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If additional printed manuals are required for your shop/office location, order by part number through the factory's Parts Center.

If a retail customer needs replacement manual(s) for a specific unit, contact the factory's Customer Data Center at: 800-829-0051 or
customerdata@vermeermfg.com

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Vermeer®

*D36x50 Series II Navigator®
Horizontal Directional Drill*



Parts Manual

P1.03
SERIAL NO. 101 -
ORDER NO. 105400ZFI

HOW TO USE THE MANUAL

This manual contains illustrations and parts lists of components and assemblies which make up the machine. Each page consists of the name of the assembly or component, a figure number, reference numbers, part numbers, part names, and the quantities of the parts used.

Assembly or component name helps identify the illustration and parts list for each figure. This name also helps locate the general area of the machine where the assembly or component can be located.

Figure numbers are used to identify each assembly or component and to group these assemblies or components into major categories.

Reference numbers shown in a column refer to the numbered parts in the illustration. This ties the part in the illustration to the part number and description in the parts list.

An asterisk indicates information about the item has changed since the previous release of the parts manual. A note in the Remarks column often explains the change.

Part numbers are used to identify individual parts or part assemblies.

Part descriptions provide the name of the part, plus additional information such as dimensional specifications and what parts are grouped together to form part assemblies, which helps you identify the part(s).

Quantities listed for each figure are only for that assembly or component and not the total used per machine.

This parts manual is not intended to be a complete guide for machine service or repairs. Contact your Vermeer dealer for any of your service or technical requirements.

ORDERING PARTS

Parts for repair or replacement are available through our network of authorized dealers located throughout the world.

Use only authorized Vermeer parts for repair or replacement. Always give the serial number and

model number of the machine for which parts are being ordered. When ordering parts for component(s), which are not manufactured by Vermeer Manufacturing, also give the serial number of that component(s). Order all parts by part number, part name, and quantity needed.

UPDATING AND REORDERING MANUALS

The parts lists, illustrations, and specifications in this manual are based on the latest information available at time of publication. Your machine may have product improvements and options not yet contained in this manual.

Vermeer Manufacturing Company reserves the right to make changes at any time without notice or obligation to you.

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A copy of this manual is supplied with each machine. Additional copies are available through your dealer. When ordering additional manuals, use the reorder number listed on the front cover and the quantity needed.

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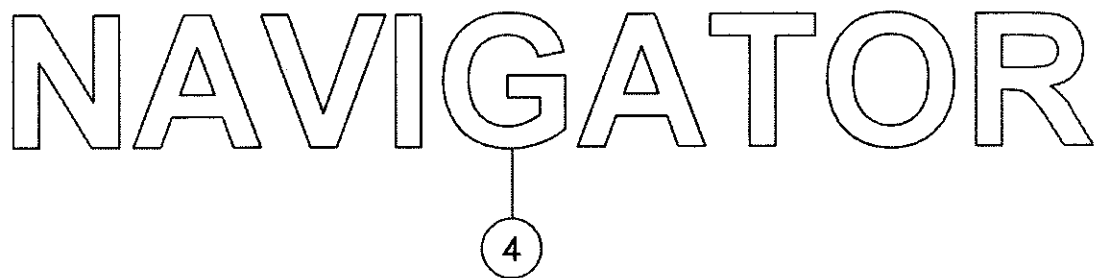
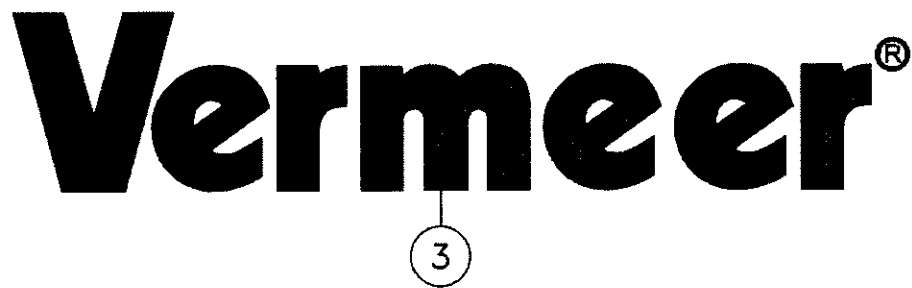
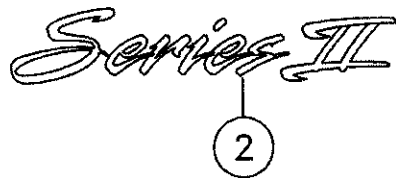
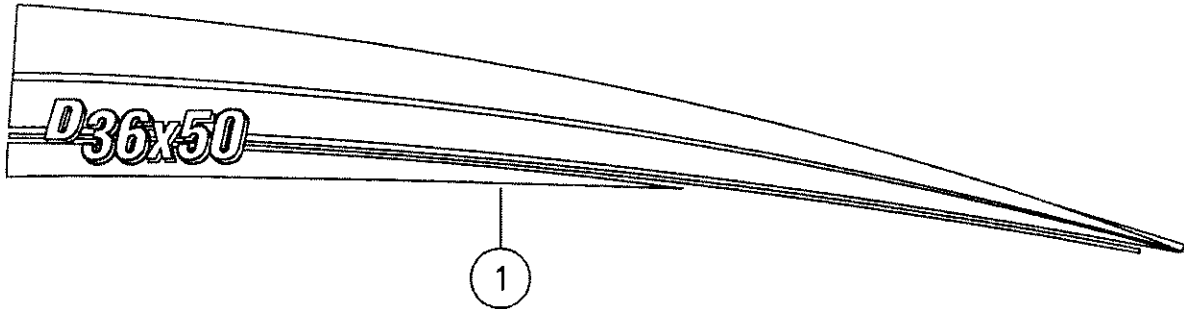
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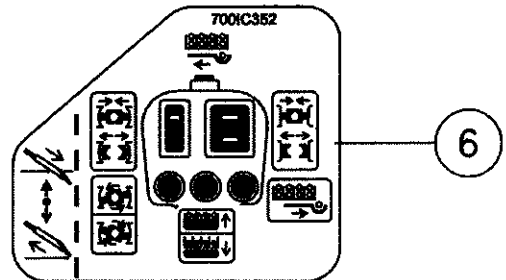
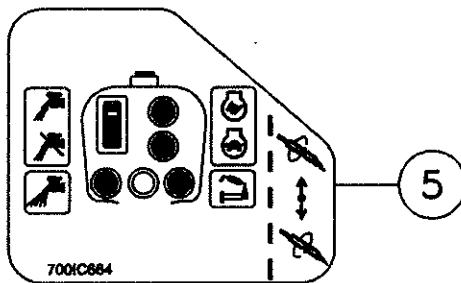
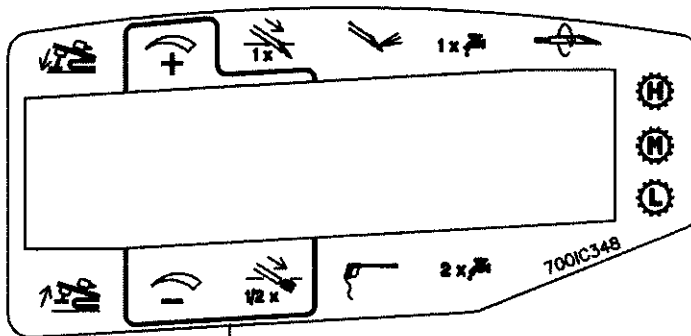
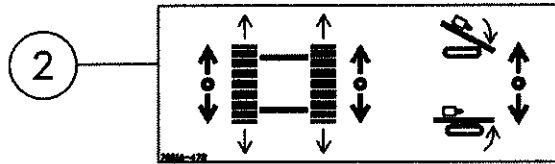
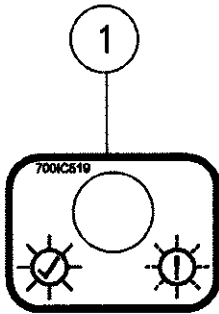
Decals - Cosmetic Fig 1-1



Decals - Cosmetic Fig 1-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000C571	DECAL - D36X50 II STRIPE	1	
2		7000C463	DECAL - SERIES II MEDIUM	1	
3		2326619	DECAL- VERMEER 3 X 15	1	
4		70000614	DECAL-MODEL NAVIGATOR (BIG)	1	

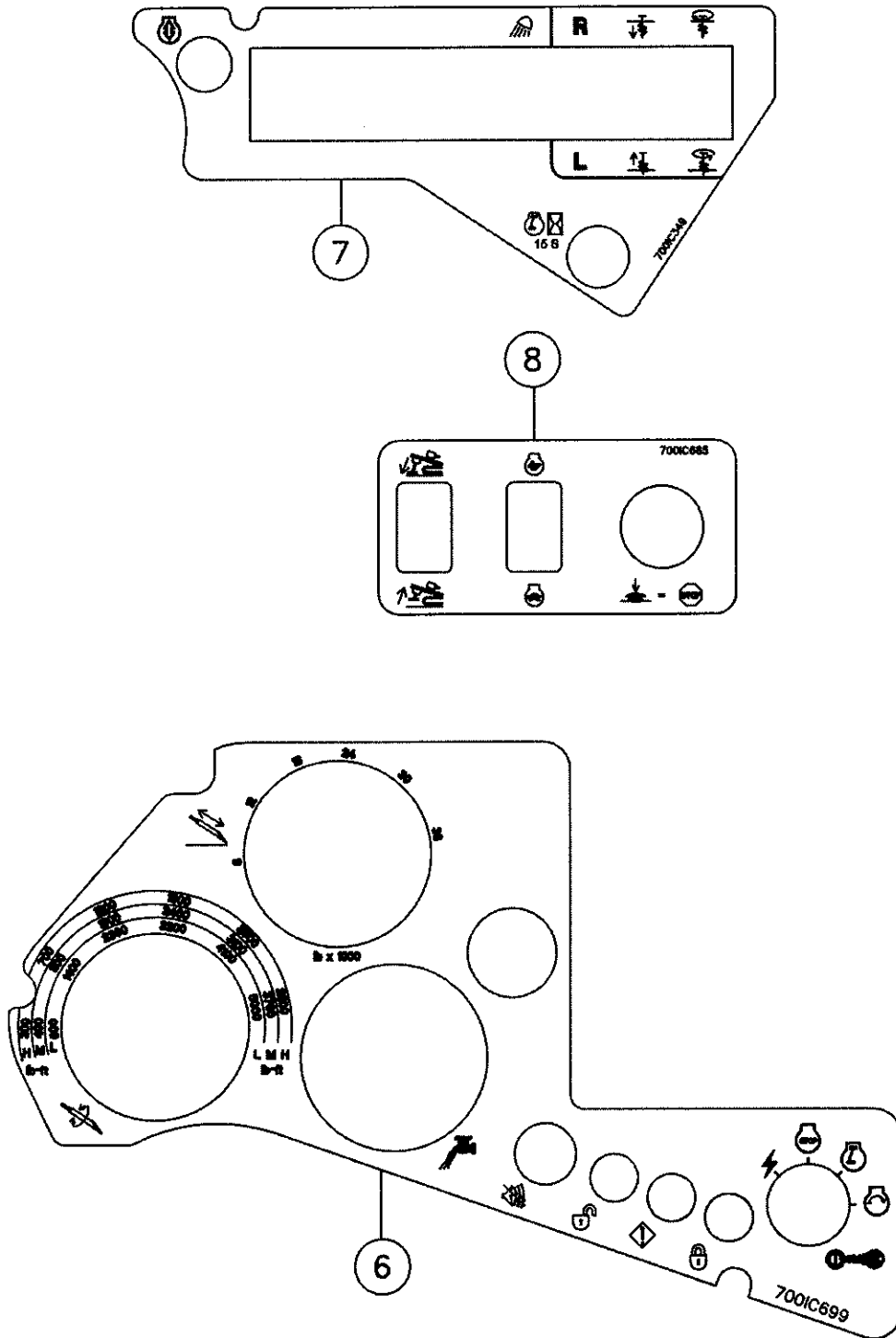
Decals - Control Fig 1-2



Decals - Control Fig 1-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		700IC519	DECAL - STRIKE ALERT GREEN LIGHT	1	
2		700IA472	DECAL-CTRL. TRACK & RACK (UG)	1	
3		700IC348	DECAL - CONTROL LEFT HAND	1	
4		700IC454	DECAL - CONTROL	1	
5		700IC664	DECAL - CONTROL LH JOYSTICK	1	
6		700IC352	DECAL - CONTROL RIGHT HAND JOYSTICK	1	

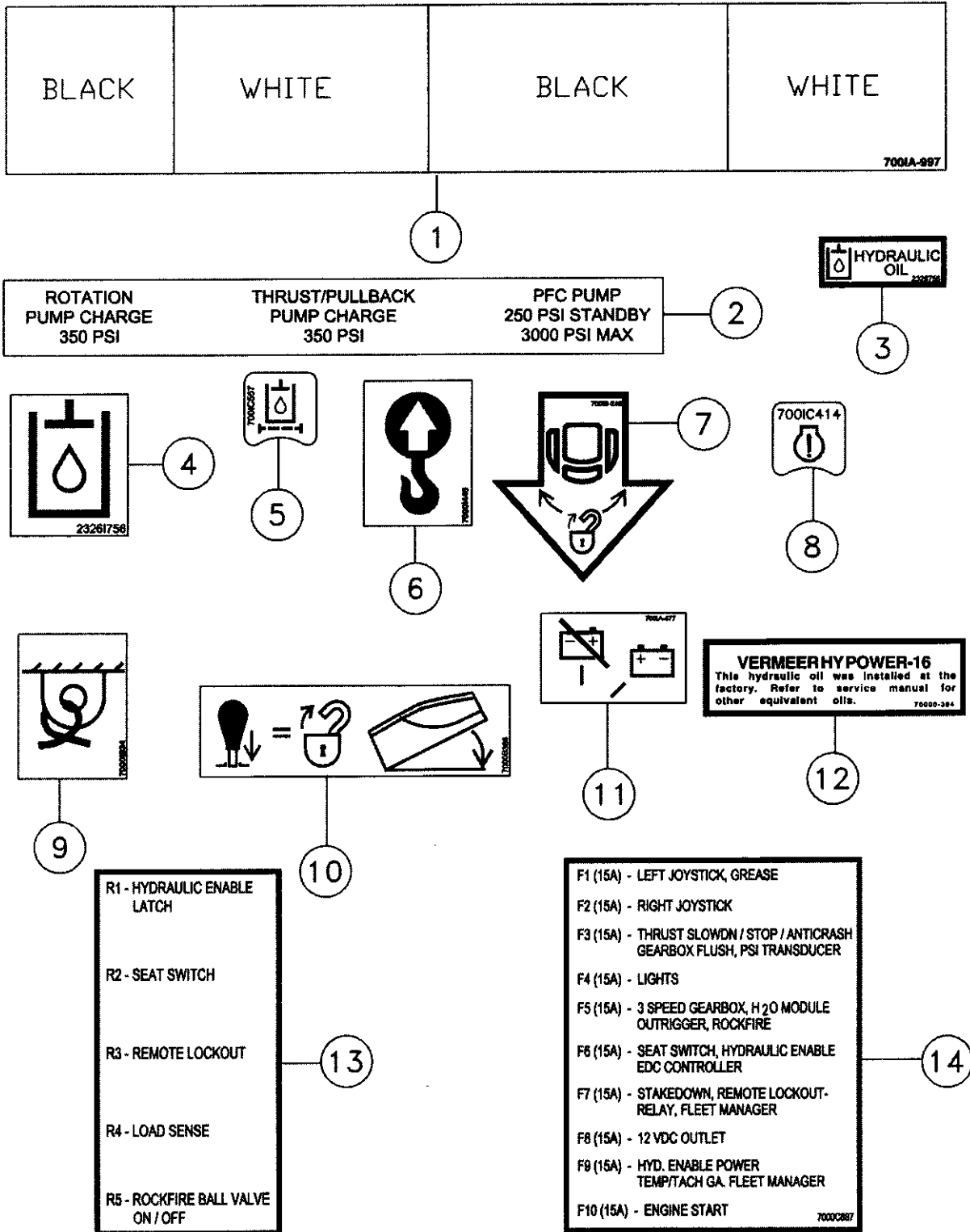
Decals - Control Fig 1-3



Decals - Control Fig 1-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		700IC349	DECAL - CONTROL RIGHT HAND LOWER	1	
2		700IC665	DECAL - CONTROL REAR TRANSPORT	1	
3		700IC699	DECAL - CONTROL RH UPPER D36X50II	1	

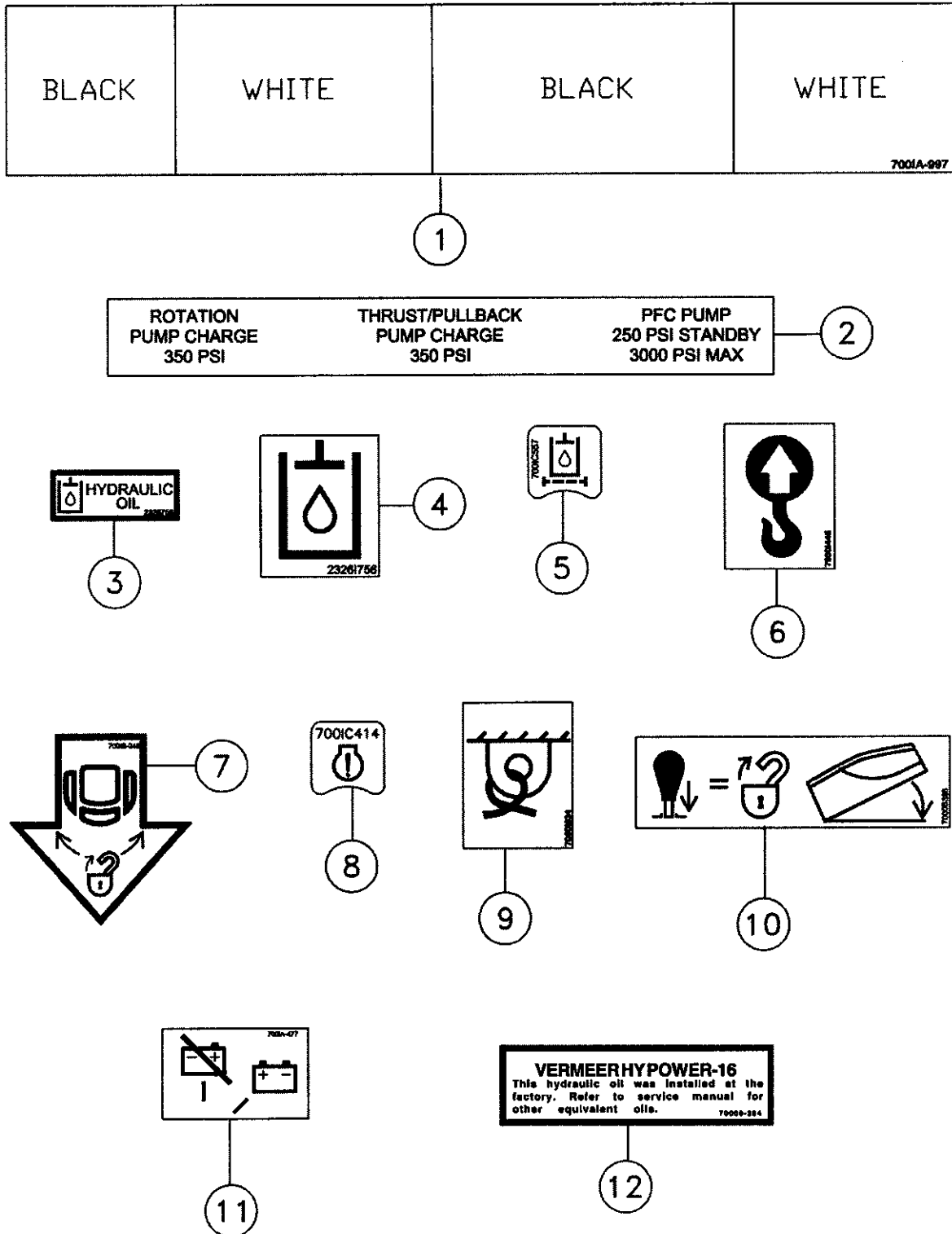
Decals - Miscellaneous Fig 1-4r01



Decals - Miscellaneous Fig 1-4r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		700IA997	DECAL - GEARBOX POSITION	1	
2		7000B300	DECAL - TEST POINT	1	
3		2326756	DECAL-HYDRAULIC OIL	1	
4		2326I756	DECAL-HYDRAULIC FLUID	1	International
5		700IC557	DECAL - HYD. FILTER WARNING LIGHT	1	
6		7000I445	DECAL-LIFT POINT	4	
7		700IB248	DECAL - PUSH	2	
8		700IC414	DECAL- ENGINE WARNING	1	
9		7000I834	DECAL - TIE DOWN POINT	7	
10		7000B388	DECAL - HOOD LATCH	1	
11		700IA477	DECAL_BATTERY SWITCH (UG)	1	
12		70000394	DECAL-VERMEER HY POWER	1	
13		7000C686	DECAL-RELAY BOX D36X50	1	
14		7000C687	DECAL-BREAKER BOX D36X50	1	

Decals - Miscellaneous Fig 1-4



Decals - Miscellaneous Fig 1-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		700IA997	DECAL - GEARBOX POSITION	1	
2		7000B300	DECAL - TEST POINT	1	
3		2326756	DECAL-HYDRAULIC OIL	1	
4		2326I756	DECAL-HYDRAULIC FLUID	1	International
5		700IC557	DECAL - HYD. FILTER WARNING LIGHT	1	
6		7000I445	DECAL-LIFT POINT	4	
7		700IB248	DECAL - PUSH	2	
8		700IC414	DECAL- ENGINE WARNING	1	
9		7000I834	DECAL - TIE DOWN POINT	7	
10		7000B388	DECAL - HOOD LATCH	1	
11		700IA477	DECAL_BATTERY SWITCH (UG)	1	
12		70000394	DECAL-VERMEER HY POWER	1	

Decals - Miscellaneous Fig 1-5r01

LUBRICANT CHART		
LOCATION	CAPACITY	TYPE
ENGINE OIL	WITH FILTER 15.5 QT (14.7L) W/O FILTER 14.0 QT (13.3L)	15W-40 HD -ROTELLA T MULTIGRADE -JOHN DEERE PLUS 50
HYDRAULIC OIL TANK	55 GAL (208L)	-VERMEER HYPOPOWER 48 -VERMEER HYPOPOWER 68 -VERMEER HYPOPOWER 100
DRILL FLUID PUMP CRANKCASE	4.5 QT (4.3L)	SAE-40 -VERMEER XTRAGOLD 40
ENGINE RADIATOR	8.0 GAL (30.3L)	MIX 50% WATER AND 50% ETHYLENE GLYCOL BASE ANTIFREEZE TO -34° F (-37°C) PROTECTION
SYSTEM ANTIFREEZE TANK	5 GAL (18.9L)	RV ANTIFREEZE
TRACK PLANETARIES	HALF FULL	ALL PURPOSE GEAR LUBE 80W-90

See Operator's Manual for detailed instructions. 7000C461

1

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Notice • Avis • Hinweis • Avviso • Aviso • 告示

If you purchased this product as used equipment, you can receive a FREE Operator's Manual by contacting:
 Si vous avez acheté cet équipement d'occasion, vous pouvez recevoir un manuel de l'opérateur GRATUIT en composant le :

Wenn Sie diese Maschine gebraucht erworben haben, können Sie eine KOSTENLOSE Betriebsanleitung wie folgt anfordern:

Se si è comprato la presente macchina usata, si può ricevere una copia del manuale dell'operatore IN OMAGGIO, contattando:

Si este producto que ha comprado es un equipo usado, puede recibir un manual del operador GRATUITO llamando al:

如果您所购买的机器是二手，您可以通过下列地址索取一本免费的中文手册：

Vermeer Manufacturing Company
ATTN: Customer Data Department
 1210 Vermeer Road East, PO BOX 320
 Pella, Iowa 50218 USA
 800-828-0001 or 319-248-9141
 Telephone: English speaking only
 Téléphone: en anglais uniquement
 Telefon: Nur in Englischer Sprache
 Teléfono: sólo la comunicación en español en inglés
 Telefon: en inglés solamente
 电话: 只限英语通话

OR by completing and mailing the Used Equipment Registration Form enclosed in the Operator's Manual.
 OU en remplissant et en envoyant le formulaire d'enregistrement de l'équipement d'occasion inclus dans le manuel de l'opérateur.

ODER das in der Betriebsanleitung enthaltene Formular zur Registrierung gebrauchter Ausrüstung ausfüllen und einreichen.

OPPURE compilando e spedendo il modulo di registrazione per macchine usate, incluso il manuale dell'operatore.

O rellenando y enviando por correo el impreso de registro de equipo usado incluido en el manual del operador.

如果您通过填写并寄回随设备附带的中文手册中的设备注册表格索取手册。

88889

This product may be covered by one or more of the following patents:

AU 758,936	US 5,590,041	US 6,195,922	US 6,477,795
CA D 78,593	US 5,607,280	US 6,247,544	US 6,484,818
DE 606 11 846	US 5,611,496	US 6,289,997	US 6,491,115
DE 202 14 958.5	US 5,657,803	US 6,308,787	US 6,497,296
DE Des. 96 006 85.4	US 5,659,985	US 6,315,062	US 6,511,260
EP 772,543	US 5,687,807	US 6,332,502	US 6,516,899
EP 830,522	US 5,692,548	US 6,357,537	US 6,517,733
EP 885,343	US 5,692,549	US 6,360,830	US 6,533,046
EP 1,153,194	US 5,704,142	US 6,367,564	US 6,533,052
GB 2,053,636	US 5,720,354	US 6,374,929	US 6,554,082
HK 1015859	US 5,746,278	US 6,382,330	US 6,557,651
RU 2,158,952	US 5,768,811	US 6,389,360	US 6,577,954
US Des. 388,682	US 5,778,991	US 6,390,207	US 6,585,062
US Des. 396,837	US 5,819,859	US 6,408,952	US 6,588,516
US 4,848,423	US 5,845,689	US 6,408,954	US 6,651,755
US 5,205,181	US 5,904,210	US 6,412,715	US 6,659,202
US 5,219,380	US 5,944,121	US 6,422,495	US 6,668,946
US 5,237,888	US 5,950,942	US 6,435,286	US 6,684,538
US 5,291,964	US 6,014,996	US 6,439,319	US 6,701,647
US 5,509,220	US 6,050,350	US 6,446,365	US 6,719,069
US 5,544,055	US 6,109,367	US 6,446,889	US 6,725,579
US 5,553,407	US 6,119,376	US 6,454,025	US 6,729,050
US 5,556,253	US 6,138,932	US 6,470,976	
US 5,574,642	US 6,154,987	US 6,474,931	
US 5,588,474	US 6,161,630	US 6,474,932	

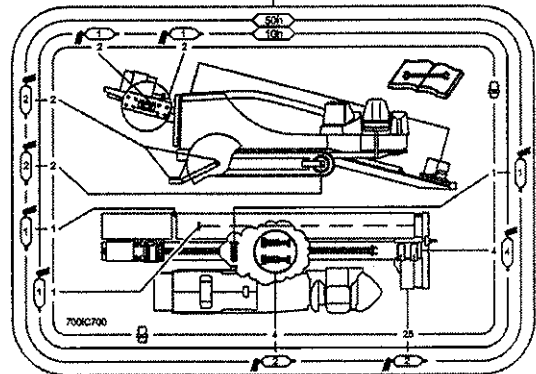
This product may be covered by one or more of the following licensed patents:

US 4,694,913	US 4,867,255	US 5,148,880
US 4,858,784	US 4,953,638	US 5,799,740

(OTHER U.S. AND FOREIGN PATENTS PENDING)

3

4



Decals - Miscellaneous Fig 1-5r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		7000C451	DECAL - FLUID CAPACITIES	1	
2		2326940	DECAL-NOTICE TO OWNERS	1	
3		7000B119	DECAL - PATENT INDUSTRIAL	1	
4		700IC700	DECAL-D36X50II GREASE CHART	1	

Decals - Miscellaneous Fig 1-5

LUBRICANT CHART		
LOCATION	CAPACITY	TYPE
ENGINE OIL	WITH FILTER 15.5 QT (14.7L) W/O FILTER 14.0 QT (13.3L)	15W-40 HD -ROTELLA T MULTIGRADE -JOHN DEERE PLUS 50
HYDRAULIC OIL TANK	55 GAL (208L)	-VERMEER HYPOWER 48 -VERMEER HYPOWER 68 -VERMEER HYPOWER 100
DRILL FLUID PUMP CRANKCASE	4.5 QT (4.3L)	SAE-40 -VERMEER XTRAGOLD 40
ENGINE RADIATOR	8.0 GAL (30.3L)	MIX 50% WATER AND 50% ETHYLENE GLYCOL BASE ANTIFREEZE TO -34° F (-37°C) PROTECTION
SYSTEM ANTIFREEZE TANK	5 GAL (18.9L)	RV ANTIFREEZE
TRACK PLANETARIES	HALF FULL	ALL PURPOSE GEAR LUBI 80W-90

See Operator's Manual for detailed instructions. 7000C41

1

2

Notice • Avis • Hinweis • Aviso • Aviso • 告示

If you purchased this product on used equipment, you can receive a FREE Operator's Manual by contacting
 Si vous avez acheté cet équipement d'occasion, vous pouvez recevoir un manuel de l'opérateur GRATUIT en composant le :
 Wenn Sie diese Maschine gekauft haben, können Sie eine KOSTENLOSHE Bedienungsanleitung von uns erhalten.
 Se el lo compraste en presente ocasión usada, al por favor una copia del manual del operador
 如果您是在現貨中購買此機器，請與我們聯繫以獲取免費的用戶手冊。

Vermeer Manufacturing Company
 ATTN: Customer Data Department
 1210 Vermeer Road East, PO BOX 200
 Pella, Iowa 50219 USA
 800-828-0871 or 841-488-0141
 Telephone: English speaking only
 Téléphone: en français uniquement
 Sprache: Nur in Englisch sprechen
 Teléfono: sólo en castellano o español en inglés
 電話: 只限英語

OR by completing and mailing the Used Equipment Registration Form enclosed in the Operator's Manual.
 OU en complétant et en envoyant le formulaire d'enregistrement de l'équipement d'occasion inclus dans le manuel de l'opérateur.
 ODER das in der Bedienungsanleitung enthaltene Formular zur Registrierung gekaufter Maschinen ausfüllen und abgeben.
 O completar e enviar el modelo de registro por maquinaria usada, anexo al manual del operador.
 如果您是在現貨中購買此機器，請與我們聯繫以獲取免費的用戶手冊。

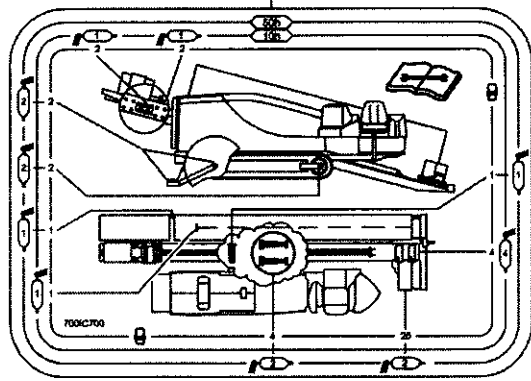
This product may be covered by one or more of the following patents:

AU 756,836	US 5,590,041	US 6,195,922	US 6,477,795
CAD 78,583	US 5,607,280	US 6,247,544	US 6,484,818
DE 896 11 846	US 5,611,496	US 6,289,997	US 6,491,115
DE 202 14 989.5	US 5,657,803	US 6,308,787	US 6,497,296
DE Des. 96 006 86.4	US 5,659,985	US 6,315,062	US 6,511,260
EP 772,543	US 5,687,807	US 6,332,502	US 6,516,899
EP 830,522	US 5,692,548	US 6,357,537	US 6,517,733
EP 885,343	US 5,692,549	US 6,360,830	US 6,533,046
EP 1,153,194	US 5,704,142	US 6,367,564	US 6,533,052
GB 2,053,636	US 5,720,354	US 6,374,928	US 6,594,082
HK 1015859	US 5,746,278	US 6,382,330	US 6,577,954
RU 2,158,952	US 5,768,811	US 6,389,360	US 6,585,062
US Des. 308,682	US 5,778,991	US 6,390,207	US 6,588,516
US Des. 396,837	US 5,819,859	US 6,408,954	US 6,581,755
US 4,848,423	US 5,845,689	US 6,408,954	US 6,651,755
US 5,205,181	US 5,904,210	US 6,412,715	US 6,659,202
US 5,219,380	US 5,944,121	US 6,422,495	US 6,668,946
US 5,237,888	US 5,950,942	US 6,435,286	US 6,684,538
US 5,291,964	US 6,014,996	US 6,439,319	US 6,701,647
US 5,509,220	US 6,050,350	US 6,446,365	US 6,719,069
US 5,544,055	US 6,109,367	US 6,446,889	US 6,725,579
US 5,553,407	US 6,119,376	US 6,454,025	US 6,729,050
US 5,556,253	US 6,138,932	US 6,470,976	
US 5,574,642	US 6,154,987	US 6,474,931	
US 5,588,474	US 6,161,630	US 6,474,932	

This product may be covered by one or more of the following licensed patents:
 US 4,694,913 US 4,867,255 US 5,148,880
 US 4,858,704 US 4,953,638 US 5,799,740
 (OTHER U.S. AND FOREIGN PATENTS PENDING)

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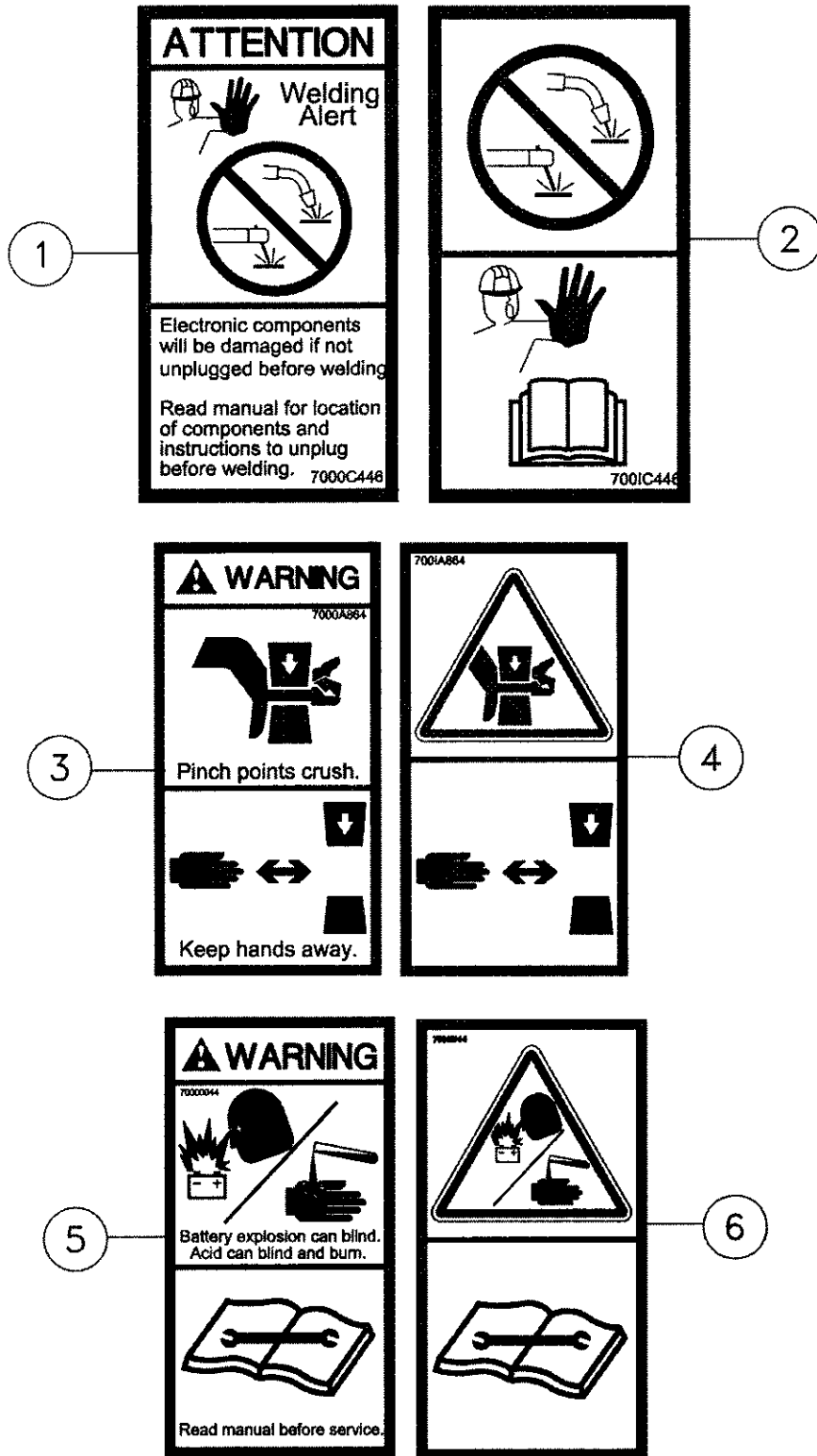
4



Decals - Miscellaneous Fig 1-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000C451	DECAL - FLUID CAPACITIES	1	
2		2326940	DECAL-NOTICE TO OWNERS	1	
3		7000B119	DECAL - PATENT INDUSTRIAL	1	

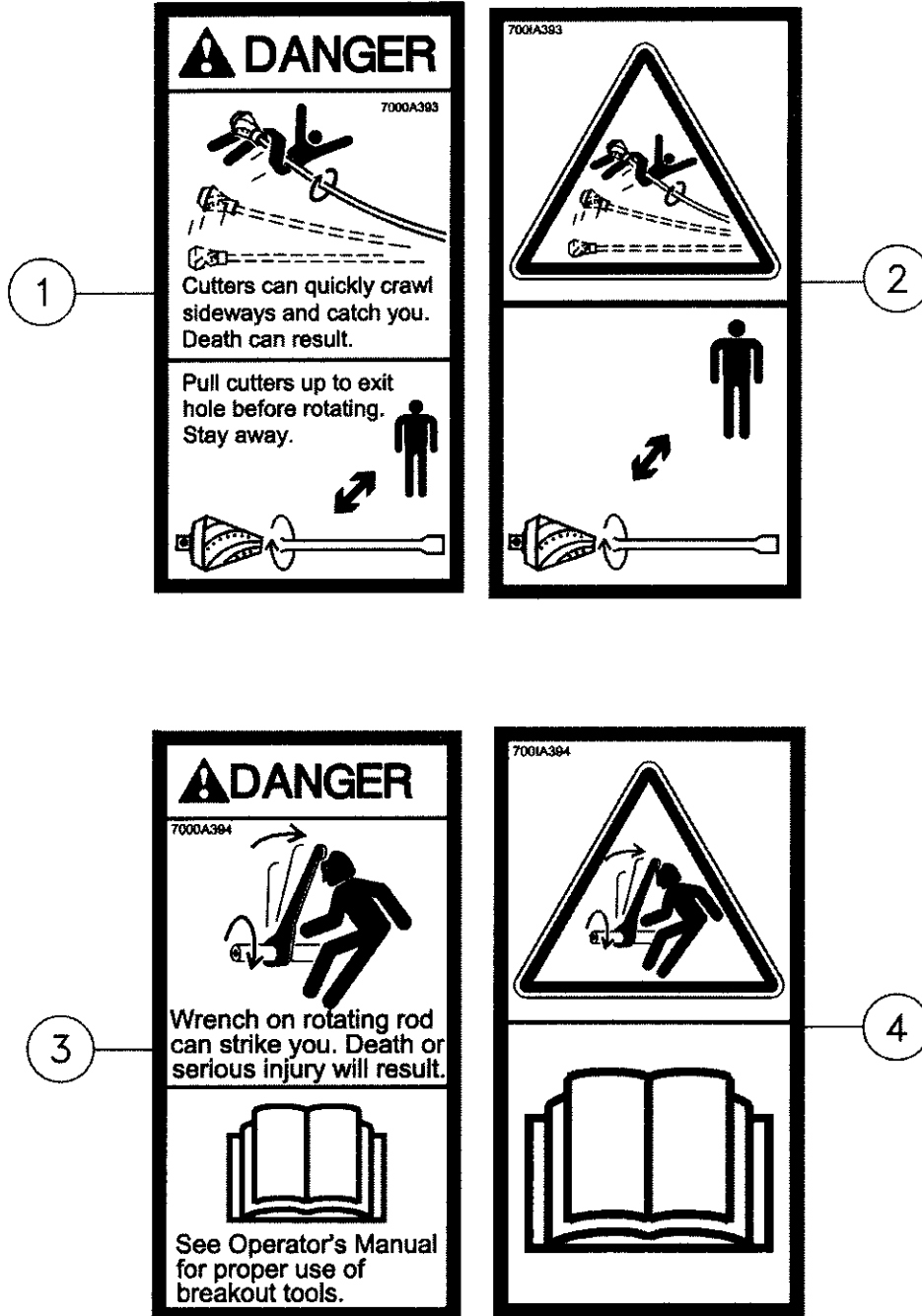
Decals - Safety Fig 1-6



Decals - Safety Fig 1-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000C446	DECAL - NO WELD	4	Domestic
2		700IC446	DECAL - NO WELD	4	International
3		7000A864	DECAL-WARNING DOMESTIC	2	Domestic
4		700IA864	DECAL-WARNING INTERNATIONAL	2	International
5		70000044	DECAL-WARNING(AT/UND)	1	Domestic
6		7000I044	DECAL-WARNING	1	International

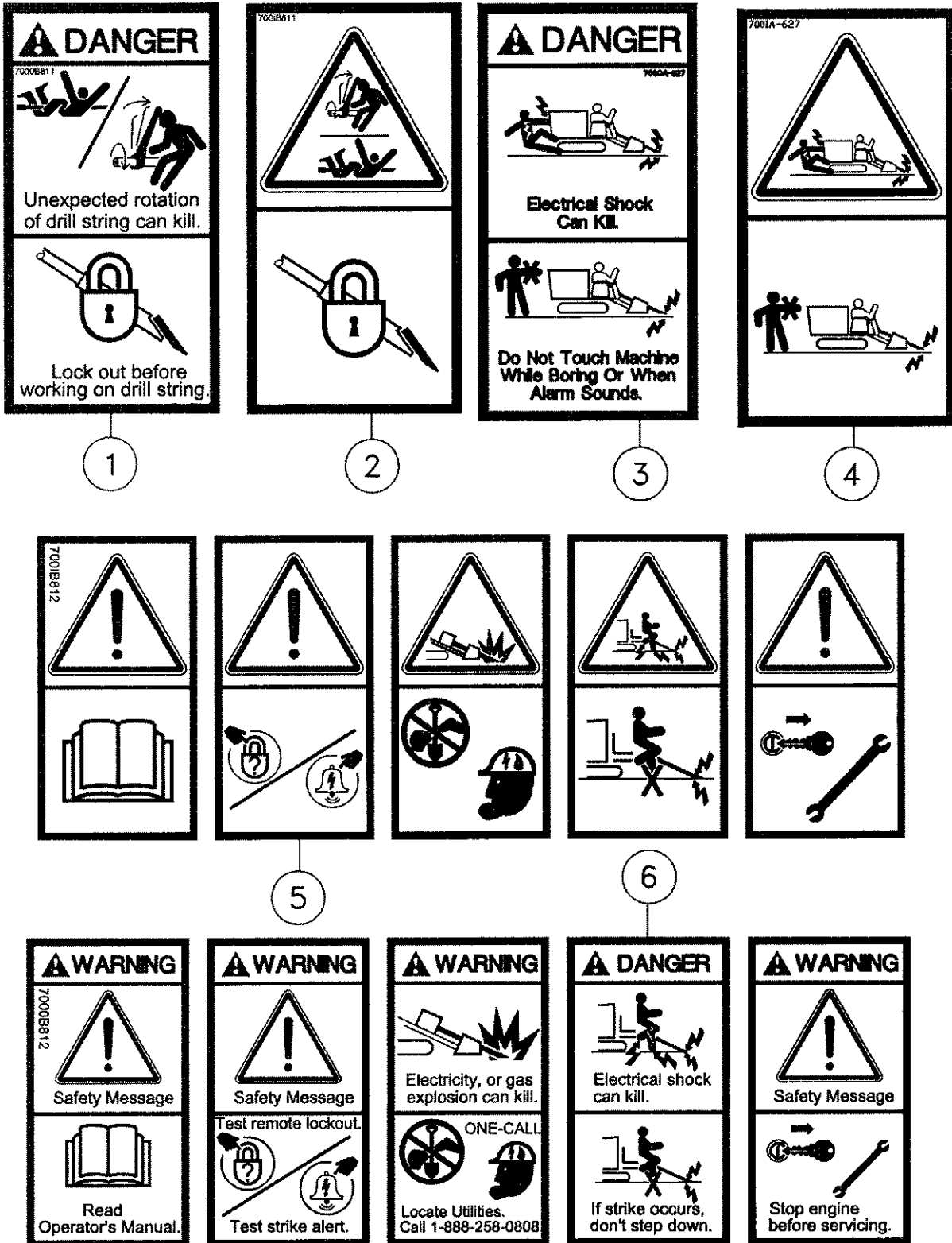
Decals - Safety Fig 1-7



Decals - Safety Fig 1-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000A393	DECAL - DANGER	1	Domestic
2		700IA393	DECAL - DANGER	1	International
3		7000A394	DECAL - WARNING	1	Domestic
4		700IA394	DECAL - WARNING	1	International

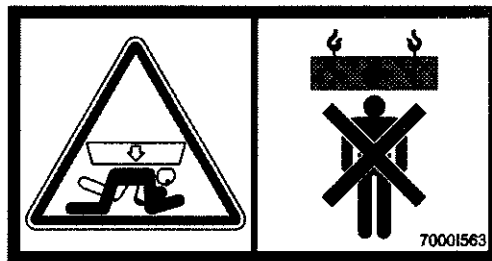
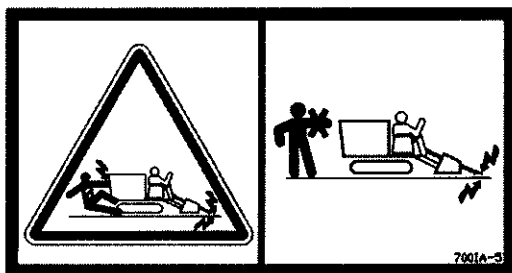
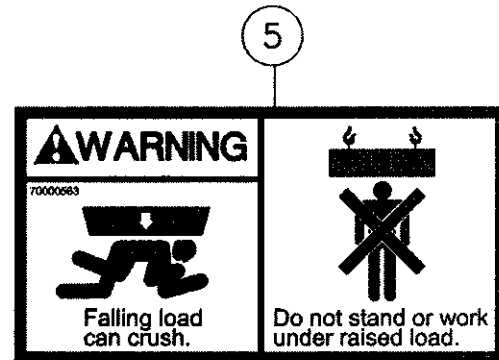
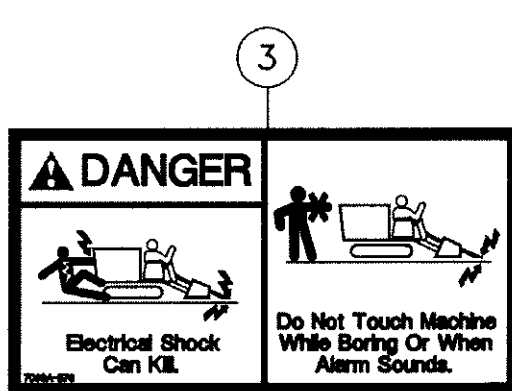
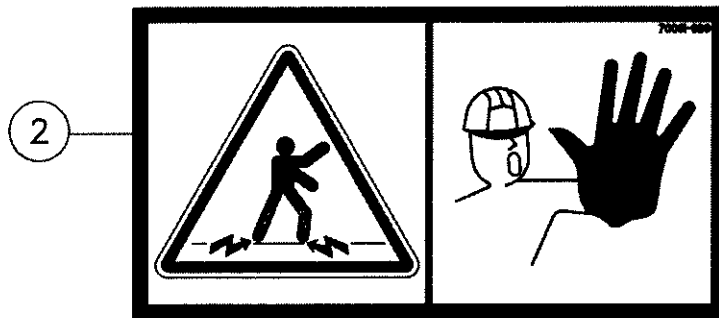
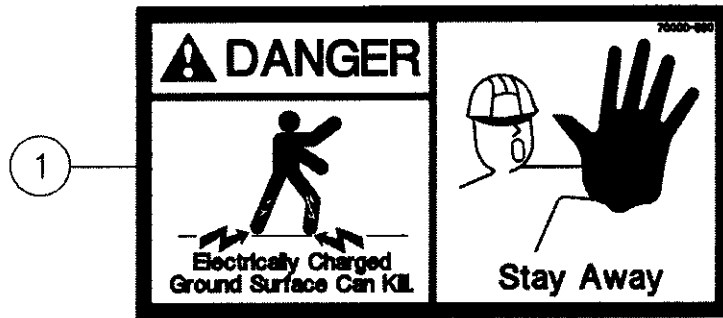
Decals - Safety Fig 1-8



Decals - Safety Fig 1-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000B811	DECAL - DANGER - REMOTE LOCK OUT	1	Domestic
2		700IB811	DECAL - DANGER - REMOTE LOCK OUT	1	International
3		7000A627	DECAL-DANGER	5	Domestic
4		700IA627	DECAL-DANGER	5	International
5		700IB812	DECAL - WARNING	1	International
6		7000B812	DECAL - WARNING	1	Domestic

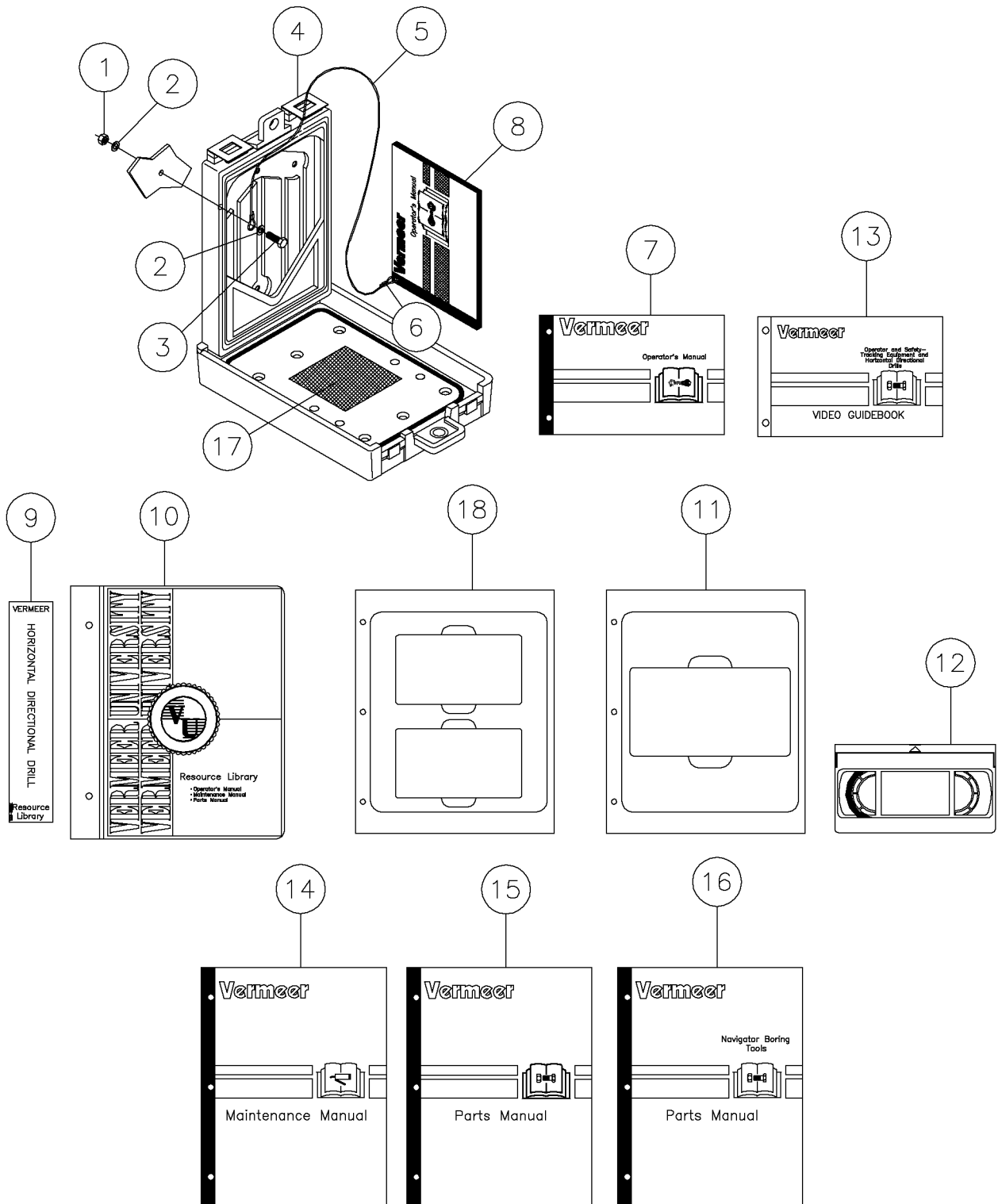
Decals - Safety Fig 1-9



Decals - Safety Fig 1-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		70000530	DECAL-DANGER	4	Domestic
2		7000I530	DECAL-WARNING (NAVIGATORS)	4	International
3		7000A576	DECAL-DANGER	1	Domestic
4		700IA576	DECAL-DANGER	1	International
5		70000563	DECAL-WARNING (UND)	4	Domestic
6		7000I563	DECAL-WARNING (UND)	4	International

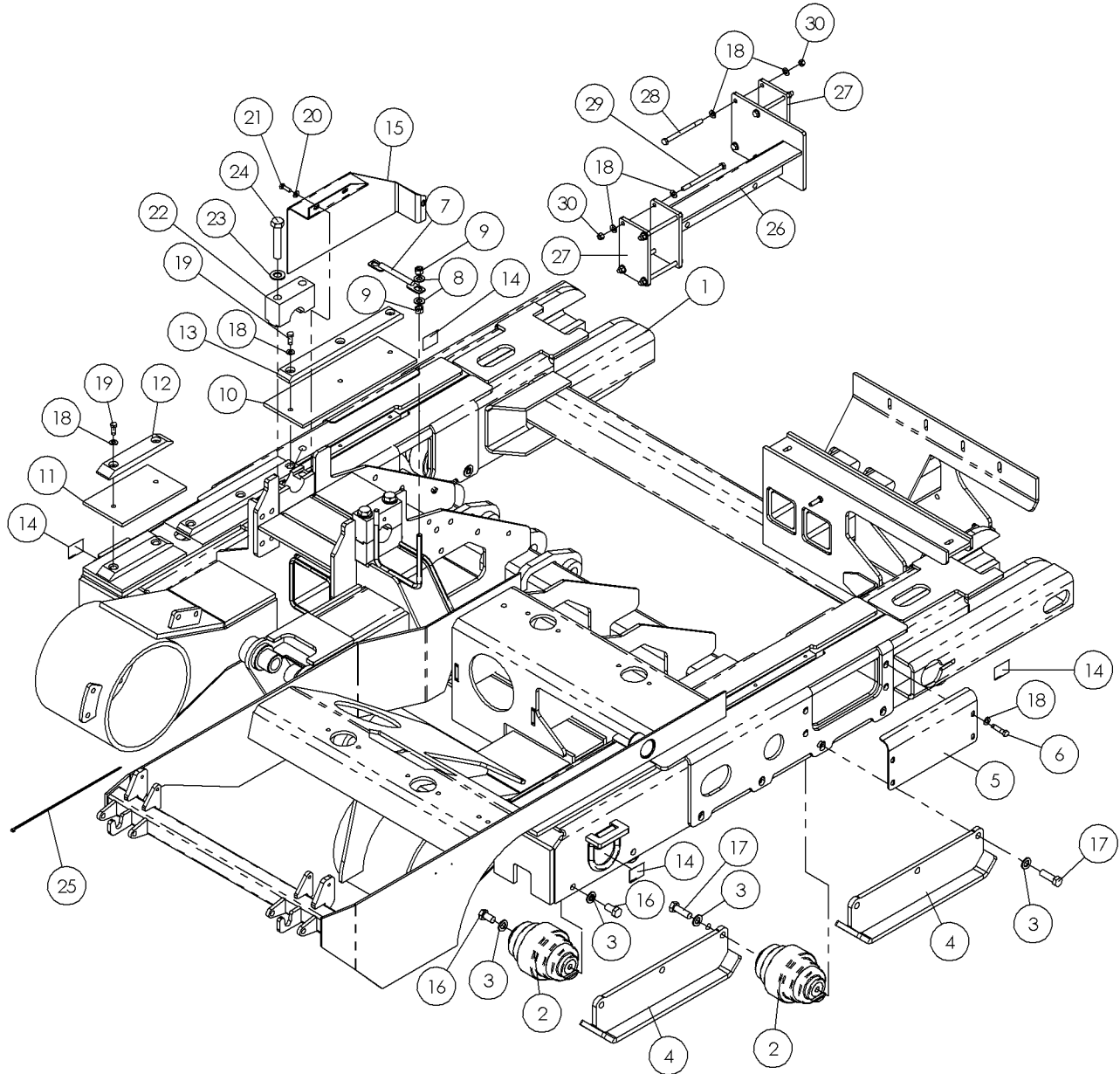
Resource Library Fig 1-10



Resource Library Fig 1-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		248198001	NUT-1/4 - 20 GR8 TOP LOCK ZINC	3	
2		235716001	WASHER - FLATSTRL - .25 -.28 X .63 - .06 - CZ	3	
3		235733001	BOLT-1/4-20X1/2 GR8 ZINC PLTD	3	
4		142410001	CASE-6"X9 XCX X1" OPERATOR MANUAL	1	
5		142954001	CABLE-.068DIA.NYLON CT.-36.00	1	
6		142423001	CRIMP-CABLE (FOR.068DIA.CABLE)	2	
7		105400X92	OM-D36X50 II (EN) o1.00	1	
8		296260950	D36X50 II CABLED MINI MANUAL ASSEMBLY	1	Inc. Ref. 5 & 6
9		7000B222	DECAL -HORIZONTAL DRILL - RESOURCE LIB.	1	
10		144144001	NOTEBOOK BINDER - 2"-3 XCX	1	
11		144145001	VHS - HOLDER	1	
12		251803001	VIDEO - DRILL ROD OPERATION AND MAINTENANCE	1	
		296264887	VIDEO-OPERATIONS/SAFETY HDD&TRKNG EQUIP	1	
		296264888	VIDEO - REMOTE LOCKOUT	1	
13		105400T90	HDD OPERATIONS & SAFETY VIDEO GUIDEBOOK	1	
14		105400X94	MM-D36X50 II (EN) m1.00	1	
15		105400ZFI	D36X50 II NAVIGATOR PM	1	
16		105400T09	PM - NAVIGATOR BORING TOOLS p4.00	1	
17		2326940	DECAL-NOTICE TO OWNERS	1	
18		151815001	VHS HOLDER DOUBLE	1	

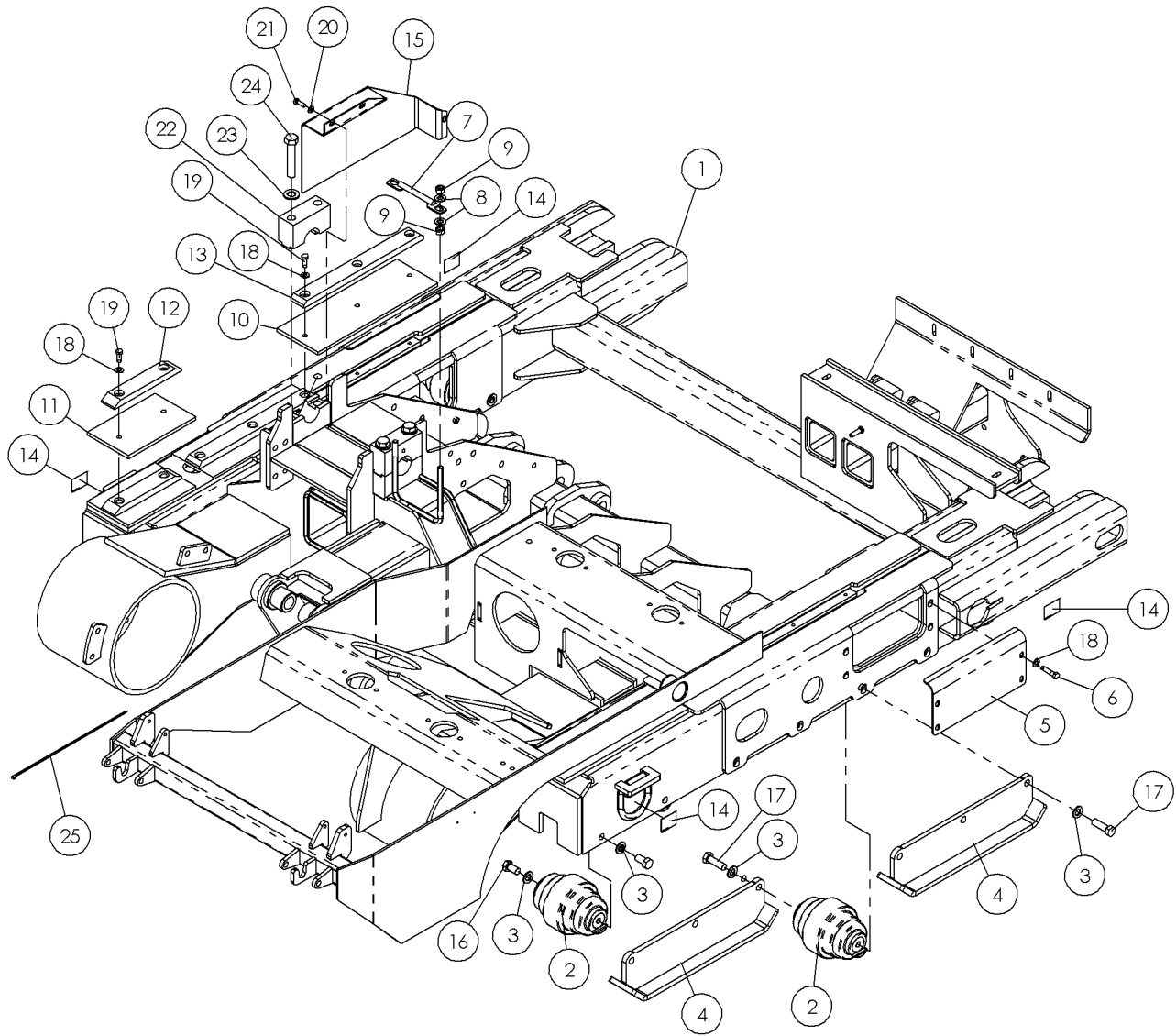
Main Frame/Track Fig 2-1r02



Main Frame/Track Fig 2-1r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		296286505	MAINFRAME UNDERCARRIAGE	1	
2		251099001	ROLLER - LOWER TRACK	14	
3		603946001	WASHER M16	28	
4		296275353	ROCK GUARD	4	
5		296279758	COVER - REINFORCED TRACK RAIL	2	
6		235723001	SCREW - HCS -.38 - 16 X 1.50 - GR8 - YZ	8	
7		285532001	ROD - HOSE LOOP COVER	1	
8		485025	WASHER-1/2 FLAT-HARDENED-YZ	4	
9		250512001	NUT- 1/2 NC Gr8 TOP LOCK Y/ ZINC	4	
10		244456001	BAR - LOWER TRACK WEAR	2	
11		296280079	BAR - LOWER TRACK WEAR	2	
12		285777001	BAR - UPPER TRACK WEAR	2	
13		244455001	BAR -UPPER TRACK WEAR	2	
14		7000i834	DECAL - TIE DOWN POINT	4	
15		296284009	SHIELD - HOSE	1	
16		251100001	BOLT-M16X2.0X30 GR10.9 HEX YZN	14	
17		508478050	SCREW-HCS,M16- 2.00X50,10.9,YZ,ISO4017,FT	12	
18		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	34	
19		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	10	
20		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	3	
21		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	3	
22		296277259	BLOCK PIVOT MOUNT TOP	2	
23		235717001	WASHER - 3/4" HARDENED FLAT YZ	4	
24		238881001	BOLT-3/4-10 X 4 HHCS GR8 ZY	4	
25		58151001	STRAP-CABLE TIE-T120R-0 15"	1	
26		296286559	WELDMENT - BATTERY BOX MOUNT	1	
27		296286560	PLATE - BATTERY MOUNT, RIGHT	2	
28		275231001	BOLT-3/8-16X5 GR8 HEX ZINC PLT	4	
29		244066001	BOLT-3/8-16X5 1/2 GD 8 ZYC	4	
30		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	8	

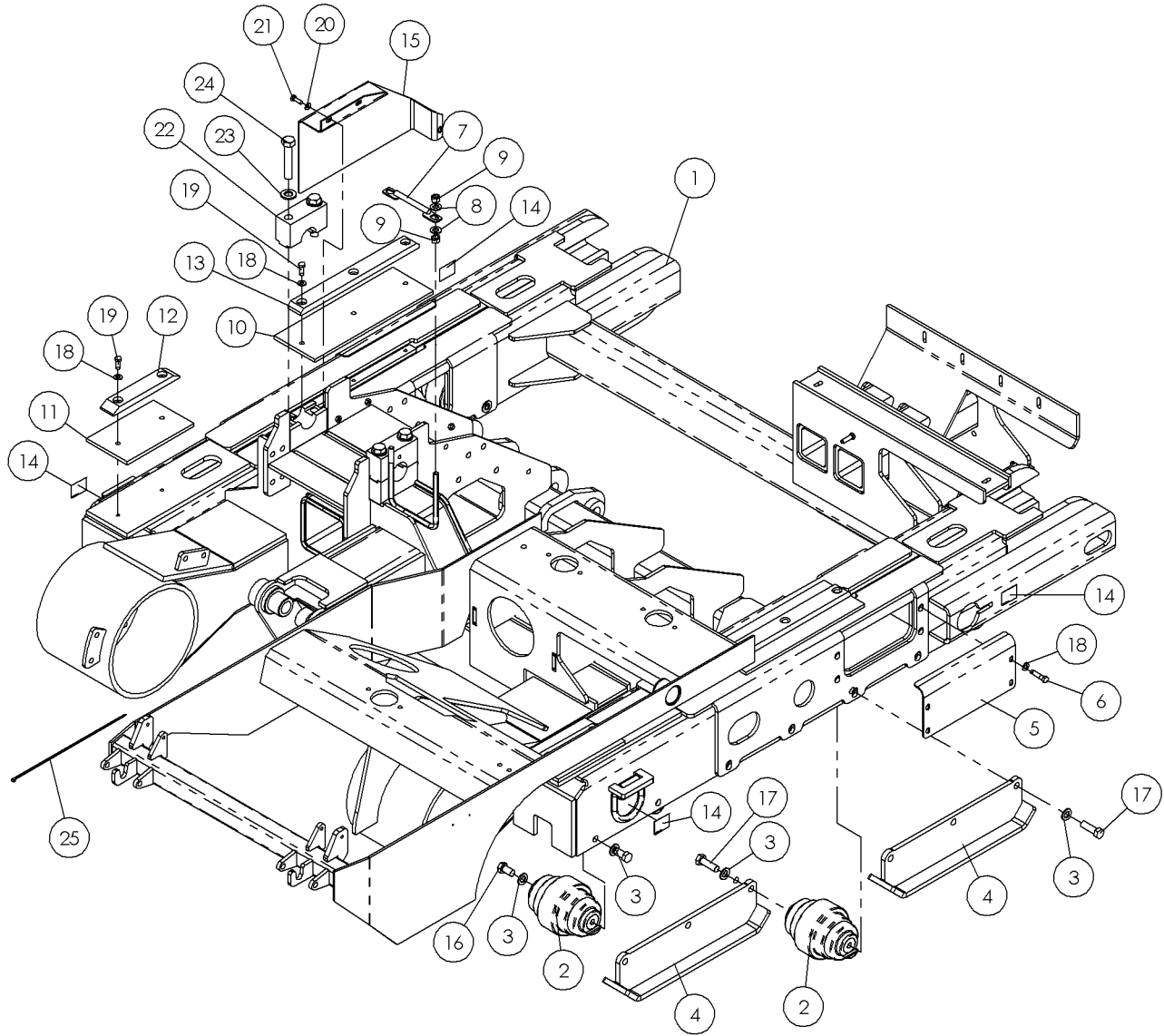
Main Frame/Track Fig 2-1r01



Main Frame/Track Fig 2-1r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296286505	MAIN FRAME - MEDIUM	1	
2		251099001	ROLLER - LOWER TRACK	14	
3		603946001	WASHER M16	28	
4		296275353	ROCK GUARD	4	
5		296279758	COVER - REINFORCED TRACK RAIL	2	
6		235723001	SCREW - HCS -.38 - 16 X 1.50 - GR8 - YZ	8	
7		285532001	ROD - HOSE LOOP COVER	1	
8		485025	WASHER-1/2 FLAT-HARDENED-YZ	4	
9		250512001	NUT- 1/2 NC Gr8 TOP LOCK Y/ ZINC	4	
10		244456001	BAR - LOWER TRACK WEAR	2	
11		296280079	BAR - LOWER TRACK WEAR	2	
12		285777001	BAR - UPPER TRACK WEAR	2	
13		244455001	BAR -UPPER TRACK WEAR	2	
14		7000i834	DECAL - TIE DOWN POINT	4	
15		296284009	SHIELD - HOSE	1	
16		251100001	BOLT-M16X2.0X30 GR10.9 HEX YZN	14	
17		508478050	SCREW-HCS,M16-2.00X50,10.9,YZ,ISO4017,FT	12	
18		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	18	
19		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	10	
20		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	3	
21		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	3	
22		296277259	BLOCK PIVOT MOUNT TOP	2	
23		235717001	WASHER - 3/4" HARDENED FLAT YZ	4	
24		238881001	BOLT-3/4-10 X 4 HHCS GR8 ZY	4	
25		58151001	STRAP-CABLE TIE-T120R-0 15"	1	

Main Frame/Track Fig 2-1

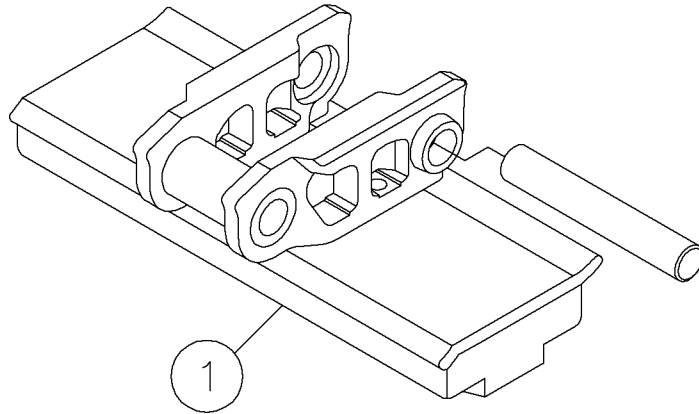


Main Frame/Track Fig 2-1

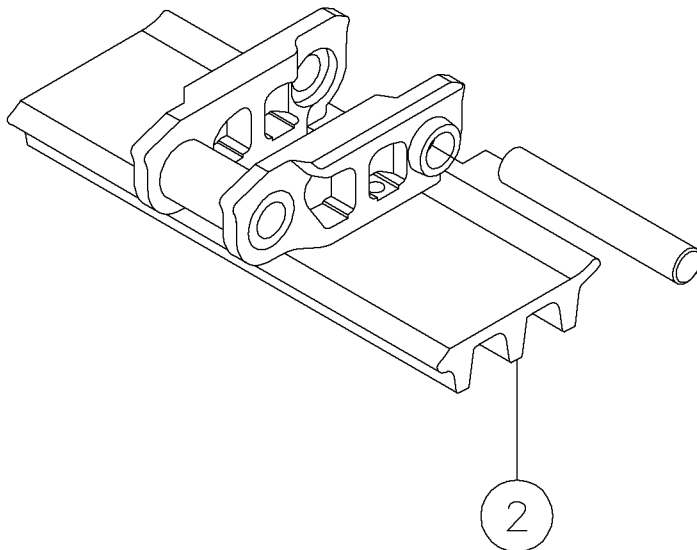
REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279951	MAINFRAME UNDERCARRIAGE	1	
2		251099001	ROLLER - LOWER TRACK	14	
3		603946001	WASHER M16	28	
4		296275353	ROCK GUARD	4	
5		296279758	COVER - REINFORCED TRACK RAIL	2	
6		235723001	SCREW - HCS -.38 - 16 X 1.50 - GR8 - YZ	8	
7		285532001	ROD - HOSE LOOP COVER	1	
8		485025	WASHER-1/2 FLAT-HARDENED-YZ	4	
9		250512001	NUT- 1/2 NC Gr8 TOP LOCK Y/ ZINC	4	
10		244456001	BAR - LOWER TRACK WEAR	2	
11		296280079	BAR - LOWER TRACK WEAR	2	
12		285777001	BAR - UPPER TRACK WEAR	2	
13		244455001	BAR -UPPER TRACK WEAR	2	
14		7000i834	DECAL - TIE DOWN POINT	4	
15		296284009	SHIELD - HOSE	1	
16		251100001	BOLT-M16X2.0X30 GR10.9 HEX YZN	14	
17		508478050	SCREW-HCS,M16- 2.00X50,10.9,YZ,ISO4017,FT	12	
18		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	18	
19		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	10	
20		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	3	
21		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	3	
22		296277259	BLOCK PIVOT MOUNT TOP	2	
23		235717001	WASHER - 3/4" HARDENED FLAT YZ	4	
24		238881001	BOLT-3/4-10 X 4 HHCS GR8 ZY	4	
25		58151001	STRAP-CABLE TIE-T120R-0 15"	1	

Steel/Rubber Tracks Fig 2-2r01

RUBBER TRACK



STEEL TRACK

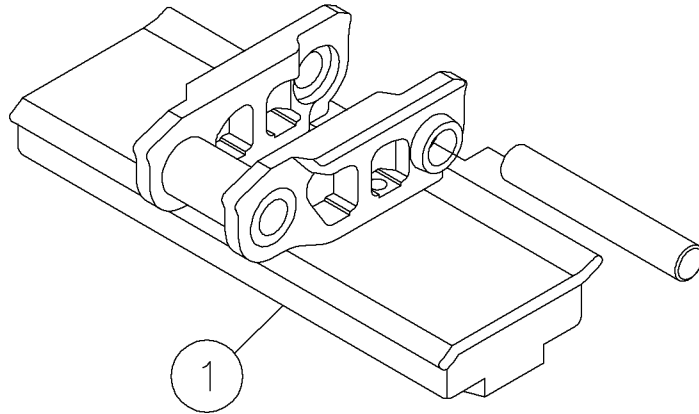


Steel/Rubber Tracks Fig 2-2r01

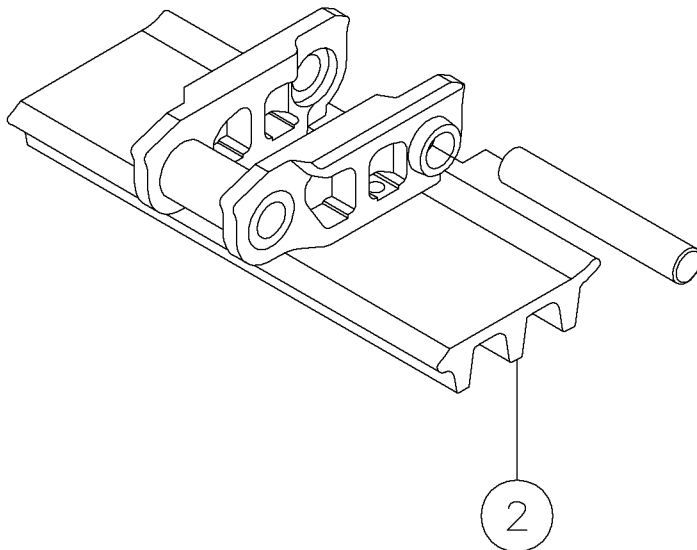
REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		251102001	TRACK - 36 SECTION RUBBER	2	
		230841001	RUBBER TRACK-25MMX400M CHAIN	36	
		230840005	PIN-MASTER	1	
		230840007	PIN-TRACK	35	
2		251103001	TRACK - 36 SECTION STEEL	2	
		230840003	SECTION-TRACK (STEEL)	36	
		230840005	PIN-MASTER	1	
		230840007	PIN-TRACK	35	

Steel/Rubber Tracks Fig 2-2

STEEL TRACK



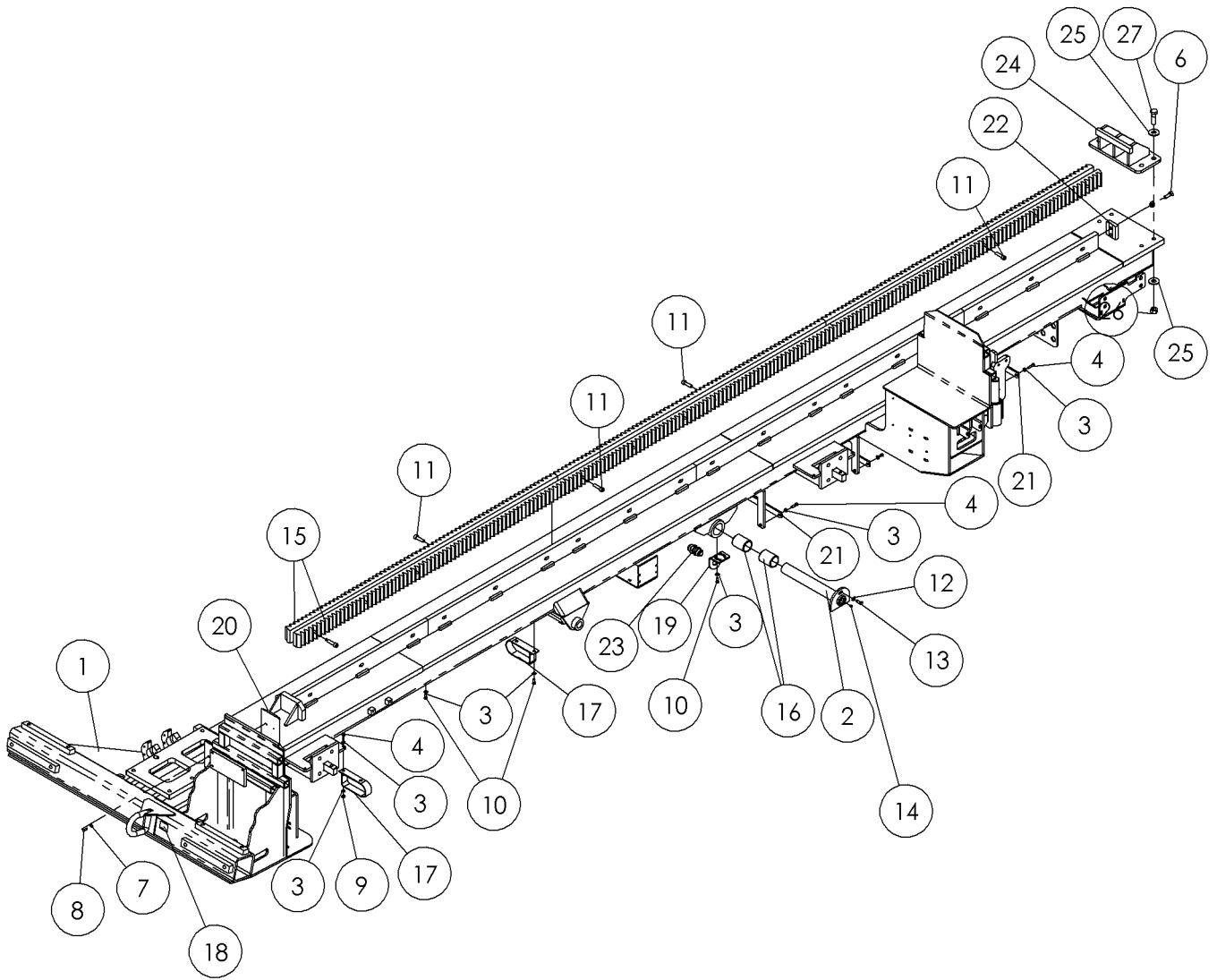
RUBBER TRACK



Steel/Rubber Tracks Fig 2-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		251102001	TRACK - 36 SECTION RUBBER	2	
		230841001	RUBBER TRACK-25MMX400M CHAIN	36	
		230840005	PIN-MASTER	1	
		230840007	PIN-TRACK	35	
2		251103001	TRACK - 36 SECTION STEEL	2	
		230840003	SECTION-TRACK (STEEL)	36	
		230840005	PIN-MASTER	1	
		230840007	PIN-TRACK	35	

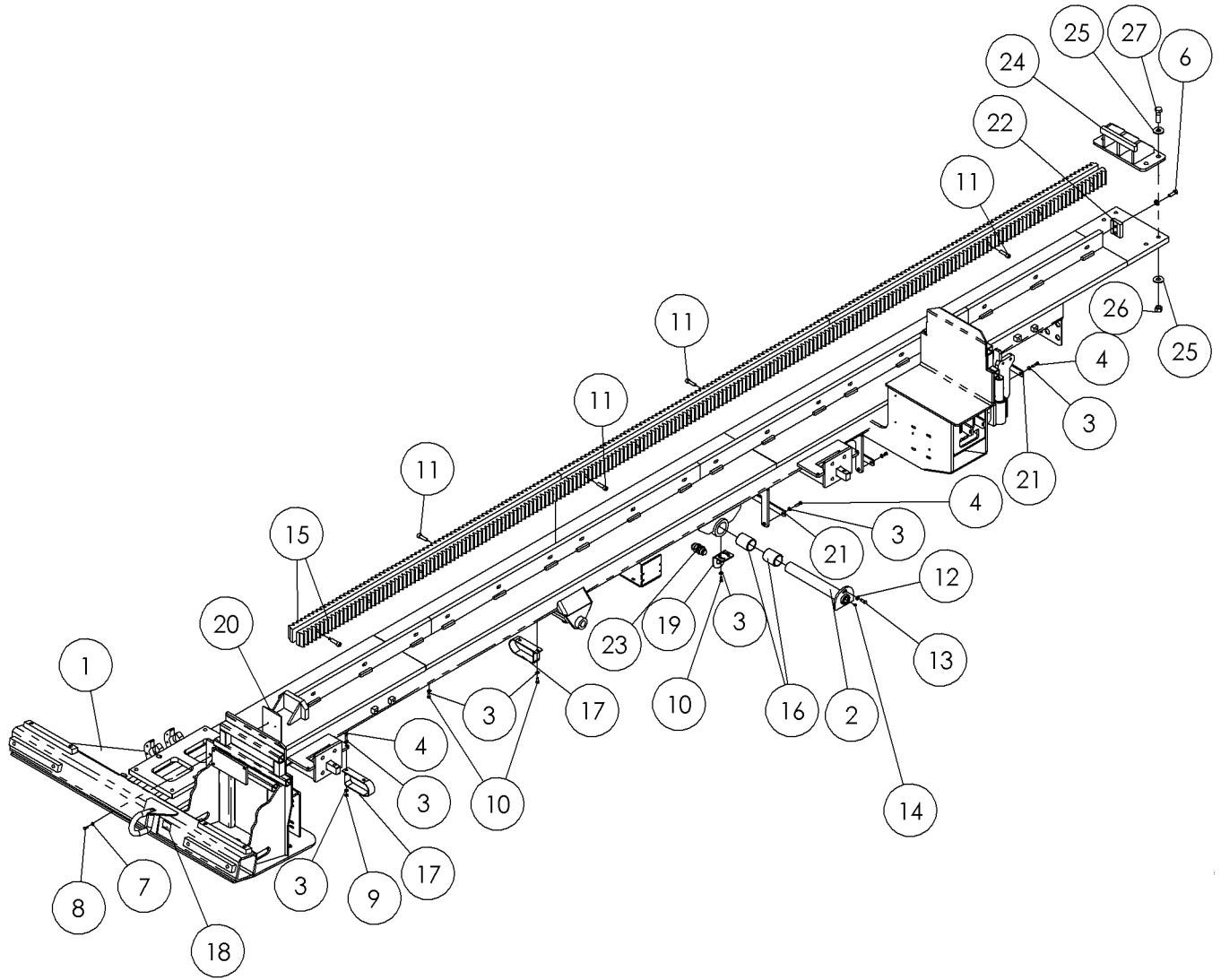
Rack - 15' Fig 2-3r02



Rack - 15' Fig 2-3r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296280154	RACK FRAME - 15'	1	
2		296275355	PIN - RACK PIVOT	1	
3		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ-A325	18	
4		248031001	SCREW-HCS-.31-18X1.25-GR8-CZ	9	
5		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	2	
6		235721001	SCREW-HCS-.50-13X1.50-GR8-YZ	2	
7		235716001	WASHER-FLATSTRL-.25-.28X.63-.06-CZ	2	
8		235734001	SCREW-HCS-.25-20X.75-GR8-YZ	2	
9		235741001	NUT-HEX-.31-18-GR8-YZ	1	
10		235742001	SCREW-HCS-.31-18X.75-GR8-YZ	8	
11		229144001	SCREW-SHCS-.50-13X1.75-GR8-PLN	18	
12		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	1	
13		235727001	SCREW-HCS-.38-16X1.00-GR8-YZ	1	
14		598001	FITTING-1/4" NF ST GREASE ZERK	1	
15		276318001	RACK - SIDE	6	
16		276336001	BUSHING - 2 3/8 OD X 2.00 ID - 3.00 CONNEX	2	
17		278902001	STRAP - DOUBLE SLEEVE HANGER	4	
18		7000i834	DECAL - TIE DOWN POINT	1	
19		296280950	TAB - BULKHEAD	1	
20		296280137	PLATE - ROD GUARD	1	
21		296284051	STRAP - HOSE SUPPORT	4	
22		277132001	CAP - RACK END	1	
23		81698001	FITTING-BHSTR-16MJ-16MJ-LN	1	
24		296280209	SUBWELD - END STOP	1	
25		510337617	WASHER-FLATSTD-.75-.81X2.00-.15-YZ	8	
26		235739001	NUT-HEX-.75-10-GR8-YZ	4	
27		238880001	SCREW-HCS-.75-10X2.50-GR8-YZ	4	

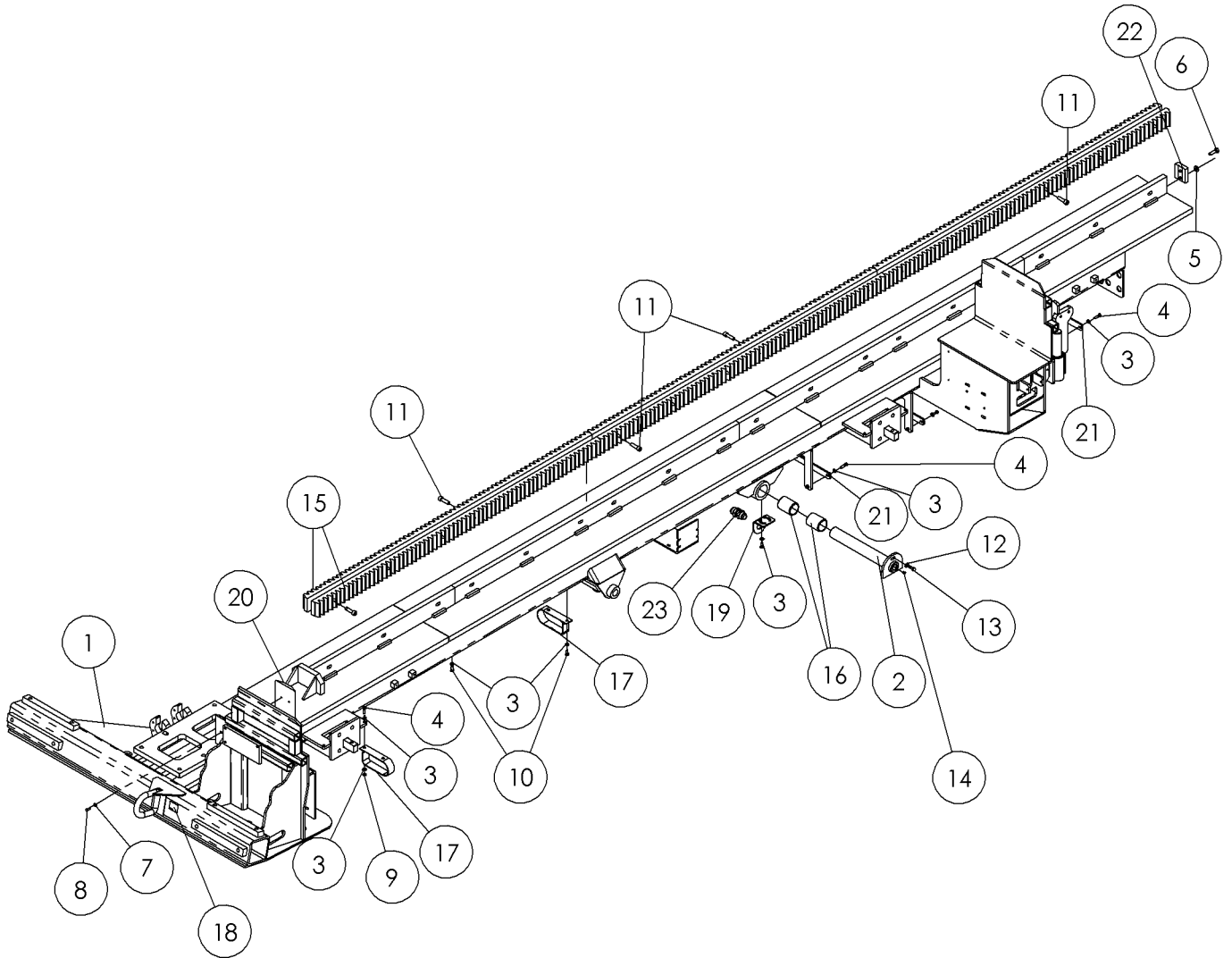
Rack - 15' Fig 2-3r01



Rack - 15' Fig 2-3r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		296280154	RACK FRAME - 15'	1	
2		296275355	PIN - RACK PIVOT	1	
3		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	18	
4		248031001	BOLT-5/16-18X1 1/4 GR8 ZYC	9	
5		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
6		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	2	
7		235716001	WASHER - FLATSTRL - .25 -.28 X .63 - .06 - CZ	2	
8		235734001	BOLT-1/4-20X3/4 GR8 ZYC	2	
9		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	1	
10		235742001	BOLT-5/16-18X3/4 GR8 ZYC	8	
11		229144001	CAPSCREW- 1/2-13 X 1 3/4SOC.HD	18	
12		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
13		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	1	
14		598001	FITTING-1/4" NF ST GREASE ZERK	1	
15		276318001	RACK - SIDE	6	
16		276336001	BSHNG-2 3/8ODX2.00ID-3.00 CNNX	2	
17		278902001	STRAP - DOUBLE SLEEVE HANGER	4	
18		7000i834	DECAL - TIE DOWN POINT	1	
19		296280950	TAB - BULKHEAD	1	
20		296280137	PLATE - ROD GUARD	1	
21		296284051	STRAP - HOSE SUPPORT	4	
22		277132001	CAP - RACK END	1	
23		81698001	FITTING-16MJIC BULKHEAD STR.	1	
24		296280209	WELDMENT - END STOP	1	
25		510337617	WASHER-FLATSTD-.75-.81X2.00-.15-YZ	8	
26		235739001	NUT-3/4-10 GR8 ZYC	4	
27		238880001	BOLT-3/4-10X2 1/2 HHCS GR8 ZY	4	

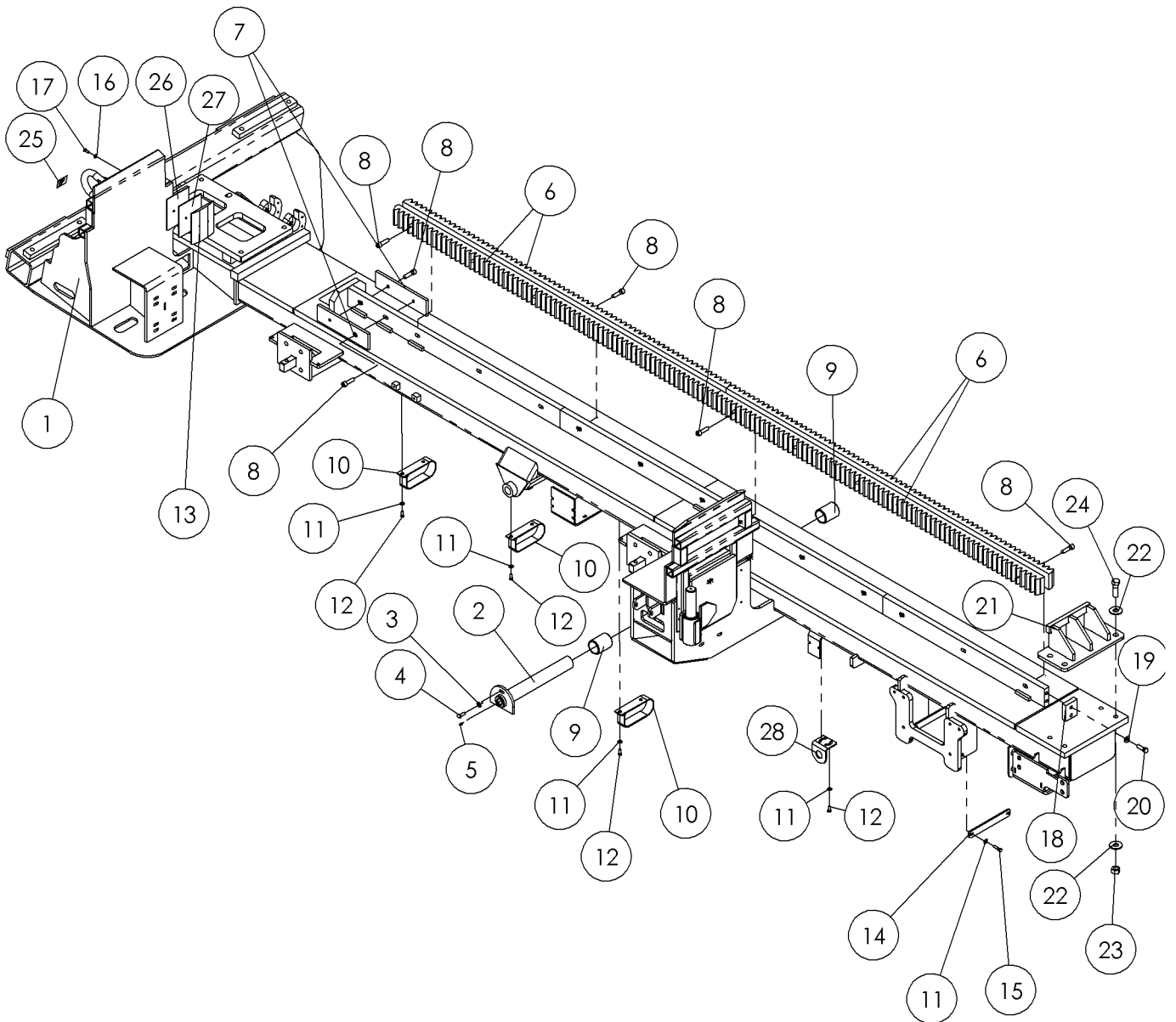
Rack - 15' Fig 2-3



Rack - 15' Fig 2-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280154	RACK FRAME - 15'	1	
2		296275355	PIN - RACK PIVOT	1	
3		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	18	
4		248031001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	9	
5		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
6		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	2	
7		235716001	WASHER - FLATSTRL - .25 -.28 X .63 - .06 - CZ	2	
8		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	2	
9		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	1	
10		235742001	BOLT-5/16-18X3/4 GR8 ZINC PLTD	8	
11		229144001	CAPSCREW- 1/2-13 X 1 3/4SOC.HD	18	
12		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
13		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1	
14		598001	FITTING-1/4" NF ST GREASE ZERK	1	
15		276318001	RACK - SIDE	6	
16		276336001	BSHNG-2 3/8ODX2.00ID-3.00 CNNX	2	
17		278902001	STRAP - DOUBLE SLEEVE HANGER	4	
18		7000i834	DECAL - TIE DOWN POINT	1	
19		296280950	TAB - BULKHEAD	1	
20		296280137	PLATE - ROD GUARD	1	
21		296284051	STRAP - HOSE SUPPORT	4	
22		277132001	CAP - RACK END	1	
23		81698001	FITTING-16MJIC BULKHEAD STR.	1	

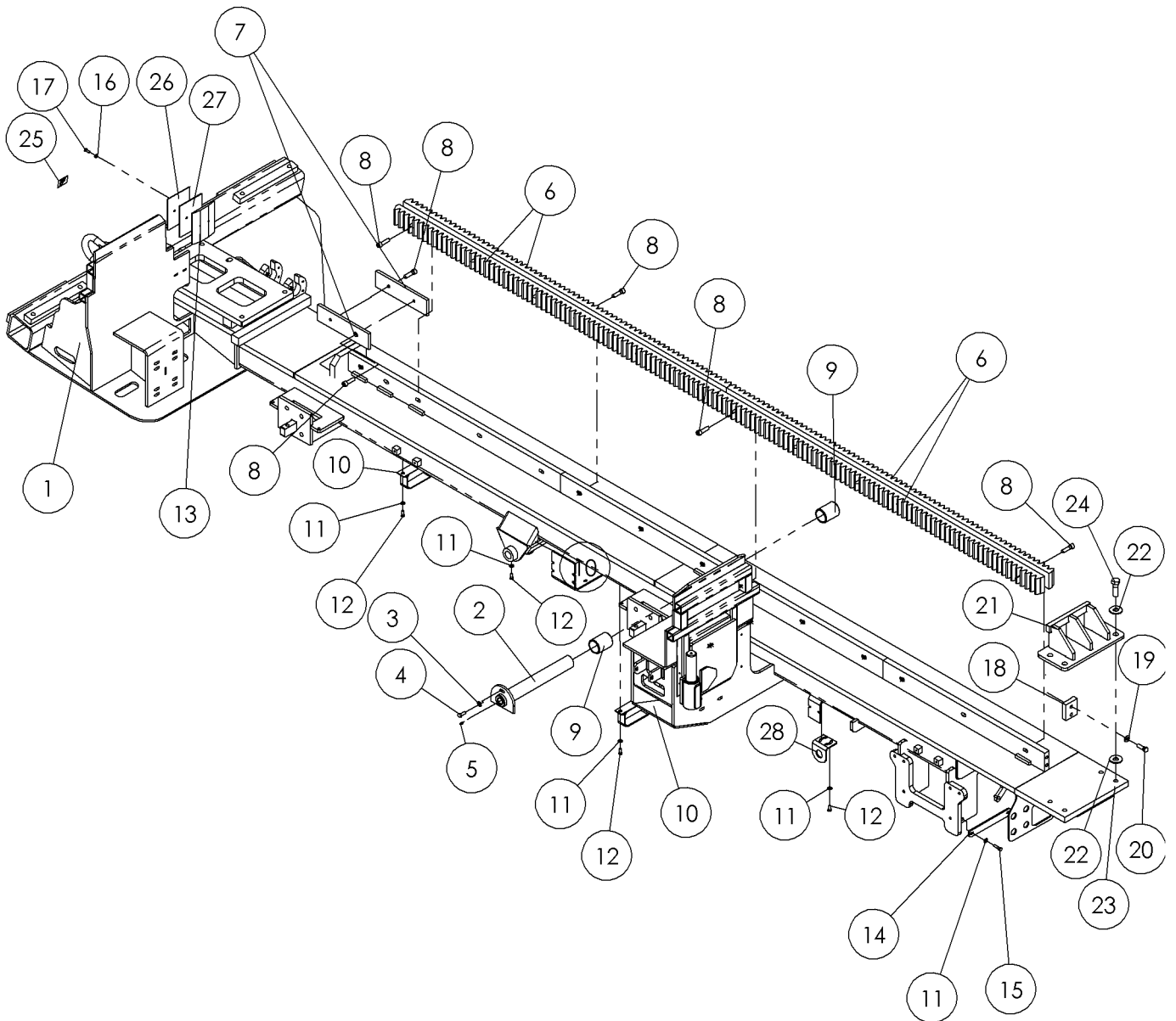
Rack - 10' Fig 2-4r03



Rack - 10' Fig 2-4r03

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296280125	WELDMENT - RACK, 10 FT, D36X50 II	1	
2		296275355	PIN - RACK PIVOT	1	
3		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
4		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	1	
5		598001	FITTING-1/4" NF ST GREASE ZERK	1	
6		276318001	RACK - SIDE	4	
7		294528001	BAR - RACK SPACER	2	
8		229144001	CAPSCREW- 1/2-13 X 1 3/4SOC.HD	14	
9		276336001	BSHNG-2 3/8ODX2.00ID-3.00 CNNX	2	
10		278902001	STRAP - DOUBLE SLEEVE HANGER	3	
11		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	12	
12		235742001	BOLT-5/16-18X3/4 GR8 ZYC	8	
13		296280137	PLATE - ROD GUARD	1	
14		296284051	STRAP - HOSE SUPPORT	2	
15		248031001	BOLT-5/16-18X1 1/4 GR8 ZYC	4	
16		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	2	
17		235734001	BOLT-1/4-20X3/4 GR8 ZYC	2	
18		277132001	CAP - RACK END	1	
19		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
20		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	2	
21		296280209	WELDMENT - END STOP	1	
22		510337617	WASHER-FLATSTD-.75-.81X2.00-.15-YZ	8	
23		235739001	NUT-3/4-10 GR8 ZYC	4	
24		238880001	BOLT-3/4-10X2 1/2 HHCS GR8 ZY	4	
25		7000i834	DECAL - TIE DOWN POINT	1	
26		296280222	PLATE - SHIM ROD GUARD	1	
27		296280223	PLATE - SHIM ROD GUARD	1	
28		296280950	TAB - BULKHEAD	1	

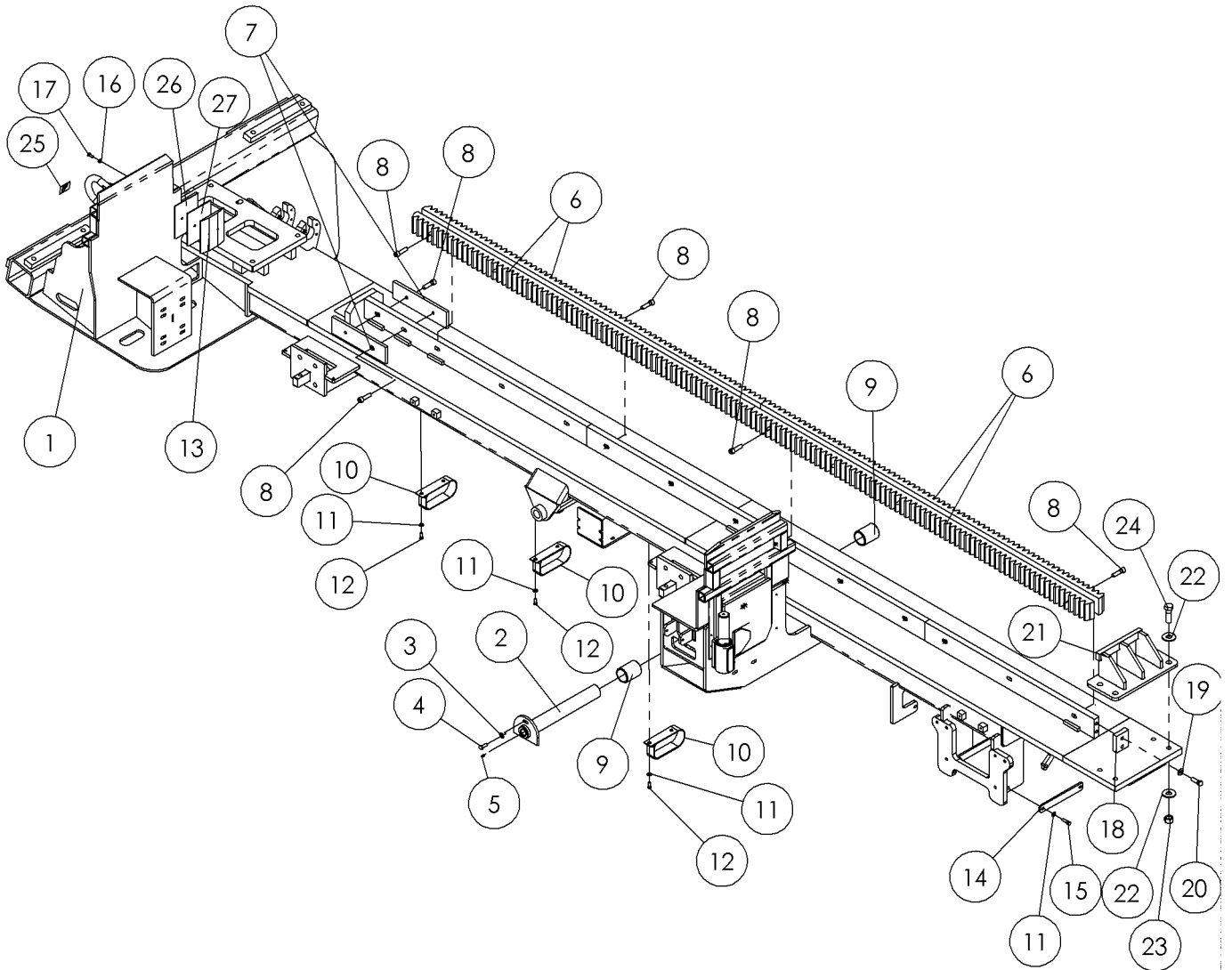
Rack - 10' Fig 2-4r02



Rack - 10' Fig 2-4r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		296280125	WELDMENT - RACK, 10 FT, D36X50 II	1	
2		296275355	PIN - RACK PIVOT	1	
3		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
4		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	1	
5		598001	FITTING-1/4" NF ST GREASE ZERK	1	
6		276318001	RACK - SIDE	4	
7		294528001	BAR - RACK SPACER	2	
8		229144001	CAPSCREW- 1/2-13 X 1 3/4SOC.HD	14	
9		276336001	BSHNG-2 3/8ODX2.00ID-3.00 CNNX	2	
10		278902001	STRAP - DOUBLE SLEEVE HANGER	3	
11		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	12	
12		235742001	BOLT-5/16-18X3/4 GR8 ZYC	8	
13		296280137	PLATE - ROD GUARD	1	
14		296284051	STRAP - HOSE SUPPORT	2	
15		248031001	BOLT-5/16-18X1 1/4 GR8 ZYC	4	
16		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	2	
17		235734001	BOLT-1/4-20X3/4 GR8 ZYC	2	
18		277132001	CAP - RACK END	1	
19		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
20		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	2	
21		296280209	WELDMENT - END STOP	1	
22		510337617	WASHER-FLATSTD-.75-.81X2.00-.15-YZ	8	
23		235739001	NUT-3/4-10 GR8 ZYC	4	
24		238880001	BOLT-3/4-10X2 1/2 HHCS GR8 ZY	4	
25		7000i834	DECAL - TIE DOWN POINT	1	
26		296280222	PLATE - SHIM ROD GUARD	1	
27		296280223	PLATE - SHIM ROD GUARD	1	
28		296280950	TAB - BULKHEAD	1	

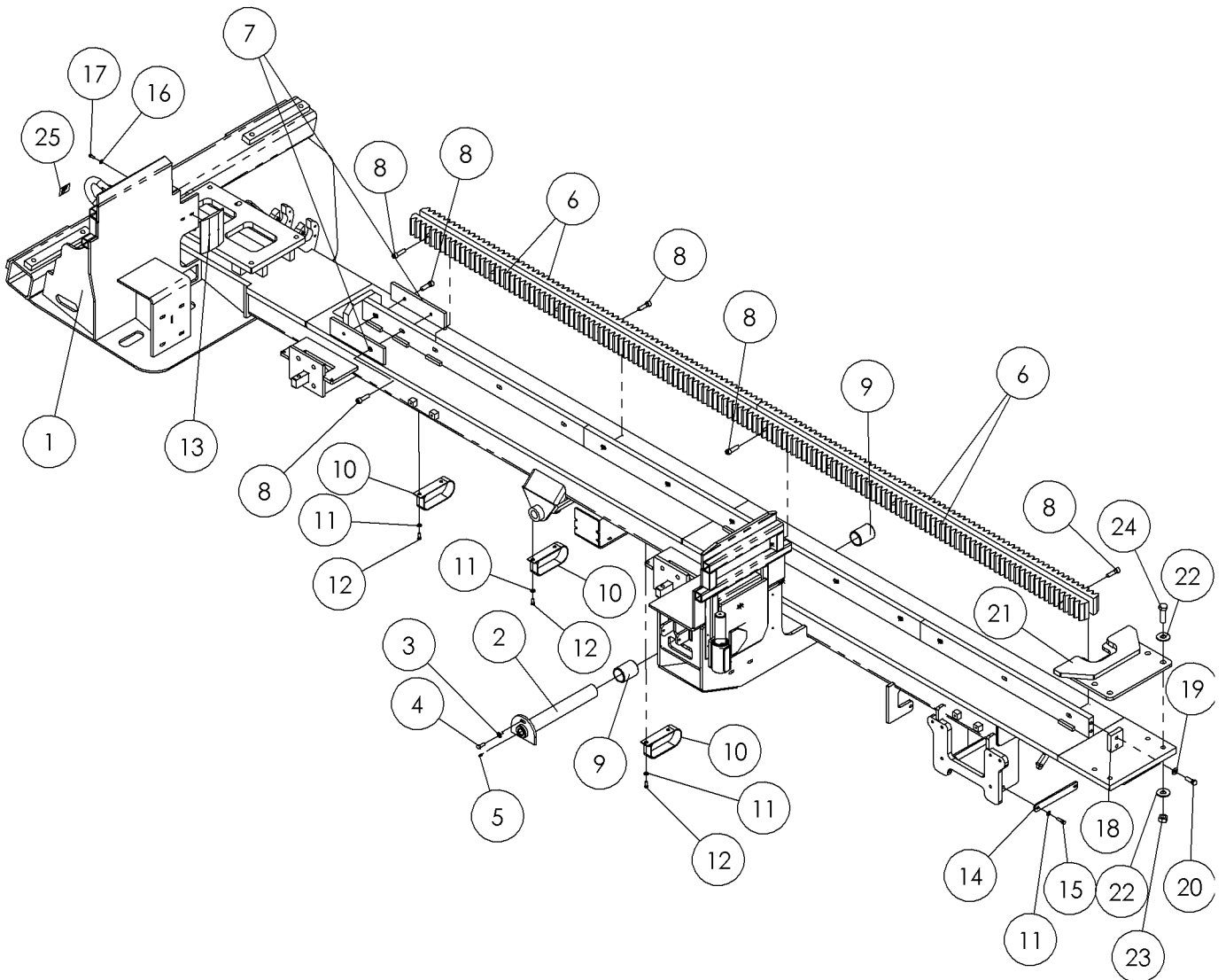
Rack - 10' Fig 2-4r01



Rack - 10' Fig 2-4r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296280125	WELDMENT - RACK, 10 FT, D36X50 II	1	
2		296275355	PIN - RACK PIVOT	1	
3		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
4		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1	
5		598001	FITTING-1/4" NF ST GREASE ZERK	1	
6		276318001	RACK - SIDE	4	
7		294528001	BAR - RACK SPACER	2	
8		229144001	CAPSCREW- 1/2-13 X 1 3/4SOC.HD	14	
9		276336001	BSHNG-2 3/8ODX2.00ID-3.00 CNNX	2	
10		278902001	STRAP - DOUBLE SLEEVE HANGER	3	
11		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	10	
12		235742001	BOLT-5/16-18X3/4 GR8 ZINC PLTD	6	
13		296280137	PLATE - ROD GUARD	1	
14		296284051	STRAP - HOSE SUPPORT	2	
15		248031001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	4	
16		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	2	
17		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	2	
18		277132001	CAP - RACK END	1	
19		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
20		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	2	
21		296280209	WELDMENT - END STOP	1	
22		510337617	WASHER-FLATSTD-.75-.81X2.00-.15-YZ	8	
23		235739001	NUT-3/4-10 GR8 ZINC PLTD	4	
24		238880001	BOLT-3/4-10X2 1/2 HHCS GR8 ZY	4	
25		7000i834	DECAL - TIE DOWN POINT	1	
26		296280222	PLATE - SHIM ROD GUARD	1	
27		296280223	PLATE - SHIM ROD GUARD	1	

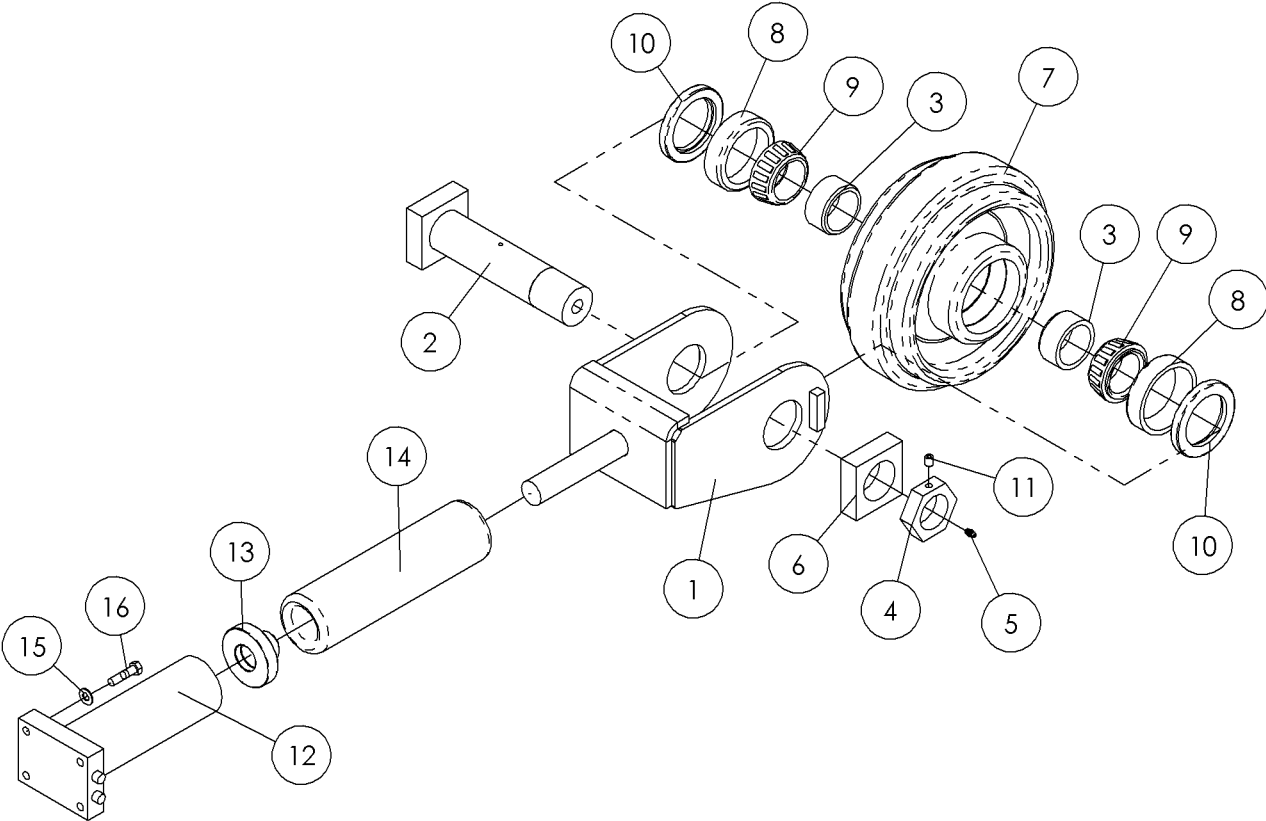
Rack - 10' Fig 2-4



Rack - 10' Fig 2-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280125	WELDMENT - RACK, 10 FT, D36X50II	1	
2		296275355	PIN - RACK PIVOT	1	
3		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
4		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1	
5		598001	FITTING-1/4" NF ST GREASE ZERK	1	
6		276318001	RACK - SIDE	4	
7		294528001	BAR - RACK SPACER	2	
8		229144001	CAPSCREW- 1/2-13 X 1 3/4SOC.HD	14	
9		276336001	BSHNG-2 3/8ODX2.00ID-3.00 CNNX	2	
10		278902001	STRAP - DOUBLE SLEEVE HANGER	3	
11		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	10	
12		235742001	BOLT-5/16-18X3/4 GR8 ZINC PLTD	6	
13		296280137	PLATE - ROD GUARD	1	
14		296284051	STRAP - HOSE SUPPORT	2	
15		248031001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	4	
16		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	2	
17		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	2	
18		277132001	CAP - RACK END	1	
19		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
20		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	2	
21		296280209	SEBWELD - END STOP	1	
22		510337617	WASHER-FLATSTD-.75-.81X2.00-.15-YZ	8	
23		235739001	NUT-3/4-10 GR8 ZINC PLTD	4	
24		238880001	BOLT-3/4-10X2 1/2 HHCS GR8 ZY	4	
25		7000i834	DECAL - TIE DOWN POINT	1	

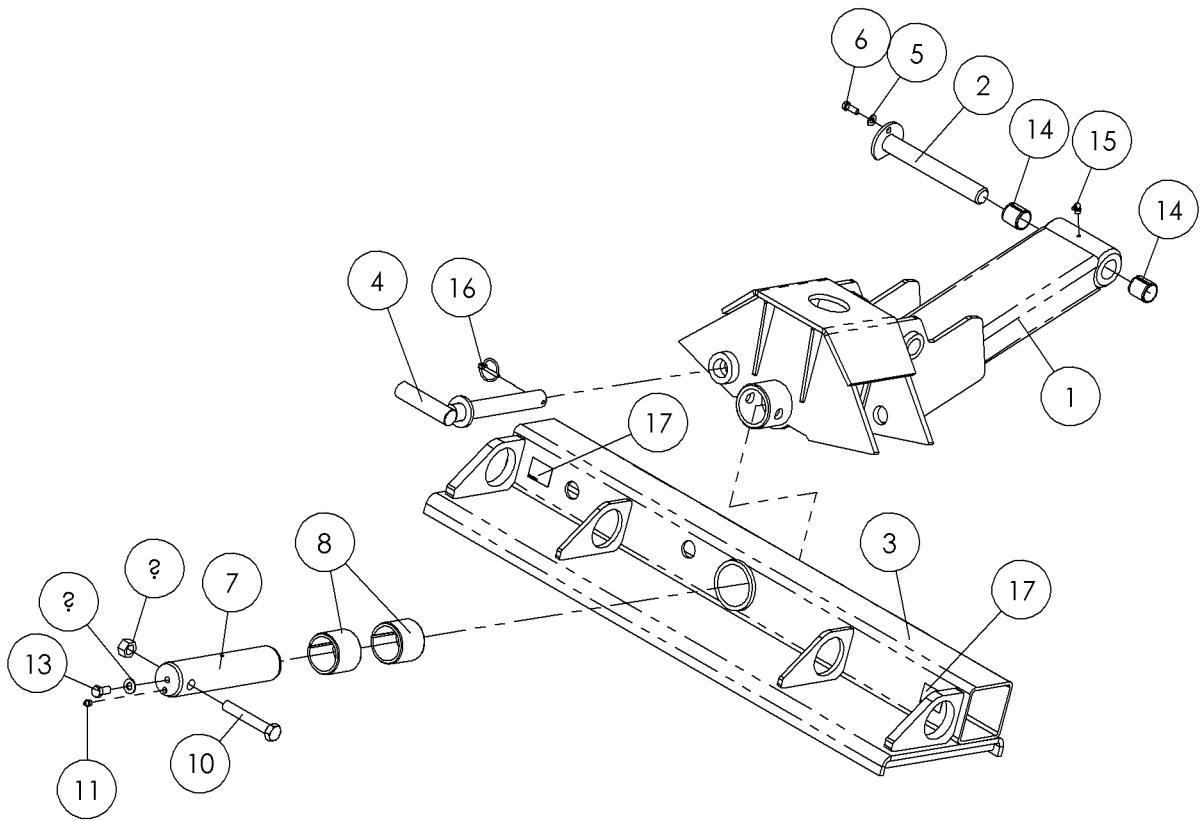
Track Tightener Fig 2-5



Track Tightener Fig 2-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		294562001	BRACKET - TRACK END ROLLER	2	
2		251129001	PIN - FRONT IDLER	2	
3		280532001	SPACER-IDLER ROLLER	4	
4		251131001	NUT - FRONT IDLER	2	
5		598001	FITTING-1/4" NF ST GREASE ZERK	2	
6		251423001	BLOCK-IDLER ROLLER BOLT	2	
7		251203001	ROLLER - FRONT TRACK	2	
8		1715011	TIMKEN CUP 2" #3730	4	
9		1716011	TIMKEN CONE 2" #3775	4	
10		3967001	SEAL -#25091 C/R	4	
11		530001	SSS-3/8-16X1/2	2	
12		296275159	CYLINDER-2.50X4.50 GREASE	2	
13		251432001	CAP-ROD	2	
14		251101001	SPRING-3.0 OD X25/32W X 13 1/2	2	
15		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	8	
16		235723001	SCREW - HCS -.38 - 16 X 1.50 - GR8 - YZ	8	

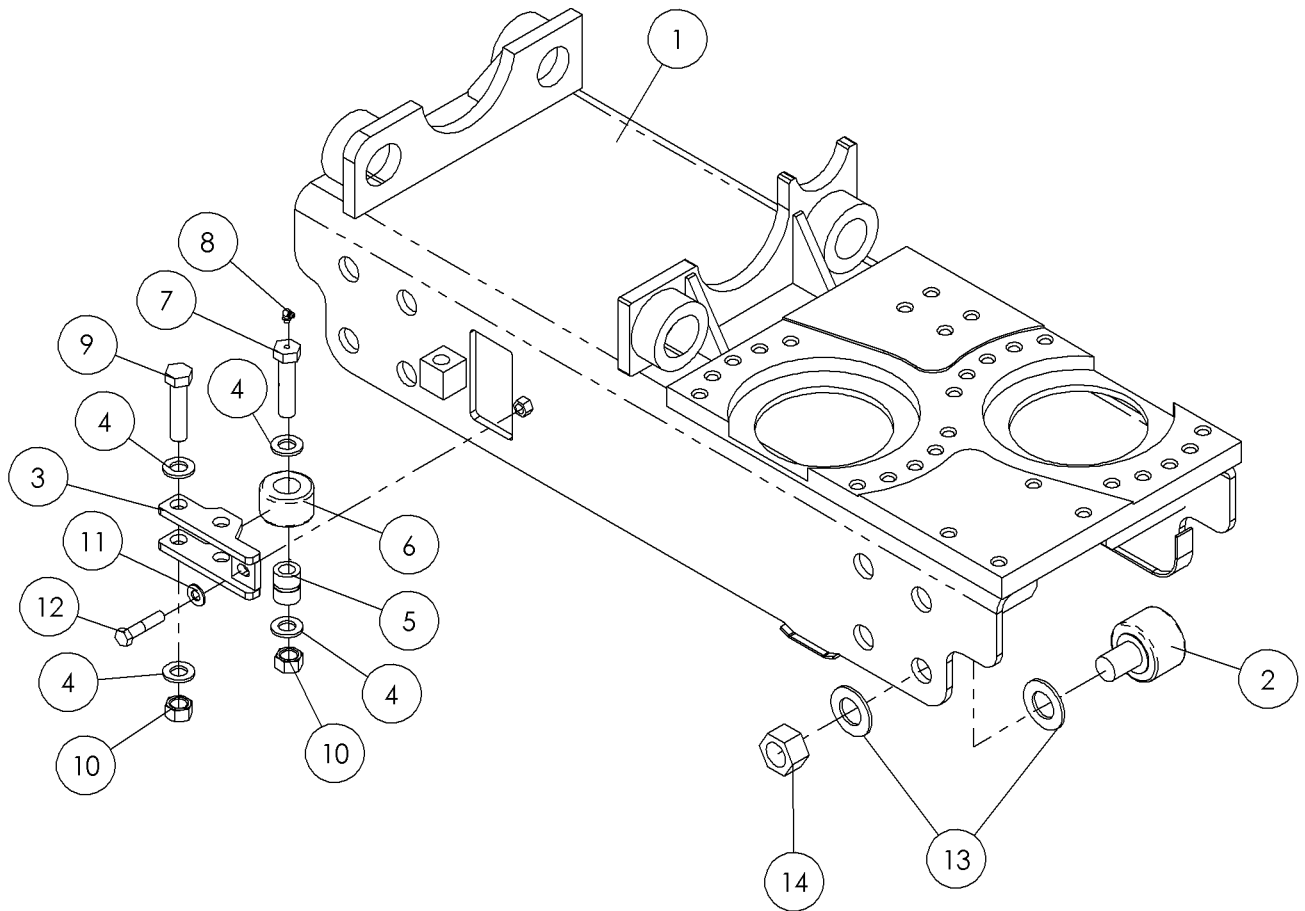
Outrigger Fig 2-6



Outrigger Fig 2-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296275429	SUB - ARM OUTRIGGER	1	
2		230858001	PIN-OUTRIGGER	1	
3		296275423	PAD - OUTRIGGER	1	
4		296275446	ASSEMBLY - OUTRIGGER PIN	1	
5		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
6		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1	
7		235849001	PIN-PIVOT 125@26184	1	
8		1835099	BSHG-STL.3 X 2 1/2-2 1/2	2	
9		250510001	NUT 3/4 NC Gr8 SLTL Y/ZINC	1	
10		235738001	BOLT-3/4-10X4 1/2 GR8 ZNC PLT	1	
11		586001	ZERK-1/8" ST NPT GREASE REF TR00484	1	
12		485025	WASHER-1/2 FLAT-HARDENED-YZ	1	
13		235729001	SCREW-HCS-.50-13X1.00-GR8-YZ	1	
14		1835027	BSHG.-STL.-1 1/2X1 1/4X1 1/2 REF T05914	2	
15		590001	ZERK-1/8" NPT 90 DEG GREASE REF T00838	1	
16		1797003	PIN-QUICK ATTACHMENT LATCH 1/4"-XCX 6M DIA"	1	
17		70001834	DECAL - TIE DOWN POINT	2	

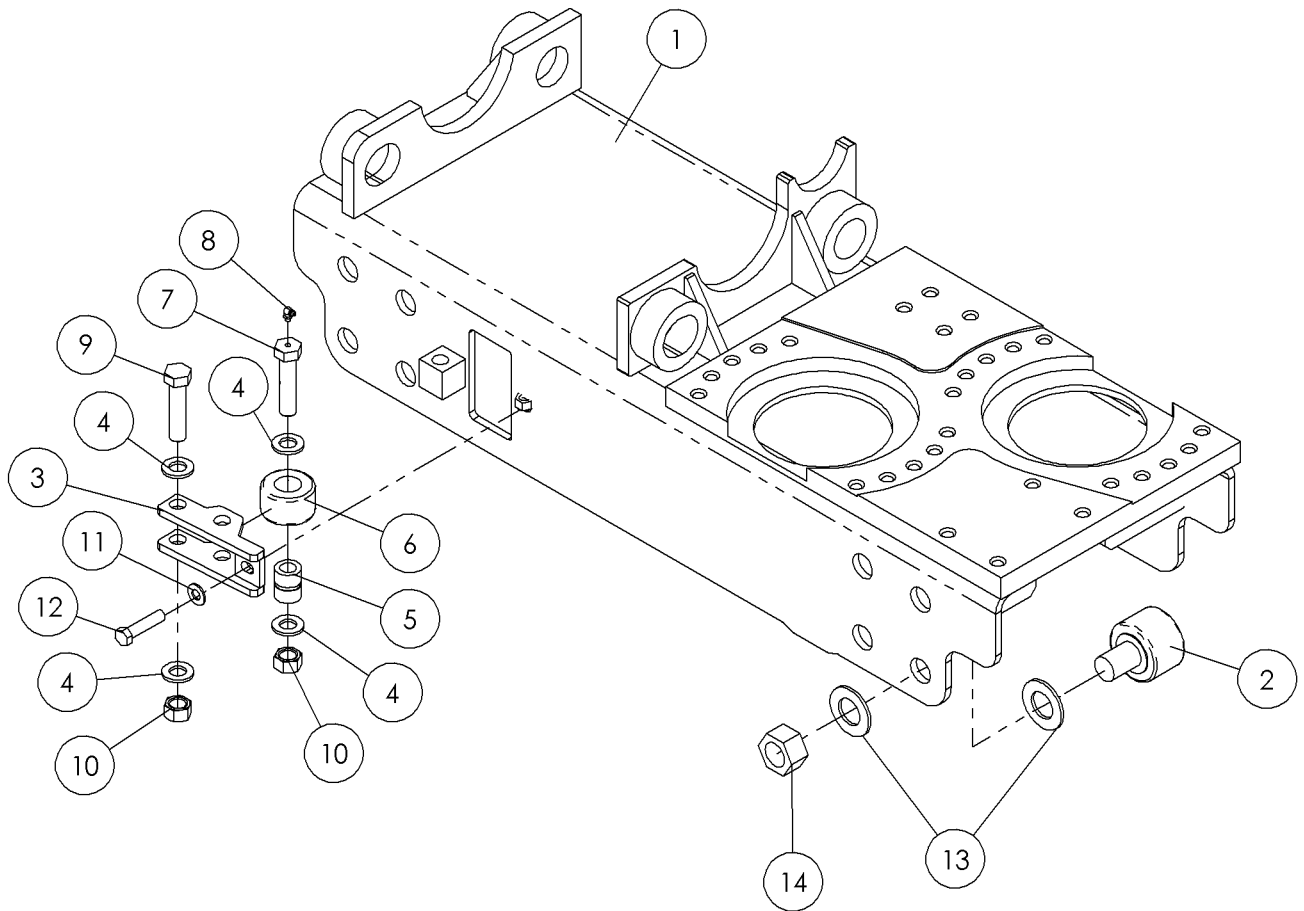
Thrust/Carriage Fig 2-7r02



Thrust/Carriage Fig 2-7r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		296279987	CARRIAGE - GEARBOX THRUST	1	
2		296280155	ROLLER - 3"OD, 1 1/4-12 STUD	16	
3		278875001	BRACKET - SIDE ROLLER	2	
4		235717001	WASHER - 3/4" HARDENED FLAT YZ	8	
5		244678001	BUSHING GUIDE ROLLER	2	
6		244679001	ROLLER-GUIDE	2	
7		235915001	BOLT-GREASABLE ROLLER 26184	2	
8		597001	ZERK-1/4" NF 90 DEG GREASE ZYC	2	
9		250604001	BOLT-3/4-10X3 1/4 GR8 HX Y/ZNC	2	
10		235739001	NUT-3/4-10 GR8 ZYC	4	
11		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
12		240335001	SCREW-HCS-.50-13X2.25-GR8-YZ	2	
13		238891001	WASHER-1 1/4 HARDENED FLAT ZY	32	
14		276475001	NUT - 1 - 1/4 - 12 HEX GR8 Y-ZINC	16	

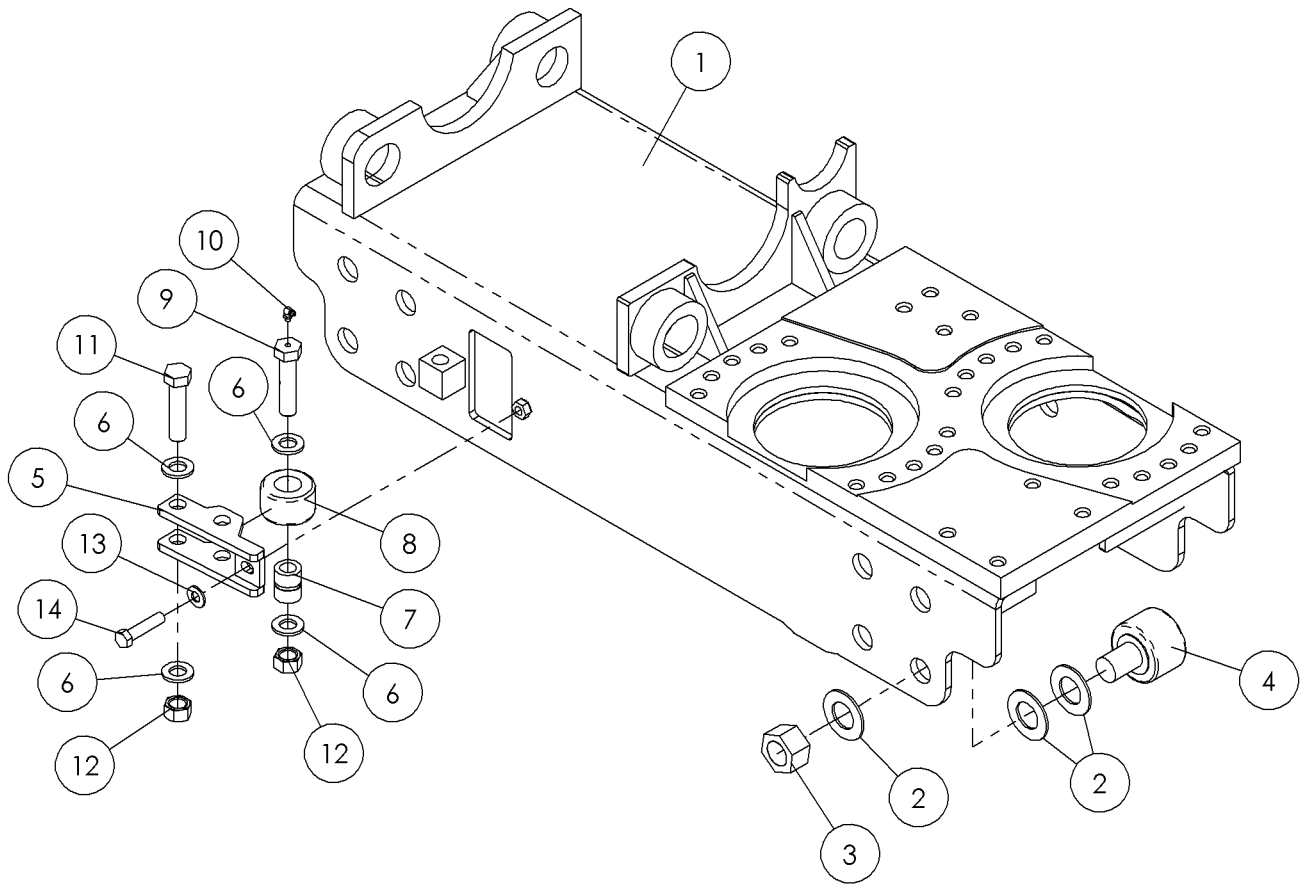
Thrust/Carriage Fig 2-7r01



Thrust/Carriage Fig 2-7r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296279987	CARRIAGE - GEARBOX THRUST	1	
2		296280155	ROLLER - 3"OD, 1 1/4-12 STUD	16	
3		278875001	BRACKET - SIDE ROLLER	2	
4		235717001	WASHER - 3/4" HARDENED FLAT YZ	8	
5		244678001	BUSHING GUIDE ROLLER	2	
6		244679001	ROLLER-GUIDE	2	
7		235915001	BOLT-GREASABLE ROLLER 26184	2	
8		597001	ZERK-1/4" NF 90 DEG GREASE REF T03633	2	
9		250604001	BOLT-3/4-10X3 1/4 GR8 HX Y/ZNC	2	
10		235739001	NUT-3/4-10 GR8 ZINC PLTD	4	
11		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
12		240335001	BOLT-1/2-13X2 1/4 GR8 ZINC PLT	2	
13		238891001	WASHER-1 1/4 HARDENED FLAT ZY	32	
14		276475001	NUT - 1 - 1/4 - 12 HEX GR8 Y-ZINC	16	

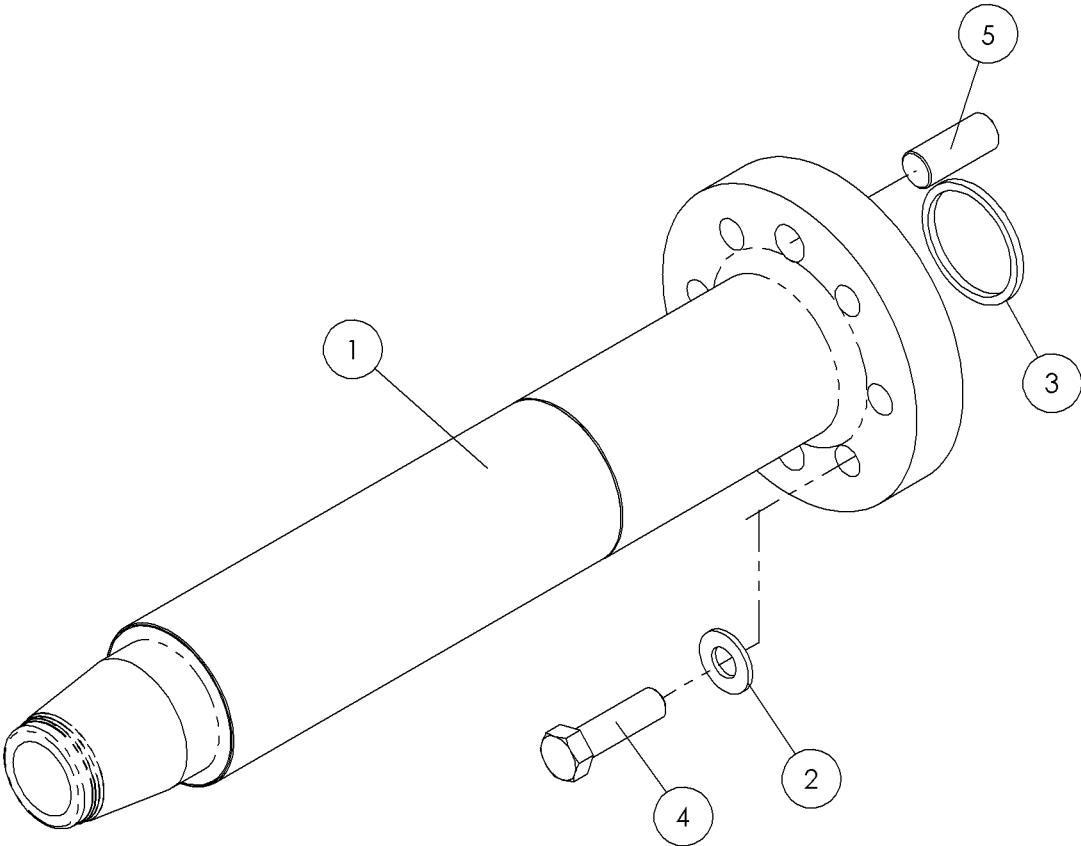
Thrust/Carriage Fig 2-7



Thrust/Carriage Fig 2-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279987	CARRIAGE - GEARBOX THRUST	1	
2		238891001	WASHER-1 1/4 HARDENED FLAT ZY	48	
3		276475001	NUT - 1 - 1/4 - 12 HEX GR8 Y-ZINC	16	
4		296280155	ROLLER - 3"OD, 1 1/4-12 STUD	16	
5		278875001	BRACKET - SIDE ROLLER	2	
6		235717001	WASHER - 3/4" HARDENED FLAT YZ	8	
7		244678001	BUSHING GUIDE ROLLER	2	
8		244679001	ROLLER-GUIDE	2	
9		235915001	BOLT-GREASABLE ROLLER 26184	2	
10		597001	ZERK-1/4" NF 90 DEG GREASE	2	
11		250604001	BOLT-3/4-10X3 1/4 GR8 HX Y/ZNC	2	
12		235739001	NUT-3/4-10 GR8 ZINC PLTD	4	
13		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
14		240335001	BOLT-1/2-13X2 1/4 GR8 ZINC PLT	2	

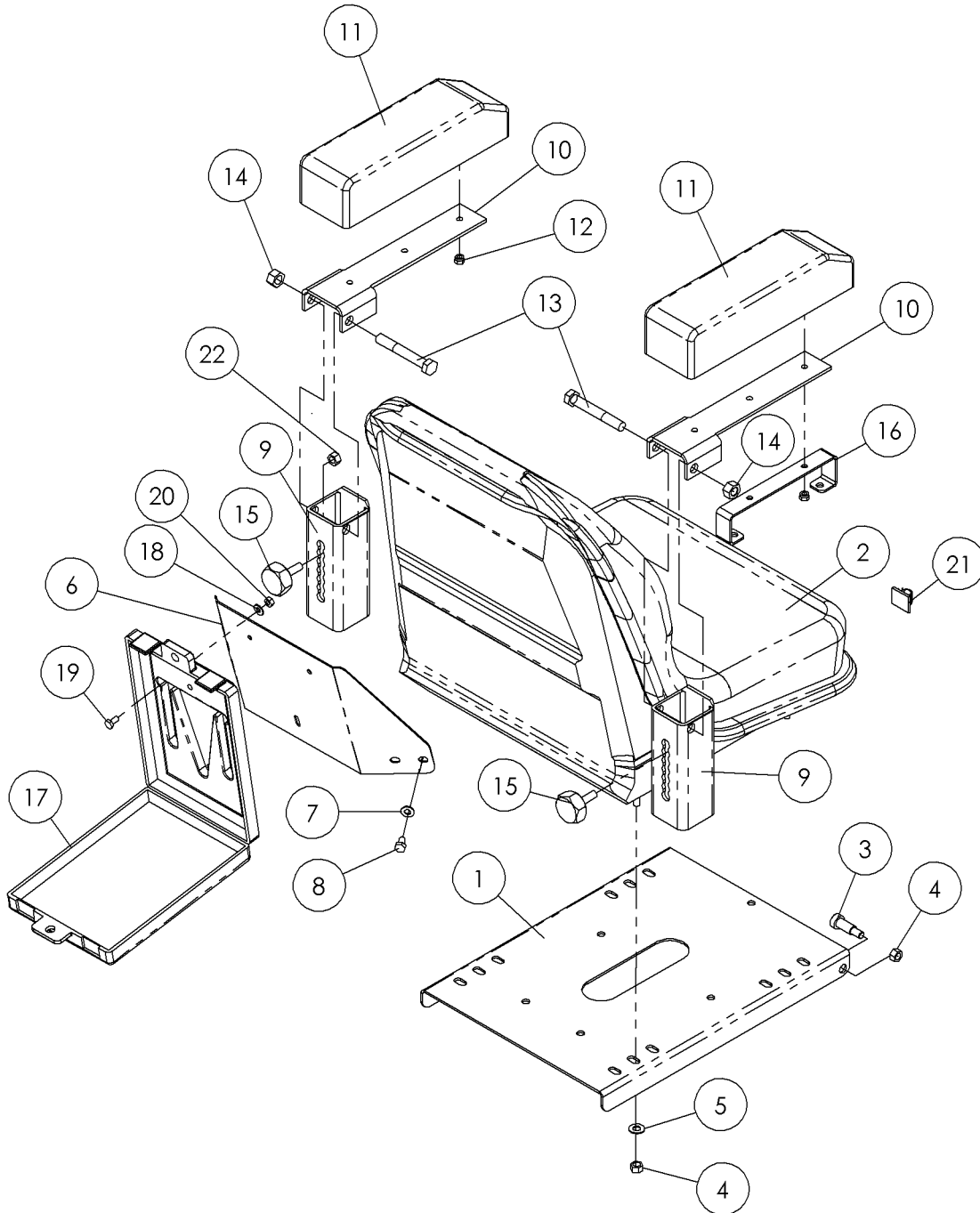
Drive Chuck Fig 2-8



Drive Chuck Fig 2-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		284142001	SHAFT - DRIVE CHUCK 2 3/8 FIRESTICK II	1	
2		485025	WASHER-1/2 FLAT-HARDENED-YZ	6	
3		72897001	O RING-SQ. #24 FLANGE	1	
4		240334001	BOLT-1/2-13X1 3/4 GR8 ZINC PLT	6	
5		70096001	PIN-DOWEL 5/8DIA.-1 1/2	2	

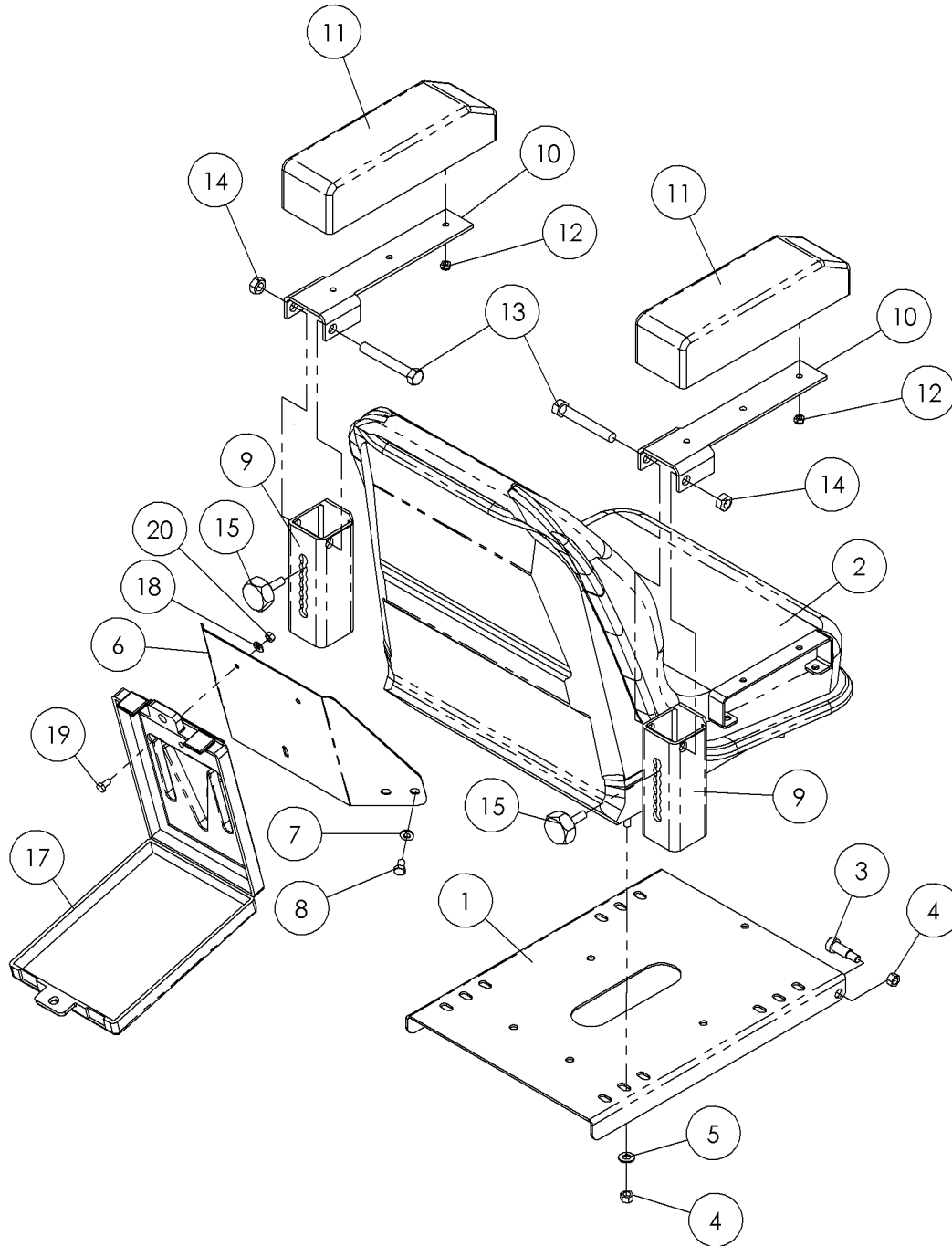
Seat & Arm Rest Fig 2-9r01



Seat & Arm Rest Fig 2-9r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296274174	PLATE - SEAT MOUNT	1	
2		296274289	SEAT - MILSCO XR210 GRAY	1	
3		129671001	SCREW-1/2X1 SOCKET SHOULDER	2	
4		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	6	
5		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
6		235683001	MOUNT-MANUAL BOX	1	
7		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	4	
8		235740001	BOLT-5/16-18X1/2 GR8 ZYC	4	
9		296274121	ARM - REST SUPPORT UPPER	2	
10		296274122	ARM - REST HINGE PLATE	2	
11		296274120	ARM REST - VINYL	2	
12		103201001	NUT-1/4-20NC NYLON INSERT LOCK	6	
13		238241001	BOLT 1/2"-13X 3 1/2" GR8 HEX	2	
14		75382001	NUT-1/2-UNC GRADE 8 SLTL	2	
15		296274127	HANDLE - SEAT ADJUSTMENT	2	
16		296275585	BRACKET - REMOTE LOCKOUT	1	
17		142410001	CASE-6"X9 XCX X1" OPERATOR MANUAL	1	
18		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	3	
19		235733001	BOLT-1/4-20X1/2 GR8 ZYC	3	
20		248198001	NUT-1/4 - 20 GR8 TOP LOCK ZINC	3	
21		279318001	CLAMP - ADHESIVE MOUNT	1	
22		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	2	

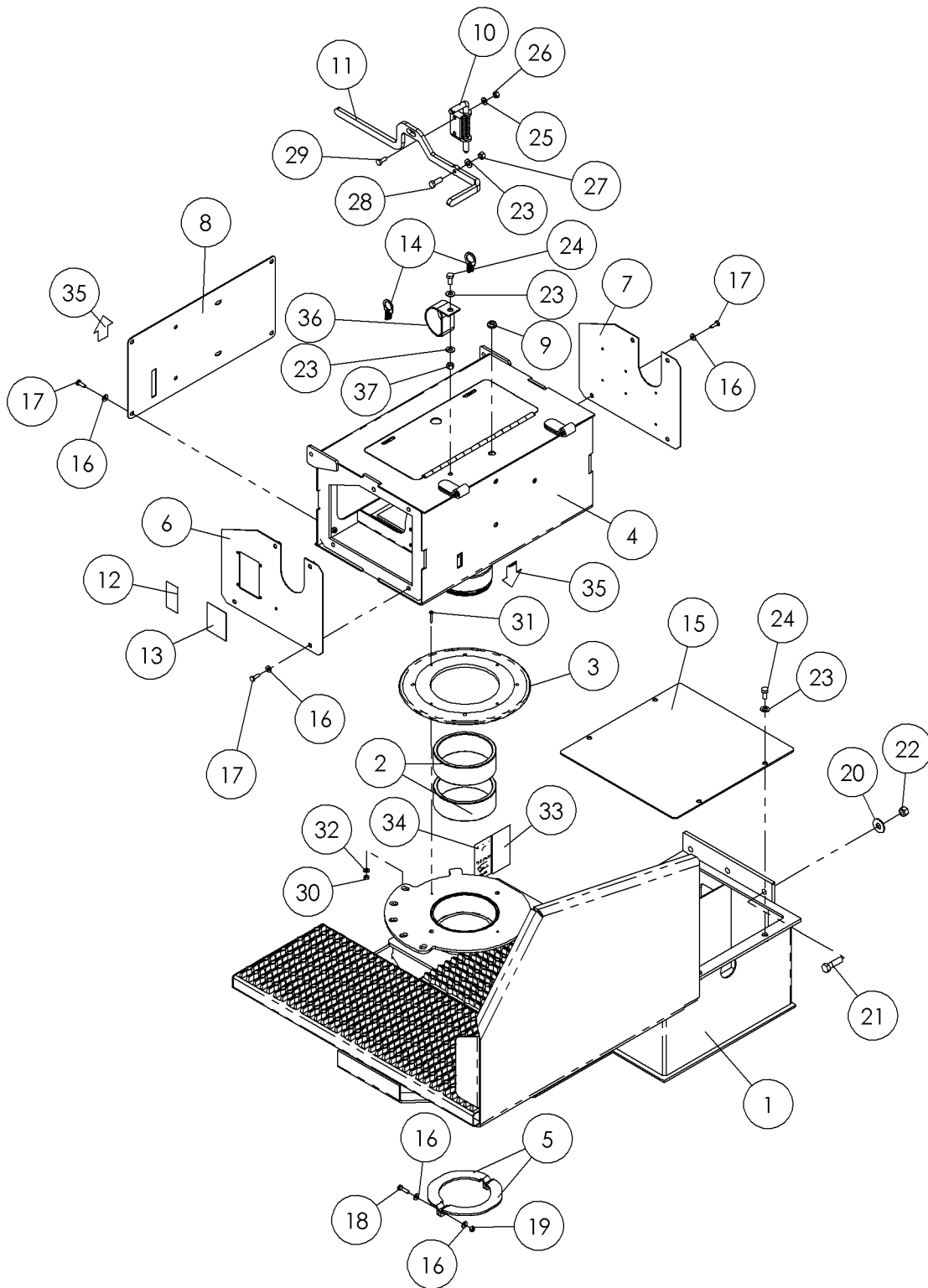
Seat & Arm Rest Fig 2-9



Seat & Arm Rest Fig 2-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296274174	PLATE - SEAT MOUNT	1	
2		296274289	SEAT - MILSCO	1	
3		129671001	SCREW-1/2 X 1 SOCKET SHOULDER	2	
4		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	6	
5		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	4	
6		235683001	MOUNT- MANUAL BOX	1	
7		235714001	WASHER-5/16 SAE HARD ZINC PLTD	4	
8		235740001	SCREW-HCS-.31-18X.50-GR8-YZ	4	
9		296274121	ARM - REST SUPPORT UPPER	2	
10		296274122	ARM - REST HINGE PLATE	2	
11		296274120	ARM REST GRAY VINYL	2	
12		103201001	NUT - 1/4-20 NYLON INSERT LOCK	6	
13		238241001	BOLT 1/2"-13X 3 1/2" GR8 HEX	2	
14		75382001	NUT - 1/2-13 GR.8 SLTL	2	
15		296274127	HANDLE - SEAT ADJUSTMENT	2	
16		296275585	BRACKET-REMOTE LOCKOUT	1	
17		142410001	CASE-6"X9 XCX X1" OPERATOR MANUAL	1	
18		235716001	WASHER-FLATSTRL-.25-.28X.63-.06-CZ	3	
19		235733001	SCREW-HCS-.25-20X.50-GR8-YZ	3	
20		248198001	NUT-TLHEX-.25-20-C-CD&W	3	
21		279318001	CLAMP - ADHESIVE MOUNT	1	
22		250508001	NUT-TLHEX-.38-16-C-YZ	2	

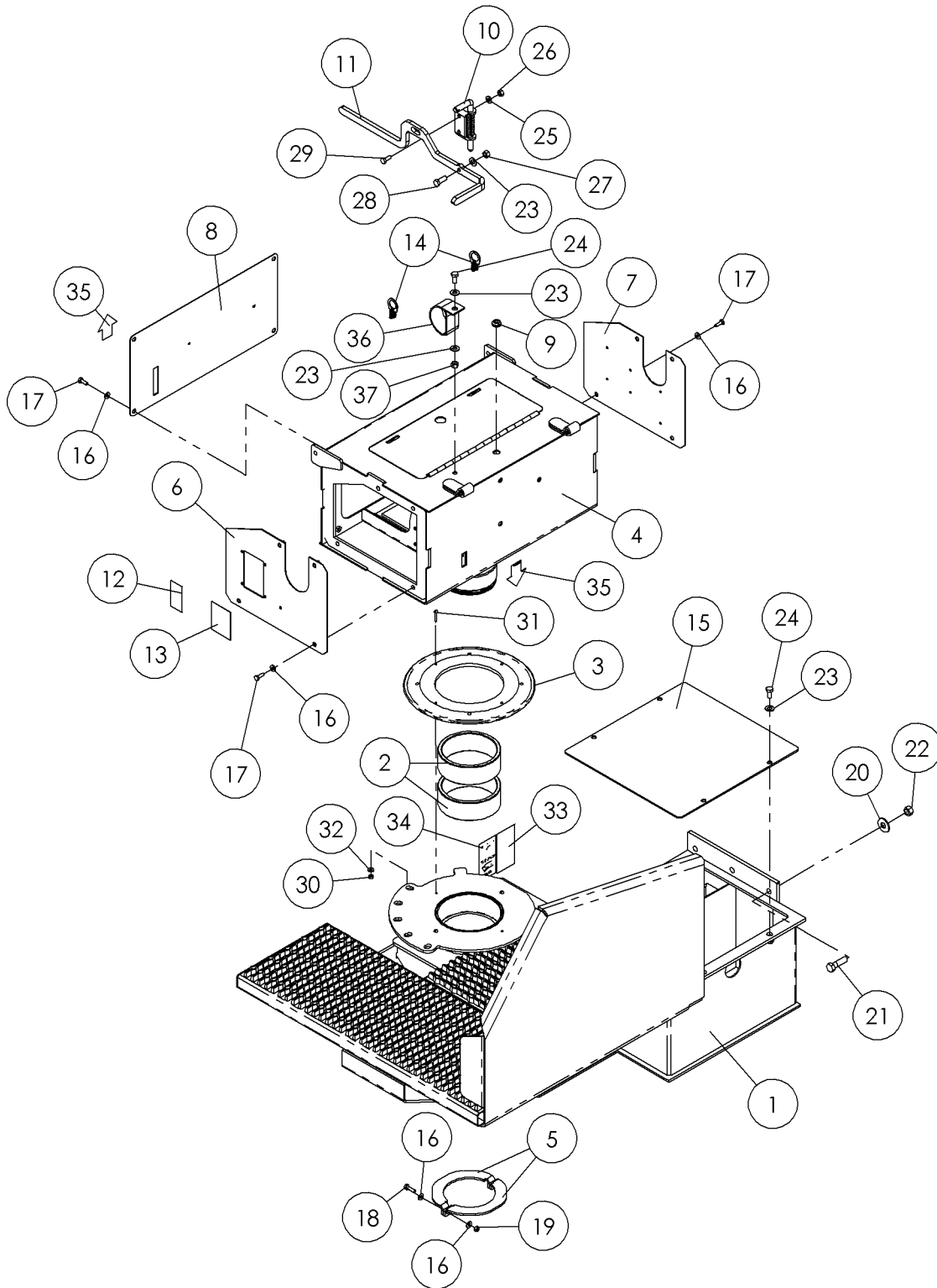
Operator Platform Fig 2-10r02



Operator Platform Fig 2-10r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296280979	OPERATOR PLATFORM	1	
2		296274302	BUSHING - PIVOT	2	
3		296256466	BEARING - LAZY SUSAN #12C	1	
4		296274128	CONSOLE - LOWER FRAME	1	
5		296274303	CLAMP - SHAFT CLAMP	2	
6		296280197	PLATE - SIDE CONSOLE FRAME RH	1	
7		296274143	PLATE - SIDE CONSOLE FRAME LH	1	
8		296282509	PLATE -COVER SEAT BASE	1	
9		1865027	GROMMET-5/16ID-1/8GR-.56 HOLE	1	
10		296274337	SPRING LATCH 720-S-L-ZINC	1	
11		296274287	LEVER - SEAT LOCK RELEASE	1	
12		7000C928	DECAL - RELAY BOX D36X50	1	
13		7000C687	DECAL - BREAKER BOX D36X50	1	
14		86113001	FASTENER-1/4 TURN	2	
15		296280433	PLATE-BATTERY COVER	1	
16		235716001	WASHER-FLATSTRL-.25-.28X.63-.06-CZ	16	
17		235734001	SCREW-HCS-.25-20X.75-GR8-YZ	12	
18		235735001	SCREW-HCS-.25-20X1.00-GR8-YZ	2	
19		248198001	NUT-TLHEX-.25-20-C-CD&W	2	
20		510337611	WASHER-FLATSTD-.50-.56X1.38-.11-YZ	6	
21		240334001	SCREW-HCS-.50-13X1.75-GR8-YZ	6	
22		250512001	NUT-TLHEX-.50-13-C-YZ	6	
23		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	7	
24		235726001	SCREW-HCS-.38-16X.75-GR8-YZ	5	
25		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ-A325	2	
26		235741001	NUT-HEX-.31-18-GR8-YZ	2	
27		250508001	NUT-TLHEX-.38-16-C-YZ	1	
28		235727001	SCREW-HCS-.38-16X1.00-GR8-YZ	1	
29		235742001	SCREW-HCS-.31-18X.75-GR8-YZ	2	
30		400001	NUT-HEX-#10-24-GR2-CZ	3	
31		1802010	SCREW-10-24X1.00-GR2-CZ-ROUND SLTD	3	
32		510337601	WASHER-FLATSTD-.19-.22X.56-.05-YZ	3	
33		7000c446	DECAL - NO WELD	1	Domestic
		700IC446	DECAL - NO WELD	1	International
34		70000044	DECAL - WARNING (AT/UND)(DOMESTIC)	1	Domestic
		7000I044	DECAL-WARNING		International
35		700ib248	DECAL - PUSH	2	
36		278901001	STRAP - HOSE SLEEVE HANGER	1	
37		235725001	NUT-HEX-.38-16-GR8-YZ	1	

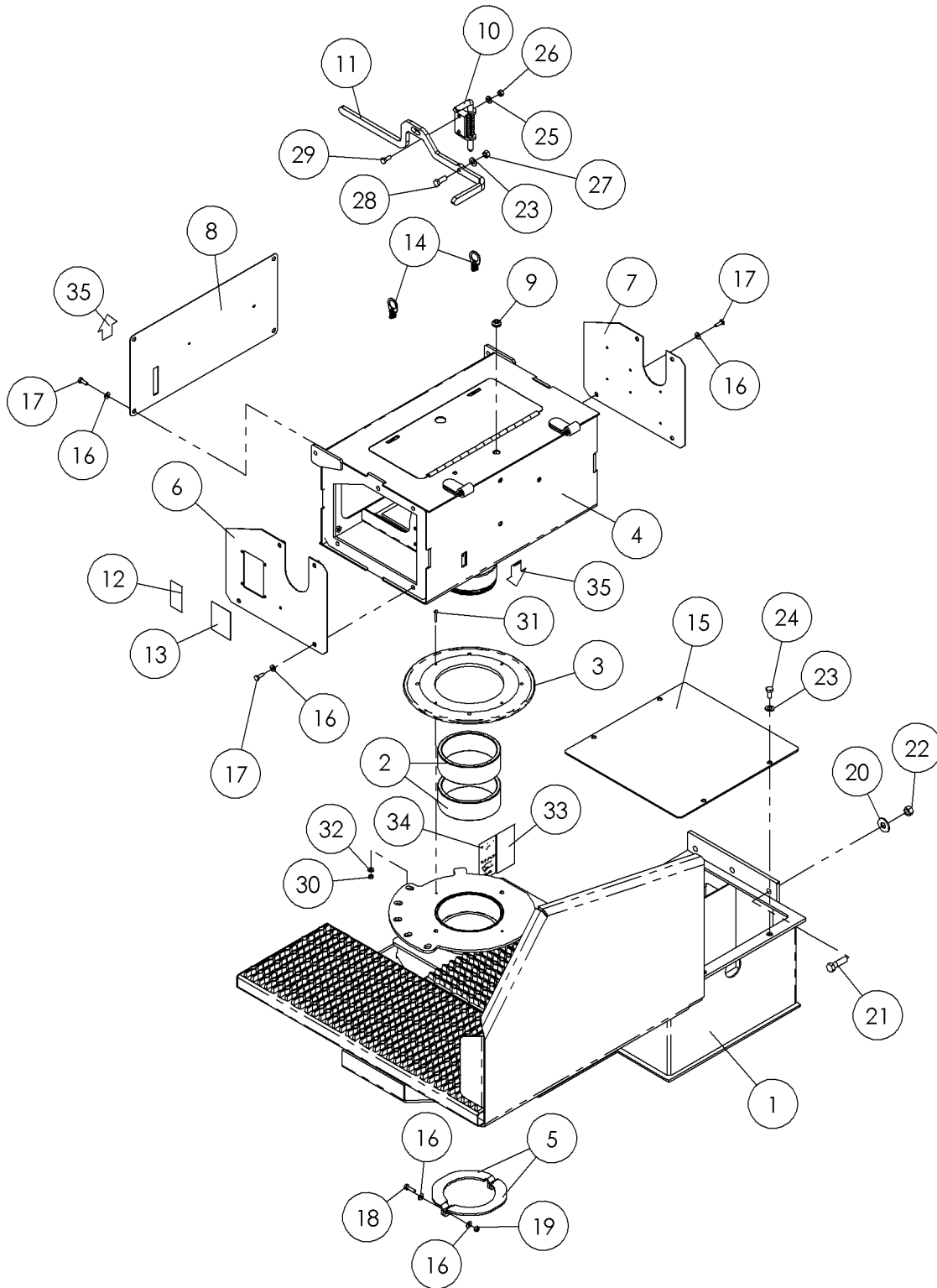
Operator Platform Fig 2-10r01



Operator Platform Fig 2-10r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		296280979	PLATFORM - OPERATOR	1	
2		296274302	BUSHING - PIVOT	2	
3		296256466	BEARING-LAZY SUSAN #12C	1	
4		296274128	CONSOLE - LOWER FRAME	1	
5		296274303	CLAMP - SHAFT CLAMP CONSOLE LOWER BASE	2	
6		296280197	PLATE - SIDE CONSOLE FRAME RH	1	
7		296274143	PLATE - END SEAT BASE	1	
8		296274144	COVER - PLATE SEAT BASE	1	
9		1865027	GROMMET-5/16ID-1/8GR-.56 HOLE	1	
10		296274337	SPRING LATCH 720-S-L-ZINC	1	
11		296274287	LEVER - SEAT LOCK RELEASE	1	
12		7000C686	DECAL-RELAY BOX D36X50	1	
13		7000C687	DECAL-BREAKER BOX D36X50	1	
14		86113001	FASTENER-1/4 TURN	2	
15		296280433	PLATE - BATTERY COVER	1	
16		235716001	WASHER - FLATSTRL - .25 -.28 X .63 - .06 - CZ	16	
17		235734001	BOLT-1/4-20X3/4 GR8 ZYC	12	
18		235735001	BOLT-1/4-20X1 GR8 HEX ZYC	2	
19		248198001	NUT-1/4 - 20 GR8 TOP LOCK ZINC	2	
20		510337611	WASHER - FLATSTD - .50-.56X1.38-.11- YZ	6	
21		240334001	SCREW-HCS-.50-13X1.75-GR8-YZ	6	
22		250512001	NUT- 1/2 NC Gr8 TOP LOCK Y/ ZINC	6	
23		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	7	
24		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	5	
25		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	2	
26		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	2	
27		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	1	
28		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	1	
29		235742001	BOLT-5/16-18X3/4 GR8 ZYC	2	
30		400001	NUT-3/16 NC HEX	3	
31		1802010	BOLT - 3/16" X 1" NC STOVE	3	
32		510337601	WASHER-FLATSTD-.19-.22X.56-.05-YZ	3	
33		7000C446	DECAL - NO WELD	1	Domestic
		700IC446	DECAL - NO WELD	1	International
34		70000044	DECAL-WARNING(AT/UND)	1	Domestic
		7000I044	DECAL-WARNING	1	International
35		700ib248	DECAL - PUSH	2	
36		278901001	STRAP - HOSE SLEEVE HANGER	1	
37		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	1	

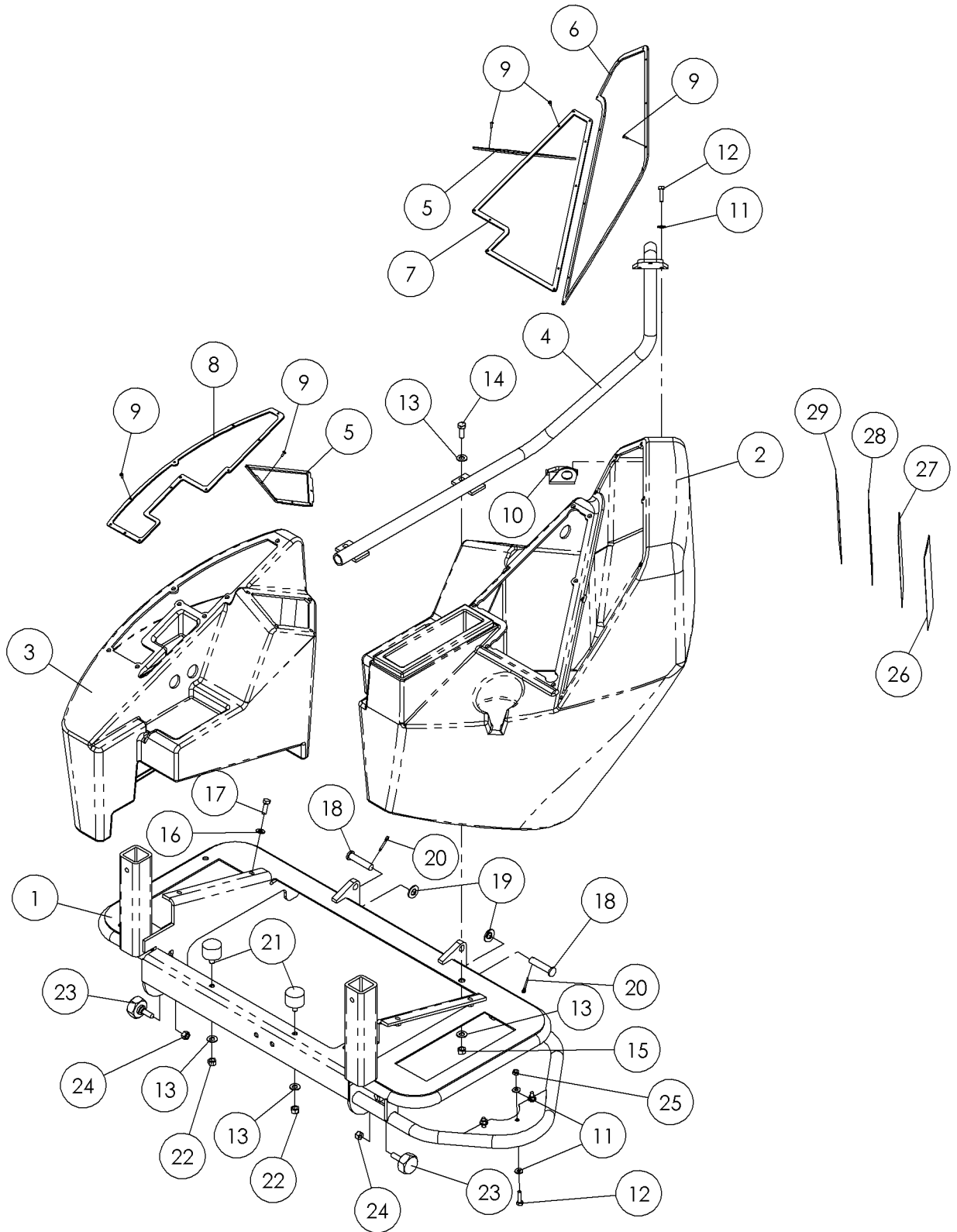
Operator Platform Fig 2-10



Operator Platform Fig 2-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280979	PLATFORM - OPERATOR	1	
2		296274302	BUSHING - PIVOT	2	
3		296256466	BEARING-LAZY SUSAN #12C	1	
4		296274128	CONSOLE - LOWER FRAME	1	
5		296274303	CLAMP - SHAFT CLAMP CONSOLE LOWER BASE	2	
6		296280197	PLATE - SIDE CONSOLE FRAME RH	1	
7		296274143	PLATE - END SEAT BASE	1	
8		296274144	COVER - PLATE SEAT BASE	1	
9		1865027	GROMMET-5/16ID-1/8GR-.56 HOLE	1	
10		296274337	SPRING LATCH 720-S-L-ZINC	1	
11		296274287	LEVER - SEAT LOCK RELEASE	1	
12		7000C686	DECAL-RELAY BOX D36X50	1	
13		7000C687	DECAL-BREAKER BOX D36X50	1	
14		86113001	FASTENER-1/4 TURN	2	
15		296280433	PLATE - BATTERY COVER	1	
16		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	16	
17		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	12	
18		235735001	BOLT-1/4-20X1 GR8 HEX ZNC PLTD	2	
19		248198001	NUT-1/4 - 20 GR8 TOP LOCK ZINC	2	
20		510337611	WASHER - FLATSTD - .50-.56X1.38-.11- YZ	6	
21		240334001	BOLT-1/2-13X1 3/4 GR8 ZINC PLT	6	
22		250512001	NUT- 1/2 NC Gr8 TOP LOCK Y/ ZINC	6	
23		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	5	
24		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	4	
25		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	2	
26		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	2	
27		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	1	
28		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1	
29		235742001	BOLT-5/16-18X3/4 GR8 ZINC PLTD	2	
30		400001	NUT-3/16 NC HEX	3	
31		1802010	BOLT - 3/16" X 1" NC STOVE	3	
32		510337601	WASHER-FLATSTD-.19-.22X.56-.05-YZ	3	
33		7000C446	DECAL - NO WELD	1	Domestic
		700IC446	DECAL - NO WELD	1	International
34		70000044	DECAL-WARNING(AT/UND)	1	Domestic
		7000I044	DECAL-WARNING	1	International
35		700IB248	DECAL - PUSH	2	

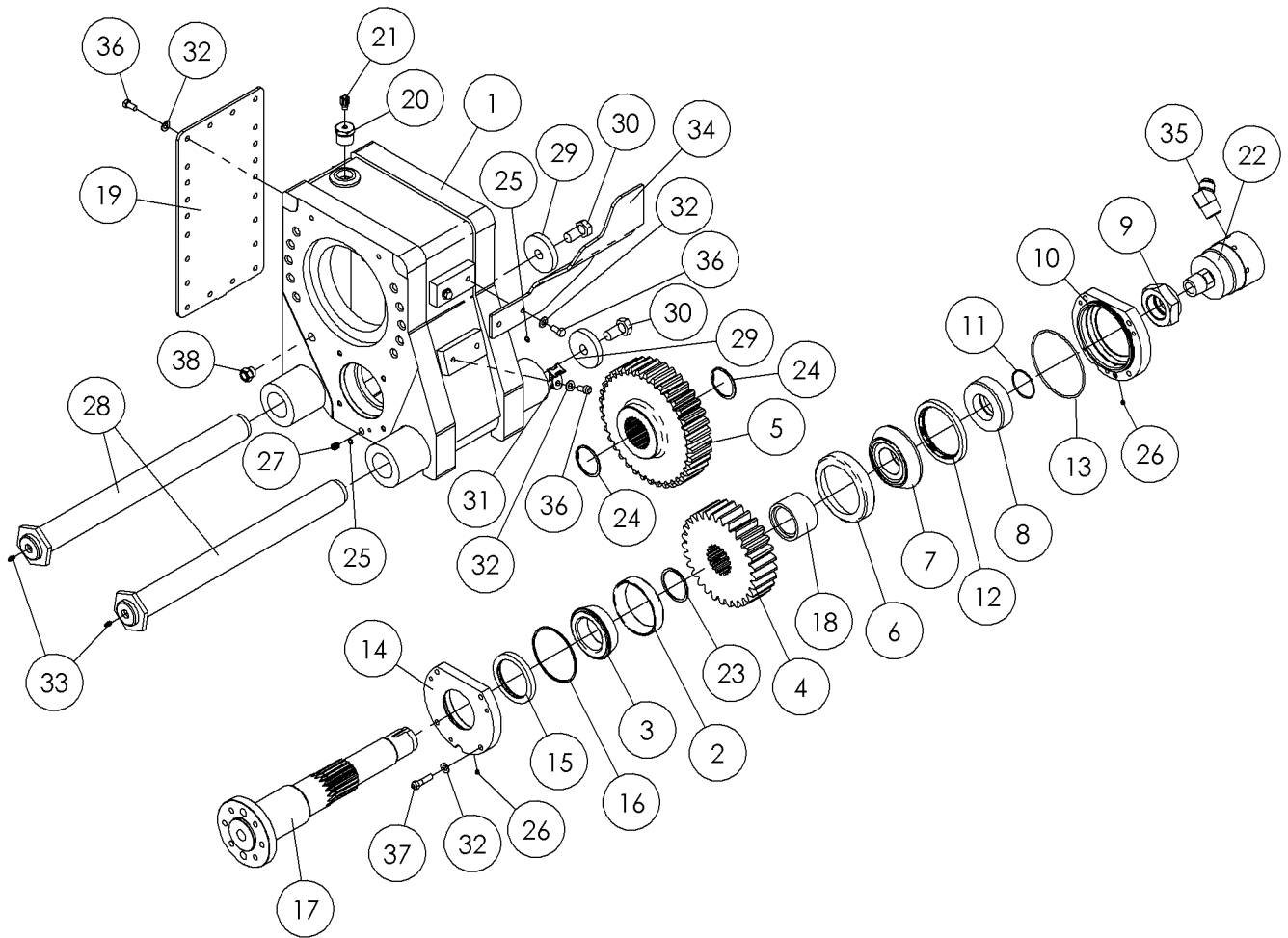
Control Console Fig 2-11



Control Console Fig 2-11

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296274141	FRAME - SEAT WELDMENT	1	
2		296274251	CONSOLE - OPERATOR RH	1	
3		296274252	CONSOLE - OPERATOR LH	1	
4		296274172	WELD-HAND RAIL-CONSOLE	1	
5		296274182	BACKING - PLATE - JOYSTICK MOUNT	2	
6		296274187	PLATE - GUAGE RIGHT UPPER D24X40	1	
7		296274188	BACK PLATE RIGHT HAND LOWER	1	
8		296274190	PLATE - BACKING LEFT HAND	1	
9		296280370	POP RIVET - ABA46	19	
10		296274185	WELDMENT - MOUNT - ANTENNA / HANDLE	1	
11		235716001	WASHER-FLATSTRL-.25-.28X.63-.06-CZ	9	
12		235735001	SCREW-HCS-.25-20 X1.00-GR8-YZ	6	
13		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	6	
14		235727001	SCREW-HCS-.38-16X1.00-GR8-YZ	2	
15		250508001	NUT-TLHEX-.38-16-C-YZ	2	
16		235714001	WASHER-5/16 SAE HARD ZINC PLTD	4	
17		238209001	SCREW-HCS-.31-18X1.00-GR8-YZ	4	
18		289662001	PIN - CLEVIS 1/2 X 2.25	2	
19		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	2	
20		510009	COTTER PIN - 1/8" X 1"	2	
21		122474001	MOUNT-SANDWICH SINGLE STUD	2	
22		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	2	
23		296274127	HANDLE - SEAT ADJUSTMENT	2	
24		416001	NUT-ILHEX-.38-16-B-CZ	2	
25		248198001	NUT-TLHEX-.25-20-C-CD&W	3	
26		7000A393	DECAL - WARNING	1	Domestic
		700IA393	DECAL - DANGER	1	International
27		7000A394	DECAL - WARNING	1	Domestic
		700IA394	DECAL - WARNING	1	International
28		7000A627	DECAL - DANGER	1	Domestic
		700IA627	DECAL-DANGER	1	International
29		7000B811	DECAL - DANGER	1	Domestic
		700IB811	DECAL - DANGER - REMOTE LOCK OUT	1	International

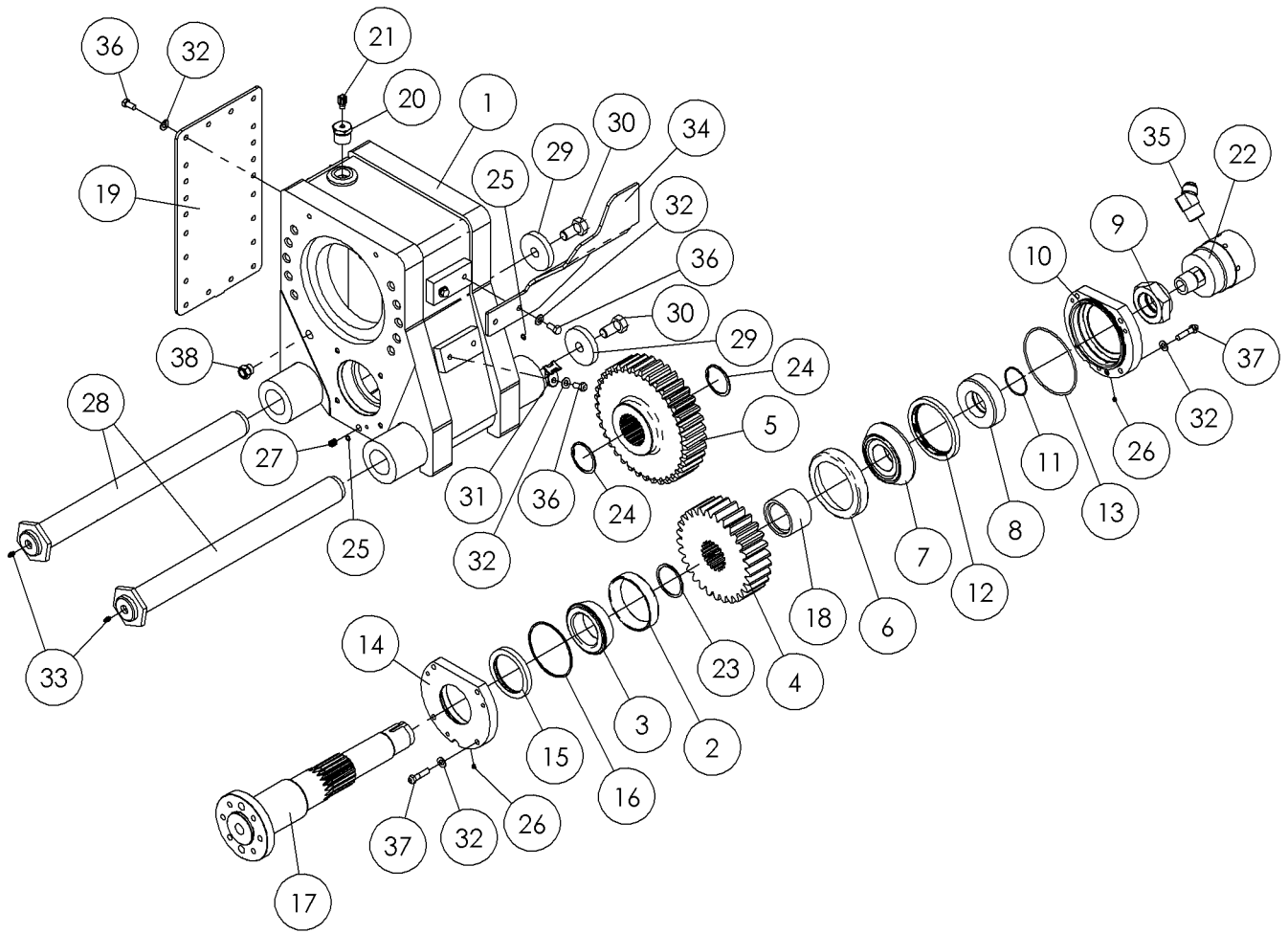
Rotation Gearbox Fig 2-12r02



Rotation Gearbox Fig 2-12r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296280752	GEARBOX - ROTATION (MACH)	1	
2		1715013	TIMKEN CUP-2 1/2" #3920	1	
3		4771061	BRG. CONE 3994	1	
4		251223001	GEAR - 29 TOOTH	1	
5		296279983	GEAR-37T-4 D.P.	1	
6		1715085	CUP-BEARING-78537	1	
7		1716099	CONE-BRG- 78215C	1	
8		215350001	SLEEVE-SEAL	1	
9		278767001	NUT	1	
10		296279996	GLAND - REAR SEAL	1	
11		214202001	O-RING #138	1	
12		296273549	SEAL-4.0 X 5.0 X .44	1	
13		228180001	O-RING- #252 70D BUNA-N	1	
14		296279995	GLAND - FRONT SEAL	1	
15		296273548	SEAL-3.125 X 4.0 X .44	1	
16		228181001	O-RING- #243 70D BUNA-N	1	
17		296279993	SHAFT - ROTATION	1	
18		296279994	SPACER - GEARBOX	1	
19		296280755	COVER - REMOVABLE GEARBOX	1	
20		296273639	FITTING-16MNPT-2FNPT-HEX	1	
21		599001	BREATHER VENT-1/8 NPT 131000	1	
22		276390001	SWIVEL - 1" NPT 1500# 1250 RPM/46 GPM	1	
23		224896250	SNAP RING-2 1/2 EXTERNAL	1	
24		296273519	SNAP RING (HO-237)	2	
25		78185027	O-RING #407228	2	
26		523005	SCREW-SSET-.25-20X.25-PLN-CUP	2	
27		78202001	PLUG-1/4"NPT	1	
28		296271254	PIN - FLOATING HEAD	2	
29		296265249	WASHER - PLATE	2	
30		238217001	SCREW-HCS-.75-10X1.50-GR8-YZ	2	
31		296276018	MOUNT - HEAVY DUTY CABLE TIE	1	
32		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	32	
33		598001	FITTING-1/4" NF ST GREASE ZERK	2	
34		296280172	PLATE - INDICATOR ARM	1	
35		60904001	FITTING - 1MNPT X 16 MJIC 45 DEG.	1	
36		235726001	SCREW-HCS-.38-16X.75-GR8-YZ	25	
37		235723001	SCREW-HCS-.38-16X1.50-GR8-YZ	6	
38		613754001	PLUG - SIGHT .75-16 ZC	1	

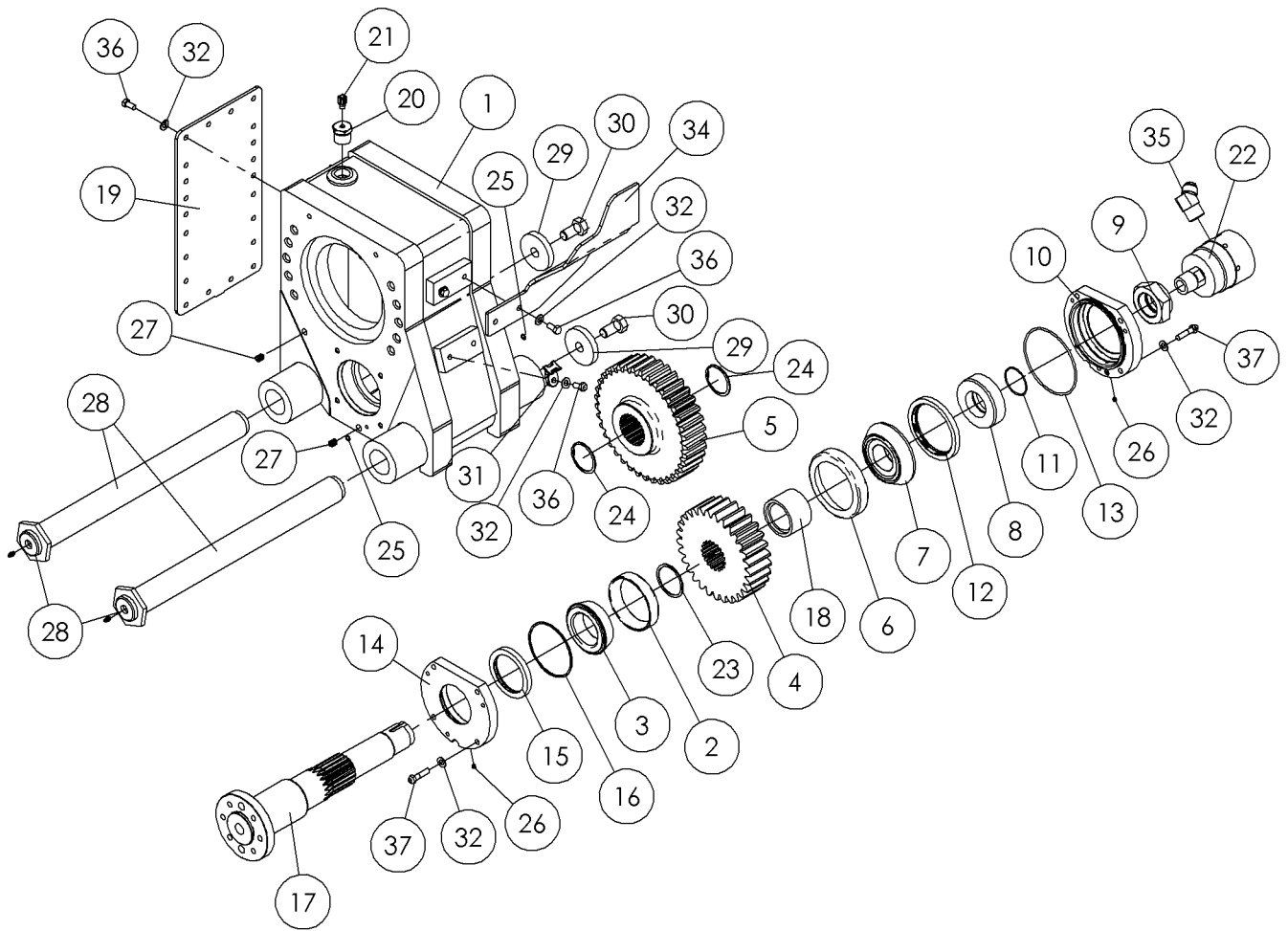
Rotation Gearbox Fig 2-12r01



Rotation Gearbox Fig 2-12r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296280752	GEARBOX - ROTATION (MACH)	1	
2		1715013	TIMKEN CUP-2 1/2" #3920 REF T06586	1	
3		4771061	BRG. CONE 3994 REF T11352	1	
4		251223001	GEAR - 29 TOOTH 2.25 FACE	1	
5		296279983	GEAR - 37T - 4DP	1	
6		1715085	CUP-BEARING	1	
7		1716099	CONE-2 1/8" BRG.	1	
8		215350001	SLEEVE-SEAL	1	
9		278767001	NUT - 50X18-4000# SPEITH-LOCK	1	
10		296279996	GLAND - REAR SEAL	1	
11		214202001	O-RING #138	1	
12		296273549	SEAL-4.000"-LIP	1	
13		228180001	O-RING -#252 7OD BUNA-N	1	
14		296279995	GLAND - FRONT SEAL	1	
15		296273548	SEAL-3.125"-LIP	1	
16		228181001	O-RING -#243 7OD BUNA-N	1	
17		296279993	SHAFT - ROTATION	1	
18		296279994	SPACER - GEARBOX	1	
19		296280755	COVER - REMOVABLE GEARBOX	1	
20		296273639	FITTING - 16MNPT - 2FNPT - HEX -YZ	1	
21		599001	BREATHER VENT-1/8 NPT 131000 REF T05726	1	
22		276390001	SWIVEL-1"NPT1500#1250RPM/46PGM	1	
23		224896250	SNAP RING-2 1/2" EXTERNAL	1	
24		296273519	SNAP RING (HO-237)	2	
25		78185027	O-RING # 407228	2	
26		523005	SCREW-1/4-20X1/4 SOCKET HD.SET	2	
27		78202001	PLUG-1/4NPT SOCKET HEAD PIPE	1	
28		296271254	PIN - FLOATING HEAD	2	
29		296265249	PLATE - WASHER	2	
30		238217001	BOLT-3/4-10X1 1/2 GR8 HEX ZYC	2	
31		296276018	MOUNT HELLER MANN TITON	1	
32		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	34	
33		598001	FITTING-1/4" NF ST GREASE ZERK	2	
34		296280172	PLATE - INDICATOR ARM	1	
35		60904001	1M NPT X 16M JIC 45 DEG ELBOW	1	
36		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	25	
37		235723001	SCREW - HCS - .38 - 16 X 1.50 - GR8 - YZ	8	
38		613754001	PLUG - SIGHT .75-16 ZC	1	

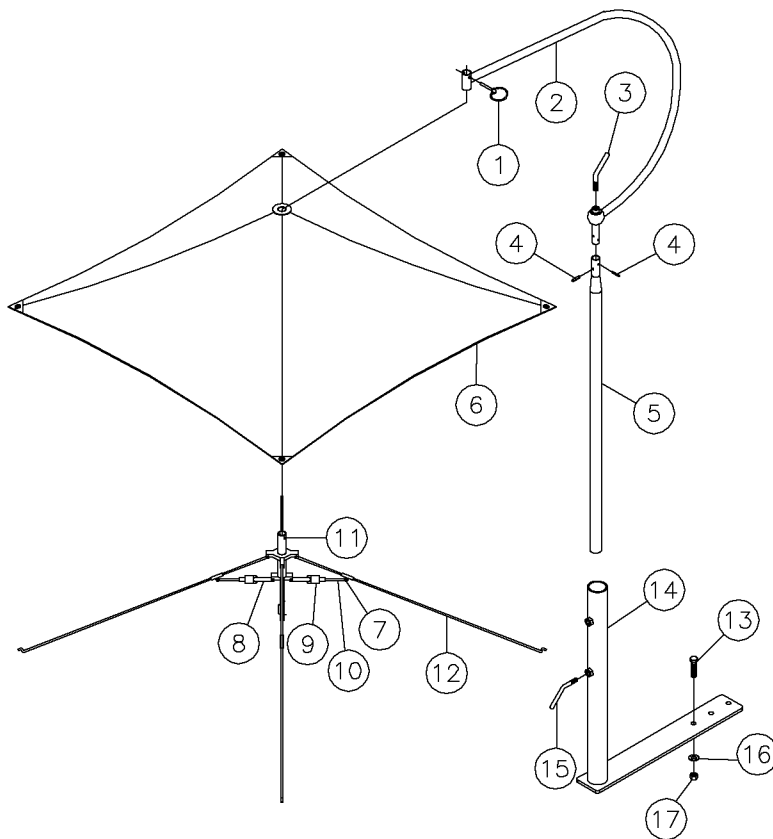
Rotation Gearbox Fig 2-12



Rotation Gearbox Fig 2-12

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280752	GEARBOX - ROTATION (MACH)	1	
2		1715013	TIMKEN CUP-2 1/2" #3920	1	
3		4771061	BRG. CONE 3994	1	
4		251223001	GEAR - 29 TOOTH 2.25 FACE	1	
5		296279983	GEAR - 37T - 4DP	1	
6		1715085	CUP-BEARING	1	
7		1716099	CONE-2 1/8" BRG.	1	
8		215350001	SLEEVE-SEAL	1	
9		278767001	NUT - 50X18-4000# SPEITH-LOCK	1	
10		296279996	GLAND - REAR SEAL	1	
11		214202001	O-RING #138	1	
12		296273549	SEAL-4.000"-LIP	1	
13		228180001	O-RING -#252 7OD BUNA-N	1	
14		296279995	GLAND - FRONT SEAL	1	
15		296273548	SEAL-3. 125"-LIP	1	
16		228181001	O-RING -#243 7OD BUNA-N	1	
17		296279993	SHAFT - ROTATION	1	
18		296279994	SPACER - GEARBOX	1	
19		296280755	COVER - REMOVABLE GEARBOX	1	
20		296273639	FITTING - 16MNPT - 2FNPT - HEX -YZ	1	
21		599001	BREATHER VENT-1/8 NPT 131000	1	
22		276390001	SWIVEL-1"NPT1500#1250RPM/46PGM	1	
23		224896250	SNAP RING-2 1/2" EXTERNAL	1	
24		296273519	SNAP RING (HO-237)	2	
25		78185027	O-RING # 407228	2	
26		523005	SCREW-1/4-20X1/4 SOCKET HD.SET	2	
27		78202001	PLUG-1/4NPT SOCKET HEAD PIPE	2	
28		296271254	PIN - FLOATING HEAD	2	
29		296265249	PLATE - WASHER	2	
30		238217001	BOLT-3/4-10X1 1/2 GR8 HEX ZYC	2	
31		296276018	MOUNT HELLER MANN TITON	1	
32		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	34	
33		598001	FITTING-1/4" NF ST GREASE ZERK	2	
34		296280172	PLATE - INDICATOR ARM	1	
35		60904001	1M NPT X 16M JIC 45 DEG ELBOW	1	
36		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	25	
37		235723001	SCREW - HCS - .38 - 16 X 1.50 - GR8 - YZ	8	

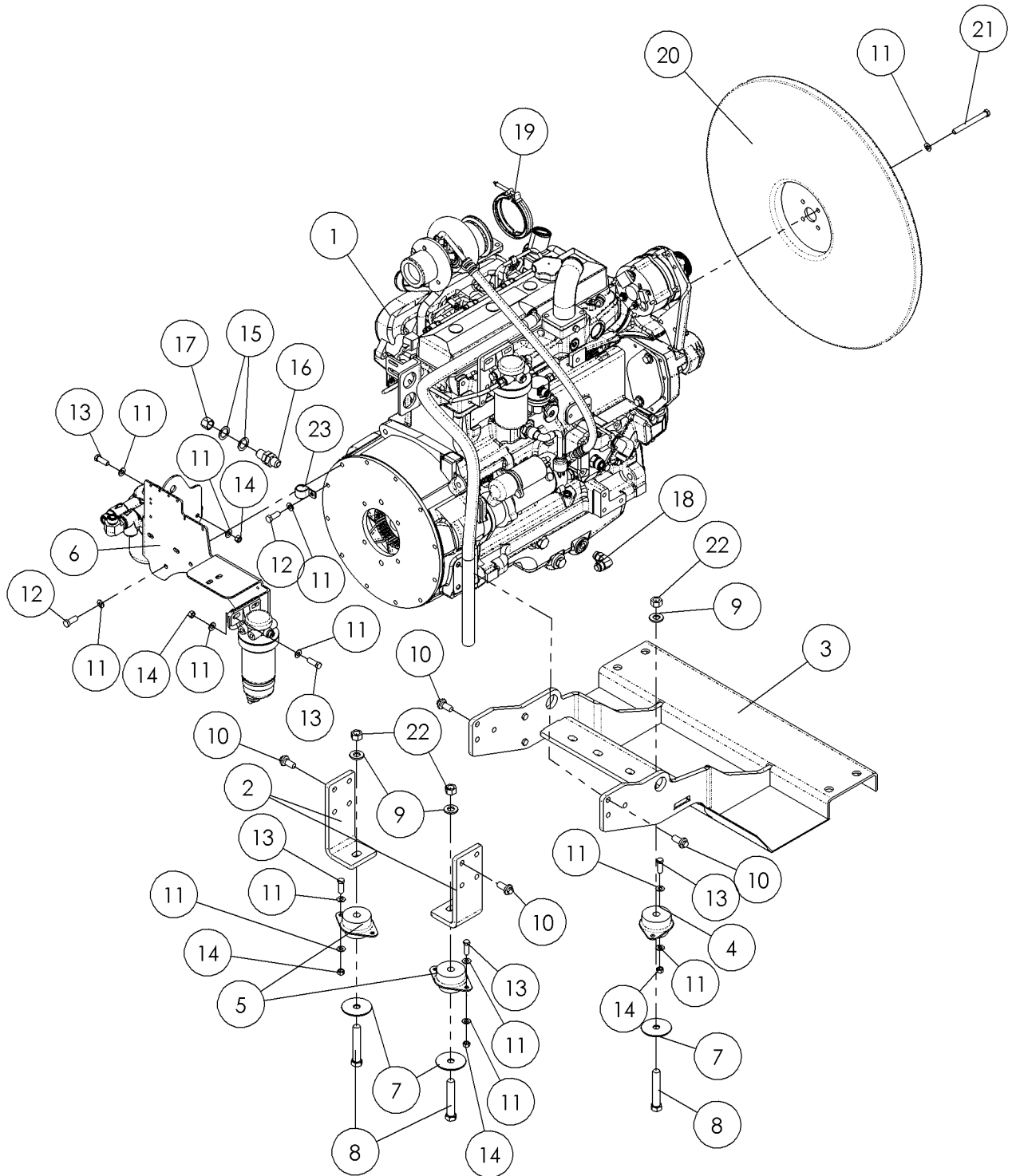
Umbrella Assy Fig 2-13



Umbrella Assy Fig 2-13

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		1797003	PIN-QUICK ATTACHMENT LATCH 1/4"-XCX 6M DIA"	1	
2		238181003	CURVED SHAFT	1	
3		238181005	LOCKING HANDLE	1	
4		1978011	PIN ROLL 3/16 X 1 ZINC	2	
5		238181007	SUPPORT SHAFT-UMBRELLA	1	
6		240103001	SHEATH-UMBRELLA	1	
7		238181011	RIVET-PUSH PIN	12	
8		238181013	TUBE-PUSH ROD	4	
9		238181015	CLIP-PUSH ROD LOCKING SPRING	4	
10		238181017	PUSH ROD	4	
11		238181019	CENTER TUBE W/ SPIDERS	1	
12		238181021	BOW W/ CLEVIS	4	
13		235723001	SCREW - HCS - .38 - 16 X 1.50 - GR8 - YZ	3	
14		296280397	WELDMENT-UMBRELLA MOUNT D24X40II	1	
15		240038001	BOLT-TIGHTENING 3/8"	2	
16		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	3	
17		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	3	
		238181001	UMBRELLA-ASSY (PARTS REPAIR)		Inc. Ref. 1-12
		240102001	FRAME-UMBRELLA		Inc. Ref. 2-5 & 7-12
		296280396	ASSEMBLY-UMBRELLA D24X40II - D36X50II		Inc. Ref. 1-17

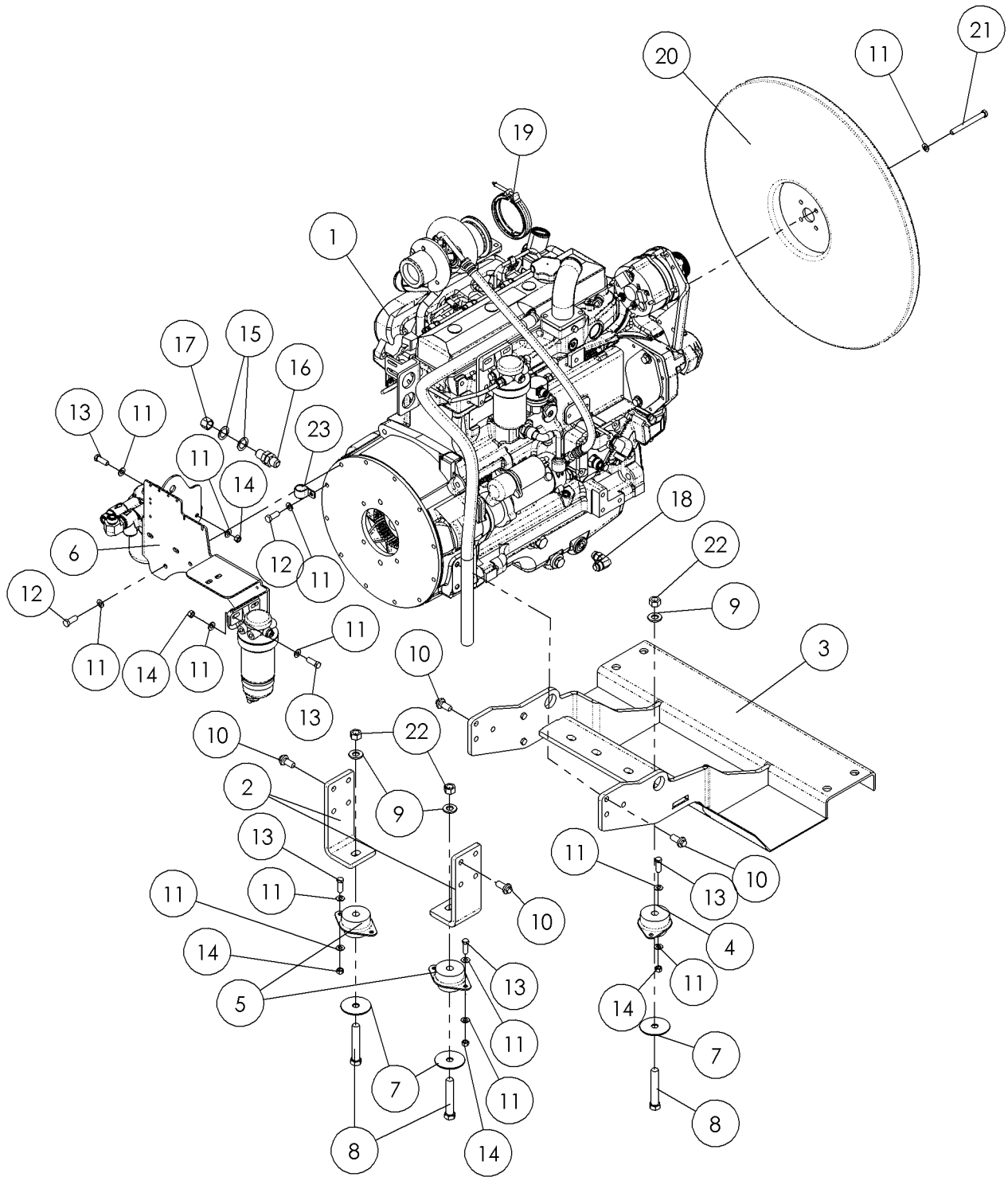
Engine & Mounting Fig 3-1r02



Engine & Mounting Fig 3-1r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Add Serial Number
1		296277754	ENGINE - 140 HP DEERE 4045H	1	
2		296274655	PLATE - ENGINE SUPPORT	2	
3		296280416	MOUNT - FRONT ENGINE	1	S/N 133-
4		296274660	ISOLATOR - ENGINE WHITE	2	
5		296274659	ISOLATOR - ENGINE RED	2	
6		296274626	BRACKET - OIL FILTER	1	
7		220203001	SLUG-ENGINE MOUNT	4	
8		27169-070	BOLT, 5/8-11 UNC X 4.0" GR. 8 HEX	4	
9		235715001	WASHER-5/8 SAE HARD ZINC PLTD	4	
10		507613030	SCREW-HFS,M12-1.75X30,10.9,YZ,ANSI,B18.2.3.9M,PT	14	
11		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	36	1
12		508476030	SCREW-HCS,M10-1.50X30,10.9,YZ,ISO4017,FT	8	
13		235736001	BOLT-3/8-16X1 1/4 ZYC	12	
14		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	12	
15		240756001	WASHER-SERRAID 1 3/8 ODX7/8ID	2	
16		77734001	FITTING-10M JIC BULKHEAD STR.	1	
17		78062001	FITTING - CAP - 10FJ	1	
18		100351001	FITTING-90-10MJ-M18X1.5MORBA	1	
19		285687001	CLAMP - MUFFLER/TURBO	1	
20		296280871	COOLING FAN - 28.25" BLOWER	1	
21		508476110	SCREW-HCS,M10-1.50X110,10.9,YZ,ISO4014,PT	4	
22		250513001	NUT - 5/8NC Gr8 TOP LOCK Y/ZINC	4	
23		2595009	CLAMP-1 1/4 HOSE #7701164	1	

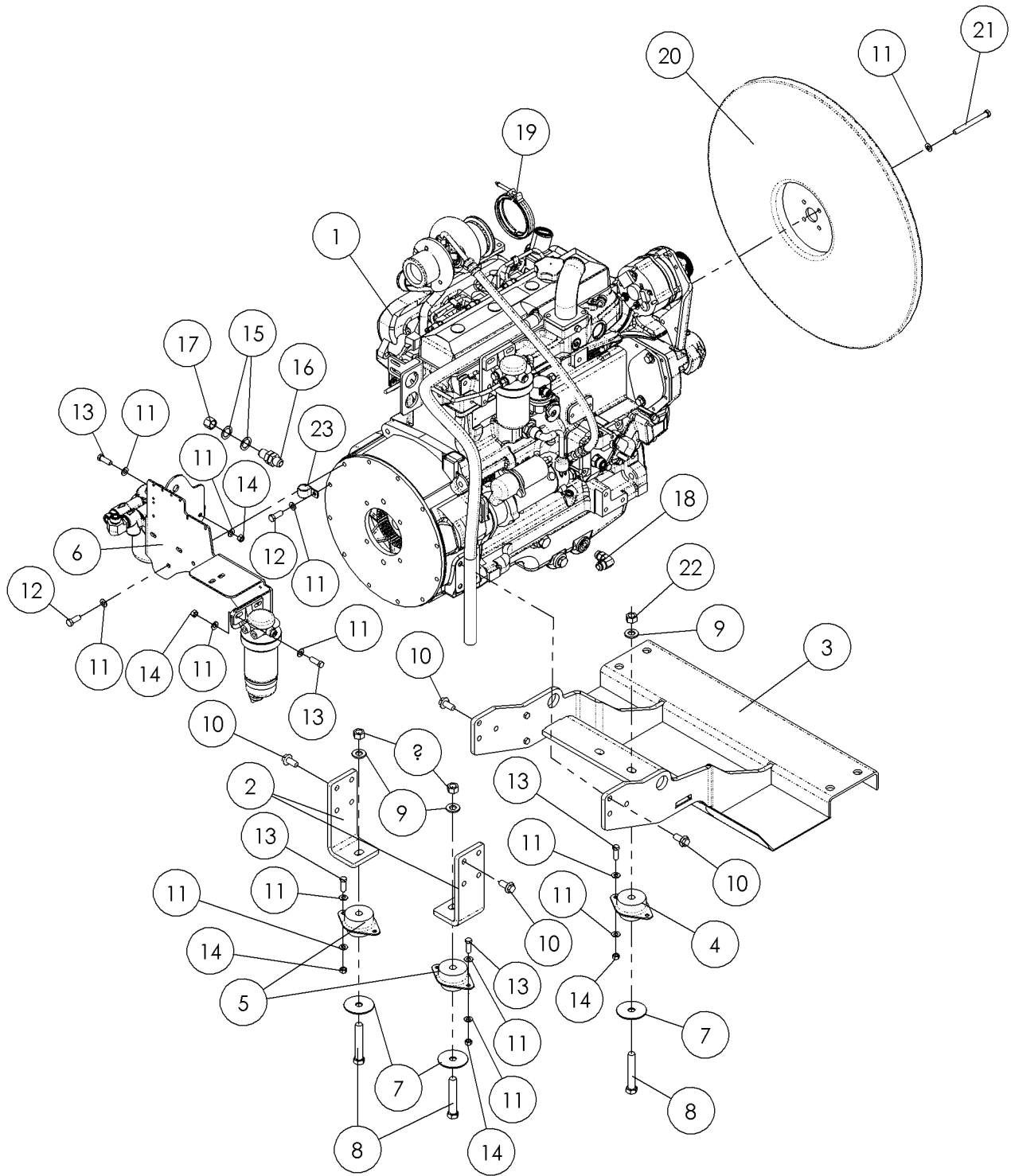
Engine & Mounting Fig 3-1r01



Engine & Mounting Fig 3-1r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296277754	ENGINE - 140 HP DEERE 4045H	1	Breakdown Fig. 3-2 And 3-3
2		296274655	PLATE - ENGINE SUPPORT	2	
3		296280416	MOUNT - FRONT ENGINE	1	
4		296274660	ISOLATOR - ENGINE WHITE	2	
5		296274659	ISOLATOR - ENGINE RED	2	
6		296274626	BRACKET - OIL FILTER	1	
7		220203001	SLUG-ENGINE MOUNT	4	
8		27169-070	BOLT, 5/8-11 UNC X 4.0" GR. 8 HEX	4	
9		235715001	WASHER-5/8 SAE HARD ZINC PLTD	4	
10		507613030	SCREW-HFS,M12-1.75X30,10.9,YZ,ANSI,B18.2.3.9M,PT	14	
11		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	36	
12		508476030	SCREW-HCS,M10-1.50X30,10.9,YZ,ISO4017,FT	8	1
13		235736001	BOLT-3/8-16X1 1/4 ZYC	12	
14		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	12	
15		240756001	WASHER-SERRAID 1 3/8 ODX7/8ID	2	
16		77734001	FITTING-10M JIC BULKHEAD STR.	1	
17		78062001	FITTING - CAP - 10FJ	1	
18		100351001	FITTING-90-10MJ-M18X1.5MORBA	1	
19		285687001	CLAMP - MUFFLER/TURBO	1	
20		296280871	COOLING FAN - 28.25" BLOWER	1	
21		508476110	SCREW-HCS,M10-1.50X110,10.9,YZ,ISO4014,PT	4	
22		250513001	NUT - 5/8NC Gr8 TOP LOCK Y/ZINC	4	
23		2595009	CLAMP-1 1/4 HOSE #7701164	1	

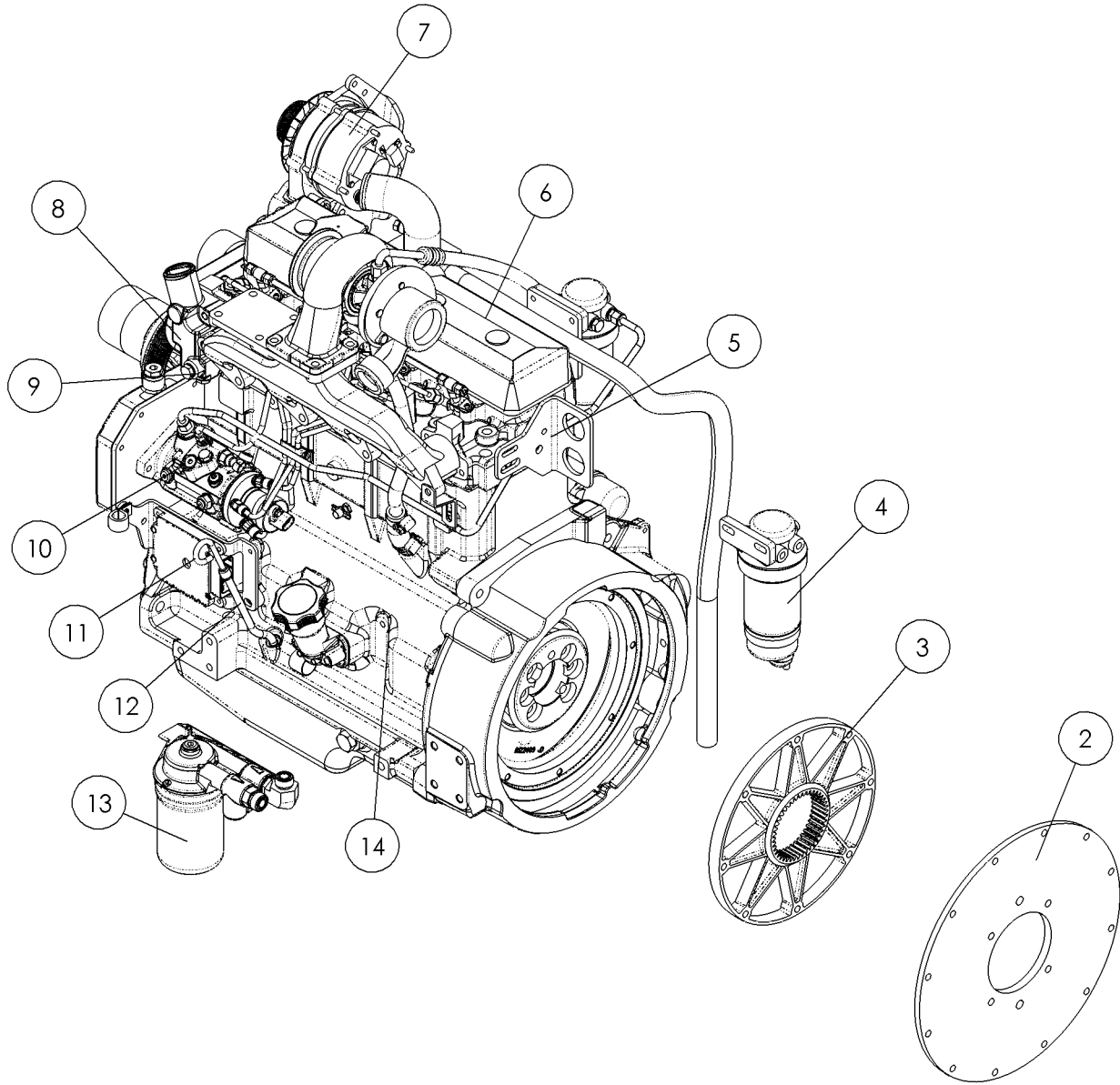
Engine & Mounting Fig 3-1



Engine & Mounting Fig 3-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296277754	ENGINE - 140 HP DEERE 4045H	1	Breakdown Fig. 3-2 & 3-3
2		296274655	PLATE - ENGINE SUPPORT	2	
3		296274644	MOUNT - FRONT ENGINE	1	
4		296274660	ISOLATOR - ENGINE WHITE	1	
5		296274659	ISOLATOR - ENGINE RED	2	
6		296274626	BRACKET - OIL FILTER	1	
7		220203001	SLUG-ENGINE MOUNT	3	
8		27169-070	BOLT, 5/8-11 UNC X 4.0" GR. 8 HEX	3	
9		235715001	WASHER-5/8 SAE HARD ZINC PLTD	3	
10		507613030	SCREW-HFS,M12- 1.75X30,10.9,YZ,ANSI,B18.2.3.9M,PT	14	
11		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	32	
12		508476030	SCREW-HCS,M10- 1.50X30,10.9,YZ,ISO4017,FT	8	
13		235736001	BOLT-3/8-16X1 1/4 ZINC PLTD	10	
14		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	10	
15		240756001	WASHER-SERRAID 1 3/8 ODX7/8ID	2	
16		77734001	FITTING-10M JIC BULKHEAD STR.	1	
17		78062001	FITTING - CAP - 10FJ	1	
18		100351001	FITTING-90-10MJ-M18X1.5MORBA	1	
19		285687001	CLAMP - MUFFLER/TURBO	1	
20		296280871	COOLING FAN - 28.25" BLOWER	1	
21		508476110	SCREW-HCS,M10- 1.50X110,10.9,YZ,ISO4014,PT	4	
22		250513001	NUT - 5/8NC Gr8 TOP LOCK Y/ZINC	3	
23		2595009	CLAMP-1 1/4 HOSE #7701164	1	

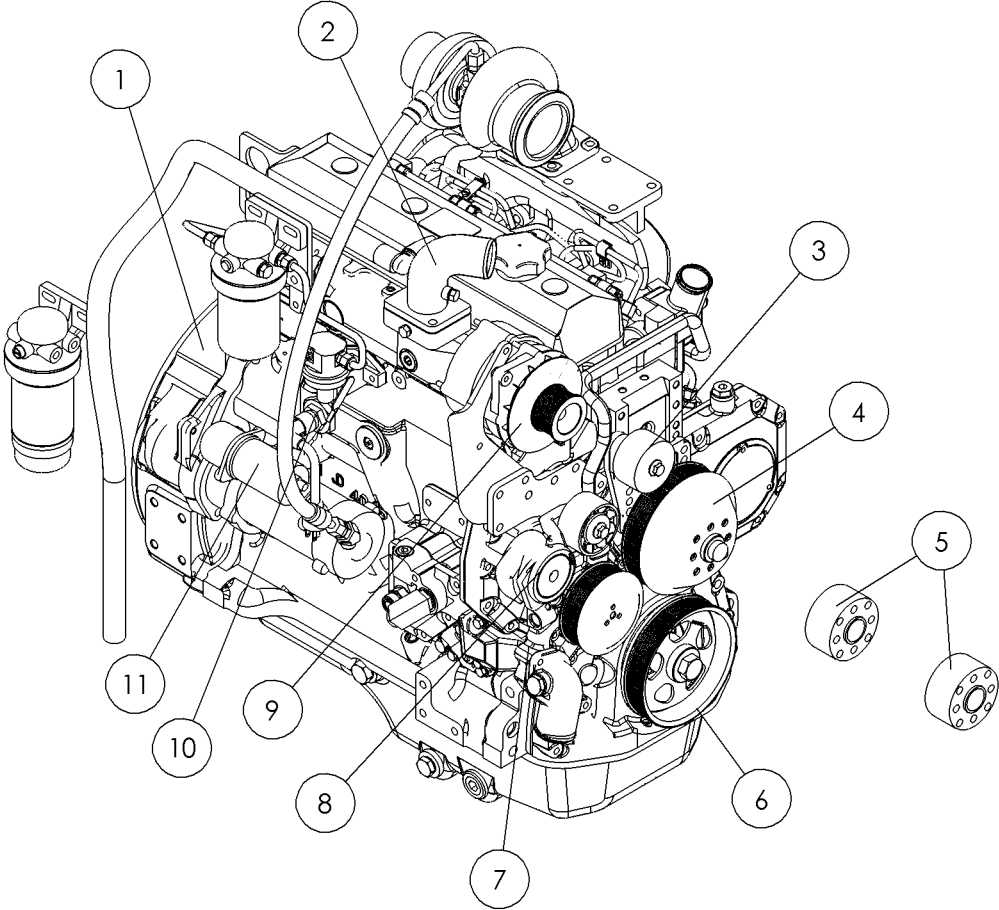
Engine Components - 1 Fig 3-2



Engine Components - 1 Fig 3-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296277754	ENGINE - 140 HP DEERE 4045H	1	
2		609531001	MOUNTING PLATE-#4SAE C PUMP	1	
3		282304001	SPLINED HUB	1	
4		618430001	PRIMARY FUEL FILTER	1	
		296272994	FILTER HEAD	1	
		296272995	SEDIMENT BOWL	1	
5		296272993	BRACKET	1	
6		180005696	SENSOR-OIL PRESSURE	1	
7		180006301	ALTERNATOR-12V, 65 Amp	1	
8		180005647	THERMOSTAT	1	
9		180005687	SWITCH-TEMP	1	
10		180005695	PUMP-FUEL TRANSFER	1	
11		152009001	DIPSTICK	1	
12		152008001	DIPSTICK - TUBE	1	
13		618429001	REMOTE OIL FILTER - 500 HR	1	

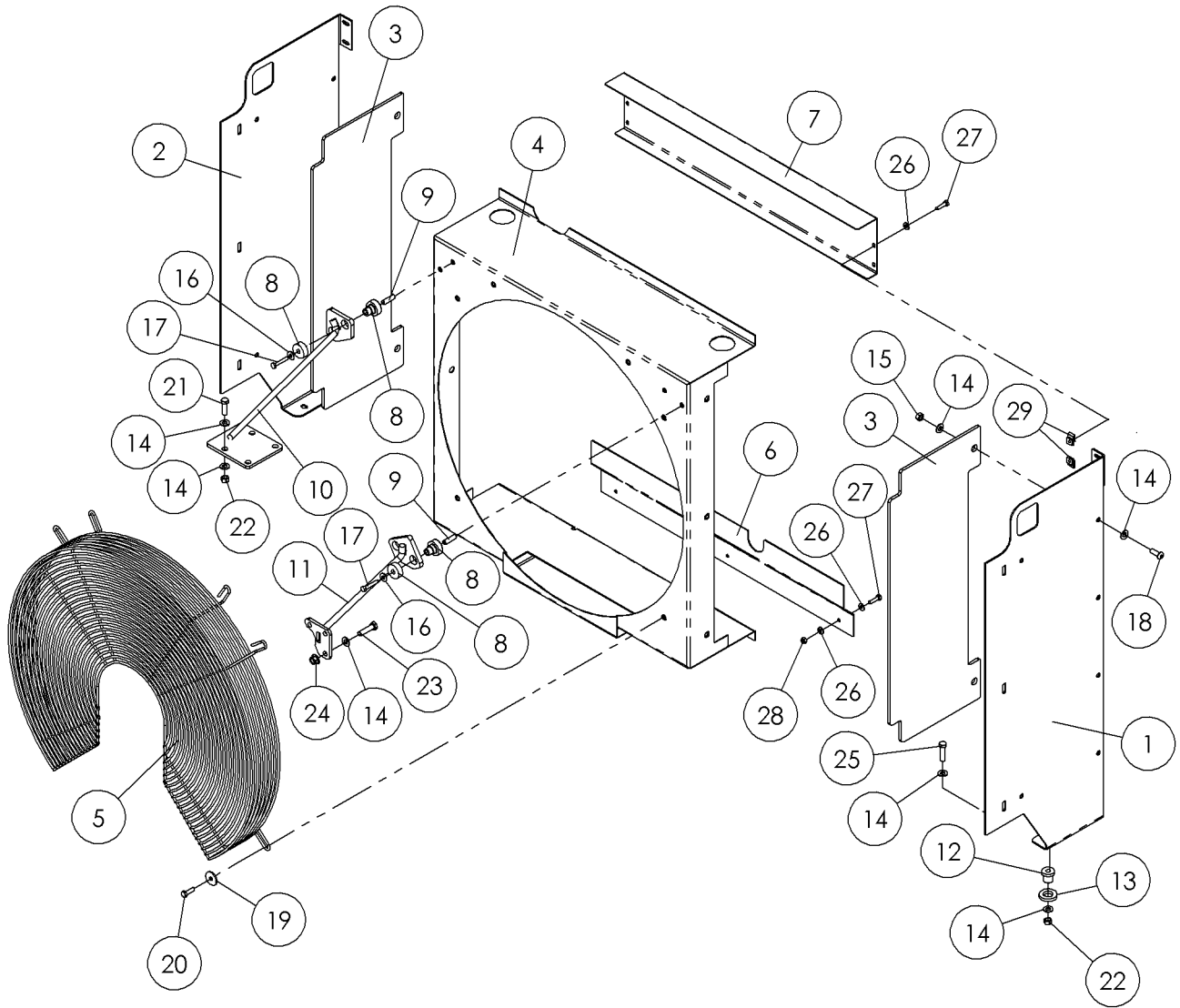
Engine Components - 2 Fig 3-3



Engine Components - 2 Fig 3-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296277754	ENGINE - 140 HP DEERE 4045H	1	
2		296272989	AIR INTAKE	1	
		180005693	GASKET-AIR INLET	1	
		296251840	GASKET	1	
3		296251849	PULLEY	1	
4		131959047	SHEAVE	1	
5		280971001	SPACER - 1 3/4" ENGINE FAN	2	
6		296272907	O-RING	1	
7		180005697	PUMP-WATER	1	
8		296254516	SHEAVE - BELT TENSIONER	1	
9		180006301	ALTERNATOR-12V, 65 Amp	1	
10		296272991	ENGINE HEAD TEMP SENSOR	1	
11		66712001	MOTOR ASSY-STARTING RE62916	1	

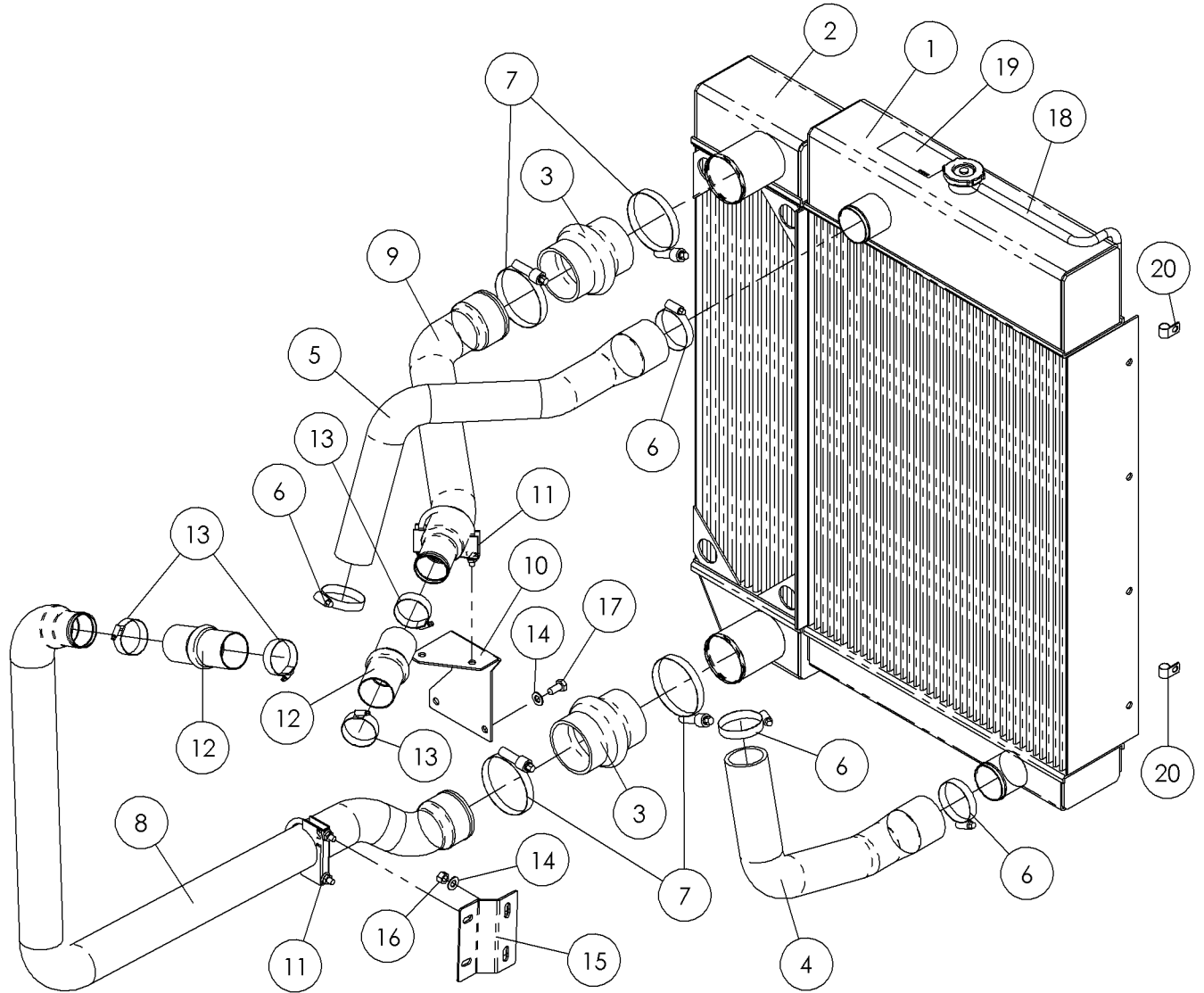
Cooler Shroud Fig 3-4



Cooler Shroud Fig 3-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279967	SUPPORT - RH RADIATOR	1	
2		296279968	SUPPORT - LH RADIATOR	1	
3		296274583	FOAM- RADIATOR SIDE	2	
4		296279974	SHROUD ASSY - FAN	1	
5		180005303	GUARD FAN 28 INCH	1	
6		296280872	PANEL - RECIRCULATION BLOCK	1	
7		296280873	PANEL - RECIRCULATION BLOCK	1	
8		294553001	MOUNT-UPPER RADIATOR ISOLATOR	4	
9		291550001	SPACER-RADIATOR ISOLATOR	4	
10		296274632	STRUT - LH RADIATOR	1	
11		296274631	STRUT - RH RADIATOR	1	
12		294552001	MOUNT-LOWER RADIATOR ISOLATOR	4	
13		291549001	SPACER-LOWER ISOLATOR	4	
14		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	45	
15		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	8	
16		485003	WASHER-1/4 FLAT	4	
17		238210001	BOLT - 1/4-20X1 1/2 GR8 HEX ZYC	4	
18		103978010	BOLT-3/8NCX1 BUT.HD.SOCKET	18	
19		287758001	WASHER - VAC SYSTEM	6	
20		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	6	
21		235736001	BOLT-3/8-16X1 1/4 ZINC PLTD	4	
22		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	8	
23		508476040	SCREW-HCS,M10-1.50X40,10.9,YZ,ISO4017,FT	3	
24		506986010	NUT-HEXFLNG,M10-1.50,CL10,YZ,ISO4161	3	
25		235723001	SCREW - HCS - .38 - 16 X 1.50 - GR8 - YZ	4	
26		252251001	WASHER-1/4 SAE FLAT ZP	10	
27		235735001	BOLT-1/4-20X1 GR8 HEX ZNC PLTD	7	
28		235732001	NUT - HEX - .25 - 20 - GR8 - YZ	3	
29		5549001	NUT-U-CLIP 1/4 NC	4	

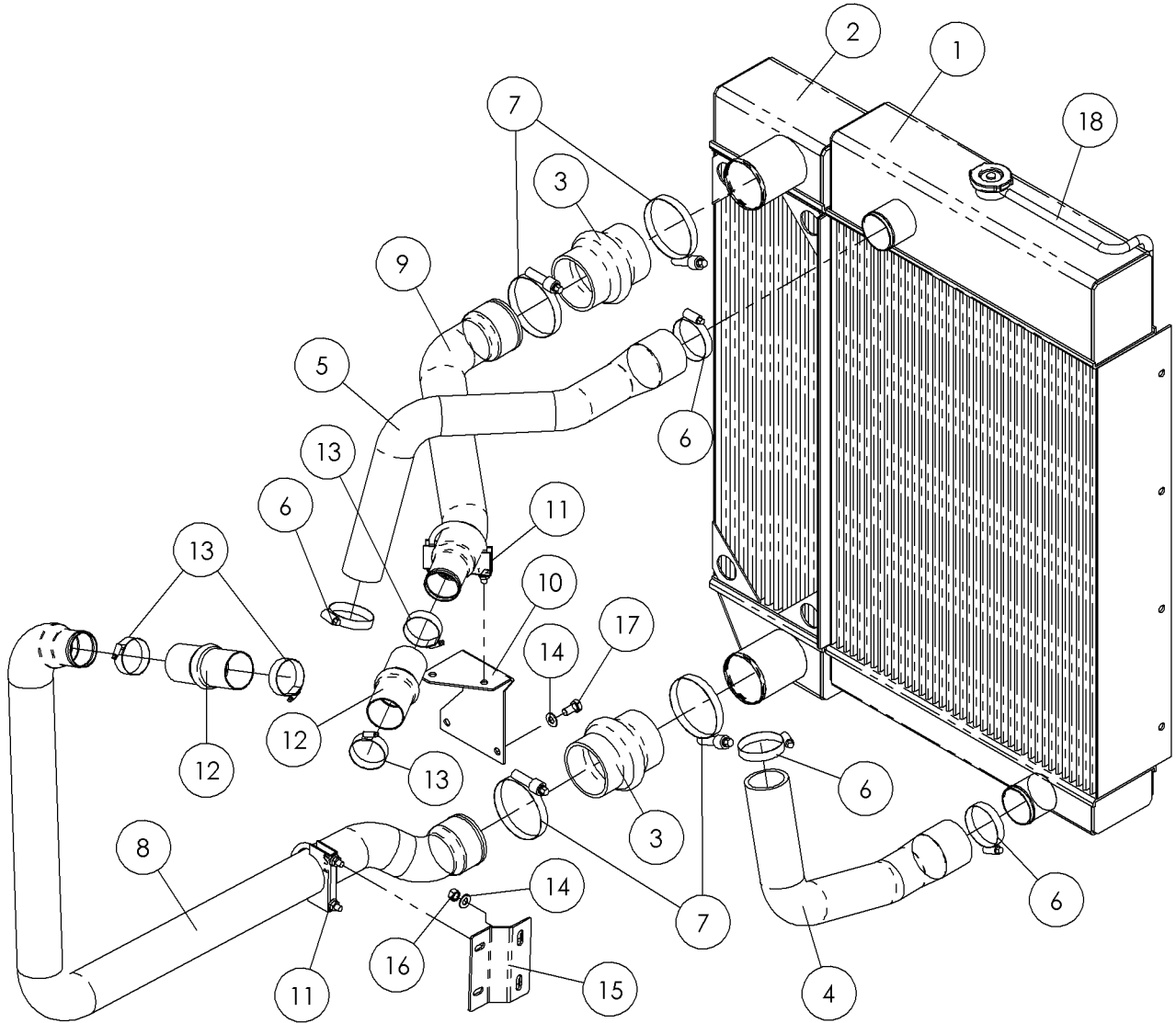
Radiator/Air/Oil Cooler Fig 3-5r01



Radiator/Air/Oil Cooler Fig 3-5r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279966	COOLER - RADIATOR	1	
2		296279965	COOLER - AIR	1	
3		617884001	HOSE- HUMP CAC 3.00 X 3.00 - 4.38	2	
4		296274678	HOSE - RADIATOR LOWER	1	
5		296274677	HOSE - RADIATOR UPPER	1	
6		1580013	HOSE CLAMP - 2 1/2"	4	
7		113095001	HOSE CLAMP-CONST.TRQ. CT350L	4	
8		296274680	TUBE - CHARGE AIR LOWER	1	
9		296274679	TUBE - CHARGE AIR UPPER	1	
10		296274588	BRACKET - UPPER CAC	1	
11		2609007	MUFFLER CLAMP-2 1/2"	2	
12		280917001	CONNECTOR - CAC HUMP HOSE	2	
13		116769001	CLAMP - CON TORQUE 1 3/4 - 2 5/8	4	
14		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
15		296274587	BRACKET - LOWER CAC	1	
16		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	2	
17		508476020	SCREW-HCS,M10-1.50X20,10.9,YZ,ISO4017,FT	2	
18		296284053	HOSE - ANTIFREEZE OVERFLOW 5/16 X 50"	1	
19		2326315	DECAL-WARNING	1	Domestic
		2326I315	DECAL-WARNING	1	International
20		279015001	HOSE CLAMP - 9/16 W/13/32 HOLE	2	

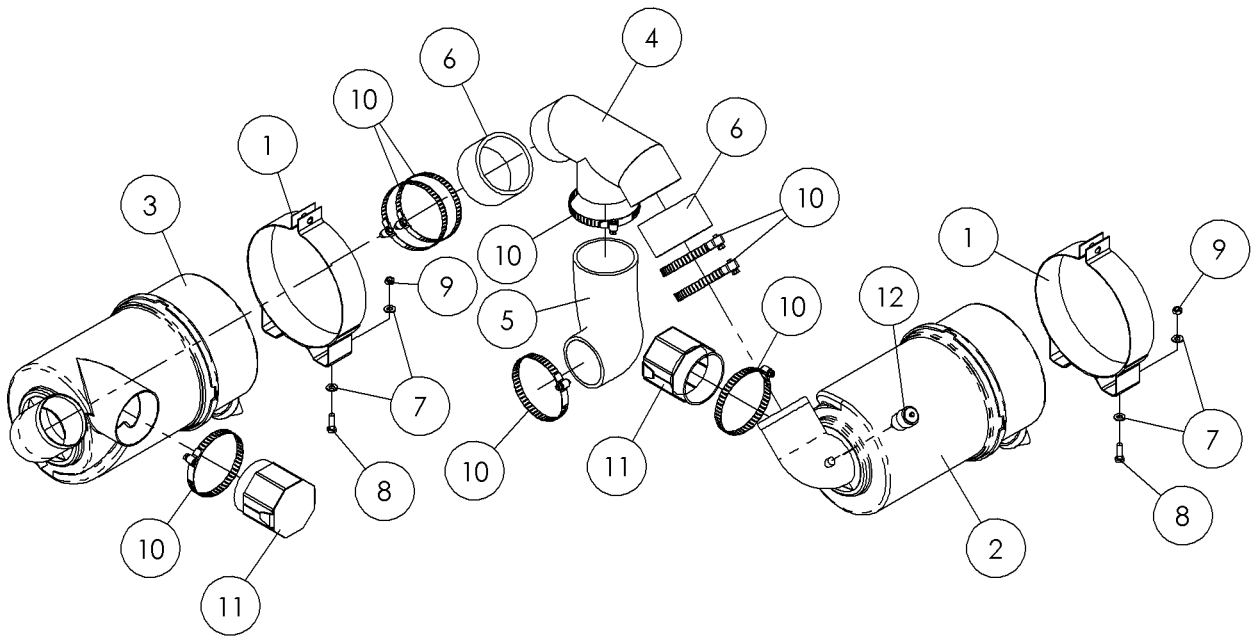
Radiator/Air/Oil Cooler Fig 3-5



Radiator/Air/Oil Cooler Fig 3-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279966	COOLER - RAD	1	
2		296279965	COOLER - AIR	1	
3		617884001	HOSE-HUMP CAC 3.0	2	
4		296274678	HOSE - RADIATOR LOWER	1	
5		296274677	HOSE - RADIATOR UPPER	1	
6		1580013	HOSE CLAMP - 2 1/2"	4	
7		113095001	HOSE CLAMP-CONST.TRQ. CT350L	4	
8		296274680	TUBE - CHARGE AIR LOWER	1	
9		296274679	TUBE - CAC UPPER	1	
10		296274588	BRACKET - UPPER CAC	1	
11		2609007	MUFFLER CLAMP-2 1/2"	2	
12		280917001	CONNECTOR-CAC HUMP HOSE	2	
13		116769001	CLAMP - CON TORQUE 1 3/4 - 2 5/8	4	
14		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	4	
15		296274587	BRACKET - LOWER CAC	1	
16		250508001	NUT-TLHEX-.38-16-C-YZ	2	
17		508476020	SCREW-HCS-M10-1.50X20-	2	
18		296284053	HOSE - ANTIFREEZE OVERFLOW 5/16" X 50"	1	

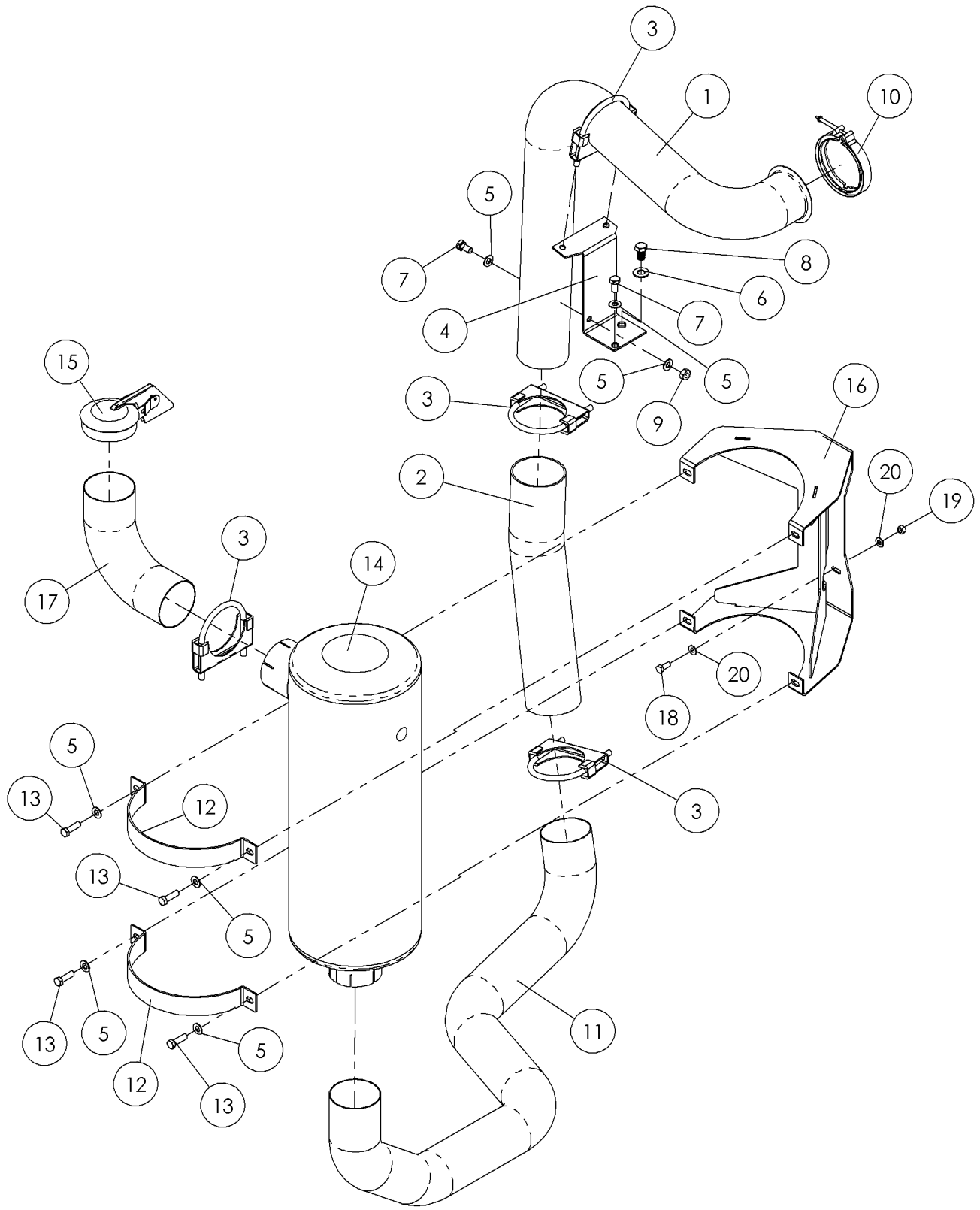
Air Cleaner Fig 3-6



Air Cleaner Fig 3-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		220167001	CLAMP-AIR CLEANER H00-2023	2	
2		224847001	AIR CLEANER	1	Breakdown Fig. 11-53
3		224847001	AIR CLEANER	1	Breakdown Fig. 11-53
4		296280371	WELDMENT - MANIFOLD - INTAKE AIR	1	
5		296274693	HOSE - 3.5" -3 XCX INLET AIR	1	
6		296274582	HOSE - 3.5" CONNECTOR	2	
7		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	8	
8		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	4	
9		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	4	
10		1580019	HOSE CLAMP - 4 1/2"	8	
11		296277941	COVER - INLET AIR	2	
12		2164001	INDICATOR - RAX00-2351	1	

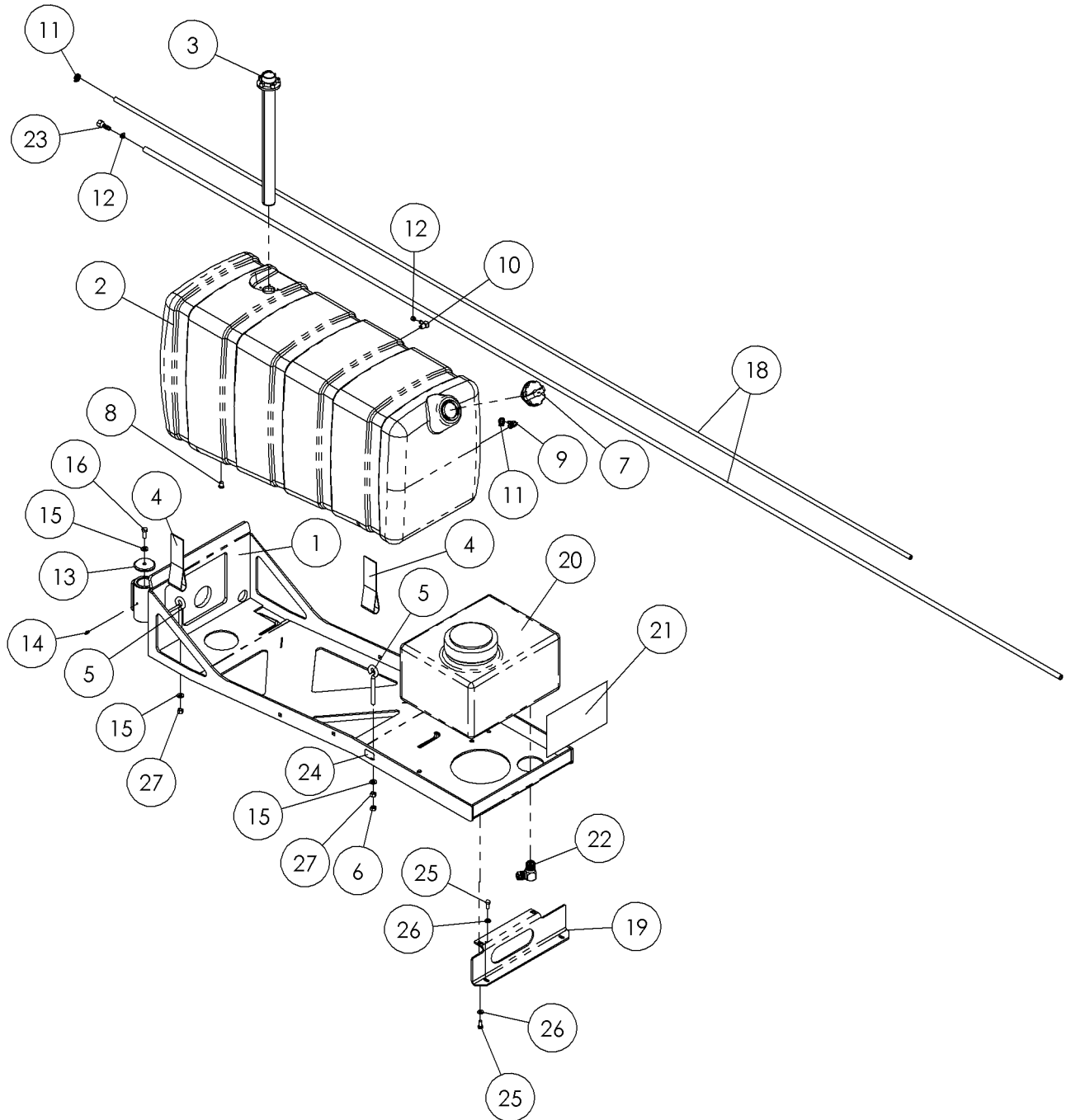
Exhaust Fig 3-7



Exhaust Fig 3-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296274687	TUBE- 3.5" EXHAUST	1	
2		296274722	TUBE - 3.5" X 18" FLEX EXHAUST	1	
3		2609013	CLAMP-MUFFLER 3 1/2	5	
4		296274586	BRACKET EXHAUST	1	
5		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	7	
6		485025	WASHER-1/2 FLAT-HARDENED-YZ	1	
7		508476020	SCREW-HCS,M10-1.50X20,10.9,YZ,ISO4017,FT	2	
8		507407020	SCREW-HCS,M12-1.75X20,10.9,YZ,ISO4017,FT	1	
9		61656001	NUT-HEX M10-1.50 CL8 YZ D934	1	
10		285687001	CLAMP - MUFFLER/TURBO	1	
11		296279822	TUBE - LOWER EXHAUST WRAPPED	1	
12		296274676	STRAP - MUFFLER CLAMP	2	
13		235736001	BOLT-3/8-16X1 1/4 ZINC PLTD	4	
14		296280907	MUFFLER - 3.5" SIDE OUTLET	1	
15		287964001	CAP-RAIN	1	
16		296280764	BRACKET ASSY - MUFFLER SUPPORT	1	
17		296280908	ELBOW - 90 DEG 3.5"	1	
18		235742001	BOLT-5/16-18X3/4 GR8 ZINC PLTD	2	
19		240333001	NUT-5/16-18 GR8 TL ZINC PLTD	2	
20		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	4	

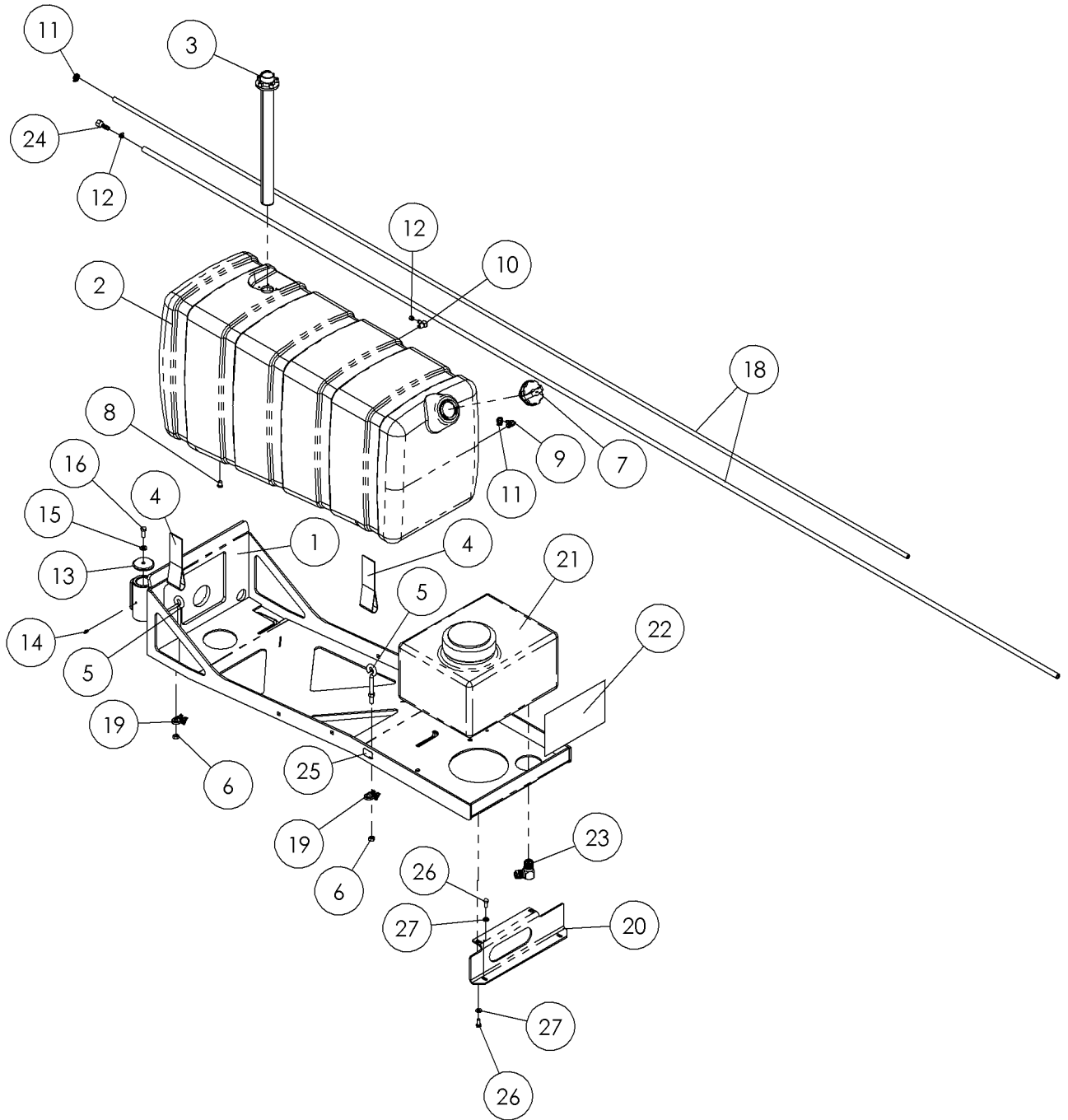
Fuel Tank Fig 3-8r03



Fuel Tank Fig 3-8r03

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296280773	MOUNT ASSY - PIVOTING FUEL TANK	1	
2		289602001	FUEL TANK	1	
3		292038001	SENDER - FUEL LEVEL	1	
4		287698001	STRAP - FUEL TANK	2	
5		279374001	BOLT - 3/8-16 X 5 1/2 EYE	2	
6		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	2	
7		279326001	CAP - DIESEL FUEL W/LOCK	1	
8		282126001	FITTING - 1/4 BRASS HEX PLUG	1	
9		602037001	FITTING -1/4 PIPE 5/16 BARB 90	1	
10		603184001	FITT.-3/8 BARBX1/4M NPT 90DEG	1	
11		1578001	HOSE CLAMP - 1/4" REF T12922	2	
12		1580001	HOSE CLAMP - 3/8" REF T11965	2	
13		285625001	PLATE - COMB HOLD DOWN WSH.	1	
14		598001	FITTING-1/4" NF ST GREASE ZERK	1	
15		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	5	
16		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	1	
17		296280221	HOSE - FUEL SUPPLY 3/8" X 152"	1	
18		296277783	HOSE - FUEL RETURN 5/16 X 132"	1	
19		296280978	SUPPORT - FUEL TANK	1	
20		236466001	TANK-6 GALLON POLY	1	
21		70000675	DECAL-NAVIGATOR FREEZE GUARD	1	
22		56215001	FITTING-3/4M PIPE-#12M JIC 90	1	
23		296280466	FITTING-5FS JIC X 6 HOSE BARB-ST	1	
24		70000098	DECAL-DIESEL (AT/UND)	1	
25		235742001	BOLT-5/16-18X3/4 GR8 ZYC	4	
26		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	4	
27		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	2	

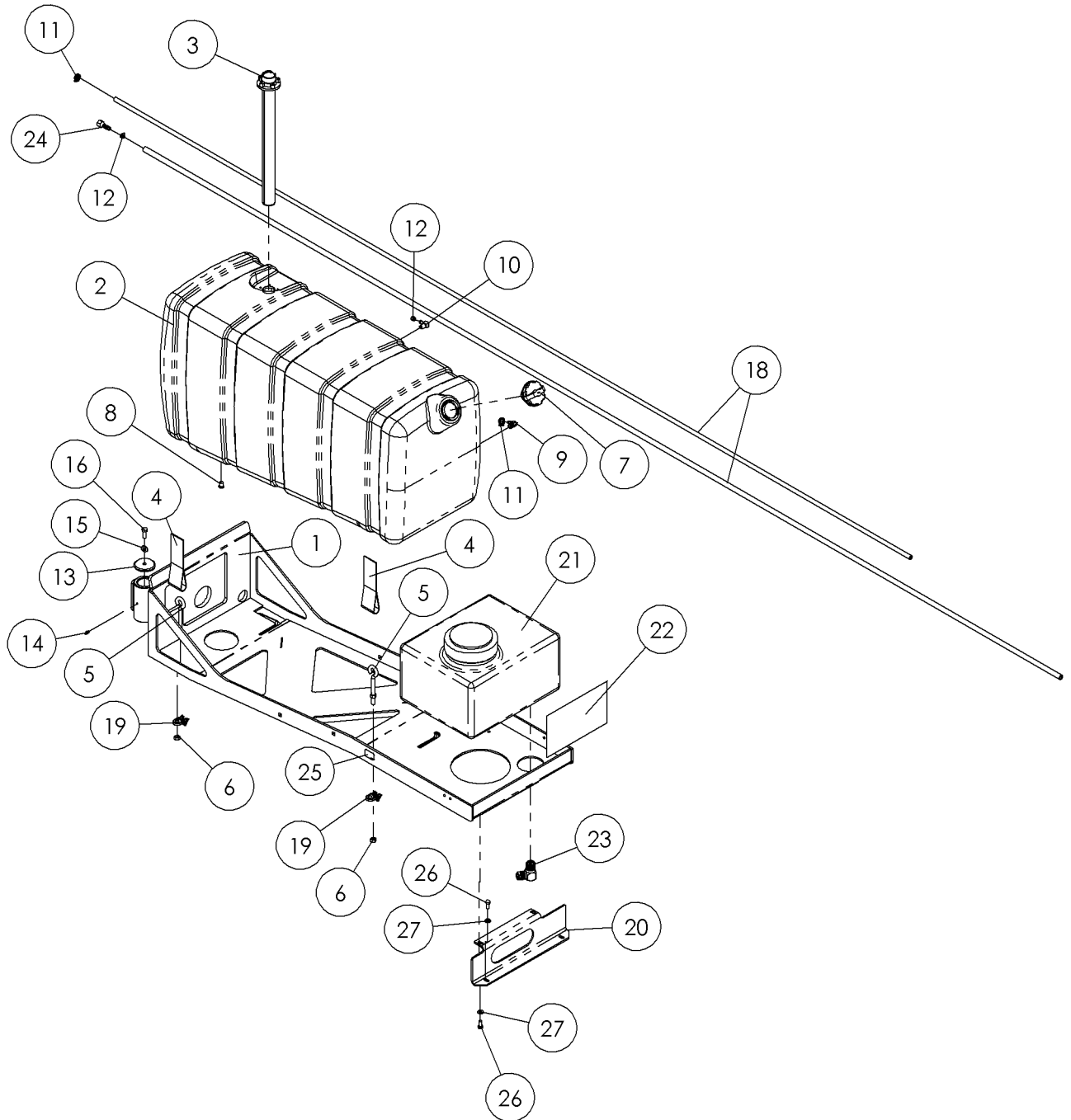
Fuel Tank Fig 3-8r02



Fuel Tank Fig 3-8r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2005		Update In Illustration & Parts List.
1		296280773	MOUNT ASSY - PIVOTING FUEL TANK	1	
2		289602001	FUEL TANK	1	
3		292038001	SENDER - FUEL LEVEL	1	
4		287698001	STRAP - FUEL TANK	2	
5		279374001	BOLT - 3/8-16 X 5 1/2 EYE	2	
6		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	4	
7		279326001	CAP - DIESEL FUEL W/LOCK	1	
8		282126001	FITTING - 1/4 BRASS HEX PLUG	1	
9		602037001	FITTING -1/4 PIPE 5/16 BARB 90	1	
10		603184001	FITT.-3/8 BARBX1/4M NPT 90DEG	1	
11		1578001	HOSE CLAMP - 1/4"	2	
12		1580001	HOSE CLAMP - 3/8"	2	
13		285625001	PLATE - COMB HOLD DOWN WSH.	1	
14		598001	FITTING-1/4" NF ST GREASE ZERK	1	
15		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
16		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	1	
17		296280221	HOSE - FUEL SUPPLY 3/8" X 152"	1	
18		296277783	HOSE - FUEL RETURN 5/16 X 132"	1	
19		296276018	MOUNT HELLER MANN TITON	2	
20		296280978	SUPPORT - FUEL TANK	1	
21		236466001	TANK-6 GALLON POLY	1	
22		70000675	DECAL-NAVIGATOR FREEZE GUARD	1	
23		56215001	FITTING-3/4M PIPE-#12M JIC 90	1	
24		296280466	FITTING-5FS JIC X 6 HOSE BARB-ST	1	
25		70000098	DECAL-DIESEL (AT/UND)	1	
26		235742001	BOLT-5/16-18X3/4 GR8 ZYC	4	
27		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	4	

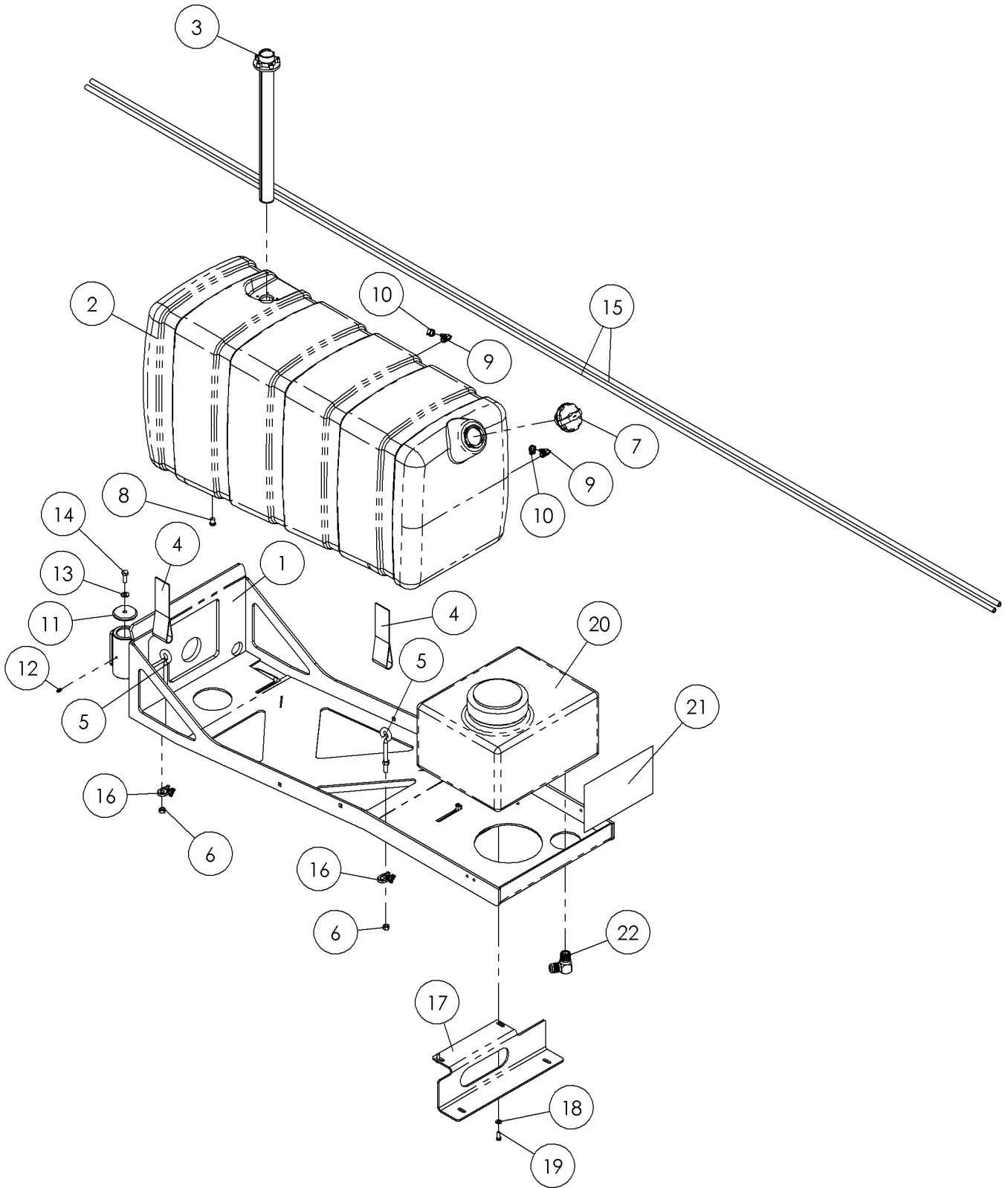
Fuel Tank Fig 3-8r01



Fuel Tank Fig 3-8r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280773	MOUNT ASSY - PIVOTING FUEL TANK	1	
2		289602001	FUEL TANK	1	
3		292038001	SENDER - FUEL LEVEL	1	
4		287698001	STRAP - FUEL TANK	2	
5		279374001	BOLT - 3/8-16 X 5 1/2 EYE	2	
6		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	4	
7		279326001	CAP - DIESEL FUEL W/LOCK	1	
8		282126001	FITTING - 1/4 BRASS HEX PLUG	1	
9		602037001	FITTING -1/4 PIPE 5/16 BARB 90	1	
10		603184001	FITT.-3/8 BARBX1/4M NPT 90DEG	1	
11		1578001	HOSE CLAMP - 1/4"	2	
12		1580001	HOSE CLAMP - 3/8"	2	
13		285625001	PLATE - COMB HOLD DOWN WSH.	1	
14		598001	FITTING-1/4" NF ST GREASE ZERK	1	
15		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
16		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	1	
17		296280221	HOSE - FUEL SUPPLY 3/8" X 152"	1	
18		296277783	HOSE - FUEL RETURN 5/16 X 132"	1	
19		296276018	MOUNT HELLER MANN TITON	2	
20		296280978	SUPPORT - FUEL TANK	1	
21		236466001	TANK-6 GALLON POLY	1	
22		70000675	DECAL-NAVIGATOR FREEZE GUARD	1	
23		56215001	FITTING-3/4M PIPE-#12M JIC 90	1	
24		296280466	FITTING-5FS JIC X 6 HOSE BARB-ST	1	
25		70000098	DECAL-DIESEL (AT/UND)	1	
26		235742001	BOLT-5/16-18X3/4 GR8 ZYC	4	
27		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	4	

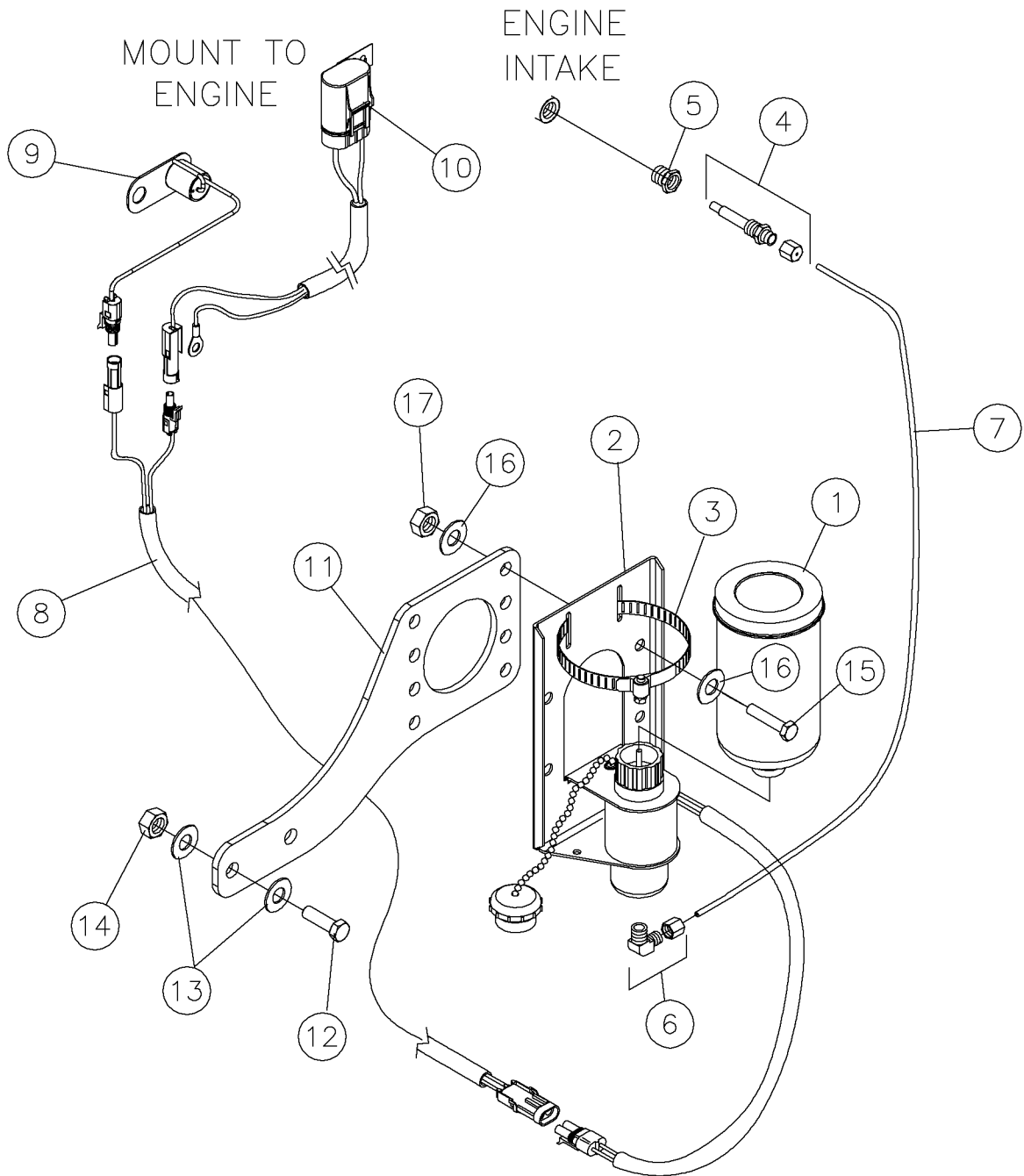
Fuel Tank Fig 3-8



Fuel Tank Fig 3-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280773	MOUNT ASSY - PIVOTING FUEL TANK	1	
2		289602001	FUEL TANK	1	
3		292038001	SENDER - FUEL LEVEL	1	
4		287698001	STRAP - FUEL TANK	2	
5		279374001	BOLT - 3/8-16 X 5 1/2 EYE	2	
6		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	4	
7		279326001	CAP - DIESEL FUEL W/LOCK	1	
8		282126001	FITTING - 1/4 BRASS HEX PLUG	1	
9		602037001	FITTING -1/4 PIPE 5/16 BARB 90	2	
10		1578001	HOSE CLAMP - 1/4"	2	
11		285625001	PLATE - COMB HOLD DOWN WSH.	1	
12		598001	FITTING-1/4" NF ST GREASE ZERK	1	
13		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
14		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1	
15		296277783	HOSE - FUEL RETURN 5/16 X 132"	2	
16		296276018	MOUNT HELLER MANN TITON	2	
17		296280978	SUPPORT - FUEL TANK	1	
18		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	2	
19		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	2	
20		236466001	TANK-6 GALLON POLY	1	
21		70000675	DECAL-NAVIGATOR FREEZE GUARD	1	
22		56215001	FITTING-3/4M PIPE-#12M JIC 90	1	

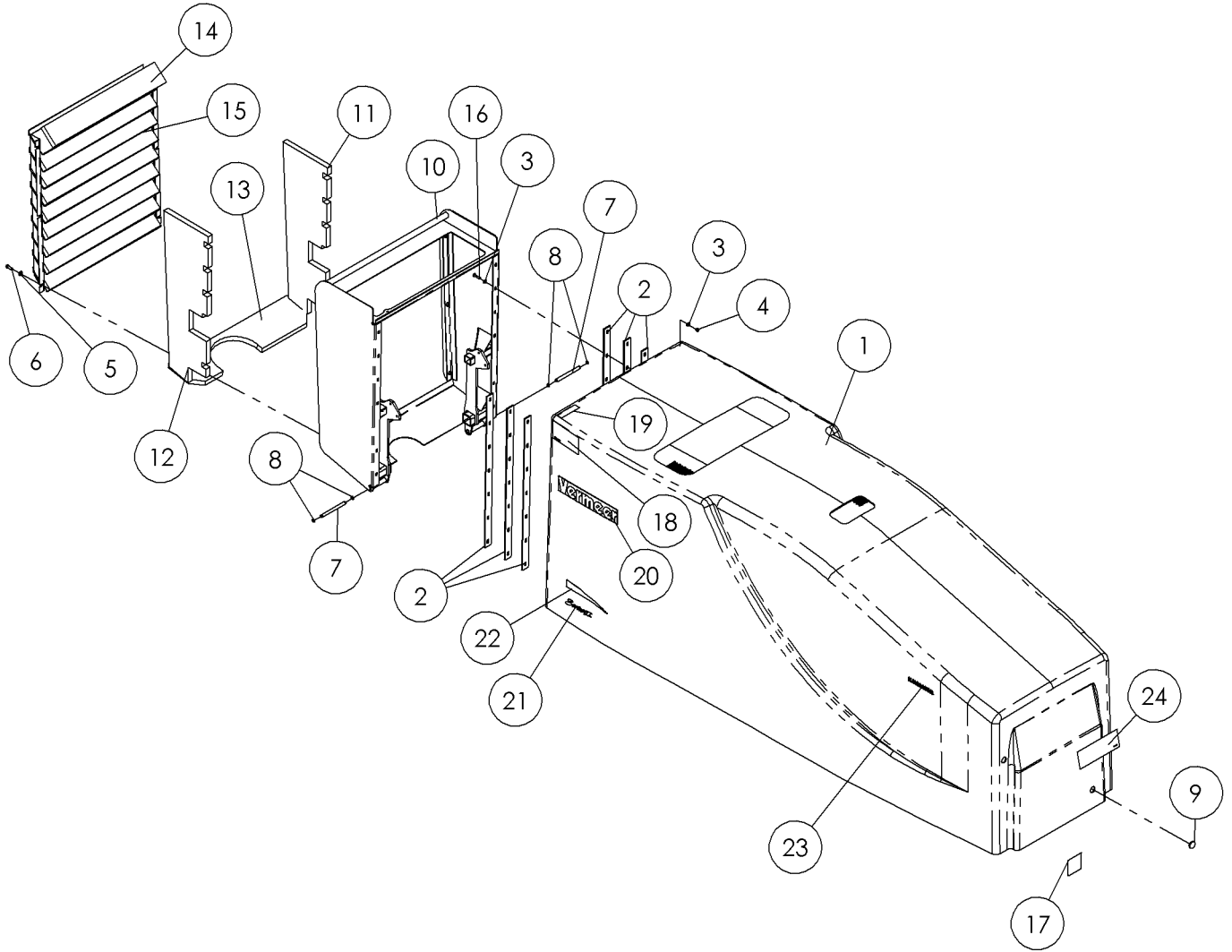
Ether Start System (Optional) Fig 3-9



Ether Start System (Optional) Fig 3-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279823	CYLINDER - 8 OZ ETHER 3" DIA X 6" TALL	1	
2		296281251	ETHER 12V SOLENOID VALVE	1	
3		1580015	HOSE CLAMP - 3"	1	
4		296281253	NOZZLE ASSEMBLY	1	
5		296281252	ADAPTER	1	
6		296281254	BLOCK OR FITTING ASSEMBLY	1	
7		202831001	TUBING-NYLON 1/8OD	A/R	
8		NSS	WIRE HARNESS	1	
9		296281255	SWITCH-ENGINE TEMP SENSOR	1	
10		NSS	FUSE BLOCK HARNESS	1	
11		296277798	BRACKET - ETHER MOUNT	1	
12		235736001	BOLT-3/8-16X1 1/4 ZINC PLTD	2	
13		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
14		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	4	
15		279376001	BOLT - 5/16-18X1 1/2 GR8 HEX ZNC PLT	4	
16		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	8	
17		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	4	
		296277799	KIT - DEERE ETHER PARTS		
			NSS-NOT SOLD SEPARATELY		

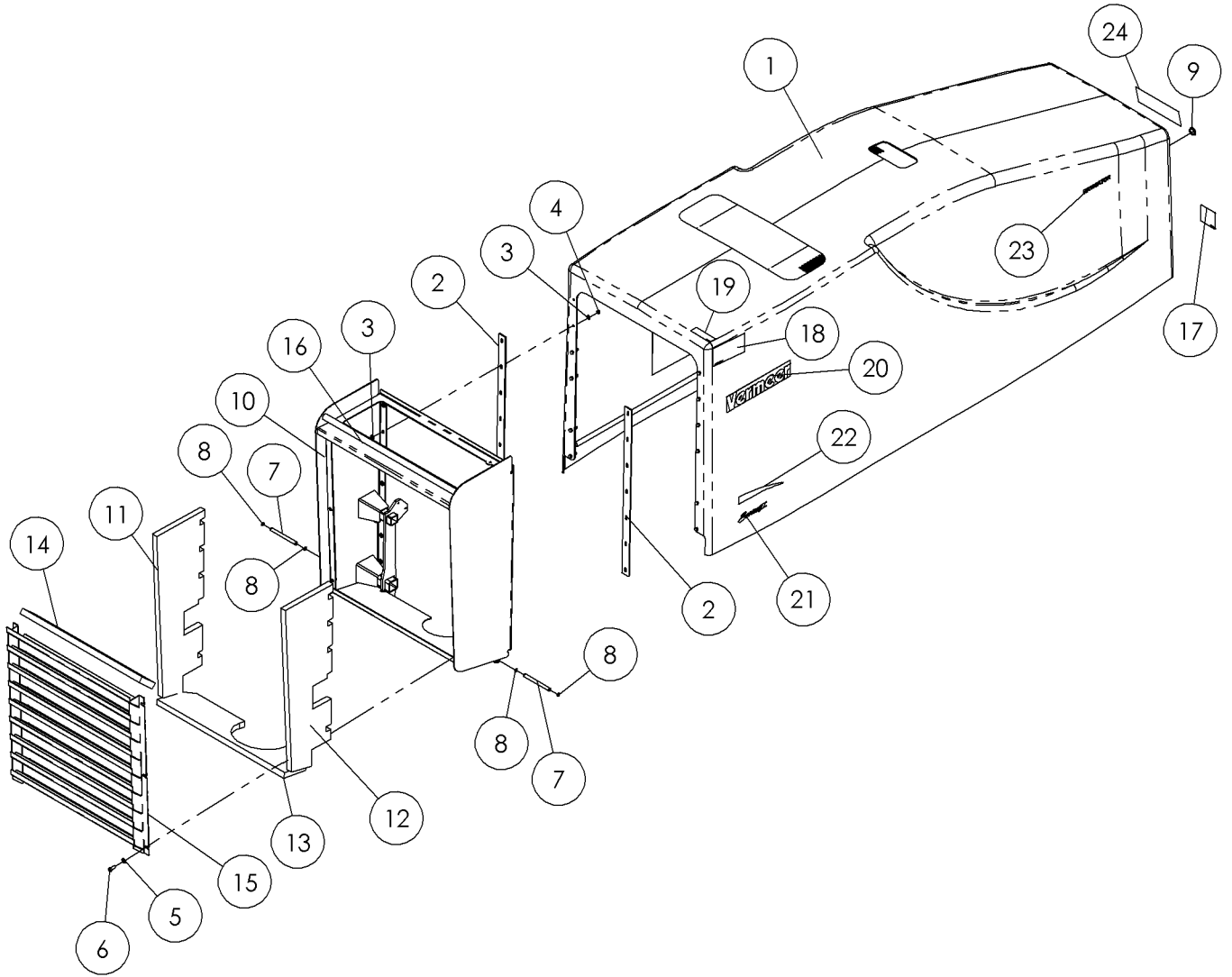
Hood Fig 3-10r01



Hood Fig 3-10r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		296280983	HOOD ASSY - ENGINE COVER	1	
2		278829001	BAR - GRILL MOUNT	6	
3		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ-A325	24	
4		235741001	NUT-HEX-.31-18-GR8-YZ	12	
5		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	6	
6		235727001	SCREW-HCS-.38-16X1.00-GR8-YZ	6	
7		291616001	PIN - 1/2" X 6" USABLE	2	
8		294761001	SNAP RING - .50 SHR 50	4	
9		296280859	PLUG - 1.125"	1	
10		296277849	FRAME - HOOD PIVOT	1	
11		296277871	FOAM - ACOUSTICAL RACK SIDE GRILL	1	
12		296277872	FOAM - ACOUSTICAL OPERATOR SIDE GRILL	1	
13		296277873	FOAM - ACOUSTICAL LOWER GRILL	1	
14		296277867	FOAM - ACOUSTICAL GRILL	9	
15		296277894	GRILL - RADIATOR DISCHARGE	1	
16		248031001	SCREW-HCS-.31-18X1.25-GR8-CZ	12	
17		7000b119	DECAL - PATENT INDUSTRIAL	1	
18		7000a576	DECAL - DANGER	1	Domestic
		700IA576	DECAL-DANGER	1	International
19		7000B388	DECAL - HOOD LATCH	1	
20		2326619	DECAL- VERMEER 3 X 15	1	
21		7000C463	DECAL - SERIES II MEDIUM	1	
22		7000C571	DECAL - D36X50II STRIPE	1	
23		70000614	DECAL-MODEL NAVIGATOR (BIG)	1	
24		700IB812	DECAL - WARNING	1	International
		7000B812	DECAL - WARNING	1	Domestic

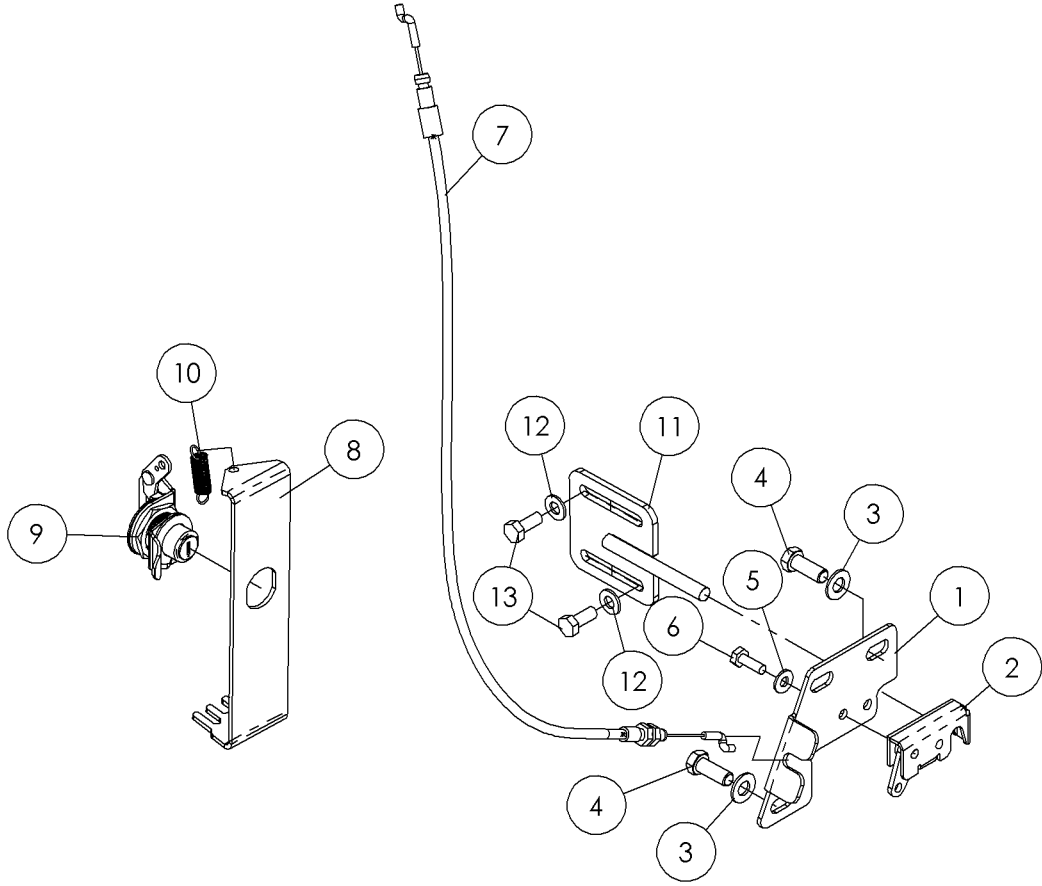
Hood Fig 3-10



Hood Fig 3-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280983	HOOD ASSEMBLY - ENGINE COVER	1	
2		278829001	BAR - GRILLE MOUNT	2	
3		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	24	
4		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	12	
5		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	6	
6		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	6	
7		291616001	PIN - 1/2" X 5.75	2	
8		294761001	SNAP RING - .50 SHR-50	4	
9		296280859	PLUG - 1.125"	1	
10		296277849	FRAME - HOOD PIVOT	1	
11		296277871	FOAM- ACOUSTICAL RACK SIDE GRILL	1	
12		296277872	FOAM- ACOUSTICAL OPERATOR SIDE GRILL	1	
13		296277873	FOAM- ACOUSTICAL LOWER GRILL	1	
14		296277867	FOAM - ACOUSTIC GRILL	9	
15		296277894	GRILL - RADIATOR DISCHARGE	1	
16		248031001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	12	
17		7000B119	DECAL - PATENT INDUSTRIAL	1	
18		7000A576	DECAL-DANGER	1	Domestic
		700IA576	DECAL-DANGER	1	International
19		7000B388	DECAL - HOOD LATCH	1	
20		2326619	DECAL- VERMEER 3 X 15	1	
21		7000C463	DECAL - SERIES II MEDIUM	1	
22		7000c571	DECAL - D36X50 II STRIPE	1	
23		70000614	DECAL-MODEL NAVIGATOR (BIG)	1	
24		700IB812	DECAL - WARNING	1	International
		7000B812	DECAL - WARNING	1	Domestic

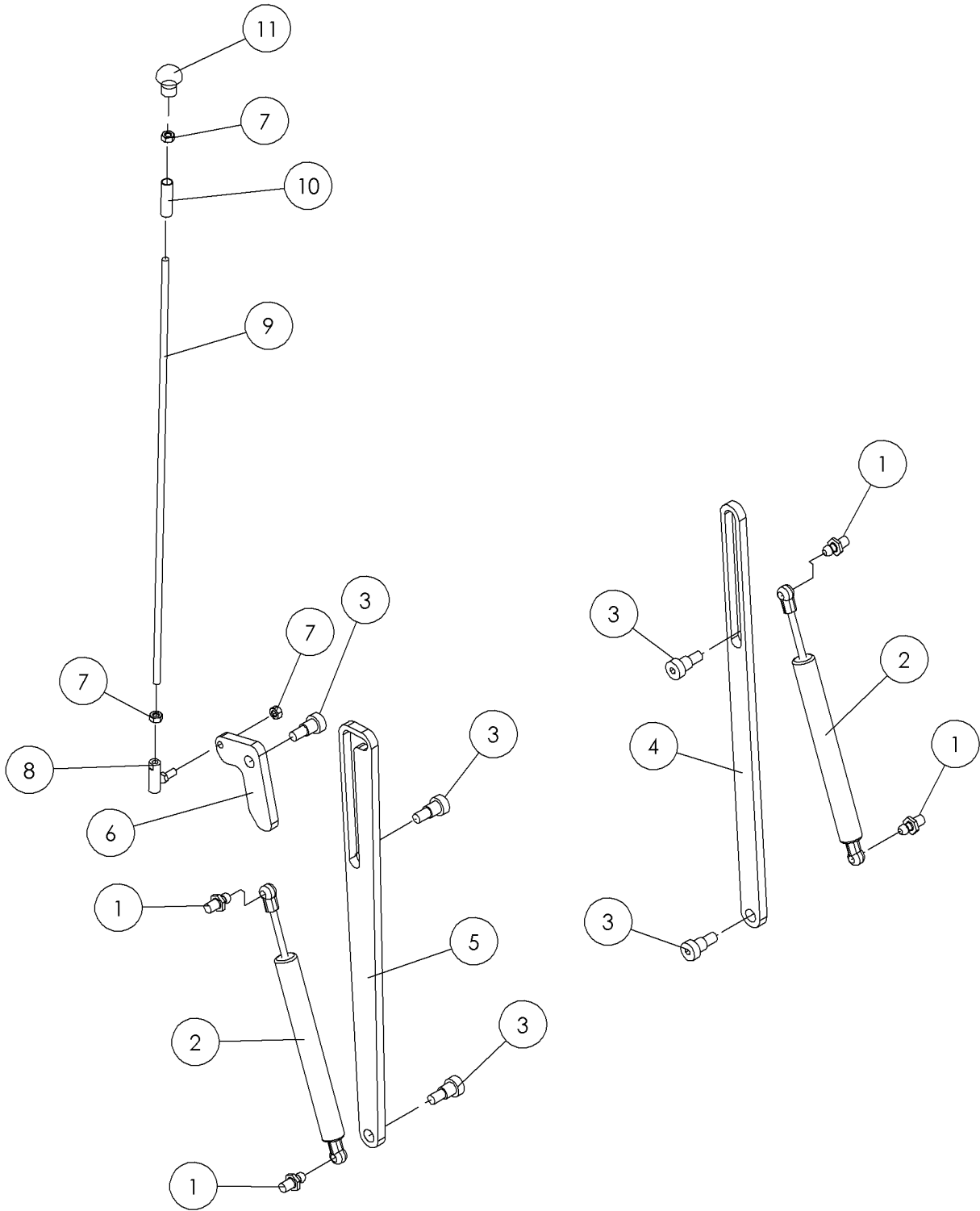
Hood Latch Fig 3-11



Hood Latch Fig 3-11

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296277878	BRACKET - CABLE END	1	
2		159973001	LATCH - MINI ROTARY, RIGHT	1	
		161562001	KEY-LATCH	1	
3		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	3	
4		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	3	
5		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	2	
6		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	2	
7		159972001	CABLE - HOOD RELEASE	1	
8		296279848	BRACKET - HOOD CABLE	1	
9		155985001	LATCH - PUSHBUTTON	1	
10		282052001	SPRING -2084 EXTENSION 1.50"	1	
11		296279837	STRIKER - ADJUSTABLE	1	
12		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	3	
13		235742001	BOLT-5/16-18X3/4 GR8 ZINC PLTD	3	

Hood Pivot Fig 3-12

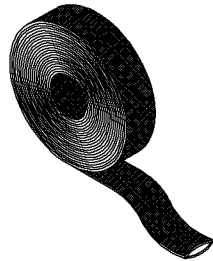


Hood Pivot Fig 3-12

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		285784001	BALL - STUD	4	
2		251144001	SPRING - GAS ASSIST	2	
3		240056001	SCREW-SHSS-.50X.50-.38-16THD-CZ	5	
4		296274624	SLIDE - HOOD CATCH	1	
5		296274625	SLIDE - HOOD LOCK	1	
6		296274628	PIVOT -UNLATCH	1	
7		4734001	NUT-1/4-28 NF HEX	3	
8		1489001	BALL JOINT - 1/4" SP1002 CP	1	
9		296274629	ROD - HOOD LATCH	1	
10		1803089	SPRING-COMP.#30 3/8ODX5/16ID.	1	
11		279113001	KNOB - WEATHERHEAD PUSH-PULL	1	

Miscellaneous Supplies Fig 4-1

CORDURA SLEEVES



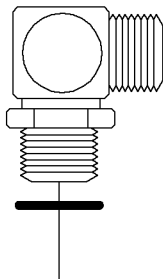
INSIDE DIAMETER	PART NUMBER
.71	83726001
1.22	66094001
1.42	67264001
1.59	69129001
1.81	53840001
2.37	53841001

NOTE: SPECIFY LENGTH WHEN ORDERING

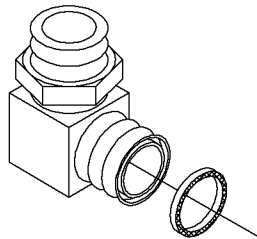
TIE STRAPS

LENGTH	PART NUMBER
4 IN.	78657001
8 IN.	59634001
15 IN.	58151001

O-RINGS



SAE FITTING SIZE	REPLACEMENT O-RING PART NO.
4M	78185027
5M	53649081
6M	59088057
8M	59088053
10M	792029
12M	78518037
14M	64082019
16M	81580001
20M	93316001



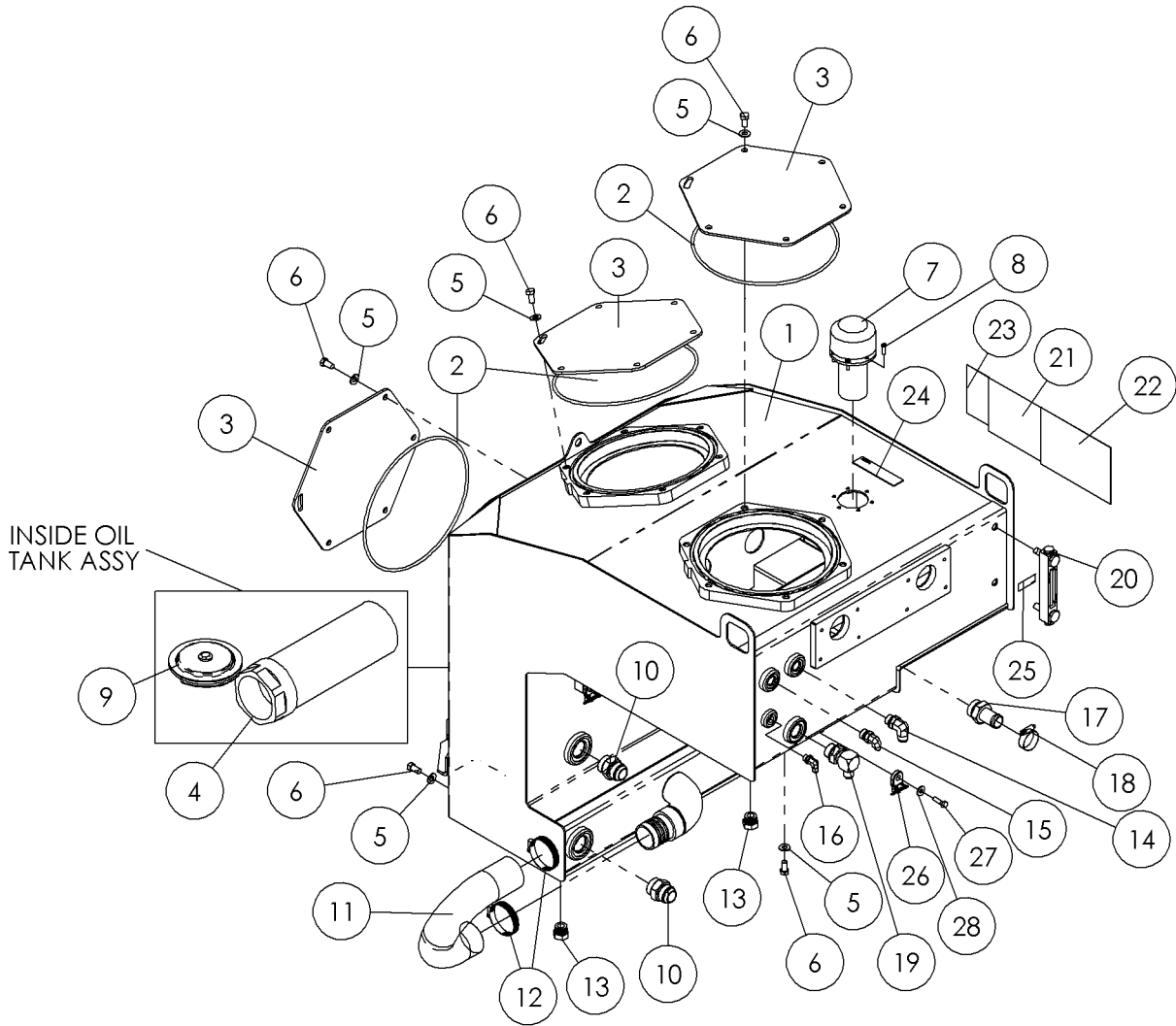
ORS (FLAT FACE) FITTING SIZE	REPLACEMENT O-RING PART NO.
4	93843001
6	93844001
8	93845001
10	93846001
12	93847001
16	93848001
20	93849001
24	93850001

NOTE: O-RINGS LISTED ARE 90 DUROMETER

Miscellaneous Supplies Fig 4-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS

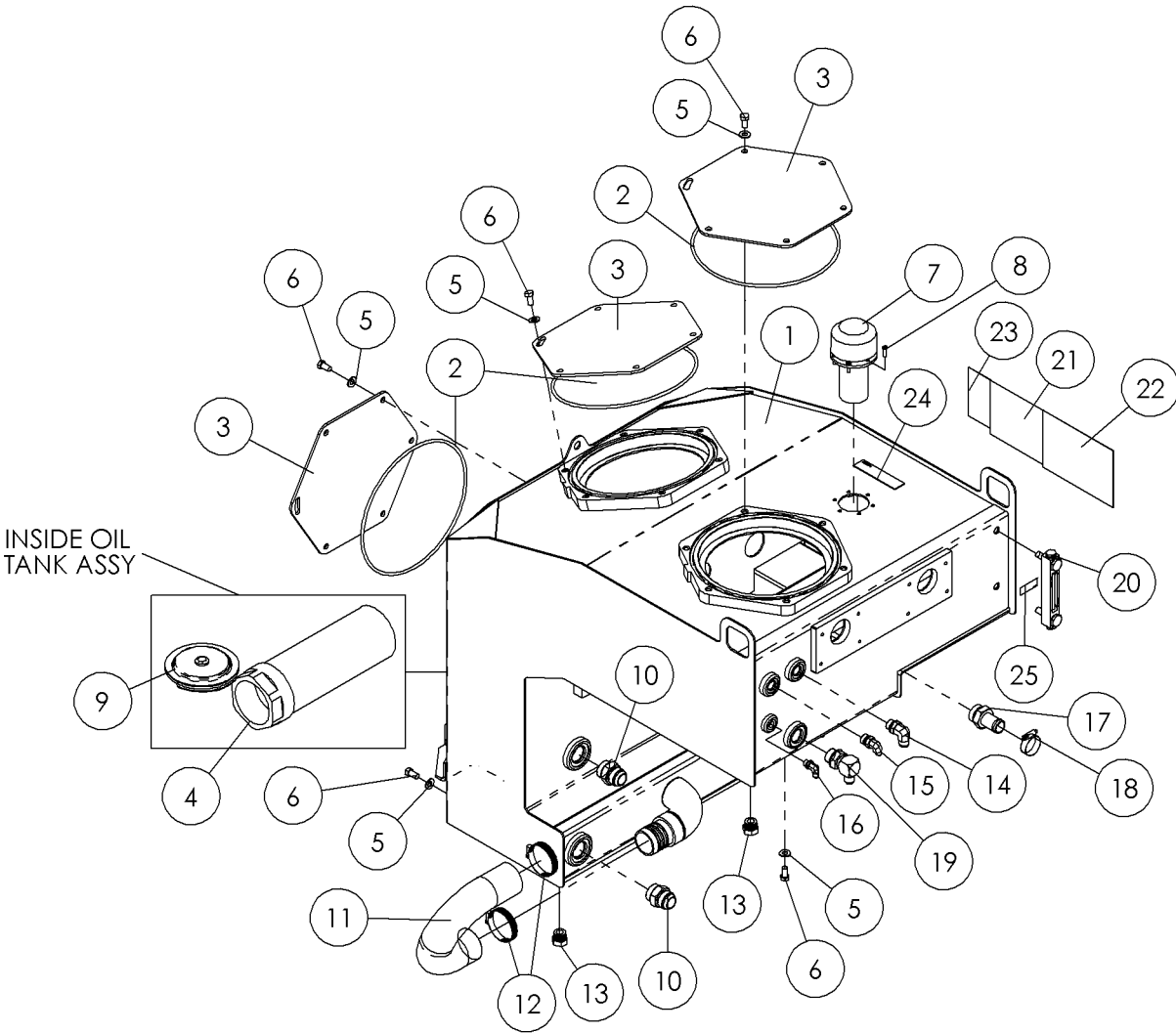
Oil Tank Fig 4-2r01



Oil Tank Fig 4-2r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296277998	TANK - 55 GALLON OIL	1	
2		78544001	O-RING AS-378 B46	3	
3		96291001	PLATE-CLEANOUT PORT	3	
4		98681001	FILTER-TANK 3 NPT OUTLET PORT	1	
5		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	24	
6		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	24	
7		235808001	CAP-FILLER/BREATHING W/O RELIEF	1	
8		1802006	BOLT-10-24 X 3/4 RND HD STOVE	6	
9		296257231	COVER - 6" RESERVOIR END	1	
10		60907001	FITTING-16M JICX16M STR ADAPT	2	
11		251243001	HOSE - PUMP SUCTION	1	
12		1580013	HOSE CLAMP - 2 1/2" REF T08735	2	
13		56218001	FITTING - PLUG - 8MORB - HEX	2	
14		53837001	FITTING - 8M O-RING X 8M JIC 90 DEGREE	1	
15		86671001	FITTING-8M ORING X4M JIC 90 EL	1	
16		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	1	
17		96709001	HOSE INSERT-16MX1 BEAD STR.	1	
18		238094001	CLAMP-3/4X1 3/4 BAND W/SCREW	1	
19		57949001	FITTING-12MX8M JIC 90 DEG. EL.	1	
20		81590001	GAUGE-SIGHT	1	
21		700IC700	DECAL-D36X50II GREASE CHART	1	
22		7000C451	DECAL - FLUID CAPACITIES	1	
23		7000c446	DECAL - NO WELD	1	Domestic
		700IC446	DECAL - NO WELD		International
24		70000394	DECAL-VERMEER HY POWER	1	
25		2326756	DECAL-HYDRAULIC OIL	1	Domestic
		2326I756	DECAL-HYDRAULIC FLUID		International
26		296276018	MOUNT HELLER MANN TITON	2	
27		235735001	BOLT-1/4-20X1 GR8 HEX ZNC PLTD	2	
28		510337603	WASHER-FLATSTD-.25-.31X.75-.07-YZ	2	

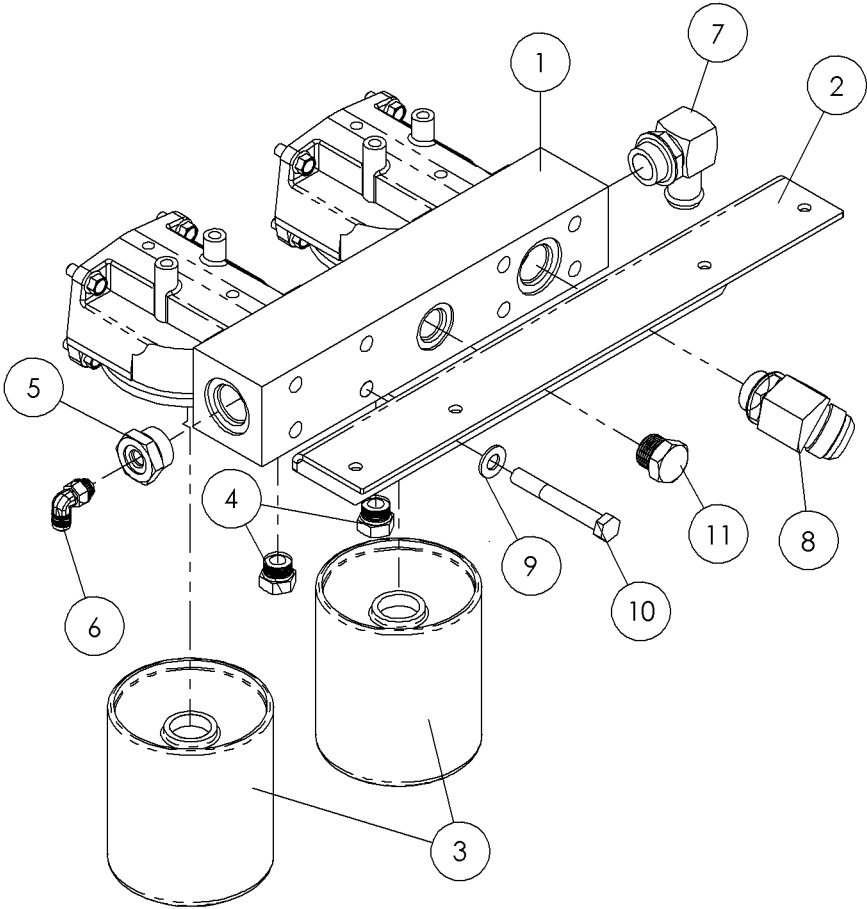
Oil Tank Fig 4-2



Oil Tank Fig 4-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296277998	TANK - 55 GALLON OIL	1	
2		78544001	O-RING AS-378 B46	3	
3		96291001	PLATE-CLEANOUT PORT	3	
4		98681001	FILTER-TANK 3 NPT OUTLET PORT	1	
5		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	24	
6		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	24	
7		235808001	CAP-FILLER/BREATHER W/O RELIEF	1	
8		1802006	BOLT-10-24 X 3/4 RND HD STOVE	6	
9		296257231	COVER - 6" RESERVOIR END	1	
10		60907001	FITTING-16M JICX16M STR ADAPT	2	
11		251243001	HOSE - PUMP SUCTION	1	
12		1580013	HOSE CLAMP - 2 1/2"	2	
13		56218001	FITTING - PLUG - 8MORB - HEX	2	
14		53837001	FITTING - 8M O-RING X 8M JIC 90 DEGREE	1	
15		86671001	FITTING-8M ORING X4M JIC 90 EL	1	
16		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	1	
17		96709001	HOSE INSERT-16MX1 BEAD STR.	1	
18		238094001	CLAMP-3/4X1 3/4 BAND W/SCREW	1	
19		57949001	FITTING-12MX8M JIC 90 DEG. EL.	1	
20		81590001	GAUGE-SIGHT	1	
21		700IC700	DECAL-D36X50II GREASE CHART	1	
22		7000C451	DECAL - FLUID CAPACITIES	1	
23		7000C446	DECAL - NO WELD	1	Domestic
		700IC446	DECAL - NO WELD	1	International
24		70000394	DECAL-VERMEER HY POWER	1	
25		2326756	DECAL-HYDRAULIC OIL	1	Domestic
		2326I756	DECAL-HYDRAULIC FLUID	1	International

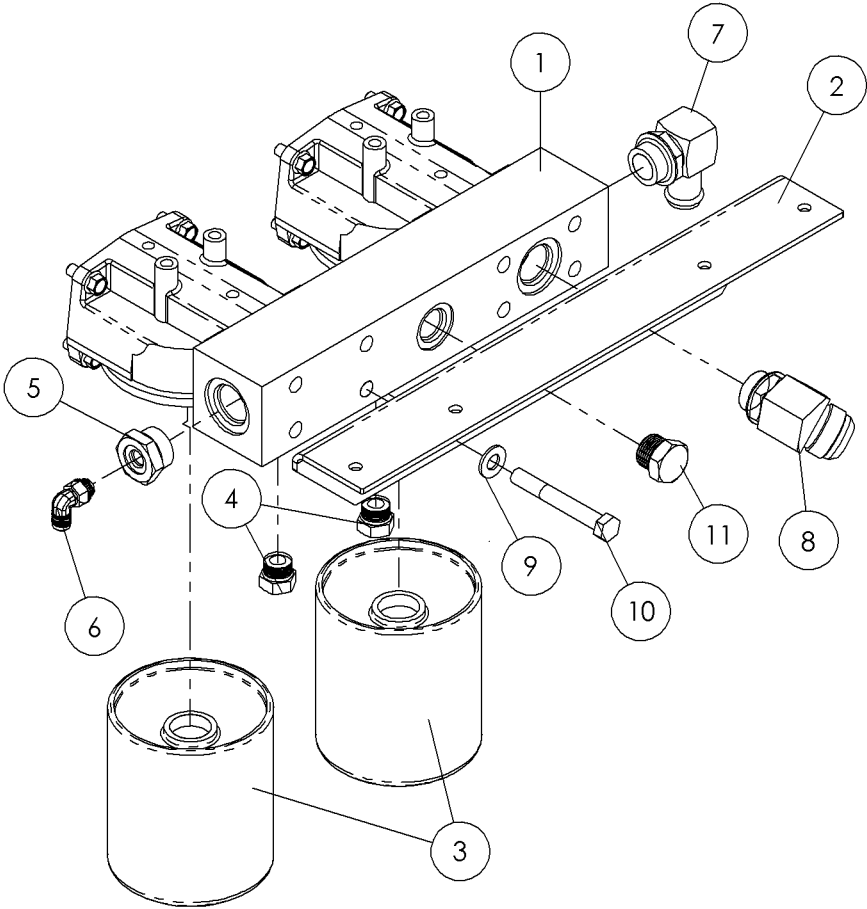
Return Filter Manifold Fig 4-3r01



Return Filter Manifold Fig 4-3r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Parts List.
1		296273660	ASSEMBLY - FILTER HEAD	1	Breakdown Fig. 11-37
2		296274715	SUPPORT - AIR CLEANER	1	
3		296269657	FILTER - 5 MICRON HYDRAULIC	2	S/N 251-
4		56218001	FITTING - PLUG - 8MORB - HEX	2	
5		279128001	FITTING-STR- 16MORB-6FORB	1	
6		59426001	FITTING - 90-6MJ-6MORBA	1	
7		100000001	FITTING -90- 16MORBX 16MBHI	1	
8		86234001	FITTING - 16M ORING X 20 M JIC 45 DEG	1	
9		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	8	
10		238213001	SCREW-HCS-.50-13X3.75-GR8-YZ	8	
11		67570001	FITTING-PLUG-12MORB-HEX	1	

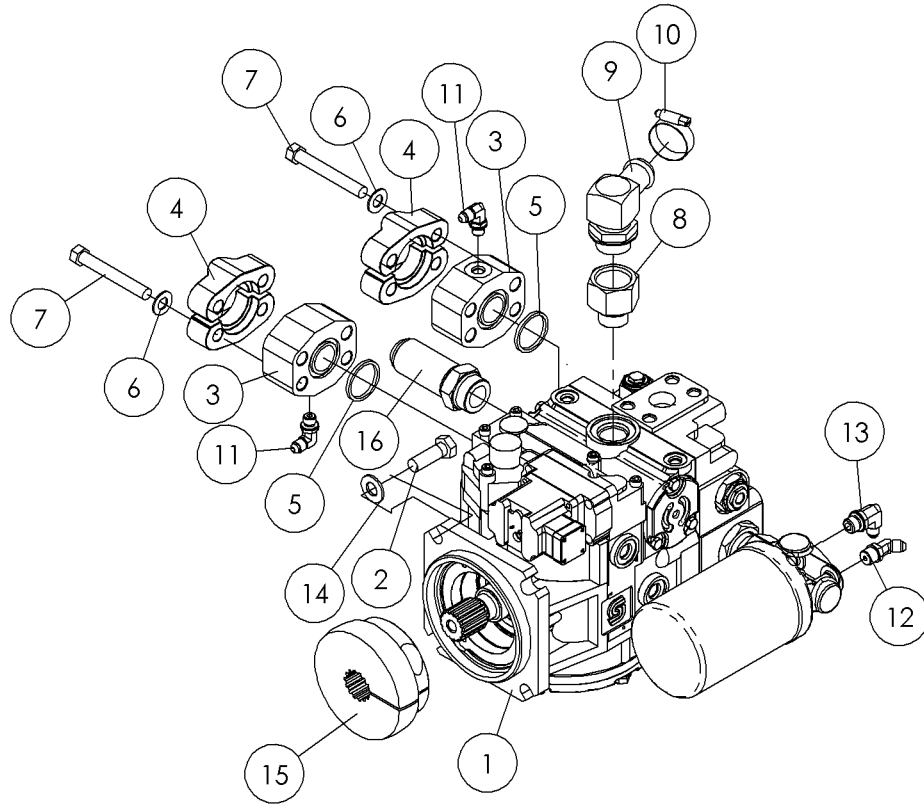
Return Filter Manifold Fig 4-3



Return Filter Manifold Fig 4-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296273660	ASSEMBLY - FILTER HEAD	1	Breakdown Fig. 11-37
2		296274715	SUPPORT - AIR CLEANER	1	
3		296269657	FILTER - 5 MICRON HYDRAULIC	2	
4		56218001	FITTING - PLUG - 8MORB - HEX	2	
5		279128001	FITTING-STR- 16MORB-6FORB	1	
6		59426001	FITTING - 90-6MJ-6MORBA	1	
7		100000001	FITTING -90- 16MORBX 16MBHI	1	
8		86234001	FITTING - 16M ORING X 20 M JIC 45 DEG	1	
9		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	8	
10		238213001	SCREW-HCS-.50-13X3.75-GR8-YZ	8	
11		67570001	FITTING-PLUG-12MORB-HEX	1	

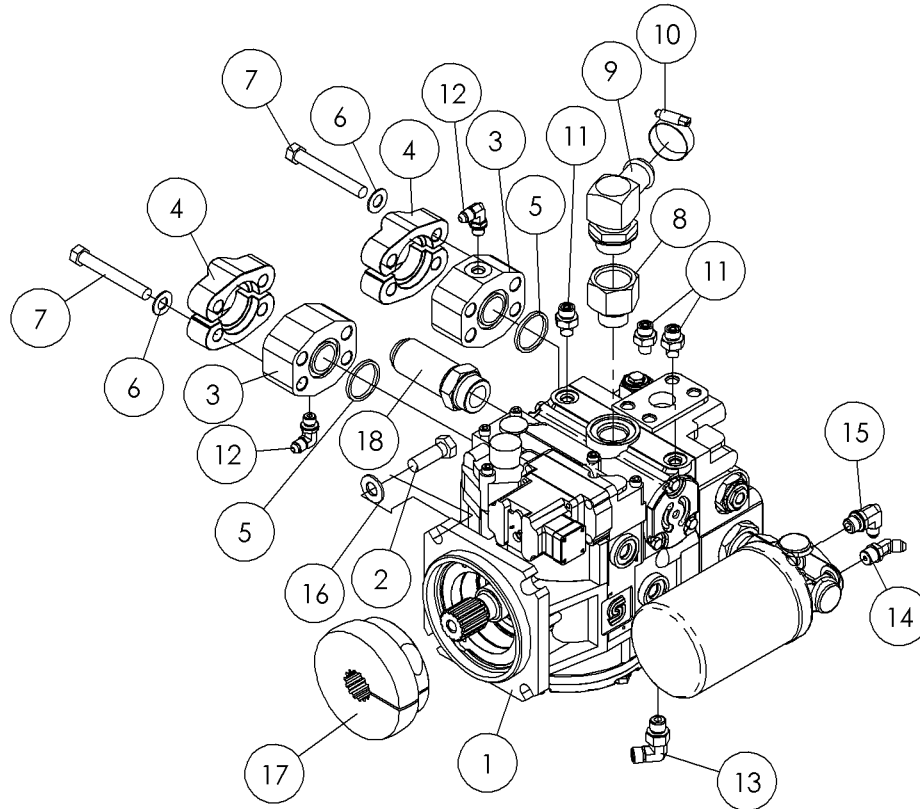
Pump - Rotation Fig 4-4r02



Pump - Rotation Fig 4-4r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		278884001	PUMP ASSY -	1	Breakdown Fig. 4-4
2		235721001	SCREW-HCS-.50-13X1.50-GR8-YZ	4	
3		296273640	FLANGE-4 BOLT W/ -4 PORT	2	
4		67745001	HALF CLAMP CODE 62	4	
5		72895001	O - RING-16 CODE 62	2	
6		250515001	WASHER-FLATSTRL-.44-.47X.92-.06-YZ	8	
7		296273645	SCREW-HHCS-.44-14X3.25-GR8-YZ	8	
8		96076001	FITTING-STR-12MORB-16FORB	1	
9		100000001	FITTING -90- 16MORBX 16MBHI	1	
10		238094001	CLAMP- BAND	1	
11		59423001	FITTING-90-4MJ-4MORBA	2	
12		82931001	FITTING-45-4MJ-6MORBA	1	
13		57950001	FITTING-90-4MJ-6MORBA	1	
14		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	4	
15		278981001	HUB-14T PUMP DRIVE	1	
16		94161001	FITTING-STR-16MJ-16MORB LONG	1	

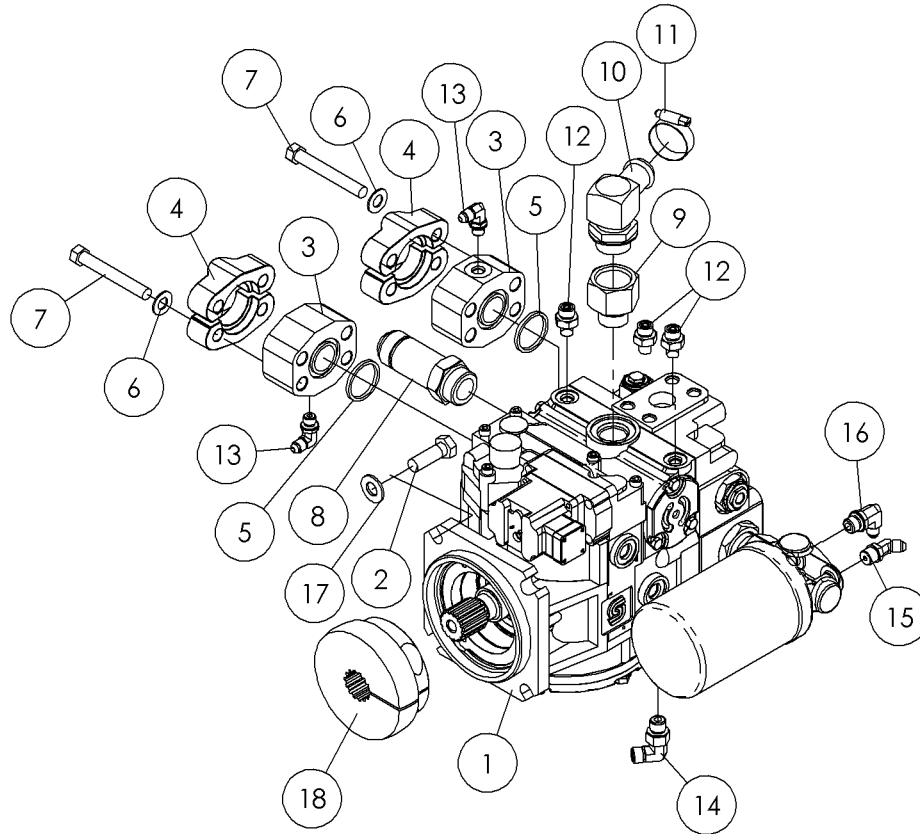
Pump - Rotation Fig 4-4r01



Pump - Rotation Fig 4-4r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		278884001	PUMP - HYD 90 SERIES 55CC	1	breakdown Fig. 4-4
2		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	4	
3		296273640	FLANGE - 4 BOLT W/-4 PORT	2	
4		67745001	FITTING - FLGH - 16CD62	4	
5		72895001	O RING-SQ. #16 FLANGE	2	
6		250515001	7/16 HARD WASHER SAE Y/ZINC	8	
7		296273645	SCREW - HHCS - .44-14X3.25-GR8-YZ	8	
8		96076001	FIT.-12MX16F O-RING	1	
9		100000001	FITTING-16MORINGX1"BEADED90DEG	1	
10		238094001	CLAMP-3/4X1 3/4 BAND W/SCREW	1	
11		294561001	FITTING - STR- 4MORFF - 4MORB - R.063	3	
12		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	2	
13		278948001	FITTING - 90 - 4MORFF - 6MORBA	1	
14		82931001	FITTING-45-4MJX6MORBA	1	
15		57950001	FITTING-90-4MJ-6MORBA	1	
16		485025	WASHER-1/2 FLAT-HARDENED-YZ	4	
17		278981001	HUB - 14T PUMP DRIVE	1	
18		94161001	FITTING-16MJICX16MORING LONG	1	

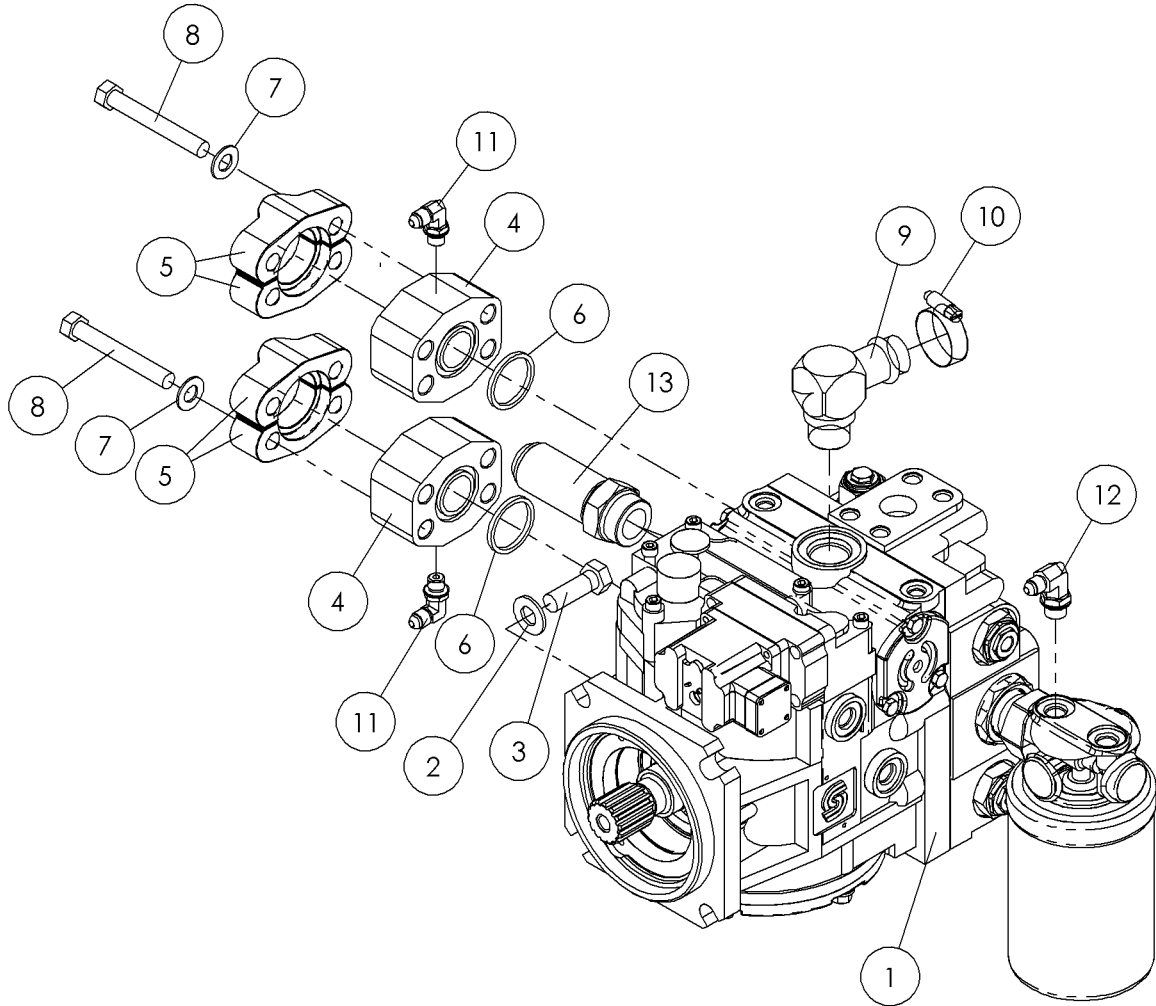
Pump - Rotation Fig 4-4



Pump - Rotation Fig 4-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278884001	PUMP - HYD 90 SERIES 55CC	1	Breakdown Fig. 11-30
2		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	4	
3		296273640	FLANGE - 4 BOLT W/-4 PORT	2	
4		67745001	FITTING - FLGH - 16CD62	4	
5		72895001	O RING-SQ. #16 FLANGE	2	
6		250515001	7/16 HARD WASHER SAE Y/ZINC	8	
7		296273645	SCREW - HHCS - .44-14X3.25-GR8-YZ	8	
8		603600001	FITTING-16MJICX16MORING 6"LONG	1	
9		96076001	FIT.-12MX16F O-RING	1	
10		100000001	FITTING-16MORINGX1"BEADED90DEG	1	
11		238094001	CLAMP-3/4X1 3/4 BAND W/SCREW	1	
12		294561001	FITTING - STR- 4MORFF - 4MORB - R.063	3	
13		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	2	
14		278948001	FITTING - 90 - 4MORFF - 6MORBA	1	
15		82931001	FITTING-45-4MJX6MORBA	1	
16		57950001	FITTING-90-4MJ-6MORBA	1	
17		485025	WASHER-1/2 FLAT-HARDENED-YZ	4	
18		278981001	HUB - 14T PUMP DRIVE	1	

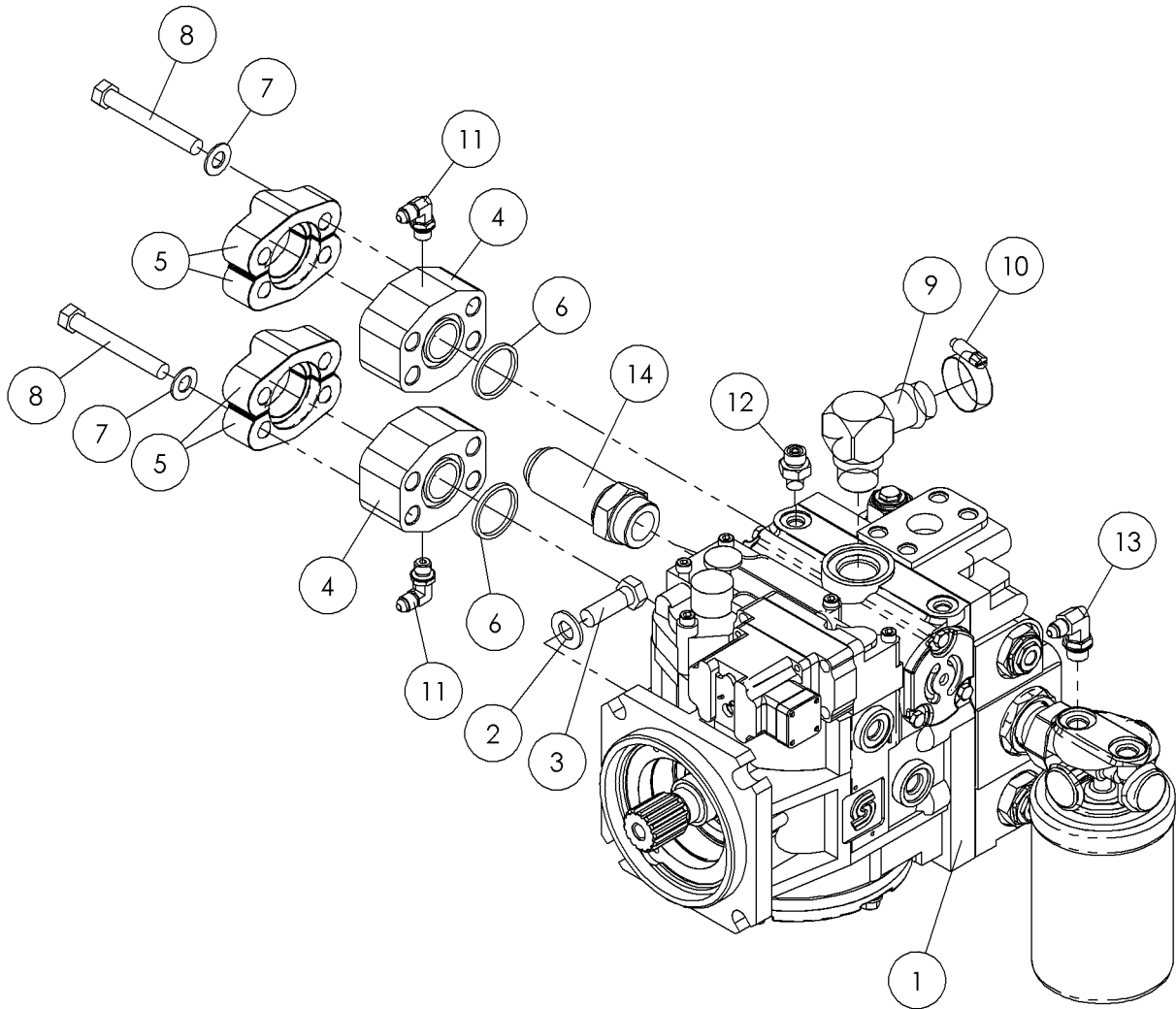
Pump - Thrust/Pullback Fig 4-5r02



Pump - Thrust/Pullback Fig 4-5r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Parts List.
1		278884001	PUMP ASSY -	1	Breakdown Fig. 11-30
2		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	4	
3		235721001	SCREW-HCS-.50-13X1.50-GR8-YZ	4	
4		296273640	FLANGE-4 BOLT W/ -4 PORT	2	
5		67745001	HALF CLAMP CODE 62	4	
6		72895001	O - RING-16 CODE 62	2	
7		250515001	WASHER-FLATSTRL-.44-.47X.92-.06-YZ	8	
8		296273645	SCREW-HHCS-.44-14X3.25-GR8-YZ	8	
9		99706001	FITTING-90-12ORBA-16HBI	1	
10		238094001	CLAMP- BAND	1	
11		59423001	FITTING-90-4MJ-4MORBA	2	
12		57950001	FITTING-90-4MJ-6MORBA	1	
13		94161001	FITTING-STR-16MJ-16MORB LONG	1	

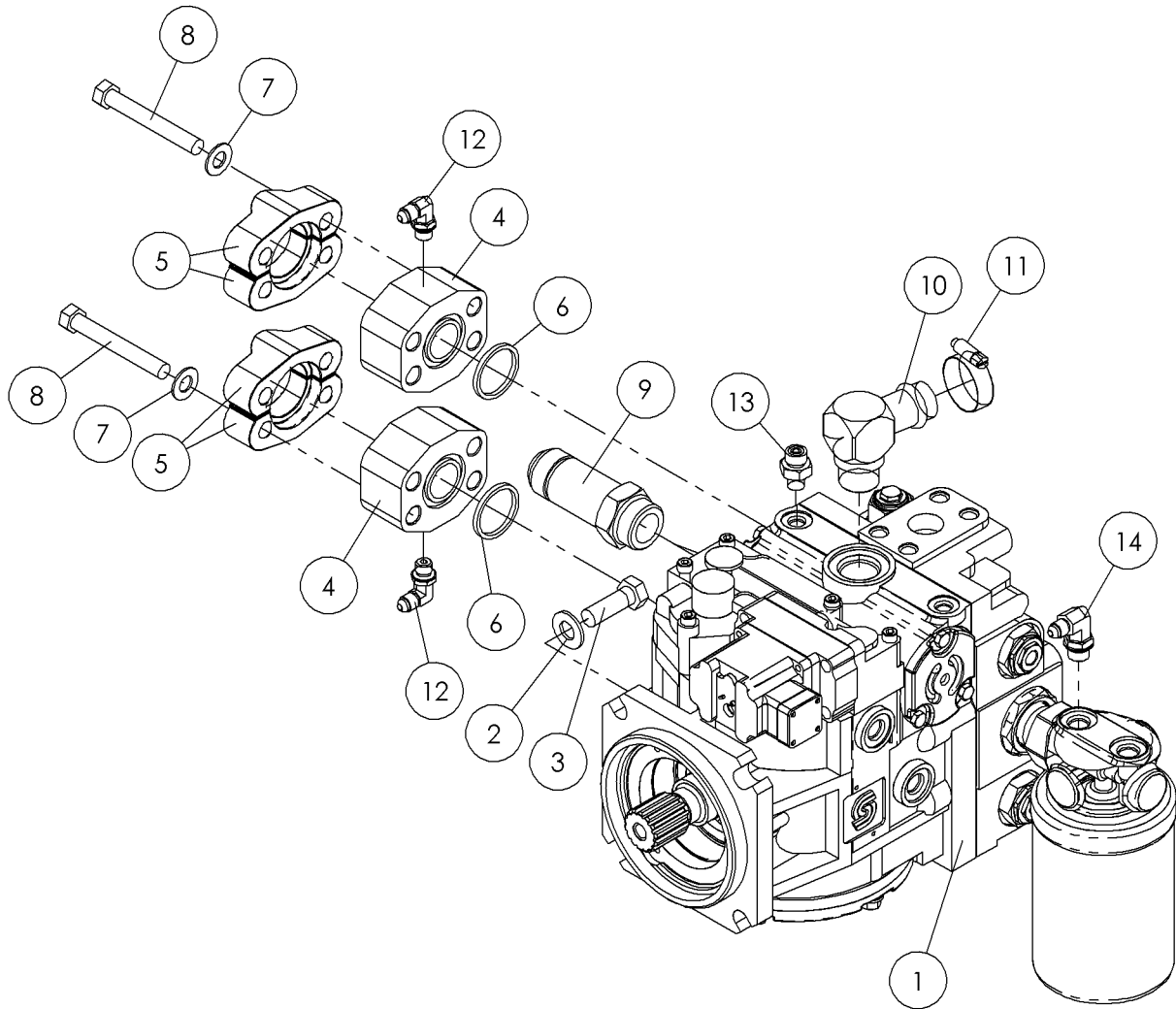
Pump - Thrust/Pullback Fig 4-5r01



Pump - Thrust/Pullback Fig 4-5r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		278884001	PUMP - HYD 90 SERIES 55CC	1	Breakdown Fig. 11-30
2		485025	WASHER-1/2 FLAT-HARDENED-YZ	4	
3		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	4	
4		296273640	FLANGE - 4 BOLT W/-4 PORT	2	
5		67745001	FITTING - FLGH - 16CD62	4	
6		72895001	O RING-SQ. #16 FLANGE	2	
7		250515001	7/16 HARD WASHER SAE Y/ZINC	8	
8		296273645	SCREW - HHCS - .44-14X3.25-GR8-YZ	8	
9		99706001	FITTING-12MORX1"HOSEBEAD 90DEG	1	
10		238094001	CLAMP-3/4X1 3/4 BAND W/SCREW	1	
11		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	2	
12		294561001	FITTING - STR- 4MORFF - 4MORB - R.063	1	
13		57950001	FITTING-90-4MJ-6MORBA	1	
14		94161001	FITTING-16MJICX16MORING LONG	1	

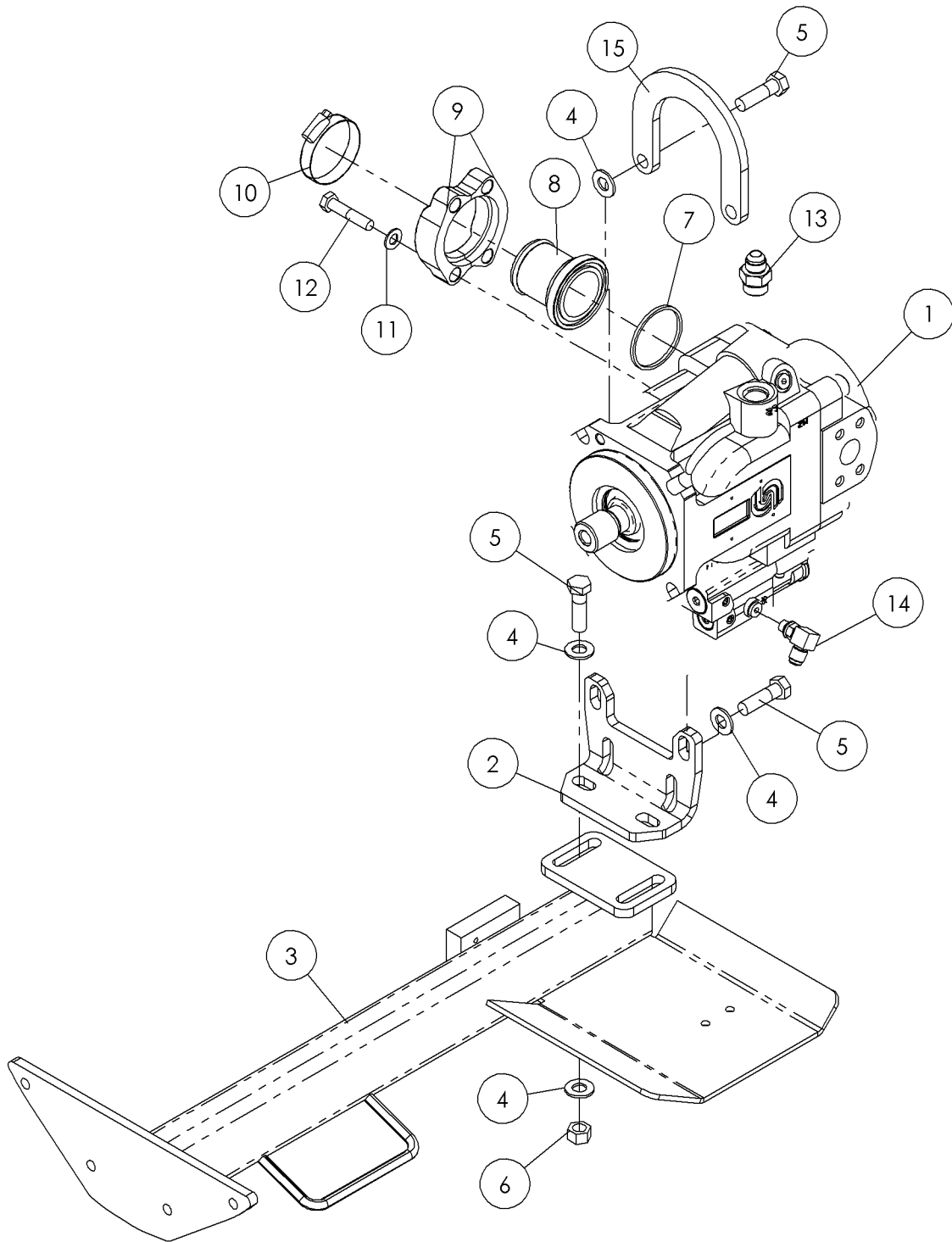
Pump - Thrust/Pullback Fig 4-5



Pump - Thrust/Pullback Fig 4-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278884001	PUMP ASSY -	1	Breakdown Fig. 11-30
2		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	4	
3		235721001	SCREW-HCS-.50-13X1.50-GR8-YZ	4	
4		296273640	FLANGE-4 BOLT W/ -4 PORT	2	
5		67745001	HALF CLAMP CODE 62	4	
6		72895001	O - RING-16 CODE 62	2	
7		250515001	WASHER-FLATSTRL-.44-.47X.92-.06-YZ	8	
8		296273645	SCREW-HHCS-.44-14X3.25-GR8-YZ	8	
9		603600001	FITTING-STR-16MJ-16MORB-6.00L	1	
10		99706001	FITTING-90-12ORBA-16HBI	1	
11		238094001	CLAMP- BAND	1	
12		59423001	FITTING-90-4MJ-4MORBA	2	
13		294561001	FITTING - STR - 4MORFF - 4MORB-R.062	1	
14		57950001	FITTING-90-4MJ-6MORBA	1	

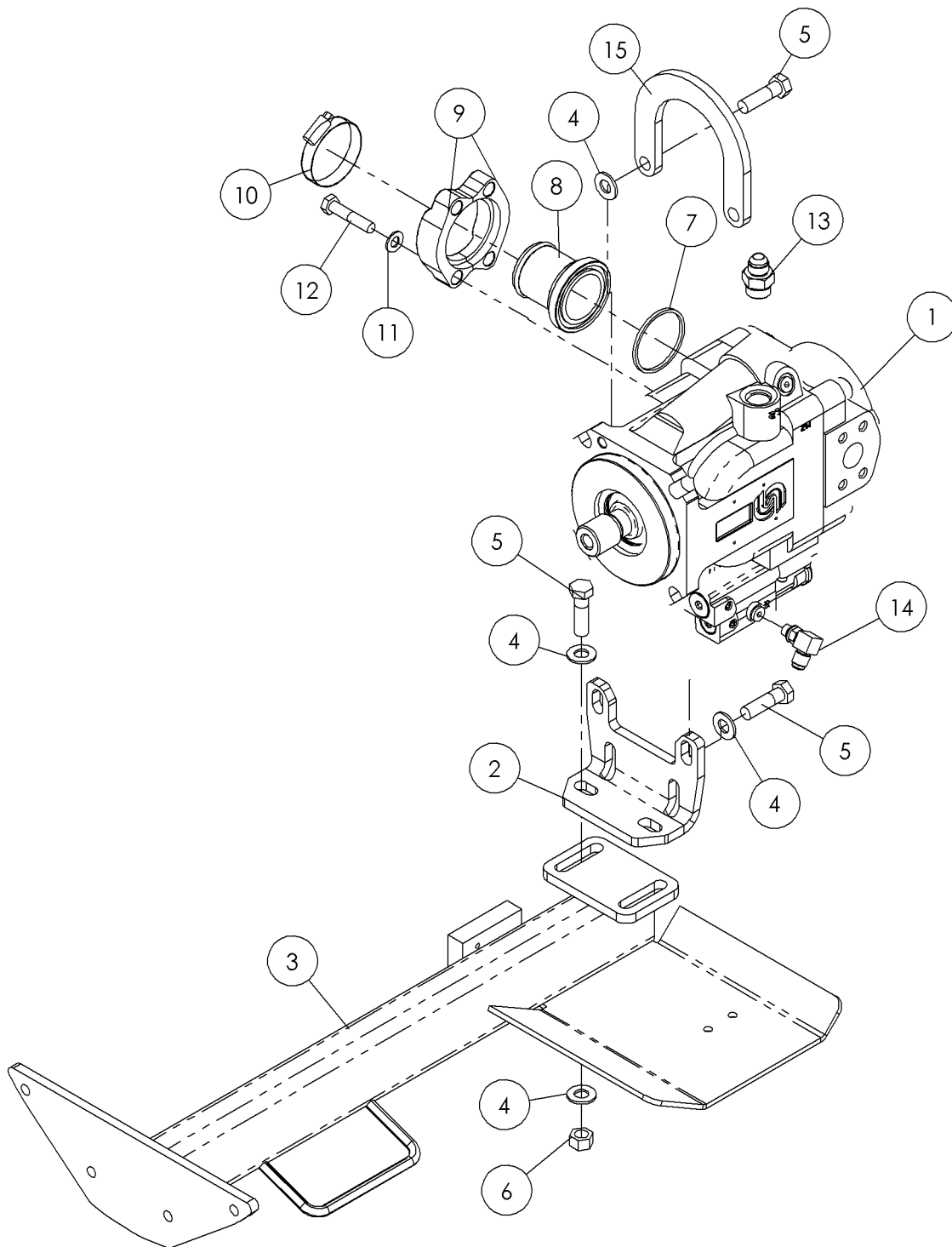
Pump - PFC/Implement Fig 4-6r02



Pump - PFC/Implement Fig 4-6r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		278885001	PUMP ASSY -	1	Breakdown Fig. 11-57
2		278842001	PLATE - PUMP	1	
3		296274580	SUPPORT - PUMP	1	
4		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	8	
5		240334001	SCREW-HCS-.50-13X1.75-GR8-YZ	6	
6		250512001	NUT-TLHEX-.50-13-C-YZ	2	
7		72898001	O RING- SQ. #32 FLANGE	1	
8		278765001	FITTING - #32 FLANGE X 2" HB ST.	1	
9		73114001	FITTING-CODE 61 #32 FLANGE	2	
10		1580013	HOSE CLAMP - 2 1/2"	1	
11		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	4	
12		250574001	SCREW-HCS-M10-1.50X50-10.9-YZ-D931-PT	4	
13		53826001	FITTING-STR-8MJ-10MORB	1	
14		296273661	FITTING-90-4MOR-6 MJIC-100 MICRON	1	
15		251238001	PLATE- LIFT POINT	1	

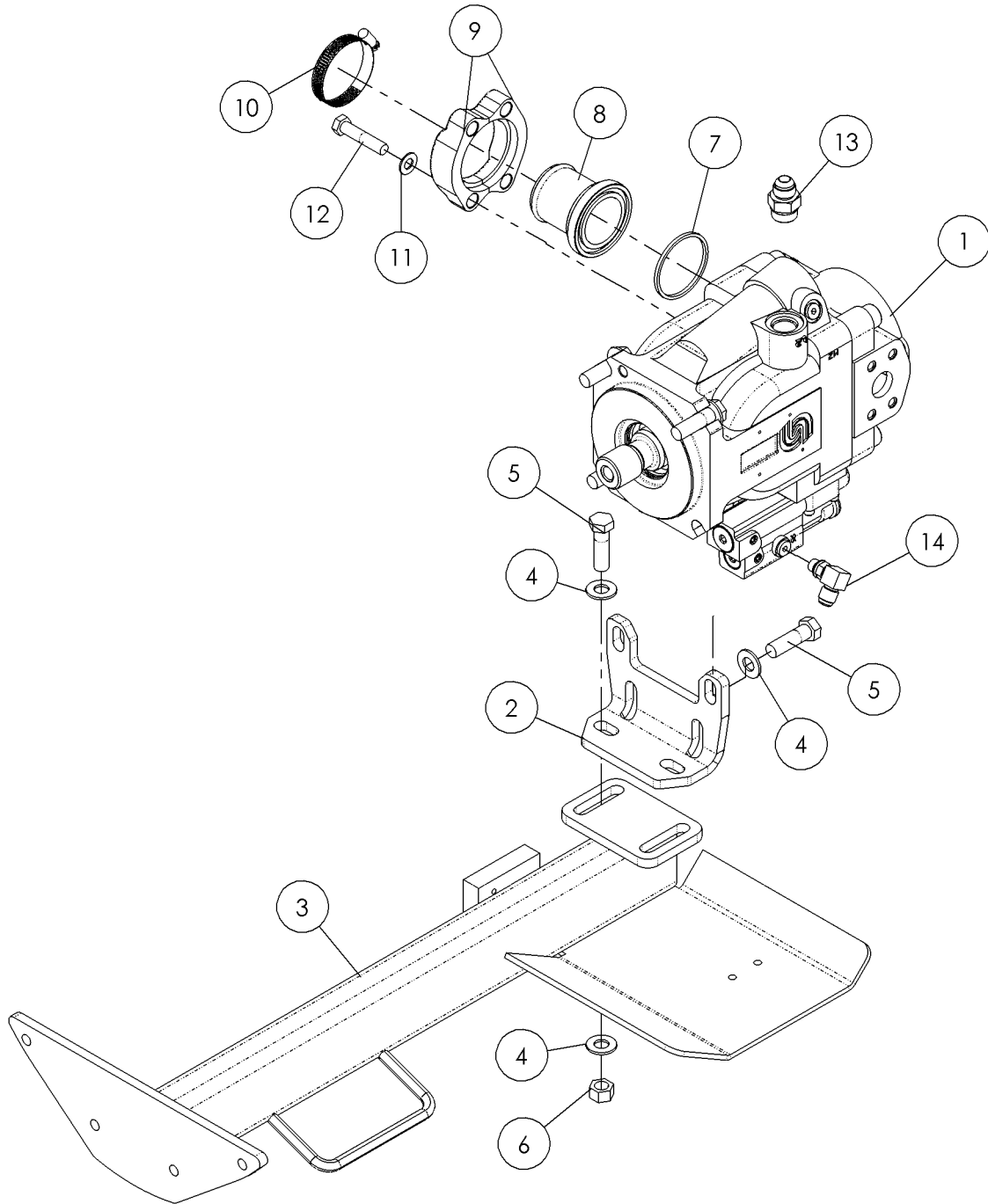
Pump - PFC/Implement Fig 4-6r01



Pump - PFC/Implement Fig 4-6r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		278885001	PUMP - HYDRAULIC 45 SERIES 74CC	1	Breakdown Fig. 11-57
2		278842001	PLATE - PUMP SUPPORT	1	
3		296274580	SUPPORT - PUMP	1	
4		485025	WASHER-1/2 FLAT-HARDENED-YZ	8	
5		240334001	BOLT-1/2-13X1 3/4 GR8 ZINC PLT	6	
6		250512001	NUT- 1/2 NC Gr8 TOP LOCK Y/ ZINC	2	
7		72898001	O RING-SQ. #32 FLANGE	1	
8		278765001	FITTING-#32 FLANGE X 2" HB ST.	1	
9		73114001	FITTING-CODE 61 #32 FLANGE	2	
10		1580013	HOSE CLAMP - 2 1/2" REF T08735	1	
11		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
12		250574001	BOLT-10M X 50M 10.9 HEX Y/ZINC	4	
13		53826001	#10M O-RING-#8M JIC ST.	1	
14		278934001	FILTER - 4 MOR X 6 MJIC 90 DEG 100 MICRON	1	
15		251238001	PLATE - LIFT POINT	1	

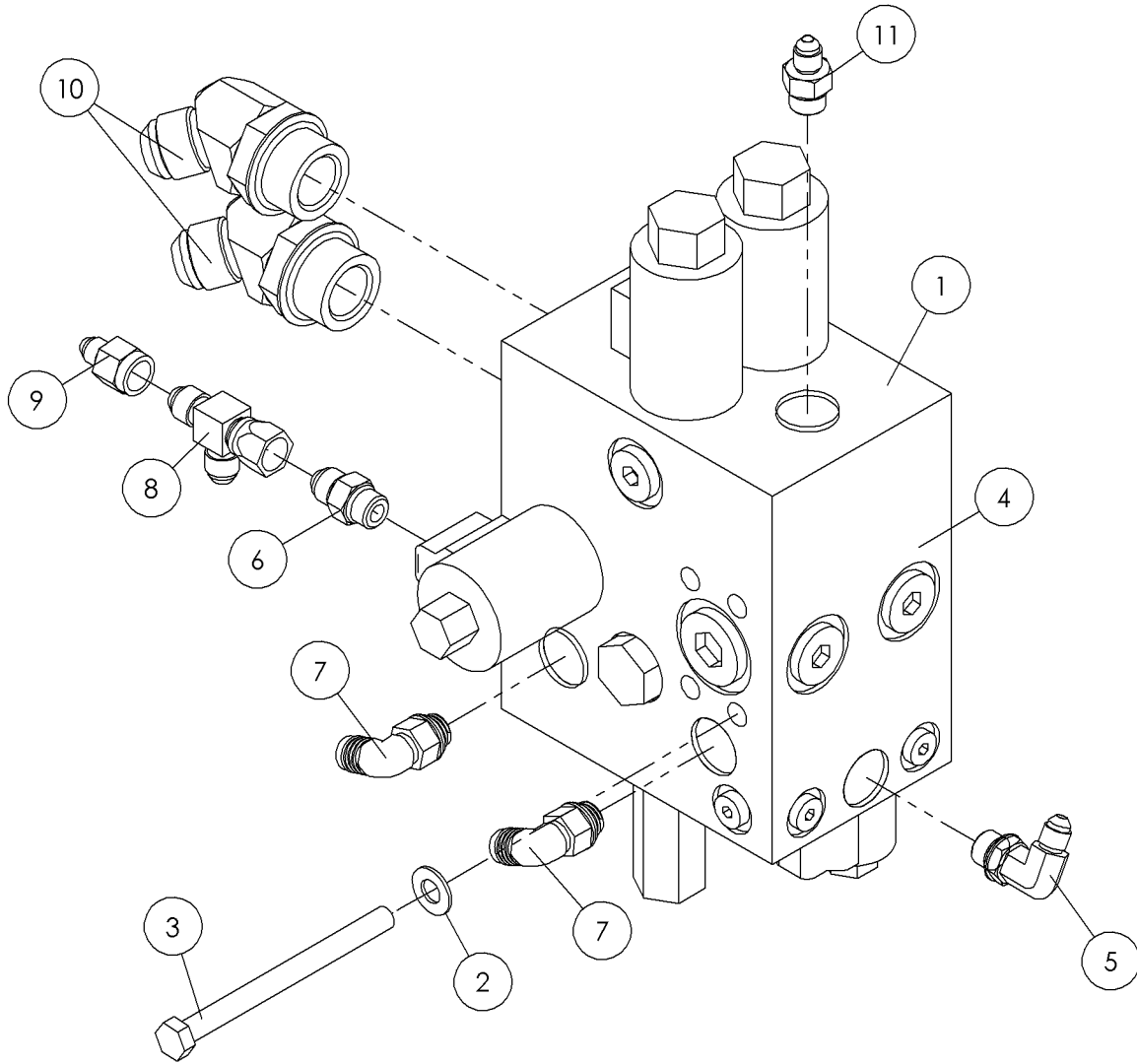
Pump - PFC/Implement Fig 4-6



Pump - PFC/Implement Fig 4-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278885001	PUMP - HYDRAULIC 45 SERIES 74CC	1	Breakdown Fig. 11-57
2		278842001	PLATE - PUMP SUPPORT	1	
3		296274580	SUPPORT - PUMP	1	
4		485025	WASHER-1/2 FLAT-HARDENED-YZ	8	
5		240334001	BOLT-1/2-13X1 3/4 GR8 ZINC PLT	6	
6		250512001	NUT- 1/2 NC Gr8 TOP LOCK Y/ ZINC	2	
7		72898001	O RING-SQ. #32 FLANGE	1	
8		278765001	FITTING-#32 FLANGE X 2" HB ST.	1	
9		73114001	FITTING-CODE 61 #32 FLANGE	2	
10		1580013	HOSE CLAMP - 2 1/2"	1	
11		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
12		250574001	BOLT-10M X 50M 10.9 HEX Y/ZINC	4	
13		53826001	#10M O-RING-#8M JIC ST.	1	
14		278934001	FILTER - 4 MOR X 6 MJIC 90 DEG 100 MICRON	1	

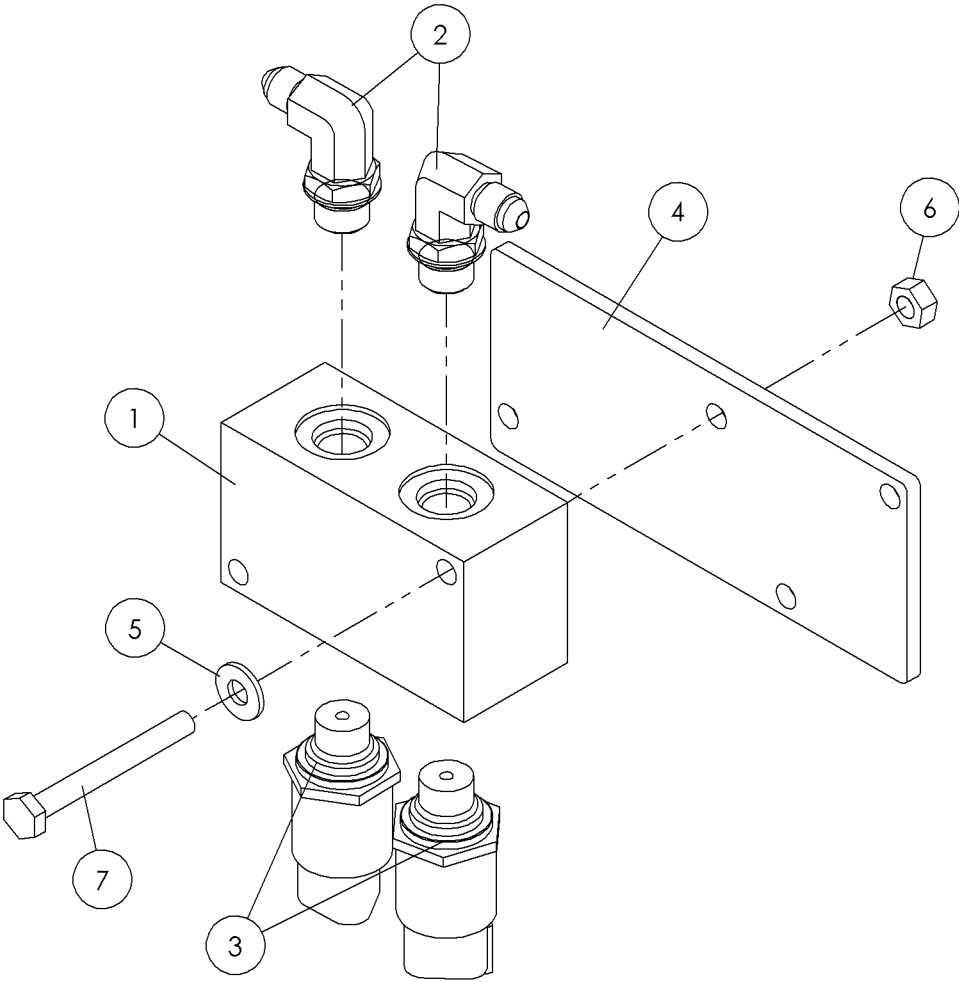
Valve - Proportional/Dump Fig 4-7r01



Valve - Proportional/Dump Fig 4-7r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		296277840	VALVE - PROPORTIONAL/DUMP	1	Breakdown Fig. 11-3
2		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
3		238246001	BOLT 3/8"-16 X 4 1/2" GR8 HEX	4	
4		72895001	O RING-SQ. #16 FLANGE	1	
5		57950001	FITTING-90-4MJ-6MORBA	1	
6		65565001	FITTING - 6M O-RING X 6M JIC ST.	1	
7		59426001	FITTING - 90-6MJ-6MORBA	2	
8		59427001	TEE-6MJ-6FSJ-6MJ	1	
9		59928001	6F JICX4M JIC ST REDUCER	1	
10		81212001	FITTING-16MX12M JIC 45 ELBOW	2	
11		57968001	FITTING-STR-4MJ-6MORB	1	

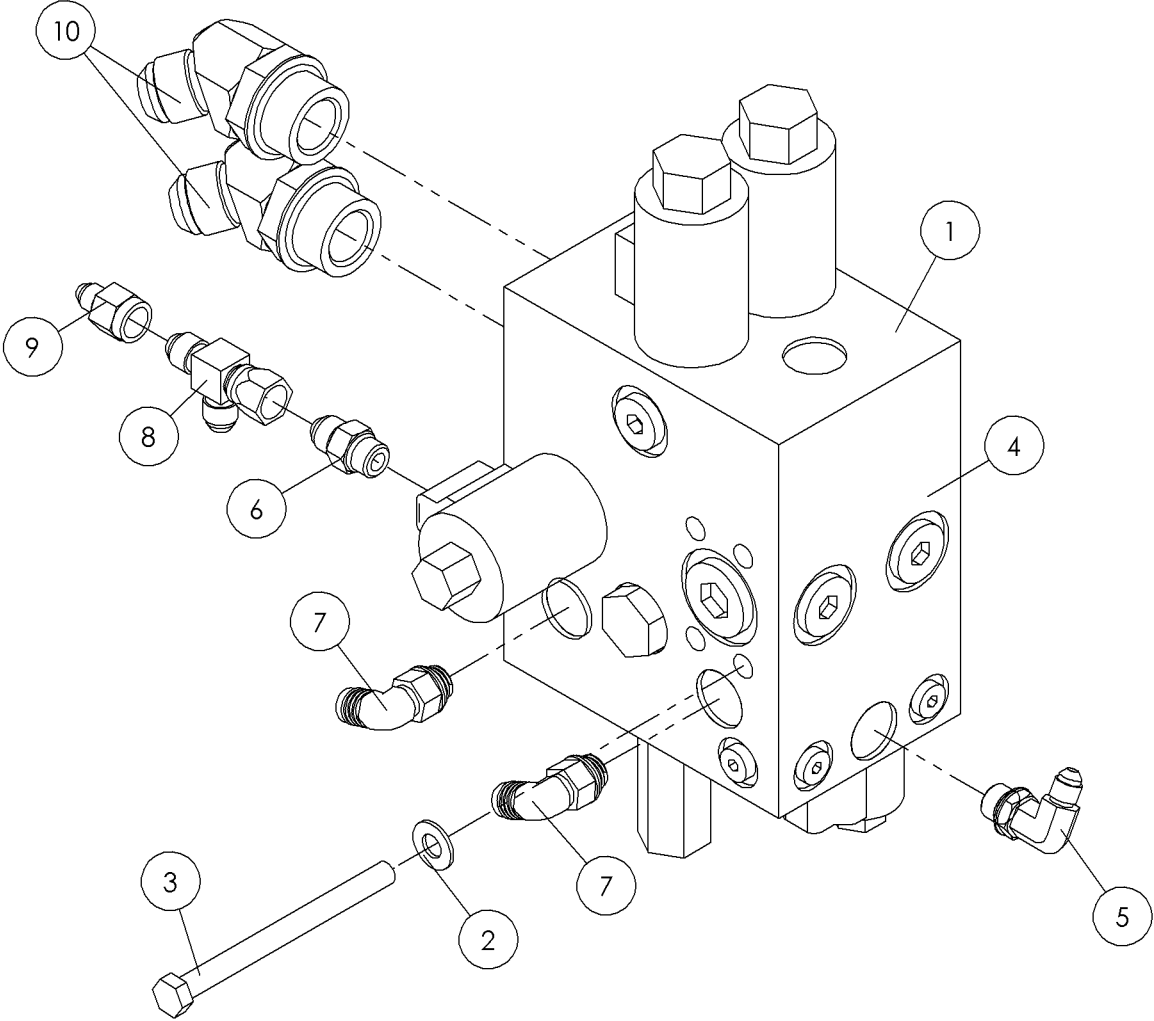
Valve-Reducer Block Fig 4-7x01



Valve-Reducer Block Fig 4-7x01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296282514	MANIFOLD- PRESSURE TRANSDUCER	1	
2		57950001	FITTING-90-4MJ-6MORBA	2	
3		296282516	PRESSURE TRANSDUCER - 7500 PSI HYDAC	2	
4		296282517	MOUNT - PRESSURE TRANSDUCER	1	
5		252251001	WASHER-FLATSAE-.25-.28X.63-.06-CZ	2	
6		235732001	NUT-HEX-.25-20-GR8-YZ	2	
7		250644001	SCREW-HCS-.25-20X2.25-GR8-YZ	2	

Valve - Proportional/Dump Fig 4-7



Valve - Proportional/Dump Fig 4-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296277840	VALVE - PROPORTIONAL/DUMP	1	Breakdown Fig. 11-3
2		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
3		238246001	BOLT 3/8"-16 X 4 1/2" GR8 HEX	4	
4		72895001	O RING-SQ. #16 FLANGE	1	
5		57950001	FITTING-90-4MJ-6MORBA	1	
6		65565001	FITTING - 6M O-RING X 6M JIC ST.	1	
7		59426001	FITTING - 90-6MJ-6MORBA	2	
8		59427001	TEE-6MJ-6FSJ-6MJ	1	
9		59928001	6F JICX4M JIC ST REDUCER	1	
10		81212001	FITTING-16MX12M JIC 45 ELBOW	2	

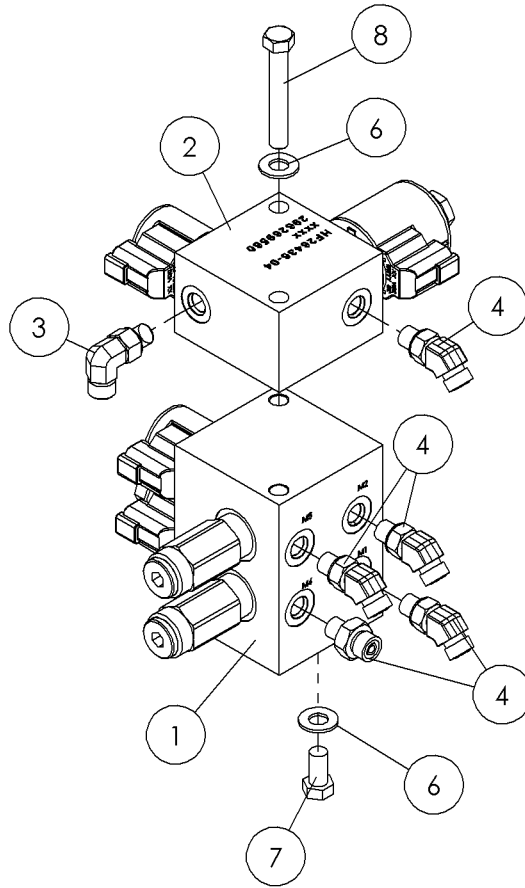
Valve - Torque & Thrust Limiter-Deleted Fig 4-8r01

DELETED DUE TO UPDATE

Valve - Torque & Thrust Limiter-Deleted Fig 4-8r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Deleted Due To Update
			DELETED DUE TO UPDATE		

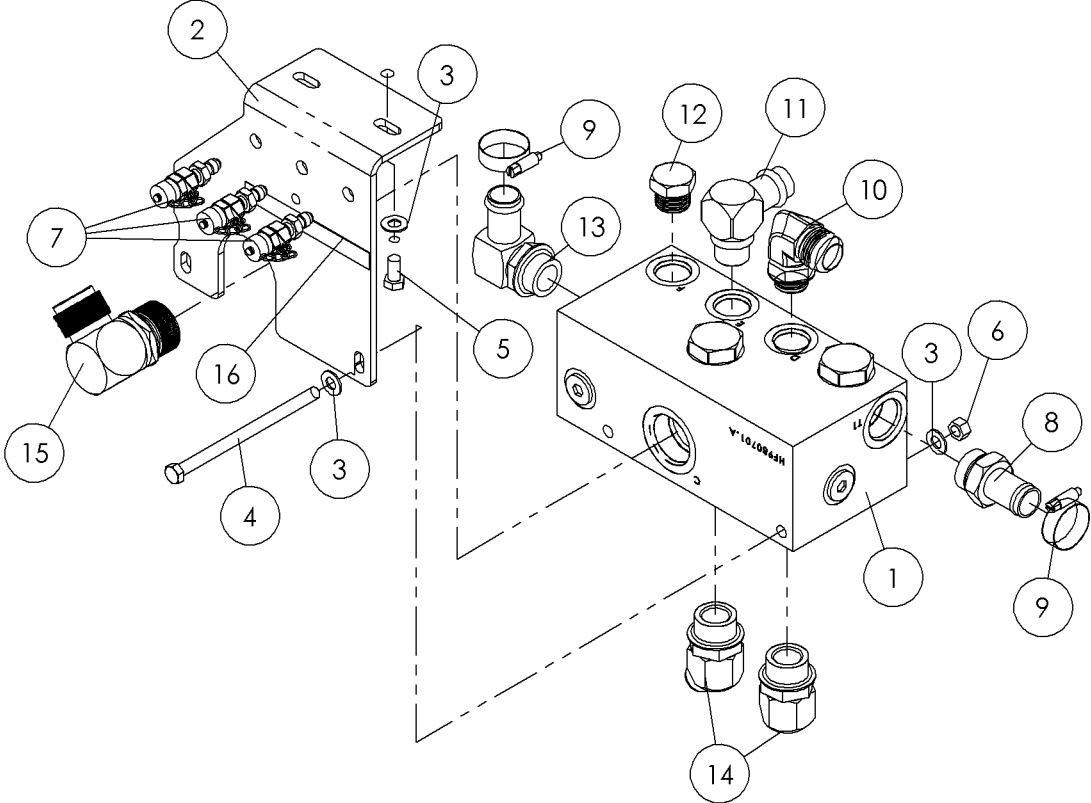
Valve - Torque & Thrust Limiter Fig 4-8



Valve - Torque & Thrust Limiter Fig 4-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296269561	VALVE - TORQUE LIMITER	1	Breakdown Fig. 11-4
2		296269560	VALVE - THRUST LIMITER	1	Breakdown Fig. 11-5
3		72451001	FITTING-90-4MORFF-4MORBA	1	
4		72450001	FITTING - 45 - 4MORFF - 4MORBA - FRG	4	
5		72449001	FITTING - STR - 4MORFF - 4MORB	1	
6		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
7		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	2	
8		250529001	BOLT 3/8-16X2 1/2"GR.8 HEX	2	

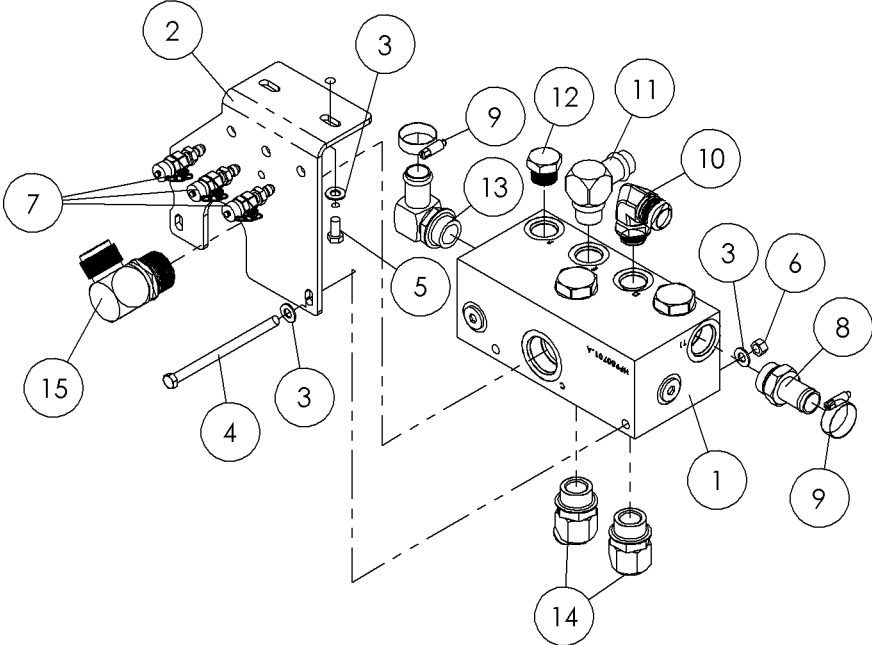
Valve - Return Fig 4-9r02



Valve - Return Fig 4-9r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2005		Update In Illustration & Parts List.
1		296273651	MANIFOLD- RETURN	1	Breakdown Fig. 11-6
2		278752001	PLATE - RETURN VALVE MOUNT	1	
3		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	6	
4		238214001	SCREW- HCS-.38-16X6.00-GR8-CZ	2	
5		235726001	SCREW-HCS-.38-16X.75-GR8-YZ	2	
6		235725001	NUT-HEX-.38-16-GR8-YZ	2	
7		86230001	FITTING-MALE BLKHD CPLG7/16JIC	3	
8		96709001	HOSE INSERT-16MX1 BEAD-STR	1	
9		238094001	CLAMP- BAND	2	
10		65571001	16M JICX12M ADJ. 90 DEG.ELBOW	1	
11		99706001	FITTING-90-12ORBA-16HBI	1	
12		67570001	FITTING-PLUG-12MORB-HEX	1	
13		100000001	FITTING -90- 16MORBX 16MBHI	1	
14		81212001	FITTING-45-16MORBA-12MJ	2	
15		77137001	FITTING-90-20MJ-20MORBA	1	
16		7000b300	TEST PIONT DECAL	1	

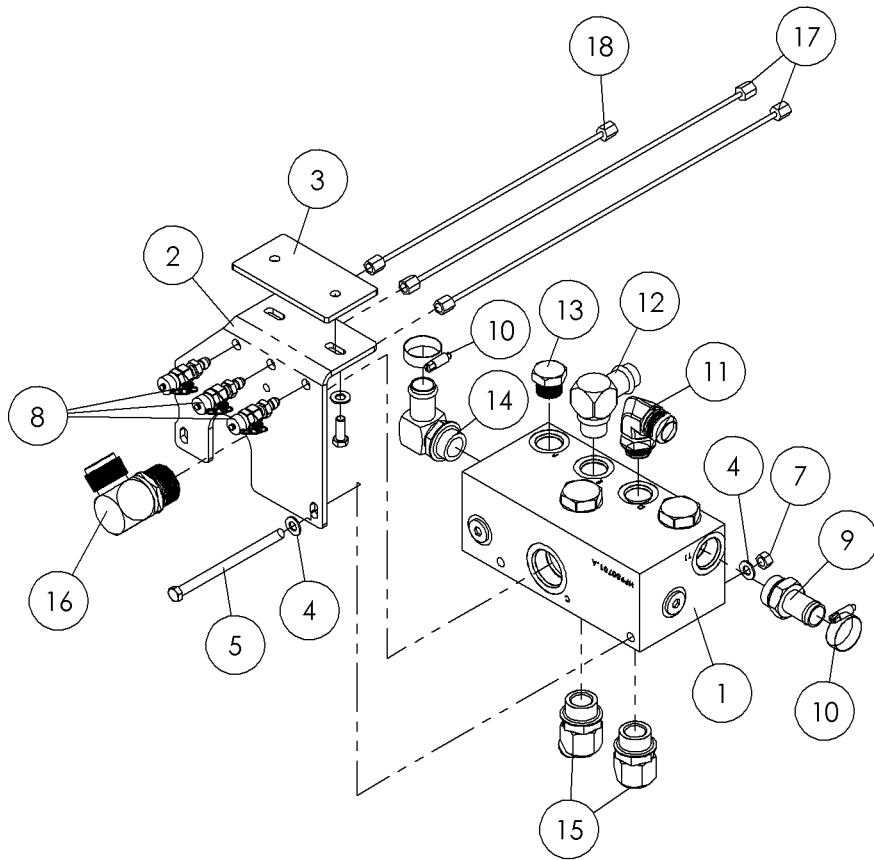
Valve - Return Fig 4-9r01



Valve - Return Fig 4-9r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296273651	MANIFOLD - RETURN	1	Breakdown Fig. 11-6
2		278752001	PLATE-RETURN VALVE MOUNT	1	
3		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	6	
4		238214001	BOLT 3/8-16 X 6" Gr8 HEX Y\ZINC	2	
5		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	2	
6		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	2	
7		86230001	FITTING-MALE BLKHD CPLG7/16JIC	3	
8		96709001	HOSE INSERT-16MX1 BEAD STR.	1	
9		238094001	CLAMP-3/4X1 3/4 BAND W/SCREW	2	
10		65571001	12M X 16M JIC 90 DEGREE	1	
11		99706001	FITTING-12MORX1"HOSEBEAD 90DEG	1	
12		67570001	FITTING - PLUG - 12MORB - HEX	1	
13		100000001	FITTING-16MORINGX1"BEADED90DEG	1	
14		81212001	FITTING-16MX12M JIC 45 ELBOW	2	
15		77137001	FITTING-20MX20M JIC 90 DEG.	1	

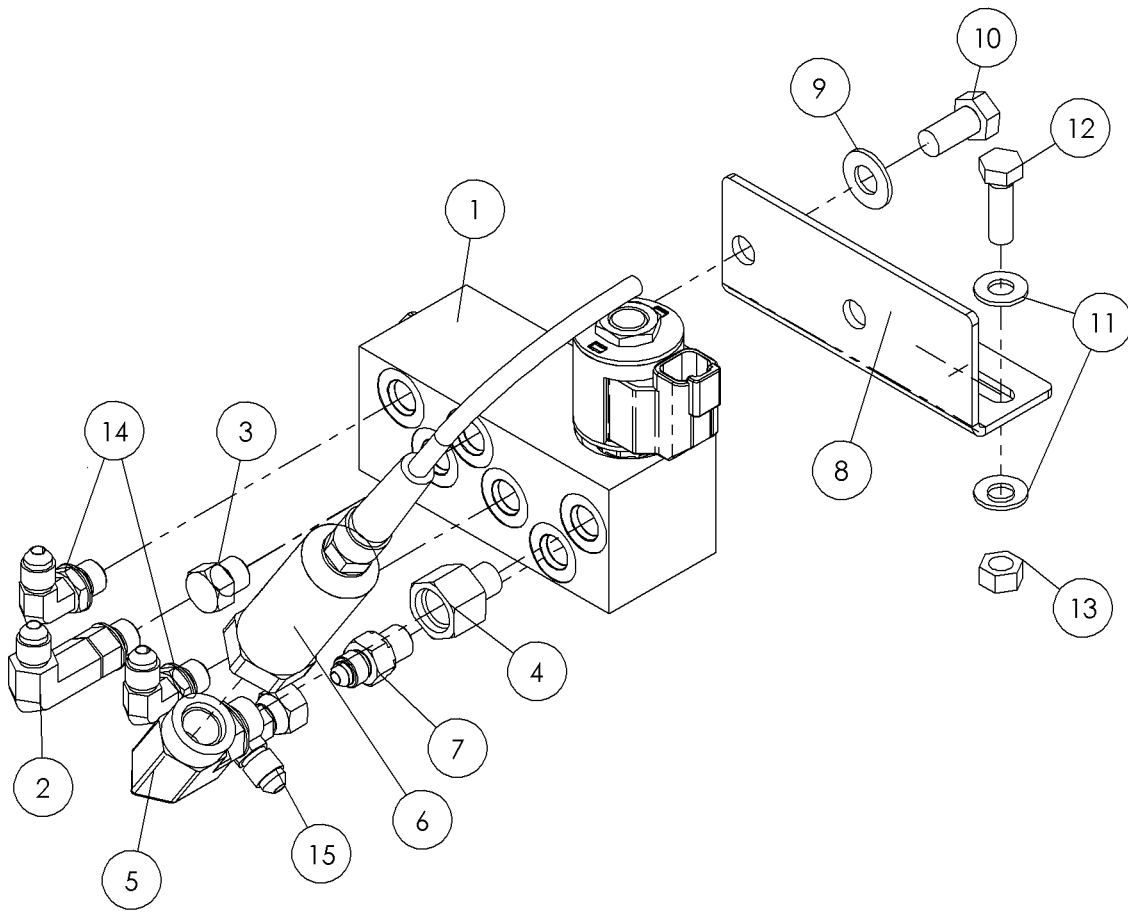
Valve - Return Fig 4-9



Valve - Return Fig 4-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296273651	MANIFOLD- RETURN	1	Breakdown Fig. 11-6
2		278752001	PLATE - RETURN VALVE MOUNT	1	
3		296273683	PLATE- SHIM	1	
4		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	6	
5		238214001	SCREW- HCS-.38-16X6.00-GR8-CZ	2	
6		235727001	BOLT - 3/8-16x1 GR.8 HEX	2	
7		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	2	
8		86230001	FITTING-MALE BLKHD CPLG7/16JIC	3	
9		96709001	HOSE INSERT-16MX1 BEAD-STR	1	
10		238094001	CLAMP- BAND	2	
11		65571001	16M JICX12M ADJ. 90 DEG.ELBOW	1	
12		99706001	FITTING-90-12ORBA-16HBI	1	
13		67570001	FITTING-PLUG-12MORB-HEX	1	
14		100000001	FITTING -90- 16MORBX 16MBHI	1	
15		81212001	FITTING-45-16MORBA-12MJ	2	
16		77137001	FITTING-90-20MJ-20MORBA	1	
17		285556001	HOSE-.078X18- 4FSJIC ST/ST 6900 PSI	2	
18		285557001	HOSE-.078X12- 4FSJIC ST/ST 6900 PSI	1	

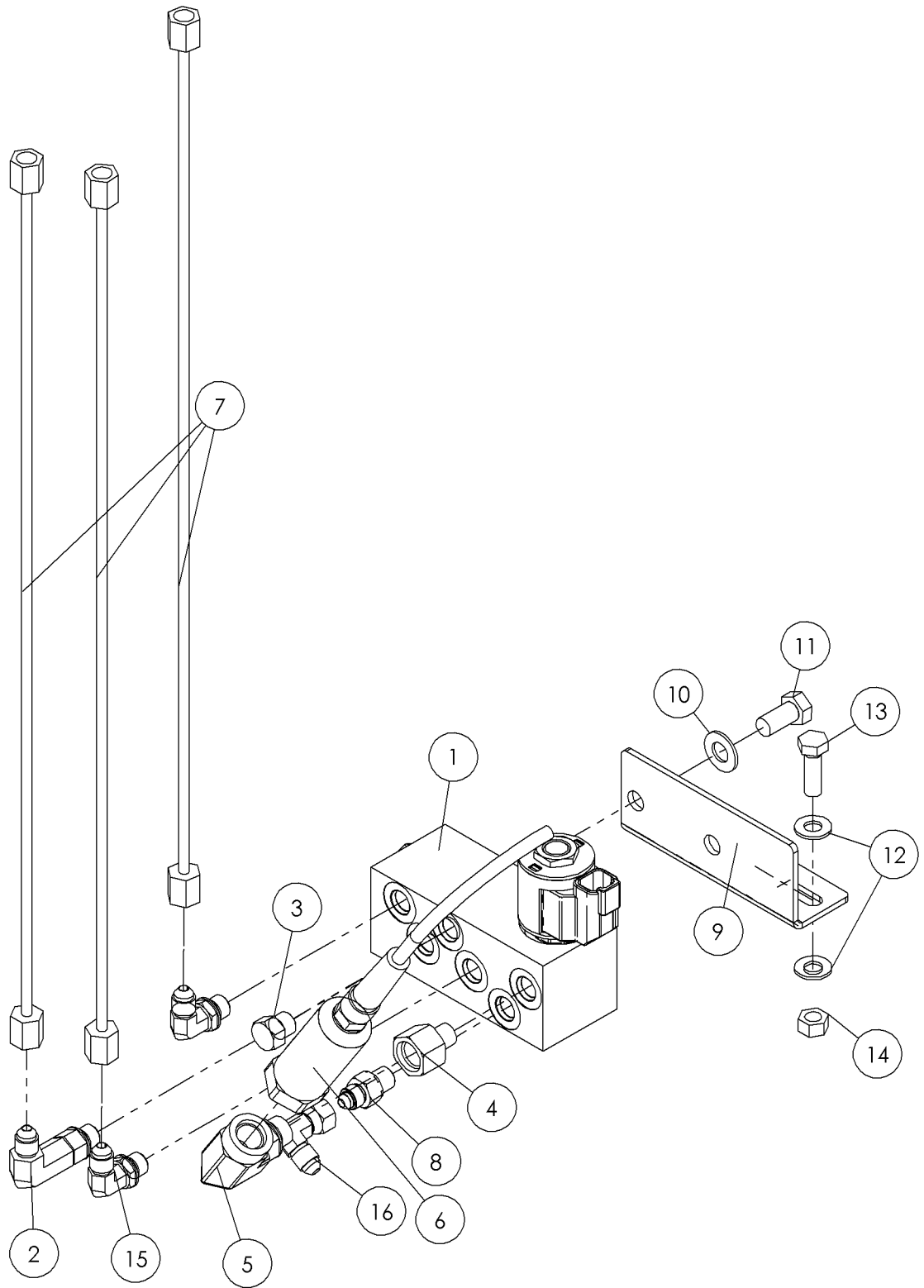
Valve - Remote Lockout Fig 4-10r01



Valve - Remote Lockout Fig 4-10r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296278540	VALVE - CHECK BANK	1	Breakdown Fig. 11-7
2		249977001	FITTING-90-4MJ-4MORBA-L	1	
3		67263001	PLUG - #4 ORB	1	
4		88530001	FITTING-STR-4MORB-6FORB	1	
5		296259050	FITTING- 6FOR X 6MOR FORGED ELBOW	1	
6		291892001	SWITCH - TRANSMITTER REMOTE LOCKOUT	1	
7		60908001	1/4 M x 4 M JIC ST	1	
8		296280981	BRACKET - REMOTE LOCKOUT VALVE	1	
9		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	2	
10		235726001	SCREW-HCS-.38-16X.75-GR8-YZ	2	
11		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ-A325	4	
12		238209001	SCREW-HCS-.31-18X1.00-GR8-YZ	2	
13		235741001	NUT-HEX-.31-18-GR8-YZ	2	
14		59423001	FITTING-90-4MJ-4MORBA	2	
15		53658001	FITTING-90-4MJ-4FSJ	1	

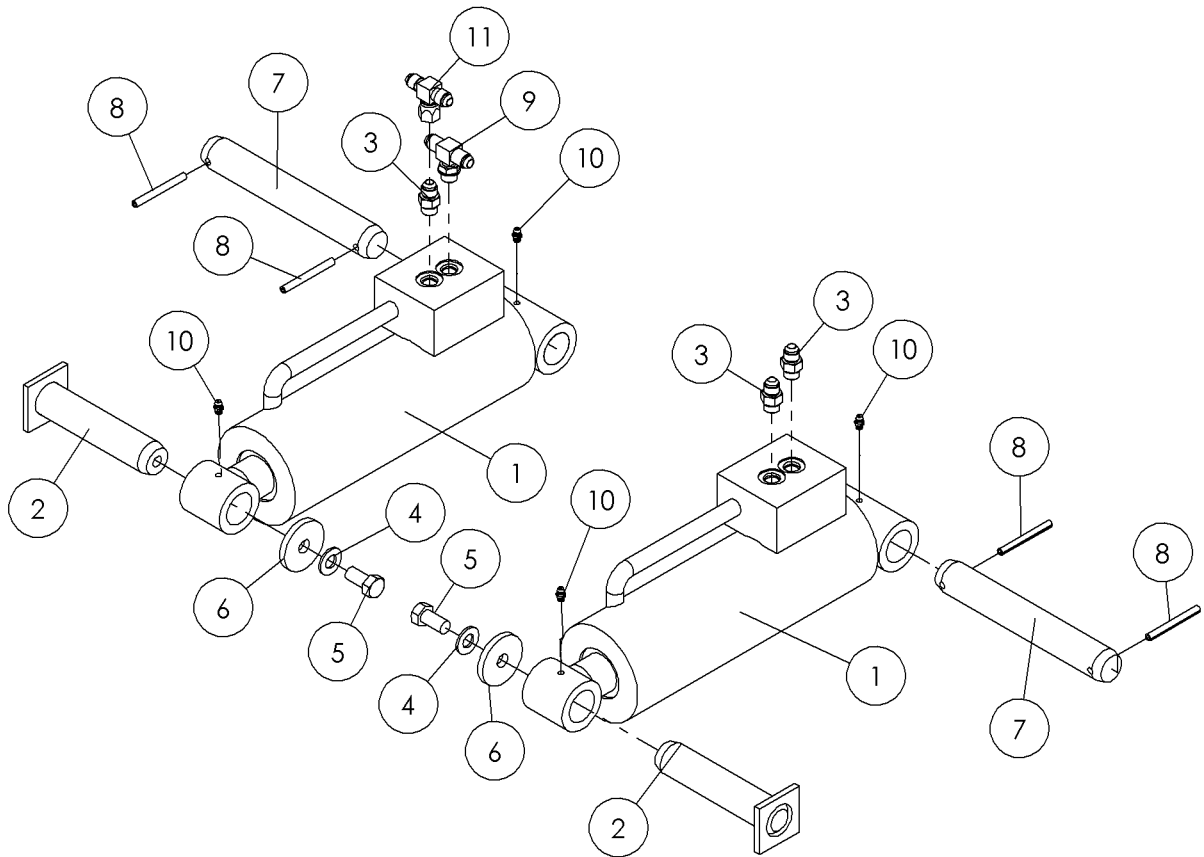
Valve - Remote Lockout Fig 4-10



Valve - Remote Lockout Fig 4-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296278540	VALVE - CHECK BANK	1	Breakdown Fig. 11-7
2		249977001	FITTING-90-4MJ-4MORBA-L	1	
3		67263001	PLUG - #4 ORB	1	
4		88530001	FITTING-STR-4MORB-6FORB	1	
5		296259050	FITTING- 6FOR X 6MOR FORGED ELBOW	1	
6		291892001	SWITCH - TRANSMITTER REMOTE LOCKOUT	1	
7		285556001	HOSE-.078X18- 4FSJIC ST/ST 6900 PSI	3	
8		60908001	1/4 M x 4 M JIC ST	1	
9		296280981	BRACKET - REMOTE LOCKOUT VALVE	1	
10		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	2	
11		235726001	SCREW-HCS-.38-16X.75-GR8-YZ	2	
12		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ-A325	4	
13		238209001	SCREW-HCS-.31-18X1.00-GR8-YZ	2	
14		235741001	NUT-HEX-.31-18-GR8-YZ	2	
15		59423001	FITTING-90-4MJ-4MORBA	2	
16		53658001	FITTING-90-4MJ-4FSJ	1	

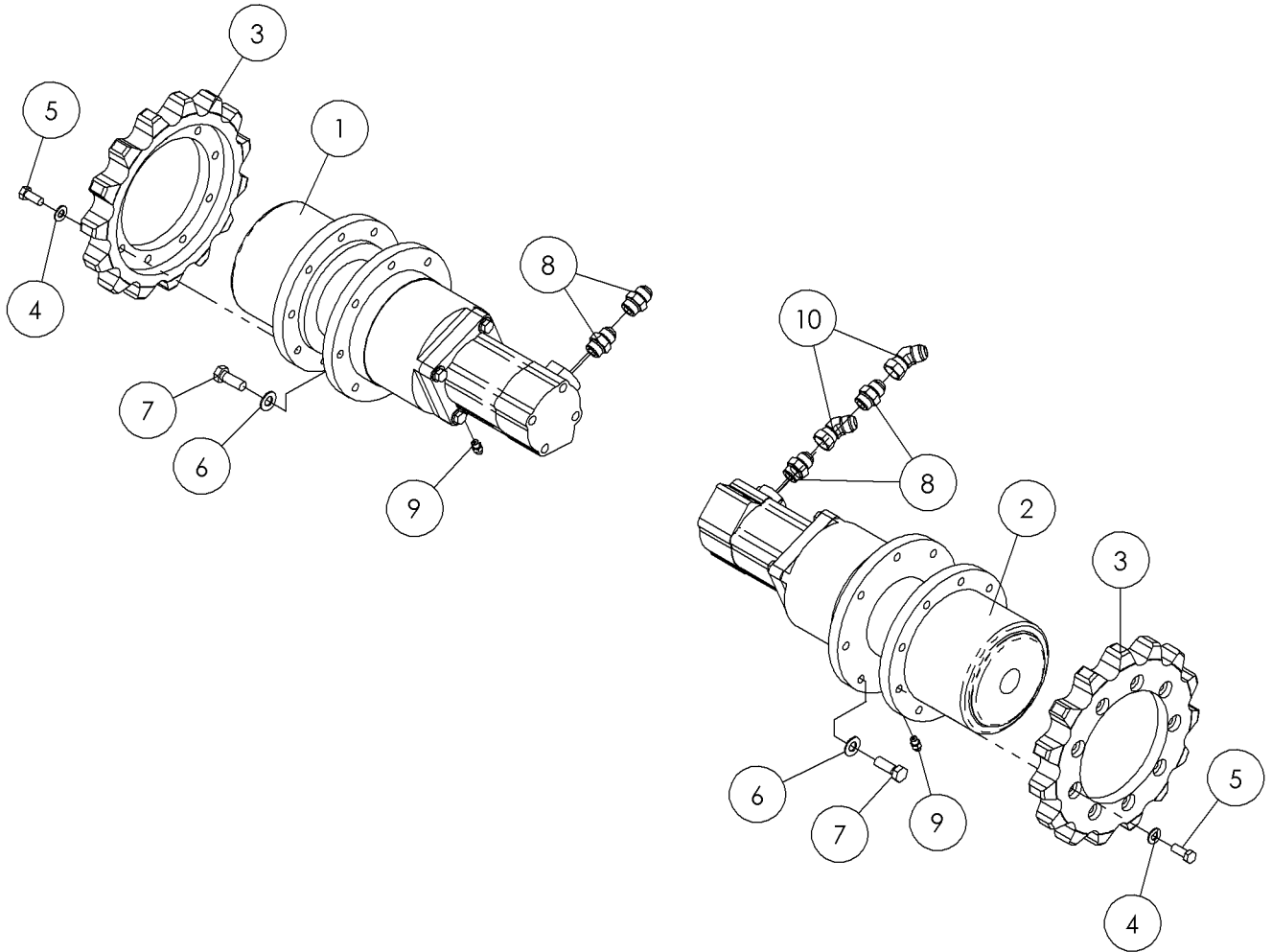
Cylinder - Rack Lift Fig 4-11



Cylinder - Rack Lift Fig 4-11

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278769001	CYLINDER-3 1/2"BORE X 7"STROKE	2	Breakdown Fig. 11-15
2		277202001	PIN-CYLINDER RACK	2	
3		65565001	FITTING - 6M O-RING X 6M JIC ST.	3	
4		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
5		235729001	SCREW-HCS-.50-13X1.00-GR8-YZ	2	
6		281787001	SLUG -.53 ID X 2.00 OD - 1/4"	2	
7		296277267	PIN - RACK CYLINDER PIN	2	
8		1788035	PIN-EXPANSION 1/4X2 1/2	4	
9		68787001	FITTING-6M (BCH)X6M JICX6M JIC	1	
10		598001	FITTING-1/4" NF ST GREASE ZERK	4	
11		60852001	6M JICX6FS JIC SWIV.NUT B TEE	1	

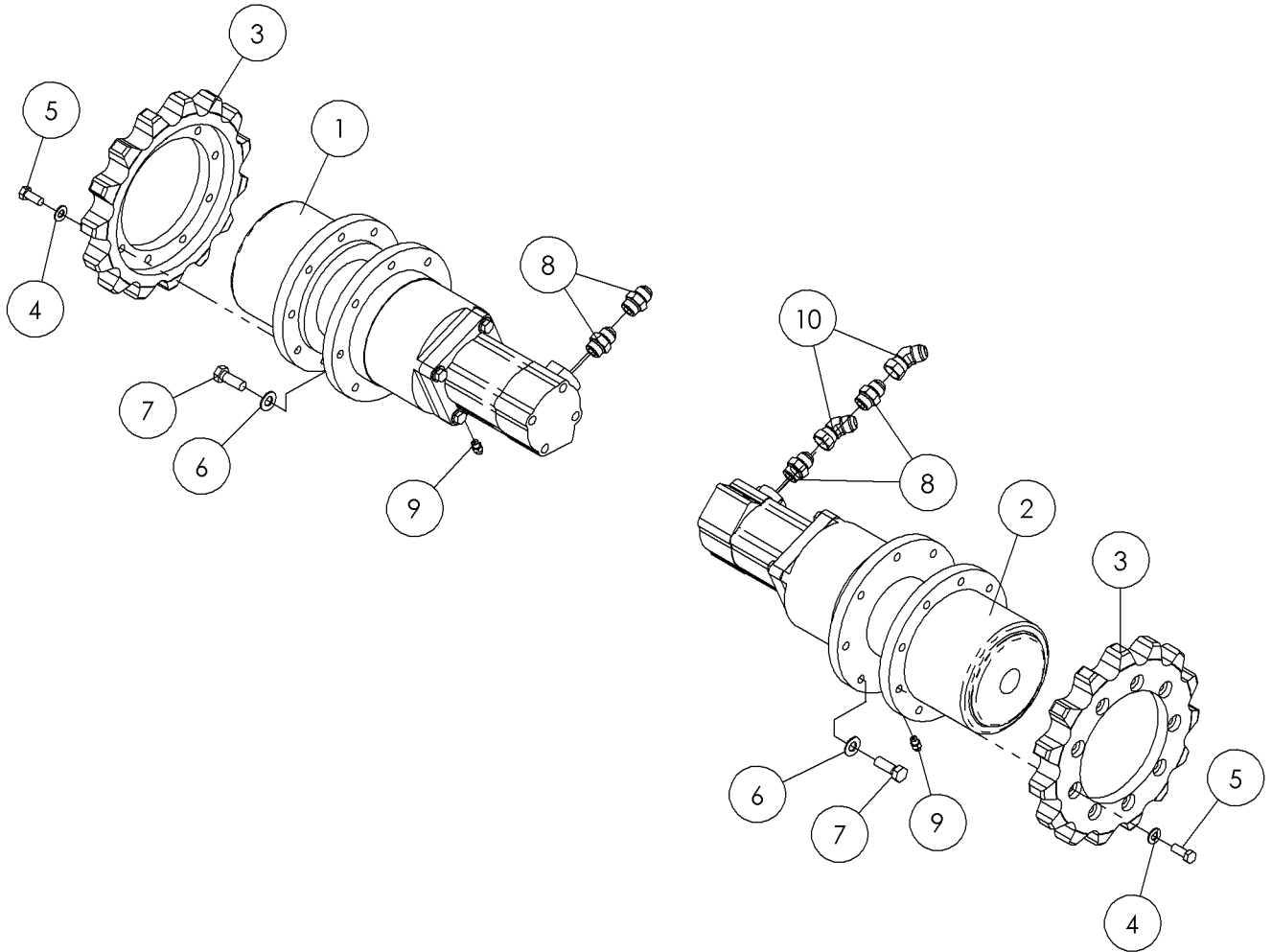
Motor - Track Drive Fig 4-12r01



Motor - Track Drive Fig 4-12r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		278999001	PLANETARY ASSEMBLY - LEFT	1	Breakdown Fig. 11-31 And 11-32
2		291553001	PLANETARY ASSEMBLY - RIGHT	1	Breakdown Fig. 11-31 And 11-32
3		244467001	PLATE - 15 T SPROCKET	2	
4		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	18	
5		508347001	SCREW-HCS-.50-20X1.25-GR8-YZ	18	
6		235715001	WASHER-FLATSTRL-.63-.66X1.31-.09-YZ-A325	16	
7		230728001	SCREW-HCS-.63-11X1.75-GR8-YZ	16	
8		53828001	FITTING-STR-12MJ-12MORB-YZ	4	
9		67849001	1/4 M x 4 M JIC ST	2	
10		58017001	FITTING - 12FS JIC X 12M JIC 45 DEG	2	

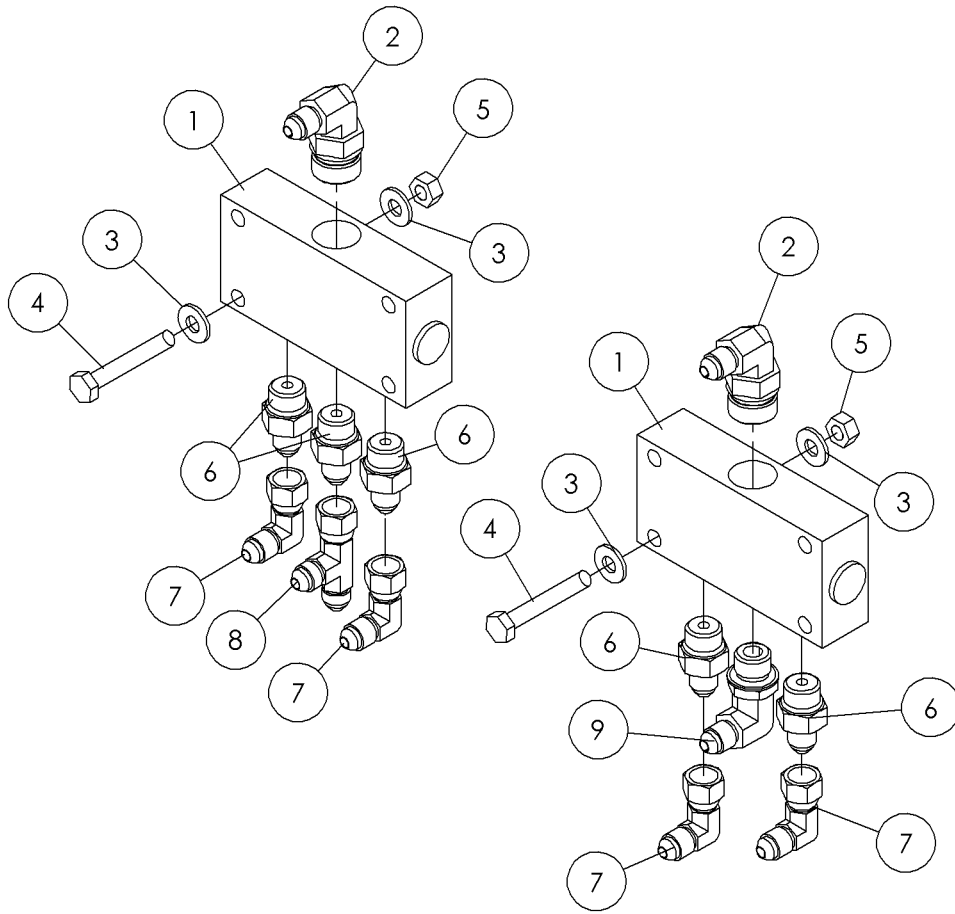
Motor - Track Drive Fig 4-12



Motor - Track Drive Fig 4-12

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278999001	PLANETARY ASSEMBLY - LEFT	1	Breakdown Fig. 11-29
2		291553001	PLANETARY ASSEMBLY - RIGHT	1	Breakdown Fig. 11-30
3		244467001	PLATE - 15 T SPROCKET	2	
4		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	18	
5		508347001	SCREW-HCS-.50-20X1.25-GR8-YZ	18	
6		235715001	WASHER-FLATSTRL-.63-.66X1.31-.09-YZ-A325	16	
7		230728001	SCREW-HCS-.63-11X1.75-GR8-YZ	16	
8		53828001	FITTING-STR-12MJ-12MORB-YZ	4	
9		67849001	1/4 M x 4 M JIC ST	2	
10		58017001	FITTING - 12FS JIC X 12M JIC 45 DEG	2	

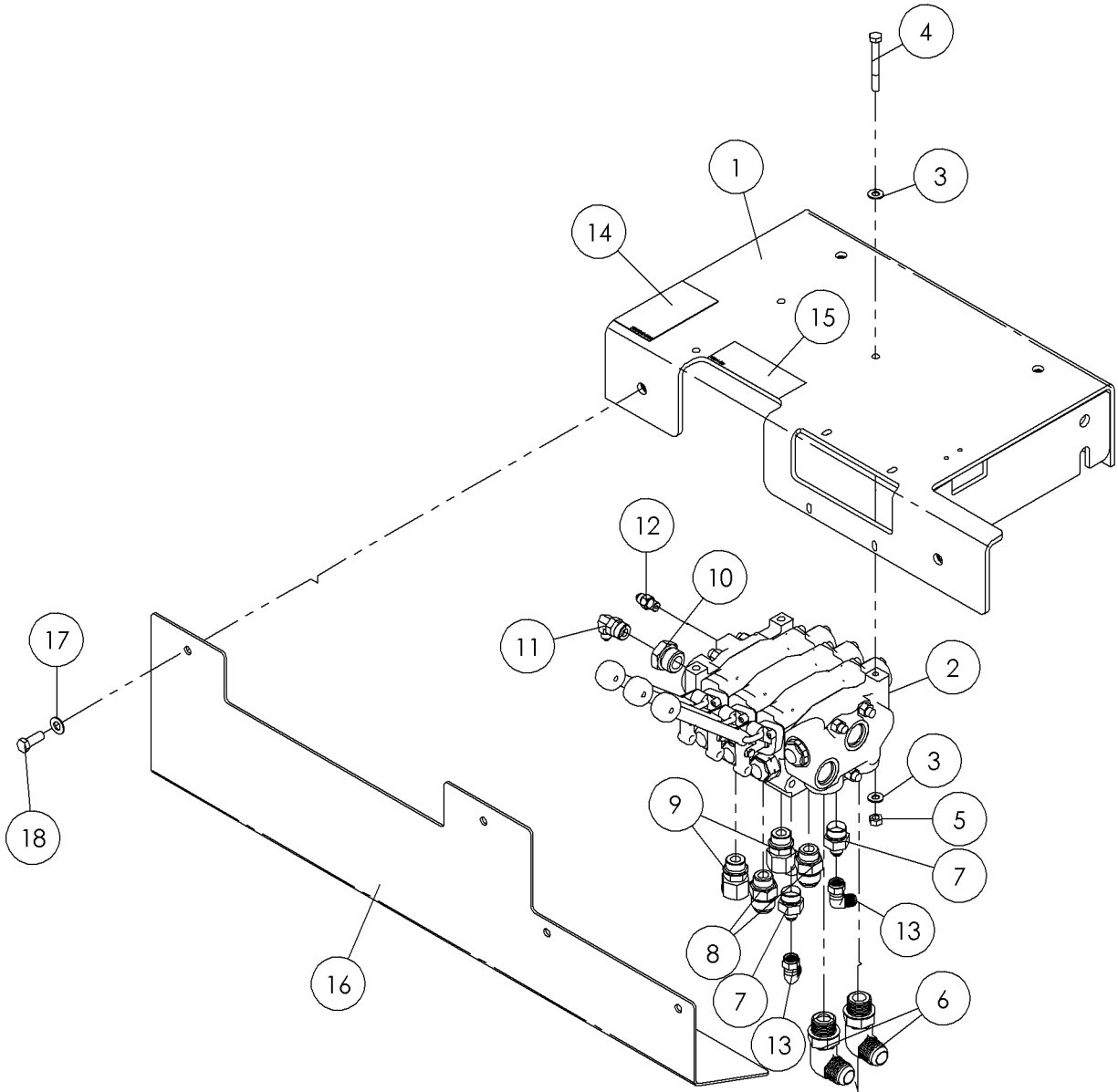
Valve - Track Brake Fig 4-13



Valve - Track Brake Fig 4-13

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		225190001	VALVE - SHUTTLE	2	
2		86671001	FITTING-8M ORING X4M JIC 90 EL	2	
3		235716001	WASHER - FLATSTRL - .25 -.28 X .63 - .06 - CZ	8	
4		248107001	BOLT-1/4-20X1 3/4 GR 8 ZINC PL	4	
5		235732001	NUT - HEX - .25 - 20 - GR8 - YZ	4	
6		57968001	FITTING-STR-4MJ-6MORB	5	
7		53658001	FITTING-4M JICX4 FS JIC 90 DEG	4	
8		60248001	TEE-4M JICX4M JICX4FS JIC	1	
9		57950001	FITTING-90-4MJ-6MORBA	1	

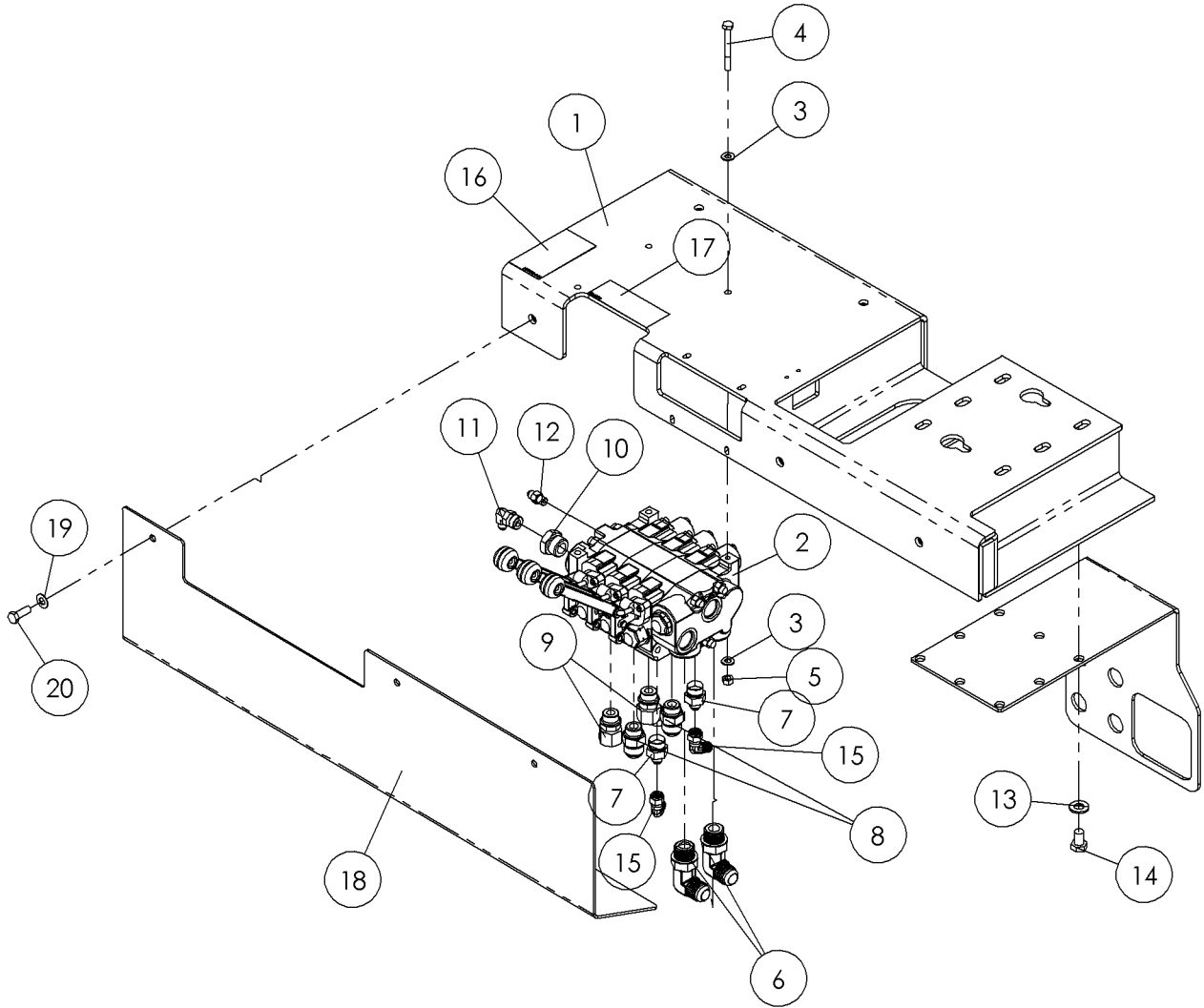
Valve - Transport-15' Fig 4-14r02



Valve - Transport-15' Fig 4-14r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296287761	WELDMENT - TRANSPORT VALVE MOUNT	1	
2		236457001	VALVE-3 SPOOL CONTROL	1	Breakdown Fig. 11-12
3		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	6	
4		250502001	BOLT 5/16-18 X 2 3/4"GR8 HEX Y	3	
5		235741001	NUT - HEX - .31 - 18 - GR8 - YZ	3	
6		278867001	FITTING-12M X 12M JIC LONG 90	2	
7		296269633	FITTING - 10MB - 6MJ ST/R.062	2	
8		60910001	10MX12M JIC ST.ADAPTER	2	
9		67552001	10MX12M JIC 45 DEG.	2	
10		81702001	FITTING - STR - 12MORB - 8FORB	1	
11		86671001	FITTING-8M ORING X4M JIC 90 EL	1	
12		60908001	FITTING-4MX4M JIC STR ADAPTER	1	
13		60851001	FITTING-6M JICX6FS JIC 90ELBOW	2	
14		7000c446	DECAL - NO WELD	1	
15		700ia472	DECAL-CTRL. TRACK & RACK (UG)	1	
16		296287768	PLATE - SHIELD TRANSPORT	1	
17		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	2	
18		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	2	

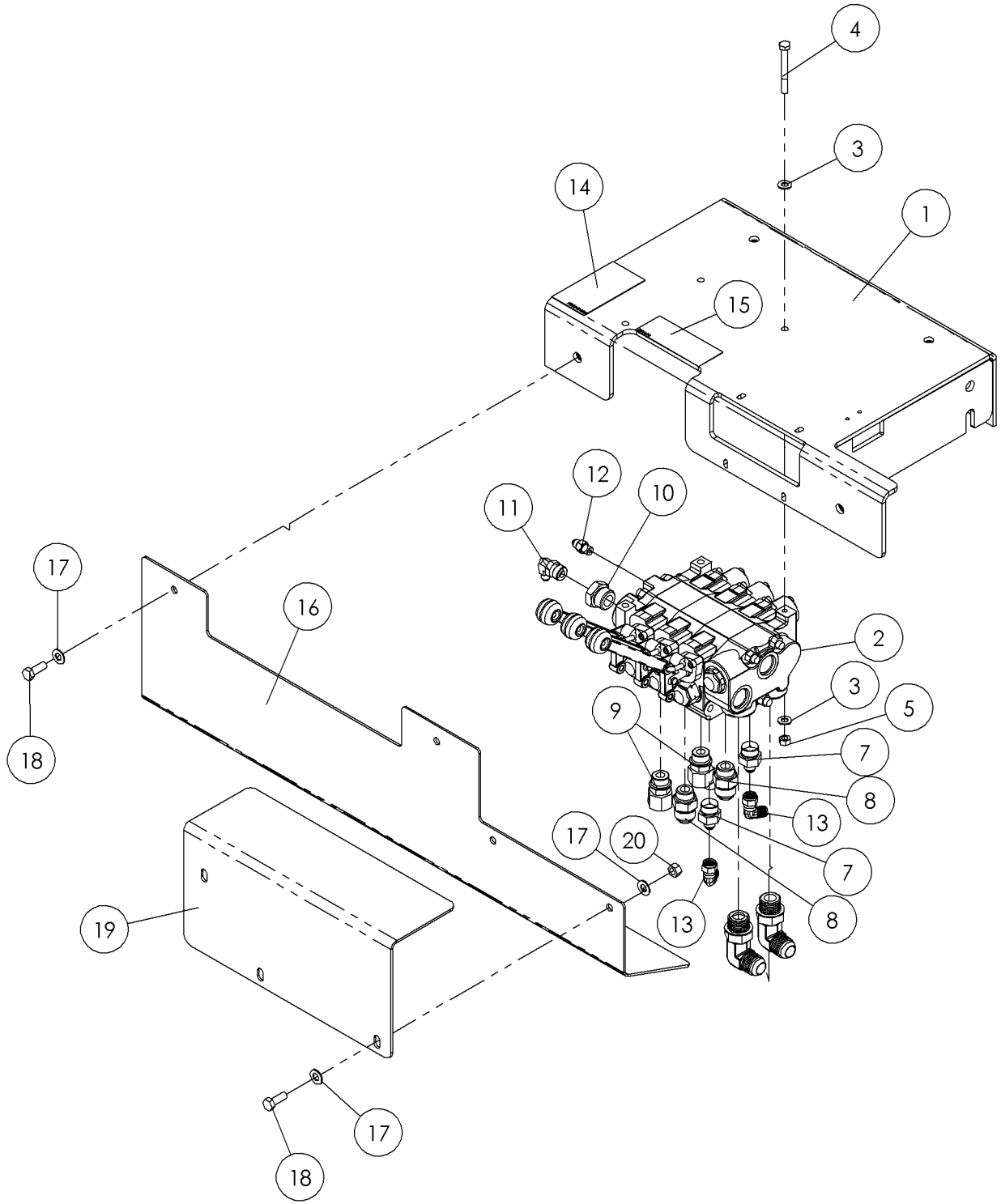
Valve - Transport Fig 4-14r01



Valve - Transport Fig 4-14r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280874	MOUNT - TRANSPORT VALVE	1	
2		236457001	VALVE-3 SPOOL CONTROL	1	Breakdown Fig. 11-12
3		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	6	
4		250502001	BOLT 5/16-18 X 2 3/4"GR8 HEX Y	3	
5		235741001	NUT - HEX - .31 - 18 - GR8 - YZ	3	
6		278867001	FITTING-12M X 12M JIC LONG 90	2	
7		296269633	FITTING - 10MB - 6MJ ST/R.062	2	
8		60910001	10MX12M JIC ST.ADAPTER	2	
9		67552001	10MX12M JIC 45 DEG.	2	
10		81702001	FITTING - STR - 12MORB - 8FORB	1	
11		86671001	FITTING-8M ORING X4M JIC 90 EL	1	
12		60908001	FITTING-4MX4M JIC STR ADAPTER	1	
13		235712001	WASHER-1/2 SAE HARD ZINC PLTD - Replaced by 485025	4	
14		235728001	BOLT-1/2-13X3/4 GR8 ZYC	4	
15		60851001	FITTING-6M JICX6FS JIC 90ELBOW	2	
16		7000c446	DECAL - NO WELD	1	
17		700ia472	DECAL-CTRL. TRACK & RACK (UG)	1	
18		296280438	SHIELD - TRANSPORT	1	
19		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	3	
20		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	3	
21		296280225	PANEL - RACK BULKHEAD	1	

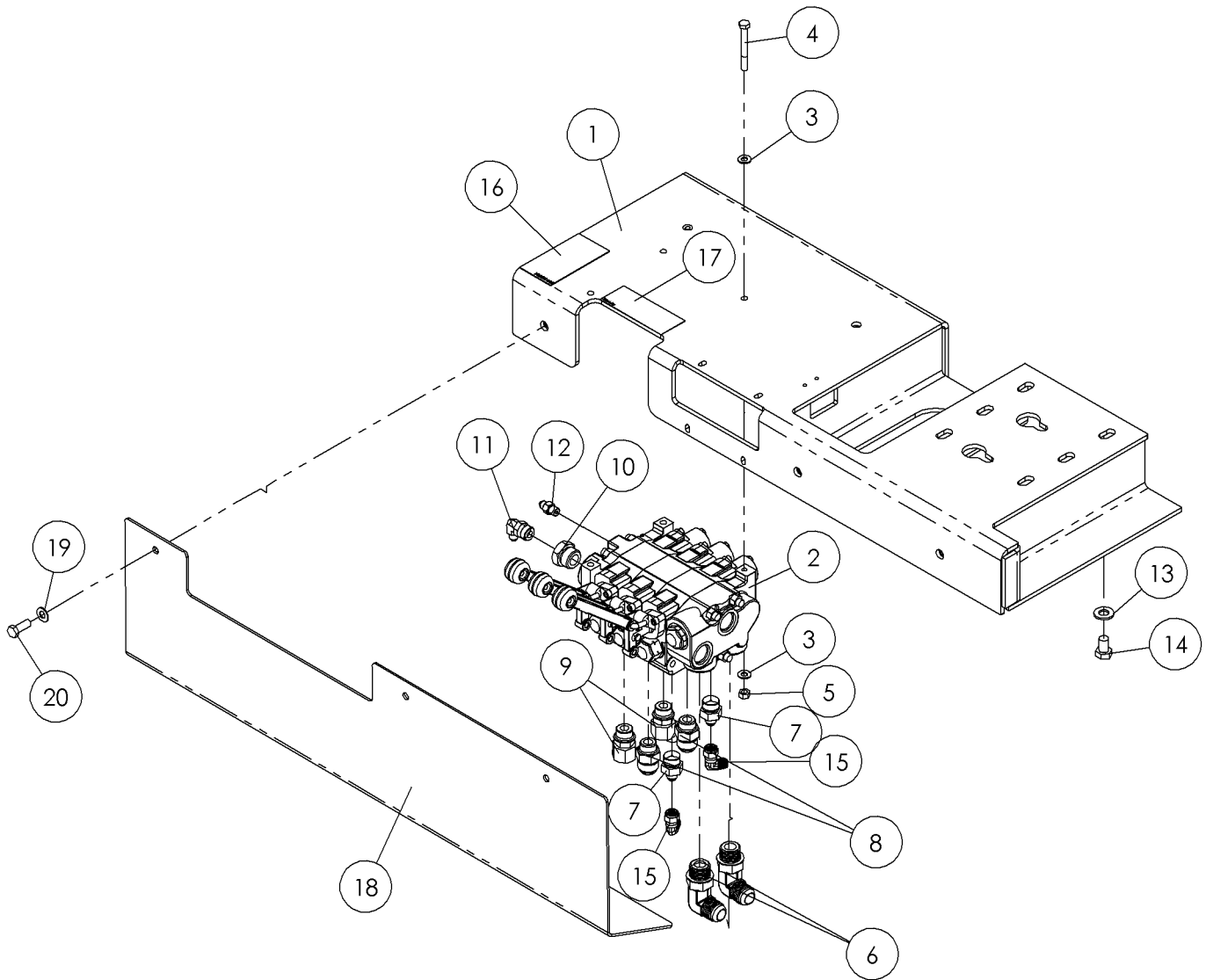
Valve - Transport-10' Fig 4-14x01



Valve - Transport-10' Fig 4-14x01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296287761	WELDMENT - TRANSPORT VALVE MOUNT	1	
2		236457001	VALVE-3 SPOOL CONTROL	1	Breakdown Fig. 11-12
3		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ-A325	6	
4		250502001	SCREW-HCS-.31-18X2.75-GR8-YZ	3	
5		235741001	NUT-HEX-.31-18-GR8-YZ	3	
6		278867001	FITTING -90-12MJIC-12MORBA-L	2	
7		296269633	FITTING-10MB - 6MJ ST/R.062	2	
8		60910001	FITTING-STR-12MJ-10MORB	2	
9		67552001	FITTING-45-12MJ-10MORBA	2	
10		81702001	FITTING - STR - 12MORB - 8FORB	1	
11		86671001	FITTING-90-4MJ-8MORBA	1	
12		60908001	1/4 M x 4 M JIC ST	1	
13		60851001	FITTING-6M JICX6FS JIC 90ELBOW	2	
14		7000c446	DECAL - NO WELD	1	
15		700ia472	DECAL - CONTROL TRACK AND RACK	1	
16		296287768	PLATE - SHIELD TRANSPORT	1	
17		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	6	
18		235727001	SCREW-HCS-.38-16X1.00-GR8-YZ	4	
19		296287769	PLATE - SHIELD TRANSPORT	1	
20		163621963	NUT-HEXCTRLOCK-.38-16-GR5-YZ	2	

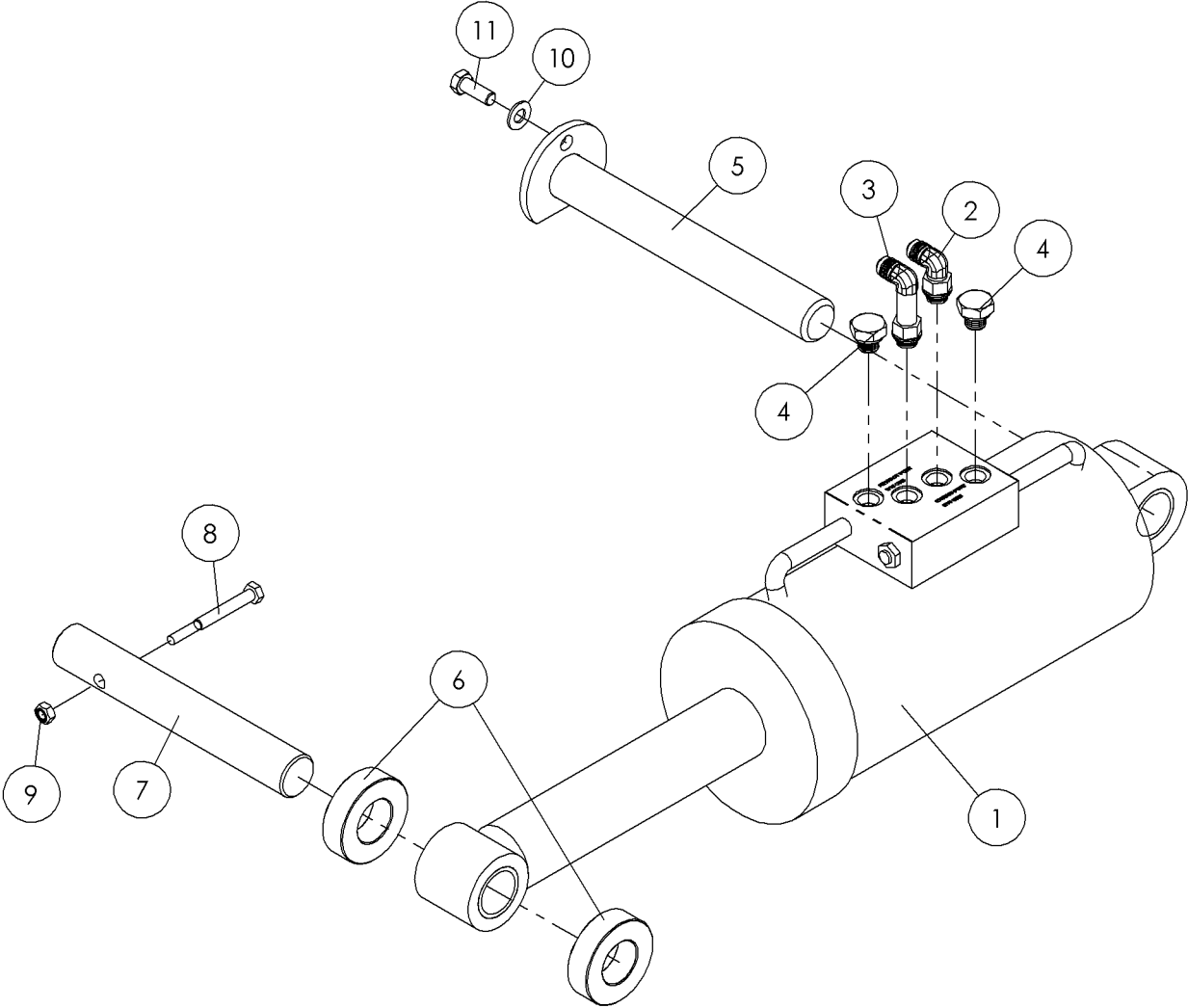
Valve - Transport Fig 4-14



Valve - Transport Fig 4-14

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280874	MOUNT - TRANSPORT VALVE	1	
2		236457001	VALVE-3 SPOOL CONTROL	1	Breakdown Fig. 11-12
3		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ-A325	6	
4		250502001	SCREW-HCS-.31-18X2.75-GR8-YZ	3	
5		235741001	NUT-HEX-.31-18-GR8-YZ	3	
6		278867001	FITTING -90-12MJIC-12MORBA-L	2	
7		296269633	FITTING-10MB - 6MJ ST/R.062	2	
8		60910001	FITTING-STR-12MJ-10MORB	2	
9		67552001	FITTING-45-12MJ-10MORBA	2	
10		81702001	FITTING - STR - 12MORB - 8FORB	1	
11		86671001	FITTING-90-4MJ-8MORBA	1	
12		60908001	1/4 M x 4 M JIC ST	1	
13		235712001	WASHER 1/2 X 1.0 X.1 ZINC PLTD	4	
14		235728001	SCREW-HCS-.50-13X.75-GR8-YZ	4	
15		60851001	FITTING-6M JICX6FS JIC 90ELBOW	2	
16		7000C446	DECAL - NO WELD	1	
17		700IA472	DECAL - CONTROL TRACK AND RACK	1	
18		296280438	SHIELD - TRANSPORT	1	
19		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	3	
20		235727001	SCREW-HCS-.38-16X1.00-GR8-YZ	3	

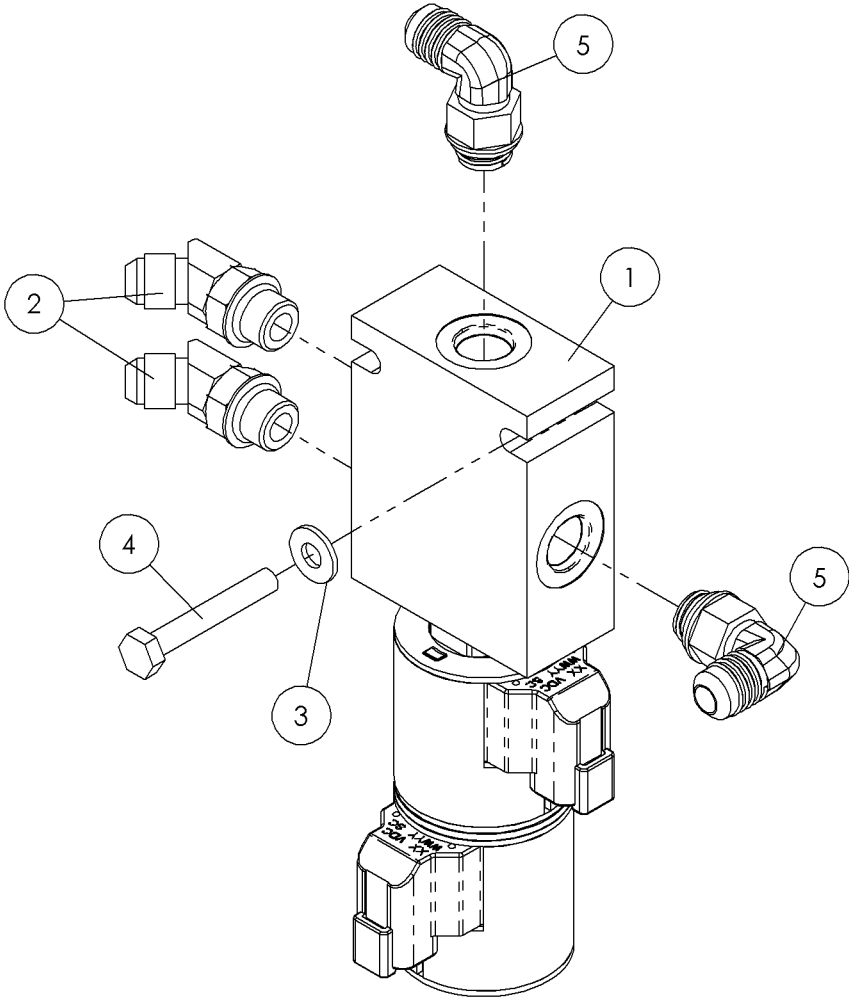
Cylinder - Outrigger Fig 4-15



Cylinder - Outrigger Fig 4-15

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280124	CYLINDER - 5 X 8 3000PSI	1	Breakdown Fig. 11-16
2		122606001	FITTING-6MX6M JIC90 DEG/ RSTS	1	
3		157172001	FITTING - 6M X 6M JIC LL 90 DEG	1	
4		5553001	FITTING - PLUG - 6MORB - HEX	2	
5		230858001	PIN-OUTRIGGER	1	
6		296275290	SPACER - CYLINDER	2	
7		213586001	PIN-FOOT CYL. TOP	1	
8		238212001	BOLT - 5/16-18 X 3 HEX GRADE 8	1	
9		240333001	NUT-5/16-18 GR8 TL ZINC PLTD	1	
10		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	1	
11		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1	

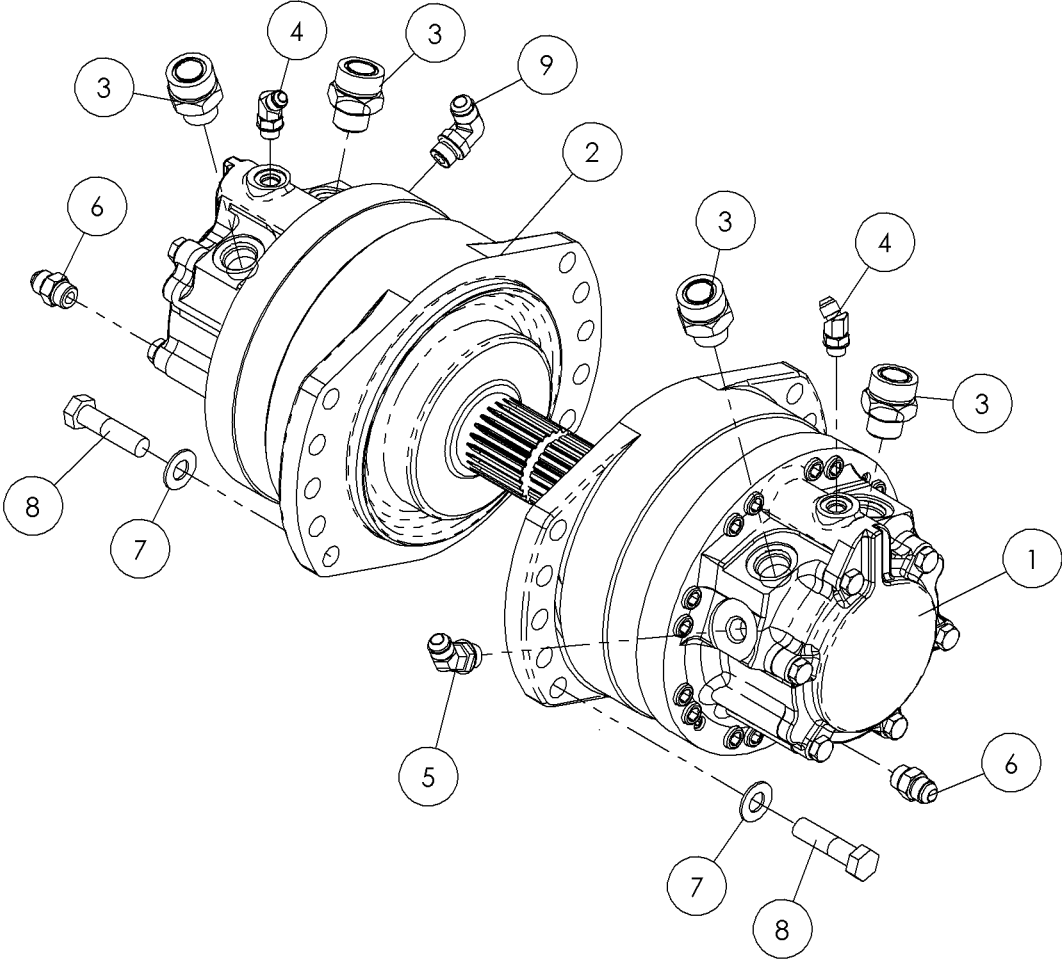
Valve - Outrigger Fig 4-16



Valve - Outrigger Fig 4-16

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296269565	VALVE - 3 POSITION, 4 WAY	1	Breakdown Fig. 11-9
2		65563001	FITTING-45-6MJ-6MORBA	2	
3		510337603	WASHER- FLATSTD-.25-.31X.75-.07-YZ	2	
4		248107001	SCREW-HCS-.25-20X1.75-GR8-YZ	2	
5		59426001	FITTING - 90-6MJ-6MORBA	2	

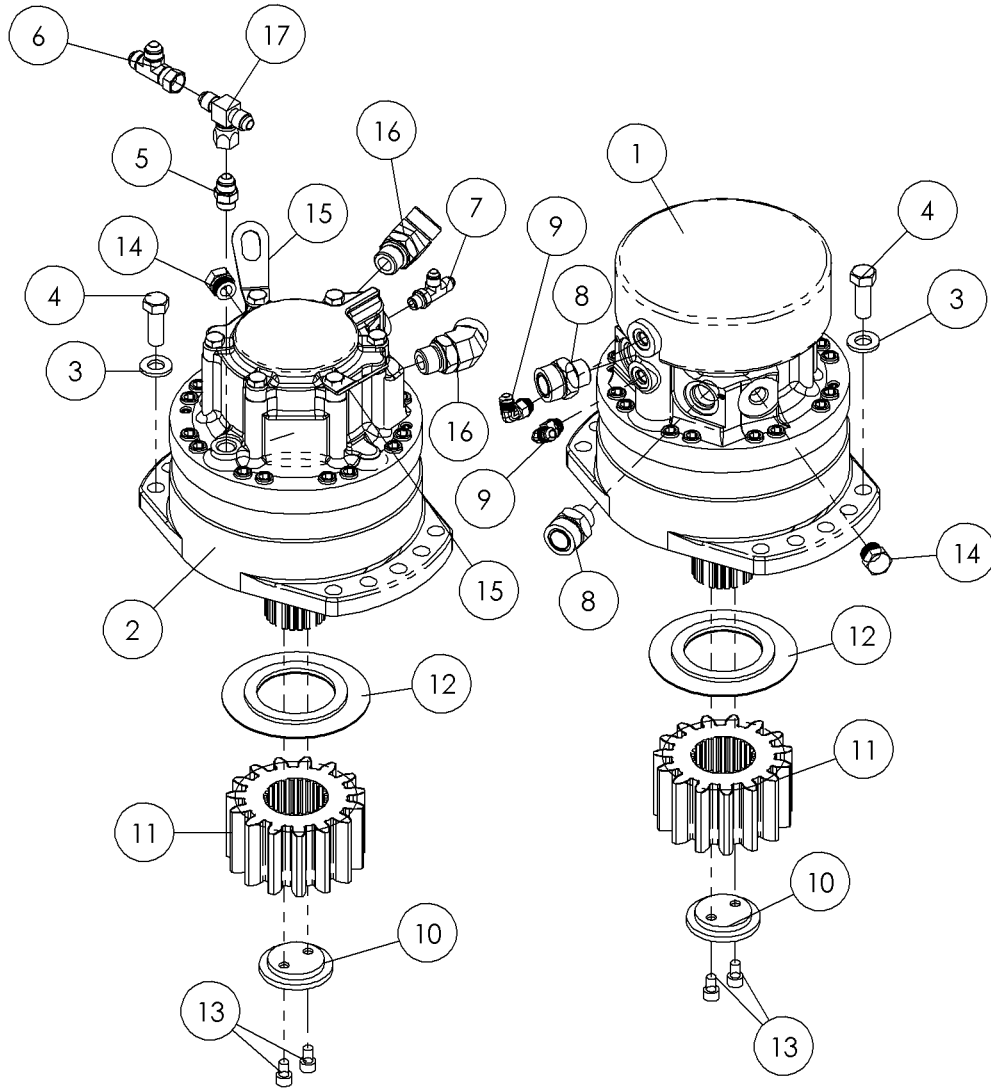
Motor - Rotation Drive Fig 4-17



Motor - Rotation Drive Fig 4-17

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279981	MOTOR - HYD MS08 - 9 D	1	Breakdown Fig. 11-25
2		296279982	MOTOR - HYD MS08 - P G	1	Breakdown Fig. 11-24
3		278957001	FITTING - 12 MOR X 16 MFFOR	4	
4		65563001	FITTING - 6M O-RING X 6M JIC 45 DEGREE	2	
5		53834001	#8M O-RING-#8M JIC 45 DEG.	1	
6		53824001	FITTING-#8M O-RING-#8M JIC ST.	2	
7		235715001	WASHER-5/8 SAE HARD ZINC PLTD	20	
8		280647001	BOLT-5/8-11 X 2-1/2 GR 8 Y/ZINC PLTD.	20	
9		53837001	FITTING - 8M O-RING X 8M JIC 90 DEGREE	1	

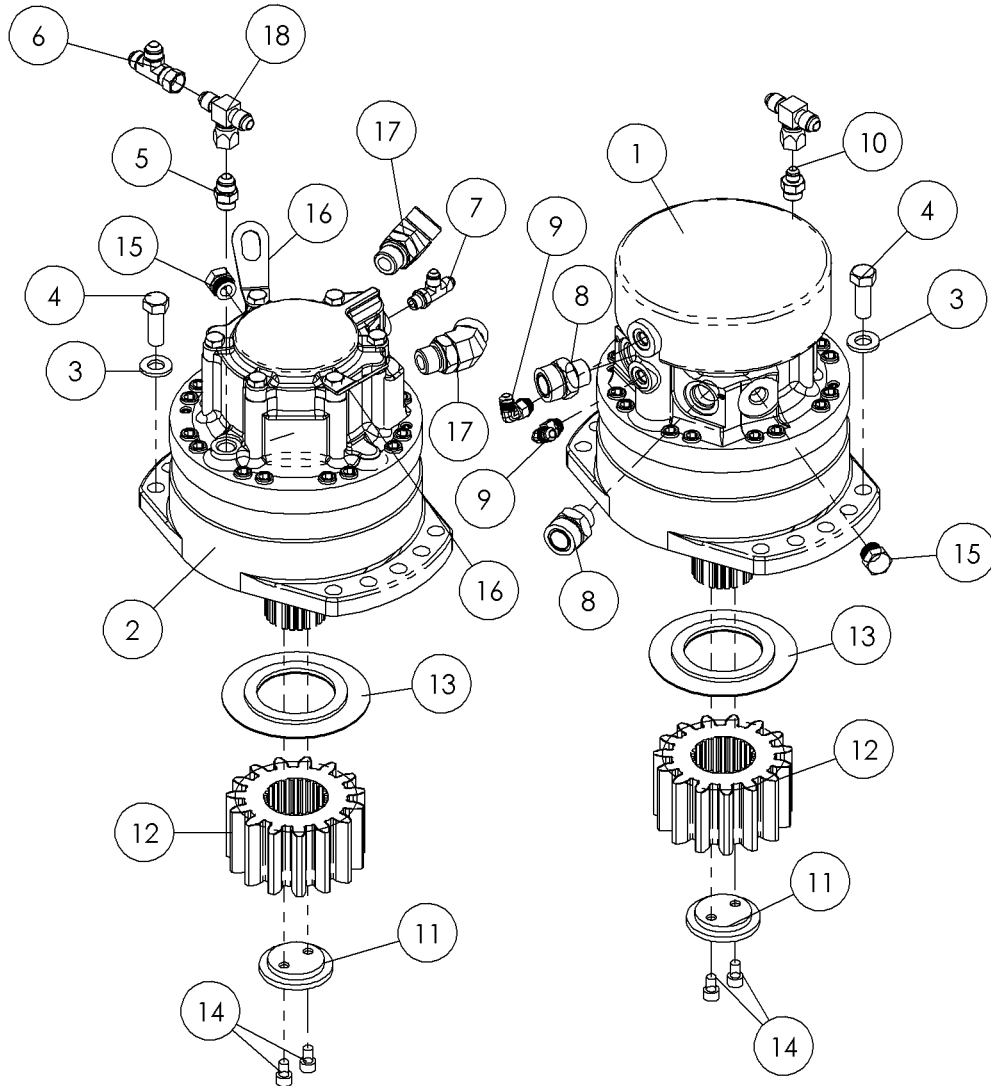
Motor - Thrust Drive Fig 4-18r01



Motor - Thrust Drive Fig 4-18r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		278973001	MOTOR - 57.5 CID MS08 G W/ BRAKE	1	Breakdown Fig. 11-29
2		276258001	MOTOR-57.5 CI/REV MS08 D PREF	1	Breakdown Fig. 11-28
3		235715001	WASHER-5/8 SAE HARD ZINC PLTD	20	
4		230728001	BOLT-5/8-11X1 3/4GR 8 PLATED	20	
5		53824001	FITTING-#8M O-RING-#8M JIC ST.	2	
6		59461001	8 JIC SW RUN TEE	1	
7		68774001	FITTING-6MX6M JIC (RUN)X6M JIC	1	
8		278957001	FITTING - 12 MOR X 16 MFFOR	2	
9		59426001	FITTING - 90-6MJ-6MORBA	2	
10		276320001	PLATE - PINION CAP	2	
11		276263001	GEAR - PINION THRUST PULLBACK	2	
12		296273636	WASHER - FOAM	2	
13		281779001	BOLT -M10X16MM SOC HD CAP SCREW	4	
14		56218001	FITTING - PLUG - 8MORB - HEX	2	
15		278926001	PLATE - LIFT POINT	2	
16		157809001	FITTING - 16-12 V5OLO	2	
17		63687001	8JIC FS BCHX8JIC MX8JIC M TEE	2	

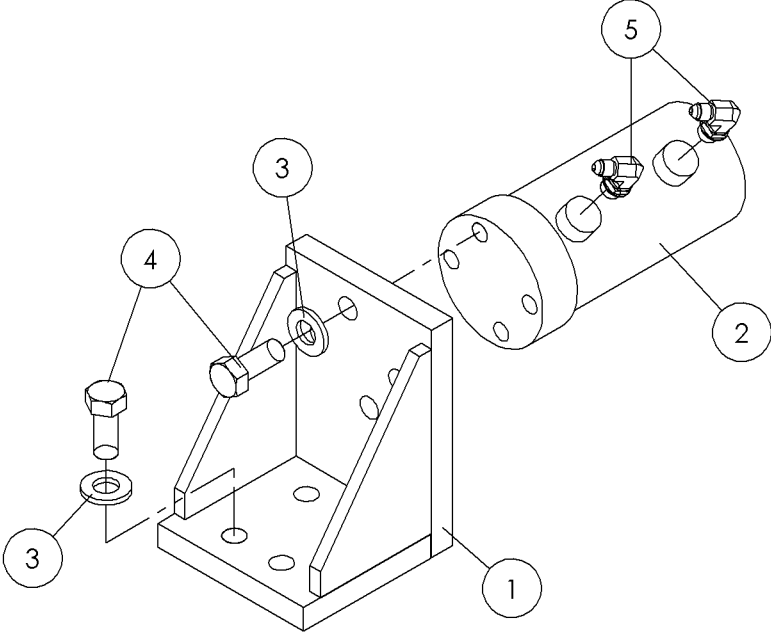
Motor - Thrust Drive Fig 4-18



Motor - Thrust Drive Fig 4-18

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278973001	MOTOR - 57.5 CID MS08 G W/BRAKE	1	Breakdown Fig. 11-29
2		276258001	MOTOR - 57.5CI/REV MS08 D PREF	1	Breakdown Fig. 11-28
3		235715001	WASHER- 5/8 SAE HARD ZINC PLTD.	20	
4		230728001	SCREW-HCS .63-11 X 1.75-GR8-YZ	20	
5		53824001	FITTING-STR-8MJ-8MORB	1	
6		59461001	8 JIC SW RUN TEE	1	
7		68774001	FITTING-RTEE-6MJ-6MORBA-6MJ	1	
8		278957001	FITTING-12MOR X 16MFFOR	2	
9		59426001	FITTING - 90-6MJ-6MORBA	2	
10		60247001	FITTING - 8M O-RING X 6M JIC ST.	1	
11		276320001	PLATE - PINION CAP	2	
12		276263001	GEAR - PINION THRUST/PULLBACK	2	
13		296273636	WASHER-FOAM	2	
14		281779001	BOLT - M10 X 16MM SOC HD CAP	4	
15		56218001	FITTING - PLUG - 8MORB - HEX	2	
16		278926001	PLATE- LIFT PONT	2	
17		157809001	FITTING - 16-12 V5OLO	2	
18		63687001	FITTING-BTEE-8MJ-8MJ-8FSJ	2	

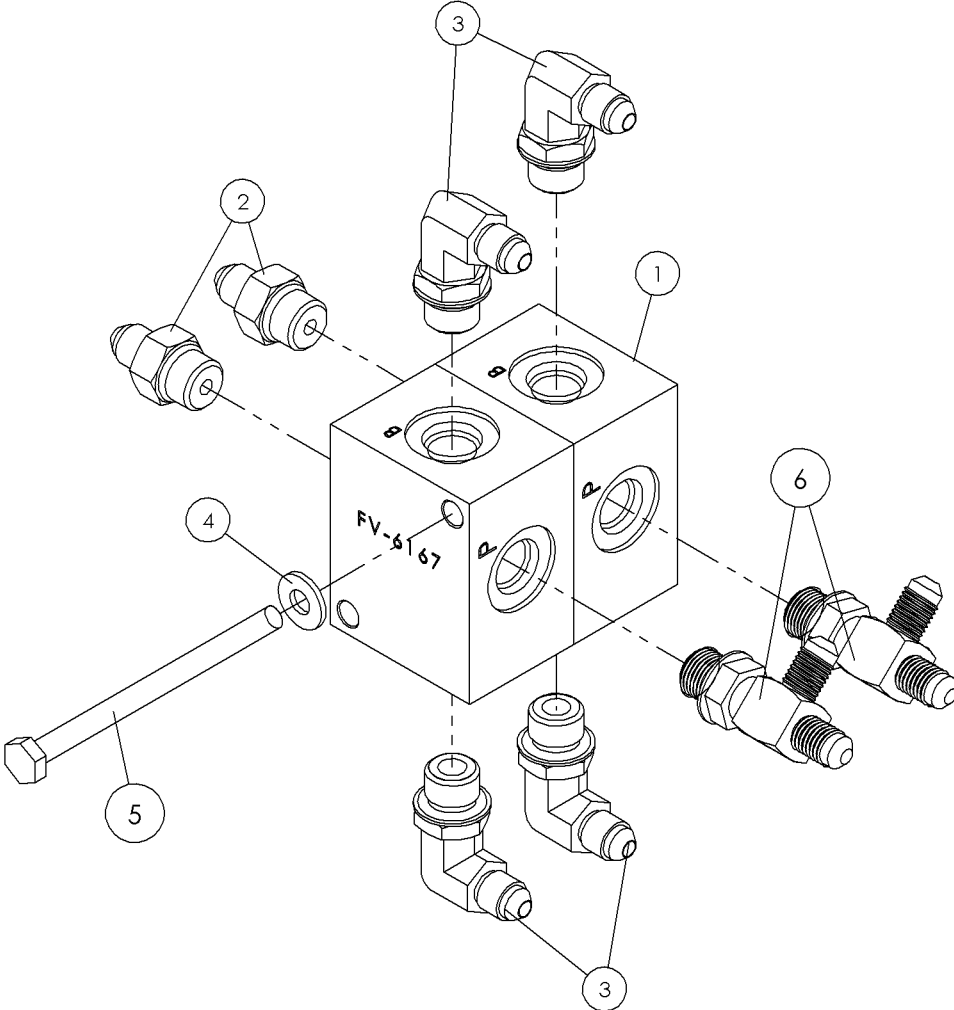
Cylinder - Gearbox Lock Fig 4-19



Cylinder - Gearbox Lock Fig 4-19

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280970	BRACKET - LOCK CYLINDER	1	
2		278306001	CYLINDER - HYDRAULIC LOCK	1	Breakdown Fig. 11-17
3		235715001	WASHER-5/8 SAE HARD ZINC PLTD	8	
4		230727001	BOLT-5/8-11X1 1/2GR8 PLATED	8	
5		57950001	FITTING-90-4MJ-6MORBA	2	

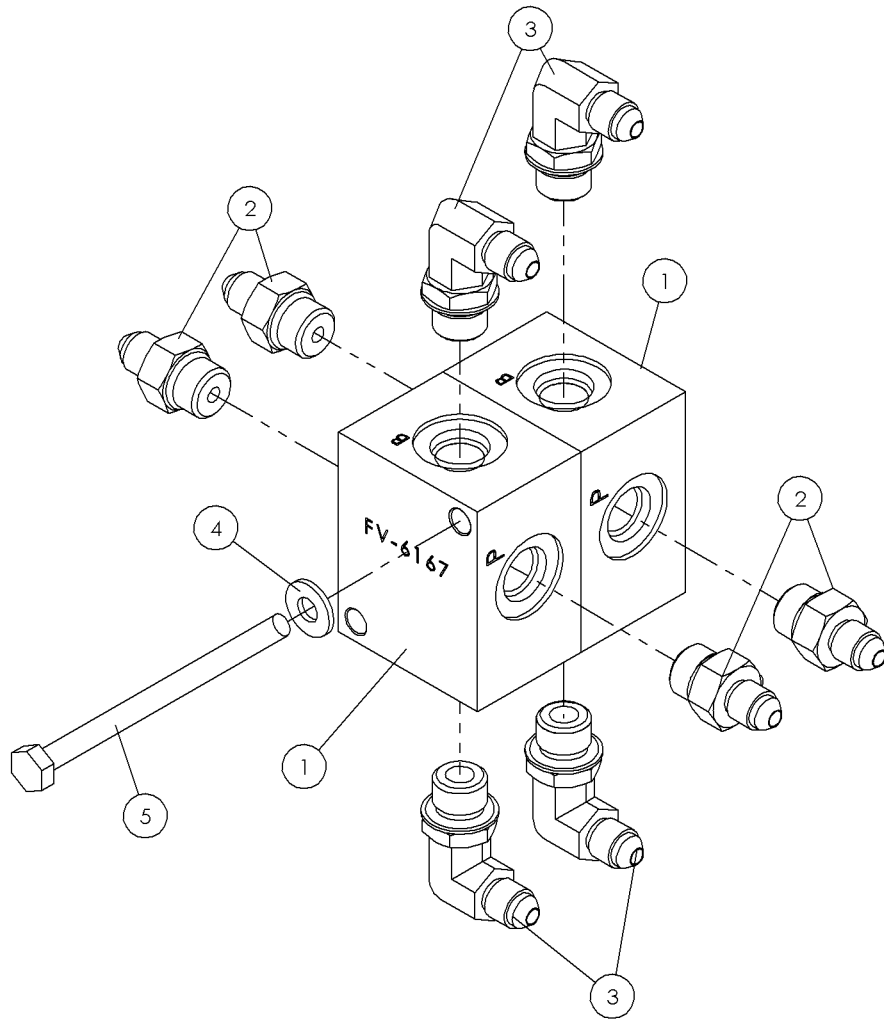
Valve - Pressure Gauge Shuttle Fig 4-20r02



Valve - Pressure Gauge Shuttle Fig 4-20r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296260411	VALVE-SHUTTLE	2	
2		57968001	FITTING-STR-4MJ-6MORB	2	
3		57950001	FITTING-90-4MJ-6MORBA	4	
4		252251001	WASHER-FLATSAE-.25-.28X.63-.06-CZ	2	
5		244204001	SCREW-HCS-.25-20X3.50-GR8-YZ-SP	2	
6		82930001	FIT-6MX4M JICX4M JIC (BCH) TEE	2	

Valve - Pressure Gauge Shuttle Fig 4-20r01

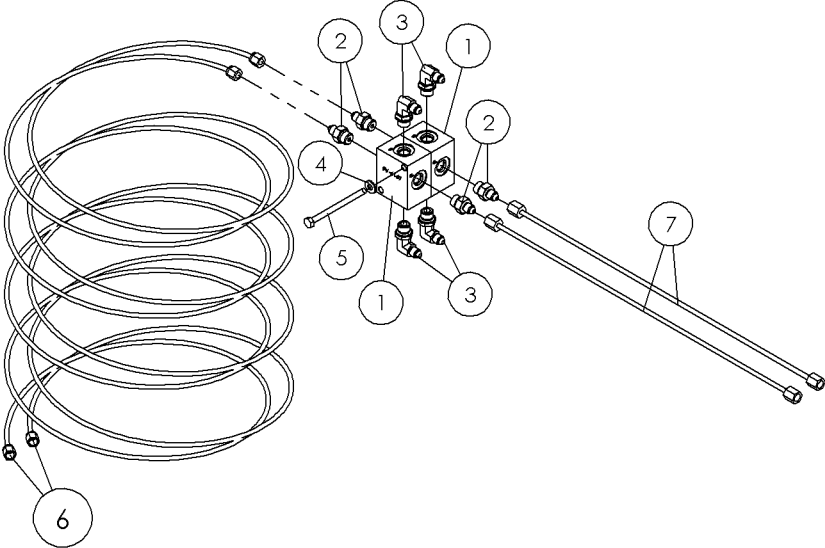


ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	296260411	VALVE-SHUTTLE	2
2	57968001	FITTING-STR-4MJ-6MORB	4
3	57950001	FITTING-90-4MJ-6MORBA	4
4	252251001	WASHER-FLATSAE-.25-.28X.63-.06-CZ	2
5	244204001	SCREW-HCS-.25-20 X 3.50-GR8-YZ-SP	2

Valve - Pressure Gauge Shuttle Fig 4-20r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296260411	VALVE - SHUTTLE	2	
2		57968001	FITTING-STR-4MJ-6MORB	4	
3		57950001	FITTING-90-4MJ-6MORBA	4	
4		252251001	WASHER-1/4 SAE FLAT ZP	2	
5		244204001	SCREW-HCS-.25-20X3.50-GR8-YZ-SP	2	

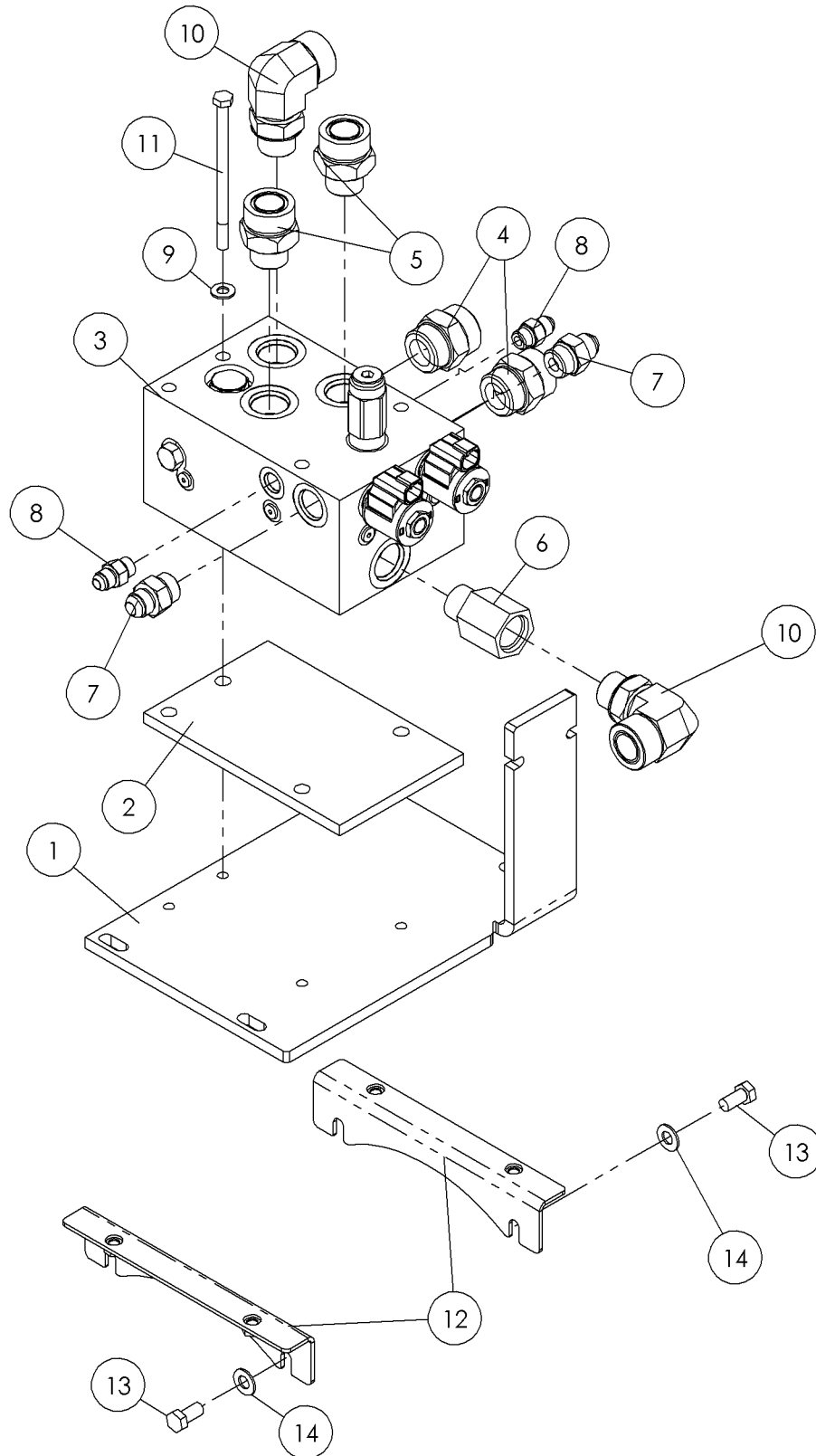
Valve - Pressure Gauge Shuttle Fig 4-20



Valve - Pressure Gauge Shuttle Fig 4-20

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296260411	VALVE - SHUTTLE	2	
		296267116	SHUTTLE VALVE	1	
		260040007	SEAL KIT	1	
2		57968001	FITTING-STR-4MJ-6MORB	4	
3		57950001	FITTING-90-4MJ-6MORBA	4	
4		252251001	WASHER-1/4 SAE FLAT ZP	2	
5		244204001	BOLT-1/4-20X3 1/2 GR8 ZNC PLTD	2	
6		278923001	HOSE - .078X168 4FSJIC ST/ST MICRO 6900 PSI	2	
7		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	2	

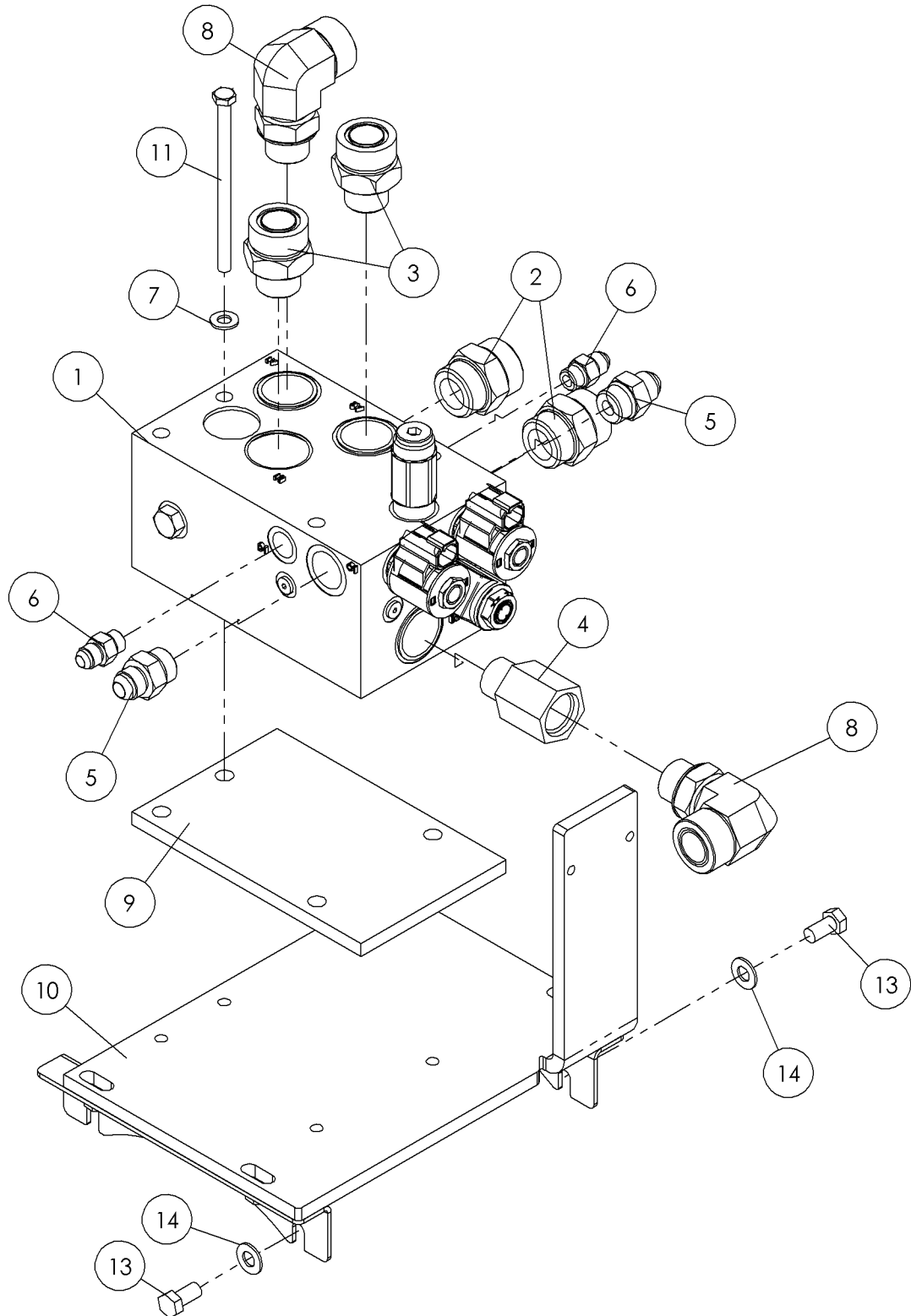
Valve - Three Speed Gearbox Fig 4-21r02



Valve - Three Speed Gearbox Fig 4-21r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296284013	MOUNT - VALVE	1	
2		296280435	PLATE-VALVE SPACER	1	
3		296269674	VALVE - 3 SPEED/LOOP FLUSH 3GPM	1	Breakdown Fig. 11-1
4		72407001	FITTING-STR-16MORFF-16MORB	2	
5		278957001	FITTING-12MOR X 16MFFOR	2	
6		296280967	FITTING - STR 12MORB - 12FORB LONG	1	
7		53826001	FITTING-STR-8MJ-10MORB	2	
8		65565001	FITTING-6M O-RING X 6M JIC ST	2	
9		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ-A325	2	
10		72971001	FITTING-90-16MORFF-12MORBA	2	
11		248069001	SCREW-HCS-.31-18X5.00-GR8-YZ	2	
12		296284012	BRACKET - VALVE MOUNT	2	
13		235726001	SCREW-HCS-.38-16X.75-GR8-YZ	4	
14		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	4	

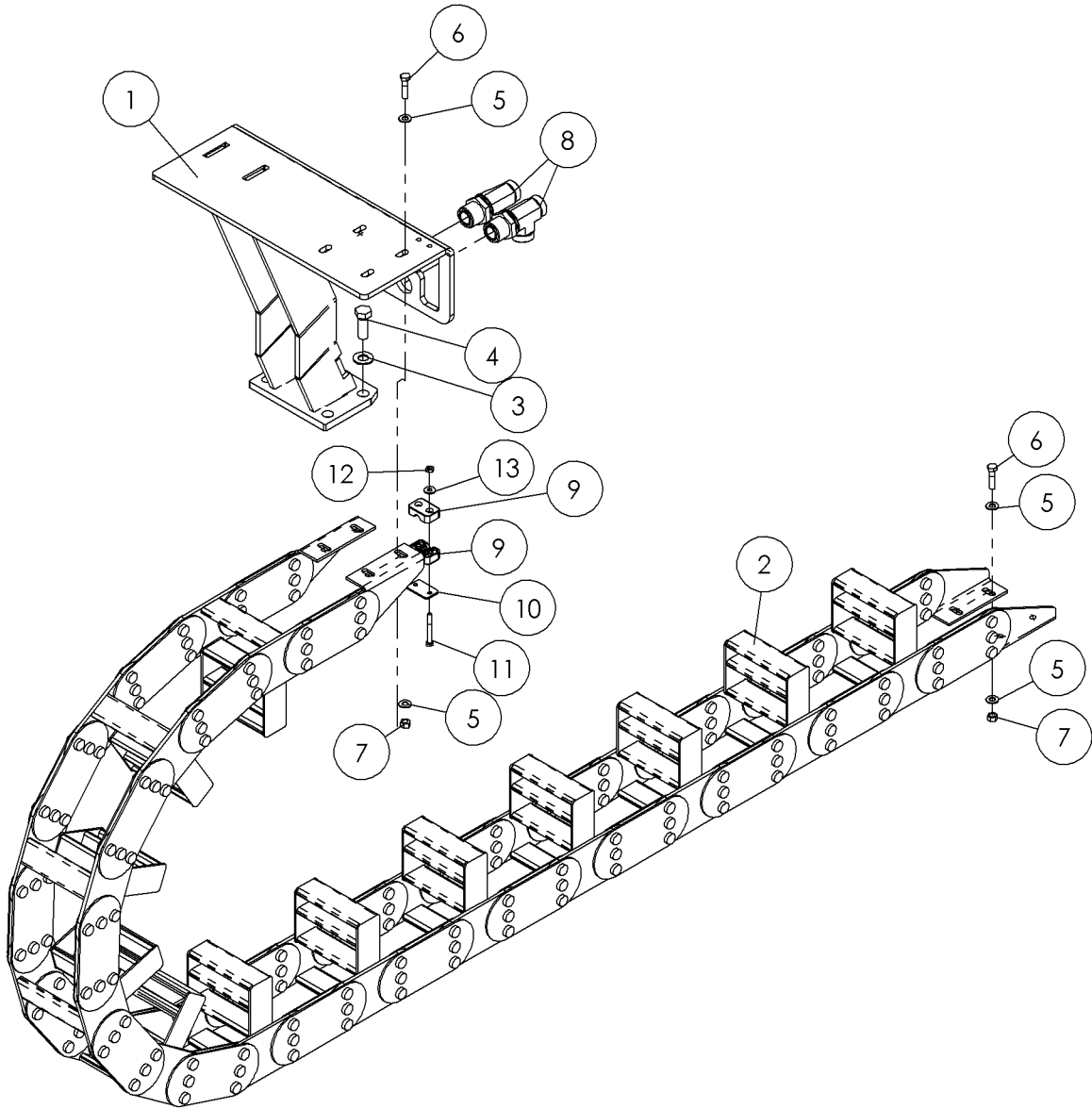
Valve - Three Speed Gearbox Fig 4-21r01



Valve - Three Speed Gearbox Fig 4-21r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296277839	VALVE - 3 SPEED SHUTTLE	1	Breakdown Fig. 11-1
2		72407001	FITTING - STR - 16MORFF - 16MORB	2	
3		278957001	FITTING - 12 MOR X 16 MFFOR	2	
4		296280967	FITTING - STR 12 MORB - 12FORB LONG	1	
5		53826001	#10M O-RING-#8M JIC ST.	2	
6		65565001	FITTING - 6M O-RING X 6M JIC ST.	2	
7		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	2	
8		72971001	FITTING-16-12C50L0	2	
9		296280435	PLATE - VALVE SPACER	1	
10		296284013	MOUNT - VALVE	1	
11		248069001	BOLT-5/16-18X5 GR 8 YZ	2	
12		296284012	BRACKET - VALVE MOUNT	2	
13		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	4	
14		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	

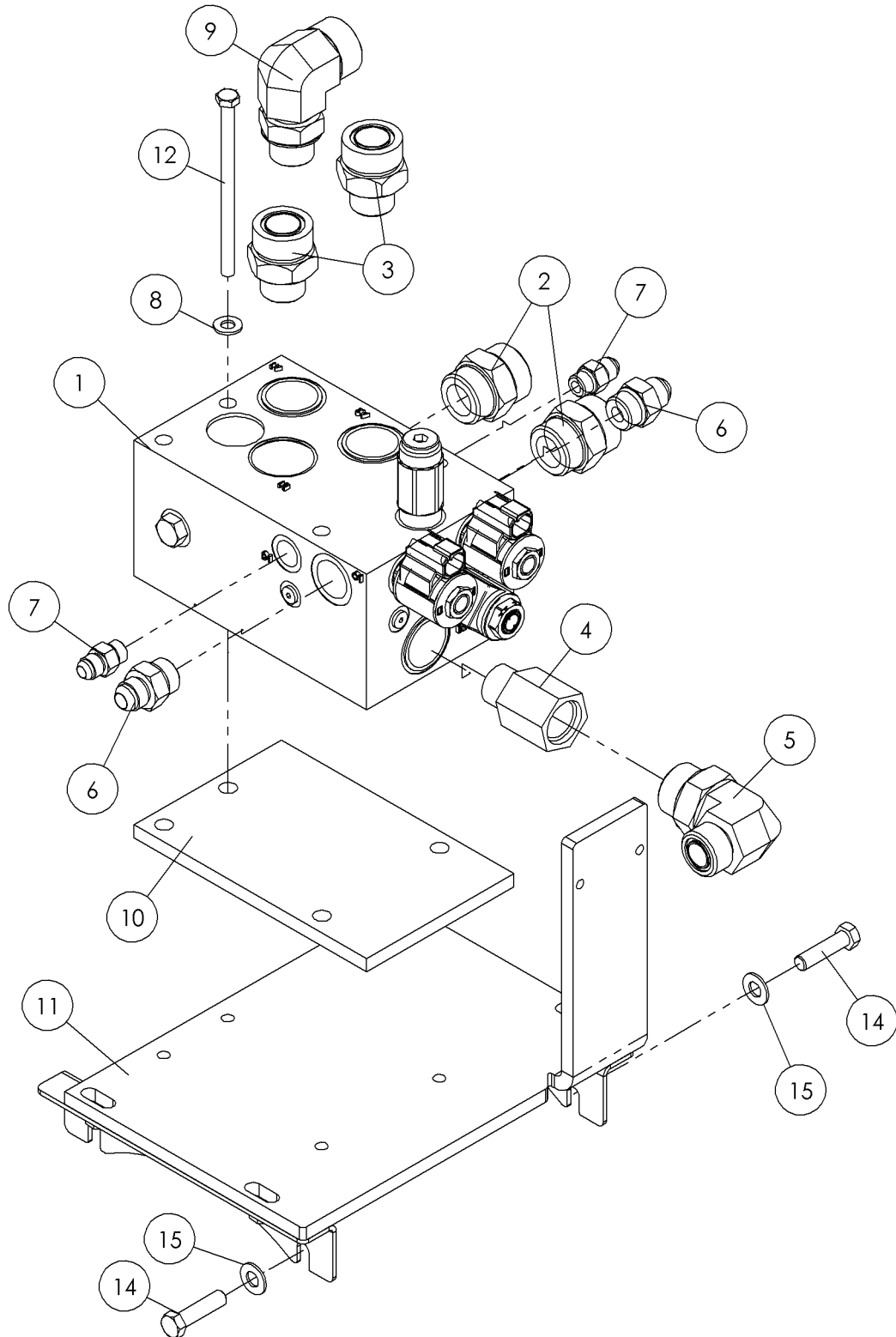
Hose Carrier & Tower Assy (10') Fig 4-21x01



Hose Carrier & Tower Assy (10') Fig 4-21x01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296280985	TOWER - HOSE TRACK	1	
2		294636001	TRACK - HOSE CARRIER 10'	1	Breakdown Fig 11-38x01
3		235715001	WASHER-5/8 SAE HARD ZINC PLTD	4	
4		230728001	BOLT-5/8-11X1 3/4GR 8 PLATED	4	
5		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	16	
6		235723001	SCREW - HCS -.38 - 16 X 1.50 - GR8 - YZ	8	
7		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	8	
8		296284064	FITTING-BHRTEE 16MORFF-16MORFF-16MORFF-L	2	
9		904738003	1/4 SINGLE HOSE CLAMP	2	
10		901678007	PLATE-COVER COP-3	1	
11		250644001	BOLT-1/4-20 X2 1/4 GR 8 Y/ZINC	2	
12		510313501	NUT-TLHEX-.25-20-A-YZ	2	
13		510337603	WASHER-FLATSTD-.25-.31X.75-.07-YZ	2	

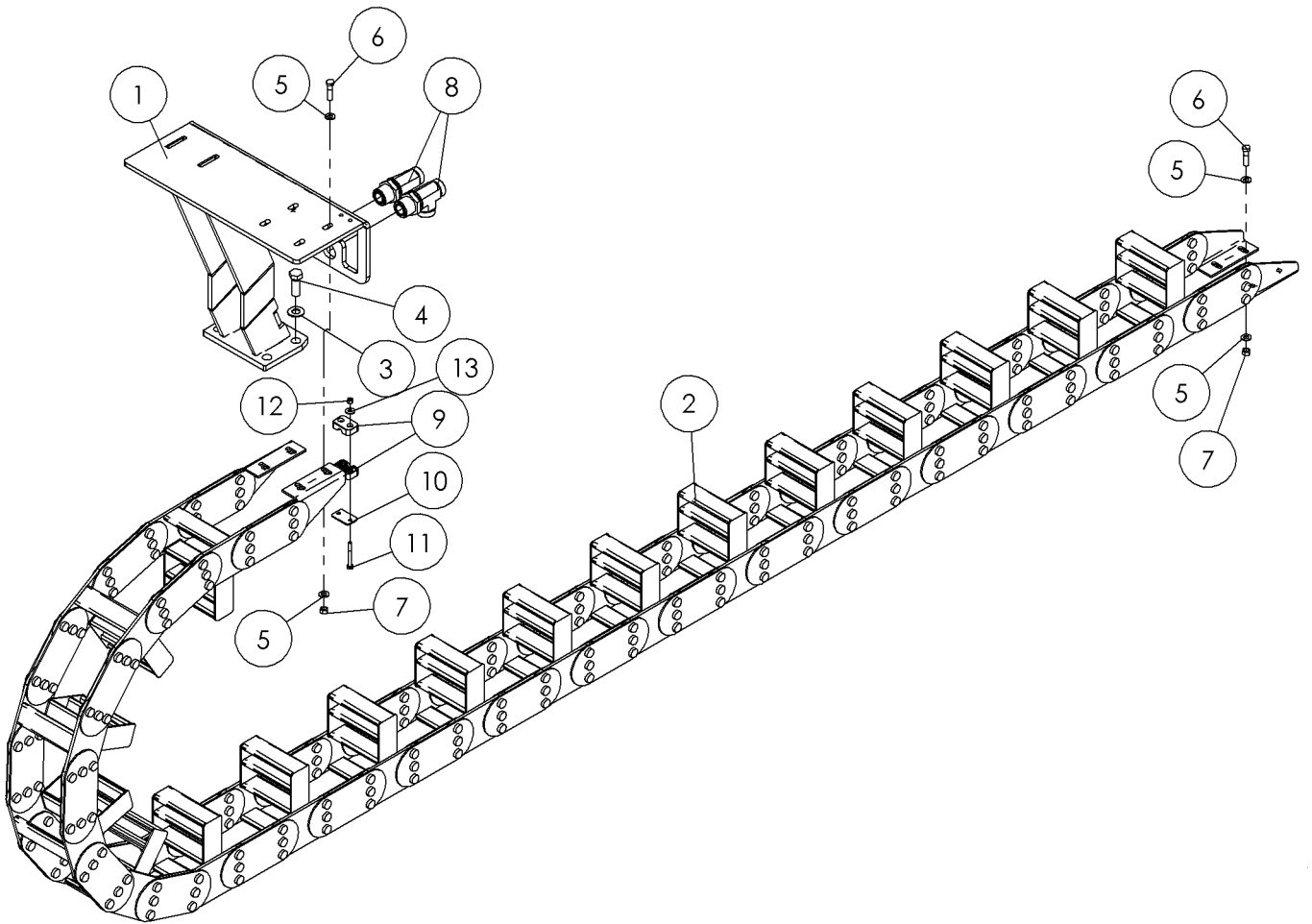
Valve - Three Speed Gearbox Fig 4-21



Valve - Three Speed Gearbox Fig 4-21

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296277839	VALVE - THREE SPEED SHUTTLE	1	Breakdown Fig. 11-1
2		72407001	FITTING-STR-16MORFF-16MORB	2	
3		278957001	FITTING-12MOR X 16MFFOR	2	
4		296280967	FITTING - STR 12MORB - 12FORB LONG	1	
5		72439001	FITTING - 90 - 12MORFF - 16MORBA	1	
6		53826001	FITTING-STR-8MJ-10MORB	2	
7		65565001	FITTING-6M O-RING X 6M JIC ST	2	
8		235714001	WASHER-5/16 SAE HARD ZINC PLTD	2	
9		72971001	FITTING-90-16MORFF-12MORBA	1	
10		296280435	PLATE-VALVE SPACER	1	
11		296284013	MOUNT - VALVE	1	
12		248069001	SCREW-HCS-.31-18X5.00-GR8-YZ	2	
13		296284012	BRACKET - VALVE MOUNT	2	
14		235723001	SCREW-HCS-.38-16 x 1.5 GR 8-YZ	4	
15		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	4	

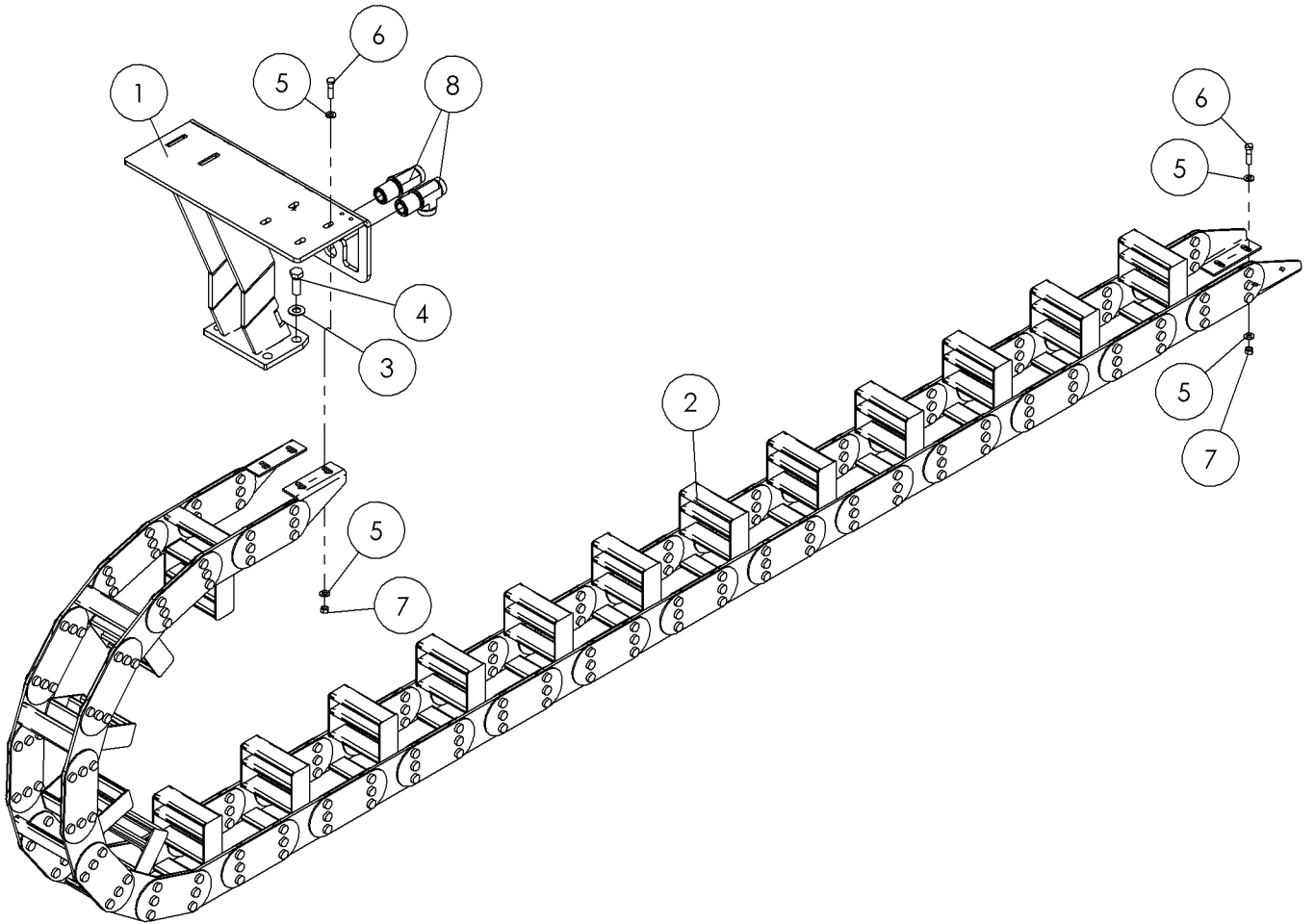
Hose Carrier & Tower Assy (15') Fig 4-22r01



Hose Carrier & Tower Assy (15') Fig 4-22r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296280985	TOWER - HOSE TRACK	1	
2		276280001	TRACK - HOSE CARRIER 15'	1	Breaddown Fig. 11-39
3		235715001	WASHER-5/8 SAE HARD ZINC PLTD	4	
4		230728001	BOLT-5/8-11X1 3/4GR 8 PLATED	4	
5		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	16	
6		235723001	SCREW - HCS -.38 - 16 X 1.50 - GR8 - YZ	8	
7		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	8	
8		296284064	FITTING-BHRTEE 16MORFF-16MORFF-16MORFF-L	2	
9		904738003	1/4 SINGLE HOSE CLAMP	2	
10		901678007	PLATE-COVER COP-3	1	
11		250644001	BOLT-1/4-20 X2 1/4 GR 8 Y/ZINC	2	
12		510313501	NUT-TLHEX-.25-20-A-YZ	2	
13		510337603	WASHER-FLATSTD-.25-.31X.75-.07-YZ	2	

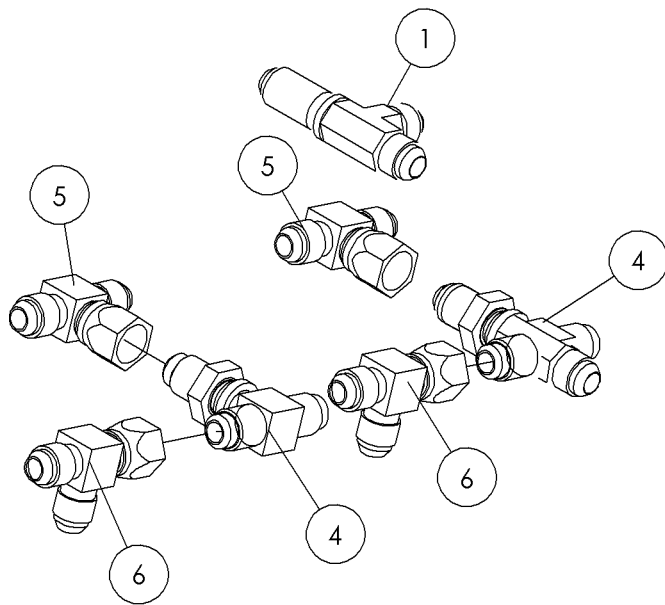
Hose Carrier & Tower Assy Fig 4-22



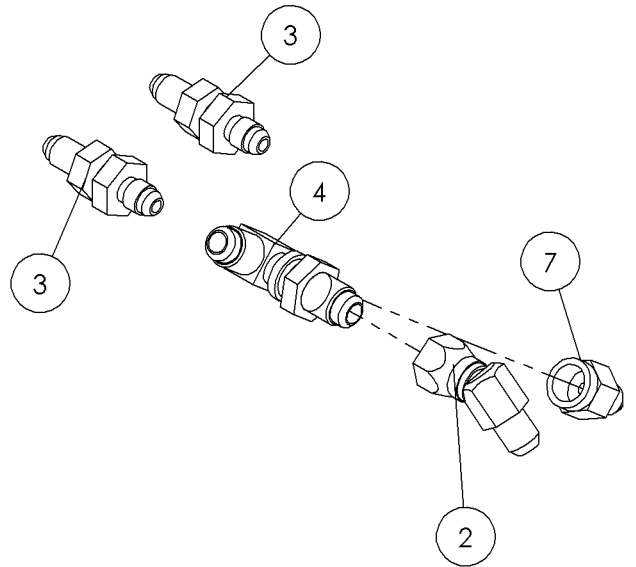
Hose Carrier & Tower Assy Fig 4-22

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280985	TOWER - HOSE TRACK	1	
2		276280001	TRACK-HOSE CARRIER 15'	1	Breakdown Fig. 11-39
3		235715001	WASHER-FLATSTRL-.63-.66X1.31-.09-YZ-A325	4	
4		230728001	SCREW-HCS-.63-11X1.75-GR8-YZ	4	
5		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	16	
6		235723001	SCREW-HCS-.38-16X1.50-GR8-YZ	8	
7		250508001	NUT-TLHEX-.38-16-C-YZ	8	
8		296284064	FITTING - BHRTEE - 16MORFF - 16MORFFBH-16MORFF - LN	2	

Carriage Bulkhead Fittings Fig 4-23r01



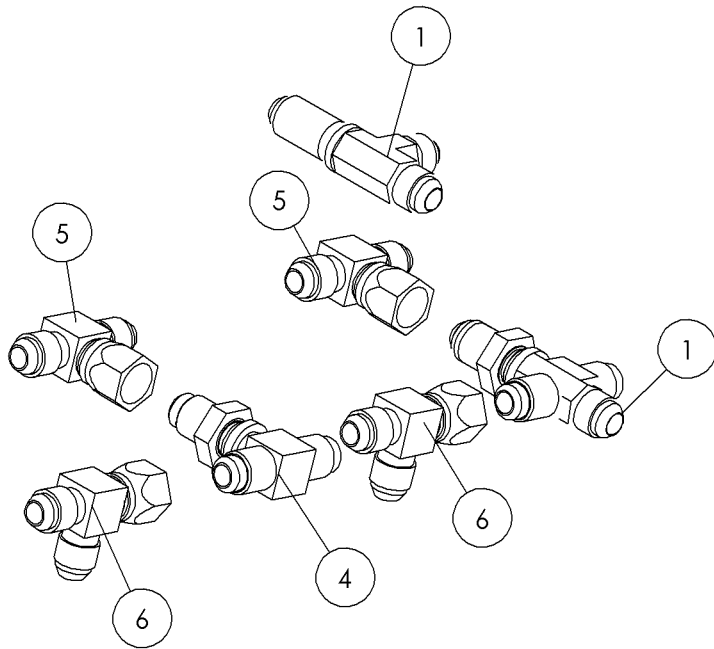
HYDRAULIC FITTINGS
MOUNTED ON BULKHEAD
ON UNDERCARRIAGE



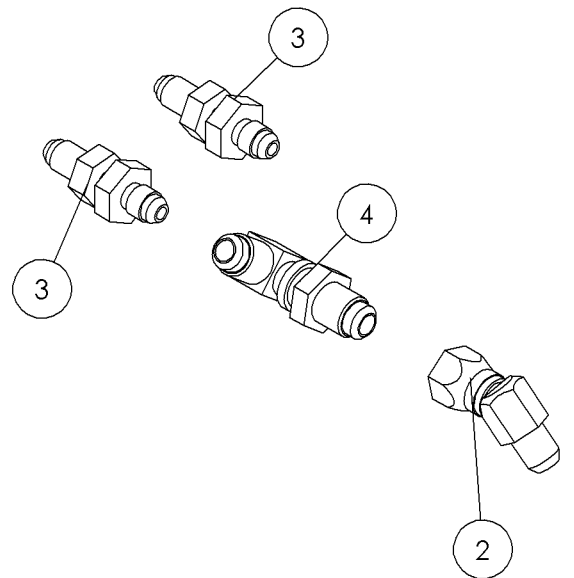
Carriage Bulkhead Fittings Fig 4-23r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		503342001	FITTING-BHRTEE-6MJ-6MJBH-6MJ	2	
2		59419001	6M JICX6FS JIC 45 DEG.ELBOW	1	
3		65564001	FITTING - 4M JIC BULKHEAD ST.	2	
4		60726001	6M JIC BULKHEAD TEE	3	
5		60852001	6M JICX6FS JIC SWIV.NUT B TEE	2	
6		59427001	TEE-6MJ-6FSJ-6MJ	2	
7		59928001	6F JICX4M JIC ST REDUCER	1	

Carriage Bulkhead Fittings Fig 4-23



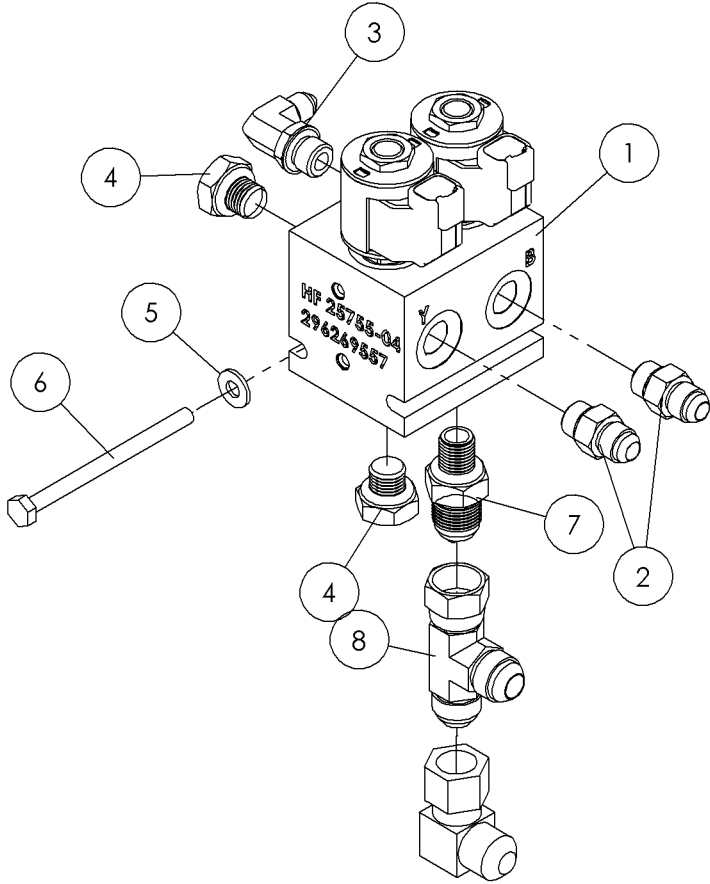
HYDRAULIC FITTINGS
MOUNTED ON BULKHEAD
ON UNDERCARRIAGE



Carriage Bulkhead Fittings Fig 4-23

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		503342001	FITTING-BHRTEE-6MJ-6MJBH-6MJ	2	
2		59419001	FITTING-45-6MJ-6FSJ	1	
3		65564001	FITTING-1/4 JIC BULKHEAD ST.	2	
4		60726001	BHTEE - 6M JIC	3	
5		60852001	FITTING-BTEE-6MJ-6MJ-6FSJ	2	
6		59427001	FITTING-RTEE-6MJ-6FSJ-6MJ	2	

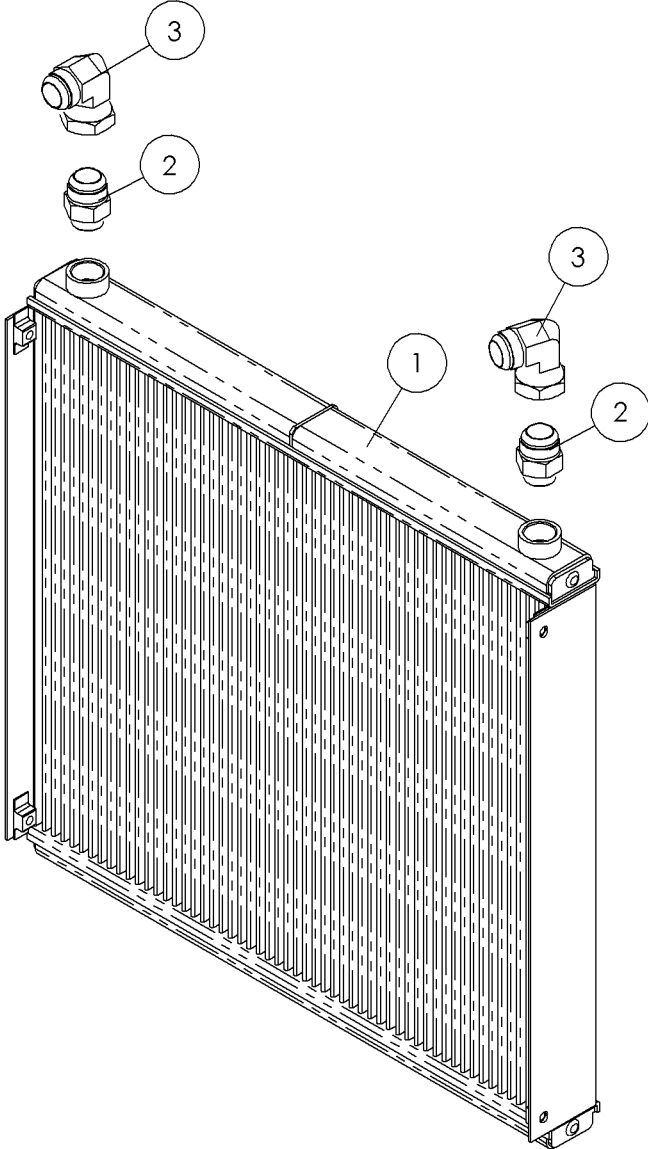
Valve - Thrust Fig 4-24



Valve - Thrust Fig 4-24

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296269557	VALVE- TWO SPEED W/BRAKE	1	Breakdown Fig. 11-58
2		65565001	FITTING - 6M O-RING X 6M JIC ST.	2	
3		57950001	FITTING-90-4MJ-6MORBA	1	
4		5553001	FITTING - PLUG - 6MORB - HEX	2	
5		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	2	
6		244204001	BOLT-1/4-20X3 1/2 GR8 ZNC PLTD	2	
7		86235001	6M ORING X 8M JIC STR.	1	
8		59461001	8 JIC SW RUN TEE	1	
9		59405001	8M JICX8FS JIC 90 DEG.ELBOW	1	

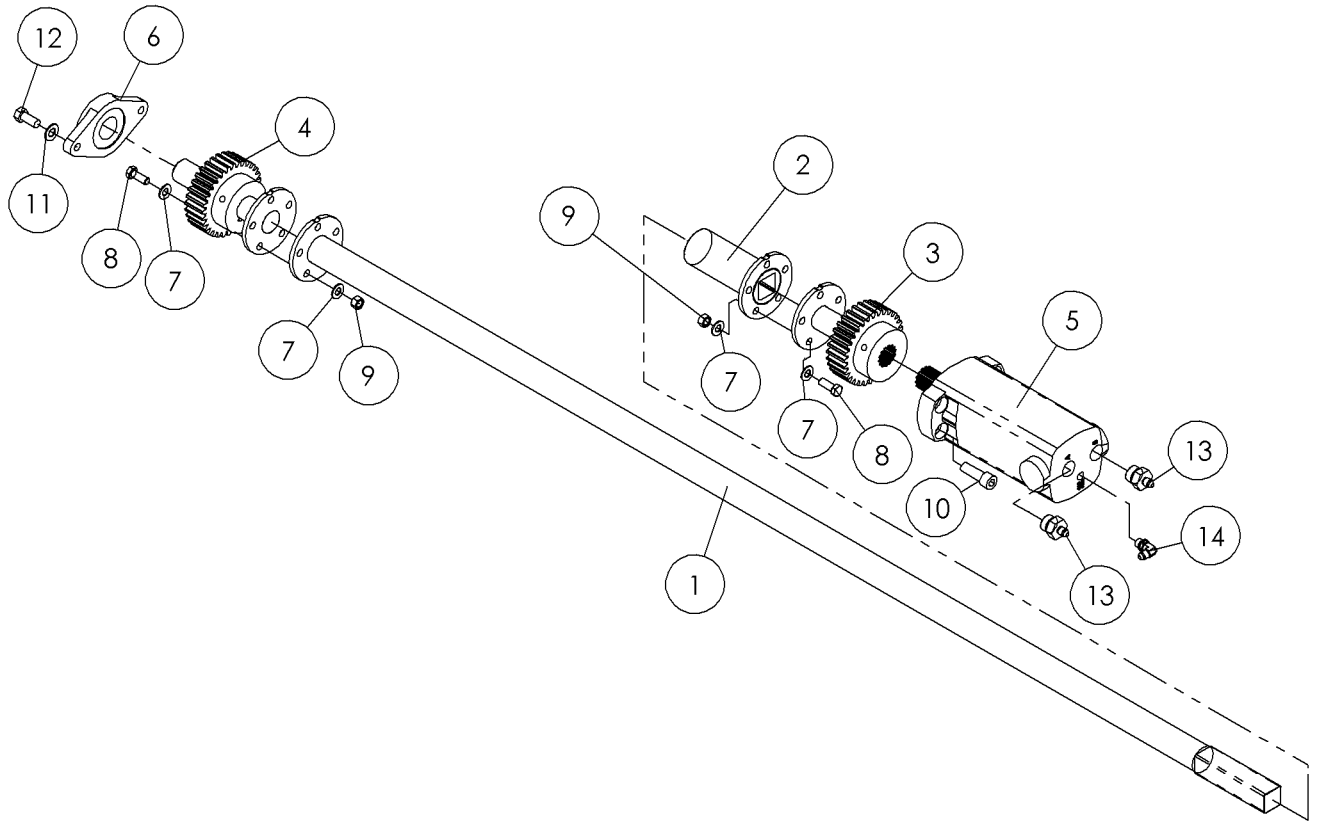
Oil Cooler Fig 4-25



Oil Cooler Fig 4-25

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279964	COOLER - OIL	1	
2		86320001	FIT-ADAPT 16M ORINGX20MJIC STR	2	
3		65574001	20FS JICX20M JIC 90 DEGREE	2	

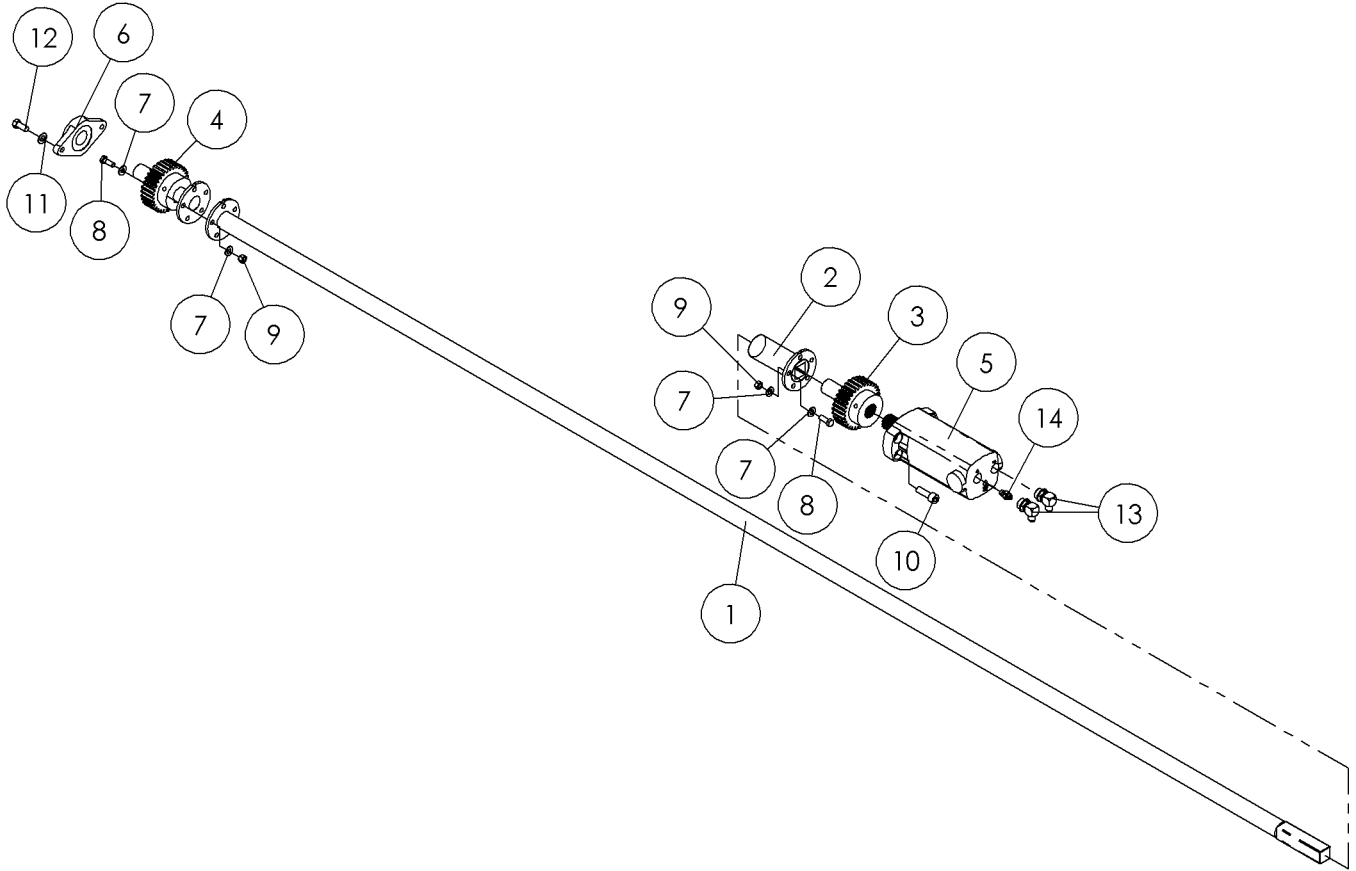
Motor - 10' Rod Loader Fig 4-26



Motor - 10' Rod Loader Fig 4-26

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296277005	WELDMENT - SYNCHRO TUBE	1	
2		296280118	WELDMENT - SYNCHRO TUBE MOUNT	1	
3		296275143	WELDMENT - FRONT ROD LOADER GEAR	1	
4		296277008	WELDMENT - REAR ROD LOADER GEAR	1	
5		296275142	MOTOR- HYD 2000 SPLINE	1	Breakdown Fig. 11-27
6		246416001	BEARING- 2 BOLT FLANGE	1	
7		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	20	
8		235727001	BOLT - 3/8-16x1 GR.8 HEX	10	
9		250508001	NUT-TLHEX-.38-16-C-YZ	10	
10		276402001	SCREW-1/2-13X1 1/2 SHC Y ZINC	4	
11		250515001	7/16 HARD WASHER SAE Y/ZINC	2	
12		250539001	BOLT-7/16-14 X 1 GR8 HEX Y/ZI	2	
13		101507001	FITTING-10MORX4MJIC STR.	2	
14		59423001	FITTING-90-4MJ-4MORBA	1	

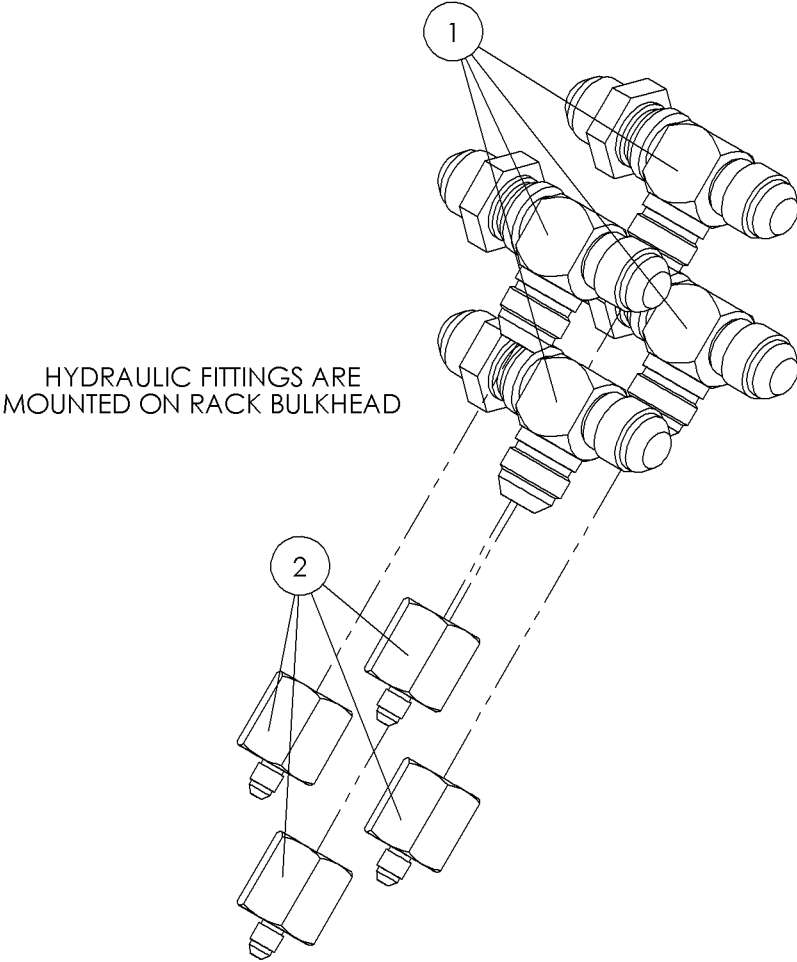
Motor - 15' Rod Loader Fig 4-27



Motor - 15' Rod Loader Fig 4-27

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280165	WELDMENT - SYNCHRO TUBE	1	
2		296280118	WELDMENT - SYNCHRO TUBE MOUNT	1	
3		296275143	WELDMENT - FRONT ROD LOADER GEAR	1	
4		296277008	WELDMENT - REAR ROD LOADER GEAR	1	
5		296275142	MOTOR - HYD 2000 SPLINE	1	Breakdown Fig. 11-27
6		246416001	BEARING- 2 BOLT FLANGE	1	
7		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	20	
8		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	10	
9		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	10	
10		276402001	SCREW-1/2-13X1 1/2 SHC Y ZINC	4	
11		250515001	7/16 HARD WASHER SAE Y/ZINC	2	
12		250539001	BOLT-7/16-14 X 1 GR8 HEX Y/ZI	2	
13		59401001	6M JICX10M ADJ. 90 DEG.ELBOW FITTING	2	
14		60908001	FITTING-4MX4M JIC STR ADAPTER	1	

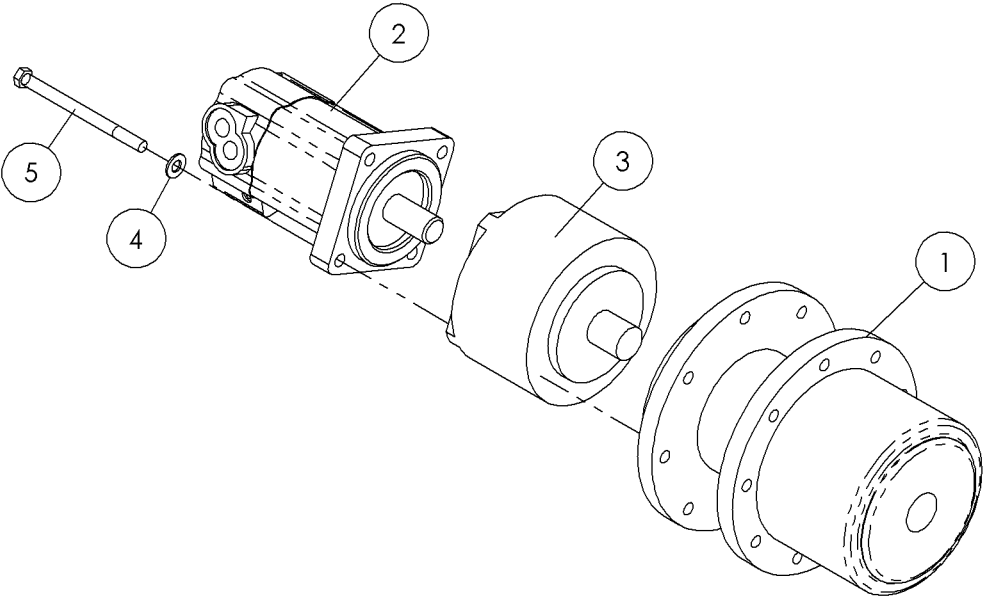
Rack Bulkhead Fittings Fig 4-28



Rack Bulkhead Fittings Fig 4-28

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		96075001	FITTING-12MJIC BLKHD RUN TEE	4	
2		81345001	FITTING-12F JICX4M JIC STR.	4	

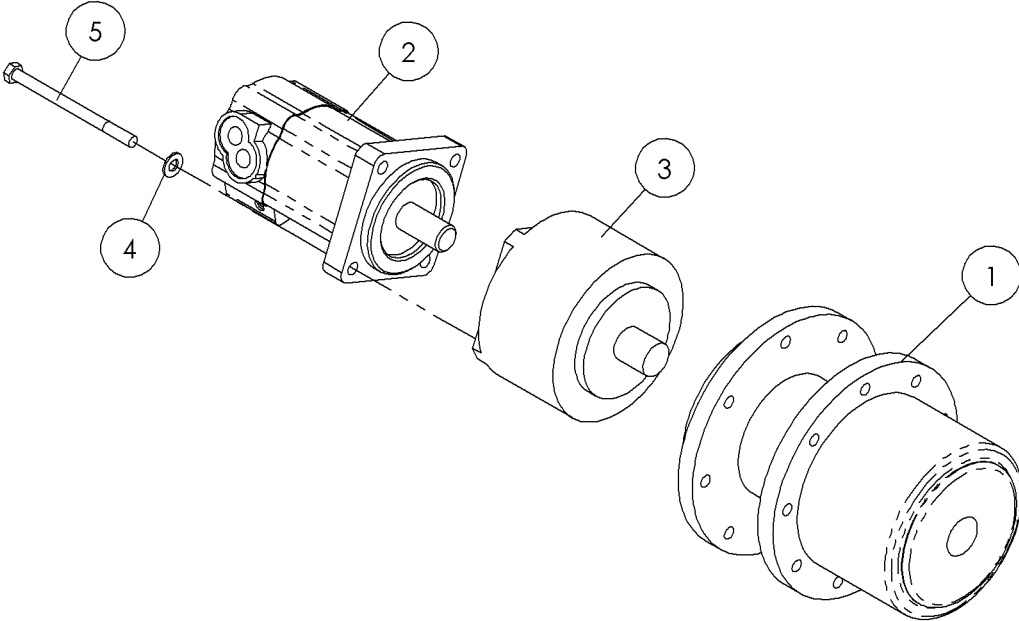
Planetary - Left Fig 4-29



Planetary - Left Fig 4-29

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		244405001	GEARBOX - PLANETARY 7WC14150ZX	1	Breakdown Fig. 11-31
2		251105001	MOTOR-7.9 CID 4000 SERIES HYD.	1	Breakdown Fig. 11-33
3		278785001	BRAKE-TRACK DRIVE PARK	1	Breakdown Fig. 11-32
4		485025	WASHER-1/2 FLAT-HARDENED-YZ	4	
5		251046001	BOLT-1/2-13X6 3/4 GR8 HEX ZINC	4	

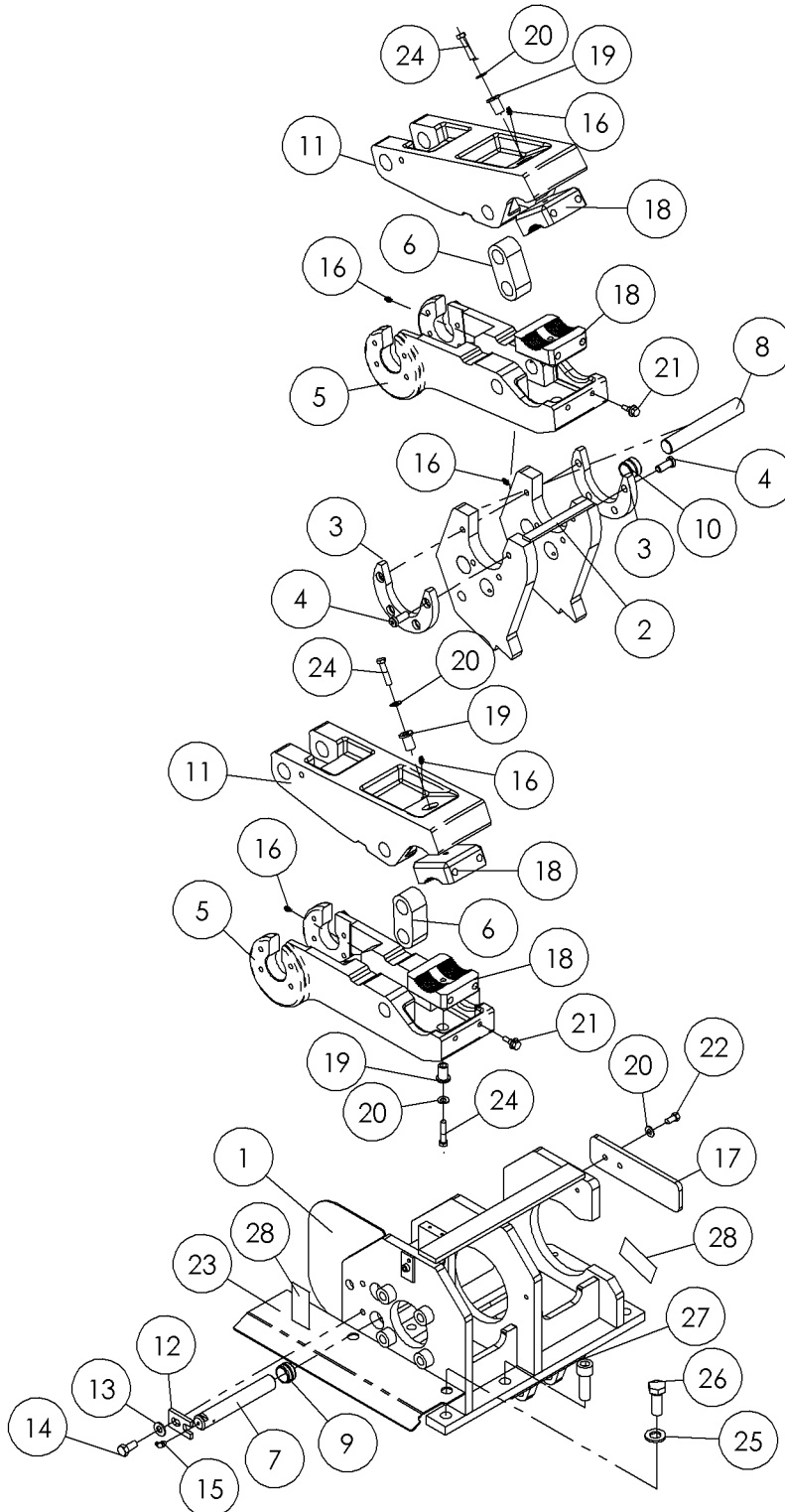
Planetary - Right Fig 4-30



Planetary - Right Fig 4-30

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		244405001	GEARBOX - PLANETARY 7WC14150ZX	1	Breakdown Fig. 11-31
2		251105001	MOTOR-7.9 CID 4000 SERICES HYD.	1	Breakdown Fig. 11-33
3		278785001	BRAKE - TRACK DRIVE PARK	1	Breakdown Fig. 11-32
4		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	4	
5		251046001	SCREW-HCS-.50-13X6.75-GR8-YZ	4	

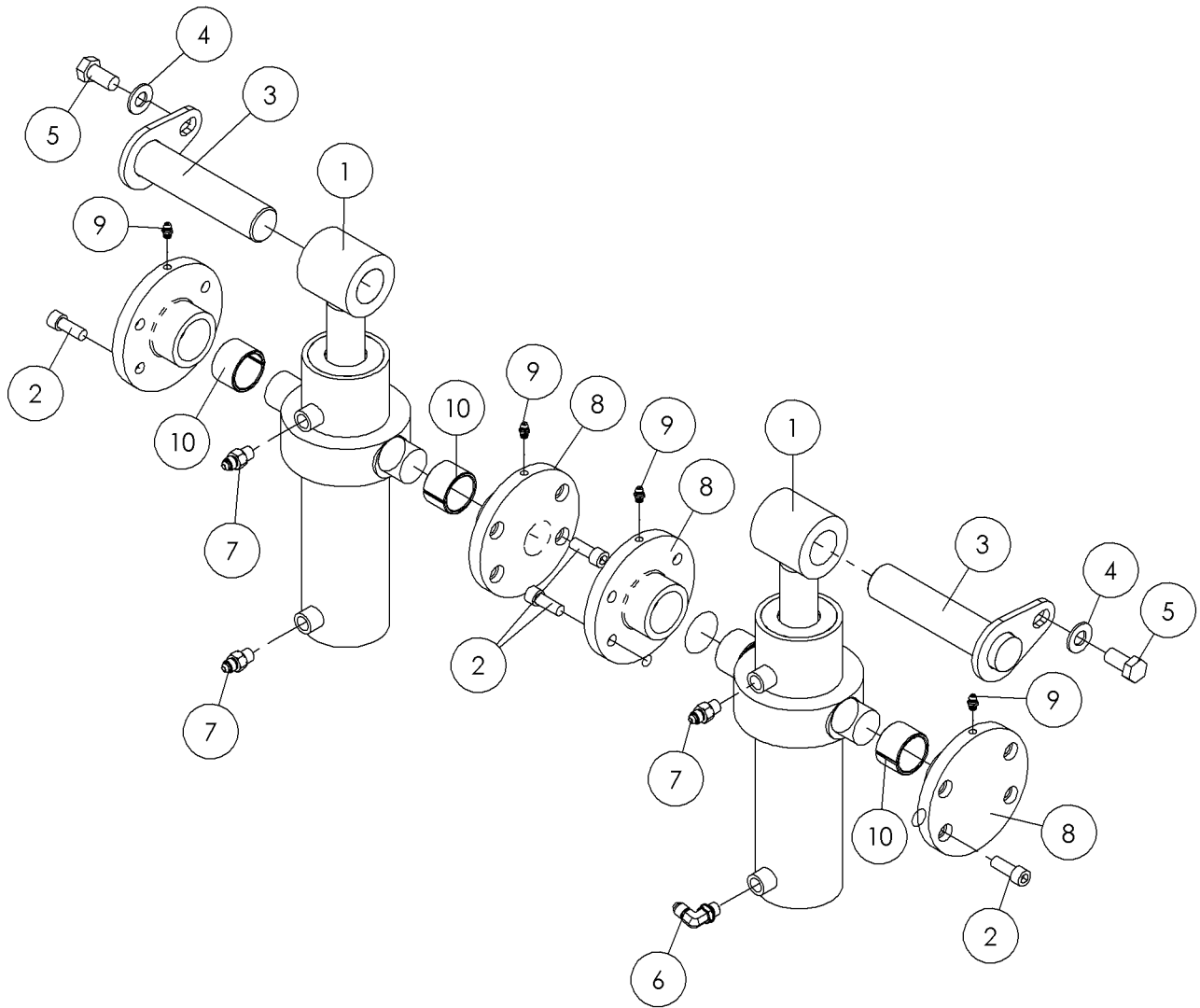
Vise Clamp Fig 5-1



Vise Clamp Fig 5-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		243025001	FRAME-VISE	1	
2		240885001	PIVOT VISE - DUPLICATE FIXTURE	1	
3		240908001	PLATE-INSERT	2	
4		240854001	SCREW-1/2-13 UNCX1 1/4 LOW SH	8	
5		282810001	WISE - LOWER ARM	2	
6		240917001	PLATE-LINK	2	
7		240909001	PIN-VISE	2	
8		240918001	PIN-PIVOT	2	
9		240878001	BSHG-STL 1 3/8 ODX1 1/8 ID-.75	4	
10		240877001	BSHG-STL 1 3/8 ODX1 1/8 ID-1.0	4	
11		282811001	ARM - JAW UPPER VISE	2	
12		235929001	PLATE-TAB	2	
13		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
14		235729001	SCREW-HCS-.50-13X1.00-GR8-YZ	2	
15		597001	ZERK-1/4" NF 90 DEG GREASE	2	
16		598001	FITTING-1/4" NF ST GREASE ZERK	12	
17		291534001	BAR - ROD GUARD	1	
18		276415001	DIE - JAW 2 3/4 OD	4	
19		228064001	INSERT-FASTENER	4	
20		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	6	
21		249161001	BOLT-JAW PIN 3/8-16 X 1 SPEC	4	
22		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	2	
23		291538001	PLATE-FRONT VICE	1	
24		235720001	BOLT-3/8-16X1 3/4 6R8 ZINC PLT	4	
25		235717001	WASHER - 3/4" HARDENED FLAT YZ	4	
26		235746001	BOLT-3/4-10X2 GR8 HEX ZNC PLTD	4	
27		249153001	SCREW-3/4-10X2 1/4 GR8 Y/ZINC	1	
28		7000A864	DECAL-WARNING DOMESTIC	2	Domestic
		700IA864	DECAL-WARNING INTERNATIONAL	2	International

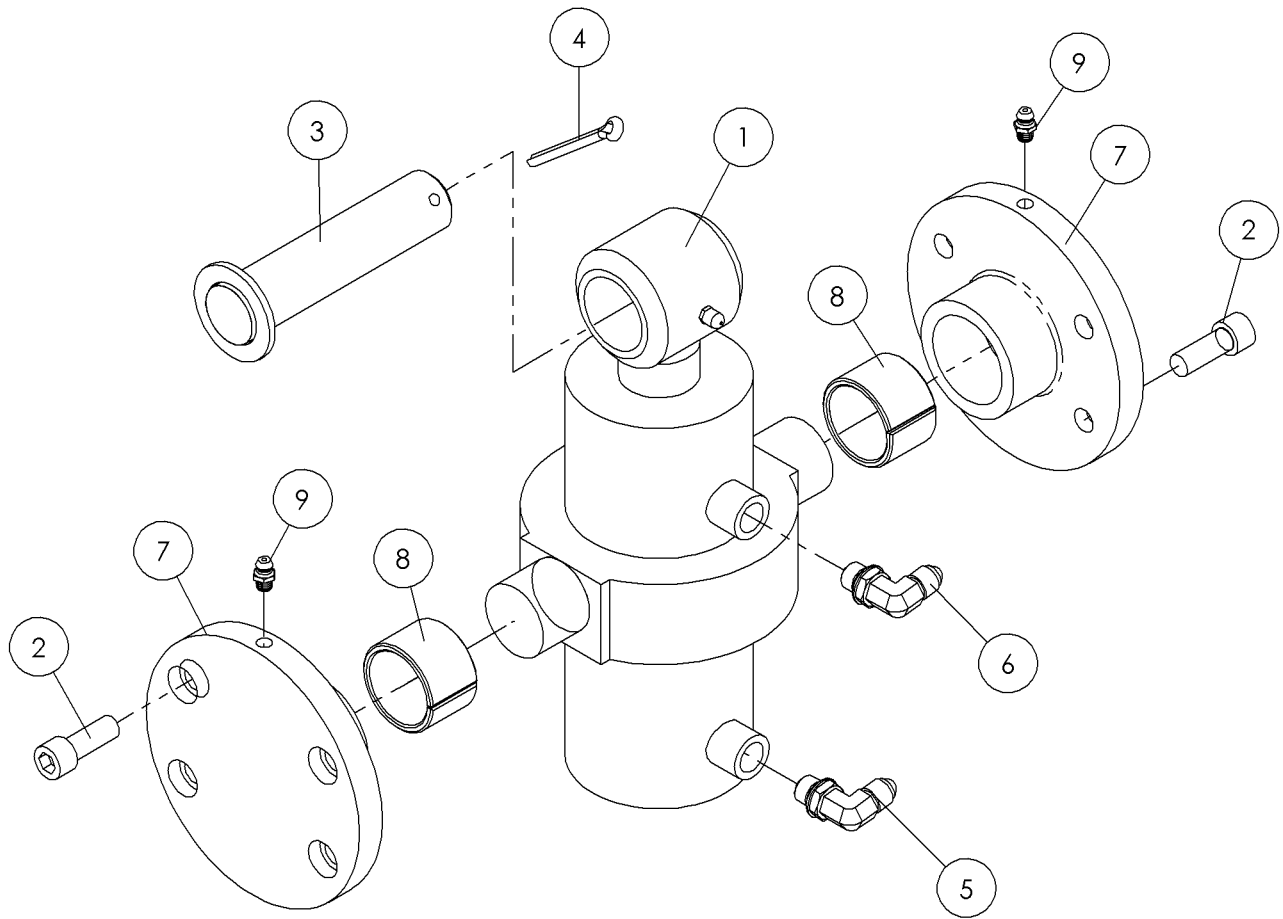
Cylinder - Jaw Fig 5-2



Cylinder - Jaw Fig 5-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		287590001	CYLINDER-2 1/2 X 6 5/8	2	Breakdown Fig. 11-18
2		601696010	SCREW-SHCS-.38-16X1.00-GR8-CZ	16	
3		228058001	PIN-CLAMP	2	
4		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	2	
5		235729001	SCREW-HCS-.50-13X1.00-GR8-YZ	2	
6		59423001	FITTING-90-4MJ-4MORBA	1	
7		67849001	1/4 M x 4 M JIC ST	3	
8		240888001	BOSS-TRUNION	4	
9		598001	FITTING-1/4" NF ST GREASE ZERK	4	
10		1835025	BSHG-STL.-1 1/2X1 1/4 X 1	4	

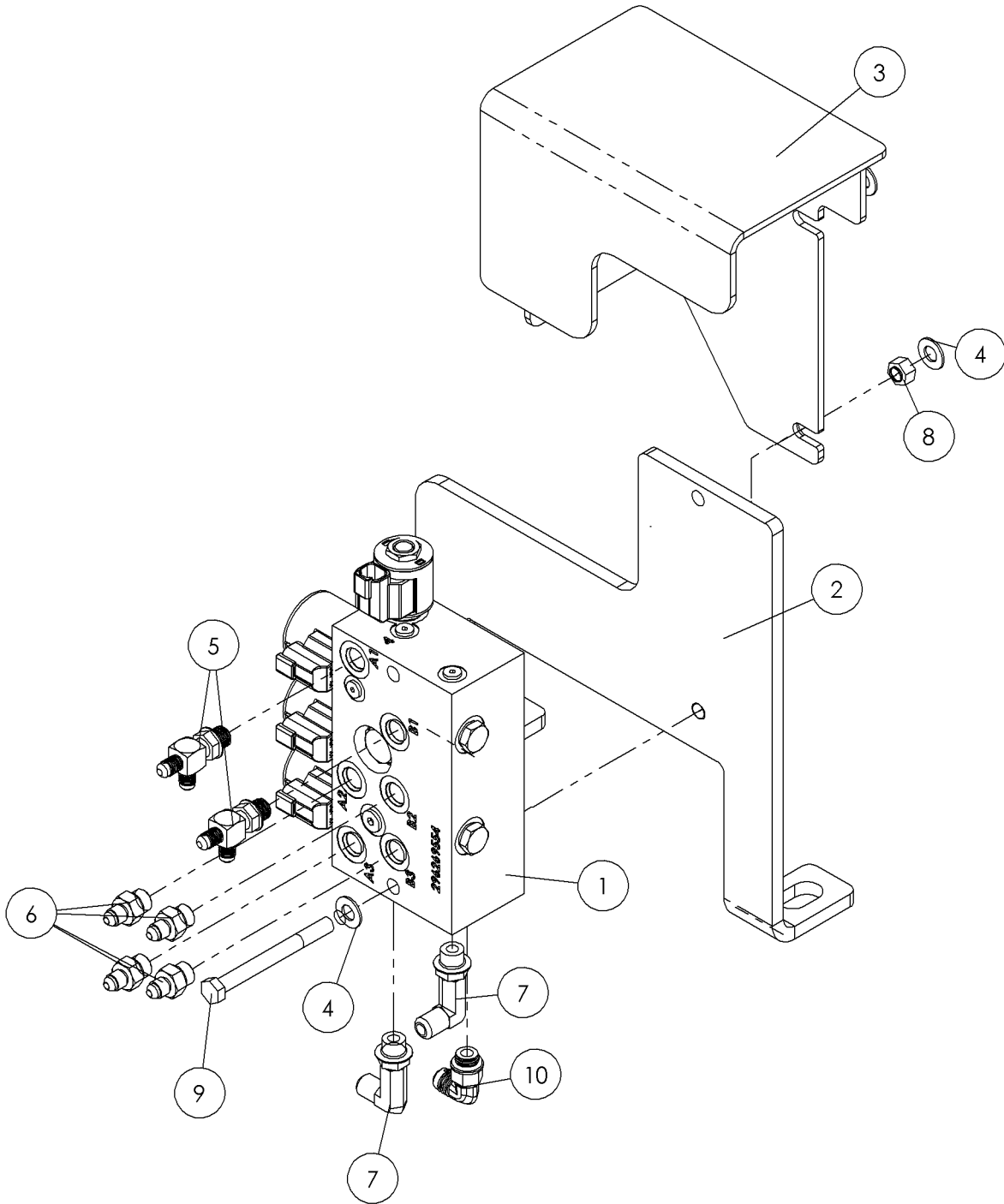
Cylinder - Rotation Fig 5-3



Cylinder - Rotation Fig 5-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		276260001	CYLINDER 2 1/2 X 3 3000 PSI	1	Breakdown Fig. 11-21
2		601696010	SCREW-SHCS-.38-16X1.00-GR8-CZ	8	
3		228061001	PIN-TILT	1	
4		510025	COTTER PIN - .188 x 2.000	1	
5		59423001	FITTING-90-4MJ-4MORBA	1	
6		279290001	FITTING-90-4MJ-4MORBA-R.060	1	
7		240888001	BOSS-TRUNION	2	
8		1835025	BSHG-STL.-1 1/2X1 1/4 X 1	2	
9		598001	FITTING-1/4" NF ST GREASE ZERK	2	

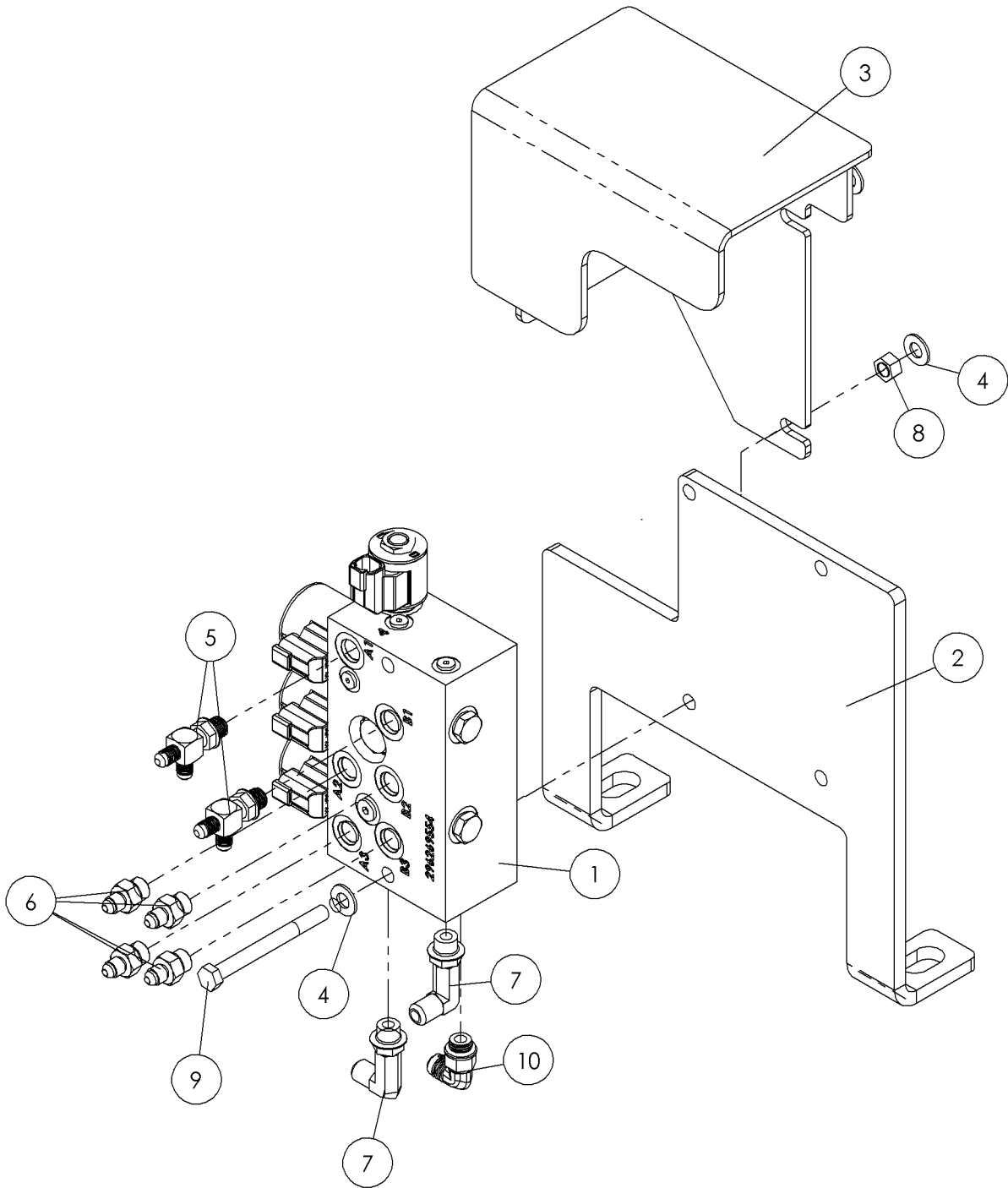
Valve - Vise Clamp Fig 5-4r02



Valve - Vise Clamp Fig 5-4r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296269554	VALVE-VISE	1	Breakdown Fig. 11-10
2		296277068	PLATE - VICE VALVE MOUNT	1	
3		296280084	WELDMENT - VICE VALVE COVER	1	
4		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	4	
5		82930001	FIT-6MX4M JICX4M JIC (BCH) TEE	2	
6		57968001	FITTING-STR-4MJ-6MORB	4	
7		65570001	FITTING - 6MB - 6MJ 90 L	2	
8		250508001	NUT-TLHEX-.38-16-C-YZ	2	
9		250583001	SCREW-HCS-.38-16X3.75-GR8-YZ	2	
10		59426001	FITTING - 90-6MJ-6MORBA	1	

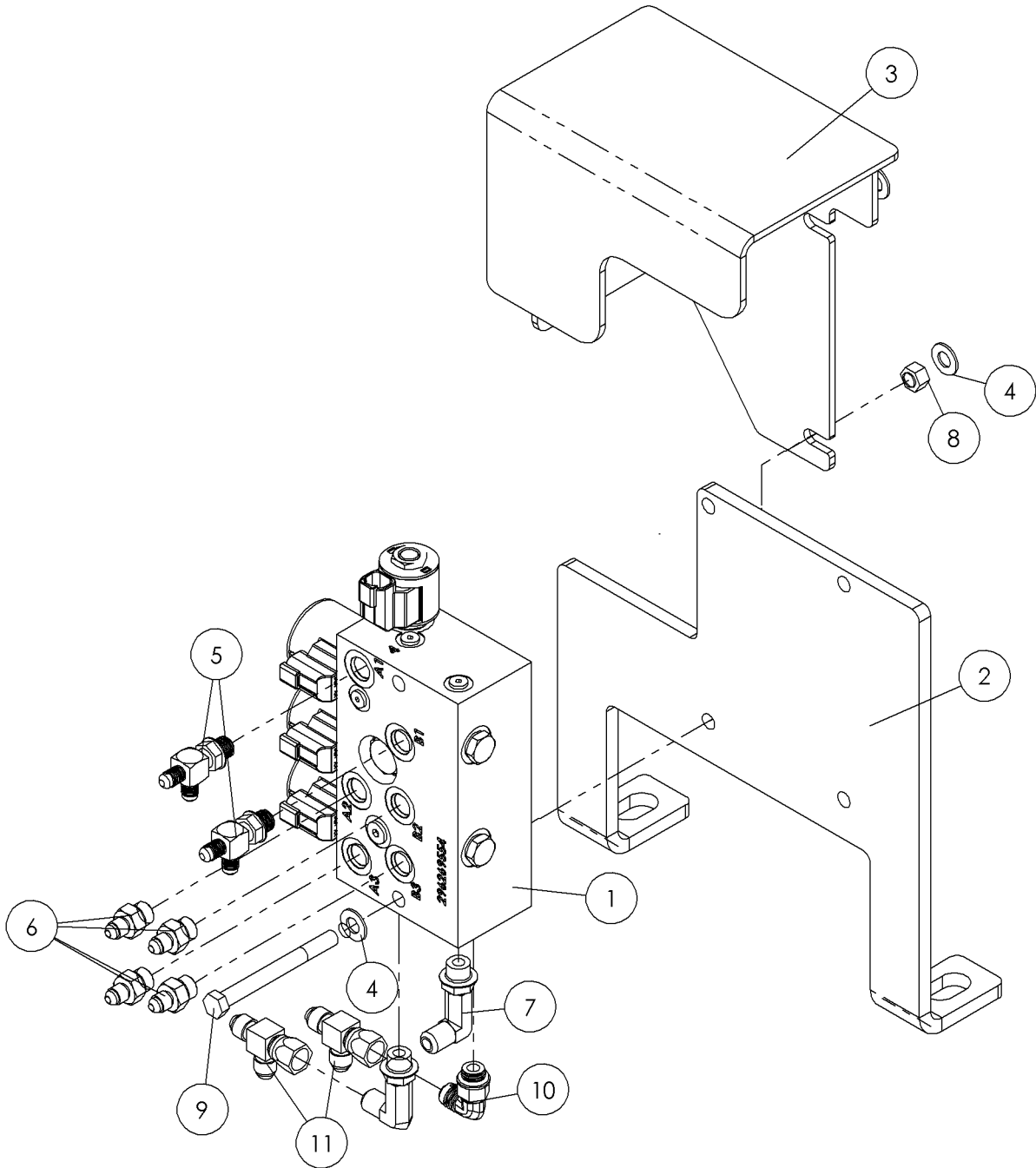
Valve - Vise Clamp Fig 5-4r01



Valve - Vise Clamp Fig 5-4r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296269554	WISE - MANIFOLD	1	Breakdown Fig. 11-10
2		296280916	ANGLE - WISE VALVE MOUNT	1	
3		296280084	WELDMENT-WISE VALVE COVER	1	
4		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
5		82930001	FIT-6MX4M JICX4M JIC (RUN) TEE	2	
6		57968001	FITTING-STR-4MJ-6MORB	4	
7		65570001	6M X 6M JIC 90 DEGREE LONG	2	
8		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	2	
9		250583001	3/8-16X3 3/4 GR8 HEX BOLT PLTD	2	
10		59426001	FITTING - 90-6MJ-6MORBA	1	

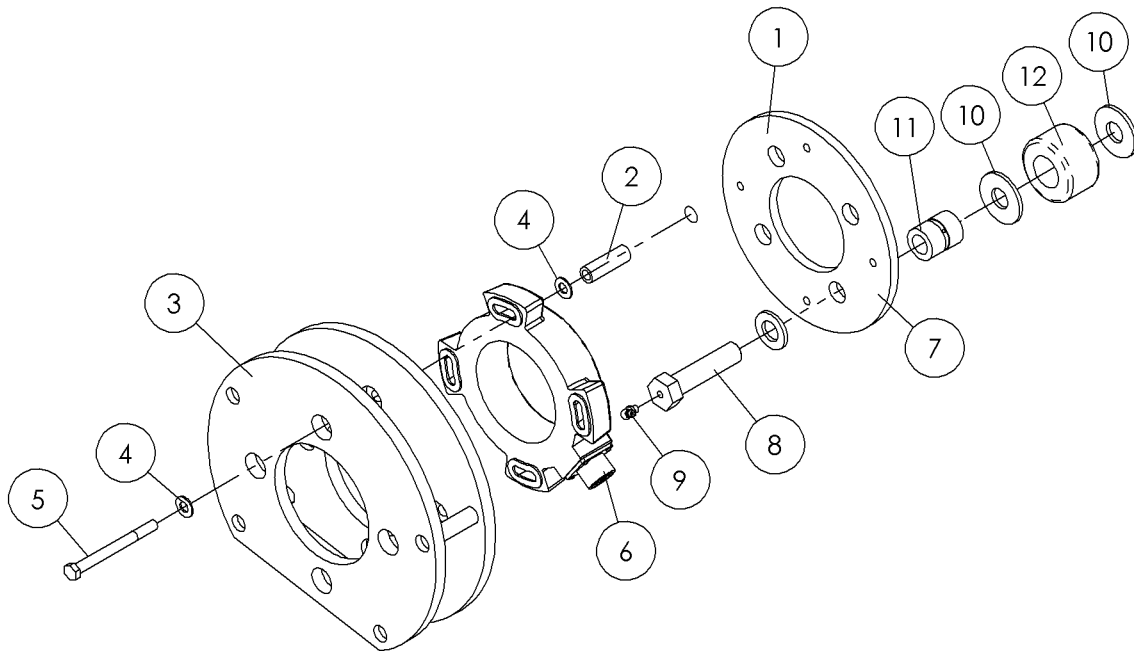
Valve - Vise Clamp Fig 5-4



Valve - Vise Clamp Fig 5-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296269554	VALVE-VISE	1	Breakdown Fig. 11-10
2		296280916	ANGLE - VISE VALVE MOUNT	1	
3		296280084	WELDMENT - VICE VALVE COVER	1	
4		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	4	
5		82930001	FIT-6MX4M JICX4M JIC (BCH) TEE	2	
6		57968001	FITTING-STR-4MJ-6MORB	4	
7		65570001	FITTING - 6MB - 6MJ 90 L	2	
8		250508001	NUT-TLHEX-.38-16-C-YZ	2	
9		250583001	SCREW-HCS-.38-16X3.75-GR8-YZ	2	
10		59426001	FITTING - 90-6MJ-6MORBA	1	
11		59427001	FITTING-RTEE-6MJ-6FSJ-6MJ	2	

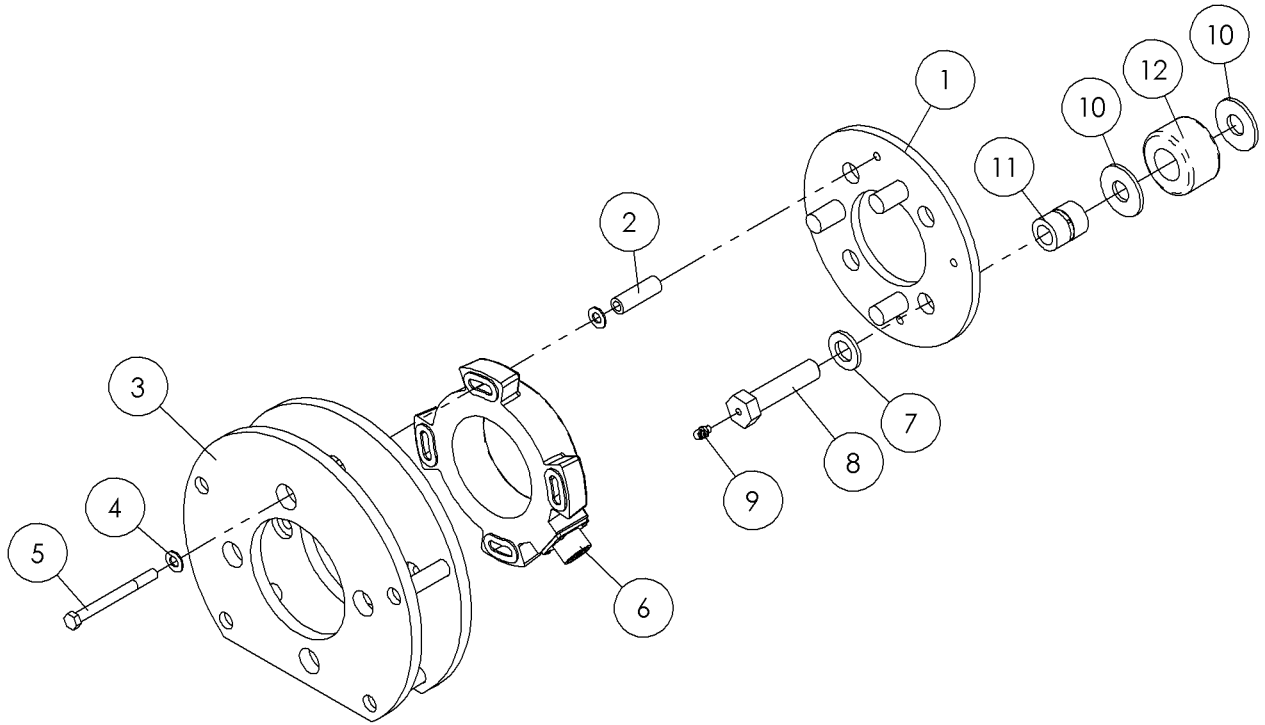
Strike Alert Fig 5-5r01



Strike Alert Fig 5-5r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		228049001	PLATE-ROLLER SUPPORT	1	
2		296280269	TUBE-5/8 ODX11GA.-1 15/16"	4	
3		235313001	HOLDER-ROD WIPER	1	
4		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	8	
5		250541001	BOLT-3/8-16 X 4" GR8 HEX Y/ZI	4	
6		296272742	STRIKE ALERT - 4" COIL ASSEMBLY	1	
7		235717001	WASHER - 3/4" HARDENED FLAT YZ	4	
8		235915001	BOLT-GREASABLE ROLLER 26184	4	
9		597001	ZERK-1/4" NF 90 DEG GREASE ZYC	4	
10		485017	WASHER-3/4 FLAT REF T10967	8	
11		244678001	BUSHING GUIDE ROLLER	4	
12		244679001	ROLLER-GUIDE	4	

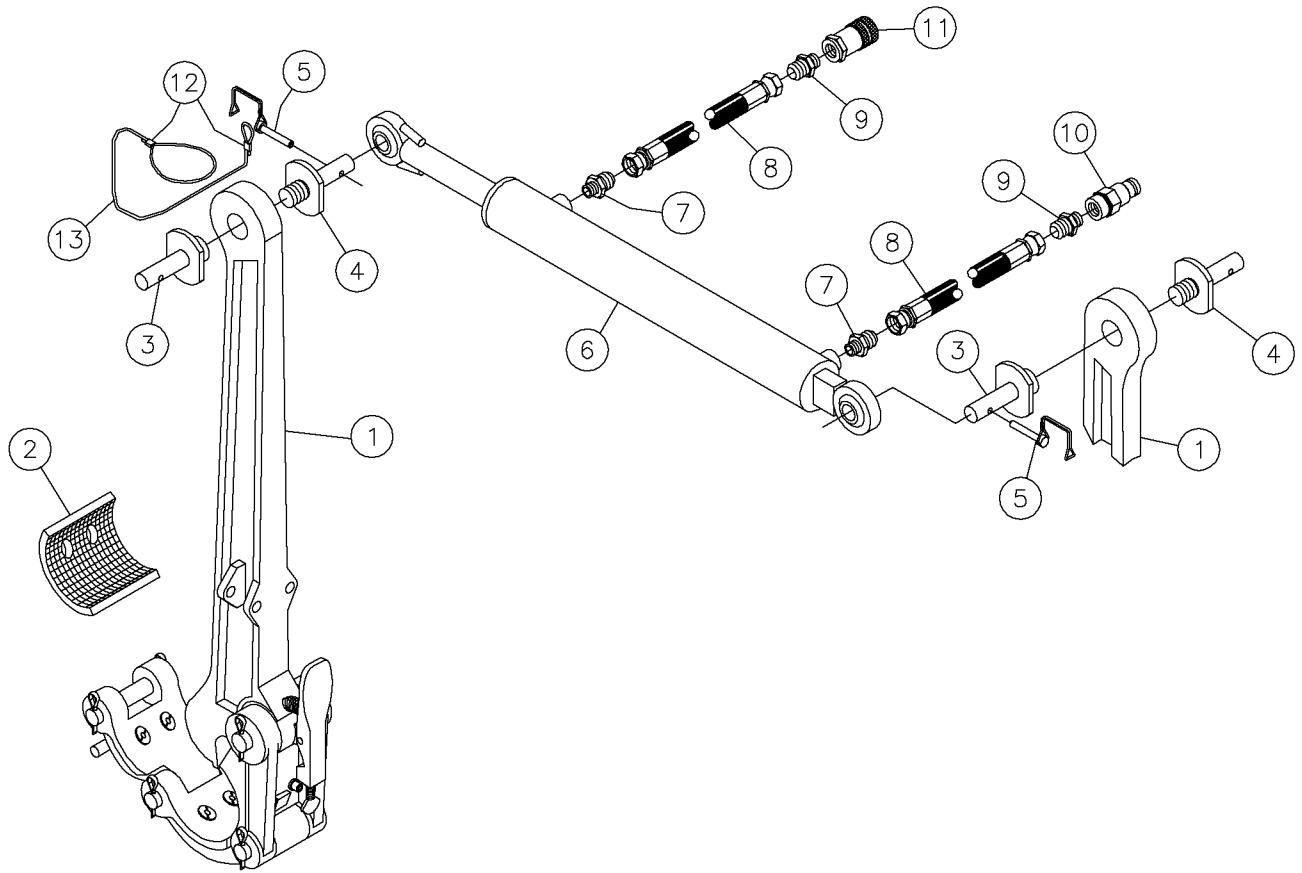
Strike Alert Fig 5-5



Strike Alert Fig 5-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		228051001	SUPPORT-ROLLER	1	
2		296280269	TUBE-5/8 ODX11GA.-1 15/16"	4	
3		235313001	HOLDER-ROD WIPER	1	
4		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	8	
5		250541001	BOLT-3/8-16 X 4" GR8 HEX Y/ZI	4	
6		296272742	STRIKE ALERT - 4" COIL ASSEMBLY	1	
7		235717001	WASHER - 3/4" HARDENED FLAT YZ	4	
8		235915001	BOLT-GREASABLE ROLLER 26184	4	
9		597001	ZERK-1/4" NF 90 DEG GREASE	4	
10		485017	WASHER-3/4 FLAT	8	
11		244678001	BUSHING GUIDE ROLLER	4	
12		244679001	ROLLER-GUIDE	4	

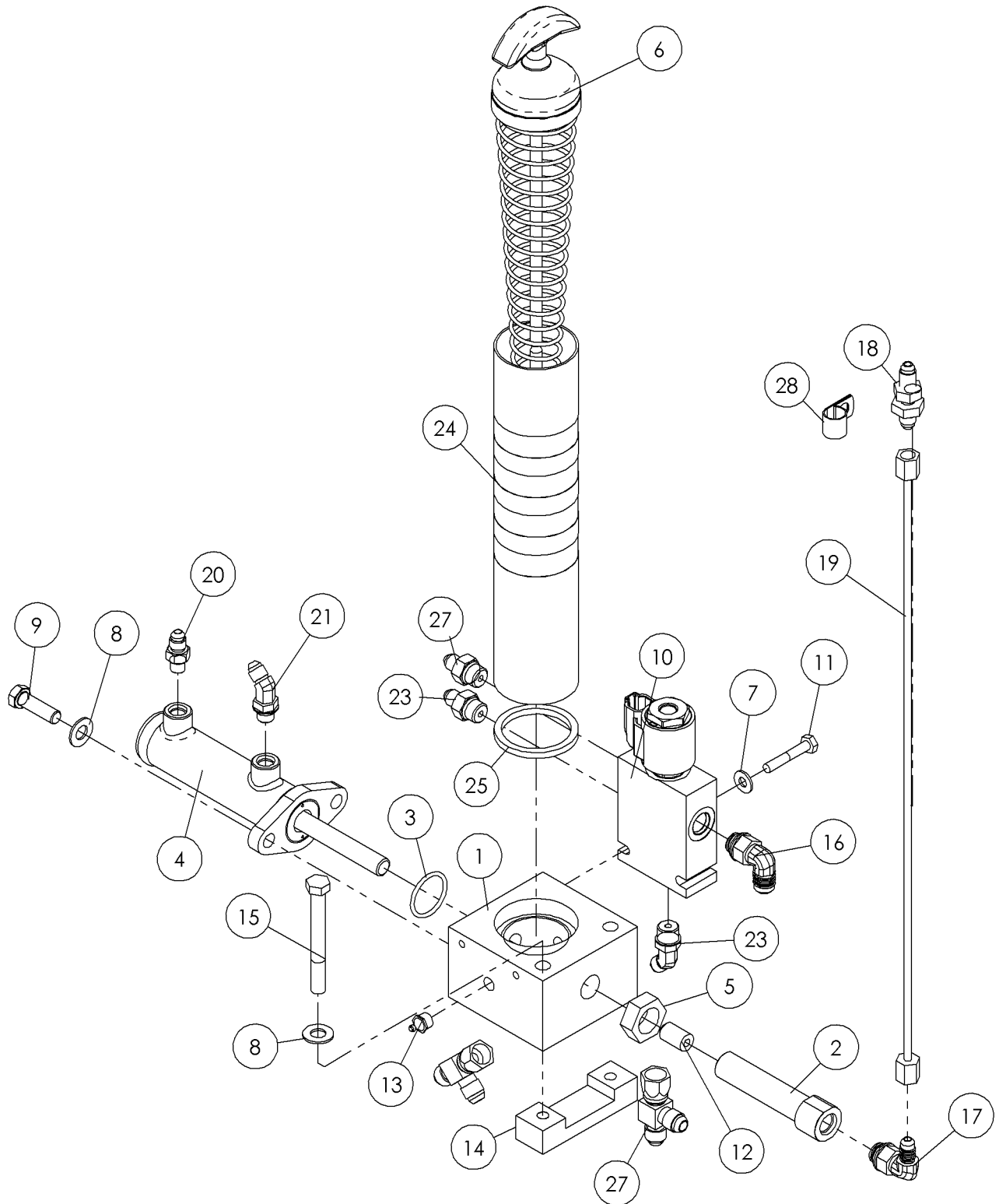
Tubing Tong Fig 5-6



Tubing Tong Fig 5-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		230970001	TONG-K30 LIGHT WEIGHT TUBING	2	Breakdown Fig. 11-54
2		291546001	K-30 2-3/4" DIE SET (3/SET)	1	
3		234967001	PIN-FEMALE CYLINDER	2	
4		234966001	PIN-MALE CYLINDER	2	
5		2108001	LYNCH PIN - 1/4 X 2	2	
6		230977001	CYLINDER 2"X15 XCX	1	Breakdown Fig. 11-23
7		86235001	6M ORING X 8M JIC STR.	2	
8		53844167	HOSE-1/2X240 8FS JIC 3000 PSI	2	
9		68634001	FITTING-3/8MX8M JIC (STR)	2	
10		221503001	COUPLER-3/8 NPT QUICK (MALE)	1	
11		221504001	COUPLER-3/8 NPT QUICK (FEM)	1	
12		1838001	CONNECTOR-WIRE (ETC)	4	
13		240546001	CABLE-3/32 NYLON-18.00	2	

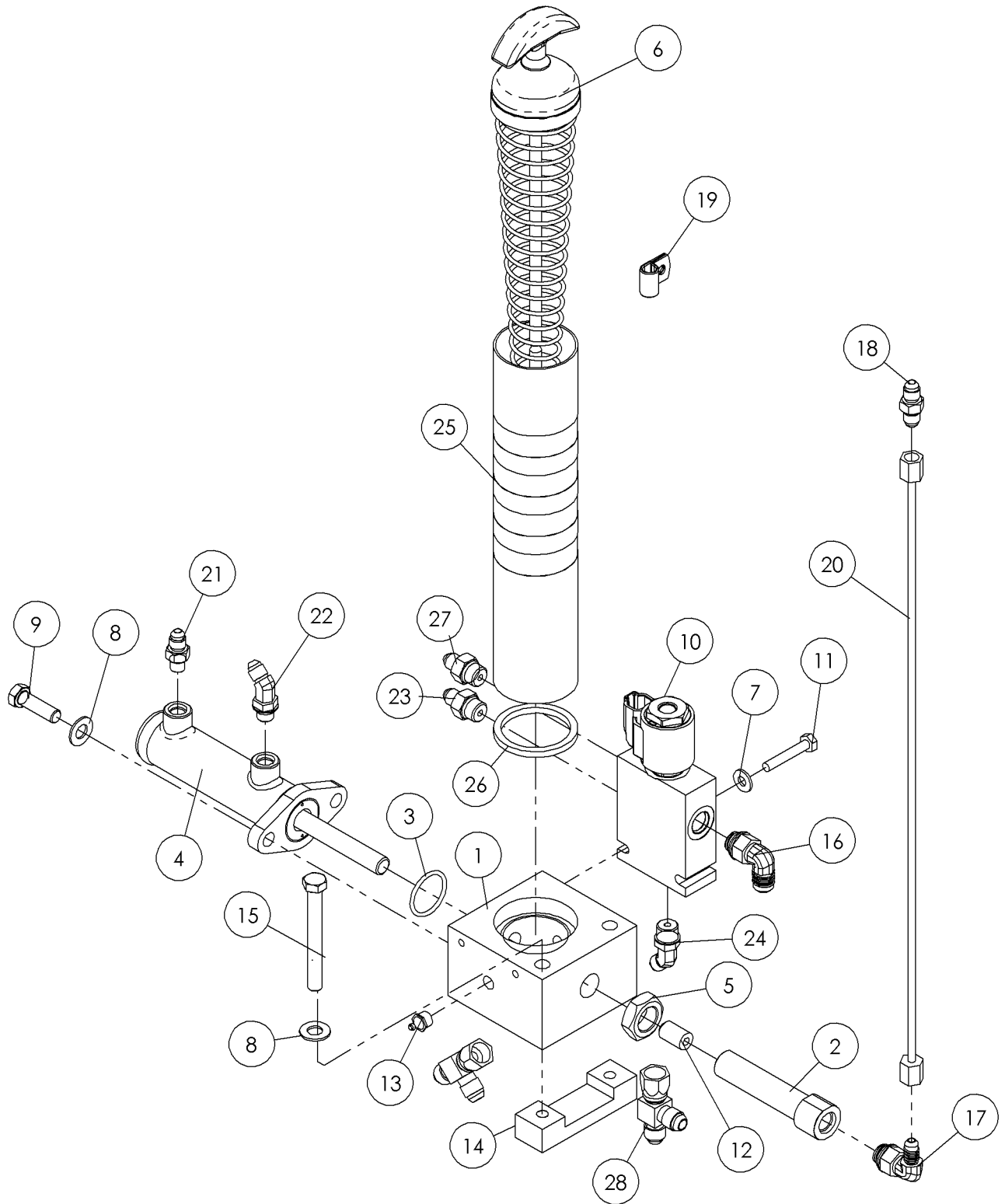
Auto Greaser Fig 5-7r01



Auto Greaser Fig 5-7r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		294895001	HOUSING - GREASE PUMP	1	
2		294896001	SLEEVE - GREASE PUMP	1	
3		296262010	O-RING - 213 .139 X .921 ID	1	
4		294899001	CYLINDER - HYD 1 X 2-3/8	1	Breakdown Fig. 11-38
5		510328311	NUT-HEXJAM-.75-16-GR2-YZ	1	
6		294903001	FOLLOWER - GREASE TUBE AY	1	
7		235716001	WASHER - FLATSTRL - .25 -.28 X .63 - .06 - CZ	2	
8		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
9		235736001	BOLT-3/8-16X1 1/4 ZYC	2	
10		294901001	VALVE - GREASER	1	Breakdown Fig. 11-8
11		238210001	BOLT - 1/4-20X1 1/2 GR8 HEX ZYC	2	
12		294905001	VALVE - INSERT CHECK, 1/2"	1	
13		586001	ZERK-1/8" ST NPT GREASE ZYC	1	
14		294908001	BAR - BLOCK MOUNT	1	
15		240377001	BOLT-3/8-16X3 1/4 GR8 ZINC PLT	2	
16		59426001	FITTING - 90-6MJ-6MORBA	1	
17		600118001	FITTING-6MORINGX4MJIC90PARKER	1	
18		65564001	FITTING - 4M JIC BULKHEAD ST.	1	
19		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	1	
20		60908001	FITTING-4MX4M JIC STR ADAPTER	1	
21		58295001	FITTING-4M OR X 4M JIC 45 DEG.	1	
22		57968001	FITTING-STR-4MJ-6MORB	1	
23		82931001	FITTING-45-4MJX6MORBA	1	
24		294910001	TUBE - GREASE	1	
25		294902001	GASKET - GREASE TUBE	1	
26		131009001	FITTING-4MJICX6MORING ST.062R	1	
27		59427001	TEE-6MJ-6FSJ-6MJ	2	
28		279015001	HOSE CLAMP - 9/16 W/13/32 HOLE	1	

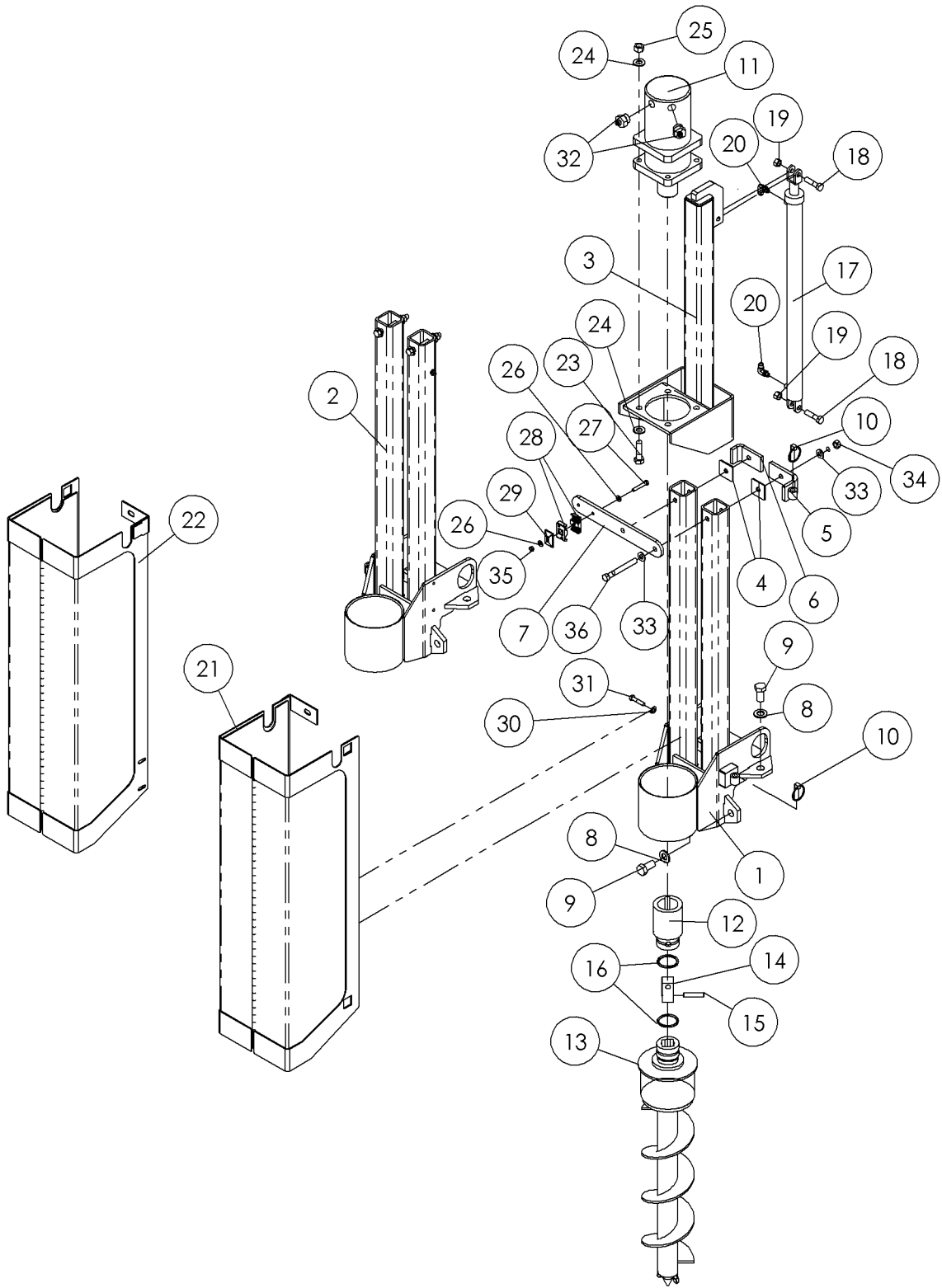
Auto Greaser Fig 5-7



Auto Greaser Fig 5-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		294895001	HOUSING - GREASE PUMP	1	
2		294896001	SLEEVE - GREASE PUMP	1	
3		296262010	O-RING #213 .139X.921 ID	1	
4		294899001	CYLINDER-HYD 1 X 2-3/8	1	Breakdown Fig. 11-38
5		510328311	NUT-HEXJAM-.75-16-GR2-YZ	1	
6		294903001	FOLLOWER-GREASE TUBE AY	1	
7		235716001	WASHER-FLAT SAE HARD-.25-.28 X .63-.06-CZ	2	
8		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	4	
9		235736001	BOLT 3/8-16x1 1/4 GR.8 HEX ZINC PLTD	2	
10		294901001	VALVE-GREASER	1	Breakdown Fig. 11-8
11		238210001	BOLT - 1/4-20X1 1/2 GR8 HEX ZYC	2	
12		294905001	VALVE-INSERT CHECK 1/2"	1	
13		586001	FITTING-GREASESTR-2MNPT	1	
14		294908001	BAR - BLOCK MOUNT	1	
15		240377001	BOLT-3/8-16X3 1/4 GR8 ZINC PLT	2	
16		59426001	FITTING - 90-6MJ-6MORBA	1	
17		600118001	FITTING-90-4MJ-6MORB	1	
18		56648001	FITTING-STR-4MJ-4MJ	1	
19		2595011	CLAMP - 3/8" 'P' STYLE	1	
20		285556001	HOSE-.078X18- 4FSJIC ST/ST 6900 PSI	1	
21		60908001	FITTING-STR-4MJ-4MORB	1	
22		58295001	FITTING-45-4MJ-4MORBA	1	
23		57968001	FITTING-STR-4MJ-6MORB	1	
24		82931001	FITTING-45-4MJX6MORBA	1	
25		294910001	TUBE - GREASE	1	
26		294902001	GASKET - GREASE TUBE	1	
27		131009001	FITTING-4MJICX6MORING ST.062R	1	
28		59427001	TEE-6MJ-6FSJ-6MJ	2	

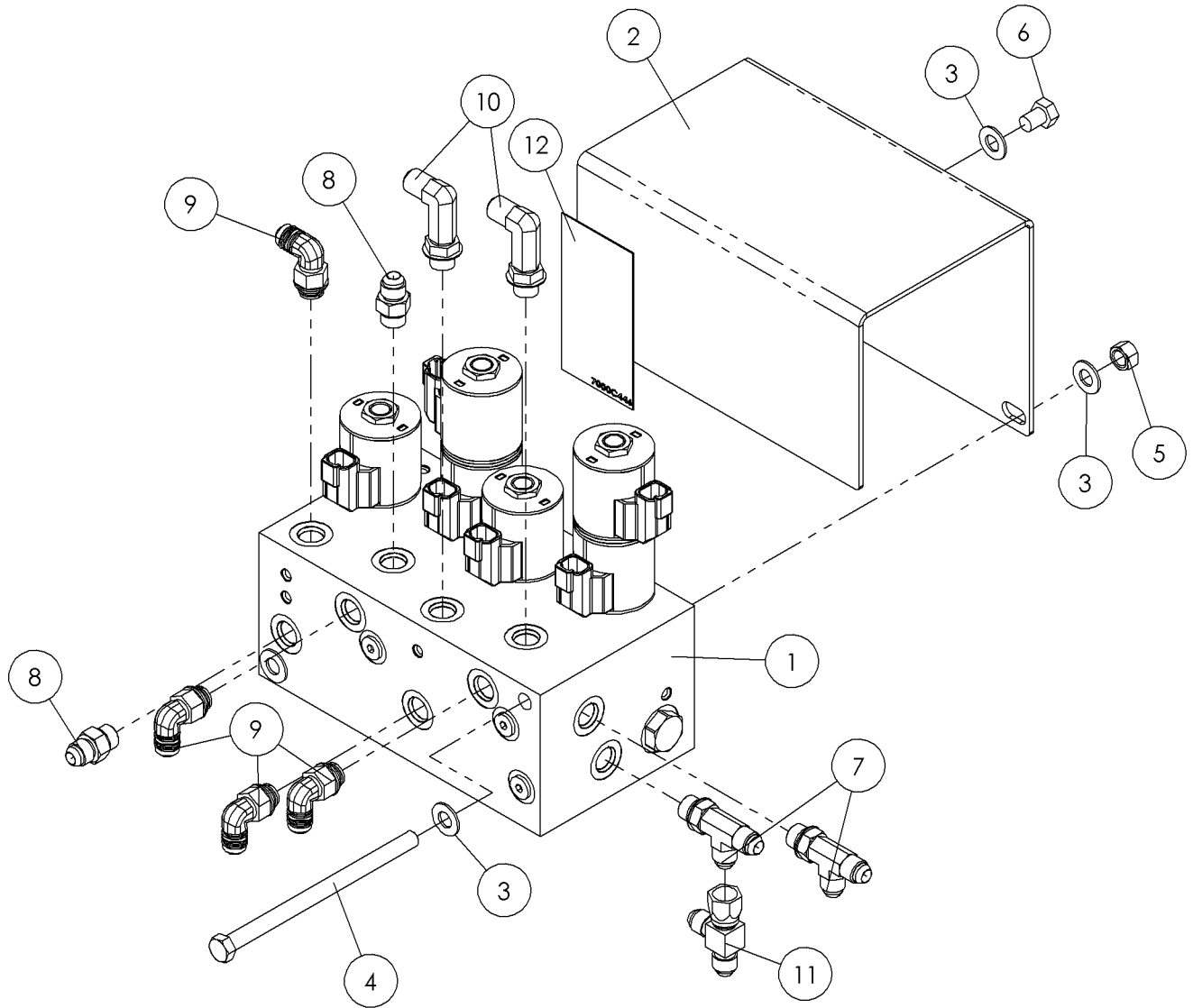
Stakedown Fig 6-1



Stakedown Fig 6-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296275488	WELDMENT - TOWER STAKEDOWN LEFT	1	
2		296275489	WELDMENT - TOWER STAKEDOWN RIGHT	1	
3		296265765	MOUNT - SLIDE MOTOR	2	
4		236233001	PLATE - SPACER	4	
5		296280264	WELDMENT-MOUNT STAKEDOWN GUARD-UPPER	2	
6		236232001	BAR - GUIDE	2	
7		279150001	BAR - LIGHT REINFORCEMENT	2	
8		235717001	WASHER-FLATSTRL-.75-.81X1.47-.15-YZ-A325	8	
9		385014	SCREW-HCS-.75-10X1.50-GR8-PLN	8	
10		1797001	PIN-QUICK TACH. 7/16X1 3/4	4	
11		236219001	HYD MOTOR-66CI	2	Breakdown Fig. 11-26
12		236205001	HUB-STAKE DRIVE	2	
13		232484001	STAKE-6" FLIGHT	2	
14		236230001	BAR - STAKE DRIVE	2	
15		236200001	PIN - STAKE KEEPER	4	
16		236229001	O-RING -	4	
17		287588001	CYLINDER - 1 1/2 X 24	2	Breakdown Fig. 11-22
18		235718001	SCREW-HCS-.50-13X2.00-GR8-YZ	4	
19		75382001	NUT-TLHEX-.50-13-C-CZ	4	
20		60906001	FITTING-90-6MJ-4MORBA	4	
21		296275438	WELDMENT - STAKE DOWN SHIELD RIGHT	1	
22		296275486	WELDMENT - STAKE DOWN SHIELD LEFT	1	
23		238245001	SCREW-HCS-.63-11X2.25-GR8-YZ	8	
24		235715001	WASHER-FLATSTRL-.63-.66X1.31-.09-YZ-A325	16	
25		238221001	NUT-HEX-.63-11-GR8-YZ	8	
26		235714001	WASHER-5/16 SAE HARD ZINC PLTD	4	
27		244147001	BOLT-5/16-18X2 1/4 GR8 ZINC PL	2	
28		900035005	CLAMP - 3/8" DOUBLE HOSE	4	
29		67846003	PLATE - TOP CLAMP	2	
30		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	4	
31		235720001	SCREW-HCS-.38-16X1.75-GR8-YZ	4	
32		64168001	12MX6 JIC M STR.	4	
33		485025	WASHER-FLATSAEHARD-.50-.53 X 1.06-.09-YZ	8	
34		235731001	NUT, 1/2-13 GR 8 ZINC PLATED	4	
35		235741001	NUT - HEX - .31 - 18 - GR8 - YZ	2	
36		250568001	SCREW - HCS-.50-13 X 4.50-GR 8-YZ	4	

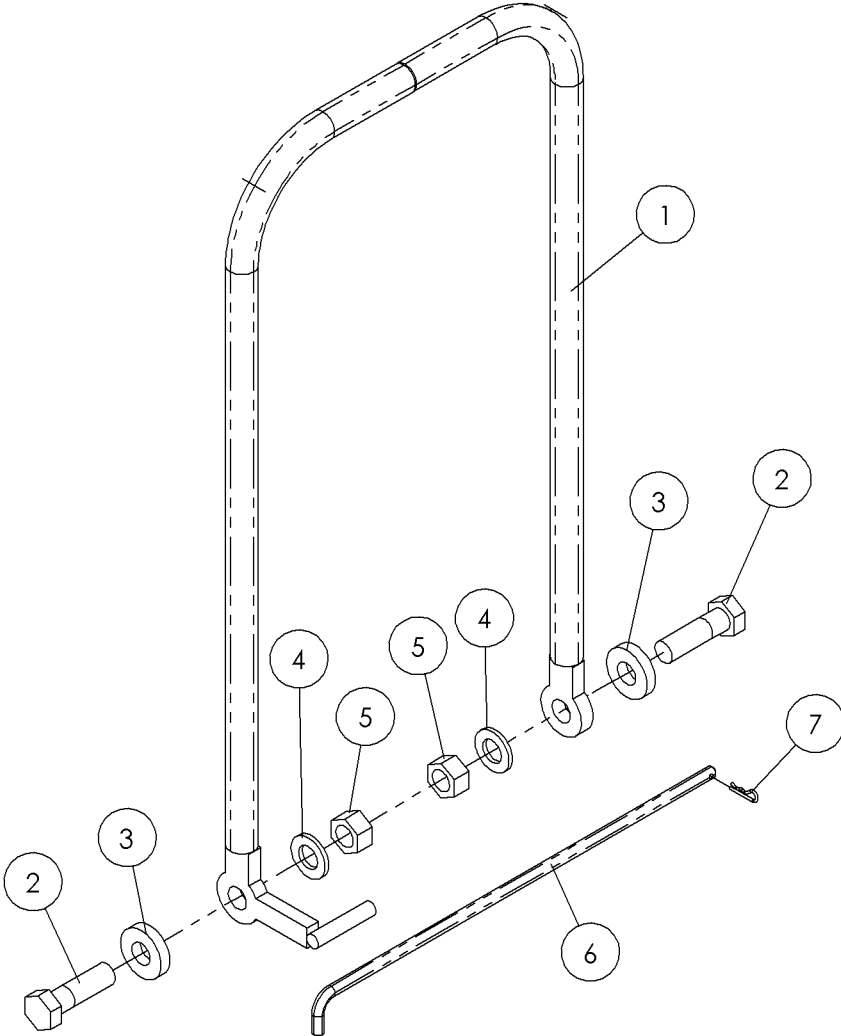
Valve - Stakedown Fig 6-2



Valve - Stakedown Fig 6-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296269562	VALVE - STAKE DOWN	1	Breakdown Fig. 11-11
2		279093001	SHIELD-VALVE	1	
3		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	5	
4		238214001	BOLT 3/8-16 X 6" Gr8 HEX Y/ZINC	2	
5		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	2	
6		240310001	SCREW - HCS - .38 - 16 X .50 - GR8 - YZ	1	
7		68774001	FITTING-6MX6M JIC (RUN)X6M JIC	2	
8		65565001	FITTING - 6M O-RING X 6M JIC ST.	2	
9		59426001	FITTING - 90-6MJ-6MORBA	4	
10		65570001	6M X 6M JIC 90 DEGREE LONG	2	
11		59427001	TEE-6MJ-6FSJ-6MJ	1	
12		7000C446	DECAL - NO WELD	1	Domestic
		700IC446	DECAL - NO WELD	1	International

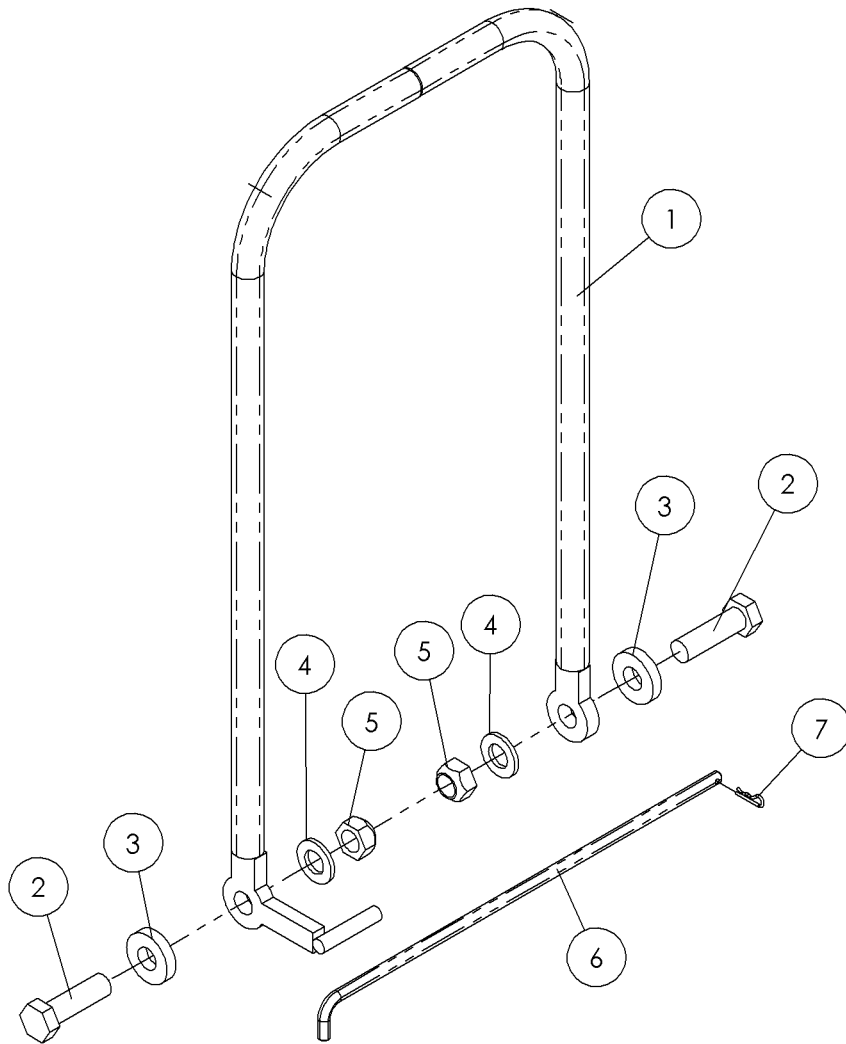
Rod Loader Guard Fig 7-1r01



Rod Loader Guard Fig 7-1r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Parts List.
1		296275478	WELDMENT - ARM SAFETY GUARD	1	
2		238880001	SCREW-HCS-.75-10X2.50-GR8-YZ	2	
3		276465001	TUBE - ARM SPACER	2	
4		235717001	WASHER-FLATSTRL-.75-.81X1.47-.15-YZ-A325	2	
5		250510001	NUT-TLHEX-.75-10-C-YZ	2	
6		276466001	BAR - ARM PIN	1	
7		1794007	PIN-HAIR-.08-.38-.080WIRE-CZ	1	

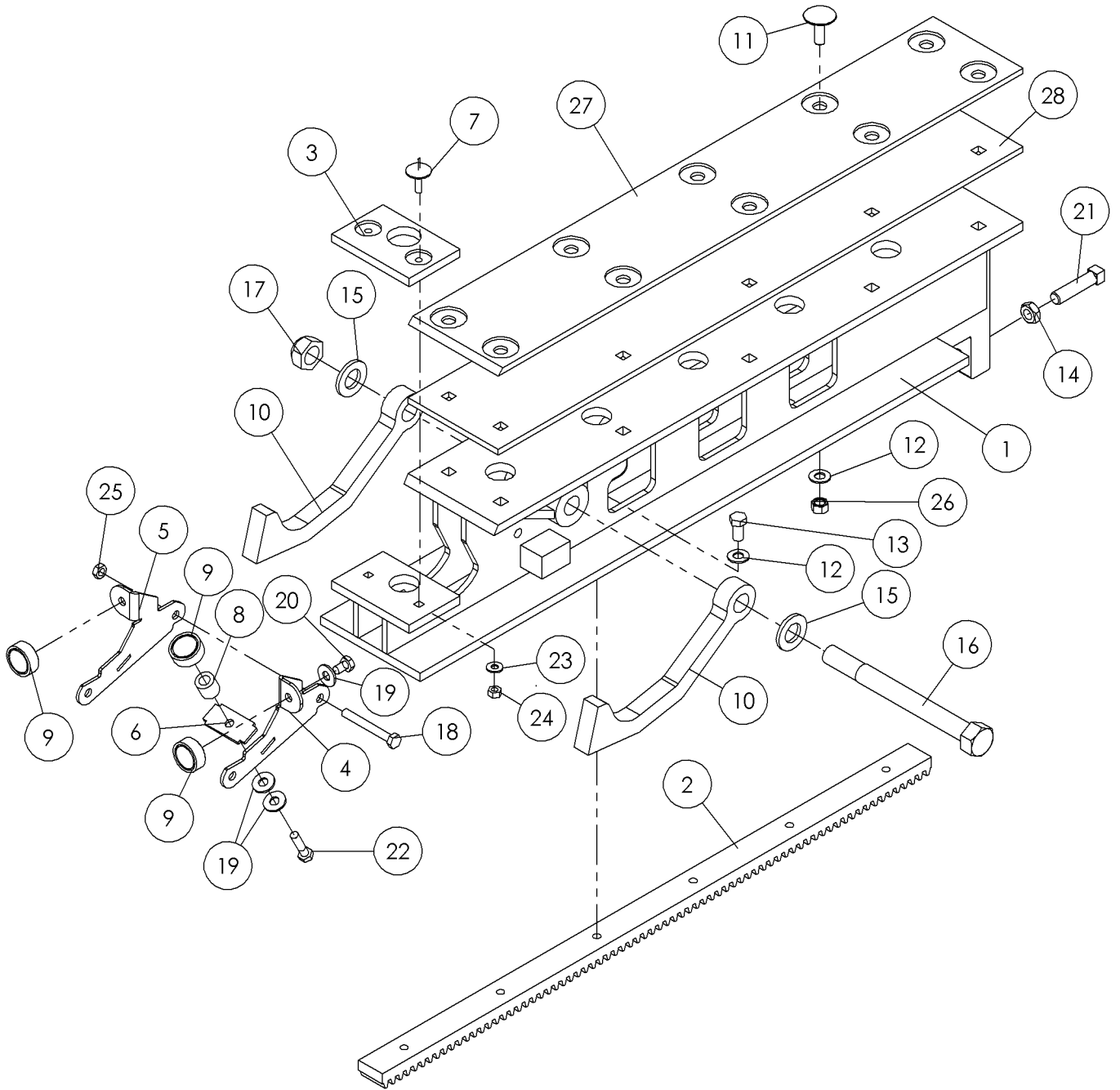
Rod Loader Guard Fig 7-1



Rod Loader Guard Fig 7-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296275478	WELDMENT - ARM SAFETY GUARD	1	
2		238880001	BOLT-3/4-10X2 1/2 HHCS GR8 ZY	2	
3		276465001	TUBE - ARM SPACER	2	
4		235717001	WASHER - 3/4" HARDENED FLAT YZ	2	
5		250510001	NUT 3/4 NC Gr8 SLTL Y/ZINC	2	
6		276466001	BAR - ARM PIN	1	
7		1794007	HAIR PIN COTTER - .080 WIRE	1	

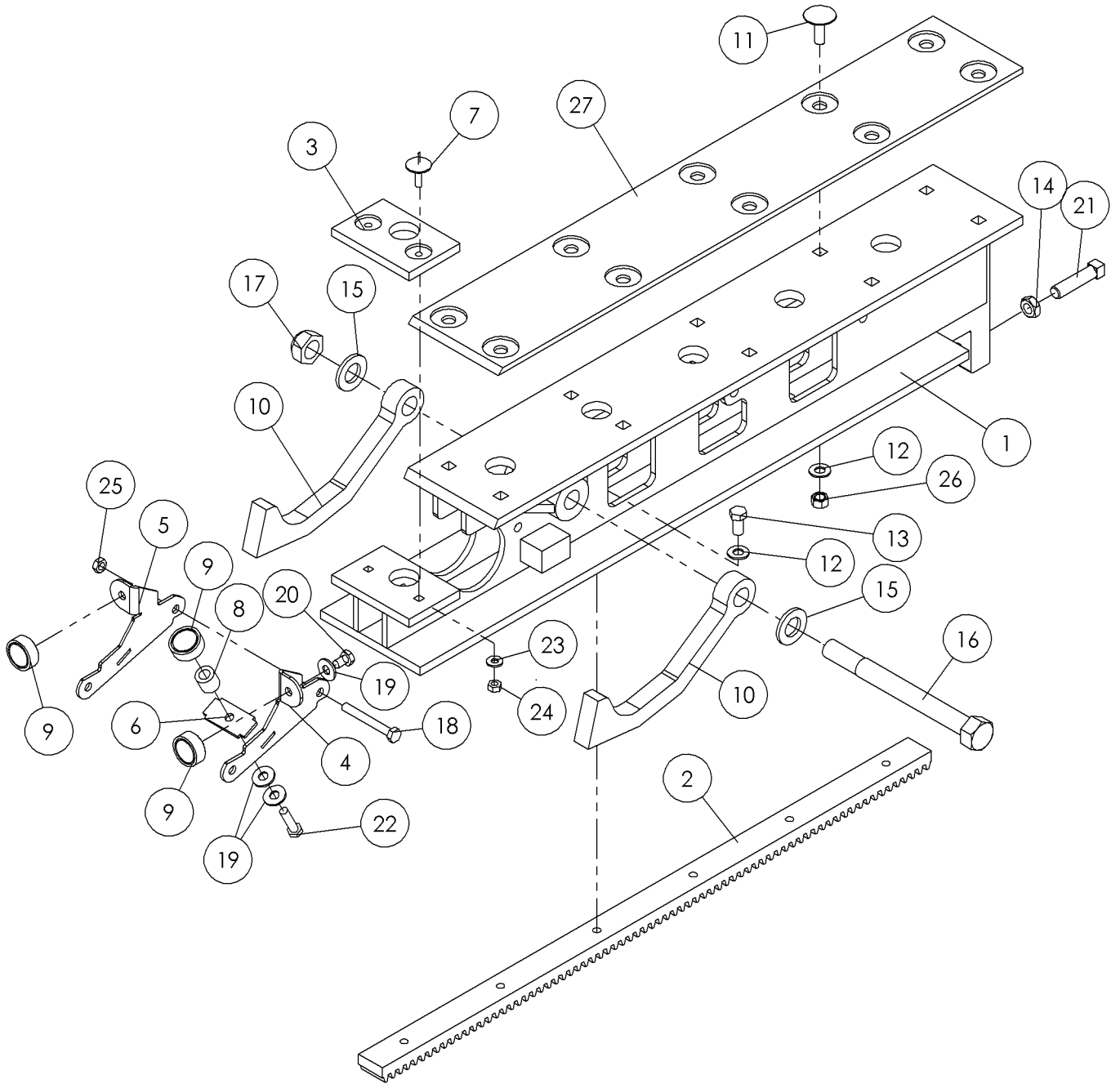
Rod Loader Arm Fig 7-2r01



Rod Loader Arm Fig 7-2r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280085	WELDMNT - ROD LOADER EXTEND/ RETRACT	1	
2		296280050	GEAR - ROD LOADER SLIDER	1	
3		277154001	BAR - WEAR	1	
4		296277002	PLATE - MAGNET MOUNT LH	1	
5		296277001	PLATE - MAGNET MOUNT RH	1	
6		296277003	PLATE - MAGNET MOUNT SPACER	1	
7		276477001	BOLT - 1/4-20 X 1 ELEVATOR ZN PLT	2	
8		296277004	TUBE - MAGNET SPACER	1	
9		282642001	MAGNET - 1.25" ROD HOLDER	3	
10		277147001	ARM -LOADER	2	
11		601699012	3/8-16X1 1/4 ELEVATOR BOLT ZNC	10	
12		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	16	
13		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	6	
14		75383001	NUT-1/2-UNC GR.8 JAM HEX	1	
15		235717001	WASHER - 3/4" HARDENED FLAT YZ	2	
16		240344001	SCREW-HCS-.75-10X7.50-GR8-YZ	1	
17		250510001	NUT 3/4 NC Gr8 SLTL Y/ZINC	1	
18		248029001	BOLT-5/16-18X2 1/2 GR8 ZYC	2	
19		510337605	WASHER-FLATSTD-.31-.38X.88-.08-YZ	4	
20		235740001	BOLT-5/16-18X1/2 GR8 ZYC	2	
21		153752001	SQ HSS-1/2-13X2 ZP	1	
22		248031001	BOLT-5/16-18X1 1/4 GR8 ZYC	1	
23		235716001	WASHER - FLATSTRL - .25 -.28 X .63 - .06 - CZ	2	
24		235732001	NUT - HEX - .25 - 20 - GR8 - YZ	2	
25		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	2	
26		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	10	
27		296280090	PLATE - STRIP WEAR	1	
28		296286543	PLATE - SHIM (2 5/8" ROD ONLY)	1	

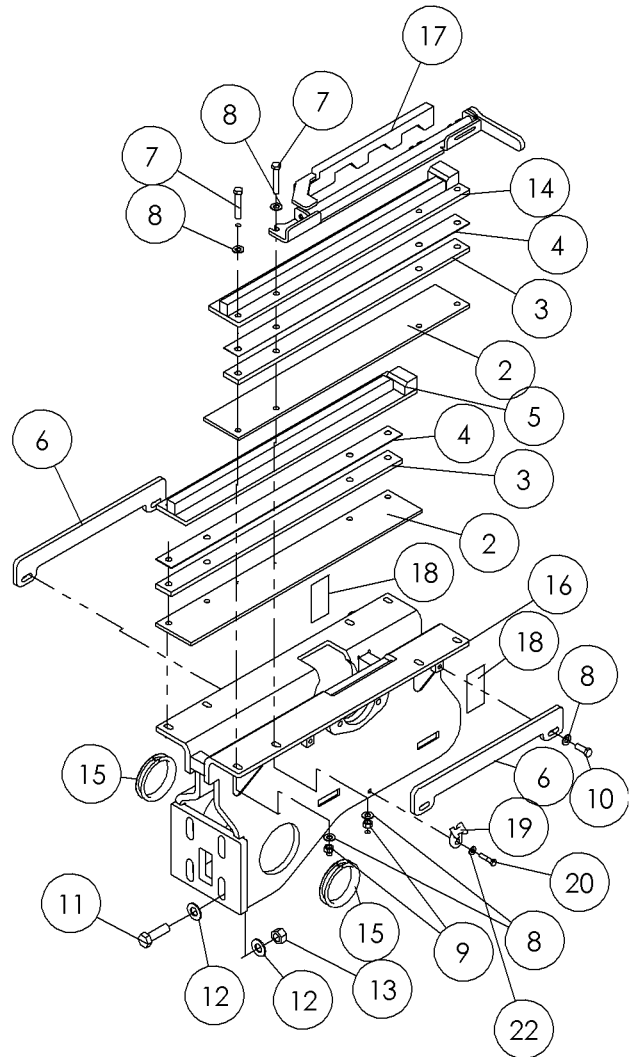
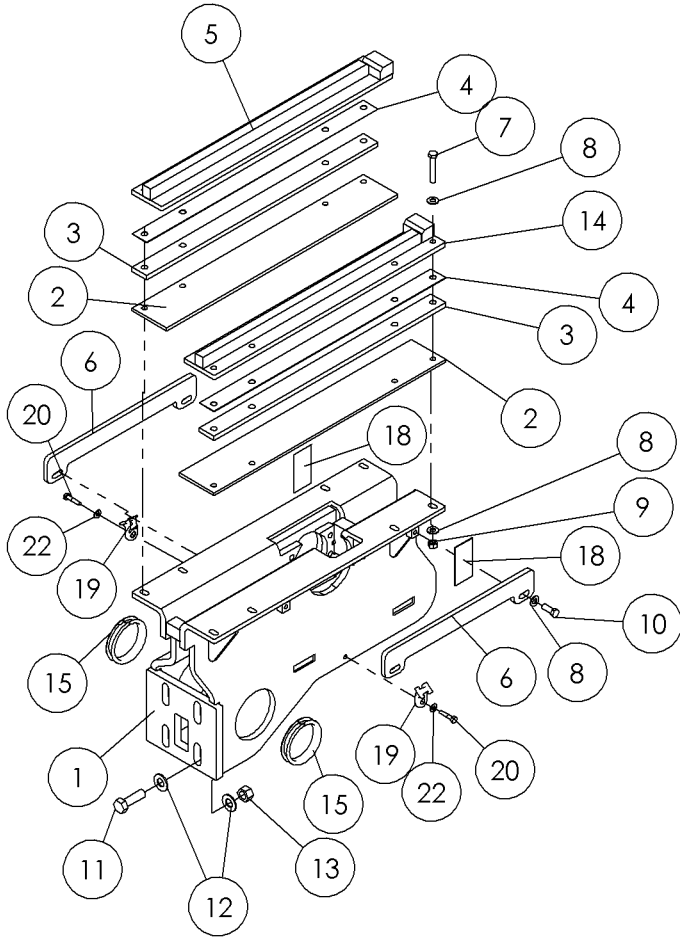
Rod Loader Arm Fig 7-2



Rod Loader Arm Fig 7-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280085	WELDMENT - ROD LOADER EXTEND/ RETRACT	1	
2		296280050	GEAR - ROD LOADER SLIDER	1	
3		277154001	BAR - WEAR	1	
4		296277002	PLATE - MAGNET MOUNT LH	1	
5		296277001	PLATE - MAGNET MOUNT RH	1	
6		296277003	PLATE - MAGNET MOUNT SPACER	1	
7		276477001	BOLT - 1/4-20 X 1 ELEVATOR ZN PLT	2	
8		296277004	TUBE - MAGNET SPACER	1	
9		282642001	MAGNET - 1.25" ROD HOLDER	3	
10		277147001	ARM -LOADER	2	
11		601699012	3/8-16X1 1/4 ELEVATOR BOLT ZNC	10	
12		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	16	
13		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	6	
14		75383001	NUT-1/2-UNC GR.8 JAM HEX	1	
15		235717001	WASHER - 3/4" HARDENED FLAT YZ	2	
16		240344001	BOLT-3/4-10X7 1/2 GR#8 ZINC PL	1	
17		250510001	NUT 3/4 NC Gr8 SLTL Y/ZINC	1	
18		248029001	BOLT-5/16-18X2 1/2 GR8 ZINC PL	2	
19		510337605	WASHER-FLATSTD-.31-.38X.88-.08-YZ	4	
20		235740001	BOLT-5/16-18X1/2 GR8 ZINC PLT	2	
21		153752001	SQ HSS-1/2-13X2 PLATED	1	
22		248031001	BOLT-5/16-18X1 1/4 GR8 ZINC PL	1	
23		235716001	WASHER - FLATSTRL - .25 -.28 X .63 - .06 - CZ	2	
24		235732001	NUT - HEX - .25 - 20 - GR8 - YZ	2	
25		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	2	
26		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	10	
27		296280090	PLATE - STRIP WEAR	1	

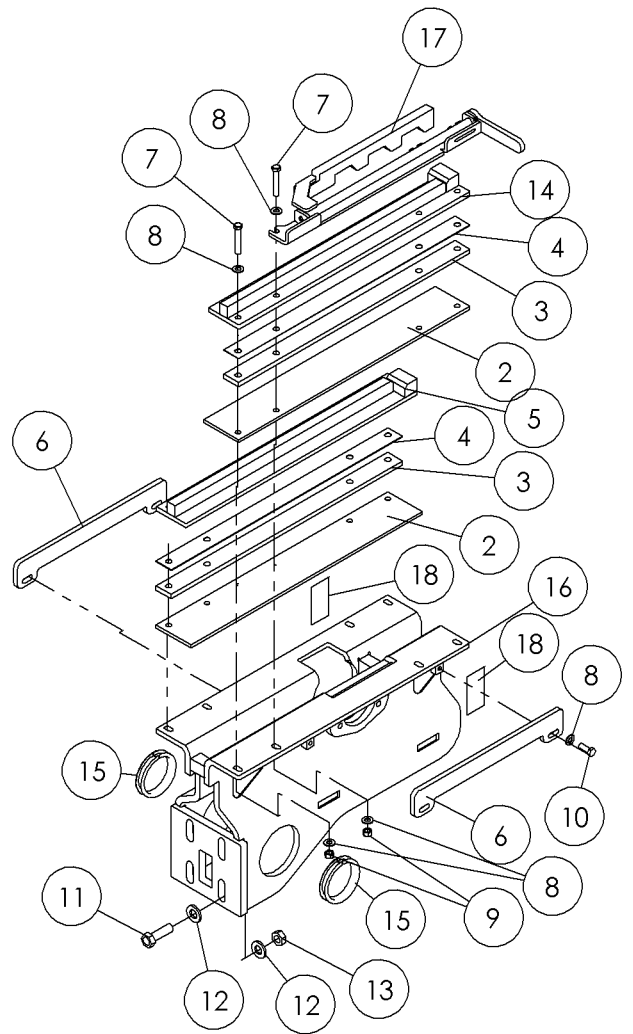
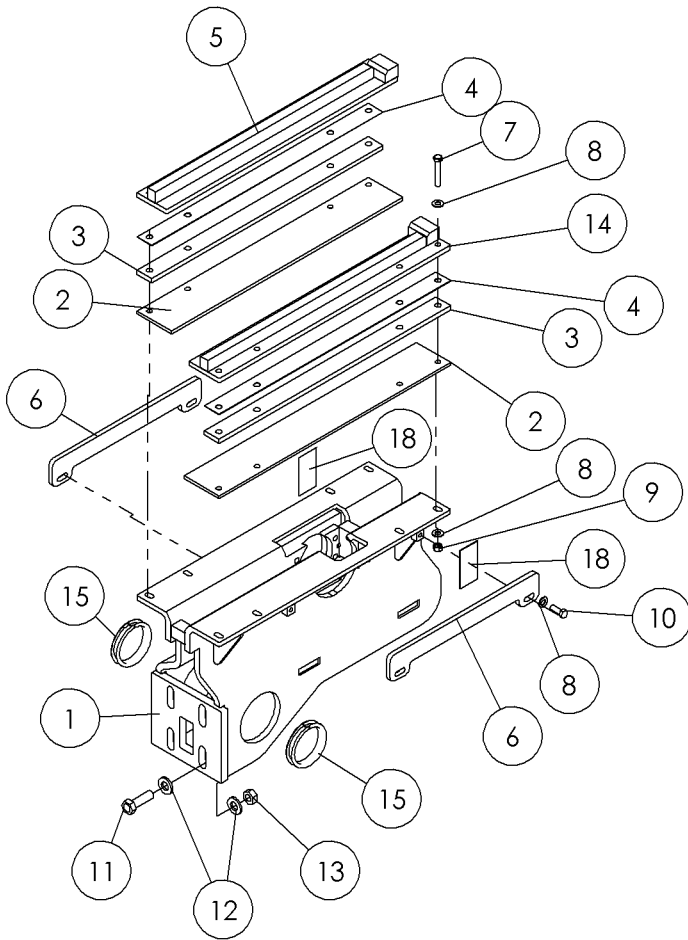
Rod Selector Fig 7-3r02



Rod Selector Fig 7-3r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296280039	WELDMENT - ROD LOADER MOUNT, REAR	1	
2		296280063	STRIP - PLASTIC WEAR	4	
3		296280061	PLAT E- SPACER HOLD DOWN	4	
4		296280062	PLATE - SHIM HOLD DOWN	4	
5		296280058	WELDMENT - COVER PLATE RIGHT	2	
6		296280064	PLATE - BAR CLAMP	4	
7		250504001	BOLT 3/8-16 X 2 1/4"GR8 HEX Y	16	
8		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	40	
9		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	16	
10		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	8	
11		145645001	BOLT - 5/8 - 11 X 2 GR.8 ZYC	8	
12		235715001	WASHER-FLATSTRL-5/8" YZ A325	16	
13		238221001	NUT - HEX -.63 - 11 - GR8 - YZ	8	
14		296280057	WELDMENT - COVER PLATE LEFT	2	
15		278774001	SEAL - EDGE 1/2" STYLE	4	
16		296280040	WELDMENT - ROD LOADER MOUNT, FRONT	1	
17		296280052	WELDMENT - STOP FRONT ROW	1	
18		7000a864	DECAL-WARNING DOMESTIC	4	
19		296276018	MOUNT HELLER MANN TITON	3	
20		250008001	BOLT 1/4-20 X 1 1/4 ZINC PL	3	
21		248198001	NUT-1/4 - 20 GR8 TOP LOCK ZINC	3	
22		235716001	WASHER - FLATSTRL - .25 -.28 X .63 - .06 - CZ	6	

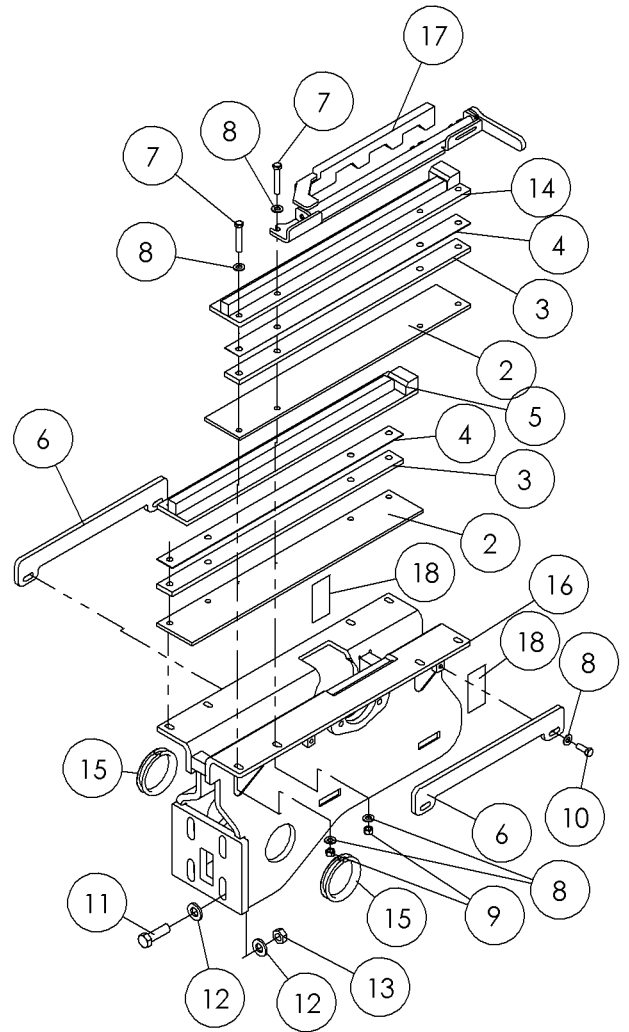
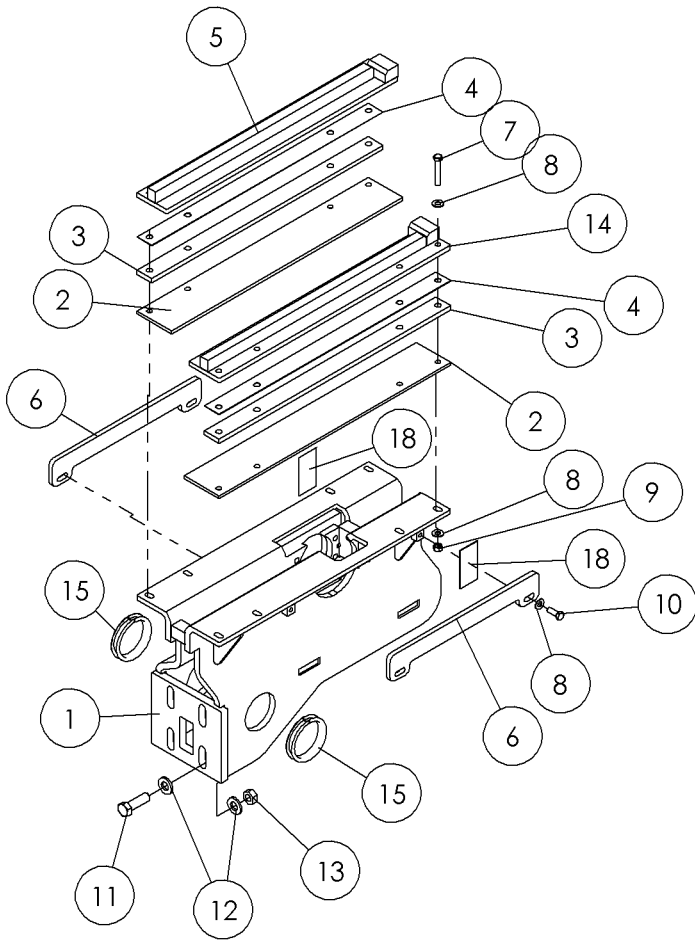
Rod Selector Fig 7-3r01



Rod Selector Fig 7-3r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		296280039	WELDMENT - ROD LOADER MOUNT, REAR	1	
2		296280063	STRIP - PLASTIC WEAR	4	
3		296280061	PLAT E- SPACER HOLD DOWN	4	
4		296280062	PLATE - SHIM HOLD DOWN	4	
5		296280058	WELDMENT - COVER PLATE RIGHT	2	
6		296280064	PLATE - BAR CLAMP	4	
7		250504001	BOLT 3/8-16 X 2 1/4"GR8 HEX Y	16	
8		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	40	
9		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	16	
10		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	8	
11		145645001	BOLT - 5/8 - 11 X 2 GR.8 ZYC	8	
12		235715001	WASHER-5/8 SAE HARD ZINC PLTD	16	
13		238221001	NUT - HEX -.63 - 11 - GR8 - YZ	8	
14		296280057	WELDMENT - COVER PLATE LEFT	2	
15		278774001	SEAL - EDGE 1/2" STYLE	4	
16		296280040	WELDMENT - ROD LOADER MOUNT, FRONT	1	
17		296280052	WELDMENT - STOP FRONT ROW	1	
18		7000a864	DECAL-WARNING DOMESTIC	4	Domestic
		700IA864	DECAL-WARNING INTERNATIONAL	4	International

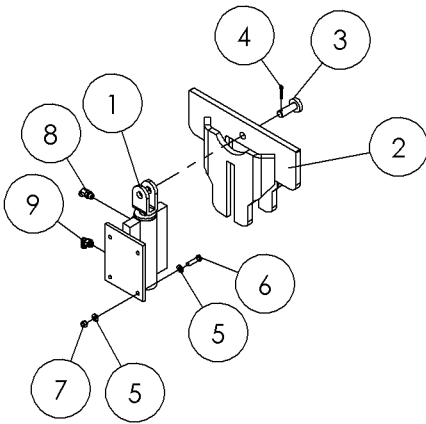
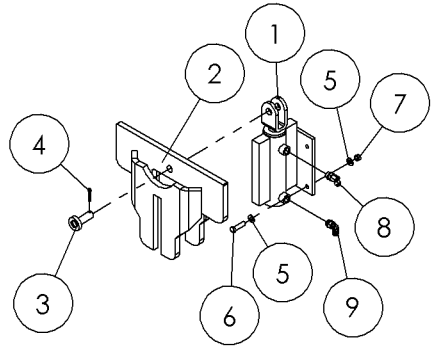
Rod Selector Fig 7-3



Rod Selector Fig 7-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280039	WELDMENT - ROD LOADER MOUNT, REAR	1	
2		296280063	STRIP - PLASTIC WEAR	4	
3		296280061	PLATE - SPACER HOLD DOWN	4	
4		296280062	PLATE - SHIM HOLD DOWN	4	
5		296280058	WELDMENT - COVER PLATE RIGHT	2	
6		296280064	PLATE - BAR CLAMP	4	
7		250504001	BOLT-3/8-16X2 1/4 FULL THD	16	
8		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	40	
9		250508001	NUT-TLHEX-.38-16-C-YZ	16	
10		235727001	BOLT - 3/8-16x1 GR.8 HEX	8	
11		145645001	SCREW-HCS-.63-11 X 2.00 GR88-YZ	8	
12		235715001	WASHER- 5/8 SAE HARD ZINC PLTD.	16	
13		238221001	5/8-11 GR8 NCY- ZINC NUT	8	
14		296280057	WELDMENT - COVER PLATE LEFT	2	
15		278774001	SEAL - EDGE 1/2" STYLE	4	
16		296280040	WELDMENT - ROD LOADER MOUNT, FRONT	1	
17		296280052	WELDMENT - STOP FRONT ROW	1	
18		7000A864	DECAL - WARNING	4	Domestic
		700IA864	DECAL-WARNING INTERNATIONAL	4	International

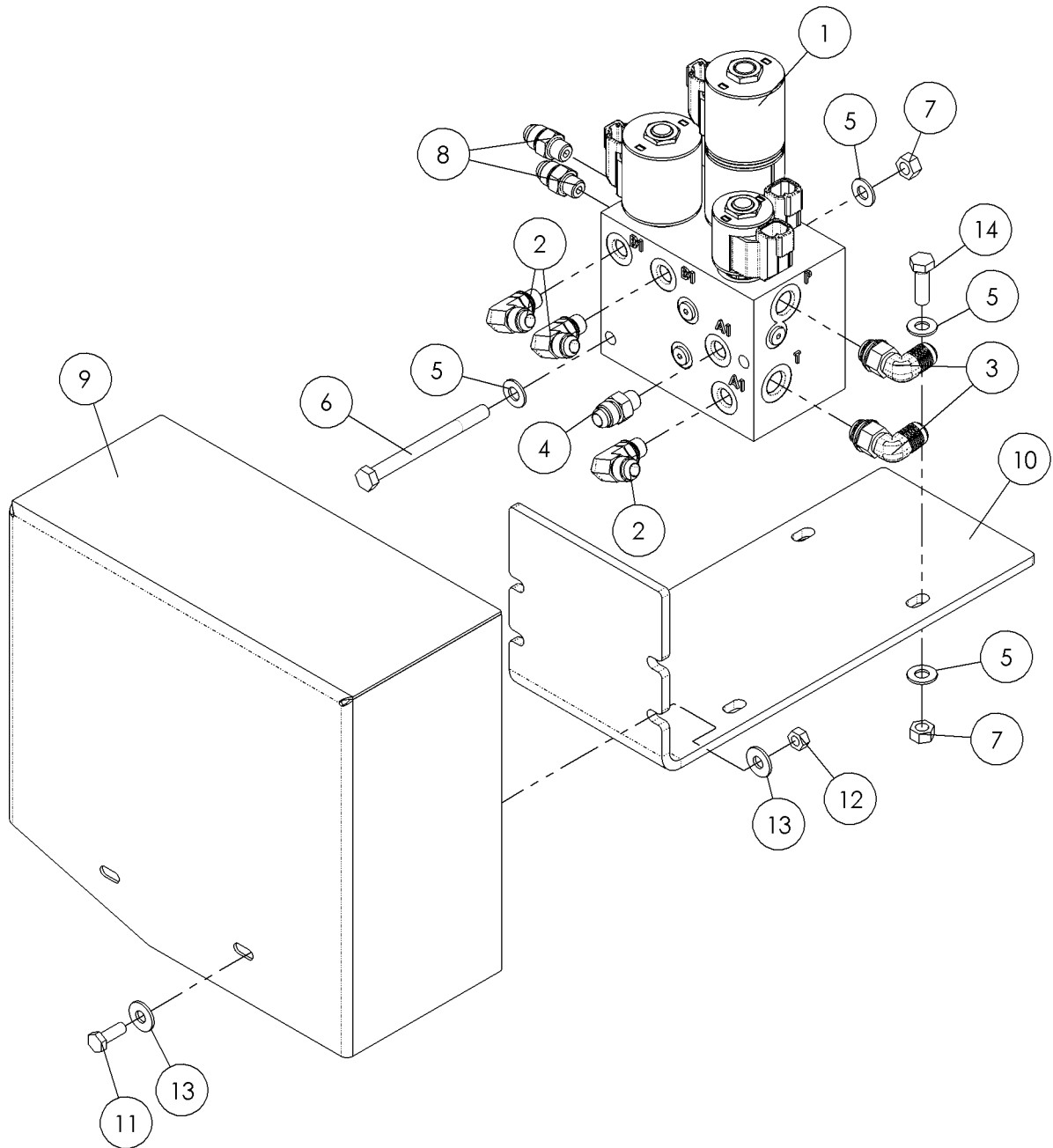
Cylinder - Rod Lift Fig 7-4



Cylinder - Rod Lift Fig 7-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		250494001	CYLINDER - 2 X 5"	2	Breakdown Fig. 11-19
2		296280022	WELDMENT - ROD LIFT	2	
3		222815001	PIN-STEER CYLINDER	2	
4		510047	PIN - 3/16 X 1 1/4 COTTER REF T16726	2	
5		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	16	
6		235723001	SCREW - HCS -.38 - 16 X 1.50 - GR8 - YZ	8	
7		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	8	
8		65563001	FITTING - 6M O-RING X 6M JIC 45 DEGREE	2	
9		59426001	FITTING - 90-6MJ-6MORBA	2	

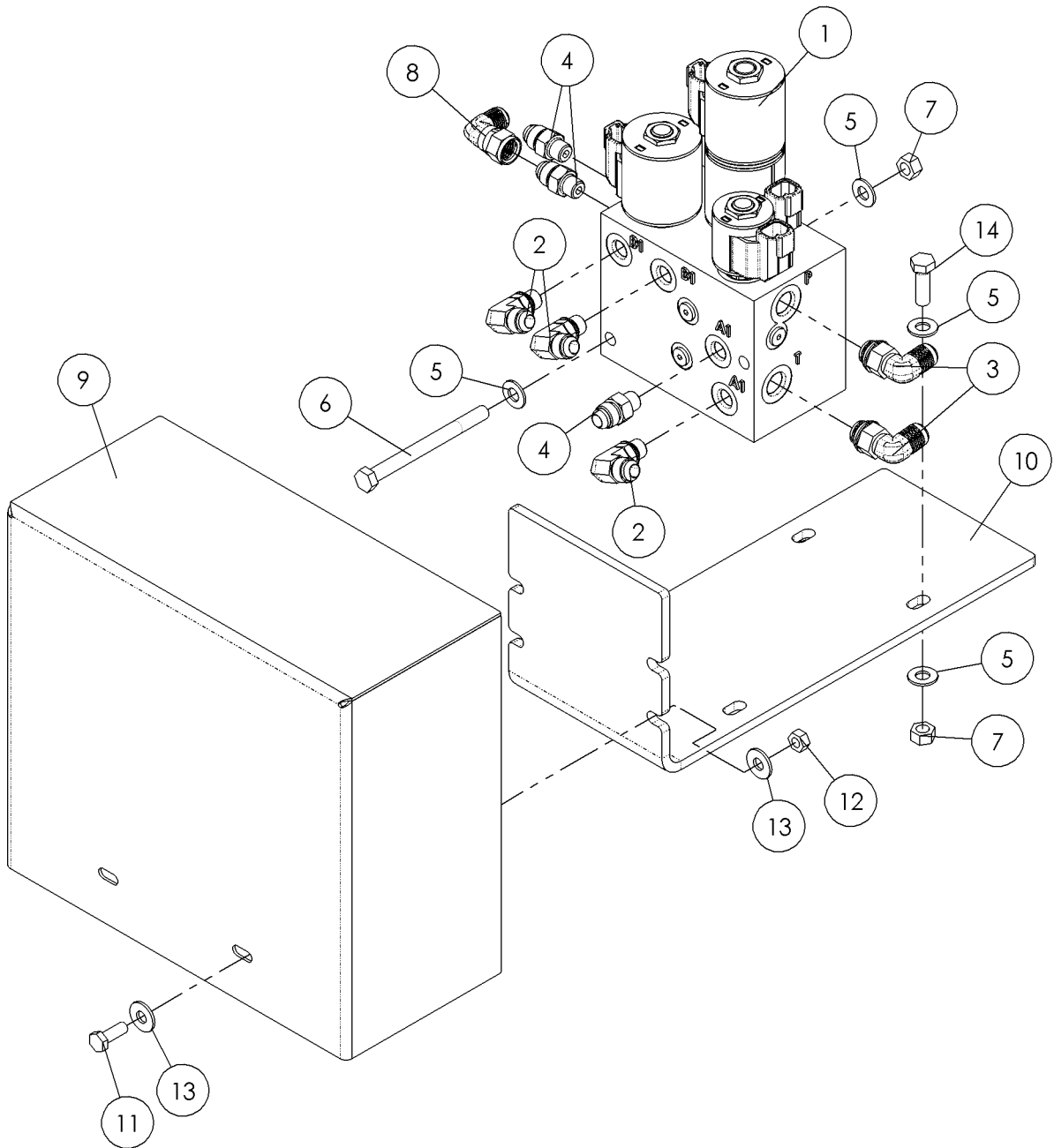
Valve - Rod Loader Fig 7-5r01



Valve - Rod Loader Fig 7-5r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296269662	MANIFOLD - ROD LOADER	1	Breakdown Fig. 11-2
2		60906001	4MX6M JIC 90 DEG ELBOW	3	
3		59426001	FITTING - 90-6MJ-6MORBA	2	
4		65569001	4M X 6M JIC ST.	1	
5		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	8	
6		250503001	BOLT 5/16 - 18 X 3 3/4 Gr8 HEX	2	
7		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	4	
8		296284019	FITTING - 6MJICX4MORB ST.060R	2	
9		296284010	SHIELD - ROD LOADER VALVE	1	
10		296280972	BRACKET - ROD LOADER VALVE	1	
11		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	2	
12		235732001	NUT - HEX - .25 - 20 - GR8 - YZ	2	
13		510337603	WASHER-FLATSTD-.25-.31X.75-.07-YZ	4	
14		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	2	

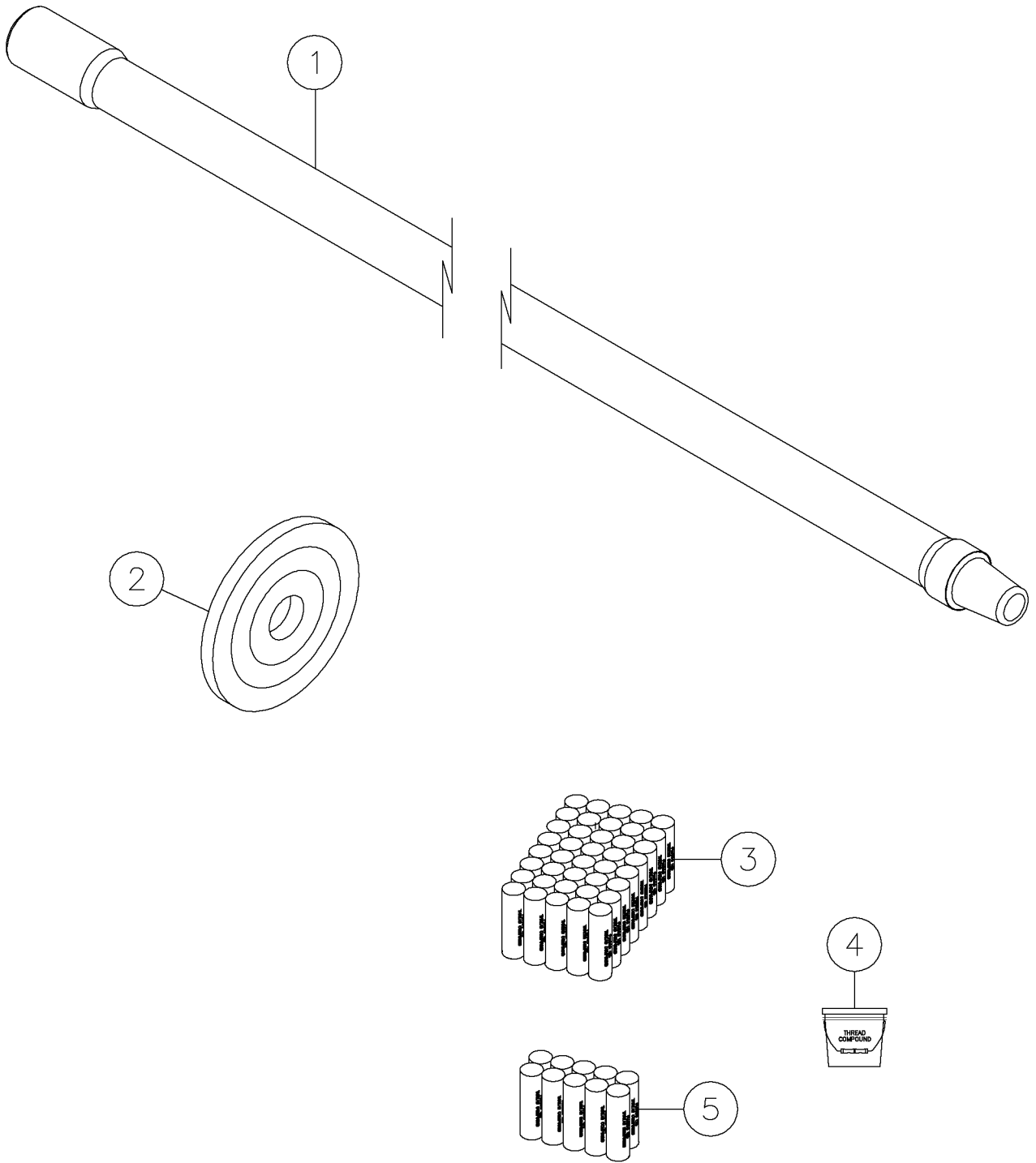
Valve - Rod Loader Fig 7-5



Valve - Rod Loader Fig 7-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296269662	MANIFOLD - ROD LOADER	1	Breakdown Fig. 11-2
2		60906001	4MX6M JIC 90 DEG ELBOW	3	
3		59426001	FITTING - 90-6MJ-6MORBA	2	
4		65569001	4M X 6M JIC ST.	1	
5		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	8	
6		250503001	BOLT 5/16 - 18 X 3 3/4 Gr8 HEX	2	
7		235741001	NUT - HEX - .31 - 18 - GR8 - YZ	4	
8		296284019	FITTING - 6MJICX4MORB ST.060R	2	
9		60851001	FITTING-6M JICX6FS JIC 90ELBOW	1	
10		296284010	SHIELD - ROD LOADER VALVE	1	
11		296280972	BRACKET - ROD LOADER VALVE	1	
12		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	2	
13		235732001	NUT - HEX - .25 - 20 - GR8 - YZ	2	
14		510337603	WASHER-FLATSTD-.25-.31X.75-.07-YZ	4	
15		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	2	

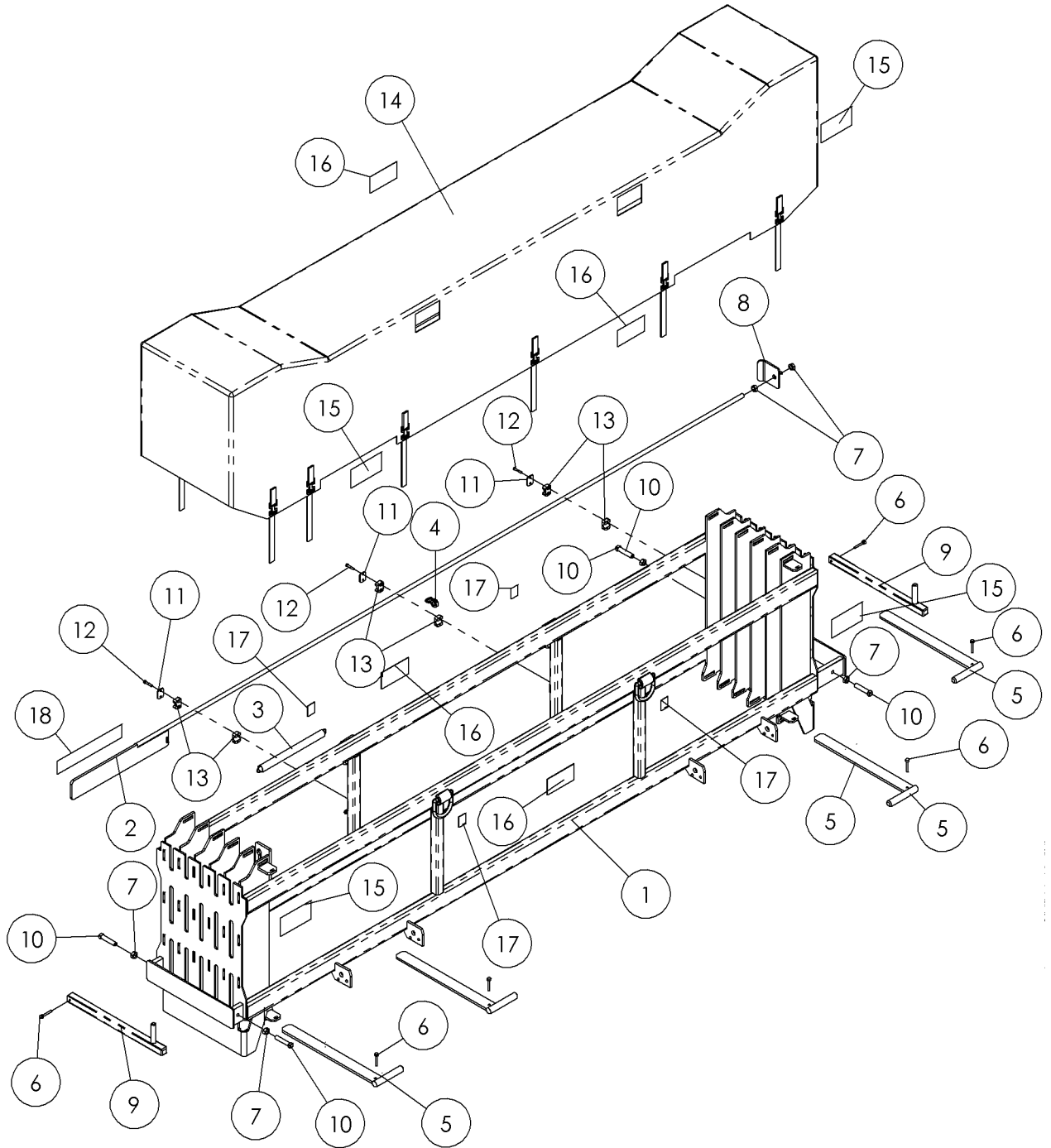
Rod - 10' Firestick II Fig 7-6



Rod - 10' Firestick II Fig 7-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		294566001	DRILL STEM - 10' 2.375" FST II V3		
2		235924001	WIPER-2 3/8 OD ROD		
3		296274031	THREAD - COMPOUND CARTRIDGE 30 PACK		
4		235983001	LUBRICANT - THREAD 1 GALLON		
5		296274030	THREAD - COMPOUND 3/10PACKS - CARTRIDGES		
		296284046	ROD ASSY-50X2 3/8X10'		Inc. 50 Of Ref. 1 And 2 Of Ref. 2
		296284050	ROD ASSY-25X2 3/8X10'		Inc. 25 Of Ref. 1 And 1 Of Ref. 2

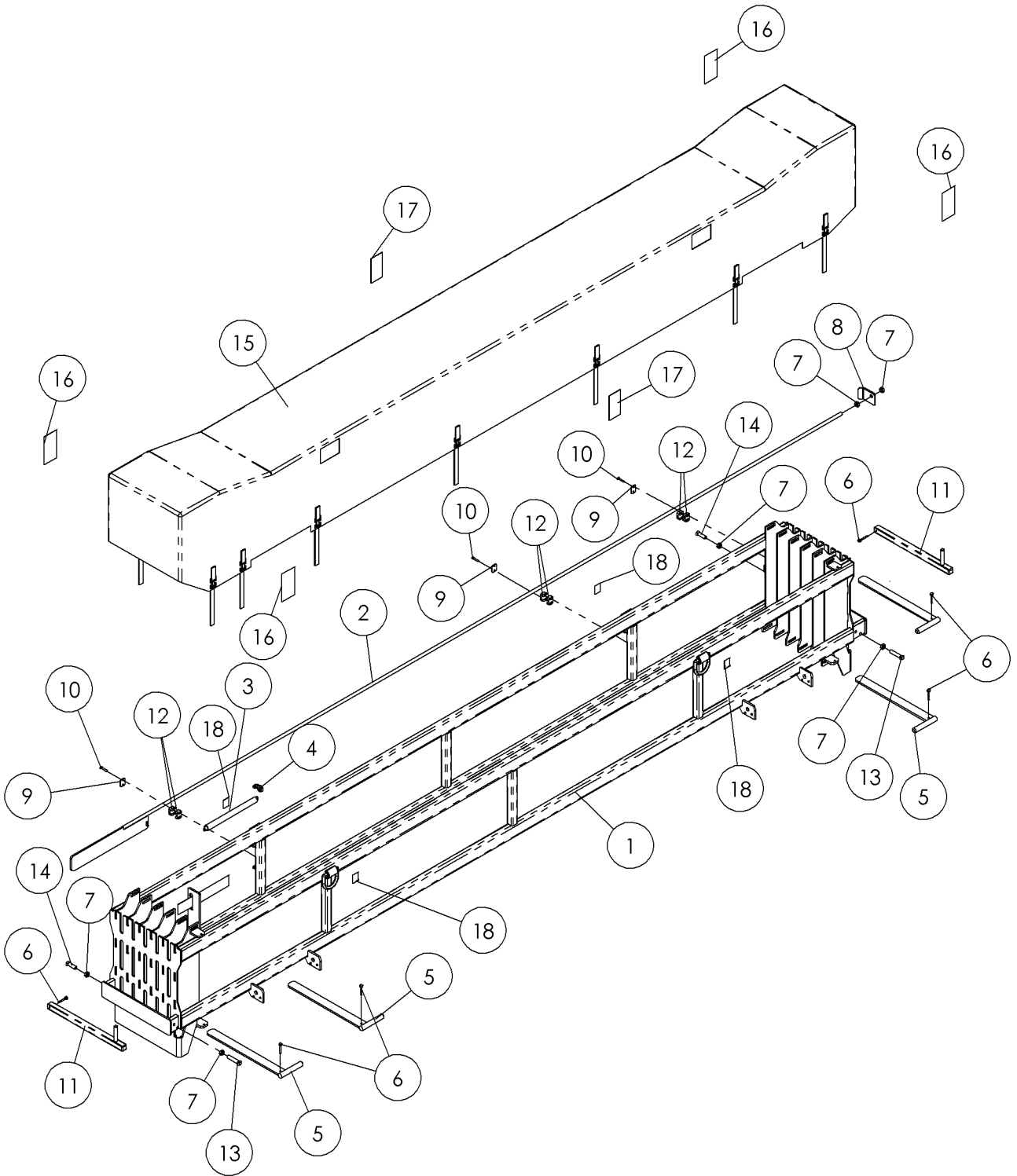
Rod Box - 10' (500 FT.) Fig 7-7r02



Rod Box - 10' (500 FT.) Fig 7-7r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296280485	WELDMENT - ROD BOX, 500FT	1	
2		296280100	WELDMENT - ROD POSITION MARKER	1	
3		1789001	SPRING - 1.125" OD X .9375" ID X 15"	1	
4		295529001	WELDMENT - MOUNT ROD INDICATOR SPRING	1	
5		296275471	WELDMENT - FLAT BAR RETAINER	4	
6		2108001	LYNCH PIN - 1/4X2	6	
7		250514001	NUT-HEXJAM-.63-11-GR8-YZ	6	
8		296279747	PLATE - FLAG STOP	1	
9		296280023	PIN - ROD BOX	2	
10		551030	SQ HSS-5/8-11X3	4	
11		903135005	PLATE - COVER COP-2	3	
12		238210001	SCREW-HCS-.25-20X1.50-GR8-YZ	6	
13		279817001	CLAMP HOSE 2180PP	6	
14		296280173	COVER - ROD BOX, 10FT, 5 ROW	1	
15		7000A627	DECAL - DANGER	4	Domestic
		700IA627	DECAL-DANGER	4	International
16		70000563	DECAL-WARNING	4	Domestic
		7000I563	DECAL-WARNING (UND)	4	International
17		7000I445	DECAL-LIFT POINT	4	
18		700IA997	DECAL - INDICATOR	1	
		296260958	D36X50II 10' LONG ROD BOX ASSEMBLY(DOMESTIC)		Inc. Rod Box And Decals
		296287072	D36X50II 10' LONG ROD BOX ASSY-(INT'L)		Inc. Rod Box And Decals

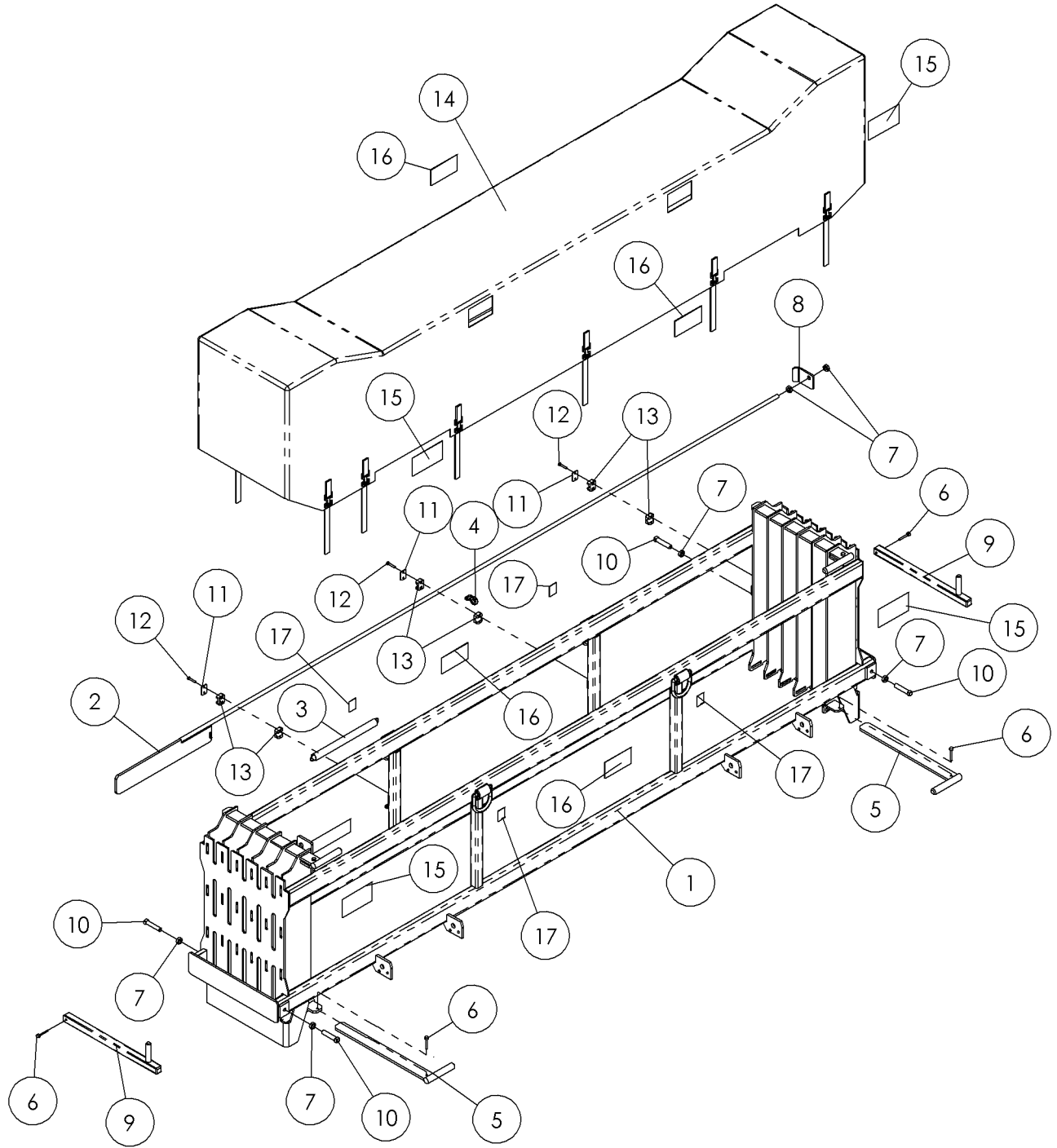
Rod Box - 10' (500 FT.) Fig 7-7r01



Rod Box - 10' (500 FT.) Fig 7-7r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296260958	D36X50II 10' LONG ROD BOX ASSEMBLY	1	Inc. Rod Box And Decals
2		296280168	WELDMENT - ROD POSITION MARKER	1	
3		1789001	SPRING-1 1/8ODX15/16ID X 15 EXT REF	1	
4		295529001	MOUNT-ROD INDICATOR SPRING	1	
5		296275471	WELDMENT - FLAT BAR RETAINER	4	
6		2108001	LYNCH PIN - 1/4 X 2 REF T11609	6	
7		250514001	NUT -5/8NC JAM Y/ZINC	6	
8		296280123	PLATE - FLAG STOP	1	
9		903135005	PLATE-COVER COP-2	3	
10		238210001	BOLT - 1/4-20X1 1/2 GR8 HEX ZYC	6	
11		296280023	PIN - ROD BOX	2	
12		279817001	CLAMP - HOSE 2180PP	6	
13		601697030	SQ HSS-5/8-11X3 ZINC PLT	2	
14		510365820	SCREW-SQSET-.63-11X2.00-YZ-CUP	2	
15		296280171	COVER-ROD BOX, 15FT, 5ROW	1	
16		7000A627	DECAL-DANGER	4	Domestic
		700IA627	DECAL-DANGER	4	International
17		70000563	DECAL-WARNING (UND)	2	Domestic
		7000I563	DECAL-WARNING (UND)	2	International
18		7000I445	DECAL-LIFT POINT	4	
19		700IA997	DECAL - GEARBOX POSITION	1	

Rod Box - 10' (500 FT.) Fig 7-7



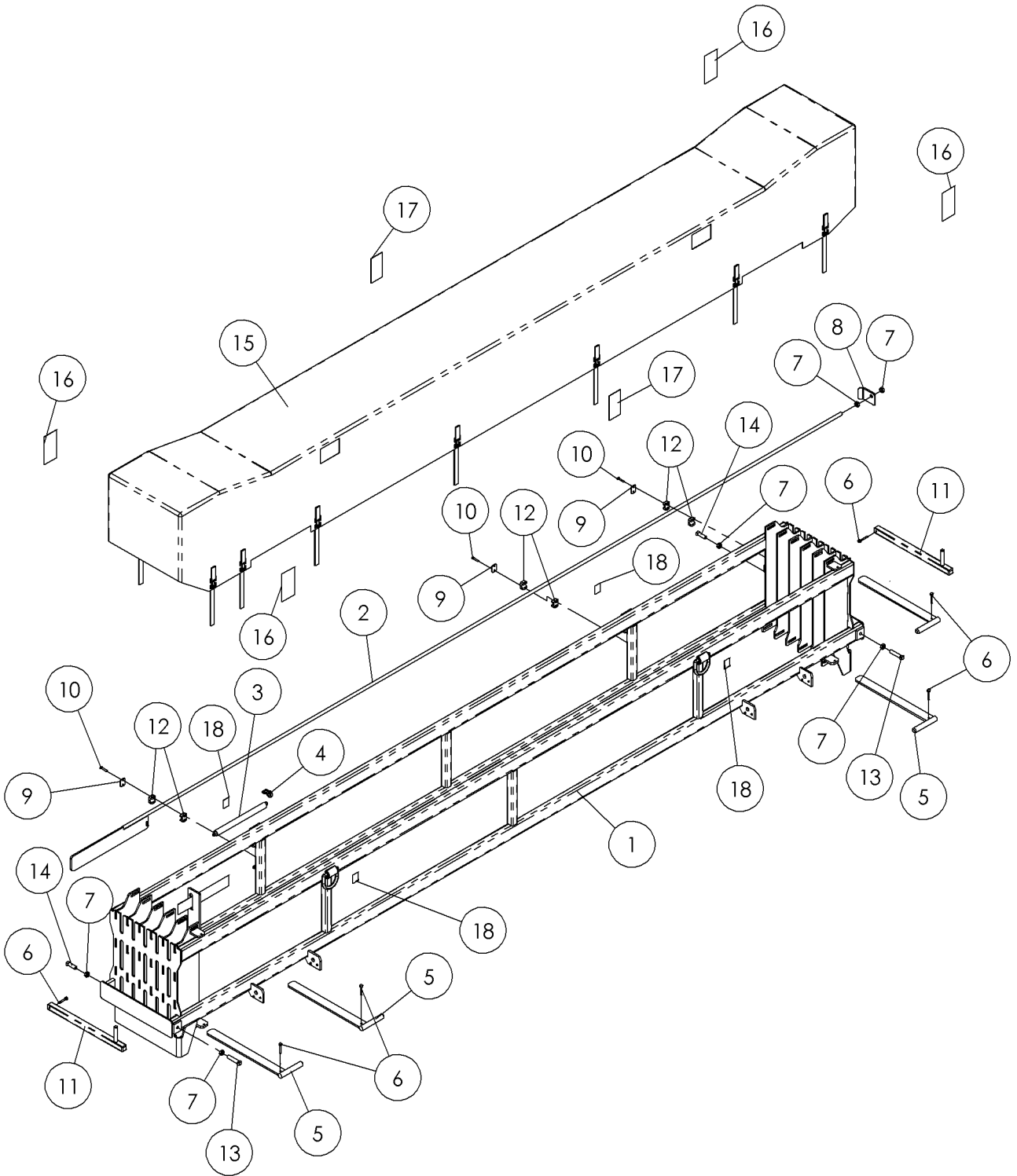
Rod Box - 10' (500 FT.) Fig 7-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280010	WELDMENT - ROD BOX, 500FT	1	
2		296280100	WELDMENT - ROD POSITION MARKER	1	
3		1789001	SPRING-1 1/8ODX15/16ID X 15 EXT REF	1	
4		295529001	MOUNT-ROD INDICATOR SPRING	1	
5		296275471	WELDMENT - FLAT BAR RETAINER	4	
6		2108001	LYNCH PIN - 1/4 X 2	6	
7		250514001	NUT -5/8NC JAM Y/ZINC	6	
8		296280123	PLATE - FLAG STOP	1	
9		296280023	PIN - ROD BOX	2	
10		551030	SQ HSS-5/8-11X3	4	
11		903135005	PLATE-COVER COP-2	3	
12		238210001	BOLT - 1/4-20X1 1/2 GR8 HEX ZYC	6	
13		279817001	CLAMP - HOSE 2180PP	6	
14		296280173	COVER-ROD BOX, 10FT, 5ROW	1	
15		7000A627	DECAL-DANGER	4	Domestic
		700IA627	DECAL-DANGER	4	International
16		70000563	DECAL-WARNING (UND)	4	Domestic
		7000I563	DECAL-WARNING (UND)	4	International
17		7000I445	DECAL-LIFT POINT	4	
18		700IA997	DECAL - GEARBOX POSITION	1	

Rod Box - 15' (600 FT.) Fig 7-8r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296280480	WELDMENT - ROD BOX, 600FT	1	
2		296280168	WELDMENT - ROD POSITION MARKER	1	
3		1789001	SPRING - 1.125" OD X .9375" ID X 15"	1	
4		295529001	WELDMENT - MOUNT ROD INDICATOR SPRING	1	
5		296275471	WELDMENT - FLAT BAR RETAINER	4	
6		2108001	LYNCH PIN - 1/4X2	6	
7		250514001	NUT-HEXJAM-.63-11-GR8-YZ	6	
8		296279747	PLATE - FLAG STOP	1	
9		903135005	PLATE - COVER COP-2	3	
10		238210001	SCREW-HCS-.25-20X1.50-GR8-YZ	6	
11		296280023	PIN - ROD BOX	2	
12		279817001	CLAMP HOSE 2180PP	6	
13		601697030	SQ HSS-5/8-11X3	2	
14		510365820	SCREW-SQSET-.63-11X2.00-YZ-CUP	2	
15		296280171	COVER - ROD BOX, 15FT, 5 ROW	1	
16		7000A627	DECAL - DANGER	4	Domestic
		700IA627	DECAL-DANGER	4	International
17		70000563	DECAL-WARNING	2	Domestic
		7000I563	DECAL-WARNING (UND)	2	International
18		7000I445	DECAL-LIFT POINT	4	
19		700IA997	DECAL - INDICATOR	1	
		296260959	D36X50II 15' LONG ROD BOX W/ DECALS (DOMESTIC)		Inc. Rod Box And Decals
		296287073	D36X50II 15' LONG ROD BOX ASSY - (INT'L)		Inc. Rod Box And Decals

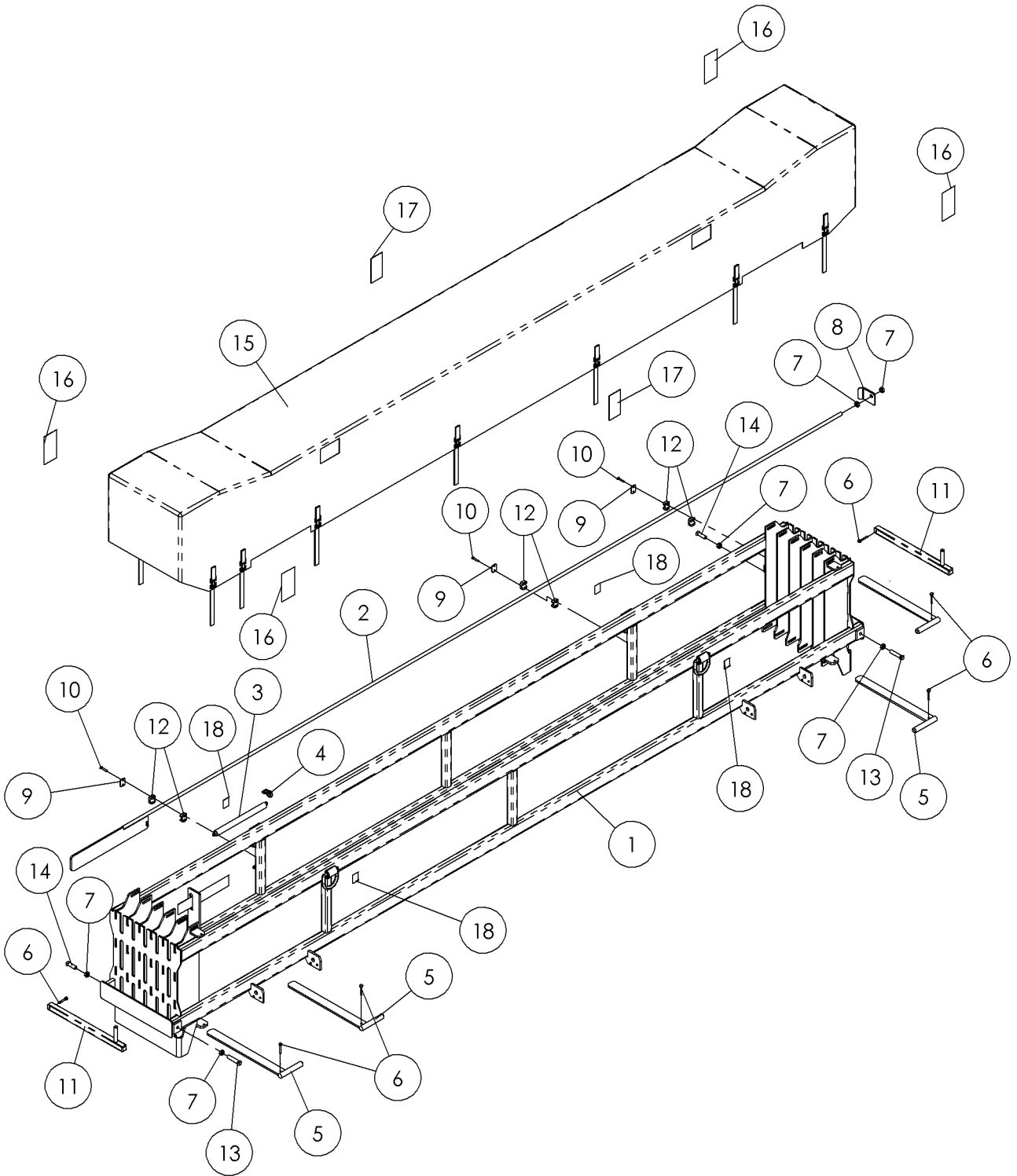
Rod Box - 15' (600 FT.) Fig 7-8r01



Rod Box - 15' (600 FT.) Fig 7-8r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Parts List.
1		296260959	D36X50II 15' LOONG ROD BOX ASSEMBLY	1	Inc. Rod Box And Decals
2		296280168	WELDMENT - ROD POSITION MARKER	1	
3		1789001	SPRING-1 1/8ODX15/16ID X 15 EXT REF	1	
4		295529001	MOUNT-ROD INDICATOR SPRING	1	
5		296275471	WELDMENT - FLAT BAR RETAINER	4	
6		2108001	LYNCH PIN - 1/4 X 2	6	
7		250514001	NUT -5/8NC JAM Y/ZINC	6	
8		296280123	PLATE - FLAG STOP	1	
9		903135005	PLATE-COVER COP-2	3	
10		238210001	BOLT - 1/4-20X1 1/2 GR8 HEX ZYC	6	
11		296280023	PIN - ROD BOX	2	
12		279817001	CLAMP - HOSE 2180PP	6	
13		601697030	SQ HSS-5/8-11X3 ZINC PLT	2	
14		510365820	SCREW-SQSET-.63-11X2.00-YZ-CUP	2	
15		296280171	COVER-ROD BOX, 15FT, 5ROW	1	
16		7000A627	DECAL-DANGER	4	Domestic
		700IA627	DECAL-DANGER	4	International
17		70000563	DECAL-WARNING (UND)	2	Domestic
		7000I563	DECAL-WARNING (UND)	2	International
18		7000I445	DECAL-LIFT POINT	4	
19		700IA997	DECAL - GEARBOX POSITION	1	

Rod Box - 15' (600 FT.) Fig 7-8



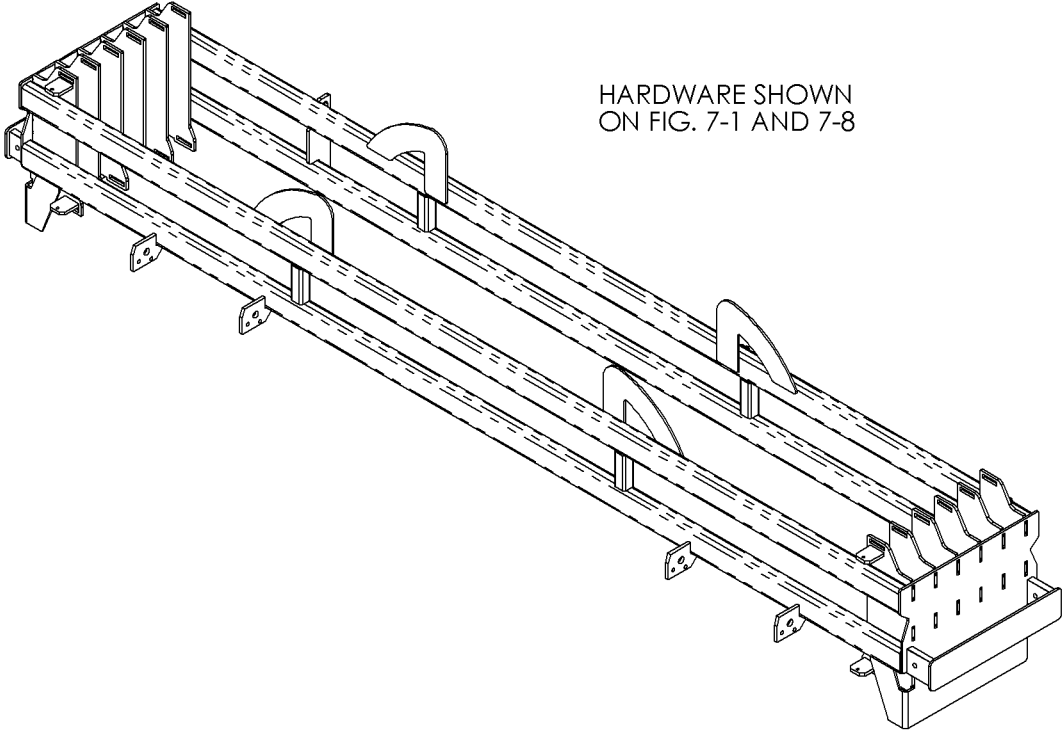
Rod Box - 15' (600 FT.) Fig 7-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280156	WELDMENT - ROD BOX, 600 FT	1	
2		296280168	WELDMENT - ROD POSITION MARKER	1	
3		1789001	SPRING-1 1/8ODX15/16ID X 15 EXT REF	1	
4		295529001	MOUNT-ROD INDICATOR SPRING	1	
5		296275471	WELDMENT - FLAT BAR RETAINER	4	
6		2108001	LYNCH PIN - 1/4 X 2	6	
7		250514001	NUT -5/8NC JAM Y/ZINC	6	
8		296280123	PLATE - FLAG STOP	1	
9		903135005	PLATE-COVER COP-2	3	
10		238210001	BOLT - 1/4-20X1 1/2 GR8 HEX ZYC	6	
11		296280023	PIN - ROD BOX	2	
12		279817001	CLAMP - HOSE 2180PP	6	
13		601697030	SQ HSS-5/8-11X3 ZINC PLT	2	
14		510365820	SCREW-SQSET.63-11X2.00-YZ-CUP	2	
15		296280171	COVER-ROD BOX, 15FT, 5ROW	1	
16		7000A627	DECAL-DANGER	4	Domestic
		700IA627	DECAL-DANGER	4	International
17		70000563	DECAL-WARNING (UND)	2	Domestic
		7000I563	DECAL-WARNING (UND)	2	International
18		7000I445	DECAL-LIFT POINT	4	
19		700IA997	DECAL - GEARBOX POSITION	1	

Rod Box - 15' (300 FT.) Fig 7-9r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296287773	WELDMENT - 300FT. ROD BOX 15'	1	
2		279817001	CLAMP - HOSE 2180PP	6	
3		238210001	BOLT - 1/4-20X1 1/2 GR8 HEX ZYC	6	
4		903135005	PLATE-COVER COP-2	3	
5		601697030	SQ HSS-5/8-11X3 ZINC PLT	2	
6		250514001	NUT -5/8NC JAM Y/ZINC	6	
7		296280023	PIN - ROD BOX	2	
8		2108001	LYNCH PIN - 1/4 X 2	6	
9		296279747	PLATE - FLAG STOP	1	
10		296275471	WELDMENT - FLAT BAR RETAINER	4	
11		295529001	MOUNT-ROD INDICATOR SPRING	1	
12		296280168	WELDMENT - ROD POSITION MARKER	1	
13		1789001	SPRING-1 1/8ODX15/16ID X 15 EXT REF	1	
14		510365820	SCREW-SQSET.63-11X2.00-YZ-CUP	2	
15		296287775	COVER - 300FT. ROD BOX 15'	1	
16		7000A627	DECAL-DANGER	4	Domestic
		700IA627	DECAL-DANGER	4	International
17		70000563	DECAL-WARNING (UND)	4	Domestic
		7000I563	DECAL-WARNING (UND)	4	International
18		7000I445	DECAL-LIFT POINT	4	
19		700IA997	DECAL - GEARBOX POSITION	1	
		296260961	D36X50II 15' SHORT ROD BOX W/ DECALS (DOM)		Inc. Rod Box And Decals
		296287075	D36X50II 15' SHORT ROD BOX ASSY -(INT'L)		Inc. Rod Box And Decals

Rod Box - 15' (300 FT.) Fig 7-9r01

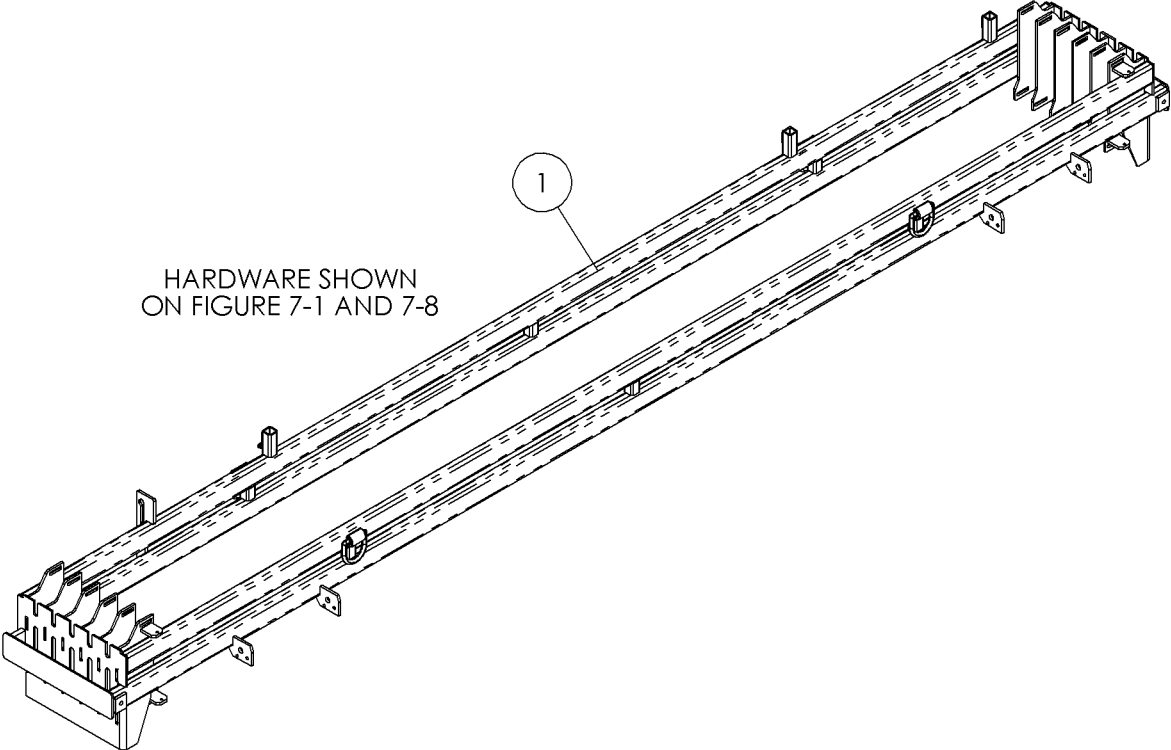


HARDWARE SHOWN
ON FIG. 7-1 AND 7-8

Rod Box - 15' (300 FT.) Fig 7-9r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Parts List.
1		296280498	WELDMENT - SHORT ROD BOX	1	Hardware Shown On Figure 7-1 And 7-8
		296260961	D36X50II 15' SHORT ROD BOX ASSEMBLY		Inc. Rod Box and Decals

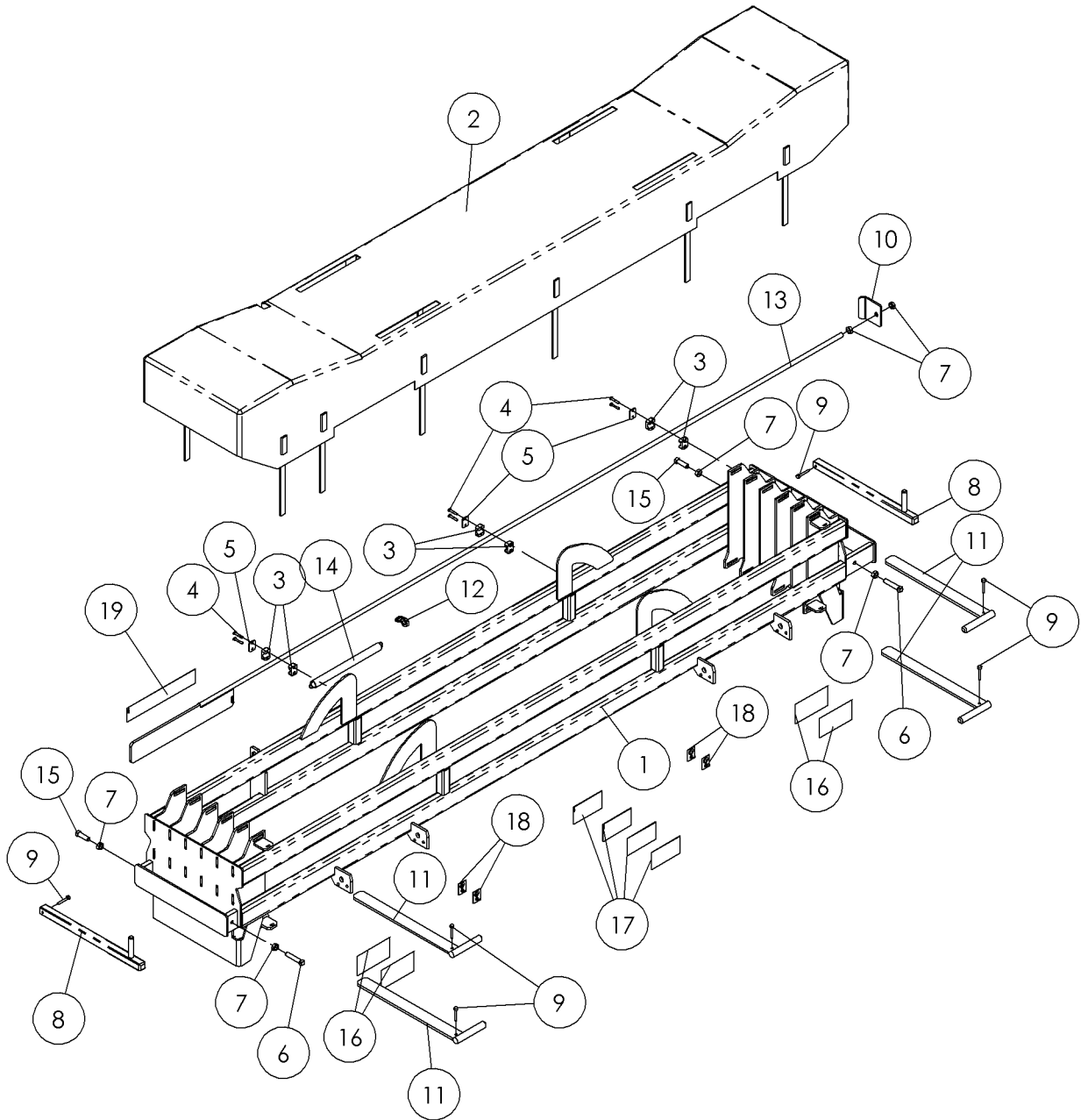
Rod Box - 15' (300 FT.) Fig 7-9



Rod Box - 15' (300 FT.) Fig 7-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280995	ROD BOX ASSY-300'	1	Hardware Shown On Figure 7-1 And 7-8

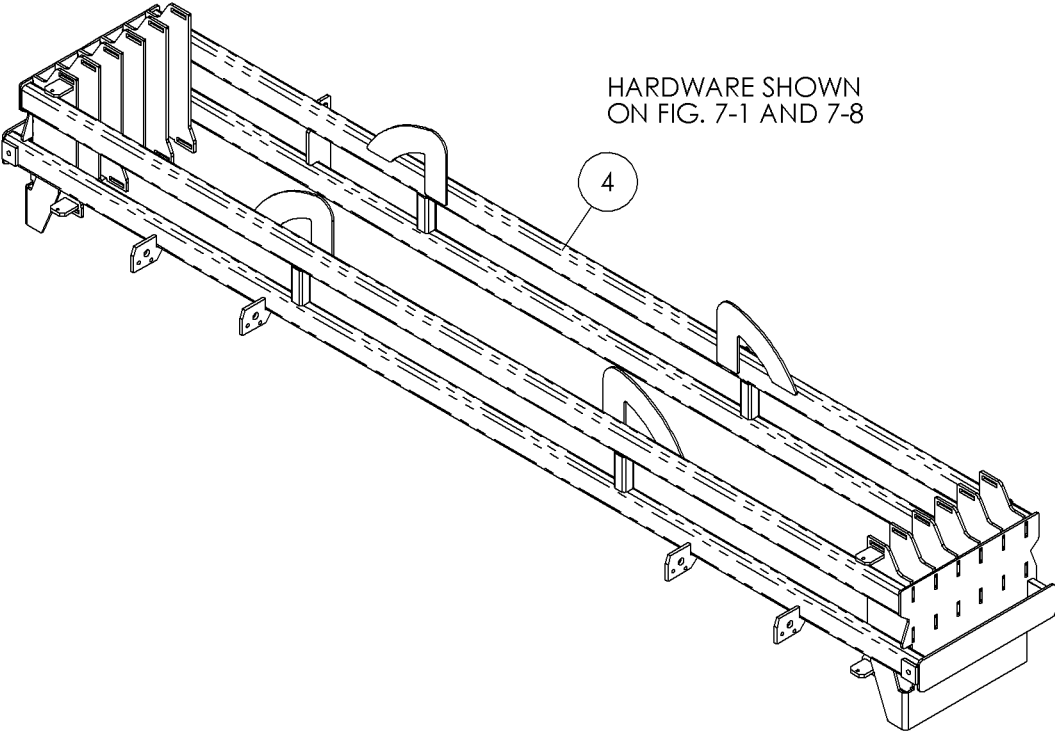
Rod Box - 10' (250 FT.) Fig 7-10r02



Rod Box - 10' (250 FT.) Fig 7-10r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296280498	WELDMENT - SHORT ROD BOX, 15' D36X50II	1	
2		296287778	COVER - 250FT. ROD BOX 10'	1	
3		279817001	CLAMP - HOSE 2180PP	6	
4		238210001	BOLT - 1/4-20X1 1/2 GR8 HEX ZYC	6	
5		903135005	PLATE-COVER COP-2	3	
6		601697030	SQ HSS-5/8-11X3 ZINC PLT	2	
7		250514001	NUT -5/8NC JAM Y/ZINC	6	
8		296280023	PIN - ROD BOX	2	
9		2108001	LYNCH PIN - 1/4 X 2 REF T11609	6	
10		296279747	PLATE - FLAG STOP	1	
11		296275471	WELDMENT - FLAT BAR RETAINER	4	
12		295529001	MOUNT-ROD INDICATOR SPRING	1	
13		296280100	WELDMENT - ROD POSITION MARKER	1	
14		1789001	SPRING-1 1/8ODX15/16ID X 15 EXT REF	1	
15		510365820	SCREW-SQSET-.63-11X2.00-YZ-CUP	2	
16		7000A627	DECAL-DANGER	4	Domestic
		700IA627	DECAL-DANGER	4	International
17		70000563	DECAL-WARNING (UND)	4	Domestic
		7000I563	DECAL-WARNING (UND)	4	International
18		7000I445	DECAL-LIFT POINT	4	
19		700IA997	DECAL - GEARBOX POSITION	1	
		296260960	D36X50II 10' SHORT ROD BOX ASSEMBLY(DOM)		Inc. Rod Box And Domestic Decals
		296287074	D36X50II 10' SHORT ROD BOX ASSY - (INT'L)		Inc. Rod Box And International Decals

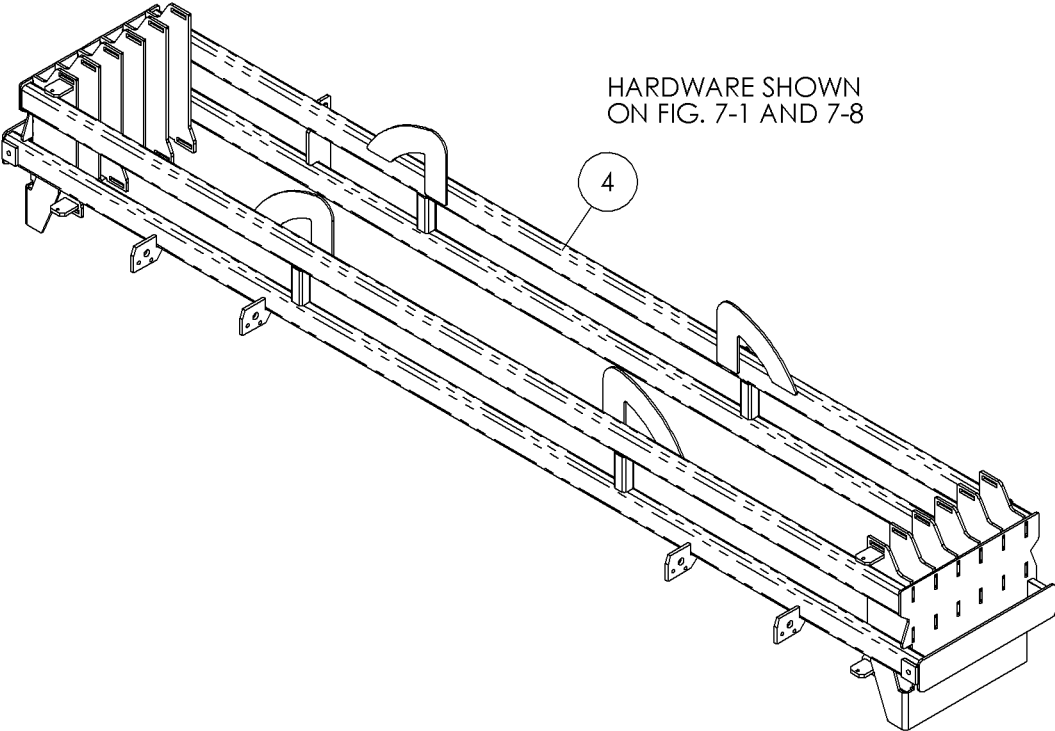
Rod Box - 10' (250 FT.) Fig 7-10r01



Rod Box - 10' (250 FT.) Fig 7-10r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Parts List.
1		296280490	WELDMENT - ROD BOX, 300FT	1	Hardware Shown On Figure 7-1 And 7-8
		296260960	D36X50II 10' SHORT ROD BOX ASSEMBLY		Inc. Rod Box And Decals

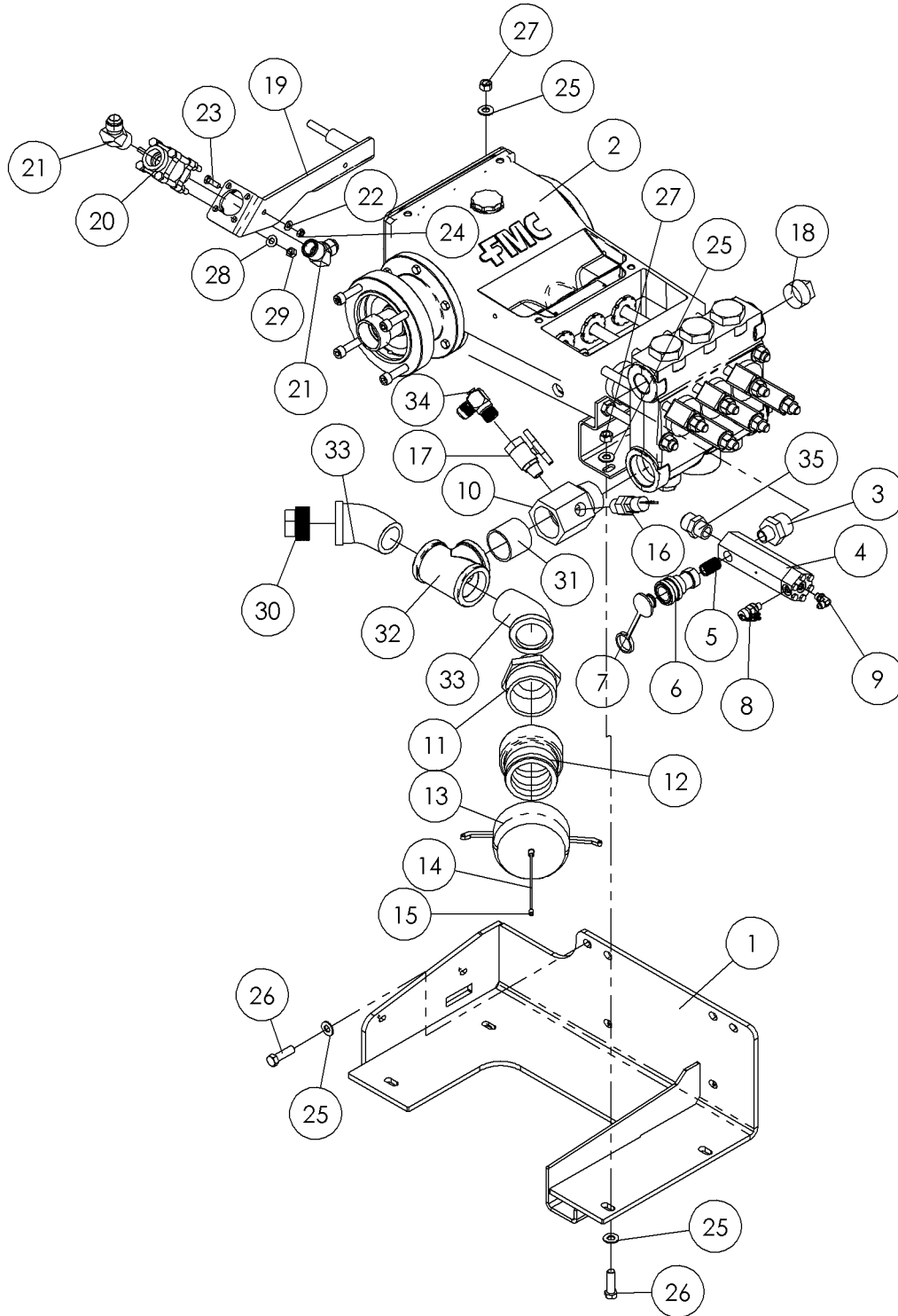
Rod Box - 10' (250 FT.) Fig 7-10



Rod Box - 10' (250 FT.) Fig 7-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280995	ROD BOX ASSY-300'	1	Hardware Shown On Figure 7-1 And 7-8

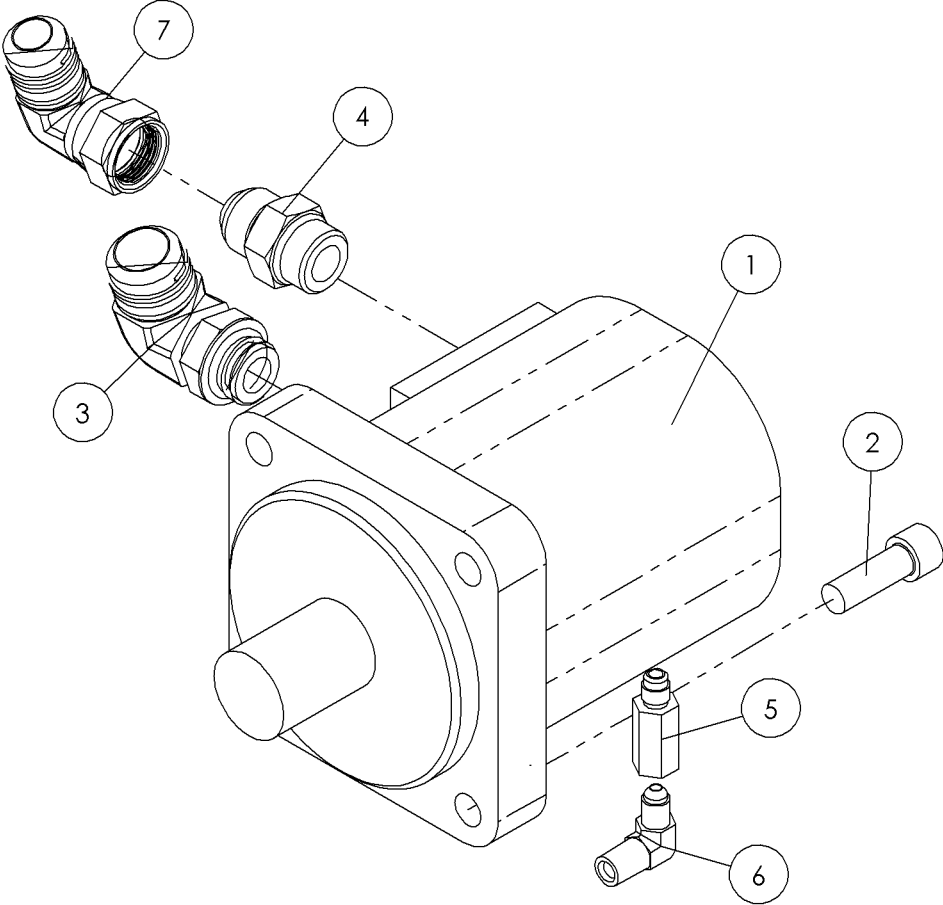
Water Pump - 50 GPM FMC Fig 8-1



Water Pump - 50 GPM FMC Fig 8-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280862	PUMP SUPPORT ASY	1	
2		278951001	PUMP - WATER	1	Breakdown Fig. 11-40
3		278827001	FITTING-1 1/2MNPT X 3/4 MNPT	1	
4		296265854	WATER PRESSURE DUMBELL PISTON MAN.ASSY	1	Breakdown Fig. 11-41
5		707003	1/2" NPT HEX NIPPLE	1	
6		227235001	COUPLER-1/2"NPT QUICK(FEMALE)	1	
7		234679001	CAP-DUST	1	
8		75493001	FITTING - TEST - 4MORB - 16MTP	1	
9		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	1	
10		236472001	FITTING-2"MX3/4"FX2 XCX M NPT TEE	1	
11		221506001	NIPPLE-REDUCING 3X2 MPT (POLY)	1	
12		275759001	COUPLINE-3"MTPT X3" FPT (POLY)	1	
13		215429001	CAP-3" CAM LOCK	1	
14		244069001	CABLE-3/32"X12 XCX NYLON COATED	1	
15		1838001	CONNECTOR-WIRE (ETC)	2	
16		287554001	SWITCH - 10 PSI NO/NC	1	
17		275770001	VALVE - 3/4 MXF BALL W/T-HNDL	1	
18		732015	1 1/2" PIPE PLUG BLACK STEEL	1	
19		296275328	SUPPORT - BALL VALVE	1	
20		278003001	VALVE - 1" 1500 PSI BRASS BALL	1	Breakdown Fig. 11-42
21		60904001	1M NPT X 16M JIC 45 DEG ELBOW	2	
22		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	4	
23		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	2	
24		240333001	NUT-5/16-18 GR8 TL ZINC PLTD	2	
25		485025	WASHER-1/2 FLAT-HARDENED-YZ	14	
26		240334001	BOLT-1/2-13X1 3/4 GR8 ZINC PLT	10	
27		250512001	NUT- 1/2 NC Gr8 TOP LOCK Y/ ZINC	4	
28		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
29		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	4	
30		296258568	FITTING - PLUG - 3/2MNPT - SQ - GALV	2	
31		736015	2" CLOSE NIPPLE BLACK STEEL	1	
32		240673001	TEE-2X2X2 CAST GALVANIZED	1	
33		244118001	FITTING - 45 - 3/2FNPT - 3/2FNPT - CAST - GALV	2	
34		56215001	FITTING-3/4M PIPE-#12M JIC 90	1	
35		81692001	FITTING-3/4M NPTX16M JIC ST.	1	

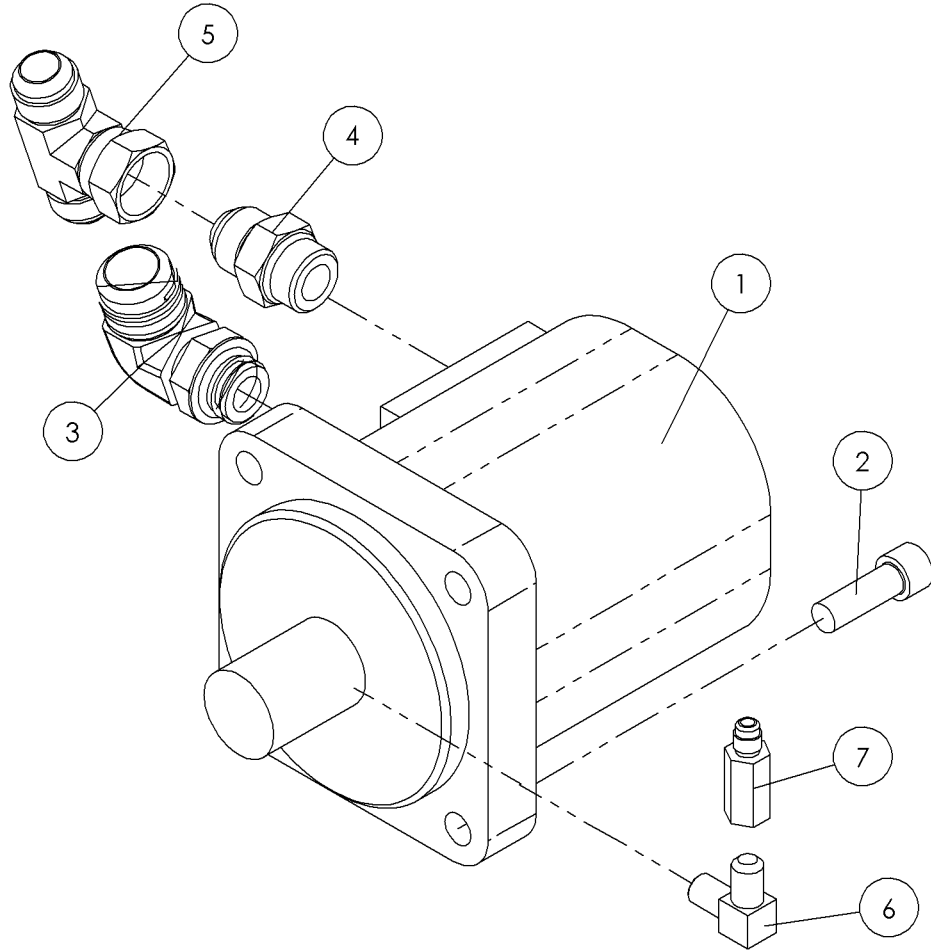
Drive Motor - 50 GPM FMC Fig 8-2r01



Drive Motor - 50 GPM FMC Fig 8-2r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		251106001	MOTOR -12.5 CID 4000 SERIES HY	1	Breakdown Fig. 11-34
2		276402001	SCREW-1/2-13X1 1/2 SHC Y ZINC	4	
3		65571001	12M X 16M JIC 90 DEGREE	1	
4		53828001	#12M O-RING-#12M JIC ST.	1	
5		296257246	VALVE- 4MJICX4FJIC CHECK	1	
6		56647001	FITTING-1/4MX4M JIC 90 DEG. REF 53821-001-1	1	
7		59422001	FITTING-90-12MJ-12FSJ	1	

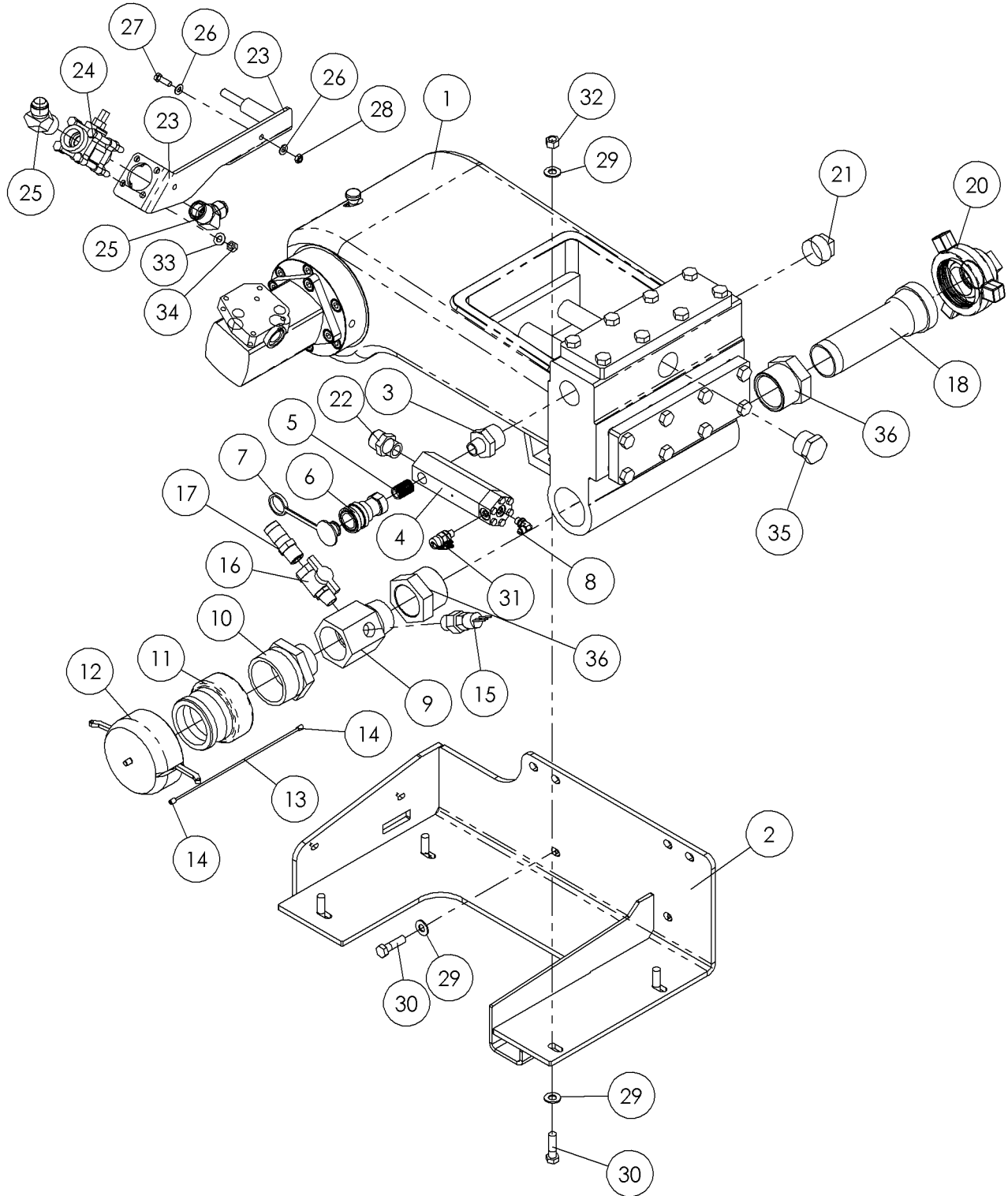
Drive Motor - 50 GPM FMC Fig 8-2



Drive Motor - 50 GPM FMC Fig 8-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		251106001	MOTOR -12.5 CID 4000 SERIES HY	1	Breakdown Fig. 11-34
2		276402001	SCREW-1/2-13X1 1/2 SHC Y ZINC	4	
3		65571001	12M X 16M JIC 90 DEGREE	1	
4		53828001	#12M O-RING-#12M JIC ST.	1	
5		61456001	FITTING-BTEE-12MJ-12MJ-12FSJ	1	
6		68707001	FITTING-1/4MX6M JIC 90 DEG.	1	
7		296257246	VALVE- 4MJICX4FJIC CHECK	1	

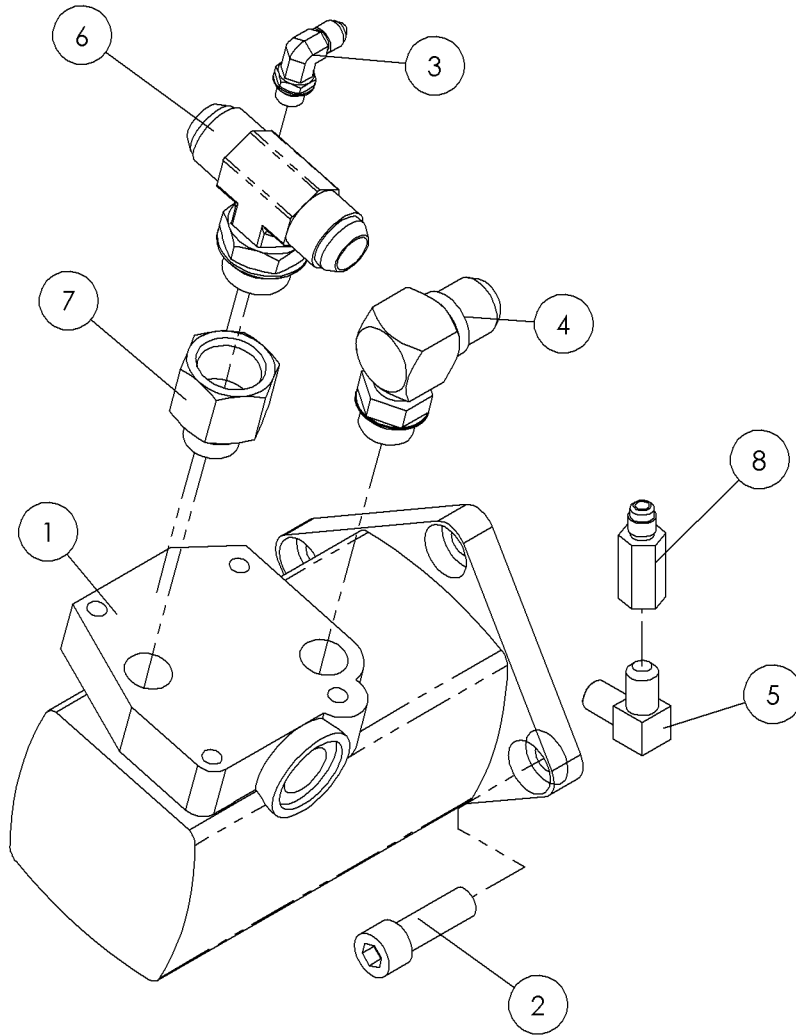
Water Pump - 50 GPM Aplex Fig 8-3



Water Pump - 50 GPM Aplex Fig 8-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296269559	APLEX 50 GPM MUD PUMP	1	Breakdown Fig. 11-43 Thru 11-47
2		296280862	PUMP SUPPORT ASSY	1	
3		278827001	FITTING - 1 1/2MNPT X 3/4 MNPT	1	
4		296265854	ASSEMBLY - WATER PRESSURE DUMBELL PISTON	1	Breakdown Fig. 11-41
5		707003	FITTING-NIPPLE-8MNPT-8MNPT-HEX	1	
6		227235001	COUPLER - 1/2" NPT QUICK(FEMALE)	1	
7		234679001	CAP - DUST	1	
8		59423001	FITTING-90-4MJ-4MORBA	1	
9		236472001	FITTING - 2M X 3/4F X 2FNPT TEE	1	
10		221506001	NIPPLE - REDUCING	1	
11		275759001	COUPLING - 3" MTPT X 3" FPT (POLY)	1	
12		215429001	CAP - 3" CAMLOCK	1	
13		244069001	CABLE - 3/32" X 12" NYLON COATED	1	
14		1838001	CONNECTOR -	2	
15		287554001	SWITCH - 10 PSI NO/NC	1	
16		275770001	VALVE - 3/4 MXF BALL W/T-HNDL	1	
17		905437001	FITTING - 3/4X1" BARB ST. NYLON	1	
18		296280919	FITTING - NIPPLE 2" NPT	1	
19		296259780	UNION - MALE	1	
20		296259782	ASSEMBLY-CAP-2"	1	
21		732015	1 1/2" PIPE PLUG BLACK STEEL	1	
22		81692001	FITTING-3/4M NPT X 16M JIC ST	1	
23		296275328	SUPPORT - BALL VALVE	1	
24		278003001	VALVE - 1" 1500 PSI BRASS BALL	1	Breakdown Fig. 11-42
25		60904001	FITTING - 1MNPT X 16 MJIC 45 DEG.	2	
26		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ-A325	4	
27		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	2	
28		240333001	NUT-5/16-18 GR8 TL ZINC PLTD	2	
29		485025	WASHER-FLATSTRL-.50-.53X1.06-.09-YZ	14	
30		240334001	SCREW-HCS-.50-13X1.75-GR8-YZ	10	
31		75493001	COUPLER - MALE TCM20 - 7/16"UNF-V	1	
32		250512001	NUT-TLHEX-.50-13-C-YZ	4	
33		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	4	
34		235725001	NUT-HEX-.38-16-GR8-YZ	4	
35		120885001	FITTING-PLUG-20MNPT-HEX	1	
36		236015001	FITTING - HEX BUSHING 40MNPT X 32FNPT	2	

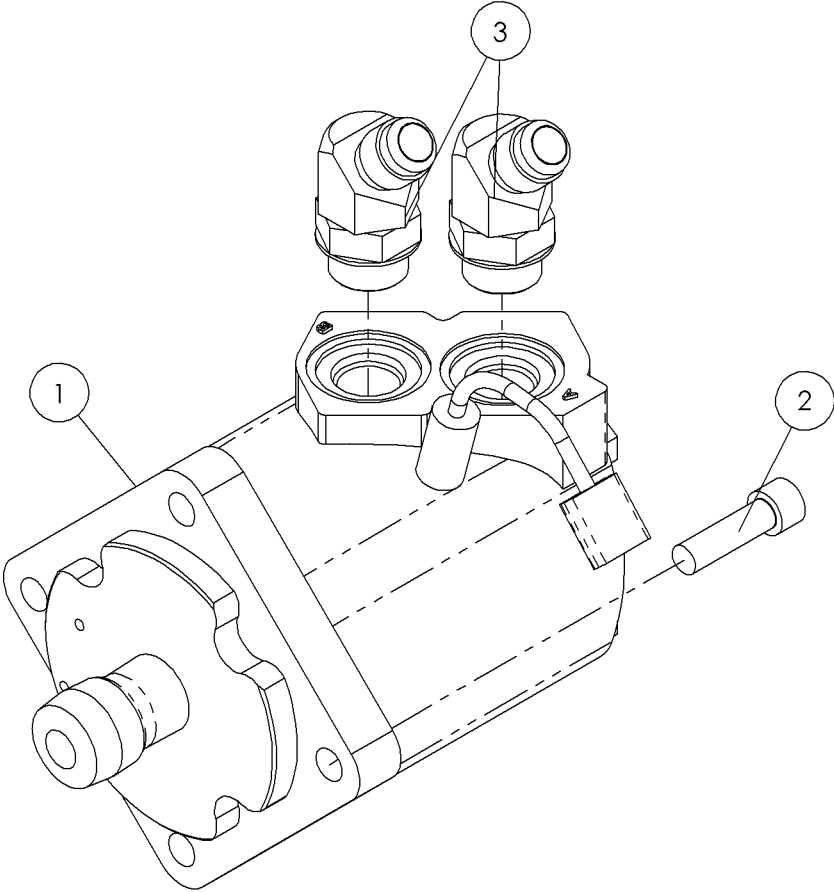
Drive Motor - 50 GPM Aplex Fig 8-4



Drive Motor - 50 GPM Aplex Fig 8-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		275996001	MOTOR - HYD. (EATON) 2 SP.	1	Breakdown Fig. 11-36
2		514014	1/2-13X1 1/2" SOCKET HEAD BOLT	4	
3		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	1	
4		53871001	#10M O-RING X 12M JIC 90	1	
5		68707001	FITTING-1/4MX6M JIC 90 DEG.	1	
6		70032001	12M BCH X 12M JICX12M JIC TEE	1	
7		119167001	FITTING-10M X 12F ST. ADAPTER	1	
8		296257246	VALVE- 4MJICX4FJIC CHECK	1	

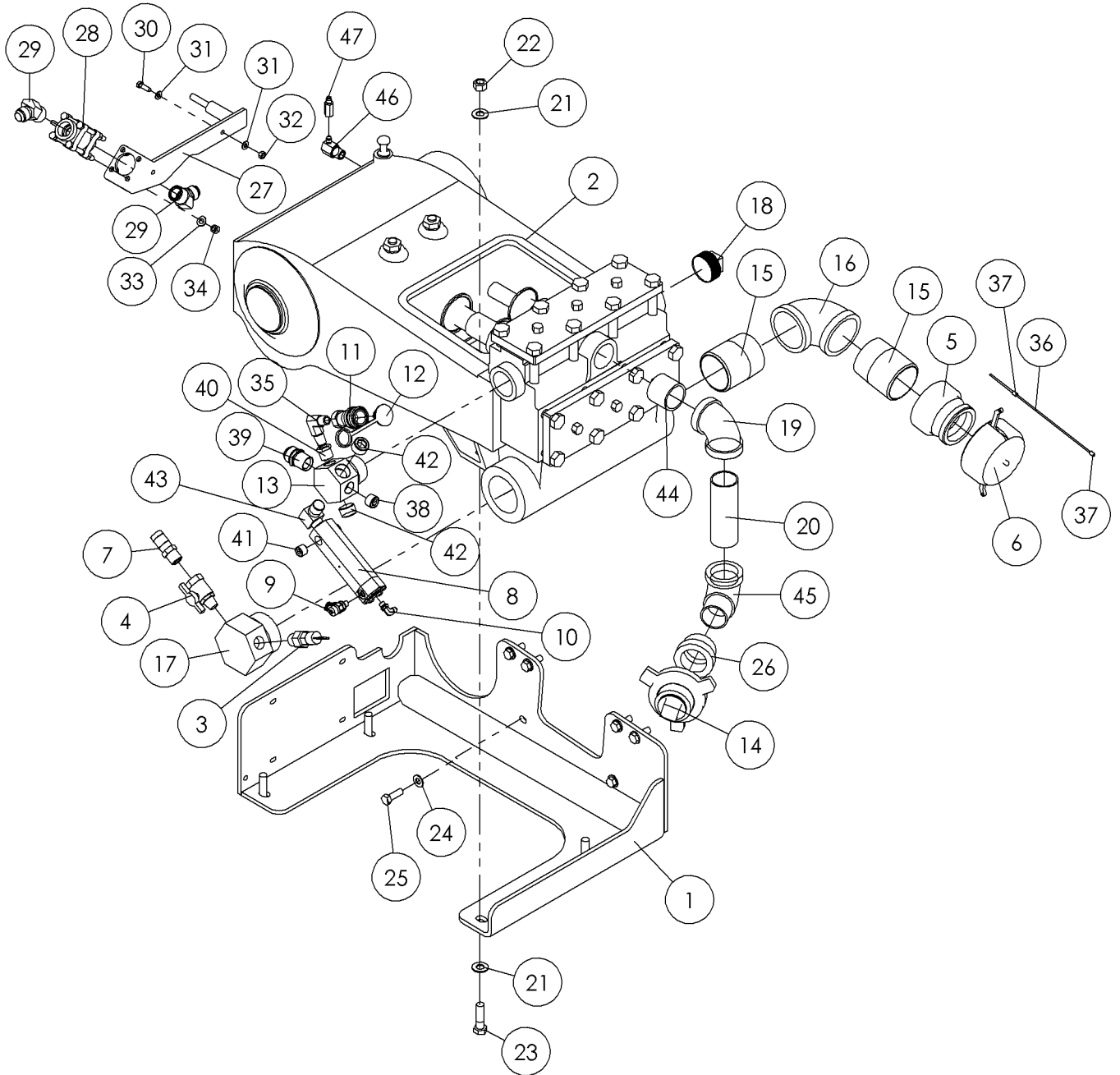
Drive Motor - 70 GPM Aplex Fig 8-5



Drive Motor - 70 GPM Aplex Fig 8-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296284063	MOTOR - BEARINGLESS 19 CID	1	Breakdown Fig. 11-35
2		229144001	SCREW-SHCS-.50-13X1.75-GR8-PLN	4	
3		129482001	FIT-12MJICX16MO'RING45DEG MACH	2	

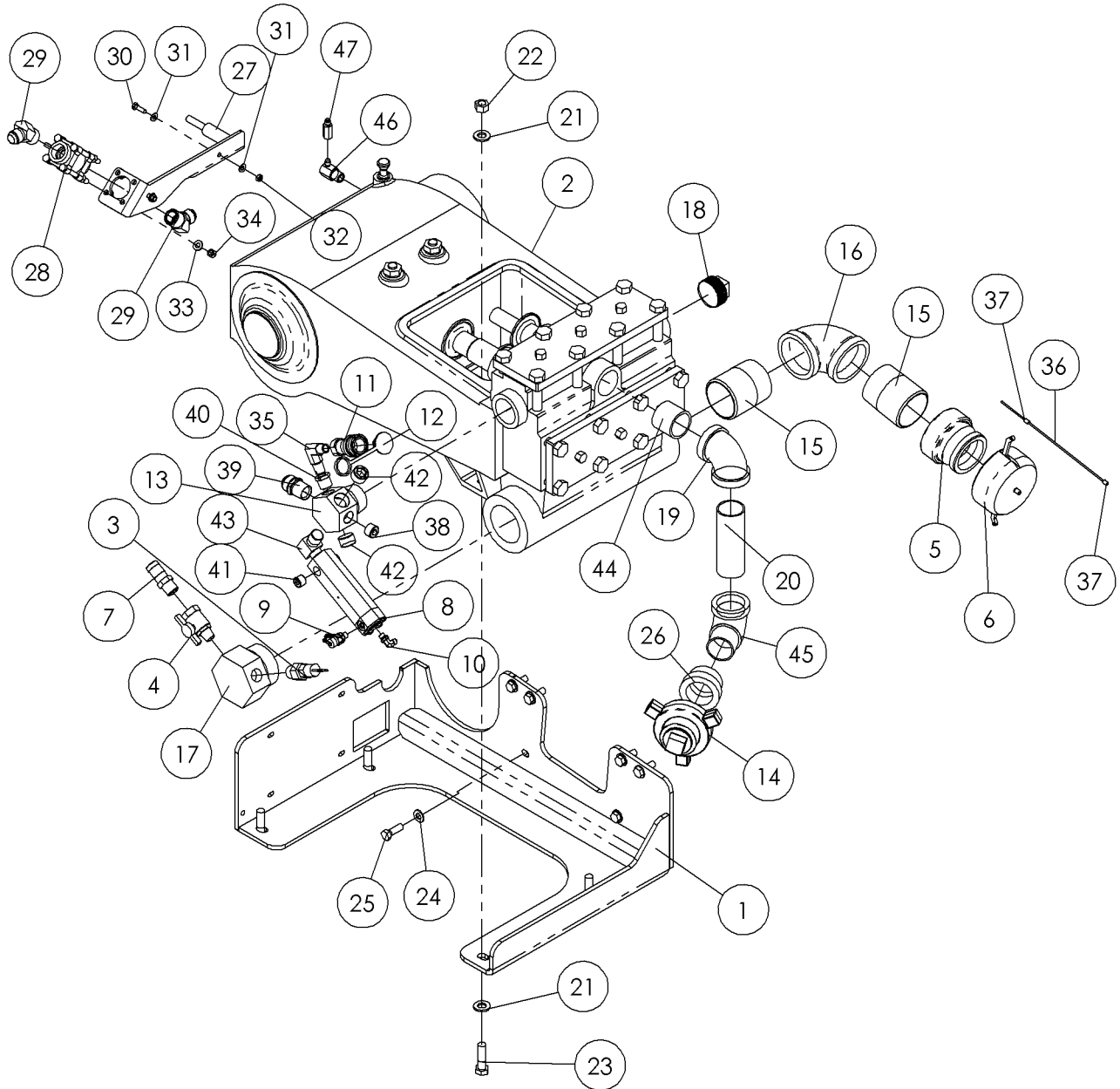
Water Pump - 70 GPM Apex Fig 8-6r02



Water Pump - 70 GPM Apex Fig 8-6r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279880	PUMP SUPPORT	1	
2		296279957	MUD PUMP - 70 GPM	1	Breakdown Fig. 11-48 Thru 11-52
3		287554001	SWITCH - 10 PSI NO/NC	1	
4		275770001	VALVE - 3/4 MXF BALL W/T-HNDL	1	
5		275759001	COUPLINE-3"MTPT X3" FPT (POLY)	1	
6		215429001	CAP-3" CAM LOCK *	1	
7		905437001	FITTING-3/4X1 BARB ST.NYLON	1	
8		296265854	WATER PRESSURE DUMBELL PISTON MAN.ASSY	1	Breakdown Fig. 11-41
9		75493001	FITTING - TEST - 4MORB - 16MTP	1	
10		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	1	
11		227235001	COUPLER-1/2"NPT QUICK(FEMALE)	1	
12		234679001	CAP-DUST	1	
13		296280198	FITTING - REDUCER 90, 2" MNPT 3/4 FNPT	1	
14		296259782	ASSY-CAP-2.00"-HYD-HAMMER	1	
15		296280248	FITTING - 3" X CL GALV NIPPLE	2	
16		296280200	FITTING-3"FNPT-3"FNPT-90 DEG. GAL.	1	
17		296280201	FITTING - REDUCER 90, 3" MNPT 3/4 FNPT H	1	
18		296258568	FITTING - PLUG - 3/2MNPT - SQ - GALV	1	
19		240676001	ELBOW-90 DEG 2" CAST GALV	1	
20		296280249	FITTING - 2" X 6" GALV NIPPLE	1	
21		235715001	WASHER-FLATSTRL-5/8" YZ A325	8	
22		250526001	NUT - 5/8-18 NF HEX Y/ZINC	4	
23		238245001	BOLT 5/8" - 11 X 2 1/4 Gr 8 HEX	4	
24		235712001	WASHER-1/2 SAE HARD ZINC PLTD - Replaced by 485025	6	
25		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	6	
26		296259780	UNION - MALE	1	
27		296275328	SUPPORT - BALL VALVE	1	
28		278003001	VALVE - 1" 1500 PSI BRASS BALL	1	Breakdown Fig. 11-42
29		60904001	1M NPT X 16M JIC 45 DEG ELBOW	2	
30		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	2	
31		235714001	WASHER-FLAT-.31-.34X.69-.06-YZ-A325	4	
32		240333001	NUT-5/16-18 GR8 TL ZINC PLTD	2	
33		235713001	WASHER-FLAT-.38-.41X.81-.06-YA-A325	4	
34		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	4	
35		904831001	FITTING 1/2MNPT X 1/2MNPT 90	1	
36		244069001	CABLE-3/32"X12 XCX NYLON COATED	1	
37		1838001	CONNECTOR-WIRE (ETC)	2	
38		735001	3/4" COUNTERSUNK PIPE PLUG	2	
39		59269001	1 NPTX16 JIC ST ADAPTER	1	
40		730011	3/4"X1/2" HEX BSHG STEEL ZNC PLTD	1	
41		735003	1/2 COUNTERSUNK PIPE PLUG	1	
42		296280228	FITTING - PLUG 16 MNPT - SCKT	2	
43		123645001	FITTING-3/4NPT M ELBOW 5500-12	1	
44		240674001	NIPPLE-2" NPT CLOSE GALVANIZD	1	
45		240671001	ELBOW-90 DEG 2" CAST FALV ST	1	
46		54386001	1/2M PIPEX#4M JIC 90 DEG EL	1	
47		296257246	VALVE- 4MJICX4FJIC CHECK	1	

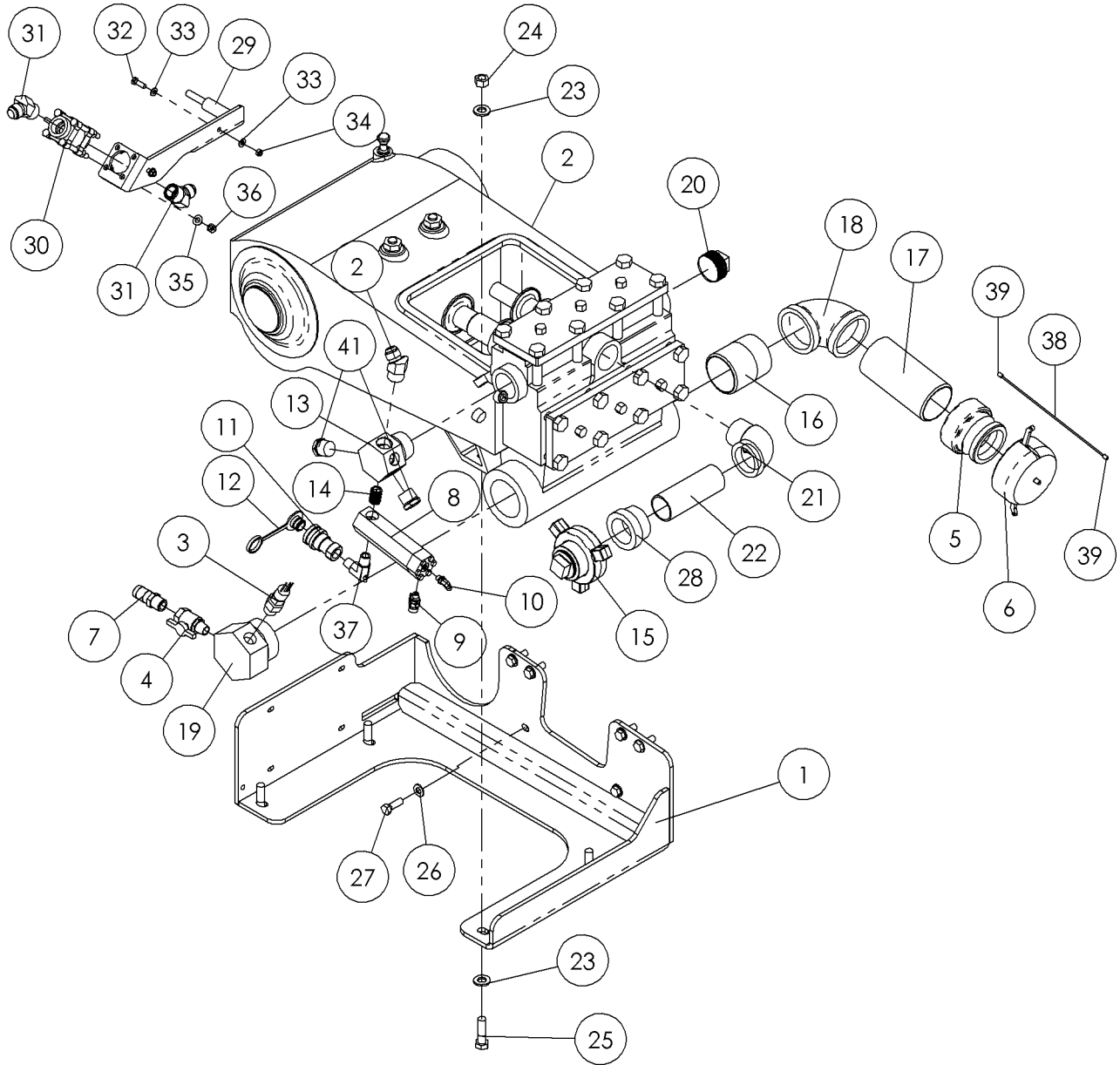
Water Pump - 70 GPM Apex Fig 8-6r01



Water Pump - 70 GPM Apex Fig 8-6r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279880	PUMP SUPPORT	1	
2		296279957	MUD PUMP - 70 GPM	1	Breakdown Fig. 11-48 Thru 11-52
3		287554001	SWITCH - 10 PSI NO/NC	1	
4		275770001	VALVE - 3/4 MXF BALL W/T-HNDL	1	
5		275759001	COUPLINE-3"MTPT X3" FPT (POLY)	1	
6		215429001	CAP-3" CAM LOCK *	1	
7		905437001	FITTING-3/4X1 BARB ST.NYLON	1	
8		296265854	WATER PRESSURE DUMBELL PISTON MAN.ASSY	1	Breakdown Fig. 11-41
9		75493001	FITTING - TEST - 4MORB - 16MTP	1	
10		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	1	
11		227235001	COUPLER-1/2"NPT QUICK(FEMALE)	1	
12		234679001	CAP-DUST	1	
13		296280198	FITTING - REDUCER 90, 2" MNPT 3/4 FNPT	1	
14		296259782	ASSY-CAP-2.00"-HYD-HAMMER	1	
15		286239001	NIPPLE, 3" NPT X 4"	2	
16		296280200	FITTING-3"FNPT-3"FNPT-90 DEG. GAL.	1	
17		296280201	FITTING - REDUCER 90, 3" MNPT 3/4 FNPT H	1	
18		296258568	FITTING - PLUG - 3/2MNPT - SQ - GALV	1	
19		240676001	ELBOW-90 DEG 2" CAST GALV	1	
20		276859001	FITTING - 2" X 6.0 NIPPLE	1	
21		235715001	WASHER-5/8 SAE HARD ZINC PLTD	8	
22		250526001	NUT - 5/8-18 NF HEX Y/ZINC	4	
23		238245001	BOLT 5/8" - 11 X 2 1/4 Gr 8 HEX	4	
24		235712001	WASHER-1/2 SAE HARD ZINC PLTD - Replaced by 485025	6	
25		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	6	
26		296259780	UNION - MALE	1	
27		296275328	SUPPORT - BALL VALVE	1	
28		278003001	VALVE - 1" 1500 PSI BRASS BALL	1	Breakdown Fig. 11--42
29		60904001	1M NPT X 16M JIC 45 DEG ELBOW	2	
30		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	2	
31		235714001	WASHER-FLAT-.31-34X.69-06-YZ-A325	4	
32		240333001	NUT-5/16-18 GR8 TL ZINC PLTD	2	
33		235713001	WASHER-FLAT-.38-.41X.81-.06-YA-A325	4	
34		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	4	
35		904831001	FITTING 1/2MNPT X 1/2MNPT 90	1	
36		244069001	CABLE-3/32"X12 XCX NYLON COATED	1	
37		1838001	CONNECTOR-WIRE (ETC)	2	
38		735001	3/4" COUNTERSUNK PIPE PLUG	2	
39		59269001	1 NPTX16 JIC ST ADAPTER	1	
40		730011	3/4"X1/2" HEX BSHG STEEL ZNC PLTD	1	
41		735003	1/2 COUNTERSUNK PIPE PLUG	1	
42		296280228	FITTING - PLUG 16 MNPT - SCKT	2	
43		123645001	FITTING-3/4NPT M ELBOW 5500-12	1	
44		240674001	NIPPLE-2" NPT CLOSE GALVANIZD	1	
45		240671001	ELBOW-90 DEG 2" CAST FALV ST	1	
46		54386001	1/2M PIPEX#4M JIC 90 DEG EL	1	
47		296257246	VALVE- 4MJICX4FJIC CHECK	1	

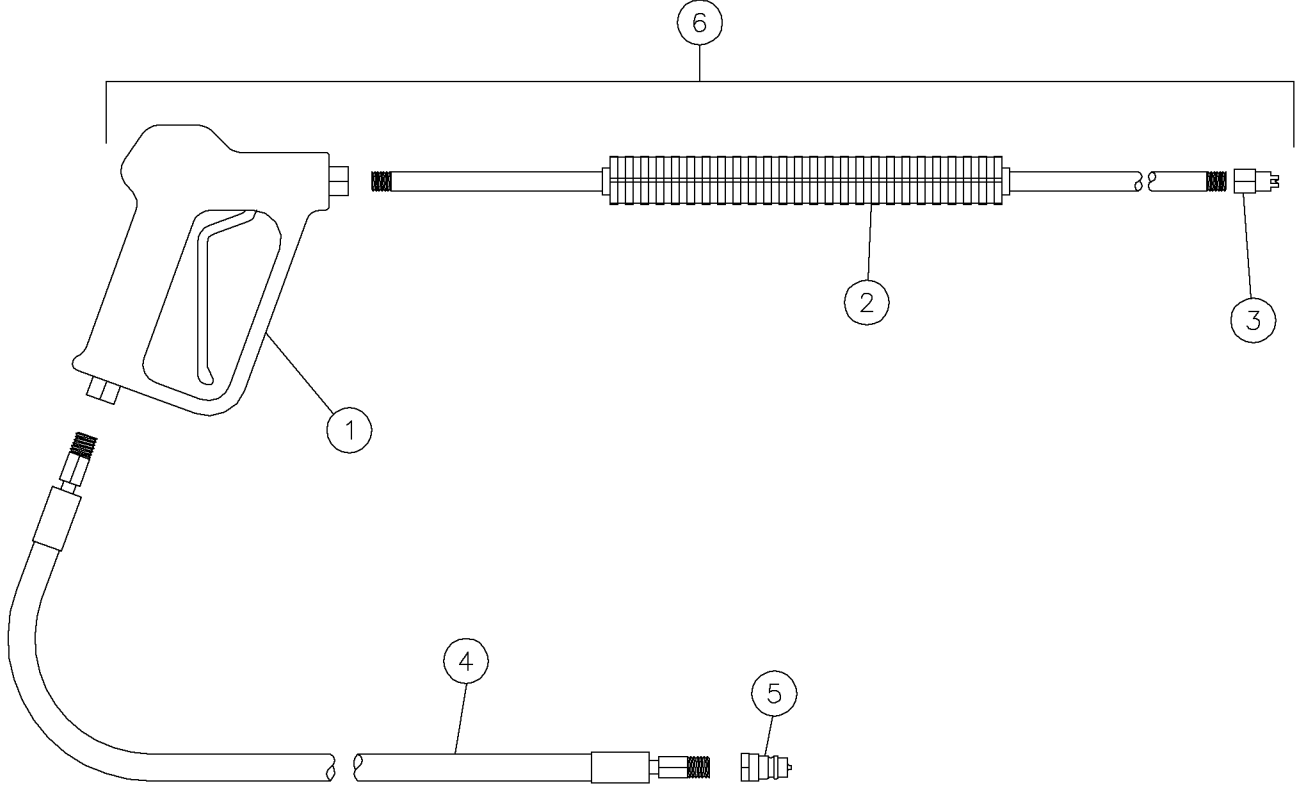
Water Pump - 70 GPM Aplex Fig 8-6



Water Pump - 70 GPM Apex Fig 8-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279880	PUMP SUPPORT	1	Breakdown Fig. 11-48-11-52
2		296279957	MUD PUMP - 70 GPM	1	
3		287554001	SWITCH - 10 PSI NO/NC	1	
4		275770001	VALVE - 3/4 MXF BALL W/T-HNDL	1	
5		275759001	COUPLINE-3"MTPT X3" FPT (POLY)	1	
6		215429001	CAP-3" CAM LOCK	1	
7		905437001	FITTING-3/4X1 BARB ST.NYLON	1	
8		296265854	WATER PRESSURE DUMBELL PISTON MAN.ASSY	1	Breakdown Fig. 11-41
9		75493001	FITTING - TEST - 4MORB - 16MTP	1	
10		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	1	
11		227235001	COUPLER-1/2"NPT QUICK(FEMALE)	1	
12		234679001	CAP-DUST	1	
13		296280198	FITTING - REDUCER 90, 2" MNPT 3/4 FNPT	1	
14		707003	1/2" NPT HEX NIPPLE	1	
15		296259782	ASSY-CAP-2.00"-HYD-HAMMER	1	
16		286239001	NIPPLE, 3" NPT X 4"	1	
17		296258799	NIPPLE, 3" NPT	1	
18		296280200	FITTING-3"FNPT-3"FNPT-90 DEG. GAL.	1	
19		296280201	FITTING - REDUCER 90, 3" MNPT 3/4 FNPT H	1	
20		296258568	FITTING - PLUG - 3/2MNPT - SQ - GALV	1	
21		240671001	ELBOW-90 DEG 2" CAST FALV ST	1	
22		276859001	FITTING - 2" X 6.0 NIPPLE	1	
23		235715001	WASHER-5/8 SAE HARD ZINC PLTD	8	
24		250526001	NUT - 5/8-18 NF HEX Y/ZINC	4	
25		238245001	BOLT 5/8" - 11 X 2 1/4 Gr 8 HEX	4	
26		235712001	WASHER-1/2 SAE HARD ZINC PLTD - Replaced by 485025	6	
27		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	6	
28		296259780	UNION - MALE	1	
29		296275328	SUPPORT - BALL VALVE	1	
30		278003001	VALVE - 1" 1500 PSI BRASS BALL	1	Breakdown Fig. 11-42
31		60904001	1M NPT X 16M JIC 45 DEG ELBOW	3	
32		238209001	BOLT-5/16-18X1 GR8 HEX ZINC YC	2	
33		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	4	
34		240333001	NUT-5/16-18 GR8 TL ZINC PLTD	2	
35		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
36		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	4	
37		904831001	FITTING 1/2MNPT X 1/2MNPT 90	1	
38		244069001	CABLE-3/32"X12 XCX NYLON COATED	1	
39		1838001	CONNECTOR-WIRE (ETC)	2	
40		735001	3/4" COUNTERSUNK PIPE PLUG	3	
41		73120001	FITTING-1"HEX HEAD PIPE PLUG	2	

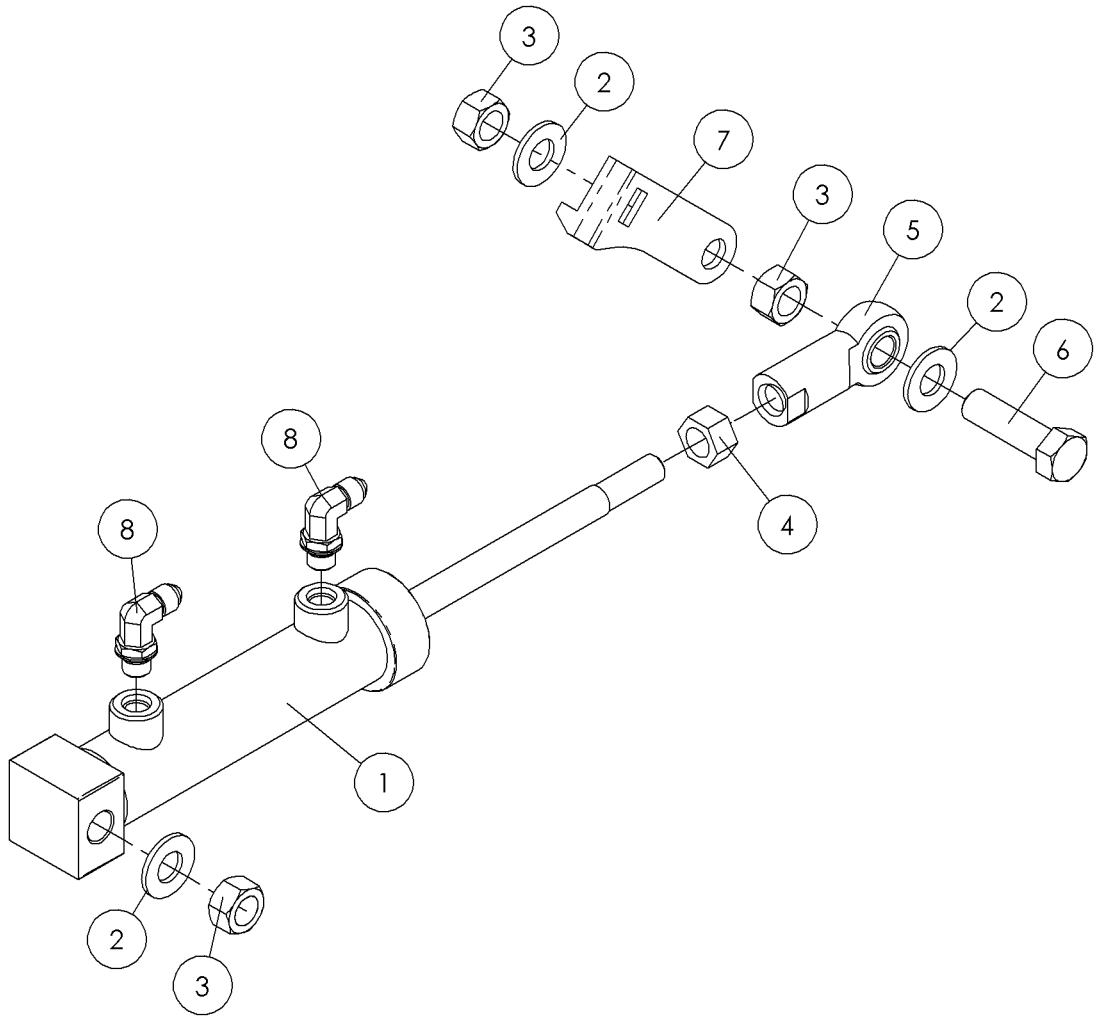
Wash Wand Fig 8-7



Wash Wand Fig 8-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		904578001	GUN HANDLE	1	
2		904577001	MOLDED LANCE	1	
3		904576001	SPRAY NOZZLE	1	
4		282761001	HOSE-3/8X500 3/8MSNPT/1/2MNPT 100R2	1	
5		227236001	COUPLER-1/2" NPT QUICK(MALE)	1	
6		285927001	GUN ASSY	1	
		240264001	WAND ASSY	1	Inc. All Items in Figure

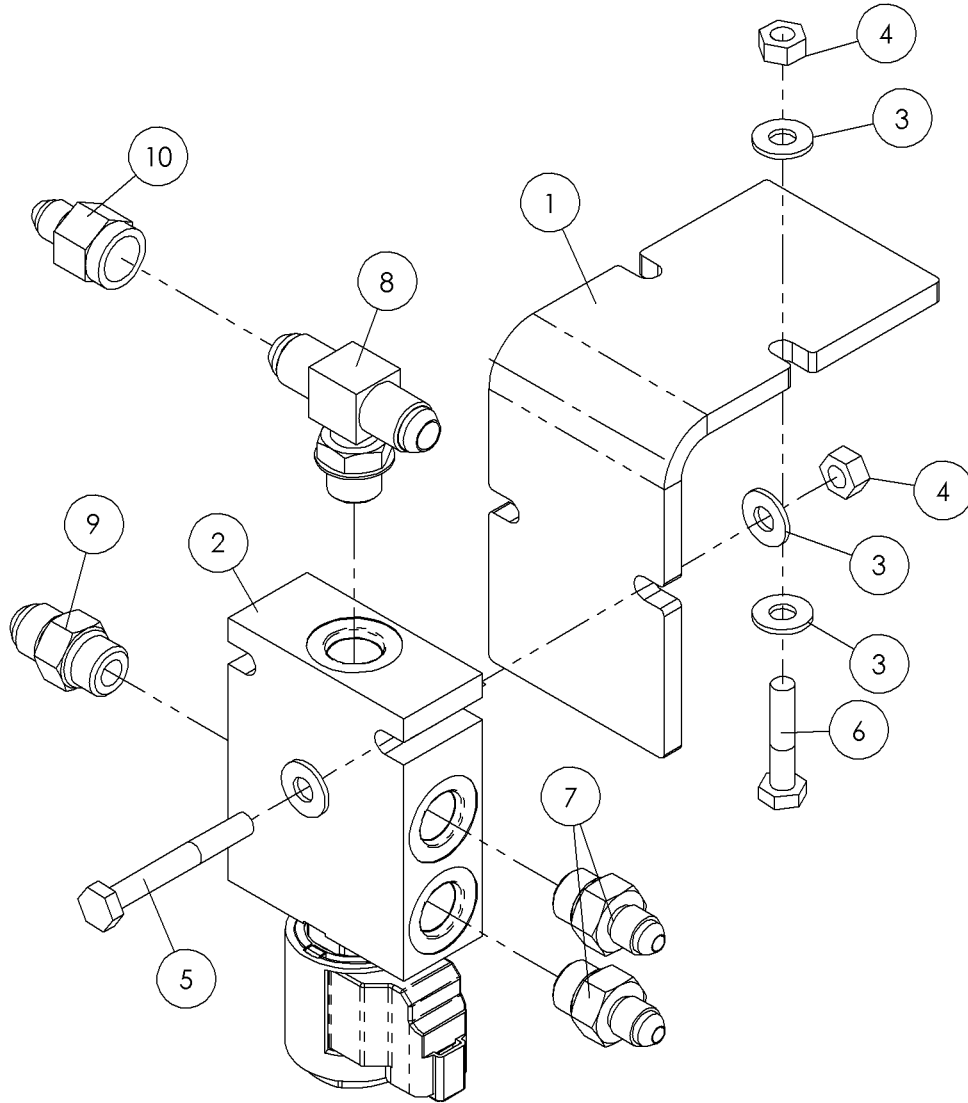
Cylinder - Water Shut-Off Fig 8-8



Cylinder - Water Shut-Off Fig 8-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		287591001	CYLINDER - 1 X 3-1/2	1	Breakdown 11-20
2		485025	WASHER-1/2 FLAT-HARDENED-YZ	3	
3		250512001	NUT- 1/2 NC Gr8 TOP LOCK Y/ ZINC	3	
4		451001	NUT-1/2 N.F. HEX	1	
5		224291001	BALL JOINT-1/2-20 FEMALE THDS.	1	
6		240334001	BOLT-1/2-13X1 3/4 GR8 ZINC PLT	1	
7		296275324	ARM - LEVER	1	
8		59423001	FIT-4M JICX4M ADJ.90 DEG.ELBOW	2	

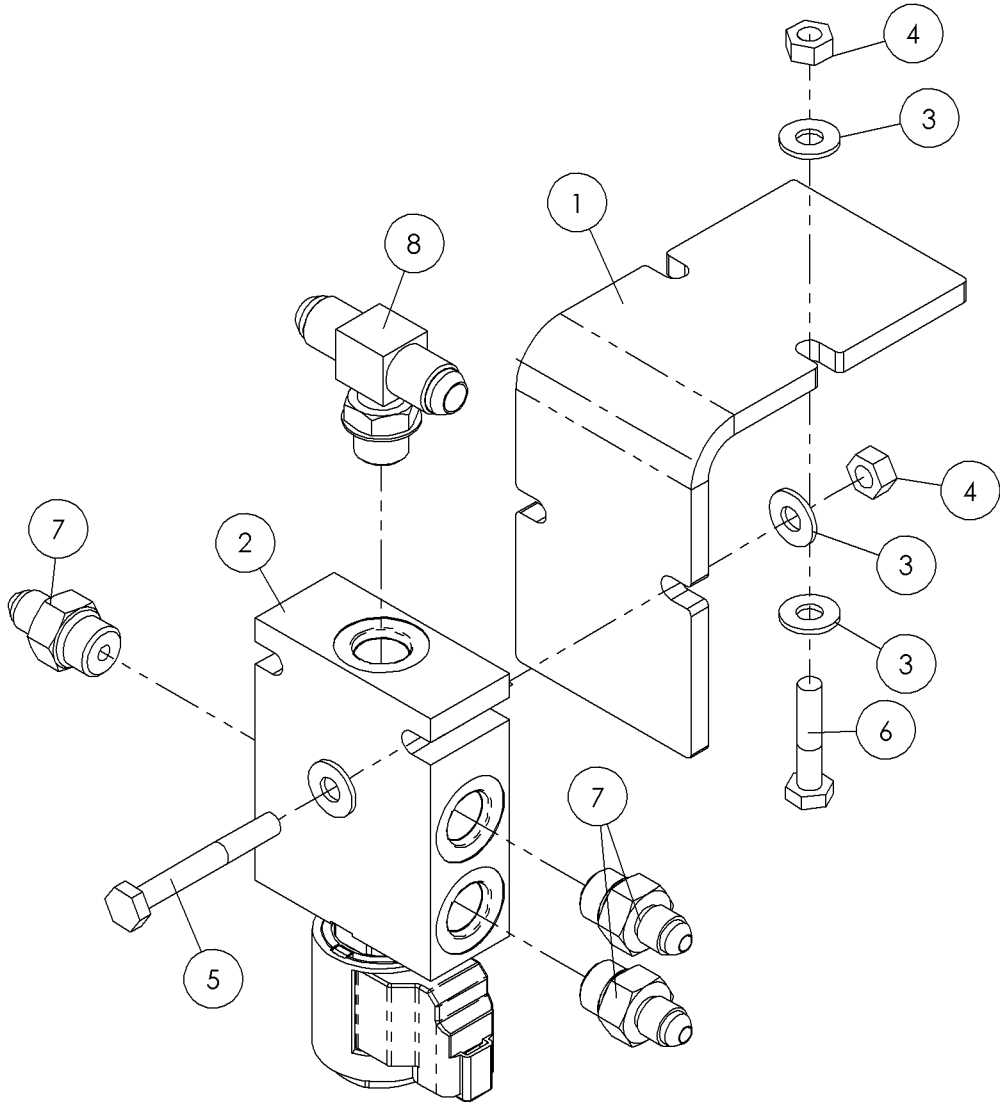
Water Valve Fig 8-9r01



Water Valve Fig 8-9r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296280975	BRACKET - VALVE MOUNT	1	
2		294901001	VALVE - GREASER	1	Breakdown Fi. 11-8
3		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	8	
4		248198001	NUT-1/4 - 20 GR8 TOP LOCK ZINC	4	
5		248197001	BOLT-1/4-20X2 GR.8 ZINC PLTD	2	
6		250008001	BOLT 1/4-20 X 1 1/4 ZINC PL	2	
7		57968001	FITTING-STR-4MJ-6MORB	2	
8		68787001	FITTING-6M (BCH)X6M JICX6M JIC	1	
9		65565001	FITTING - 6M O-RING X 6M JIC ST.	1	
10		59928001	6F JICX4M JIC ST REDUCER	1	

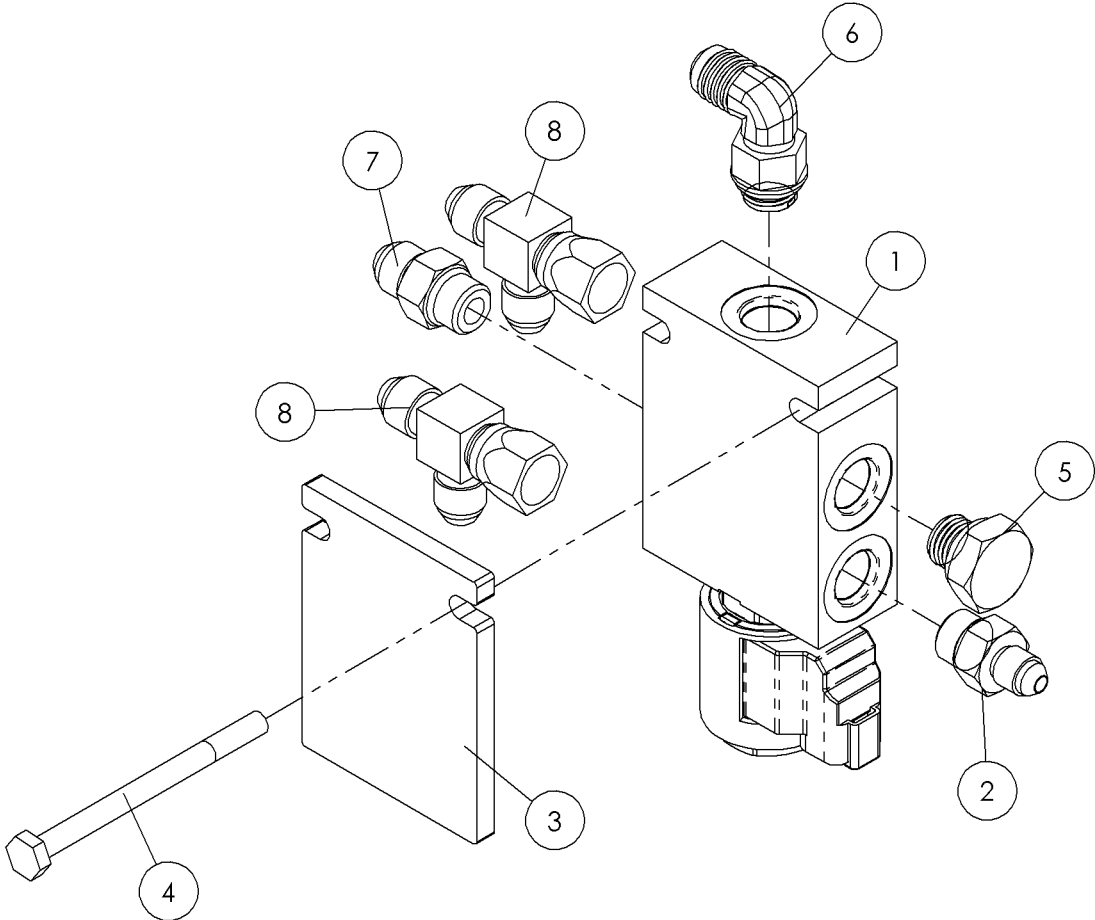
Water Valve Fig 8-9



Water Valve Fig 8-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280975	BRACKET - VALVE MOUNT	1	
2		294901001	VALVE - GREASER	1	Breakdown Fig. 11-8
3		235716001	WASHER - FLATSTRL - .25 - .28 X .63 - .06 - CZ	8	
4		248198001	NUT-1/4 - 20 GR8 TOP LOCK ZINC	4	
5		248197001	BOLT-1/4-20X2 GR.8 ZINC PLTD	2	
6		250008001	BOLT 1/4-20 X 1 1/4 ZINC PL	2	
7		57968001	FITTING-STR-4MJ-6MORB	3	
8		68787001	FITTING-6M (BCH)X6M JICX6M JIC	1	

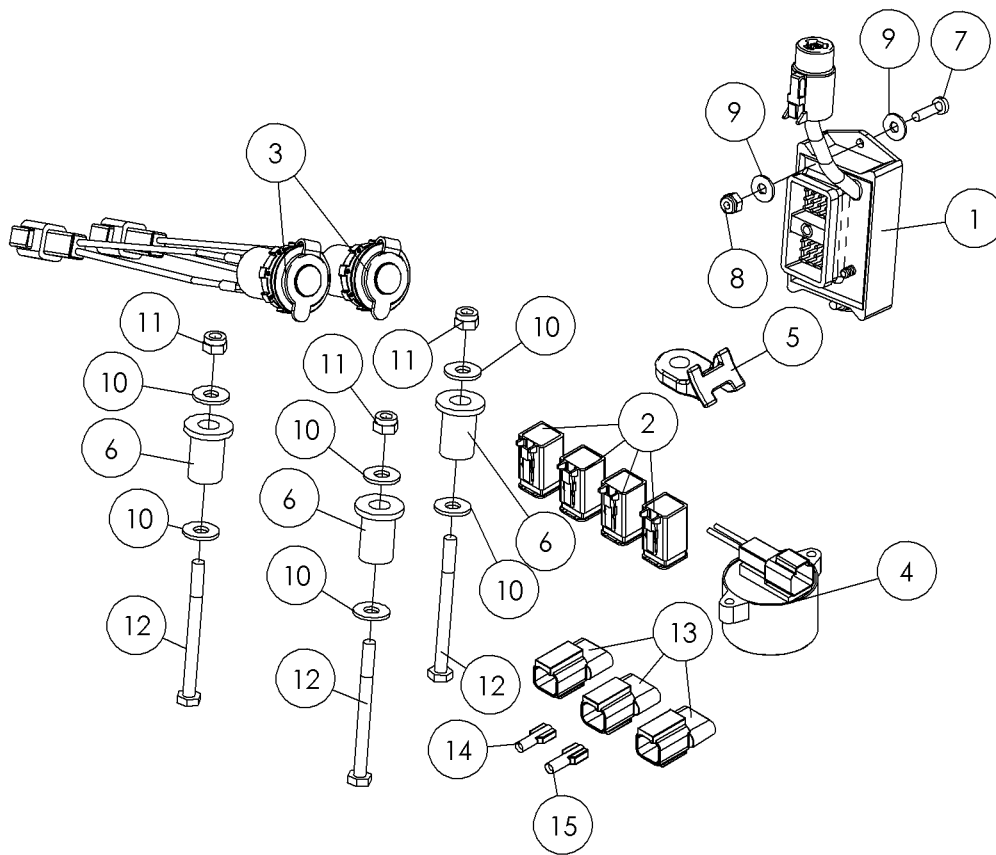
Two Speed Valve Fig 8-10



Two Speed Valve Fig 8-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Addition To Manual
1		294901001	VALVE - GREASER	1	Breakdown Fig. 11-8
2		57968001	FITTING-STR-4MJ-6MORB	1	
3		296286557	PLATE - VALVE SPACER	1	
4		350032	SCREW-HCS-.25-20X3.25-GR5-CZ	2	
5		5553001	FITTING - PLUG - 6MORB - HEX	1	
6		59426001	FITTING - 90-6MJ-6MORBA	1	
7		65565001	FITTING - 6M O-RING X 6M JIC ST.	1	
8		59427001	TEE-6MJ-6FSJ-6MJ	2	

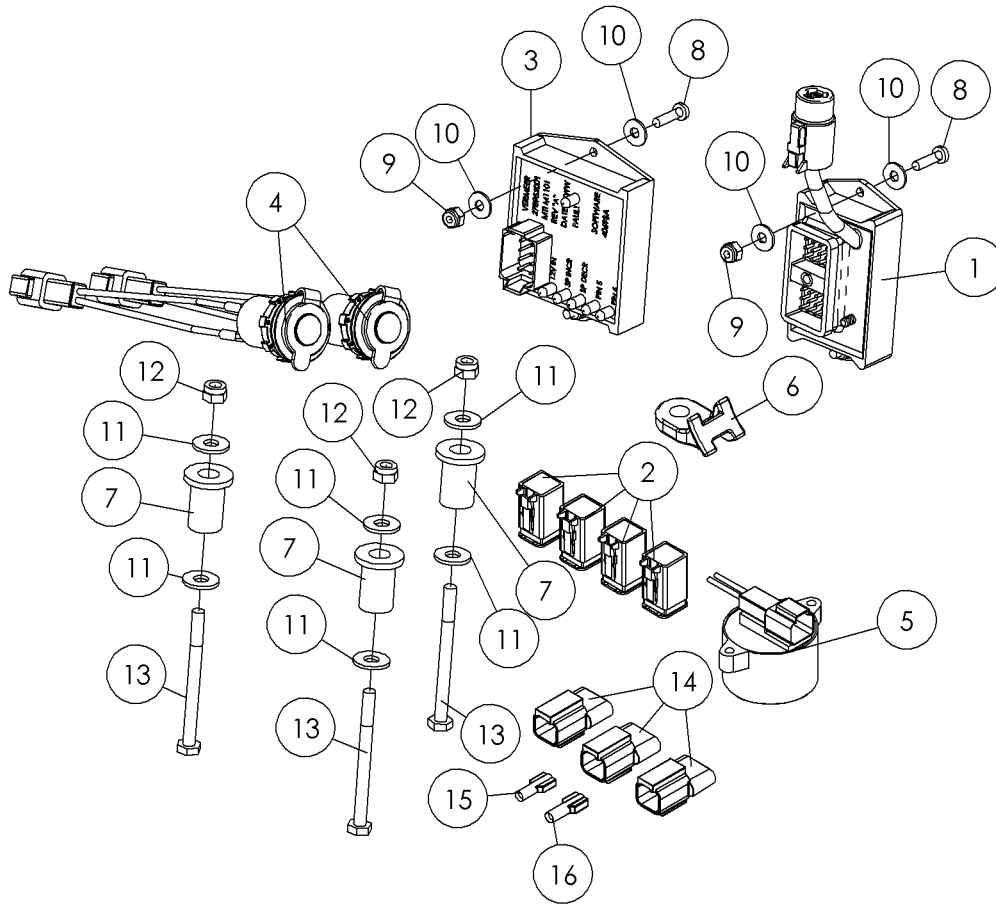
Electrical-Operator Controls Fig 9-1r01



Electrical-Operator Controls Fig 9-1r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		281526001	BUS BAR MODULE	1	
2		282531001	MODULE-DEUTSCH DT06-6S 3AMP DIODE	4	
3		285604001	OUTLET - PLUG	2	
4		285617001	HORN - ZAP ALERT	1	
5		296276018	MOUNT - HEAVY DUTY CABLE TIE	1	
6		228064001	INSERT-FASTENER	3	
7		1802006	BOLT-10-24 X 3/4 RND HD STOVE	2	
8		99042001	NUT-NYLOCK-10-24-GR2-CZ	2	
9		485001	WASHER-FLATSTD-.19-.22X.56-.05-CZ	4	
10		510337603	WASHER-FLATSTD-.25-.31X.75-.07-YZ	6	
11		103201001	NUT-NYLOCK-.25-20-GR2-CZ	3	
12		503530001	SCREW-HCS-.25-20X3.00-GR8-YZ	3	
13		296269610	RECEPTACLE TERMINOR - 2 WAY	3	
14		18988001	TERM - 250FULL INS MALE SLD16GA.	1	
15		18989001	TERM - 250FULL INS FEM SLD16GA.	1	

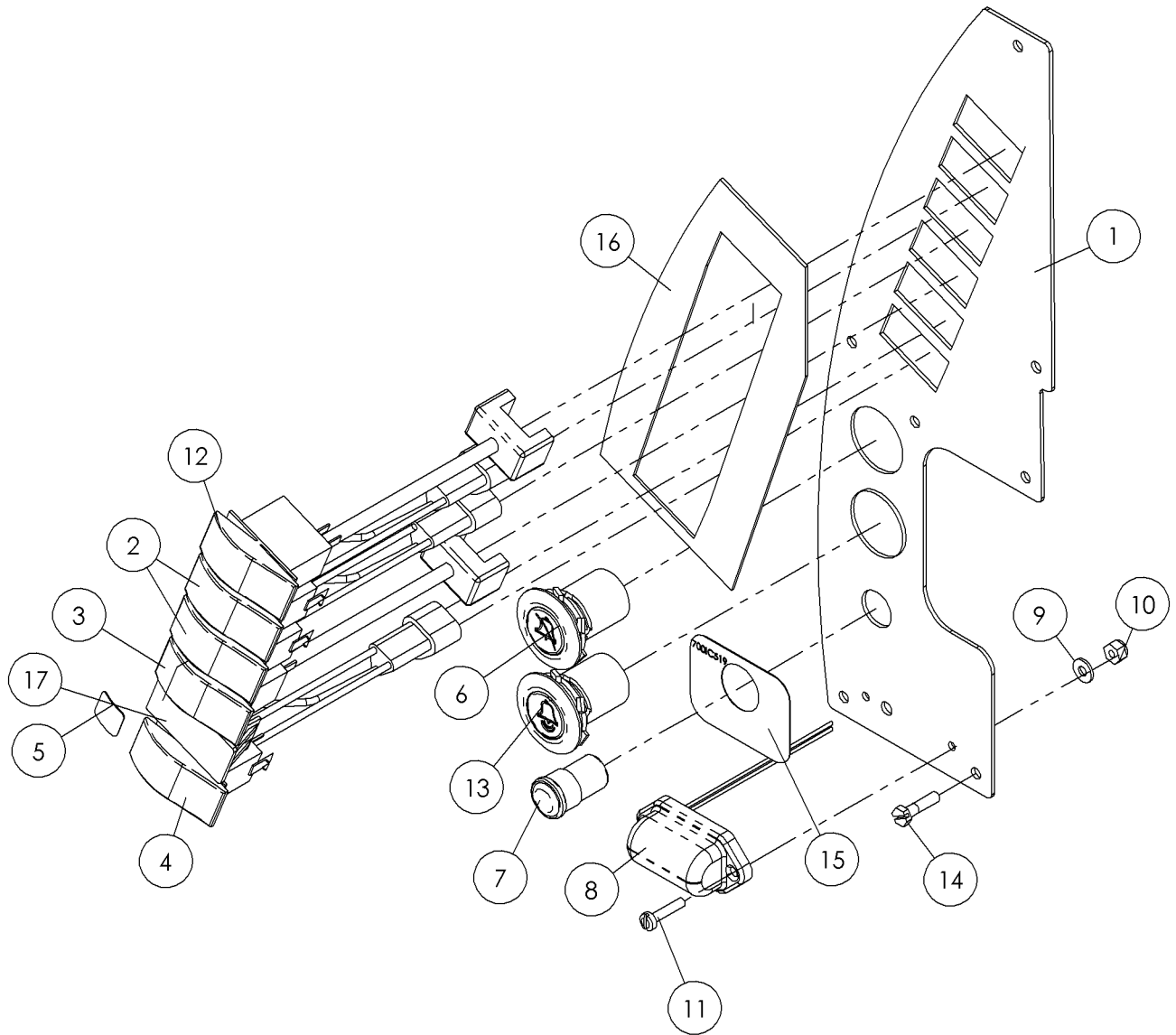
Electrical-Operator Controls Fig 9-1



Electrical-Operator Controls Fig 9-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		281526001	BUSS BAR MODULE	1	
2		282531001	MODULE - DEUTSCH DT06-6S 3AMP DIODE	4	
3		278952001	MODULE - PWM CONTROL	1	
4		285604001	OUTLET - 12 VOLT	2	
5		285617001	HORN - ZAP ALERT 2 PIN DEUTSCH	1	
6		296276018	MOUNT HELLER MANN TITON	1	
7		228064001	INSERT-FASTENER	3	
8		1802006	BOLT-10-24 X 3/4 RND HD STOVE	4	
9		99042001	NUT - NYLOCK - 10 - 24 - GR2 - CZ	4	
10		485001	WASHER - FLATSTD - .19 - .22 X .56 - .05 - CZ	8	
11		510337603	WASHER-FLATSTD-.25-.31X.75-.07-YZ	6	
12		103201001	NUT-1/4-20NC NYLON INSERT LOCK	3	
13		503530001	BOLT-1/4 NC X 3 GR8 HEX	3	
14		296269610	MODULE-DEUTSCH DT04-4P 3AMP DIODE	3	
15		18988001	TERM-.250FULL INS MALE SLD16GA	1	
16		18989001	TERM-.250 FULL INS FEM SLD16GA	1	

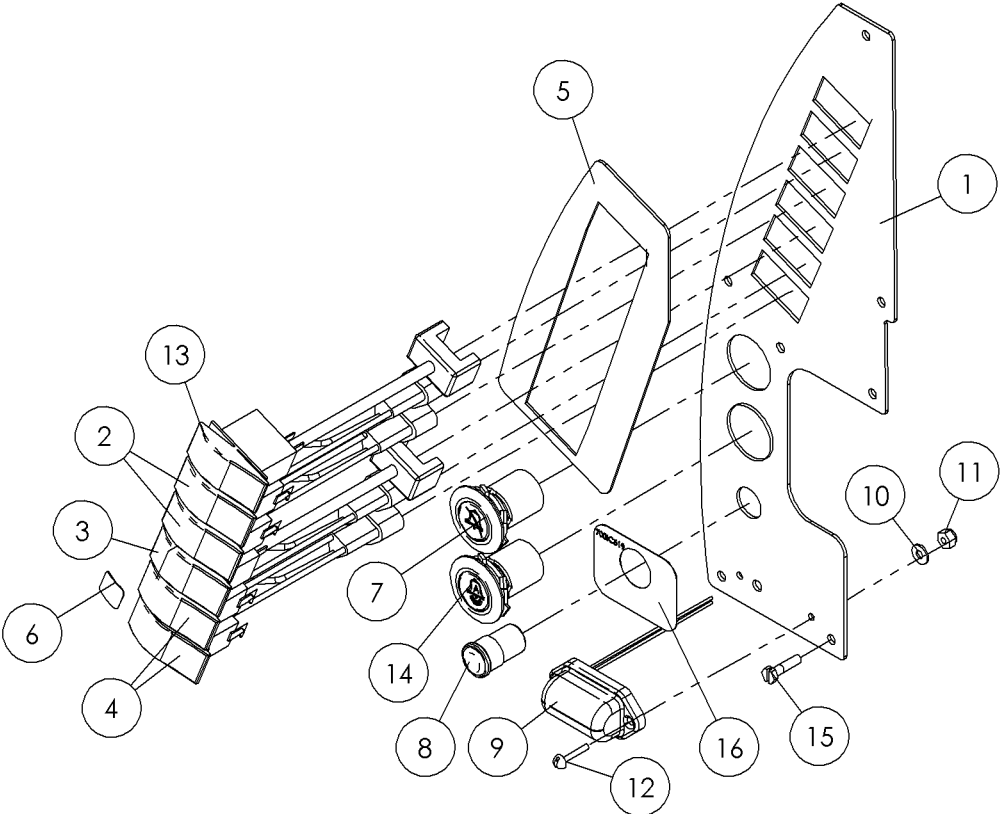
Upper LH Panel Fig 9-2r01



Upper LH Panel Fig 9-2r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296274139	PLATE - SWITCH LEFT	1	
2		257205001	SWITCH - SP 2 POSITION	2	
3		296269576	SWITCH - SP 2 POSITION BRAKE	1	
4		257541001	SWITCH -1 POLE MOM-OFF-MOM	1	
5		700IC454	DECAL - CONTROL	1	
6		296280268	SWITCH-STRIKE ALERT ALARM OFF	1	
7		296275581	LIGHT-REMOTE LOCKOUT-GREEN	1	
8		296256067	LIGHT - CONSOLE, M434	1	
9		224769001	WASHER-FLATSAE-#8-.19X.44-.05-CZ	2	
10		69759001	NUT-TLHEX-8-32-GR2-CZ	2	
11		10530006	SCREW-MCH-8-32 X .75-GR2-CZ-RND-SLTD	2	
12		296274146	SWITCH - SP 3 POSITION (OFF, ON, ON)	1	
13		296280273	PUSHBUTTON - STRIKE ALERT TEST	1	
14		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH-SLTD	7	
15		700IC519	DECAL - STRIKE ALERT GREEN LIGHT	1	
16		700ic348	DECAL - CONTROL	1	
17		156720001	PLUG-ROCKER SWITCH	1	

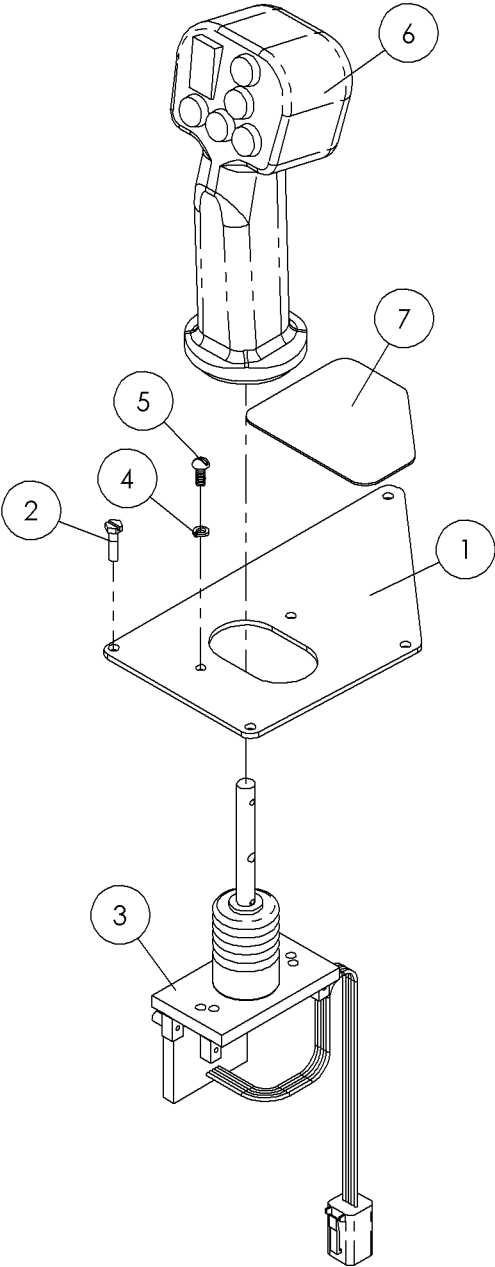
Upper LH Panel Fig 9-2



Upper LH Panel Fig 9-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296274139	PLATE - SWITCH LEFT	1	
2		257205001	SWITCH-SP 2 POSITION	2	
3		296269576	SWITCH - ON/ON/ON	1	
4		257541001	SWITCH-SPDT 3 POSITION MOM	2	
5		7000C348	DECAL - CONTROL LEFT HAND	1	
6		700IC454	DECAL - CONTROL	1	
7		296280268	SWITCH-PUSH BUTTON STRK ALERT ALARM OFF	1	
8		296275581	LIGHT - REMOTE LOCKOUT-GREEN	1	
9		296256067	LIGHT - CONSOLE, M434	1	
10		224769001	WASHER-#8 FLAT	2	
11		69759001	LOCK NUT-#8-32 NYLON INSERT PL	2	
12		10530006	SCREW-#8-32X3/4 SLOT RD.HD.	2	
13		296274146	SWITCH - SP 3 POSITION	1	
14		296280273	SWITCH - PUSH BUTTON STRIKE ALERT TEST	1	
15		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH- SLOTTED	7	
16		700IC519	DECAL - STRIKE ALERT GREEN LIGHT	1	

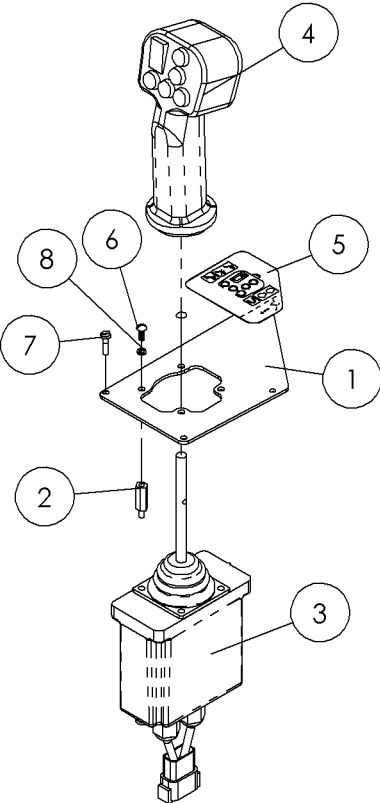
Left Joystick Panel Fig 9-3r02



Left Joystick Panel Fig 9-3r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296282506	PLATE - JOYSTICK MOUNT	1	
2		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH-SLTD	4	
3		296282533	JOYSTICK- SPRING CENTERED	1	
4		480001	WASHER-3/16 S/T LOCK REF T10253	2	
5		1802004	SCREW-MCH-10-32X.50-GR2-CZ-ROUND-SLTD	2	
6		296273907	HANDLE GRIP ASSEMBLY - RIGHT JOYSTICK	1	Breakdown Fig. 11-55
7		700IC857	DECAL - LEFT JOYSTICK CONTROL	1	

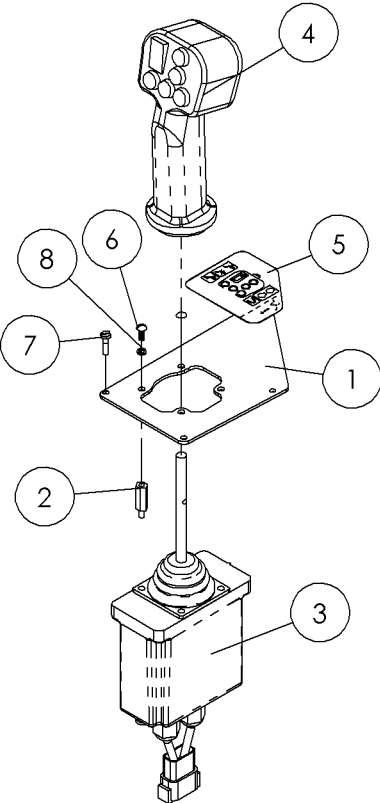
Left Joystick Panel Fig 9-3r01



Left Joystick Panel Fig 9-3r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296280442	PLATE - JOYSTICK MOUNT	1	
2		277651001	STANDOFF-3/8 HEX M/F 10-32 X 1	4	
3		296284021	CONTROLLER-EDC	1	S/N 111-
4		296273907	HANDLE GRIP ASSEMBLY - LEFT JOYSTICK	1	Breakdown Fig. 11-55
5		700IC664	DECAL - CONTROL LH JOYSTICK	1	
6		1802004	BOLT-3/16"NF X 1/2" STOVE	4	
7		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH-SLOTTED	4	
8		480001	WASHER-3/16 S/T LOCK	4	

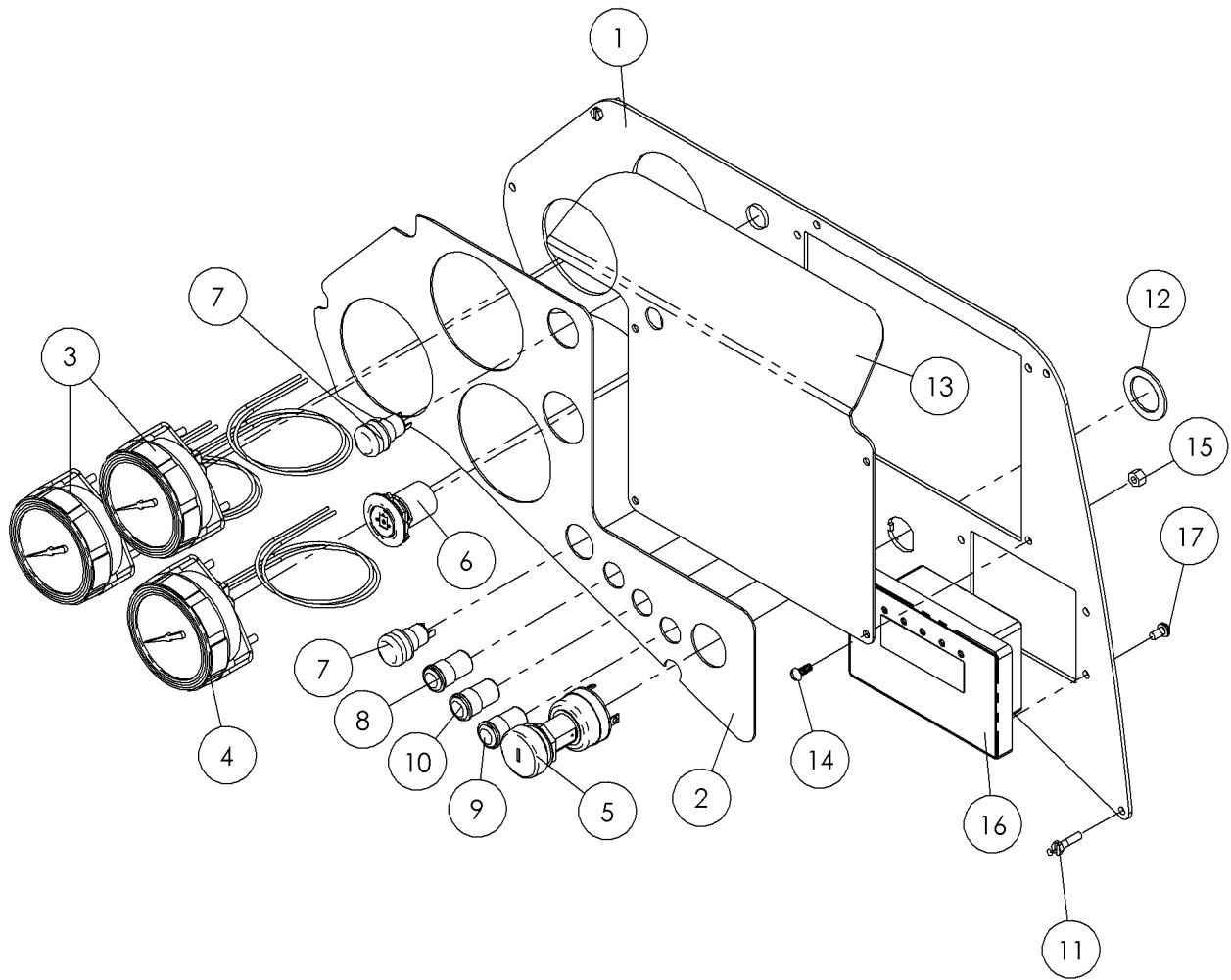
Left Joystick Panel Fig 9-3



Left Joystick Panel Fig 9-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280442	PLATE - JOYSTICK MOUNT	1	
2		277651001	STANDOFF-3/8 HEX M/F 10-32 X 1	4	
3		296284021	CONTROLLER-EDC	1	
4		296273907	HANDLE GRIP ASSEMBLY - LEFT JOYSTICK	1	Breakdown Fig. 11-55
5		700IC664	DECAL - CONTROL LH JOYSTICK	1	
6		1802004	BOLT-3/16"NF X 1/2" STOVE	4	
7		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH-SLOTTED	4	
8		480001	WASHER-3/16 S/T LOCK	4	

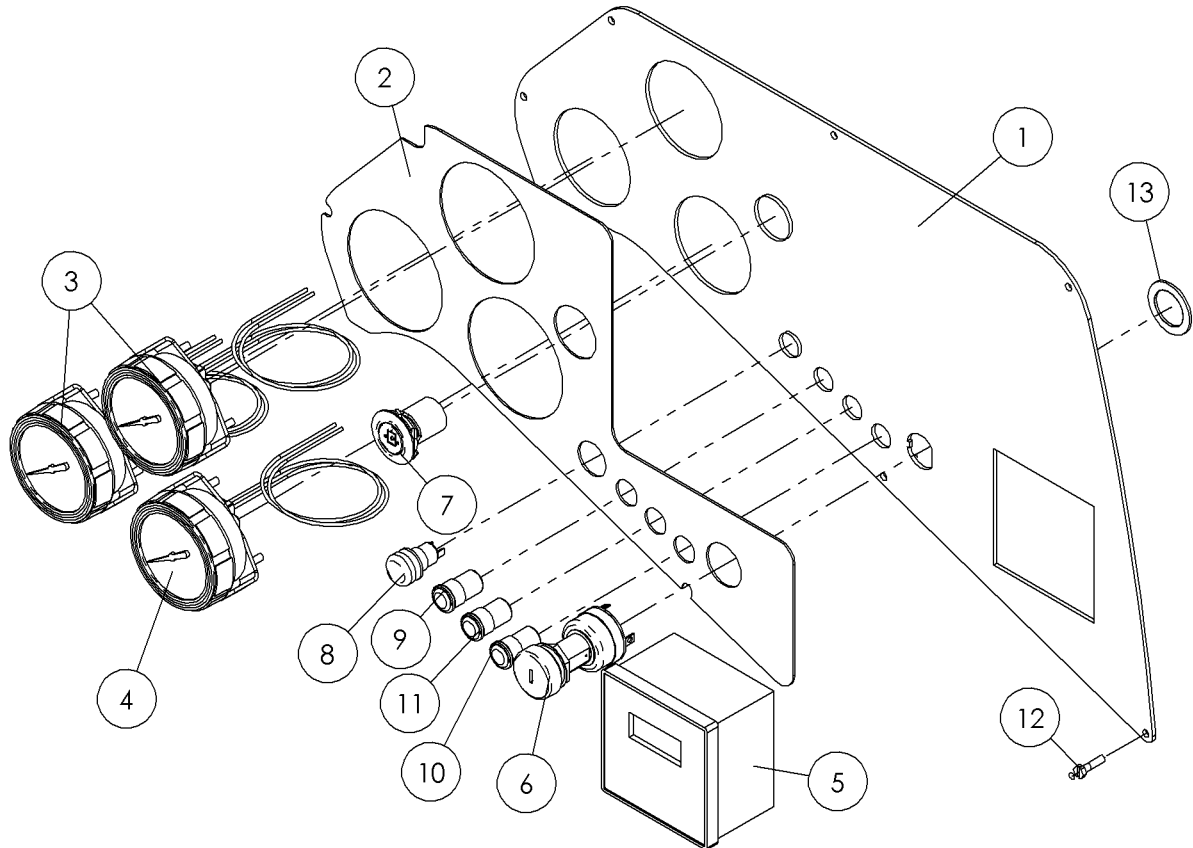
Upper RH Panel Fig 9-4r02



Upper RH Panel Fig 9-4r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296286496	PANEL - DCI/ACS DISPLAY	1	
2		700IC699	DECAL - CONTROL UPPER RH	1	
3		289651001	GAUGE - 7500 PSI - SPAN - JIC - LIGHT	2	
4		289650001	GUAGE SPAN - 200PSI	1	
5		285597001	SWITCH - IGNITION	1	
6		277699001	SW - PUSH BUTTON HYD. ENABLE	1	
7		260766001	SWITCH - MOM BUTTON NO	2	
8		296275581	LIGHT-REMOTE LOCKOUT-GREEN	1	
9		296275582	LIGHT-REMOTE LOCKOUT-RED	1	
10		296275583	LIGHT-REMOTE LOCKOUT-AMBER	1	
11		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH-SLTD	7	
12		483005	WASHER-MCHBSHG-1.00-1.03X1.50-14G-CZ	1	
13		296286479	PLATE - COVER/DCI MOUNT	1	
14		533004	BOLT-10-24x1/2 RND.HD.SLTMACH	4	
15		284471001	NUT-TLHEX-#10-24-A-CZ	4	
16		296287271	ASM-LED MID SIZE HDD	1	
17		229830001	SCREW-TFTAP-M5-.80X10-10.9-YZ-D7500-PPH	4	

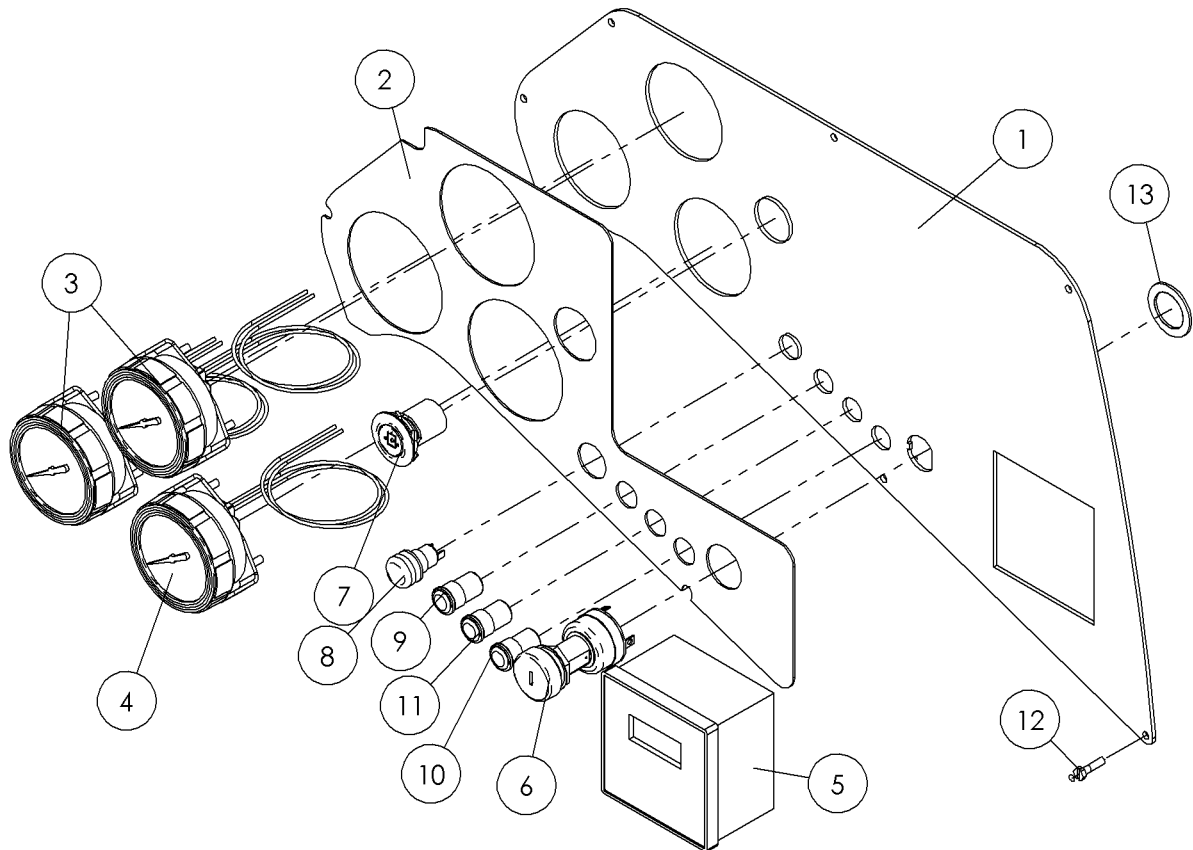
Upper RH Panel Fig 9-4r01



Upper RH Panel Fig 9-4r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296274136	PLATE - GUAGE RIGHT UPPER-D24X40	1	
2		700IC699	DECAL - CONTROL RH UPPER D36X50II	1	
3		289651001	GAUGE - 7500 PSI - SPAN - JIC - LIGHT	2	
4		289650001	GAUGE - 2000 PSI - SPAN - JIC - LIGHT	1	
5		296286503	MODULE - M1114B WATER CONTROL	1	
6		285597001	SWITCH - IGNITION	1	
7		277699001	SWITCH - PUSH BUTTON HYDRAULIC ENABLE	1	
8		260766001	SWITCH-MOM BUTTON NO	1	
9		296275581	LIGHT - REMOTE LOCKOUT-GREEN	1	
10		296275582	LIGHT - REMOTE LOCKOUT-RED	1	
11		296275583	LIGHT - REMOTE LOCKOUT - AMBER	1	
12		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH-SLOTTED	7	
13		483005	WASHER-1 1/2X1X14 GA M.B. REF T10919	1	

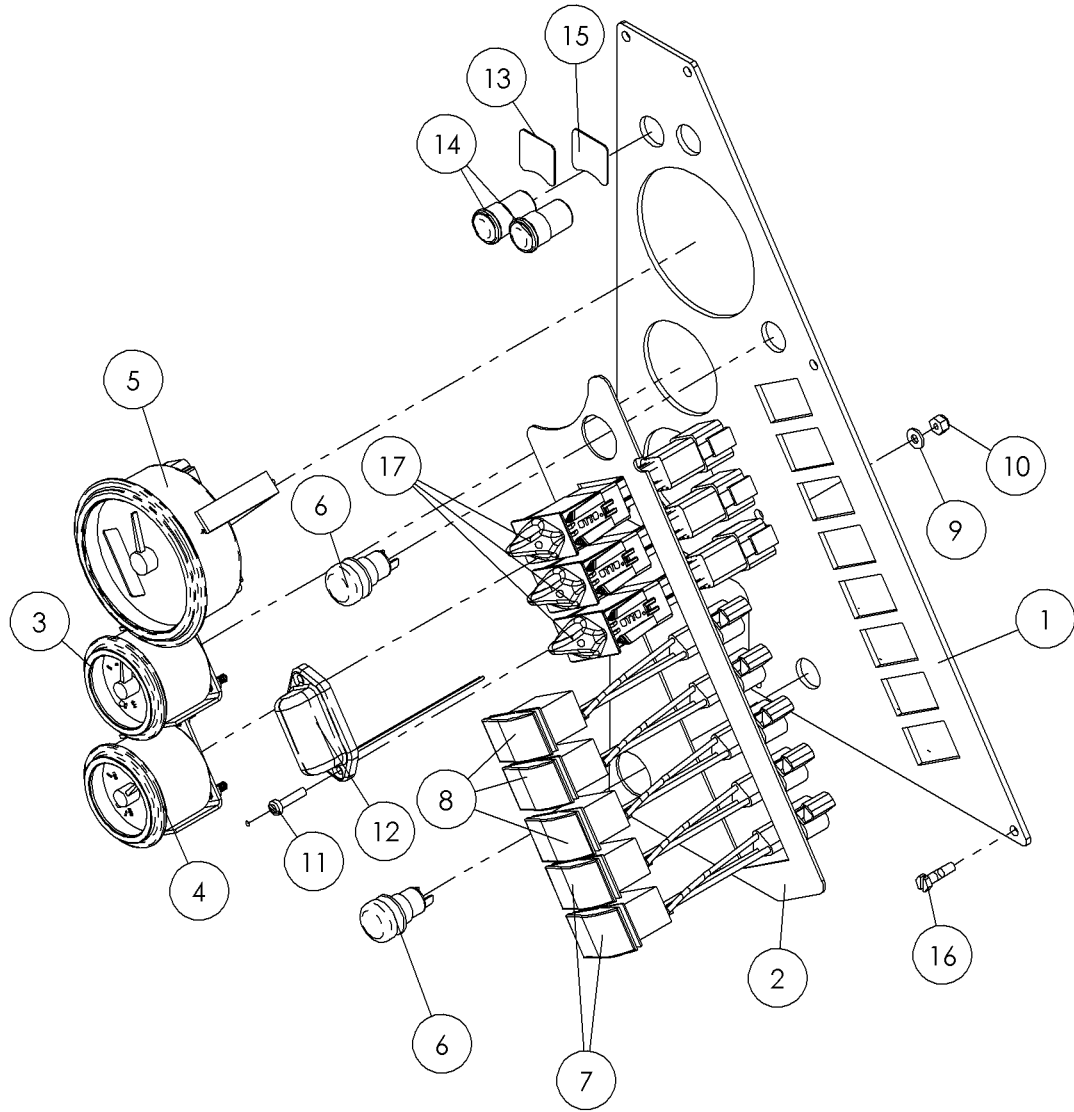
Upper RH Panel Fig 9-4



Upper RH Panel Fig 9-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296274136	PLATE - GUAGE RIGHT UPPER-D24X40	1	
2		700IC699	DECAL - CONTROL UPPER RH	1	
3		289651001	GAUGE - 7500 PSI - SPAN - JIC - LIGHT	2	
4		289650001	GAUGE - 2000 PSI - SPAN - JIC - LIGHT	1	
5		296269639	MODULE - M1114 WATER CONTROL	1	
6		285597001	SWITCH - IGNITION	1	
7		277699001	SWITCH - PUSH BUTTON HYDRAULIC ENABLE	1	
8		260766001	SWITCH-MOM BUTTON NO	1	
9		296275581	LIGHT - REMOTE LOCKOUT-GREEN	1	
10		296275582	LIGHT - REMOTE LOCKOUT-RED	1	
11		296275583	LIGHT - REMOTE LOCKOUT - AMBER	1	
12		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH- SLOTTED	7	
13		483005	WASHER-1 1/2X1X14 GA M.B.	1	

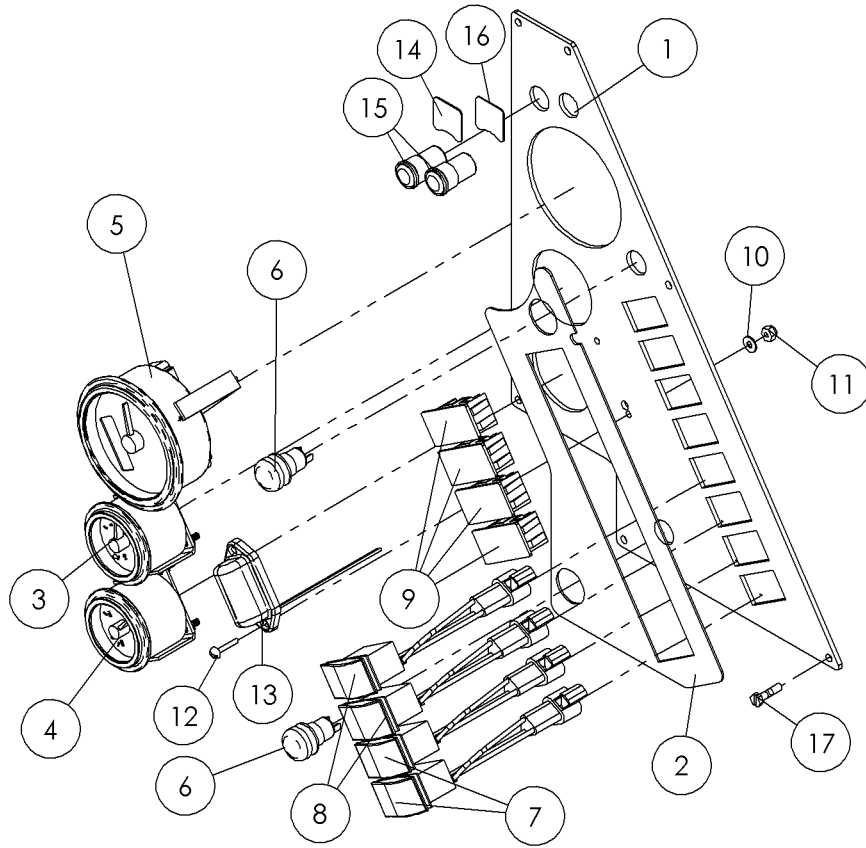
Lower RH Panel Fig 9-5r01



Lower RH Panel Fig 9-5r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296269646	PLATE - GAGE PANEL LOWER RIGHT	1	
2		700IC349	DECAL - CONTROL	1	
3		296274330	GAUGE - FUEL DATCON #112739	1	
4		296274329	GAUGE - TEMP DATCON #112718	1	
5		163627173	TACHOMETER	1	
6		260766001	SWITCH - MOM BUTTON NO	2	
7		257541001	SWITCH -1 POLE MOM-OFF-MOM	2	
8		257205001	SWITCH - SP 2 POSITION	3	
9		224769001	WASHER-FLATSAE-#8-.19X.44-.05-CZ	2	
10		69759001	NUT-TLHEX-8-32-GR2-CZ	2	
11		10530006	SCREW-MCH-8-32 X .75-GR2-CZ-RND-SLTD	1	
12		296256067	LIGHT - CONSOLE, M434	1	
13		700IC414	DECAL - ENGINE WARNING	1	
14		296275582	LIGHT-REMOTE LOCKOUT-RED	2	
15		700ic557	DECAL - HYD FILTER WARNING	1	
16		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH-SLTD	6	
17		296286254	SWITCH - ROTARY DPDT (ON),OFF,(ON)	3	

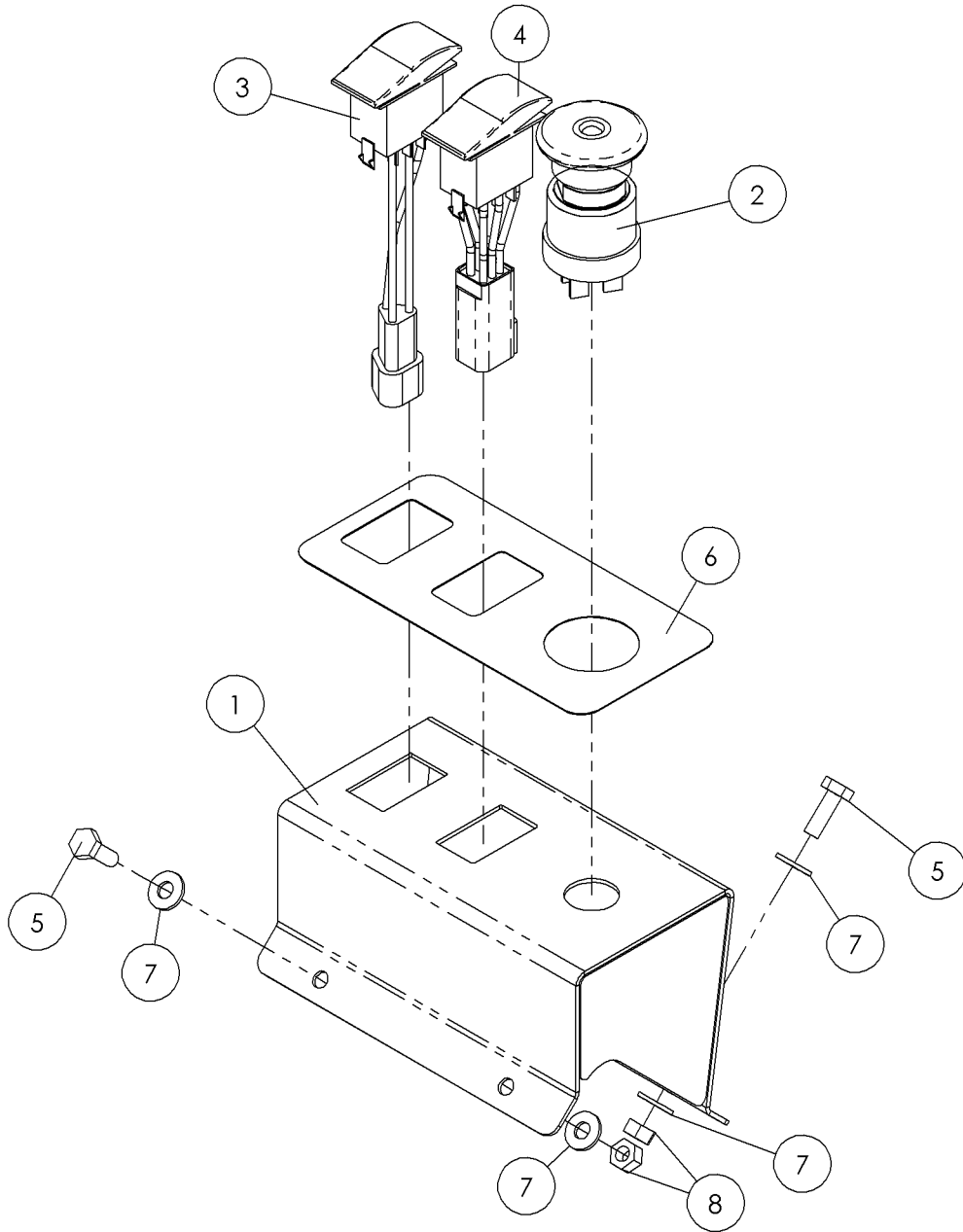
Lower RH Panel Fig 9-5



Lower RH Panel Fig 9-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296269646	PLATE - GAUGE PANEL - LOWER RIGHT	1	
2		700IC349	DECAL - CONTROL RIGHT HAND LOWER	1	
3		296274330	GAUGE - FUEL	1	
4		296274329	GAUGE-TEMP DATCON 12V W/ DEUTSCH CONNECTR	1	
5		163627173	TACHOMETER CANBUS	1	
6		260766001	SWITCH-MOM BUTTON NO	2	
7		257541001	SWITCH-SPDT 3 POSITION MOM	2	
8		257205001	SWITCH-SP 2 POSITION	2	
9		156720001	PLUG - ROCKER SWITCH	4	
10		224769001	WASHER-#8 FLAT	2	
11		69759001	LOCK NUT-#8-32 NYLON INSERT PL	2	
12		10530006	SCREW-#8-32X3/4 SLOT RD.HD.	2	
13		296256067	LIGHT - CONSOLE, M434	1	
14		700IC414	DECAL- ENGINE WARNING	1	
15		296275582	LIGHT - REMOTE LOCKOUT-RED	2	
16		700IC557	DECAL - HYD. FILTER WARNING LIGHT	1	
17		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH- SLOTTED	6	

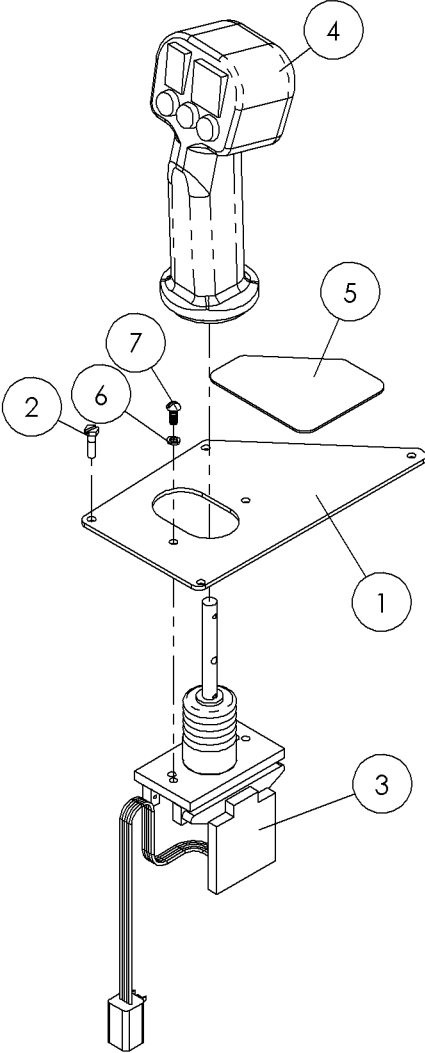
Accessory Panel Fig 9-6



Accessory Panel Fig 9-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280878	MOUNT - REAR SWITCHES	1	
2		296259684	BUTTON - RED PUSH/PULL	1	
3		257541001	SWITCH-SPDT 3 POSITION MOM	1	
4		296279988	SWITCH - ON# ON ON#	1	
5		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	4	
6		700IC665	DECAL - CONTROL REAR TRANSPORT	1	
7		235716001	WASHER - FLATSTRL - .25 -.28 X .63 - .06 - CZ	8	
8		235732001	NUT - HEX - .25 - 20 - GR8 - YZ	4	

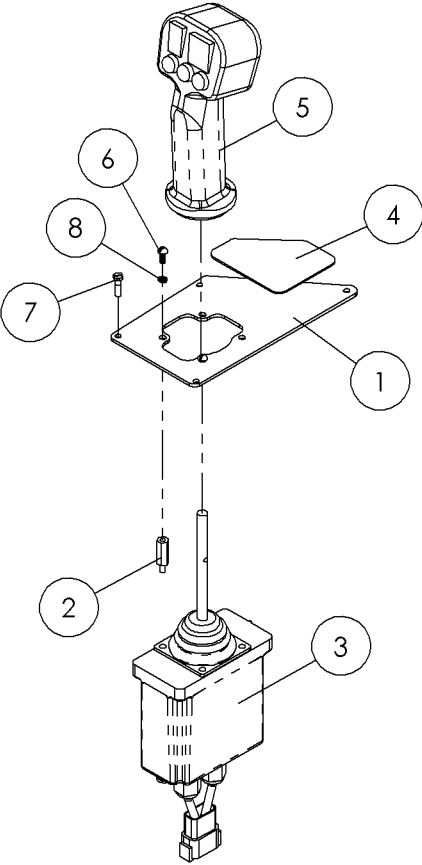
Right Joystick Panel Fig 9-7r02



Right Joystick Panel Fig 9-7r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296282506	PLATE - JOYSTICK MOUNT	1	
2		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH-SLTD	4	
3		296282533	JOYSTICK- SPRING CENTERED	1	
4		296273908	HANDLE GRIP ASSEMBLY - RIGHT JOYSTICK	1	Breakdown Fig. 11-56
5		700IC352	DECAL - CONTROL	1	
6		480001	WASHER-3/16 S/T LOCK REF T10253	2	
7		1802004	SCREW-MCH-10-32X.50-GR2-CZ-ROUND-SLTD	2	

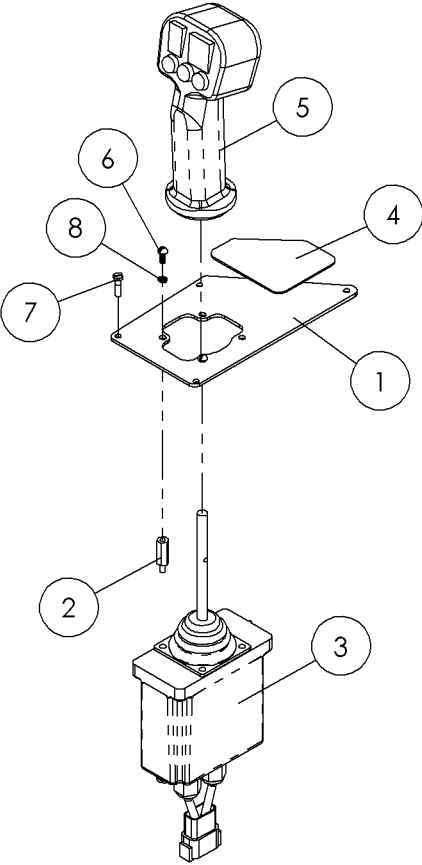
Right Joystick Panel Fig 9-7r01



Right Joystick Panel Fig 9-7r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296280442	PLATE - JOYSTICK MOUNT	1	
2		277651001	STANDOFF - 3/8 HEX M/F 10-32 X 1	4	
3		296284021	CONTROLLER - EDC	1	S/N 111-
4		700IC352	DECAL - CONTROL	1	
5		296273908	HANDLE GRIP ASSEMBLY - RIGHT JOYSTICK	1	Breakdown Fig. 11-56
6		1802004	SCREW-MCH-10-32X.50-GR2-CZ-ROUND-SLTD	4	
7		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH-SLTD	4	
8		480001	WASHER-3/16 S/T LOCK	4	

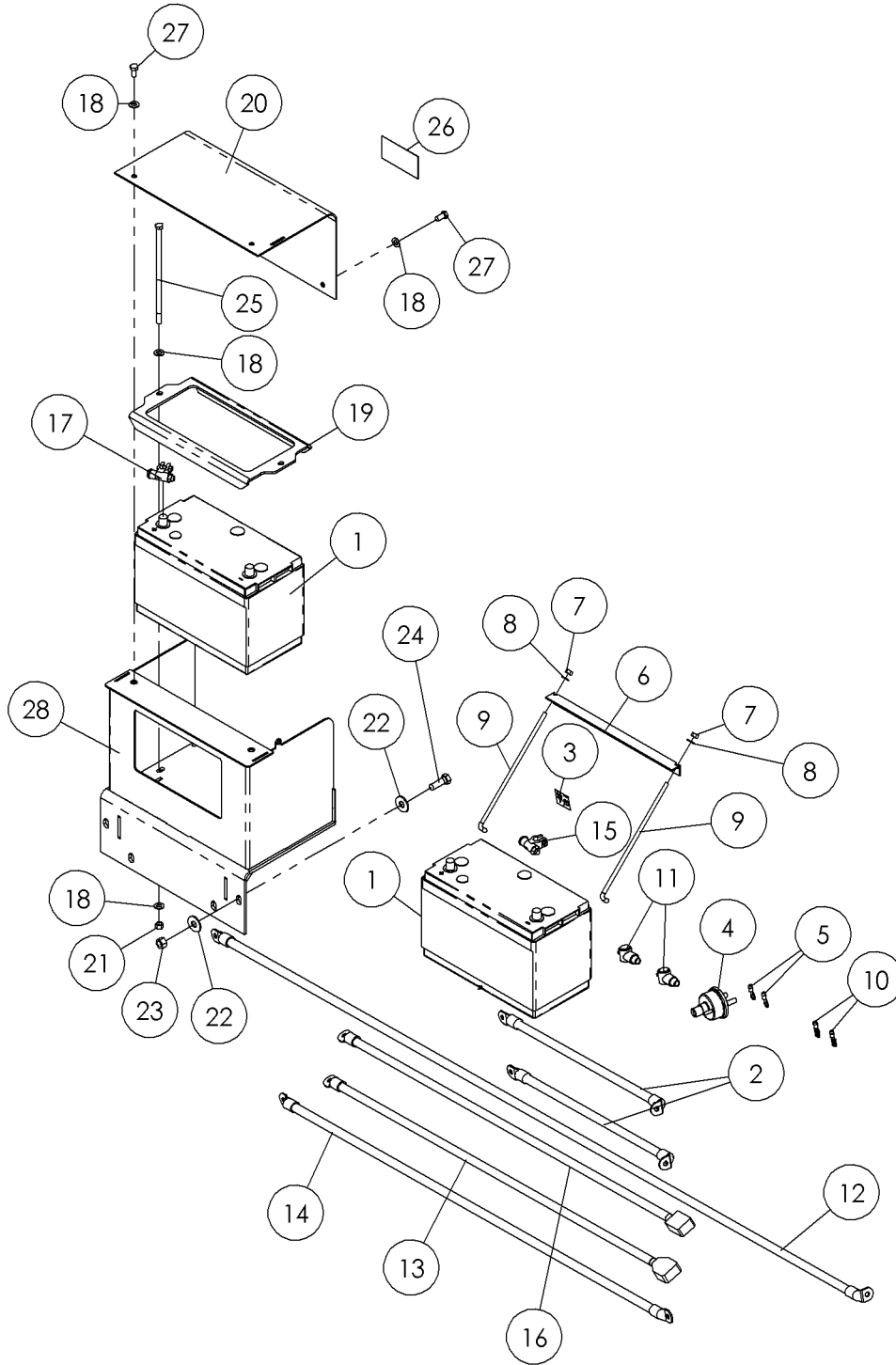
Right Joystick Panel Fig 9-7



Right Joystick Panel Fig 9-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280442	PLATE - JOYSTICK MOUNT	1	
2		277651001	STANDOFF - 3/8 HEX M/F 10-32 X 1	4	
3		296284021	CONTROLLER - EDC	1	
4		700IC352	DECAL - CONTROL	1	
5		296273908	HANDLE GRIP ASSEMBLY - RIGHT JOYSTICK	1	Breakdown Fig. 11-56
6		1802004	SCREW-MCH-10-32X.50-GR2-CZ-ROUND-SLTD	4	
7		510357010	SCREW-MCH-10-24X.75-GR2-YZ-HWH-SLTD	4	
8		480001	WASHER-3/16 S/T LOCK	4	

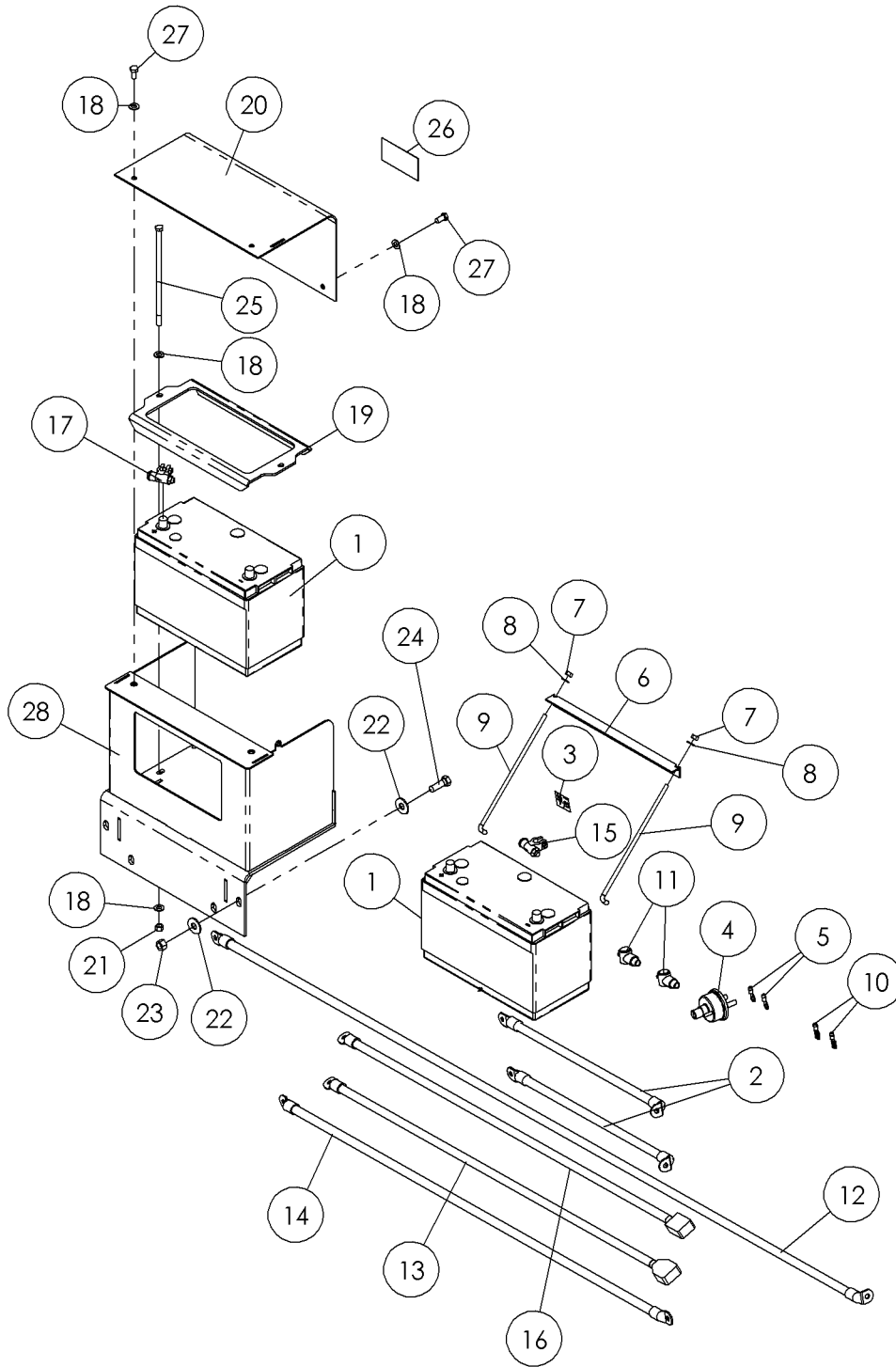
Battery (S/N 101-106, 108-114, And 117-) Fig 9-8r03



Battery (S/N 101-106, 108-114, And 117-) Fig 9-8r03

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Parts List.
1		NSS	BATTERY - GROUP 31 950CCA	2	
2		296279963	CABLE - BATTERY 24" BLACK E - E	2	
3		700IA477	DECAL - BATTERY SWITCH	1	
4		904365001	DISCONNECT SWITCH	1	
5		4716001	TERMINAL, CRIMP-ON 3/8" 10-12 GA YELLOW	2	
6		214360001	HOLDDOWN - BATTERY	1	
7		235741001	NUT-HEX-.31-18-GR8-YZ	2	
8		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ- A325	2	
9		296274173	CLAMP - BATTERY	2	
10		14591001	TERM - .250 REM. SLIDE 10-12 GA.	2	
11		296269641	BOOT - BATTERY	2	
12		296286564	CABLE - BATTERY 4/0 97" BLACK E - E	1	
13		296286566	CABLE - BATTERY 4/0 51" RED P - E	1	
14		296286567	CABLE - BATTERY 4/0 58" RED E - E	1	
15		296286568	LUG - BATTERY, MILITARY TERMINAL- NEGATIVE	1	
16		296286565	CABLE - BATTERY 4/0 51" BLACK N - E	1	
17		296286569	LUG - BATTERY, MILITARY TERMINAL- POSITIVE	1	
18		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ- A325	12	
19		243853001	HOLD DOWN - BATTERY	1	
20		296286551	PLATE - BATTERY BOX LID	1	
21		510315501	NUT-TLHEX-.38-16-B-YZ	2	
22		510337611	WASHER-FLATSTD-.50-.56X1.38-.11-YZ	8	
23		510317501	NUT-TLHEX-.50-13-B-YZ	4	
24		510304014	SCREW-HCS-.50-13X1.50-GR5-YZ	4	
25		243901001	BOLT-3/8-16X9 1/2 GR5 HHC ZP	2	
26		7000B024	DECAL - WARNING	1	Domestic
		700IB024	DECAL - WARNING	1	International
27		235726001	SCREW-HCS-.38-16X.75-GR8-YZ	4	
28		296286553	WELDMENT - BATTERY BOX	1	
			NSS- NOT SOLD SEPARATELY		

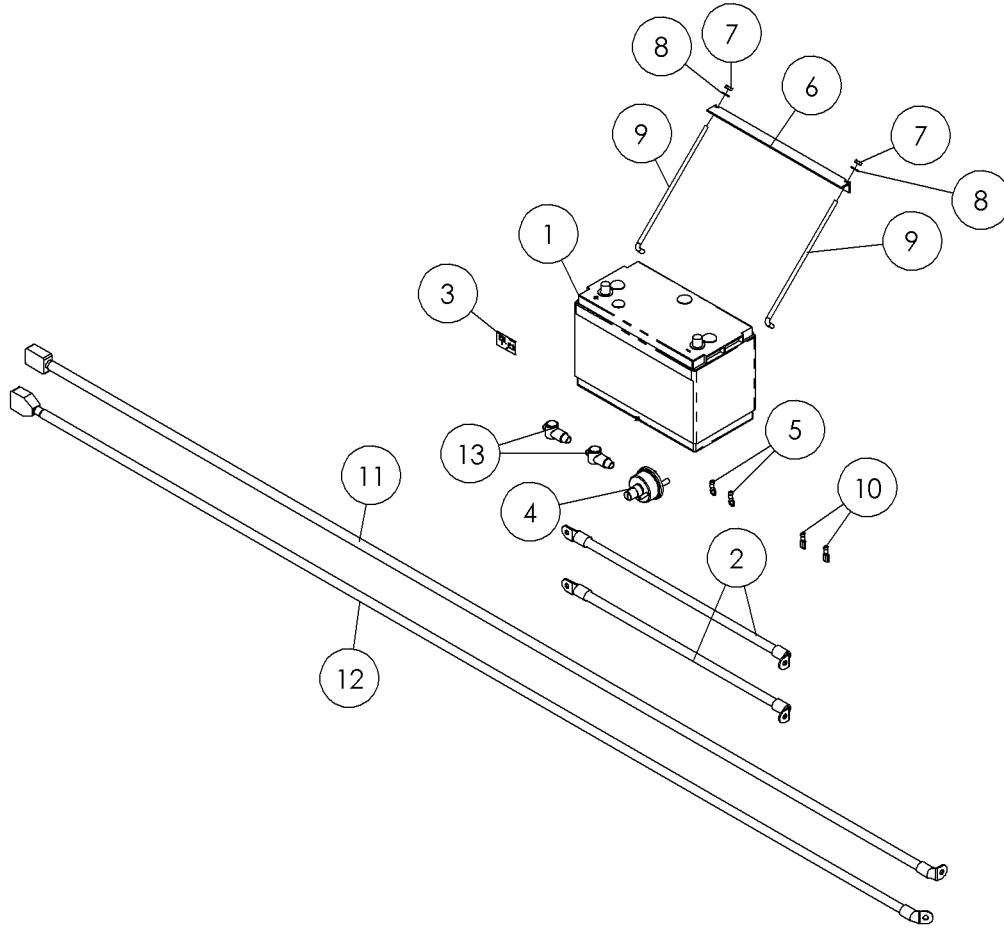
Battery Fig 9-8r02



Battery Fig 9-8r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		NSS	BATTERY - GROUP 31 950CCA	2	
2		296279963	CABLE - BATTERY 24" BLACK E - E	2	
3		700IA477	DECAL - BATTERY SWITCH	1	
4		904365001	DISCONNECT SWITCH	1	
5		4716001	TERMINAL, CRIMP-ON 3/8" 10-12 GA YELLOW	2	
6		214360001	HOLDDOWN - BATTERY	1	
7		235741001	NUT-HEX-.31-18-GR8-YZ	2	
8		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ- A325	2	
9		296274173	CLAMP - BATTERY	2	
10		14591001	TERM - .250 REM. SLIDE 10-12 GA.	2	
11		296269641	BOOT - BATTERY	2	
12		296286564	CABLE - BATTERY 4/0 97" BLACK E - E	1	
13		296286566	CABLE - BATTERY 4/0 51" RED P - E	1	
14		296286567	CABLE - BATTERY 4/0 58" RED E - E	1	
15		296286568	LUG - BATTERY, MILITARY TERMINAL- NEGATIVE	1	
16		296286565	CABLE - BATTERY 4/0 51" BLACK N - E	1	
17		296286569	LUG - BATTERY, MILITARY TERMINAL- POSITIVE	1	
18		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ- A325	12	
19		243853001	HOLD DOWN - BATTERY	1	
20		296286551	PLATE - BATTERY BOX LID	1	
21		510315501	NUT-TLHEX-.38-16-B-YZ	2	
22		510337611	WASHER-FLATSTD-.50-.56X1.38-.11-YZ	8	
23		510317501	NUT-TLHEX-.50-13-B-YZ	4	
24		510304014	SCREW-HCS-.50-13X1.50-GR5-YZ	4	
25		243901001	BOLT-3/8-16X9 1/2 GR5 HHC ZP	2	
26		7000B024	DECAL - WARNING	1	Domestic
		700IB024	DECAL - WARNING	1	International
27		235726001	SCREW-HCS-.38-16X.75-GR8-YZ	4	
28		296286553	WELDMENT - BATTERY BOX	1	
			NSS- NOT SOLD SEPARATELY		

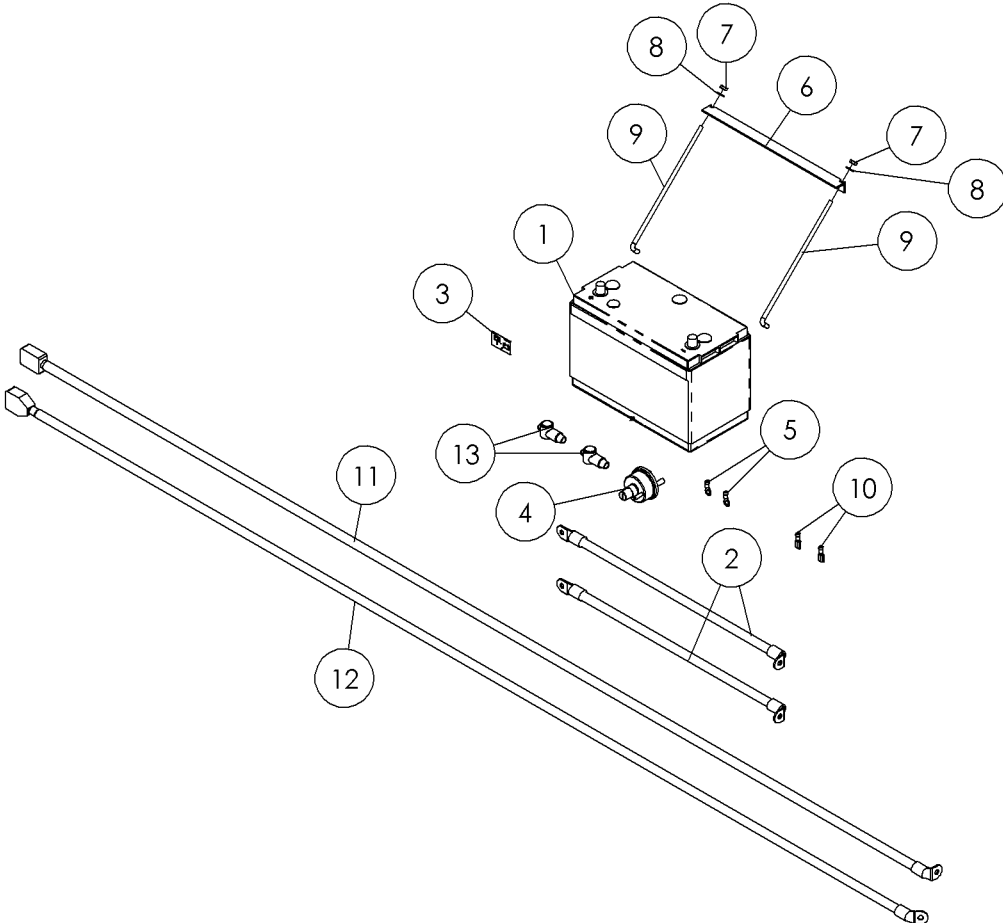
Battery Fig 9-8r01



Battery Fig 9-8r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		91547001	BATT. GROUP 31 950CCA	1	
2		296279963	CABLE - BATTERY 3/0-24" BLACK E-E-	2	
3		700ia477	DECAL_BATTERY SWITCH (UG)	1	
4		904365001	DISCONNECT SWITCH	1	
5		4716001	TERMINAL-3/8 RING 12-10 GA.	2	
6		214360001	HOLDDOWN-BATTERY	1	
7		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	2	
8		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	2	
9		296274173	CLAMP - BATTERY	2	
10		14591001	TERM-.250 FEM.SLIDE 12-10 GA.	2	
11		296286547	CABLE - BATTERY 4/0 97" BLACK P-E	1	
12		296286548	CABLE - BATTERY 4/0 97" RED P-E	1	
13		296269641	BOOT - BATTERY ALTERNATOR COVER	2	

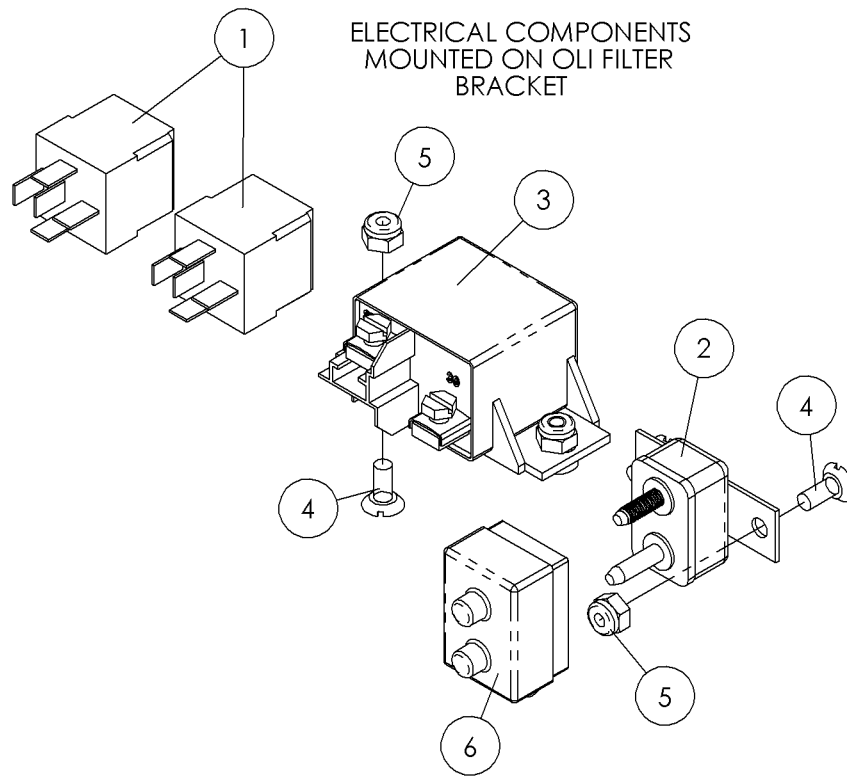
Battery Fig 9-8



Battery Fig 9-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		NSS	BATT. GROUP 31 950CCA	1	
2		296279963	CABLE - BATTERY 3/0-24" BLACK E-E-	2	
3		700ia477	DECAL_BATTERY SWITCH (UG)	1	
4		904365001	DISCONNECT SWITCH	1	
5		4716001	TERMINAL-3/8 RING 12-10 GA.	2	
6		214360001	HOLDDOWN-BATTERY	1	
7		235741001	NUT - HEX - .31 - 18 - GR8 -YZ	2	
8		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	2	
9		296274173	CLAMP - BATTERY	2	
10		14591001	TERM-.250 FEM.SLIDE 12-10 GA.	2	
11		296279961	CABLE - BATTERY 3/0 97" BLACK P-E	1	
12		296279962	CABLE - BATTERY 3/0 97" RED P-E	1	
13		296269641	BOOT - BATTERY ALTERNATOR COVER	2	
			NSS - NOT SOLD SEPARATELY		

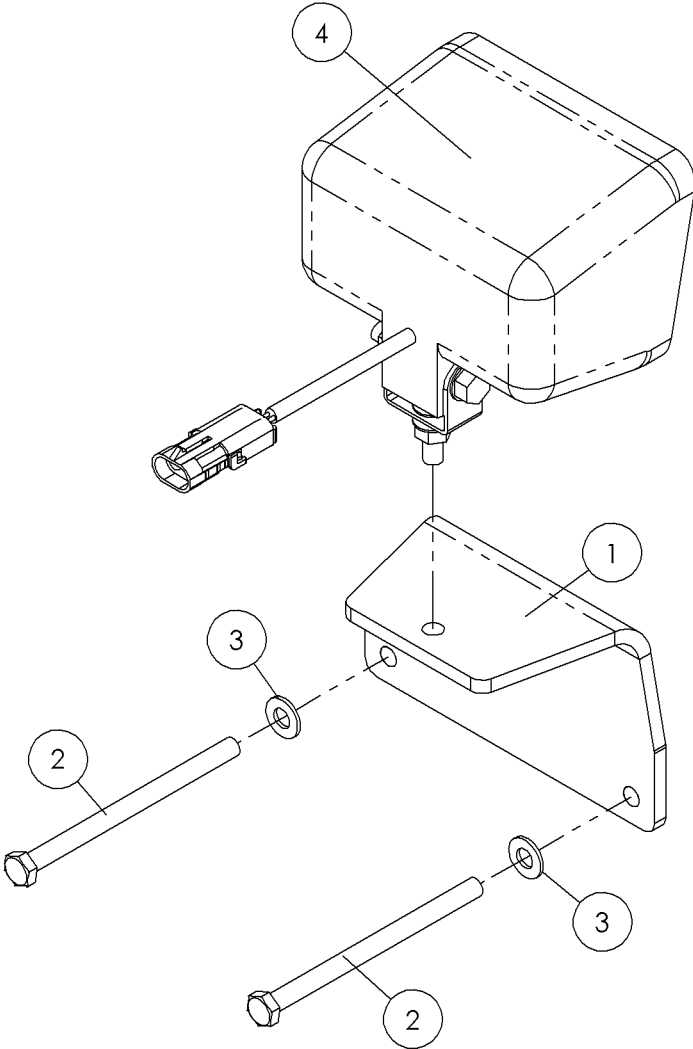
Engine Electrical Panel Fig 9-9



Engine Electrical Panel Fig 9-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		251681001	RELAY - SEALED 40 AMP	2	
2		86582001	BREAKER-40A TYPE 1 W/METALCASE	1	
3		86217001	RELAY-BOSCH SPST 75 AMP SEALED	1	
4		79525001	SCREW-#10-24X1/2 FLHD MACHINE	4	
5		99042001	NUT - NYLOCK - 10 - 24 - GR2 - CZ	4	
6		296269640	BOOT - RED COVER CIRCUIT BREAKER	1	

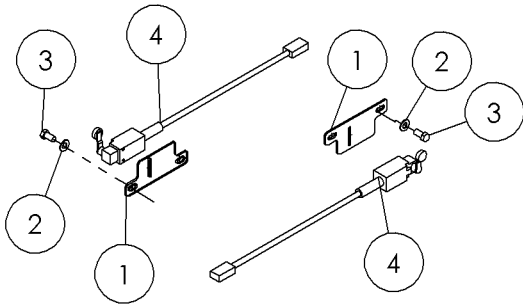
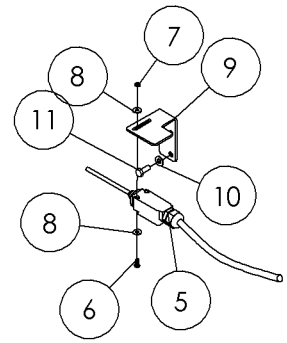
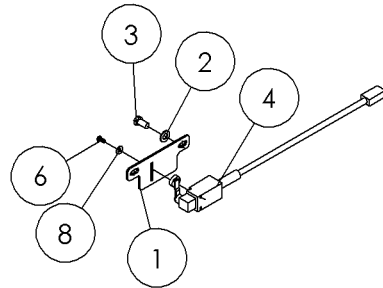
Work Light Fig 9-10



Work Light Fig 9-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		279148001	PLATE - MOUNT	1	
2		250523001	BOLT-5/16-18 X 4 1/2 GR8 HEX Y	2	
3		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	2	
4		245006001	ASSEMBLY-3X5 FLOOD LIGHT	1	

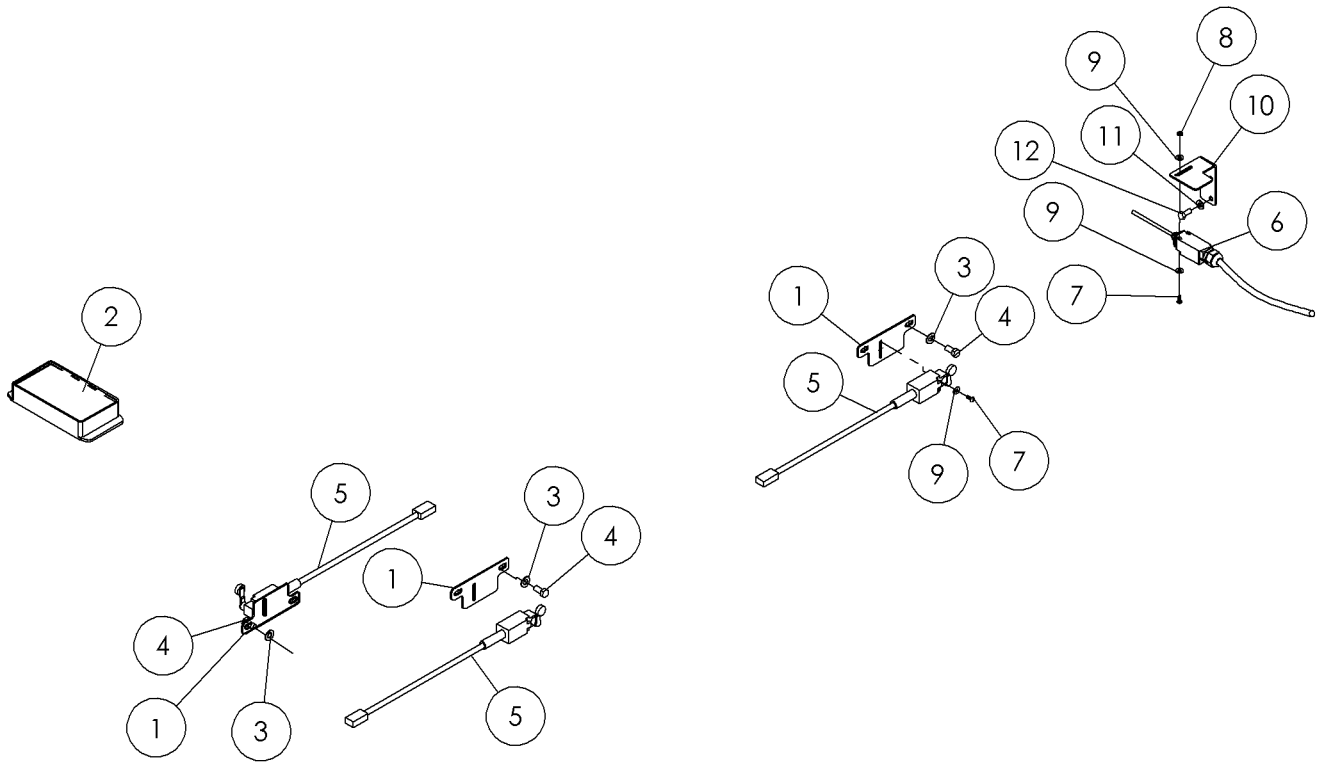
Rack Slowdown & Anticrash Fig 9-11r02



Rack Slowdown & Anticrash Fig 9-11r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		281802001	PLATE - SWITCH MOUNT	3	
2		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	6	
3		235726001	SCREW-HCS-.38-16X.75-GR8-YZ	6	
4		276467001	SWITCH - LIMIT NO/NC LEVER/ROLLER	3	
5		276448001	SWITCH- LIMIT NO/NC	1	
6		1802004	SCREW-MCH-10-32X.50-GR2-CZ-ROUND-SLTD	4	
7		26692001	NUT-HEXMS-10-32-GR2-CZ	2	
8		485001	WASHER-FLATSTD-.19-.22X.56-.05-CZ	6	
9		296280226	PLATE - STOP SWITCH	1	
10		235714001	WASHER-FLATSTRL-.31-.34X.69-.06-YZ-A325	2	
11		235742001	SCREW-HCS-.31-18X.75-GR8-YZ	2	

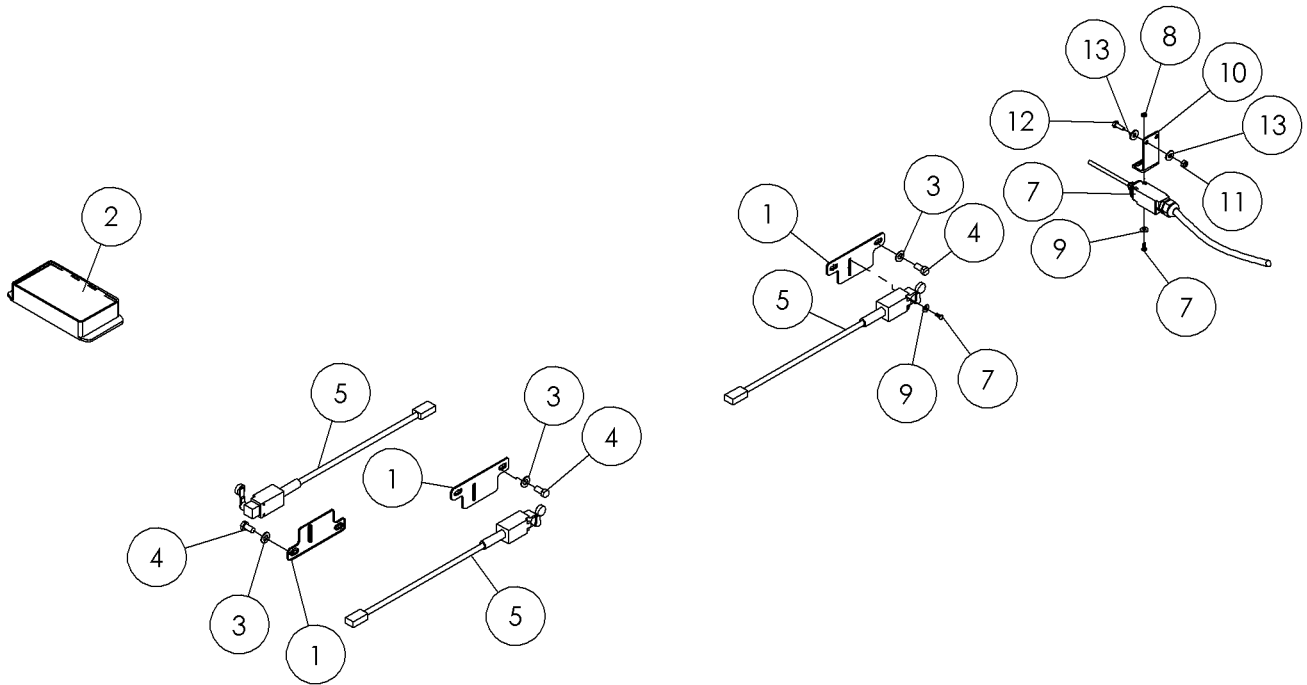
Rack Slowdown & Anticrash Fig 9-11r01



Rack Slowdown & Anticrash Fig 9-11r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		281802001	PLATE - SWITCH MOUNT	3	
2		296272095	MODULE - I/O AUTO LDR/SEQUENCER	1	
3		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	6	
4		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	6	
5		276467001	SWITCH - LIMIT NO/NC LEVER/ROLLER	3	
6		276448001	SWITCH - LIMIT NO/NC	1	
7		1802004	BOLT-3/16"NF X 1/2" STOVE REF T16183	4	
8		26692001	NUT-10-32 NF HEX	2	
9		485001	WASHER - FLATSTD - .19 - .22 X .56 - .05 - CZ	6	
10		296280226	PLATE - STOP SWITCH	1	
11		235714001	WASHER - FLATSTRL - .31 - .34 X .69 - .06-YZ-A325	2	
12		235742001	BOLT-5/16-18X3/4 GR8 ZYC	2	

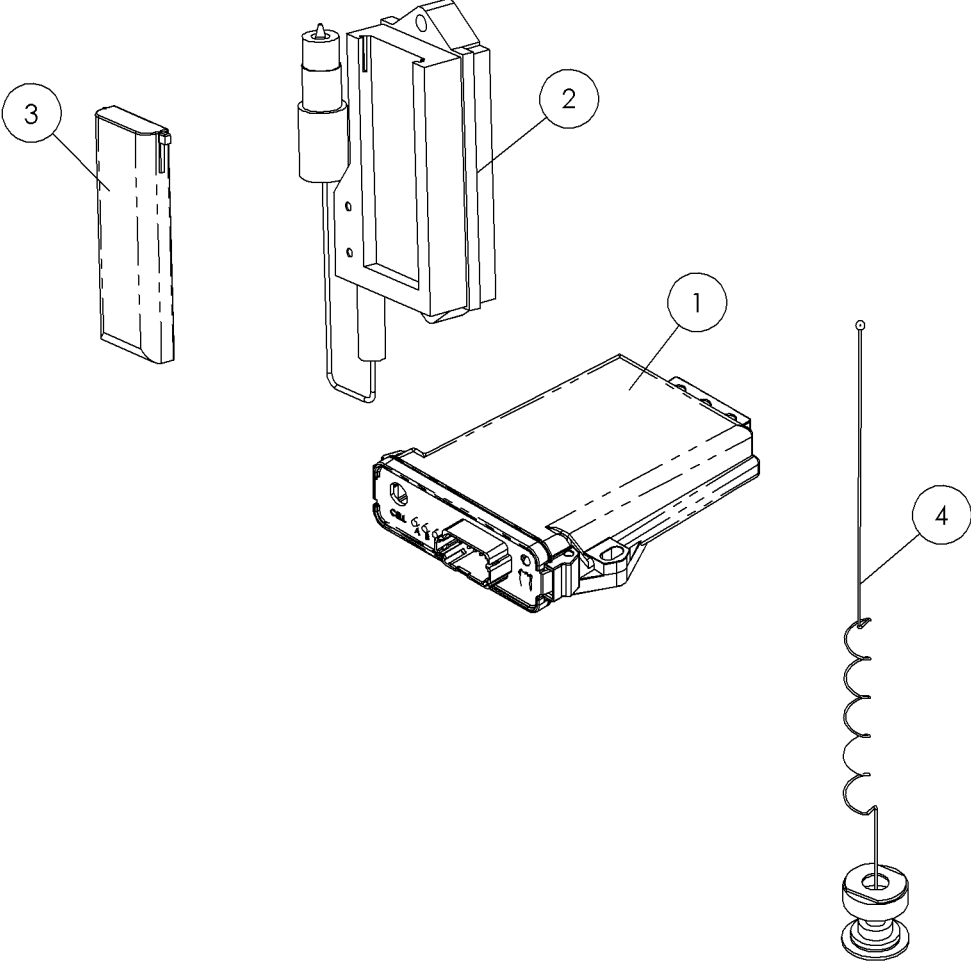
Rack Slowdown & Anticrash Fig 9-11



Rack Slowdown & Anticrash Fig 9-11

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		281802001	PLATE - SWITCH MOUNT	3	
2		296272095	MODULE - I/O AUTO LDR/SEQUENCER	1	
3		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	6	
4		235726001	BOLT-3/8-16X3/4 GR8 HEX ZNCPLT	6	
5		276467001	SWITCH - LIMIT NO/NC LEVER/ROLLER	3	
6		276448001	SWITCH - LIMIT NO/NC	1	
7		1802004	BOLT-3/16"NF X 1/2" STOVE	4	
8		26692001	NUT-10-32 NF HEX	2	
9		485001	WASHER - FLATSTD - .19 - .22 X .56 - .05 - CZ	4	
10		296280212	PLATE - SWITCH MOUNT	1	
11		235732001	NUT - HEX - .25 - 20 - GR8 - YZ	2	
12		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	2	
13		510337603	WASHER-FLATSTD-.25-.31X.75-.07-YZ	4	

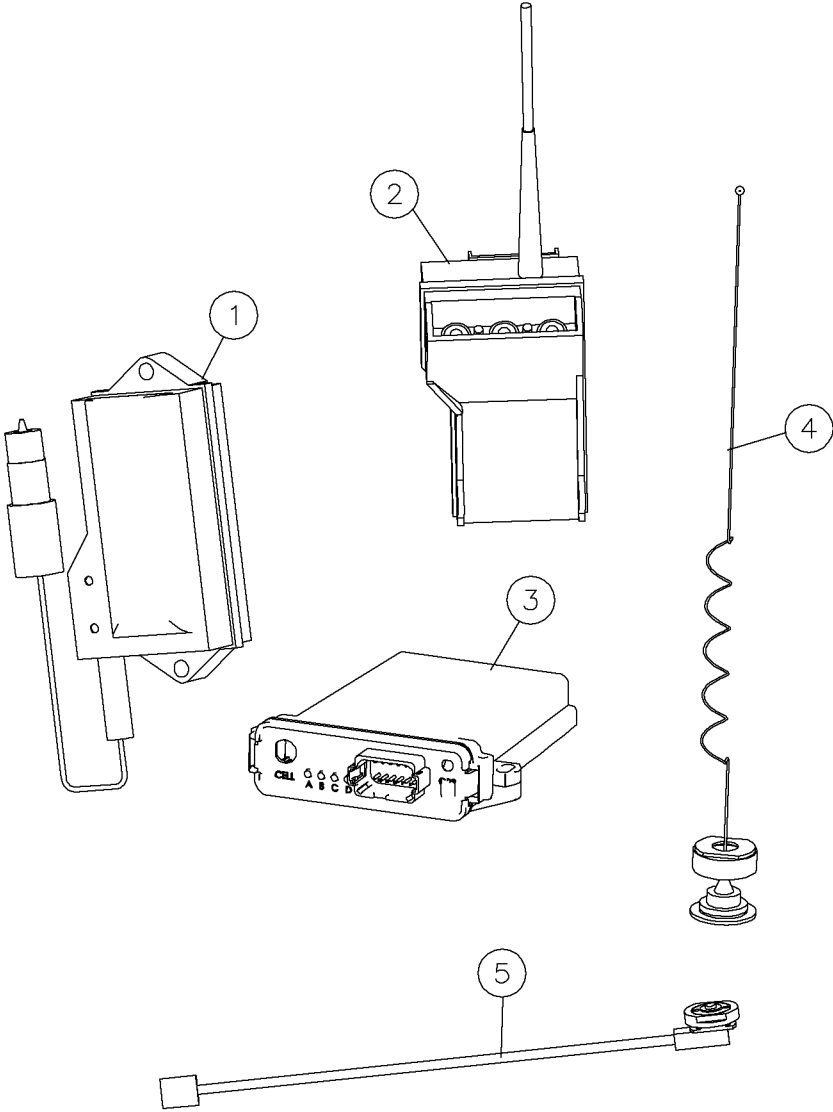
Remote Lockout-Domestic Fig 9-12



Remote Lockout-Domestic Fig 9-12

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272304	ASM - B309 BASE UNIT	1	
2		296272392	CHARGER, 12-VOLT NBB	1	
3		296272400	BATTERY - 1000MA NBB	1	
4		296272364	ANTENNA -915 MHZ, 3 dBI, 1/4 WAVE	1	
		296280372	KIT-REMOTE LOCKOUT-LK1DOMESTIC		Inc All Items In Figure

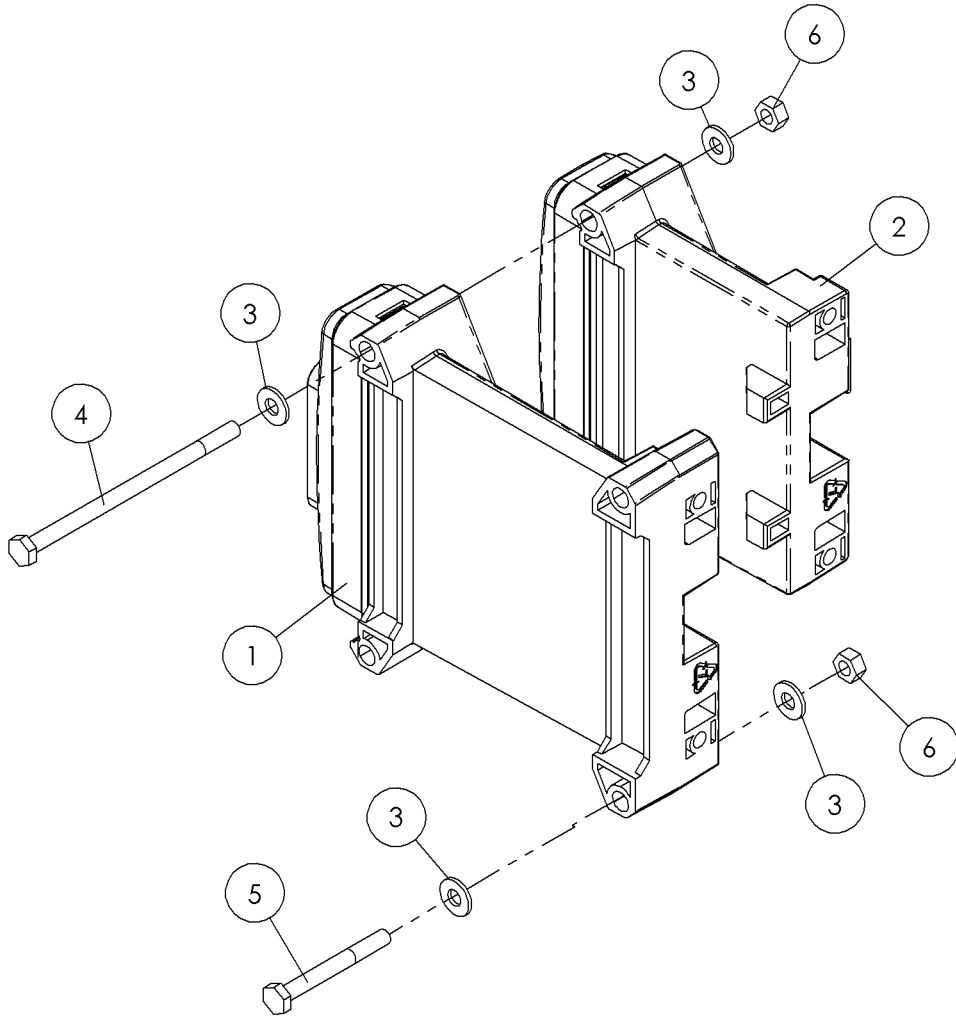
Remote Lockout-International Fig 9-13r01



Remote Lockout-International Fig 9-13r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272400	BATTERY - 1000MA NBB	1	
2		296272303	ASM - R309LK FOR HDD	1	
3		296272304	ASM - B309 BASE UNIT	1	
4		296272364	ANTENNA -915 MHZ, 3 dBI, 1/4 WAVE	1	
5		296272607	MOUNT-ANTENNA MOTOROLA TYPE RG-58-4'	1	
		296280372	KIT-REMOTE LOCKOUT-LK1DOMESTIC		Inc All Items 1, 3, and 4.
		296280992	REMOTE L/O ASSY - D36X50 II DOMESTIC		Inc All Items In Figure

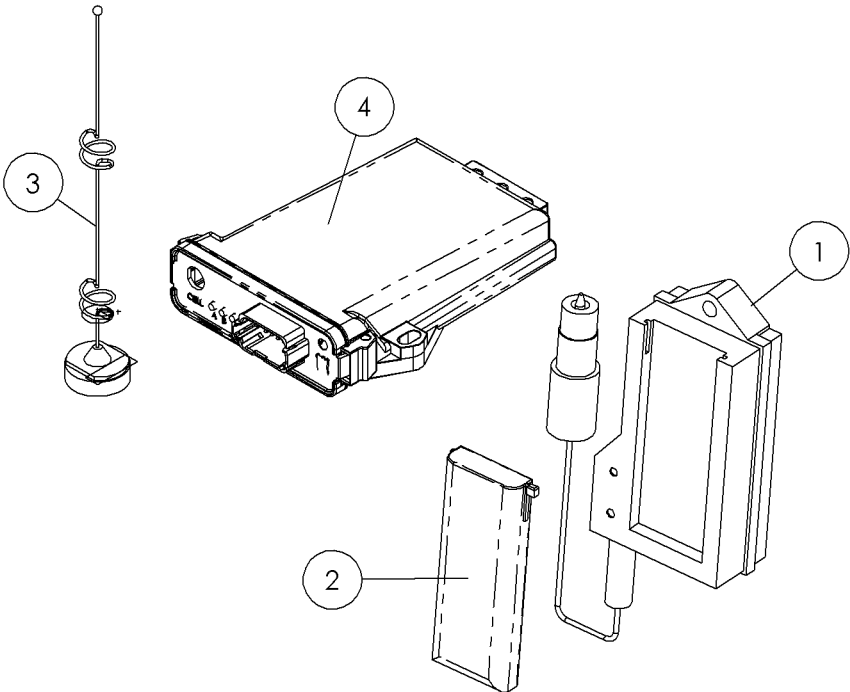
Controller W/Hardware Fig 9-13x01



Controller W/Hardware Fig 9-13x01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296286256	CONTROLER- MC050 PROGRAMMED-D36X50II	1	Order unprogram controller #296273863
2		296286260	CONTROLER-MC024 PROGRAMED-D36X50II	1	Order unprogram controller #296276084
3		252251001	WASHER-FLATSAE-.25-.28X.63-.06-CZ	8	
4		296258562	SCREW-HCS-.25-20X4.50-GR8-YZ	2	
5		250644001	SCREW-HCS-.25-20X2.25-GR8-YZ	2	
6		235732001	NUT-HEX-.25-20-GR8-YZ	4	

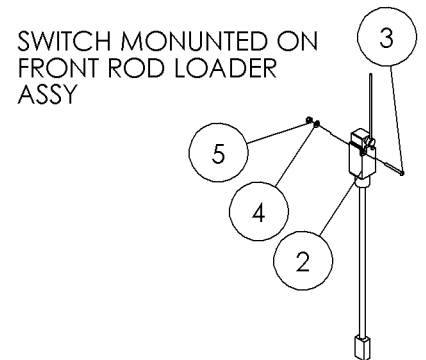
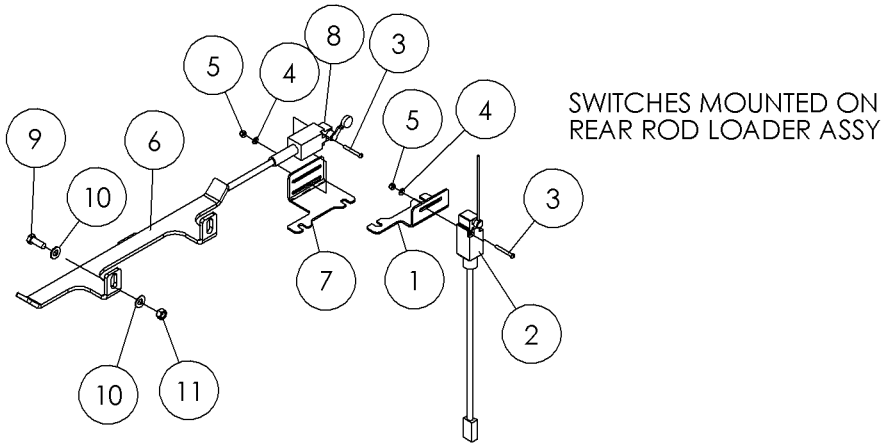
Remote Lockout-International Fig 9-13



Remote Lockout-International Fig 9-13

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272392	CHARGER, 12-VOLT NBB	1	
2		296272400	BATTERY - 1000MA NBB	1	
3		296272382	ANTENNA - 2400MHZ 1/4 WAVE	1	
4		296272509	B324LK1, HYDRAULIC STANDALONE INT	1	
		296280375	KIT-REMOTE LOCKOUT-LK1-INTERNATIONAL		Inc All Items In Figure

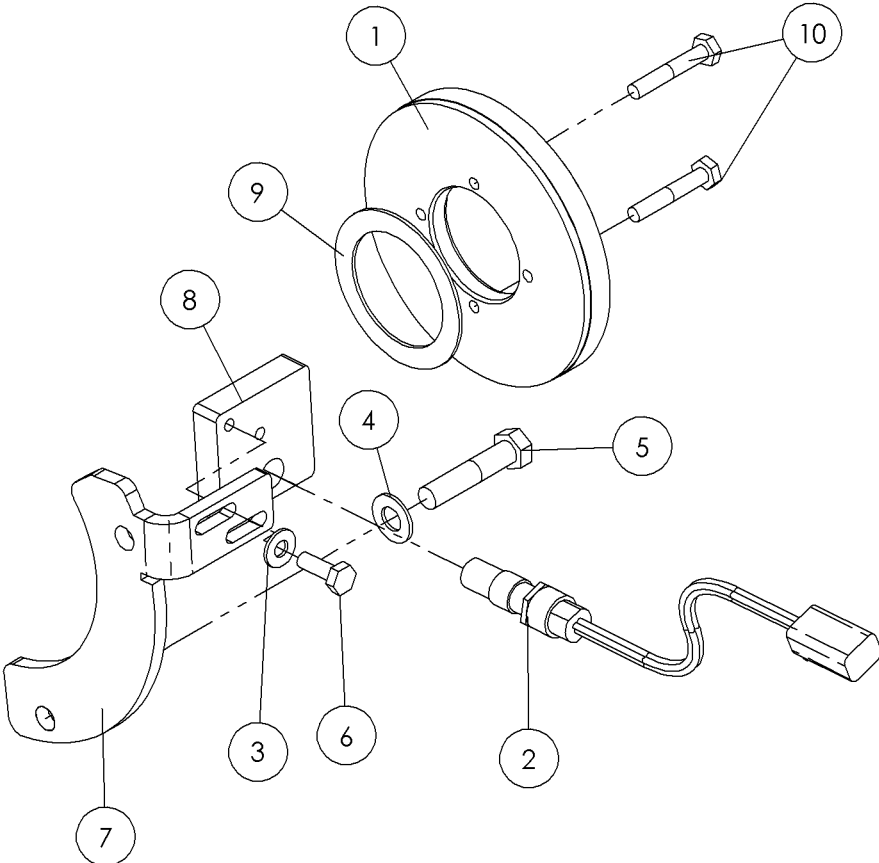
Rod Loader Switches Fig 9-14r01



Rod Loader Switches Fig 9-14r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296277042	PLATE - SWITCH MOUNT	1	
2		281844001	SWITCH - LIMIT NO/NC LEVER	2	
3		144654001	SCREW-#8-32 X 1 1/2 STOVE	6	
4		224769001	WASHER-#8 FLAT	6	
5		69759001	LOCK NUT-#8-32 NYLON INSERT PL	6	
6		296280174	PLATE - SWITCH MOUNT INDICATOR	1	
7		296280175	PLATE - SWITCH MOUNT	1	
8		276467001	SWITCH - LIMIT NO/NC LEVER/ROLLER	1	
9		235727001	BOLT-3/8-16X1 GR8 HEX ZYC	2	
10		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	4	
11		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	2	

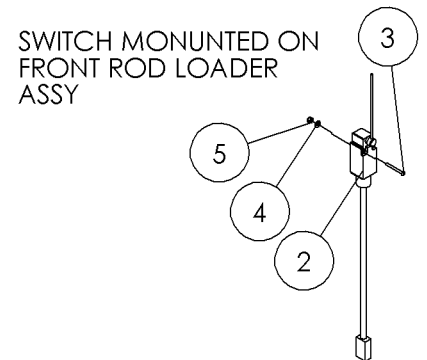
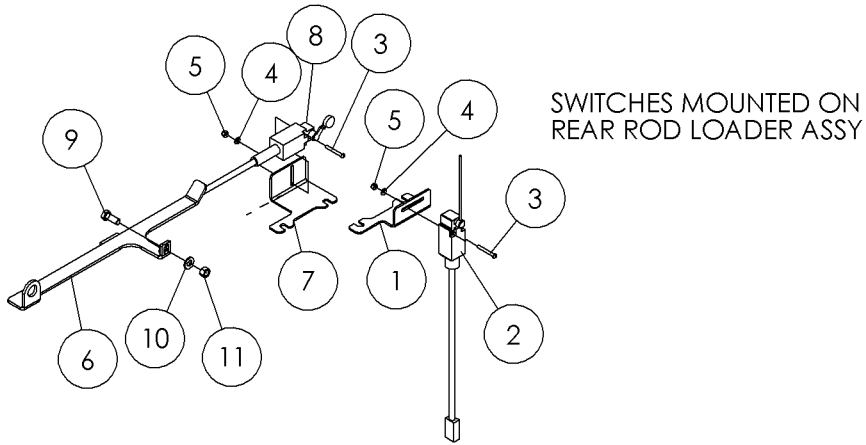
Mount W/PPU Fig 9-14x01



Mount W/PPU Fig 9-14x01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296286252	ASSY- PPU- D36X50II	1	
2		296281808	PULSE PICKUP SENSOR	1	
3		235716001	WASHER-FLATSTRL-.25-.28X.63-.06-CZ	2	
4		235713001	WASHER-FLATSTRL-.38-.41X.81-.06-YZ-A325	2	
5		235720001	SCREW-HCS-.38-16X1.75-GR8-YZ	2	
6		235734001	SCREW-HCS-.25-20X.75-GR8-YZ	2	
7		296265381	MOUNT - PULSE PICKUP 36X50II	1	
8		296265451	THD PLATE- 9/16-18	1	
9		296286253	WASHER- 1.96 X 2.68 X .093 - (BUNA-N)	1	
10		238210001	SCREW-HCS-.25-20X1.50-GR8-YZ	2	

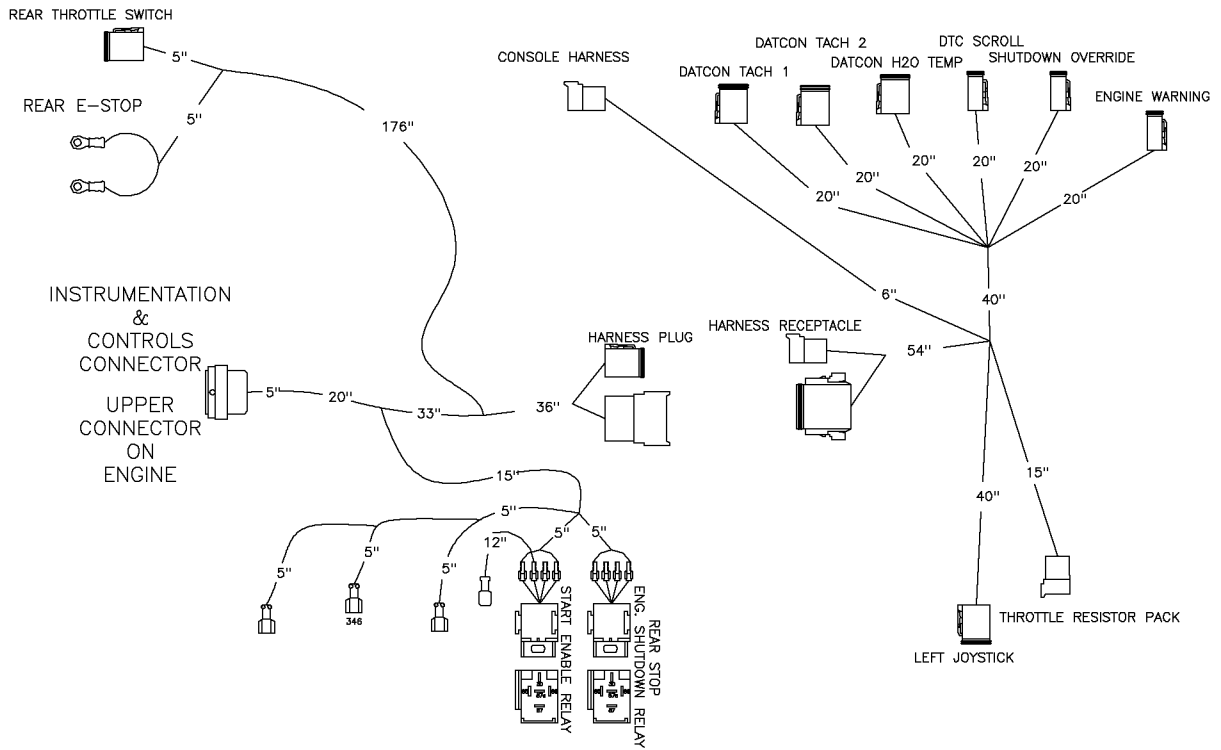
Rod Loader Switches Fig 9-14



Rod Loader Switches Fig 9-14

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296277042	PLATE - SWITCH MOUNT	1	
2		281844001	SWITCH - LIMIT NO/NC LEVER	2	
3		144654001	SCREW-#8-32 X 1 1/2 STOVE	6	
4		224769001	WASHER-#8 FLAT	6	
5		69759001	LOCK NUT-#8-32 NYLON INSERT PL	6	
6		296280174	PLATE - SWITCH MOUNT INDICATOR	1	
7		296280175	PLATE - SWITCH MOUNT	1	
8		276467001	SWITCH - LIMIT NO/NC LEVER/ROLLER	1	
9		235727001	BOLT-3/8-16X1 GR8 HEX ZINC PLT	1	
10		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	2	
11		250508001	NUT - 3/8-NC Gr8 TOP LOCK Y/ZINC	1	

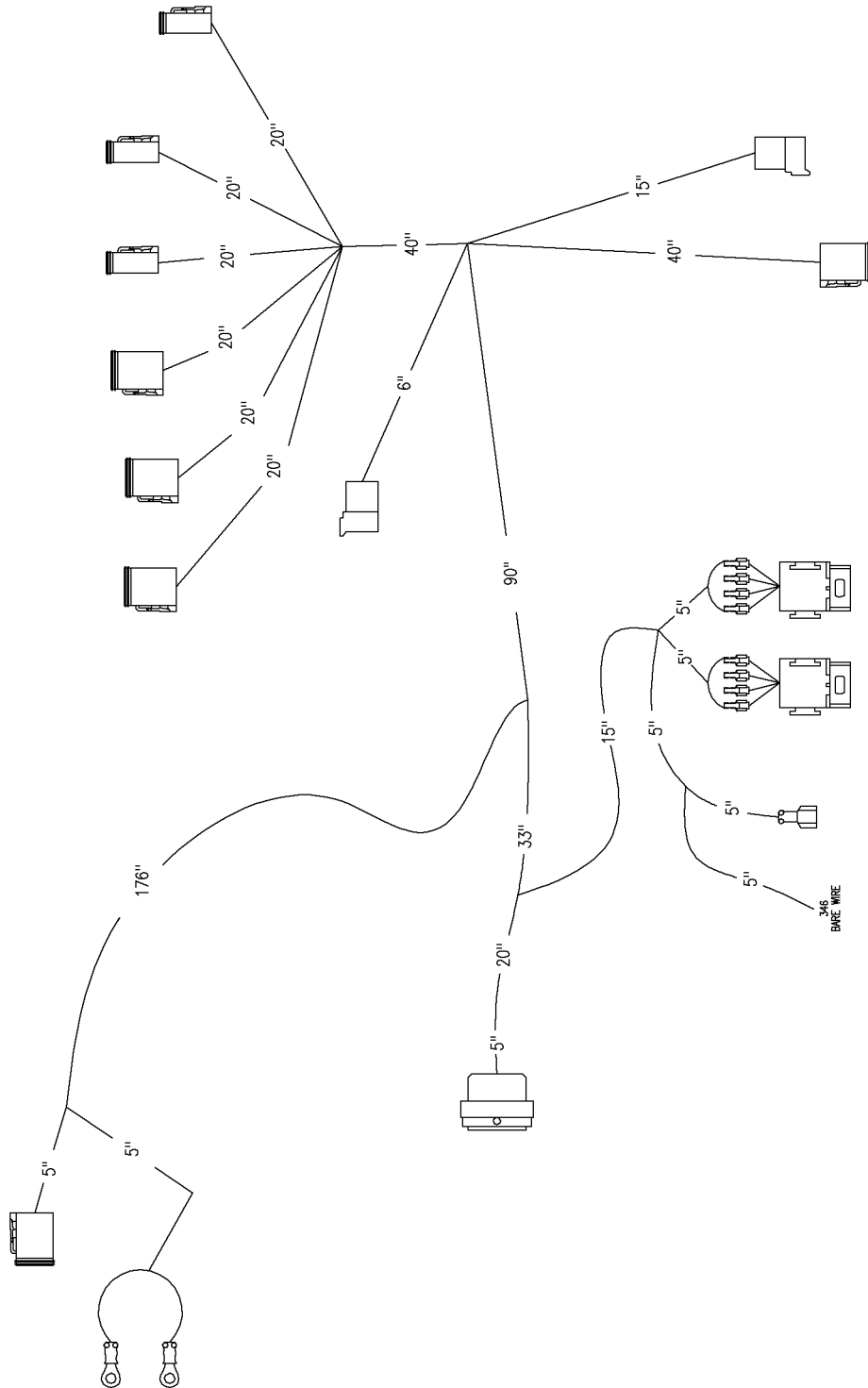
Harness-Deere 4045H 140 HP Fig 9-15r01



Harness-Deere 4045H 140 HP Fig 9-15r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
		296269649	HARNESS-DEERE 4045H 140 HP	1	

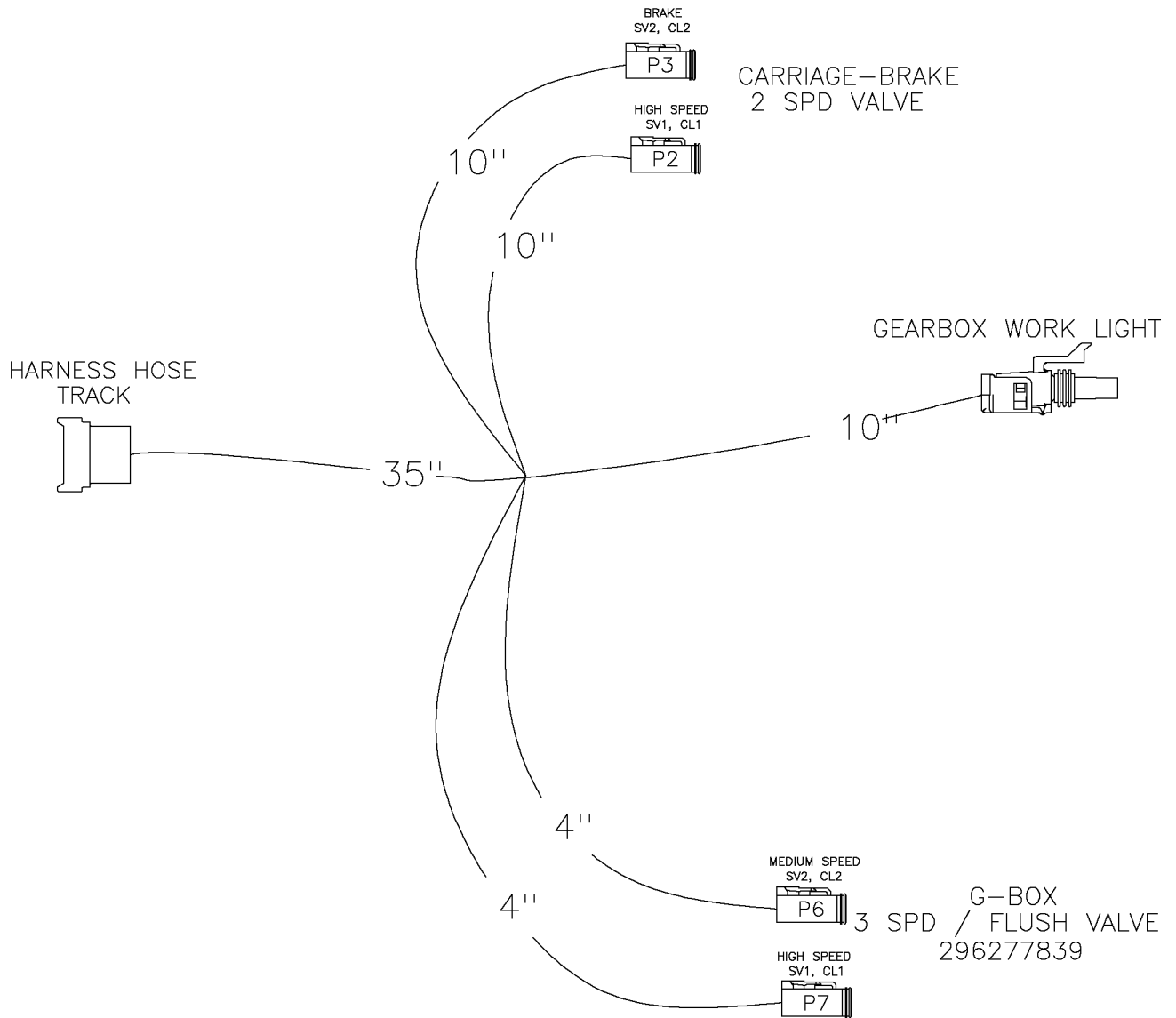
Harness-Deere 4045H 140 HP Fig 9-15



Harness-Deere 4045H 140 HP Fig 9-15

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269649	HARNESS-DEERE 4045H 140 HP	1	

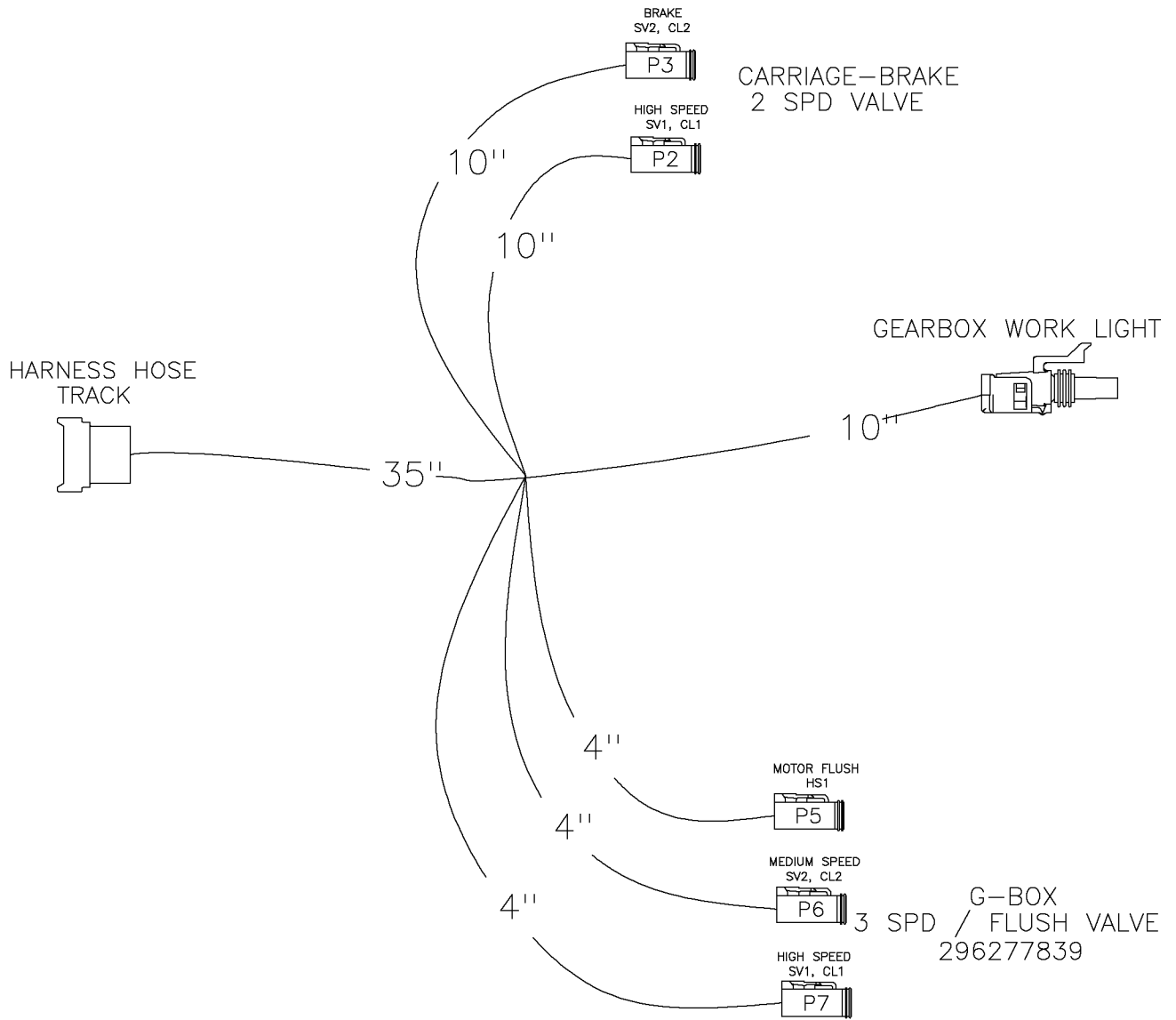
Harness-Rotation Gearbox Fig 9-16r02



Harness-Rotation Gearbox Fig 9-16r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
		296269650	HARNESS-ROTATION GEARBOX	1	

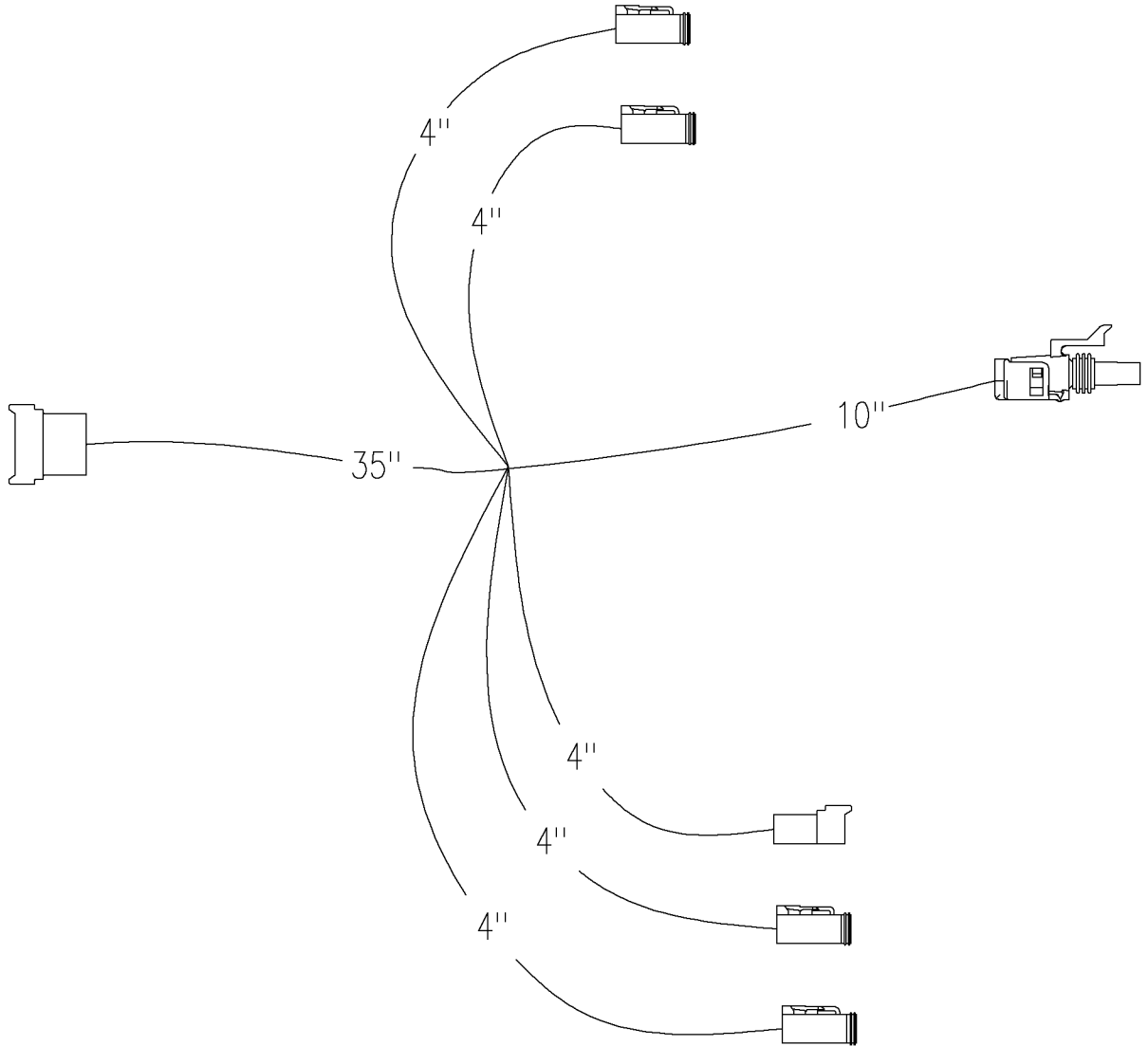
Harness-Rotation Gearbox Fig 9-16r01



Harness-Rotation Gearbox Fig 9-16r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
		296269650	HARNESS-ROTATION GEARBOX	1	

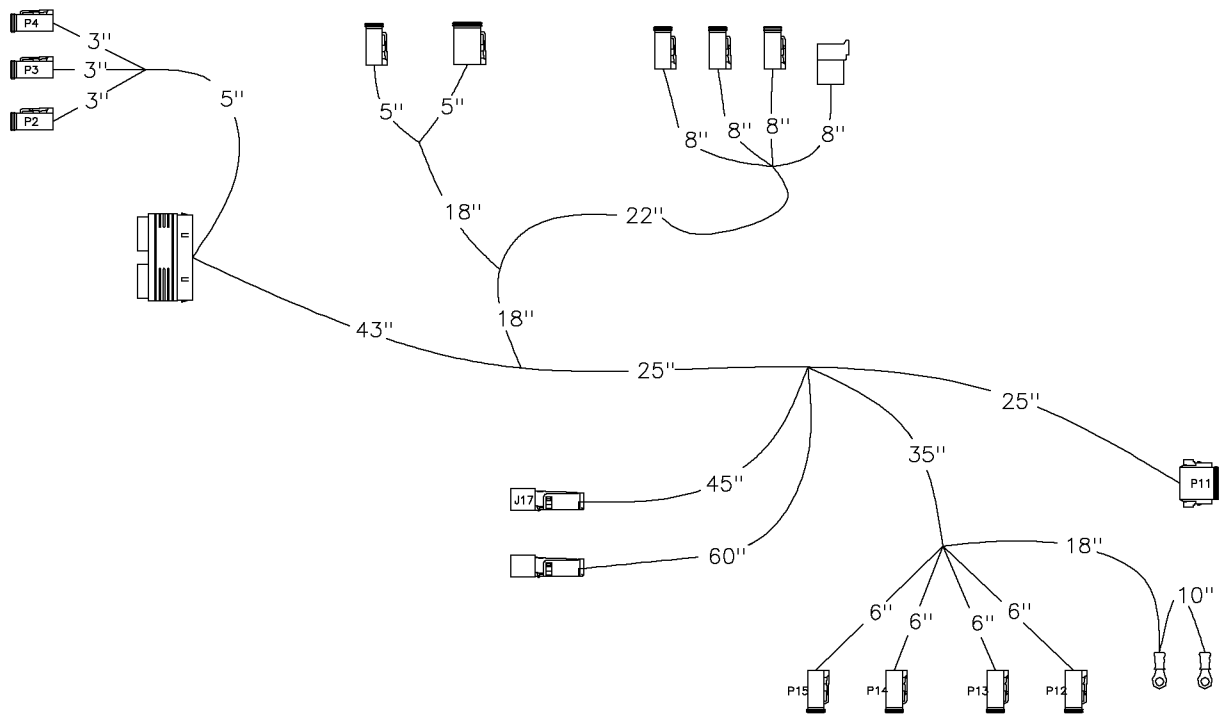
Harness-Rotation Gearbox Fig 9-16



Harness-Rotation Gearbox Fig 9-16

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269650	HARNESS-ROTATION GEARBOX	1	

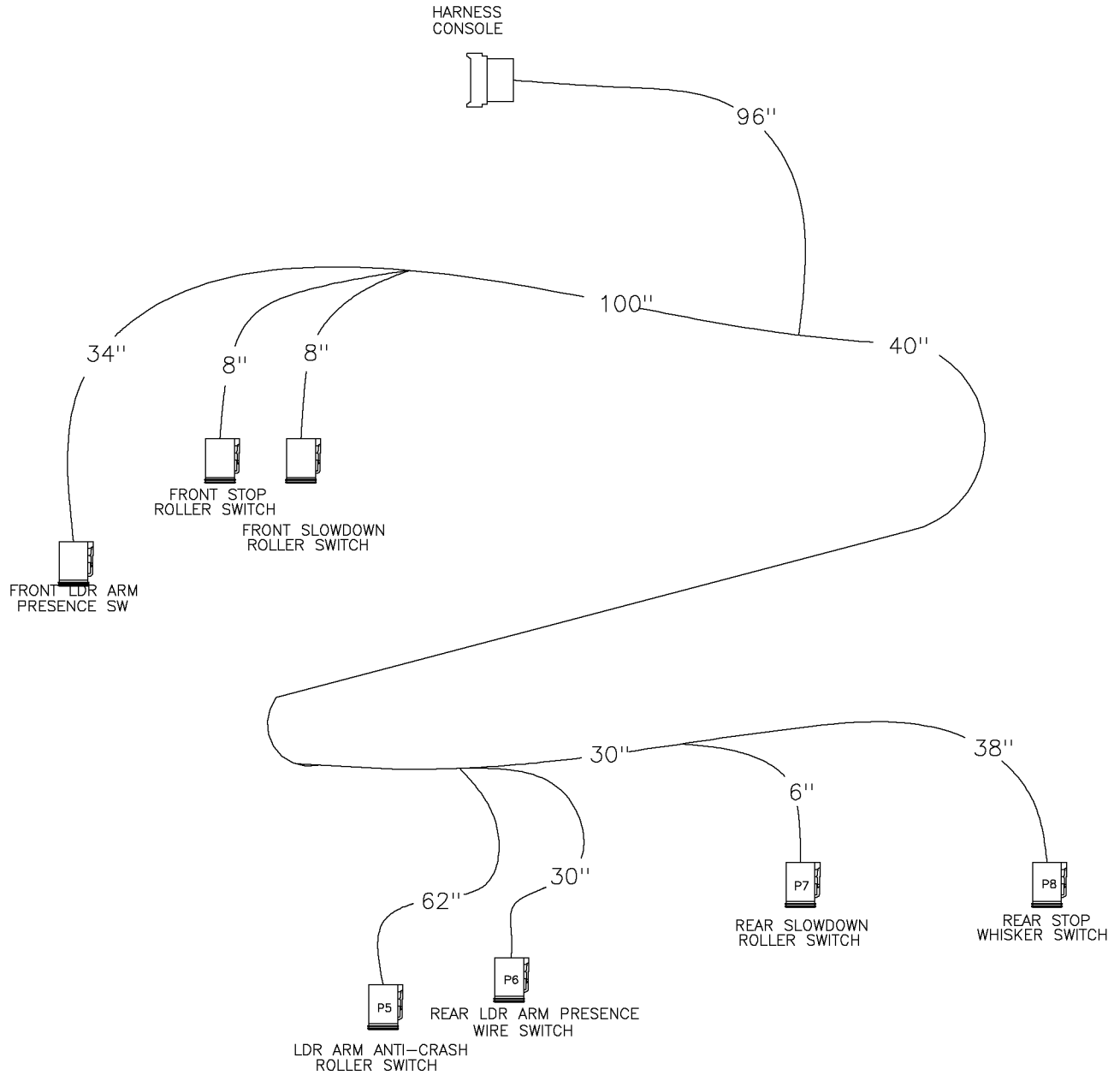
Harness-Engine Bay Fig 9-17



Harness-Engine Bay Fig 9-17

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269652	HARNESS-ENGINE BAY	1	

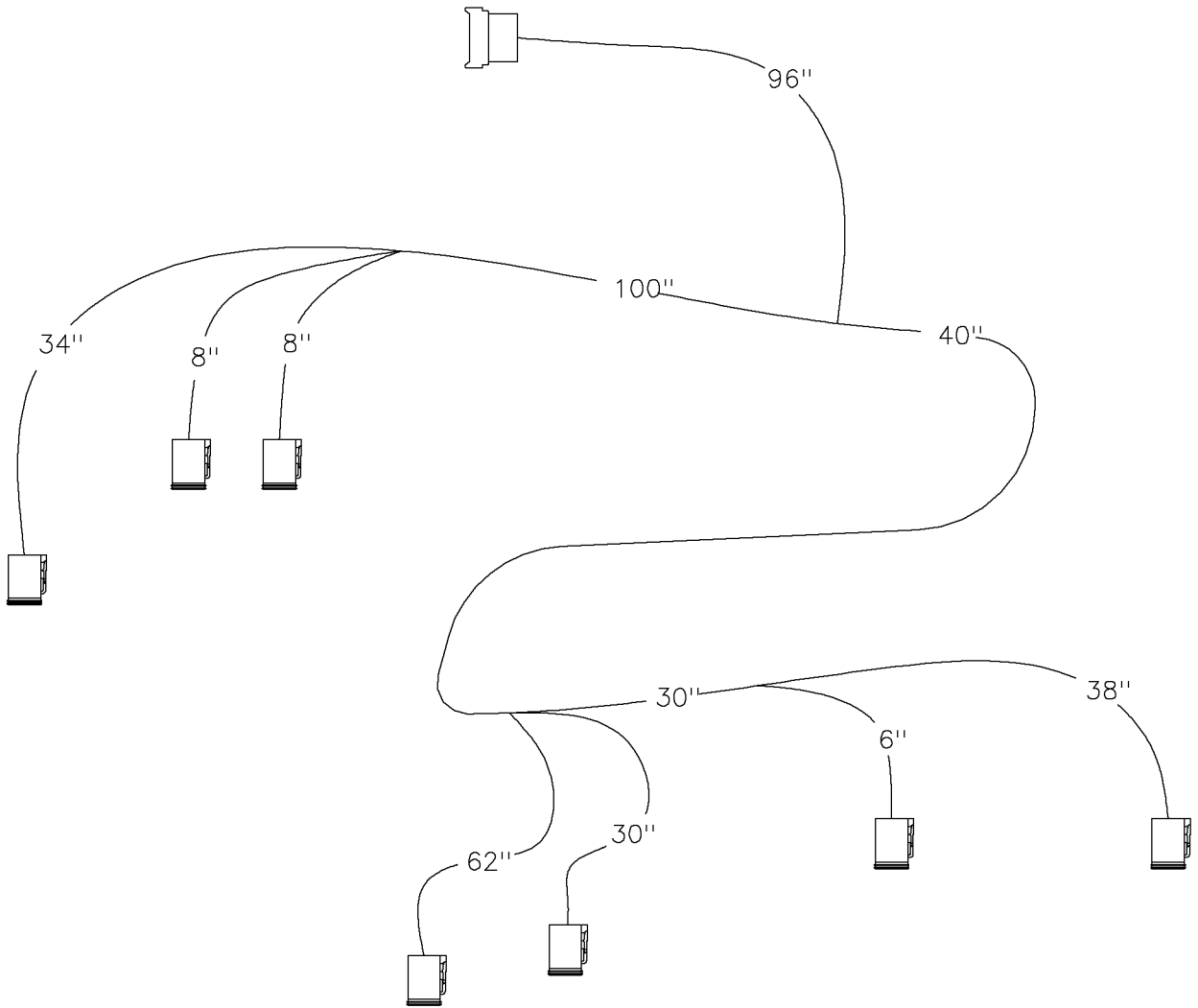
Harness-Thrust, Slowdown, Stop, Crash Fig 9-18r01



Harness-Thrust, Slowdown, Stop, Crash Fig 9-18r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
		296269653	HARNES-THRUST SLOWDOWN, STOP, CRASH	1	

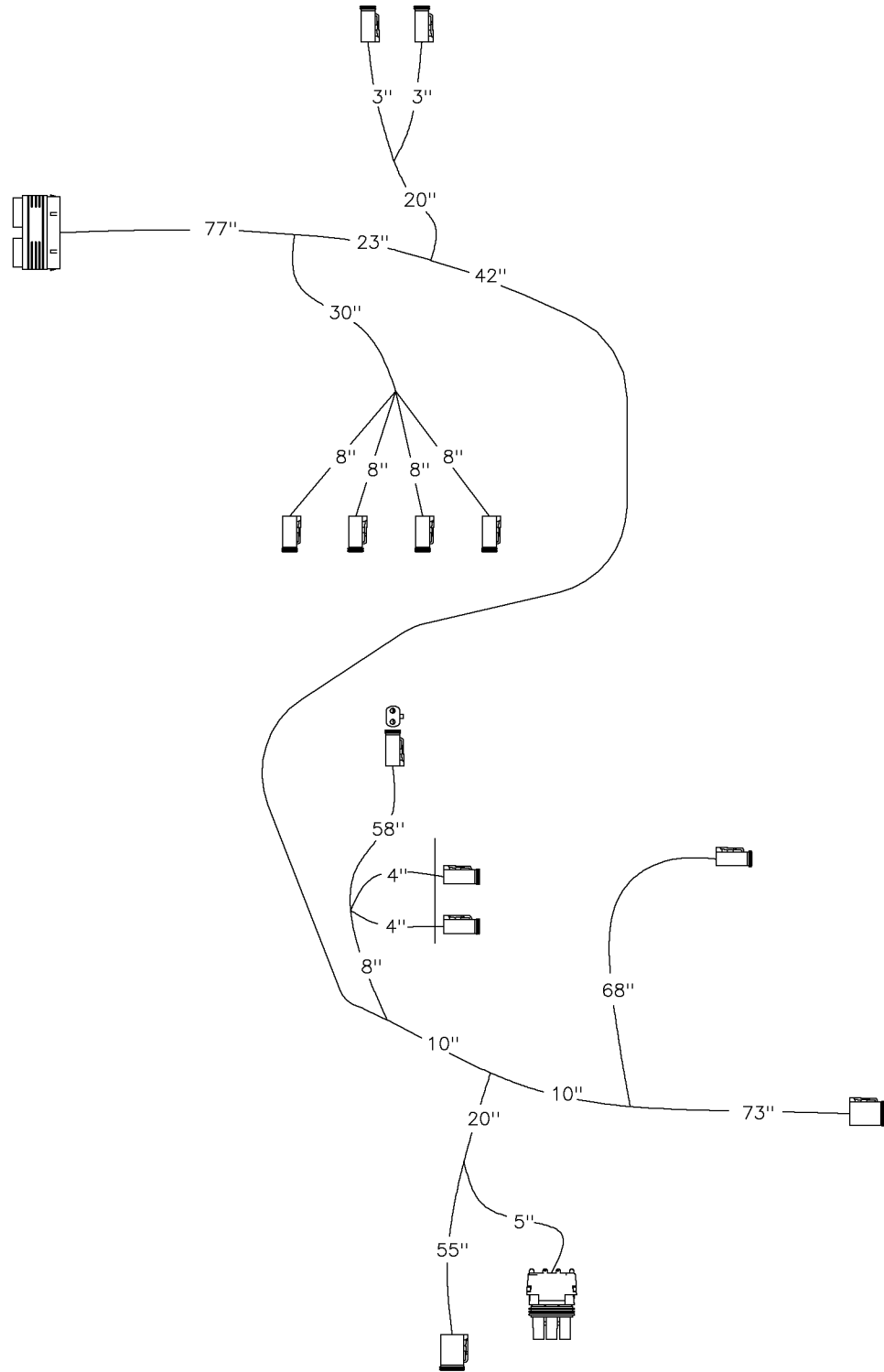
Harness-Thrust, Slowdown, Stop, Crash Fig 9-18



Harness-Thrust, Slowdown, Stop, Crash Fig 9-18

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269653	HARNES-THRUST SLOWDOWN, STOP, CRASH	1	

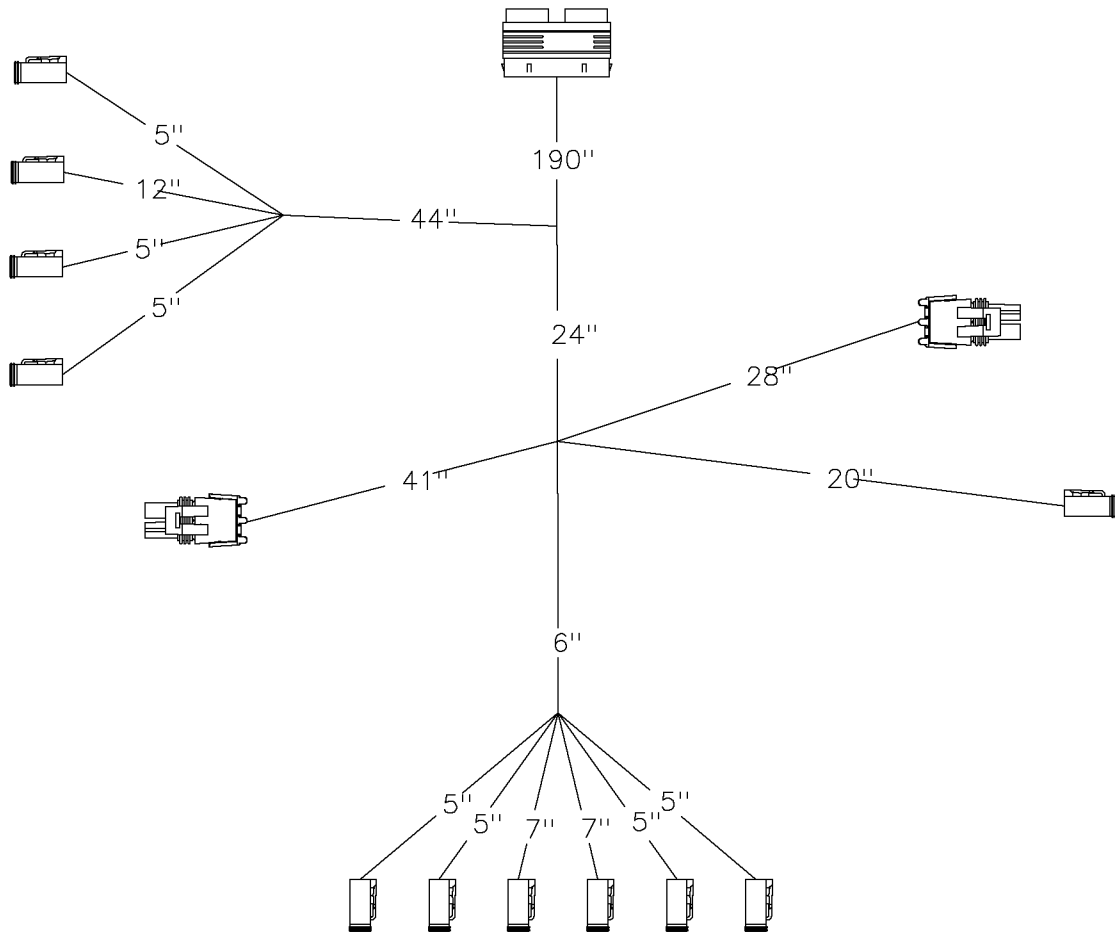
Harness-Outrigger, Fuel, H2O, Rod Loader Fig 9-19



Harness-Outrigger, Fuel, H2O, Rod Loader Fig 9-19

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269654	HARNESS-OUTRIGGER, FUEL, H2O, RD LOADER	1	

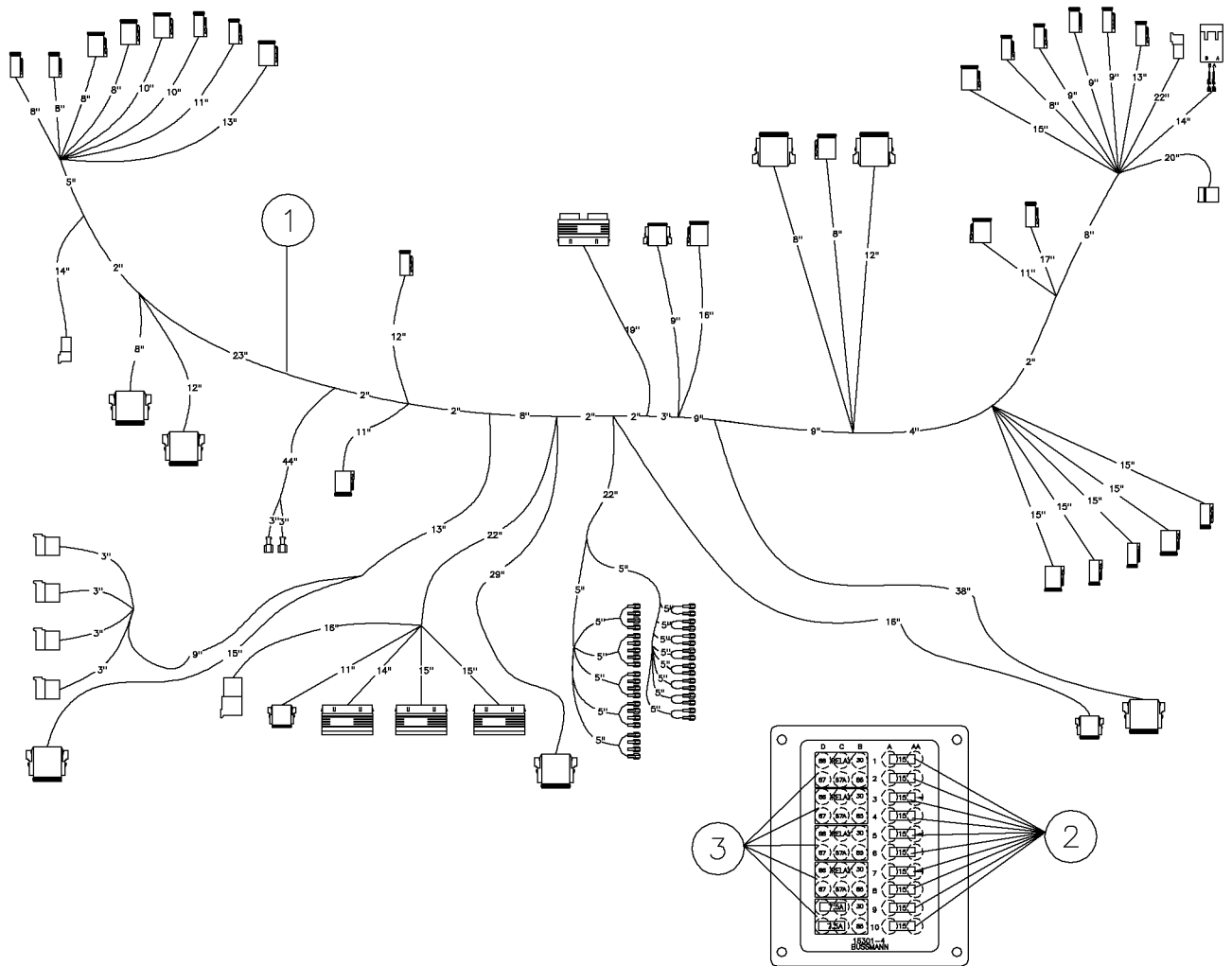
Harness-Stakedown, Vise, Grease, Lights Fig 9-20



Harness-Stakedown, Vise, Grease, Lights Fig 9-20

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269571	HARNESS-STAKEDOWN, VISE, GREASE, LIGHTS	1	

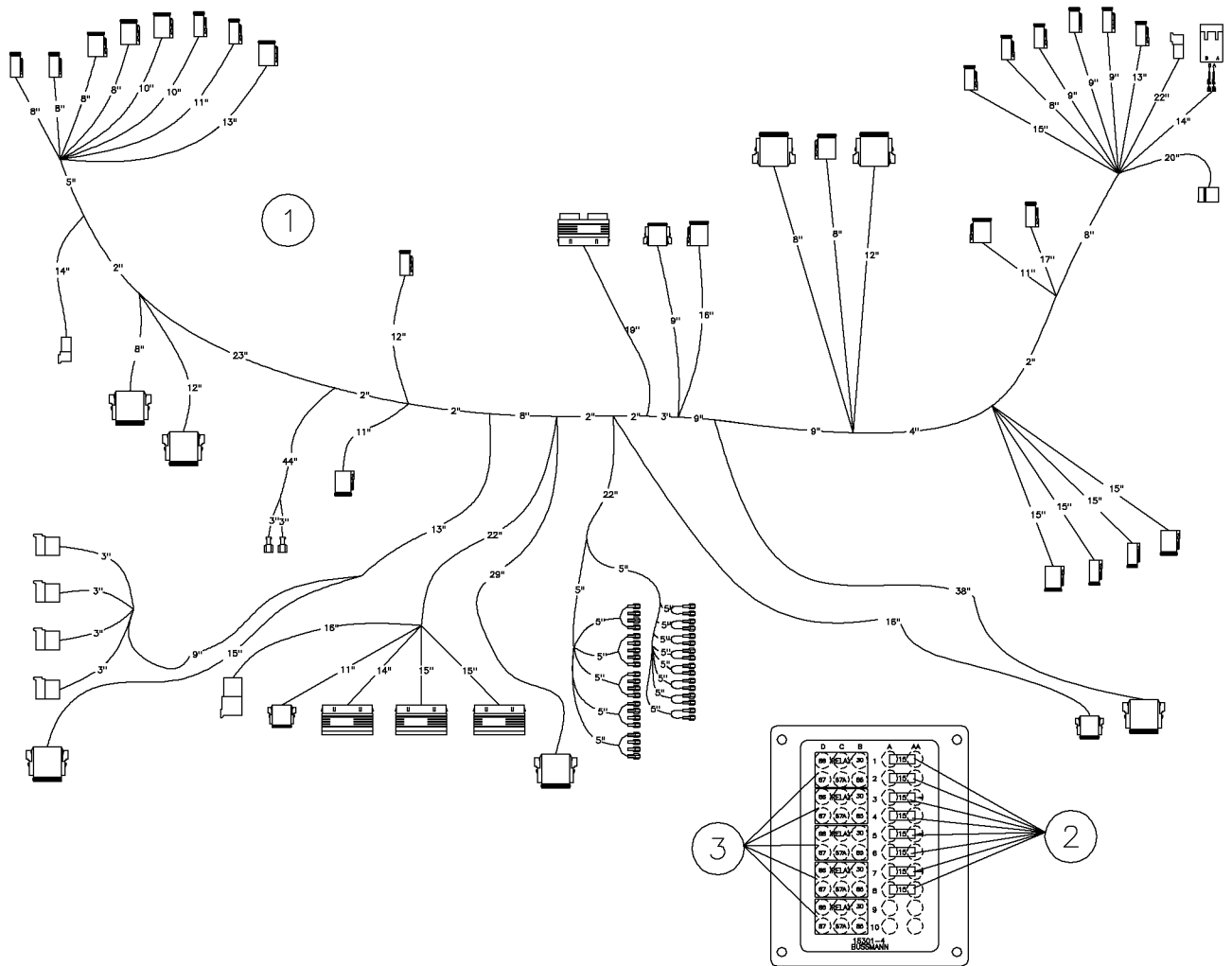
Harness-Console D36x50 Series II Fig 9-21r02



Harness-Console D36x50 Series II Fig 9-21r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296286481	HARNESS - CONSOLE - D24/D36	1	
2		296285130	THERMAL BREAKER	12	
3		296277636	RELAY-MICRO 280 SERIES	5	

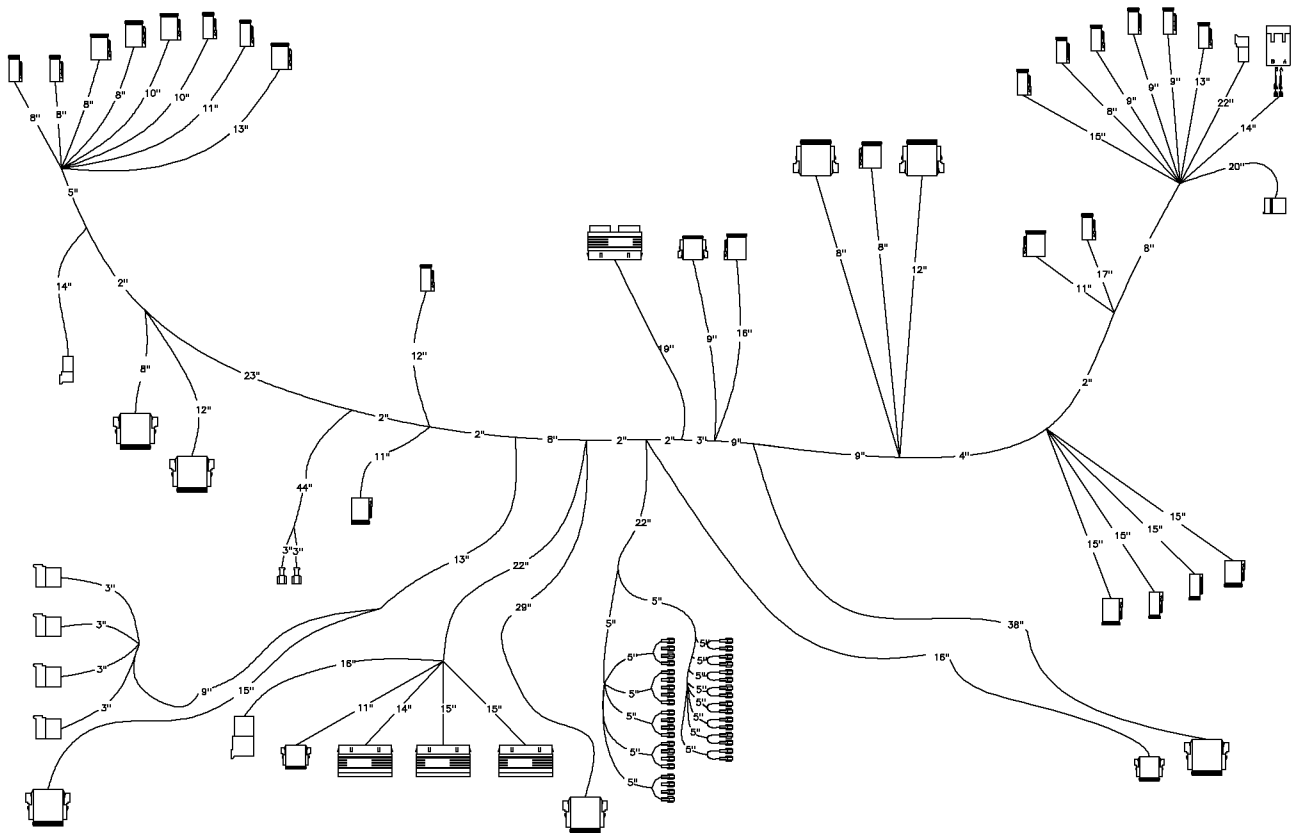
Harness-Console D36x50 Series II Fig 9-21r01



Harness-Console D36x50 Series II Fig 9-21r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Illustration & Parts List.
1		296269656	HARNESS-CONSOLE D36X50 SERIES II	1	
2		296285130	THERMAL BREAKER	10	
3		296277636	RELAY-MICRO 280 SERIES	5	

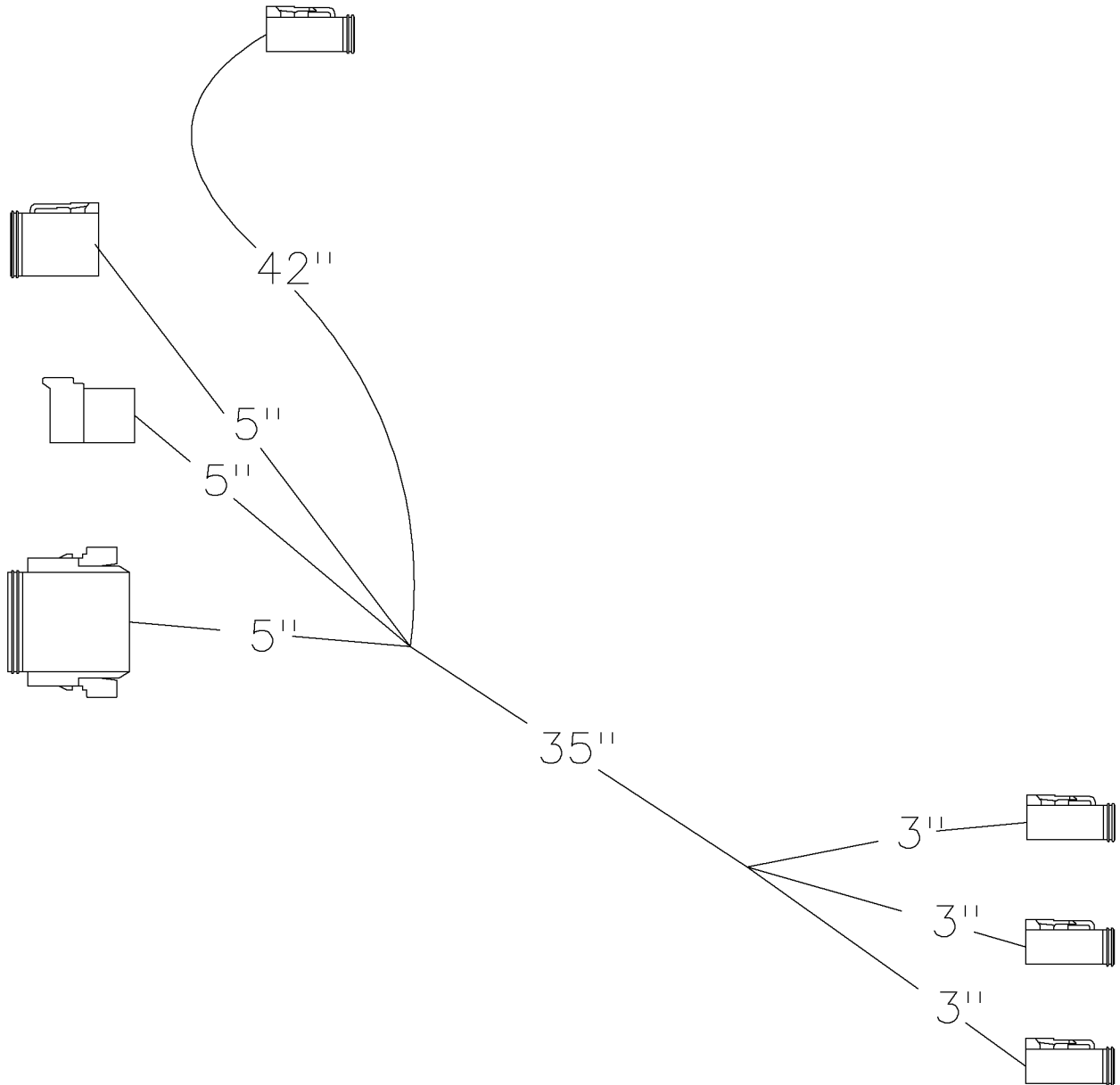
Harness-Console D36x50 Series II Fig 9-21



Harness-Console D36x50 Series II Fig 9-21

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269656	HARNESS-CONSOLE D36X50 SERIES II	1	

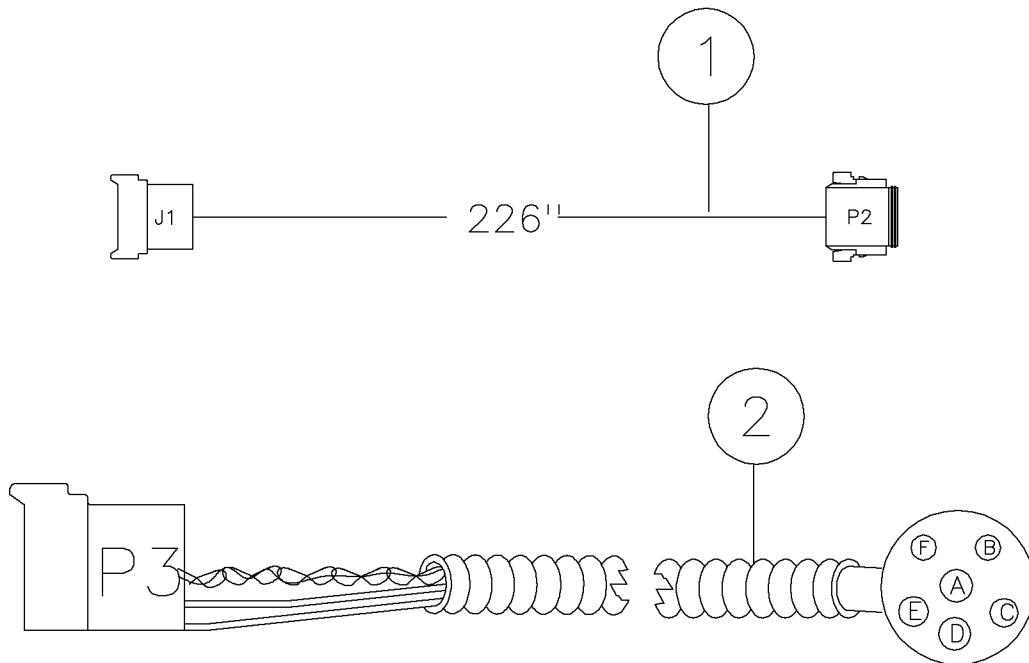
Harness-Strike Alert Fig 9-22



Harness-Strike Alert Fig 9-22

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269658	HARNESS-STRIKE ALERT	1	

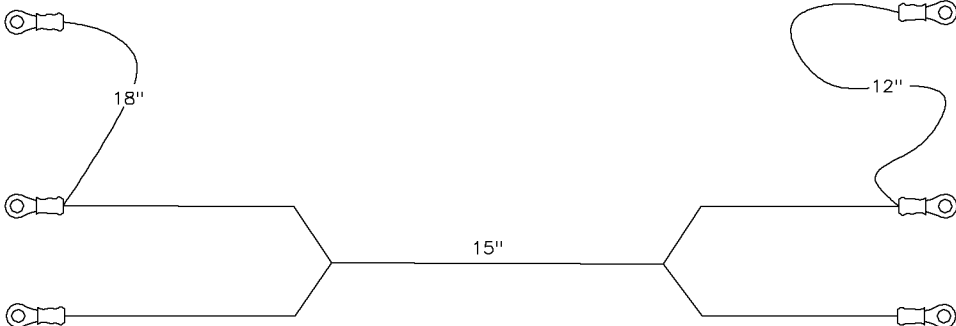
Harness-Hose Track/Strike Alert Fig 9-23



Harness-Hose Track/Strike Alert Fig 9-23

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296269651	WIRE HARNESS - HOSE TRACK	1	
2		296280266	WIRE HARNESS-STRIKE ALERT COIL	1	

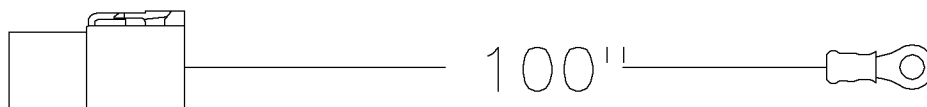
Harness-Starter Relay, Power Fig 9-24



Harness-Starter Relay, Power Fig 9-24

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269644	WIRE HARNESS STARTER RELAY, POWER	1	

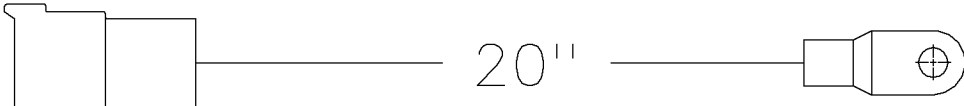
Harness-Main Power Fig 9-25



Harness-Main Power Fig 9-25

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269637	WIRE HARNESS - MAIN POWER	1	

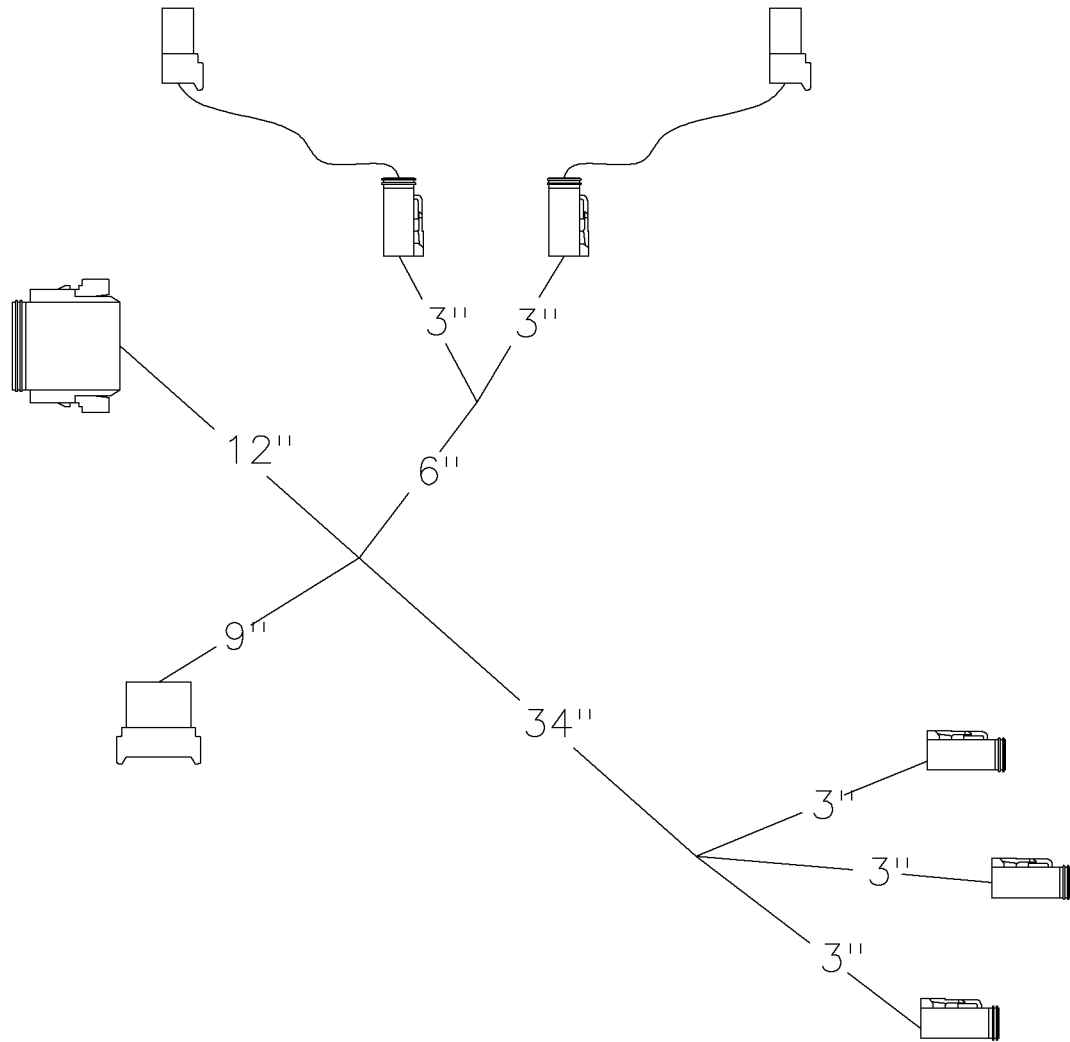
Harness-Ground Lead Fig 9-26



Harness-Ground Lead Fig 9-26

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269638	WIRE HARNESS - GROUND LEAD	1	

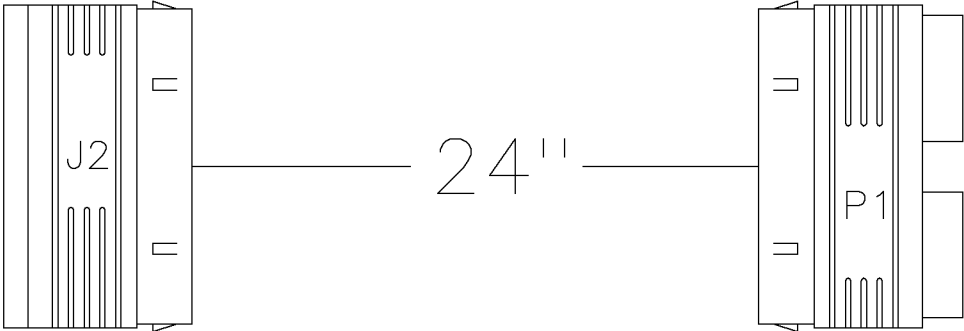
Harness-Remote Lockout Fig 9-27



Harness-Remote Lockout Fig 9-27

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269663	WIRE HARNESS - REMOTE LOCKOUT	1	

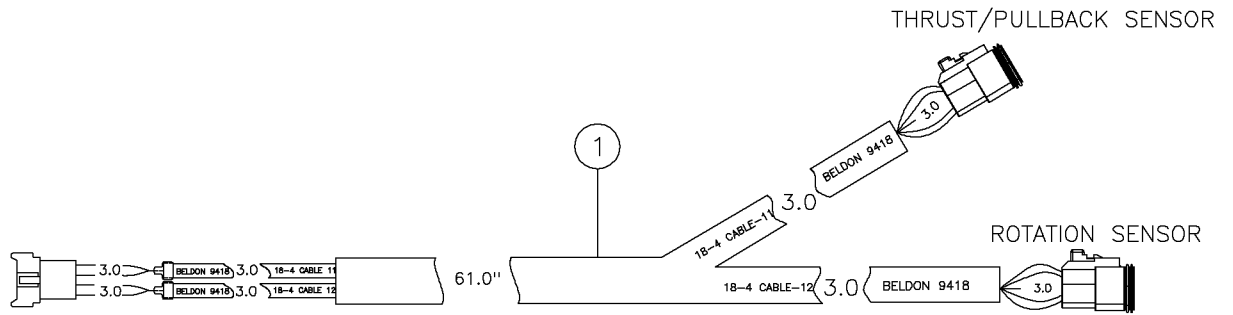
Harness-Jumper Fig 9-28



Harness-Jumper Fig 9-28

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296269655	WIRE HARNESS - JUMPER	1	

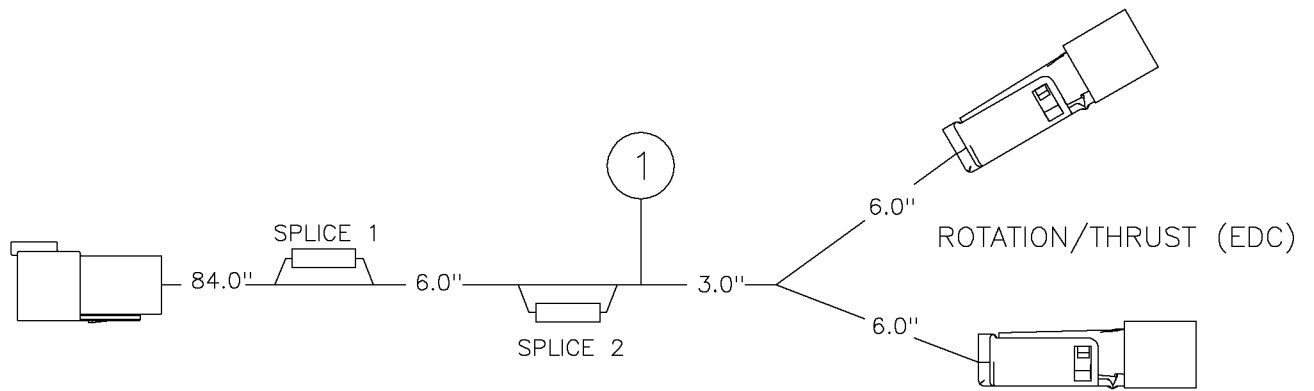
Harness-Thrust/Rotation Pressure Sensor Fig 9-29



Harness-Thrust/Rotation Pressure Sensor Fig 9-29

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296286491	HARNESS - THRUST/ROT.PRESSURE SENSOR	1	

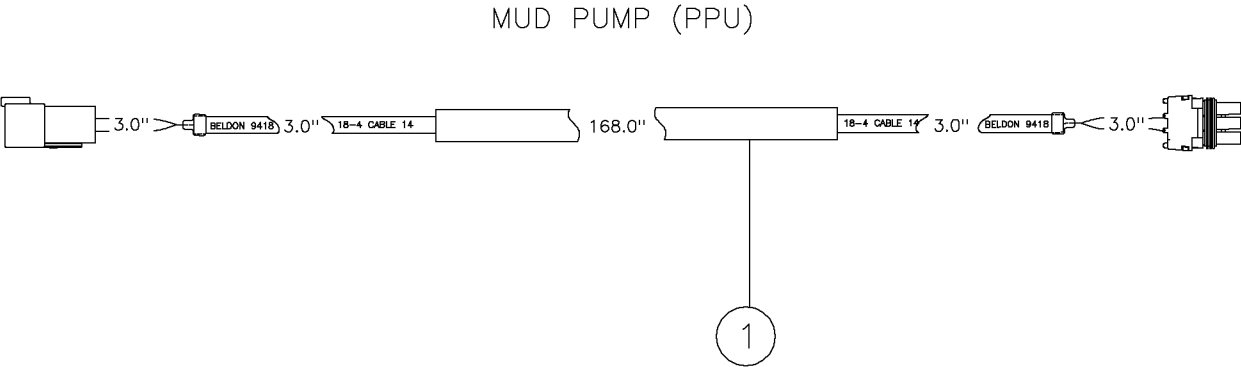
Harness-Rotation/Thrust EDC Fig 9-30



Harness-Rotation/Thrust EDC Fig 9-30

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296286492	HARNESS - ROT/THRUST EDC	1	

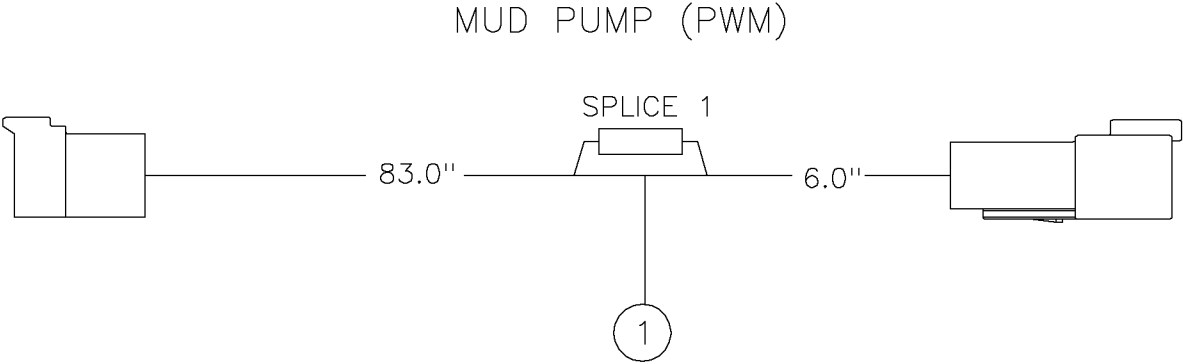
Harness-Mud Pump (PPU) Fig 9-31



Harness-Mud Pump (PPU) Fig 9-31

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296286493	HARNESS - MUD PUMP PPU	1	

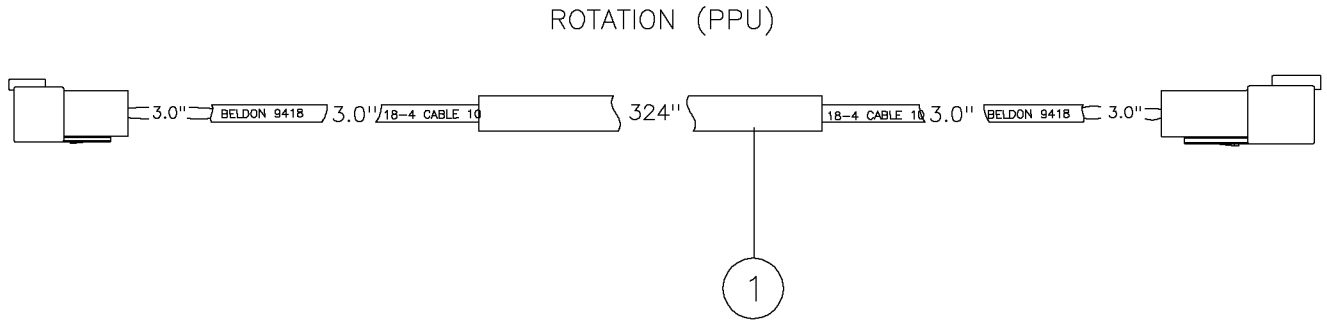
Harness-Mud Pump (PWM) Fig 9-32



Harness-Mud Pump (PWM) Fig 9-32

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296286494	HARNESS - MUD PUMP PWM	1	

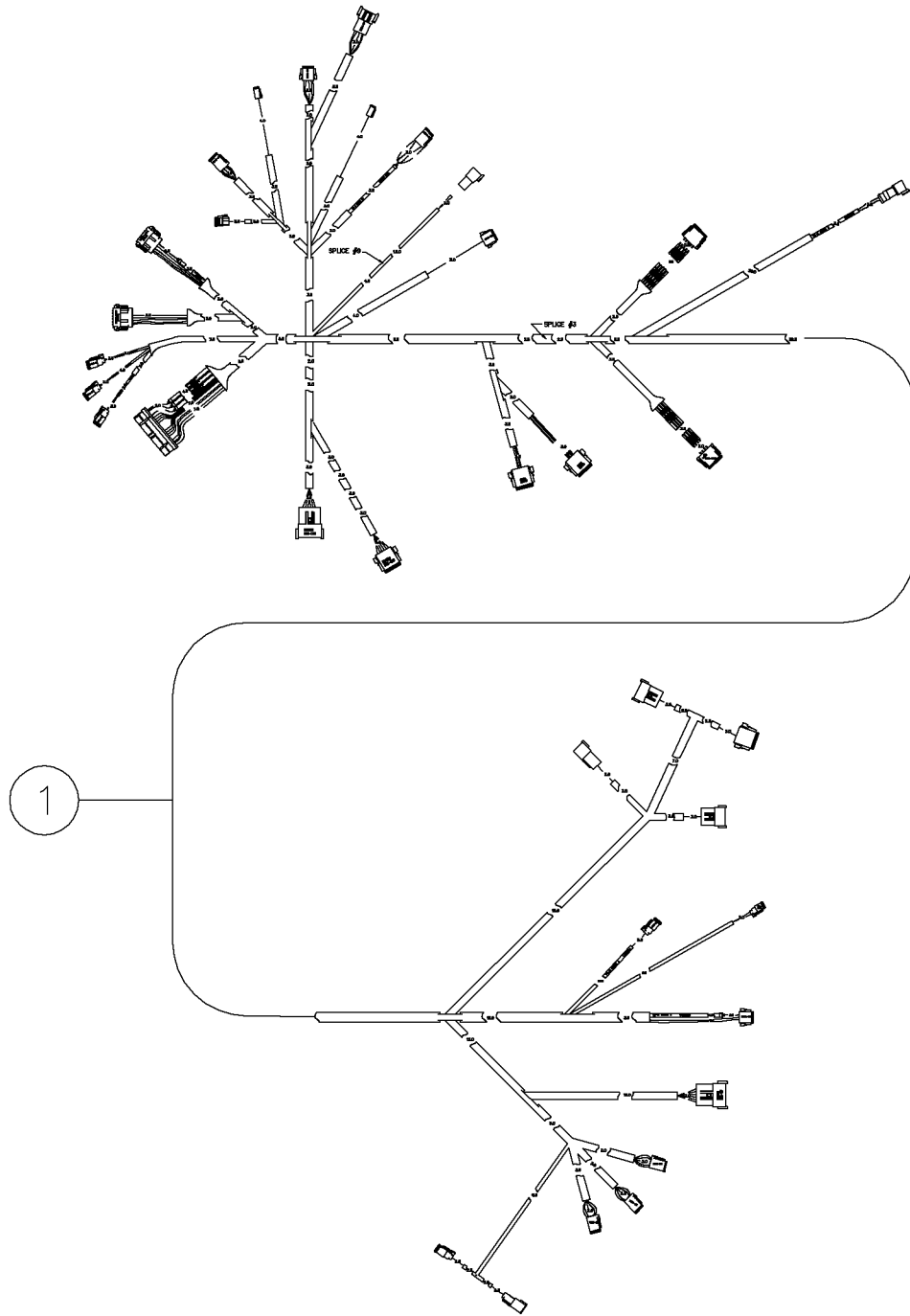
Harness-Rotation (PPU) Fig 9-33



Harness-Rotation (PPU) Fig 9-33

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296286495	HARNESS - ROTATION (PPU)	1	

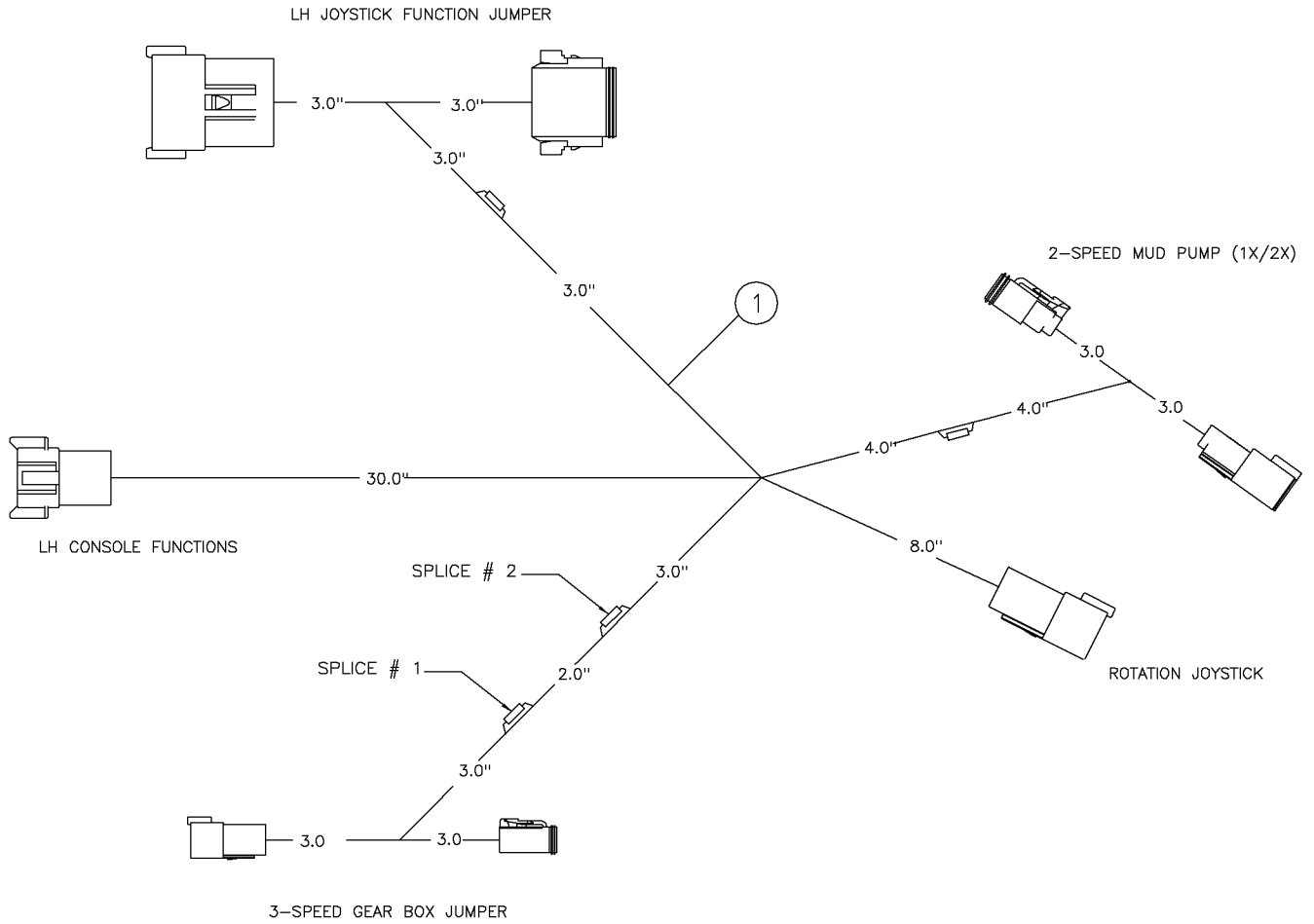
Harness-Controller Fig 9-34



Harness-Controller Fig 9-34

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296286498	HARNESS - CONTROLLER	1	

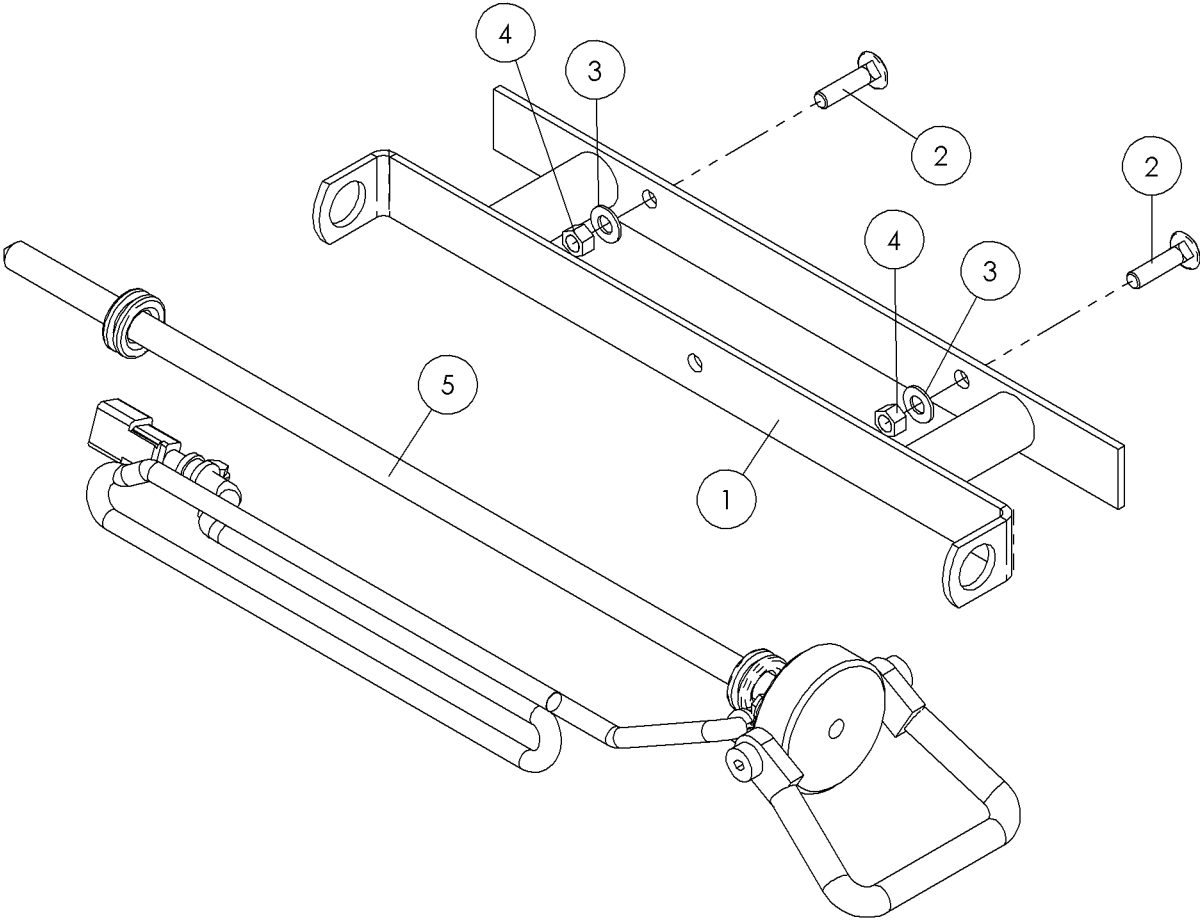
Harness-LH Console Fig 9-35



Harness-LH Console Fig 9-35

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296286500	HARNESS - LH CONSOLE	1	

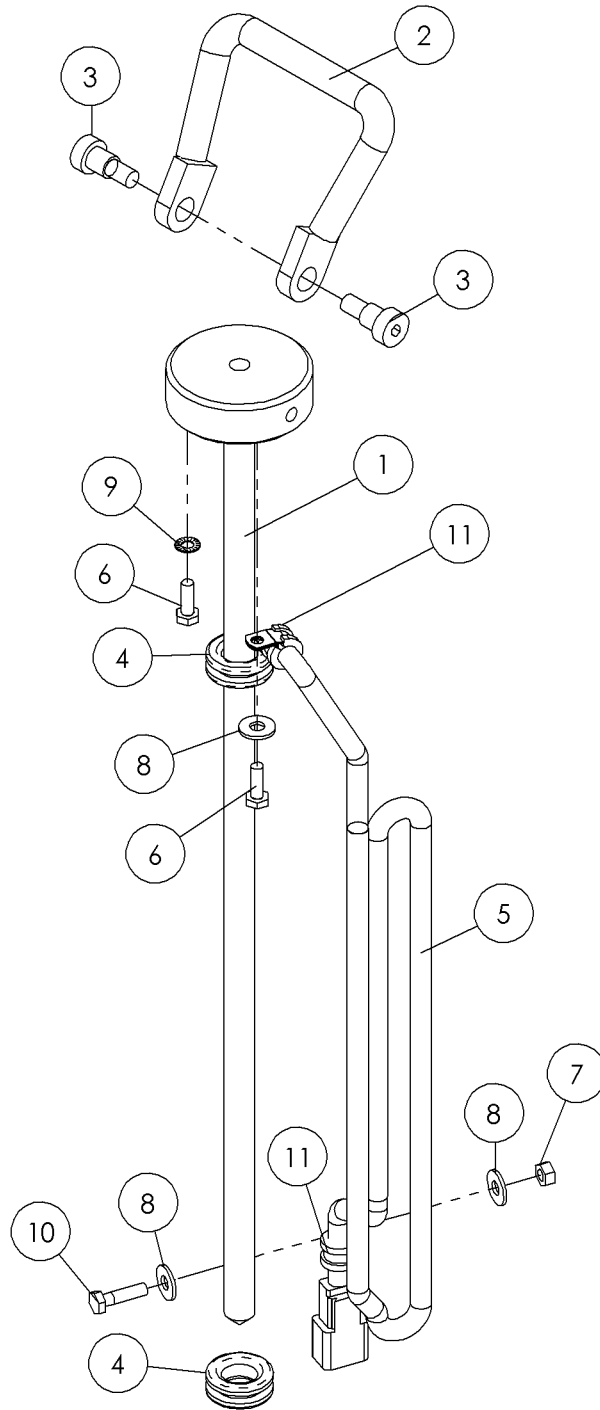
Voltage Stake Fig 10-1



Voltage Stake Fig 10-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		240791001	BRACKET-VOLTAGE STAKE	1	
2		510308114	BOLT-CARG-.38-16X1.50-GR5-YZ	2	
3		235713001	WASHER - FLATSTRL - .38 - .41 X .81 - .06-YA-A325	2	
4		235725001	NUT - HEX - .38 - 16 - GR8 - YZ	2	
5		296273406	ASSEMBLY - VOLTAGE STAKE	1	Breakdown Fig. 10-2

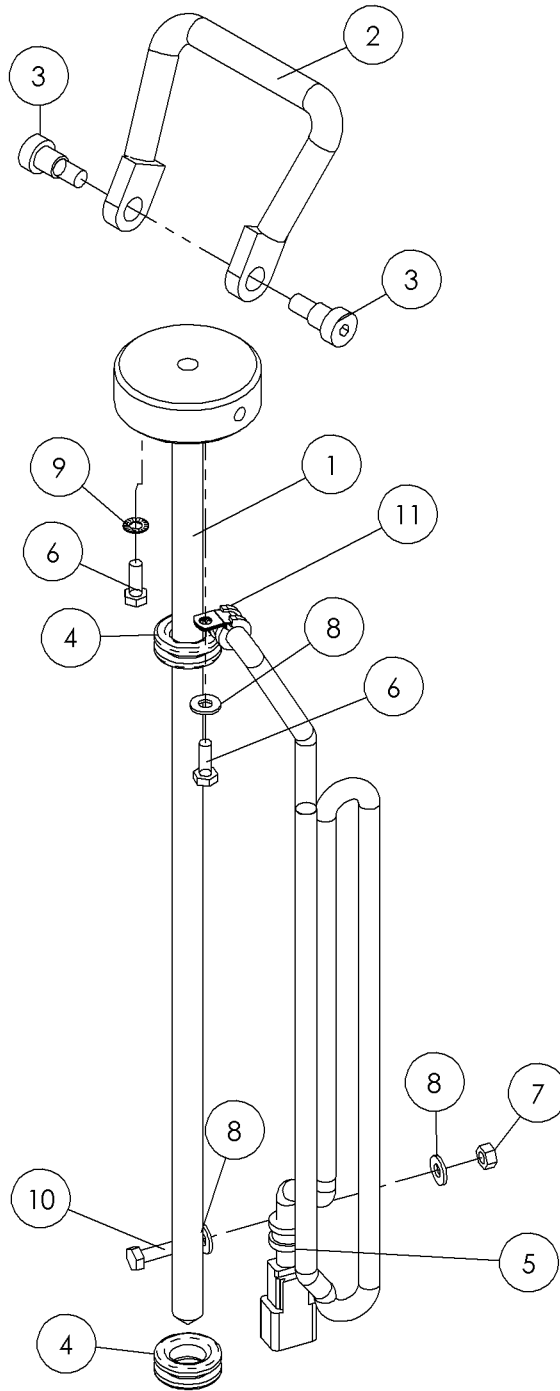
Voltage Stake Components Fig 10-2r01



Voltage Stake Components Fig 10-2r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296275119	STAKE - VOLTAGE	1	Breakdown Fig. 10-2
2		234164001	HANDLE - VOLTAGE STAKE	1	
3		240056001	SCREW-1/2X1/2 SOCKET SHOULDER	2	
4		1865043	GROMMET-.75ID X 1.38OD - .19 GROOVE	2	
5		296275117	CABLE - 6/2GA - 23 FT W/ LUGS	1	
6		235734001	SCREW-HCS-.25-20X.75-GR8-YZ	3	
7		235732001	NUT-HEX-.25-20-GR8-YZ	1	
8		510337603	WASHER-FLATSTD-.25-.31X.75-.07-YZ	3	
9		481013	WASHER-EXTSER-.25-.27X.51-.03-CZ	2	
10		235735001	SCREW-HCS-.25-20X1.00-GR8-YZ	1	
11		296275118	CLAMP-#8	2	

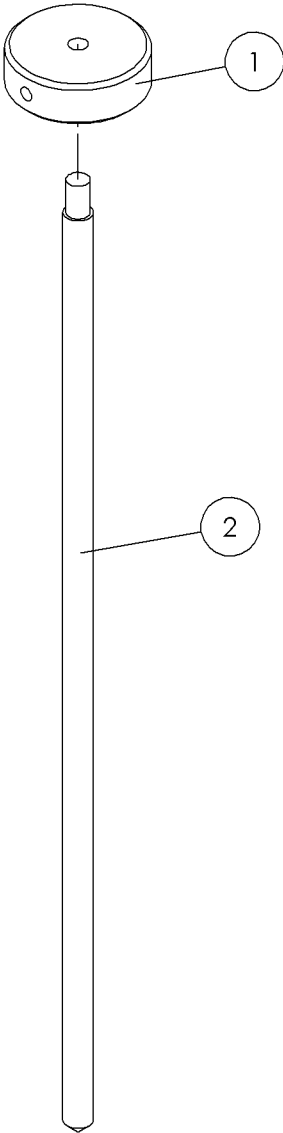
Voltage Stake Components Fig 10-2



Voltage Stake Components Fig 10-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296275119	STAKE-VOLTAGE	1	Breakdown Fig 10-3
2		234164001	HANDLE-VOLTAGE STAKE	1	
3		240056001	SCREW-SHSS-.50X.50-.38-16THD-CZ	2	
4		1865043	GROMMET-.75IDX1.38OD-.19GROOVE	2	
5		296275117	HARNESS-VOLTAGE STAKE	1	
6		235734001	BOLT-1/4-20X3/4 GR8 ZINC PLTD	3	
7		235732001	NUT - HEX - .25 - 20 - GR8 - YZ	1	
8		510337603	WASHER-FLATSTD-.25-.31X.75-.07-YZ	3	
9		481013	WASHER-1/4 EST. STAR	2	
10		235735001	BOLT-1/4-20X1 GR8 HEX ZNC PLTD	1	
11		296275118	CLAMP - #8	2	

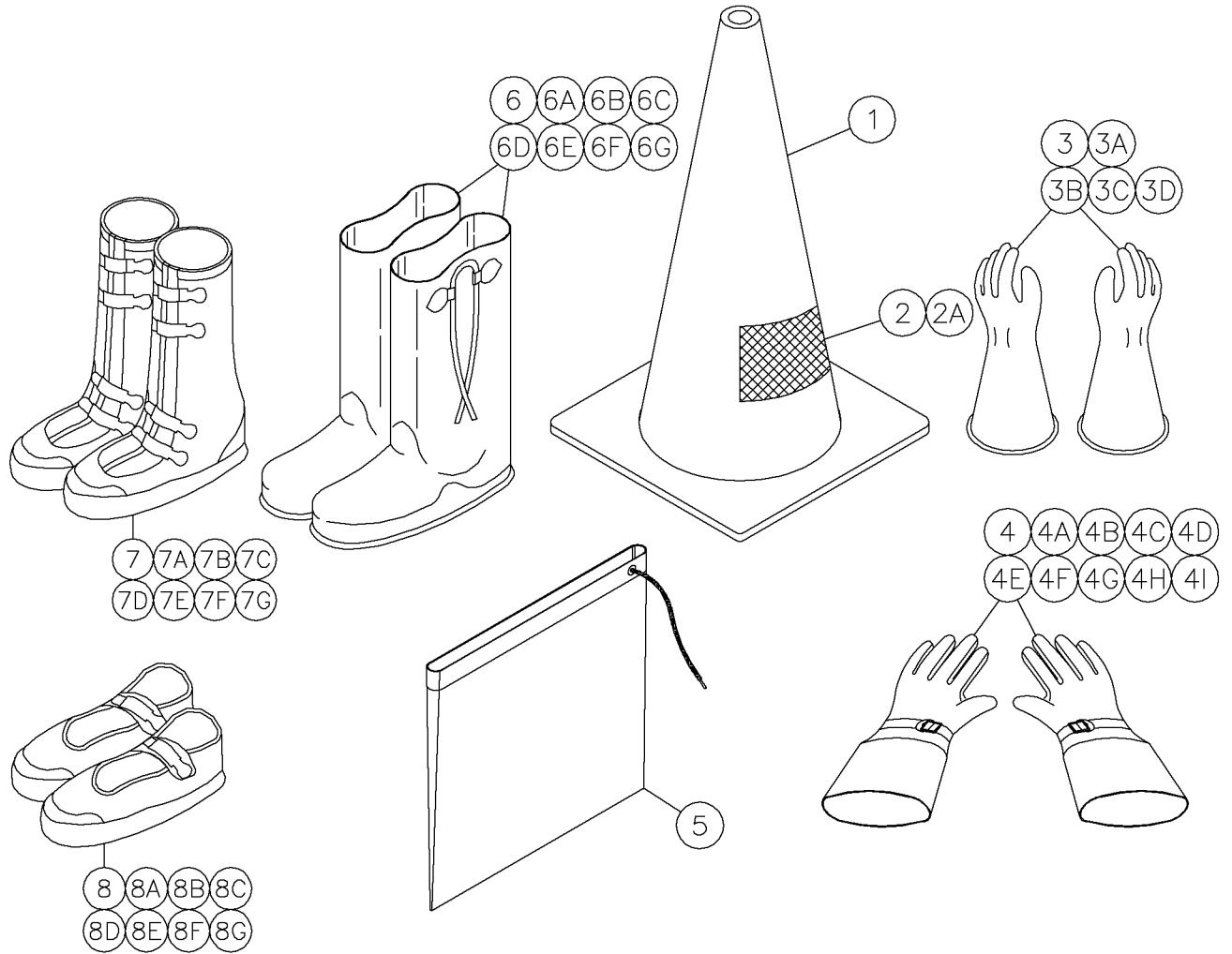
Voltage Stake Components Fig 10-3



Voltage Stake Components Fig 10-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296275107	HEAD - VOLTAGE STAKE	1	
2		904155001	VOLTAGE STAKE	1	

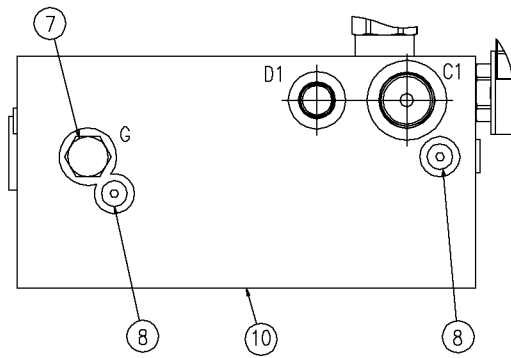
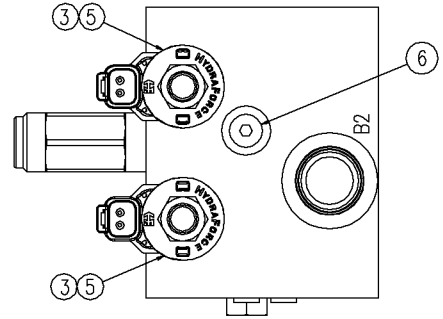
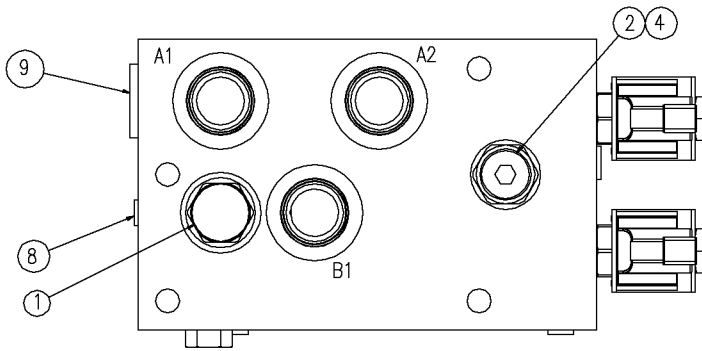
Safety Features - Gloves, Boots, Cones Fig 10-4



Safety Features - Gloves, Boots, Cones Fig 10-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		904541001	CONES-ORANGE PVC	4	
2		70000530	DECAL-DANGER	4	
2A		7000I530	DECAL-WARNING (NAVIGATORS)	4	
3		210782001	GLOVES-SIZE 9 RUBBER INSULATE	1PR	
3A		210782005	GLOVES-SIZE 9 1/2 RUBBER INSUL	1PR	
3B		210782003	GLOVES-SIZE 10 RUBBER INSULATE	1PR	
3C		210782007	GLOVE-SIZE 11 RUBBER INSULATED	1PR	
3D		210782009	GLOVE-SIZE 12 RUBBER INSULATED	1PR	
4		210783001	GLOVES-SIZE 9 LEATHER PROTECT	1PR	
4A		210783005	GLOVES SIZE 9 1/2 LEATHER PROT	1PR	
4B		210783003	GLOVES-SIZE 10 LEATHER PROTECT	1PR	
4C		210783007	GLOVE-SIZE 11 LEATHER PROTECT	1PR	
4D		210783009	GLOVE-SIZE 12 LEATHER PROTECT	1PR	
4E		210781001	GLOVE KIT-SIZE 9	1	INC 1PR OF RUBBER GLOVES & 1PR OF LEATHER GLOVES & 1 GLOVE BAG, # 5
4F		224979001	GLOVE KIT-SIZE 9 1/2	1	INC 1PR OF RUBBER GLOVES & 1PR OF LEATHER GLOVES & 1 GLOVE BAG, # 5
4G		210785001	GLOVE KIT-SIZE 10	1	INC 1PR OF RUBBER GLOVES & 1PR OF LEATHER GLOVES & 1 GLOVE BAG, # 5
4H		224990001	GLOVE KIT-SIZE 11	1	INC 1PR OF RUBBER GLOVES & 1PR OF LEATHER GLOVES & 1 GLOVE BAG, # 5
4I		224991001	GLOVE KIT-SIZE 12		INC 1PR OF RUBBER GLOVES & 1PR OF LEATHER GLOVES & 1 GLOVE BAG, # 5
5		210784001	BAG-GLOVE	1	
6		210780009	BOOTS-SIZE 9 OVER-THE-SHOE	1PR	
6A		210780001	BOOTS-SIZE 10 OVER-THE-SHOE	1PR	
6B		210780003	BOOTS-SIZE 11 OVER-THE-SHOE	1PR	
6C		210780005	BOOTS-SIZE 12 OVER-THE-SHOE	1PR	
6D		210780007	BOOTS-SIZE 13 OVER-THE-SHOE	1PR	
6E		210780011	BOOTS-SIZE 14 OVER-THE-SHOE	1PR	
6F		210780013	BOOTS-SIZE 15 OVER-THE-SHOE	1PR	
6G		210780015	BOOTS-SIZE 16 OVER-THE SHO	1PR	
7		279118001	BOOT - 4 BUCKLE SIZE 9	1PR	
7A		279118002	BOOT - 4 BUCKLE SIZE 10	1PR	
7B		279118003	BOOT 4 BUCKLE SIZE 11	1PR	
7C		279118004	BOOT - 4 BUCKLE SIZE 12	1PR	
7D		279118005	BOOT - 4 BUCKLE SIZE 13	1PR	
7E		279118006	BOOT - 4 BUCKLE SIZE 14	1PR	
7F		279118007	BOOT - 4 BUCKLE SIZE 15	1PR	
7G		279118008	BOOT - 4 BUCKLE SIZE 16	1PR	
8		279119001	BOOT - ANKLE RUBBER SIZE9	1PR	
8A		279119002	BOOT - ANKLE RUBBER SIZE 10	1PR	
8B		279119003	BOOT - ANKLE RUBBER SIZE 11	1PR	
8C		279119004	BOOT - ANKLE RUBBER SIZE 12	1PR	
8D		279119005	BOOT - ANKLE RUBBER SIZE 13	1PR	
8E		279119006	BOOT - ANKLE RUBBER SIZE 14	1PR	
8F		279119007	BOOT - ANKLE RUBBER SIZE 15	1PR	
8G		279119008	BOOT - ANKLE RUBBER SIZE 16	1PR	

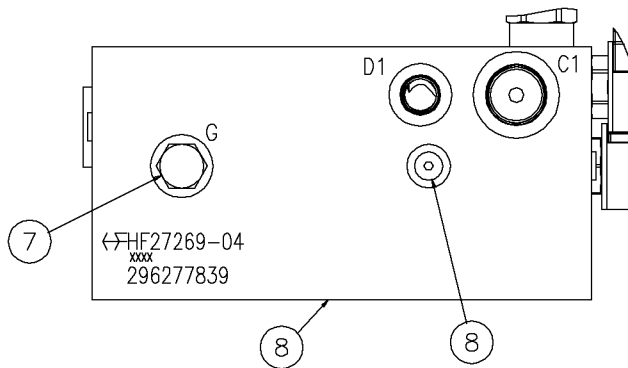
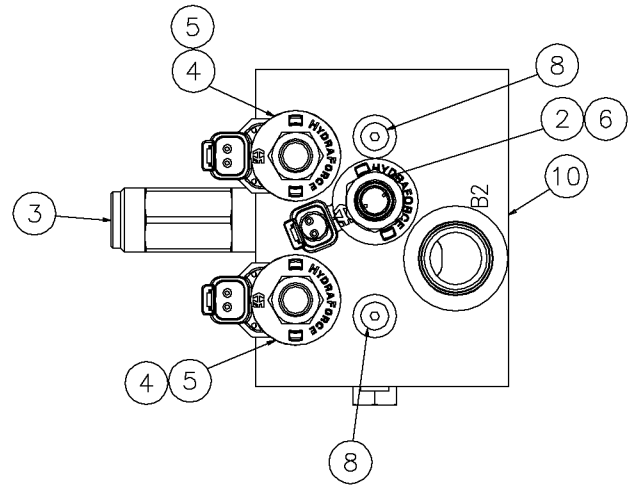
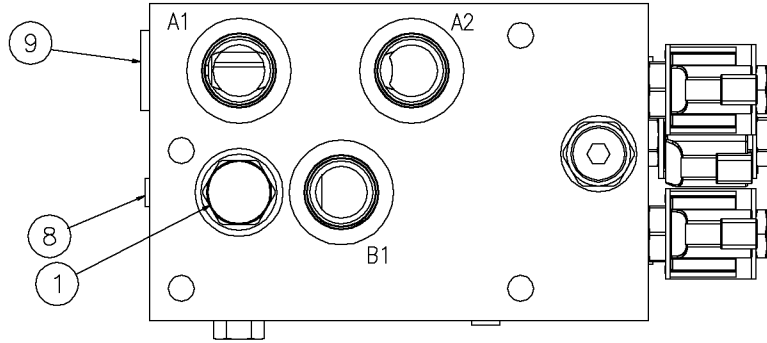
Valve-3 Speed Shuttle Fig 11-1r01



Valve-3 Speed Shuttle Fig 11-1r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		251117003	SHUTTLE - HOT OIL (SPRINGLESS)	1	
		296285082	SEAL KIT	1	
2		296251232	VALVE - RELIEF	1	
		251117013	SEAL KIT	1	
3		161158001	SPOOL-3 WAY	2	
		161159001	SEAL KIT	2	
4		296285176	ORIFICE	1	
5		296271115	COIL	2	
6		240324011	PLUG-SAE	1	
7		296285081	PLUG	1	
8		240324015	PLUG-SAE	5	
9		251117019	PORT PLUG		
10		NSS	BLOCK	1	
		296269674	VALVE - 3 SPEED FLUSH 3 GPM		Inc. All Items In Figure
			NSS-NOT SOLD SEPARATELY		

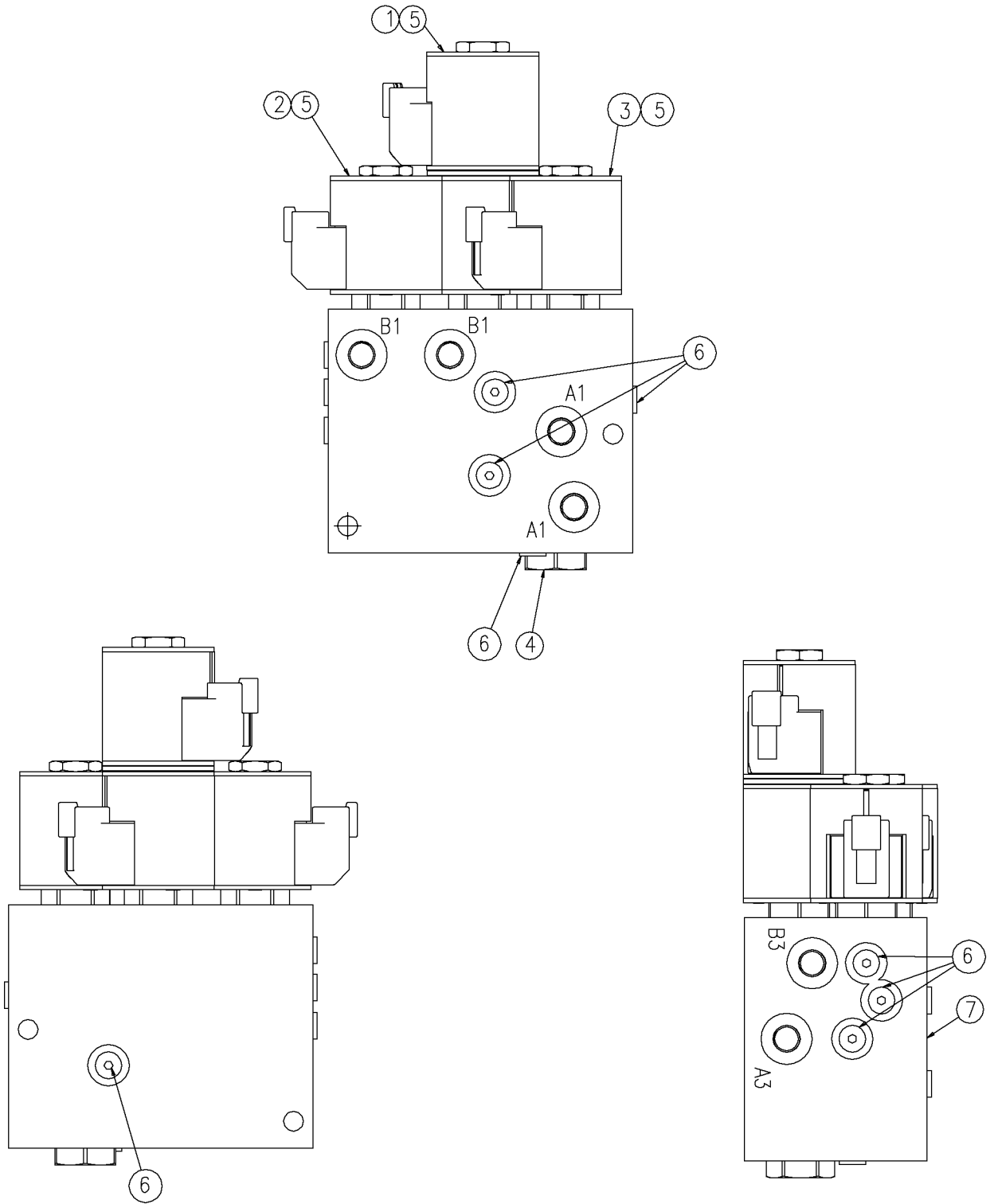
Valve-3 Speed Shuttle Fig 11-1



Valve-3 Speed Shuttle Fig 11-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		251117003	SHUTTLE - HOT OIL (SPRINGLESS)	1	
		296285082	SEAL KIT	1	
2		296251233	VALVE - PRESSURE REDUCING	1	
		161159001	SEAL KIT	1	
3		296251232	VALVE - RELIEF	1	
		251117013	SEAL KIT	1	
4		161158001	SPOOL-3 WAY	1	
		161159001	SEAL KIT	1	
5		296271115	COIL	1	
6		296285080	COIL	2	
7		296285081	PLUG	1	
8		240324015	PLUG-SAE	6	
9		251117019	PORT PLUG	1	
10		NSS	BLOCK		
		296277839	VALVE - 3 SPEED SHUTTLE		Inc. All Items In Figure
			NSS-NOT SOLD SEPARATELY		

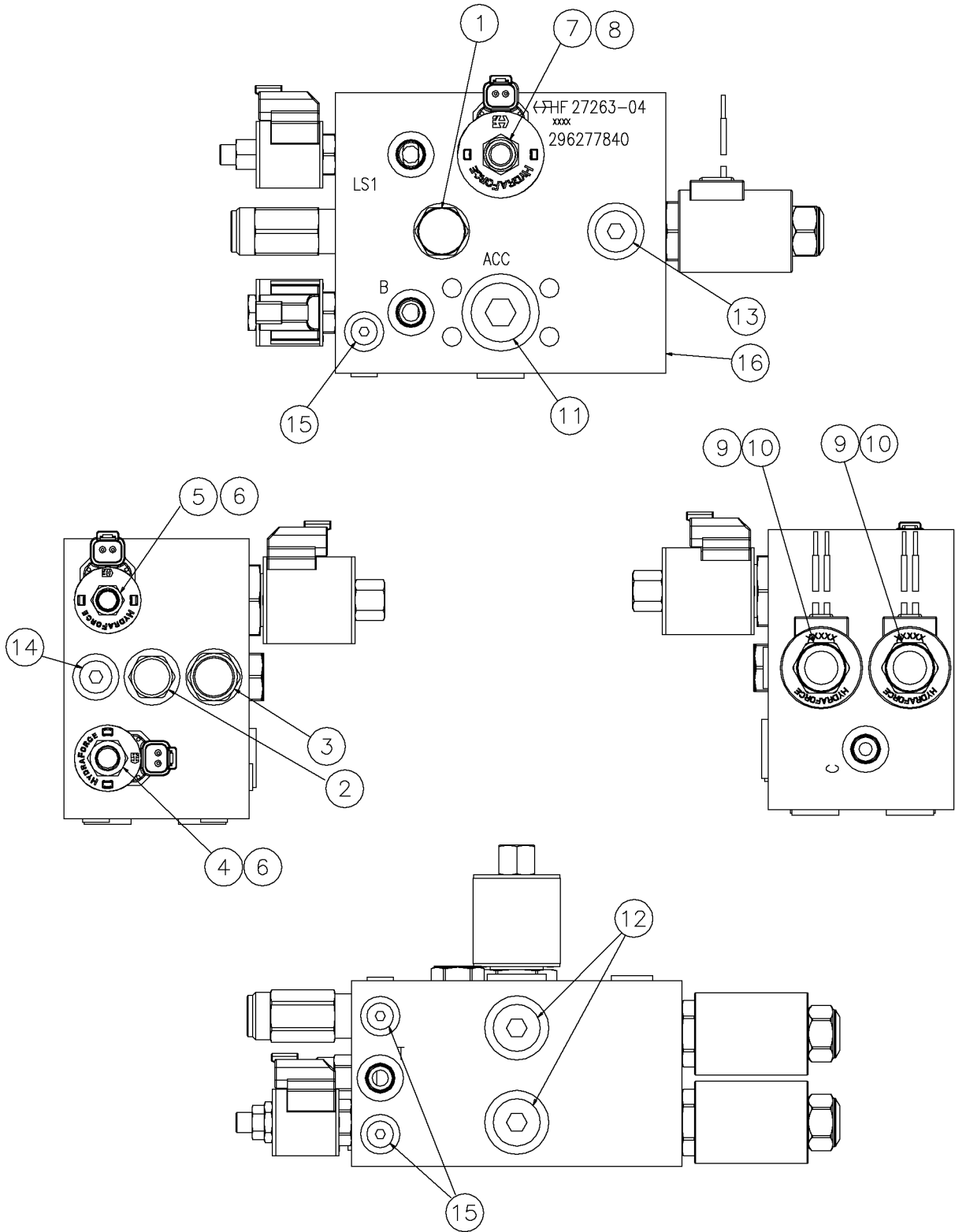
Valve-Rod Loader Fig 11-2



Valve-Rod Loader Fig 11-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296285066	CARTRIDGE - SOLENOID VALVE	1	
		244725007	NUT - COIL	1	
		296265599	SEAL KIT	1	
2		296265596	CARTRIDGE - SOLENOID VALVE	1	
		244725007	NUT - COIL	1	
		296265599	SEAL KIT	1	
3		296285067	CARTRIDGE - SOLENOID VALVE	1	
		244725007	NUT - COIL	1	
		296251078	SEAL KIT	1	
4		296272929	FLOW DIVIDER	1	
		296251088	SEAL KIT	1	
5		296271077	COILS	4	
6		240324015	PLUG-SAE	8	
7		NSS	BLOCK	1	
		296269555	MANIFOLD - ROD LOADER		Inc. All Items In Figure
			NSS-NOT SOLD SEPARATELY		

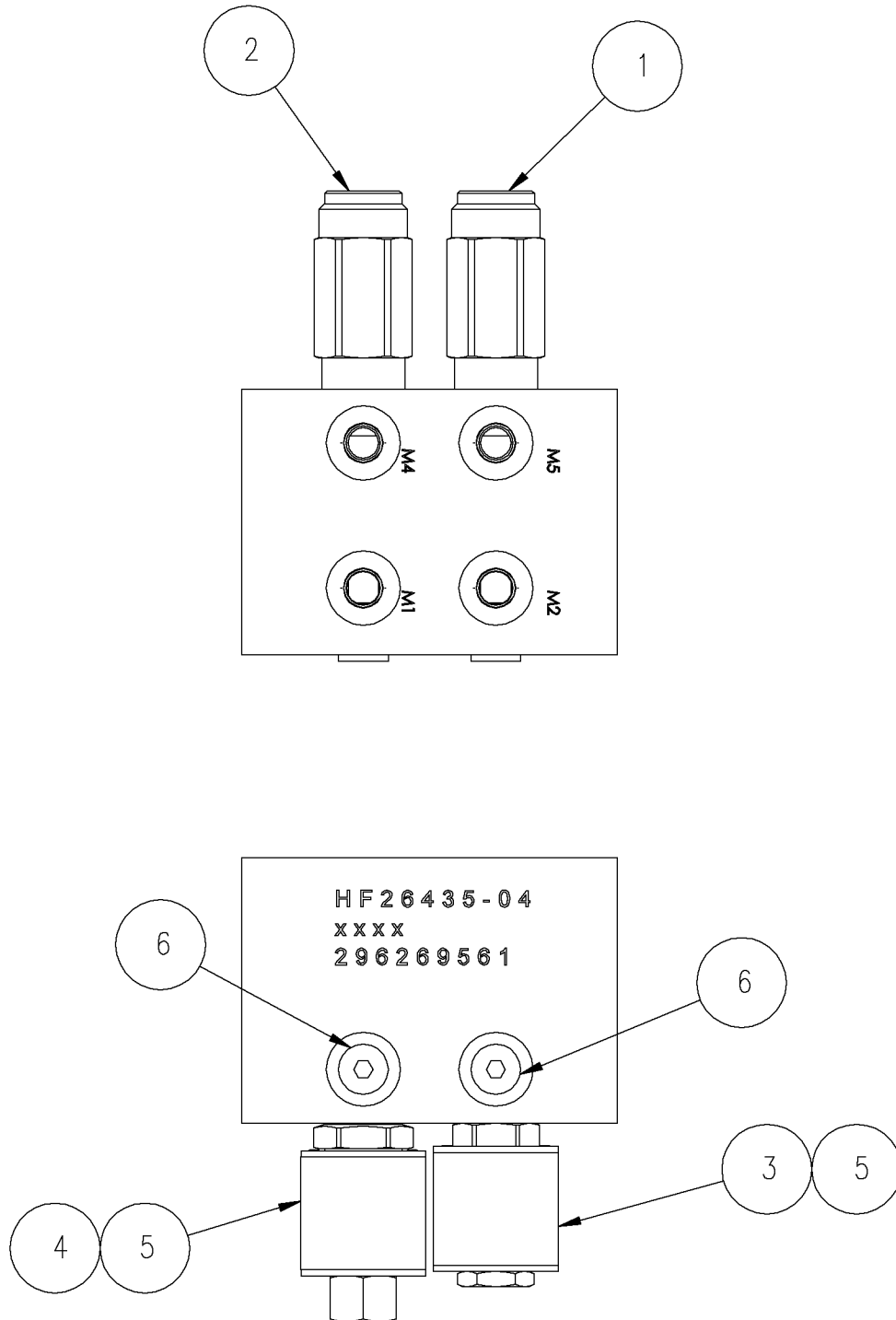
Valve-Proportional/Dump Fig 11-3



Valve-Proportional/Dump Fig 11-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296251271	VALVE-HIGH PRESSURE CHECK	1	
		251117005	SEAL KIT	1	
2		296251244	PRESSURE REGULATOR	1	
		296251054	SEAL KIT	1	
3		296251245	RELIEF - HIGH PRESSURE	1	
		296285062	SEAL KIT	1	
4		250131005	CARTRIDGE - 2 WAY NC HP	1	
		296265595	SEAL KIT	1	
5		296285063	SOLENOID VALVE	1	
		296251054	SEAL KIT	1	
6		296271115	COIL	2	
7		296285064	SOLENOID VALVE	1	
		296285065	SEAL KIT	1	
8		296271077	COILS	1	
9		296251247	PROPORTIONAL FLOW CONTROL	2	
		296251250	SEAL KIT	1	
10		282520003	SOLENOID - #10 W/LEADS DEUTSCH SOCKETS	2	
11		251117019	PORT PLUG	1	
12		251107011	PORT PLUG - SAE 10	2	
13		236494005	PLUG-SAE	1	
14		500659021	SAE PLUG	1	
15		240324011	PLUG-SAE	3	
16		NSS	BLOCK	1	
		296277840	VALVE - PROPORTIONAL/DUMP		Inc. All Items In Figure
			NSS-NOT SOLD SEPARATELY		

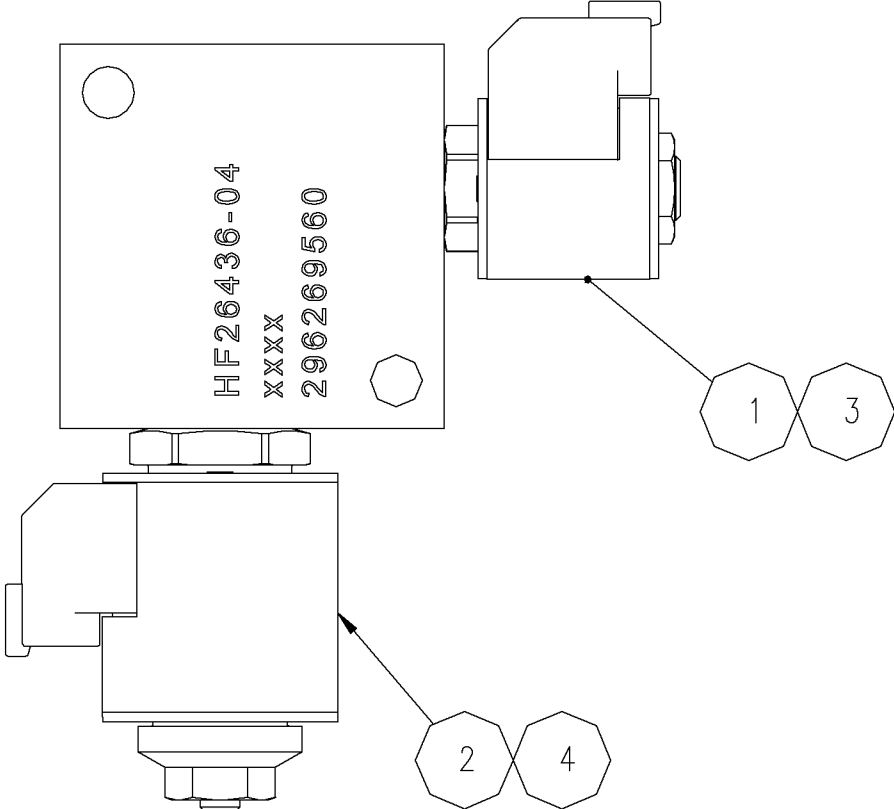
Valve-Torque Limiter Fig 11-4



Valve-Torque Limiter Fig 11-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		251120007	RELIEF - HIGH PRESSURE	1	
		296271087	SEAL KIT	1	
2		296272925	RELIEF VALVE	1	
		296271087	SEAL KIT	1	
3		251120003	POPPET - 2 WAY N/C	1	
		296265595	SEAL KIT	1	
4		296272926	SOLENOID VALVE	1	
		296265595	SEAL KIT	1	
5		296271115	COIL	2	
6		240324011	PLUG-SAE	2	
		296269561	VALVE - TORQUE LIMITER		Inc. All Items In Figure

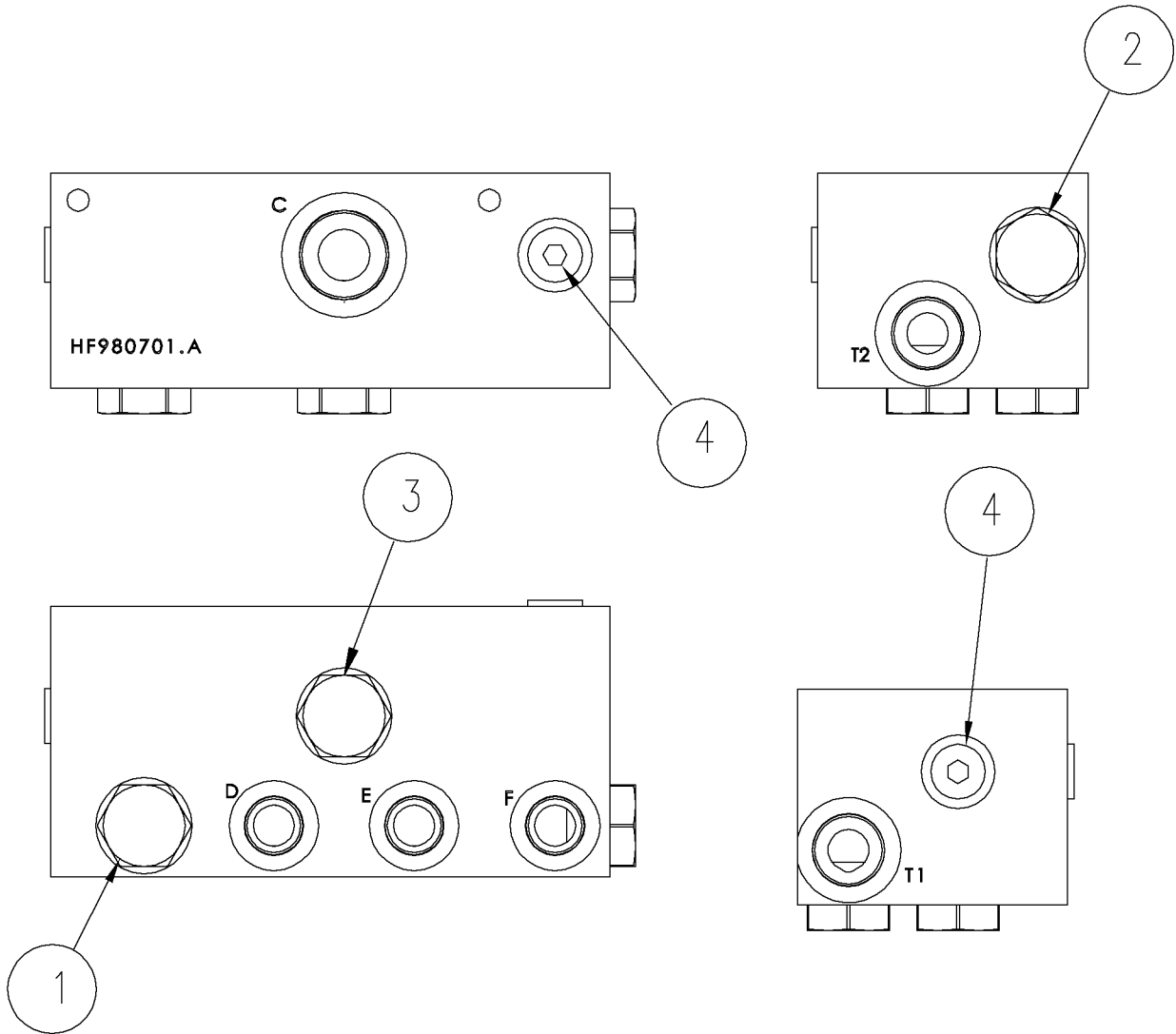
Valve-Thrust Limiter Fig 11-5



Valve-Thrust Limiter Fig 11-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		250131005	CARTRIDGE - 2 WAY NC HP	1	
		296265595	SEAL KIT	1	
2		296272924	PROPORTIONAL PRESSURE CONTROL	1	
		296251056	SEAL KIT	1	
3		296271115	COIL	1	
4		296271077	COILS	1	
		296269560	VALVE - THRUST LIMITER		Inc. All Items In Figure

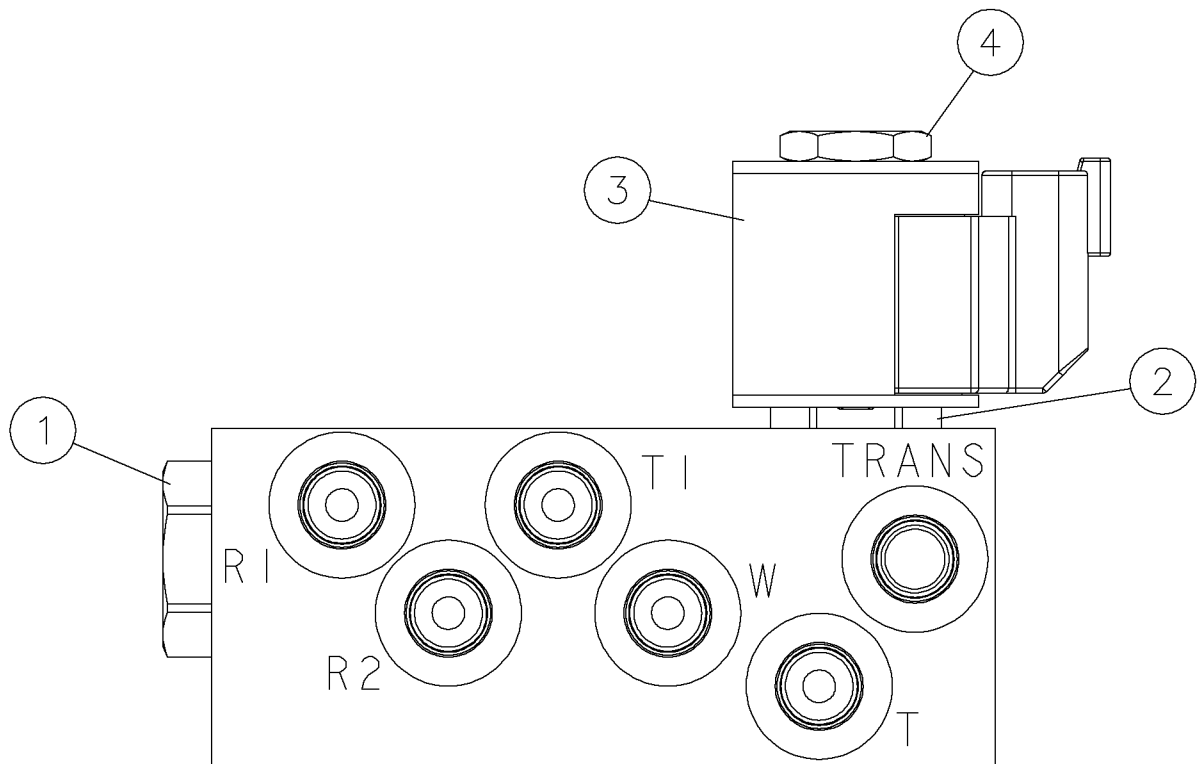
Valve-Return Manifold Fig 11-6



Valve-Return Manifold Fig 11-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		251107007	VALVE - CHECK	1	
2		251107009	VALVE - CHECK	1	
3		251107003	VALVE - CHECK	1	
4		251107011	PORT PLUG - SAE 10	1	
		296273651	MANIFOLD - RETURN		Inc. All Items In Figure

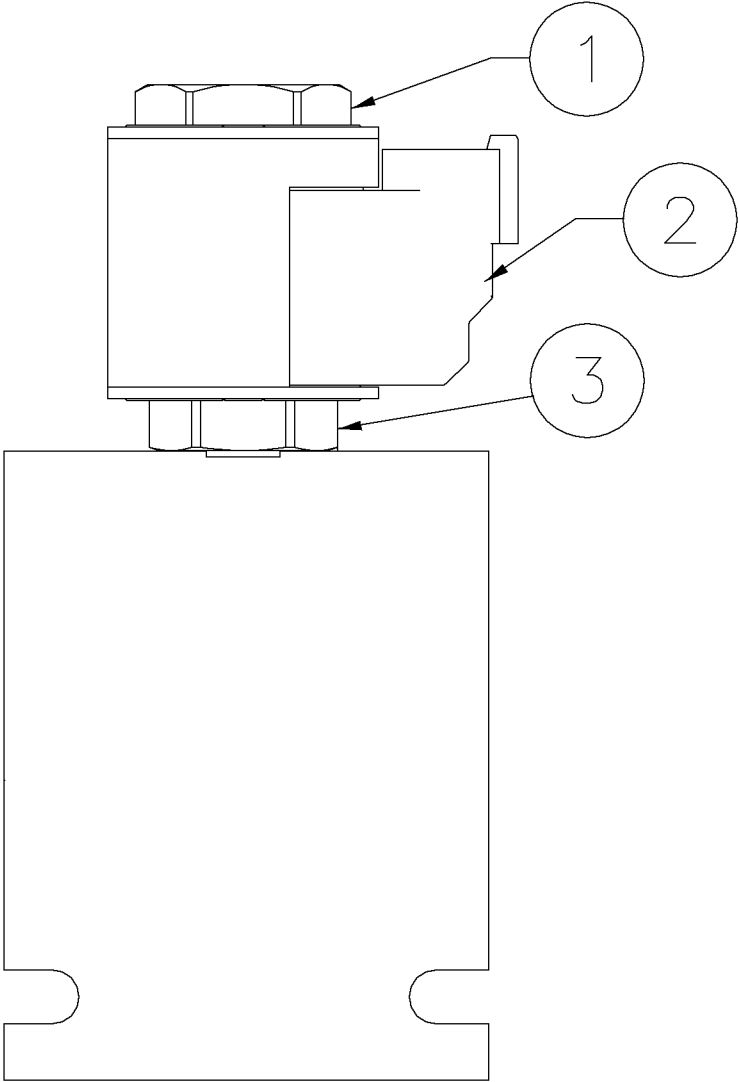
Valve-Check Bank Fig 11-7



Valve-Check Bank Fig 11-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296276754	LOAD SENSE VALVE	1	
		296276755	SEAL KIT	1	
2		251120003	POPPET - 2 WAY N/C	1	
		296271087	SEAL KIT	1	
3		296271115	COIL	1	
4		224886007	NUT	1	
		296278540	VALVE - CHECK BANK		Inc. All Items In Figure

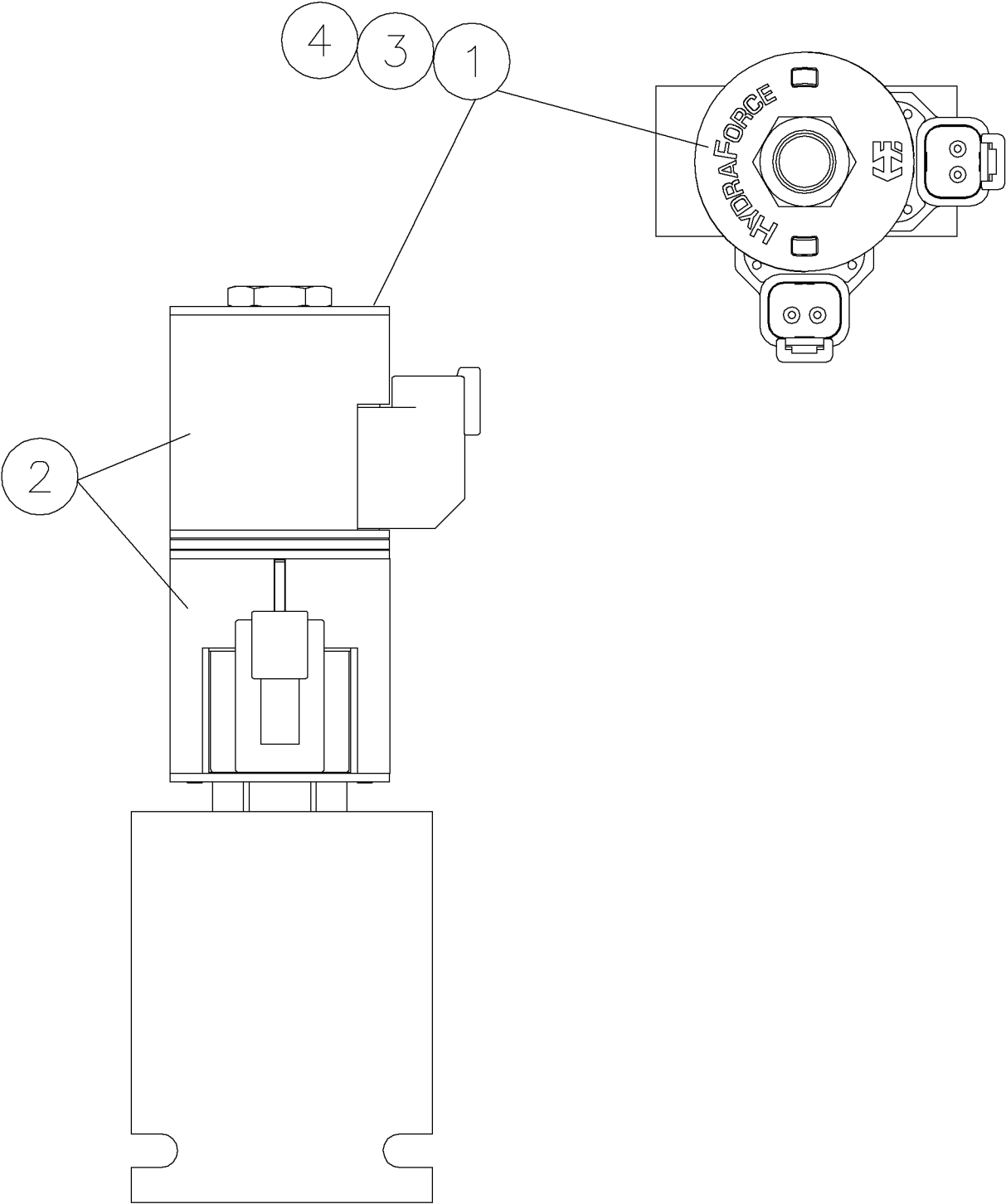
Valve-Greaser Fig 11-8



Valve-Greaser Fig 11-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296265526	NUT-COIL	1	
2		296265527	COIL	1	
3		244725009	CARTRIDGE - SOLENOID	1	
		294901001	VALVE - GREASER		Inc. All Items In Figure

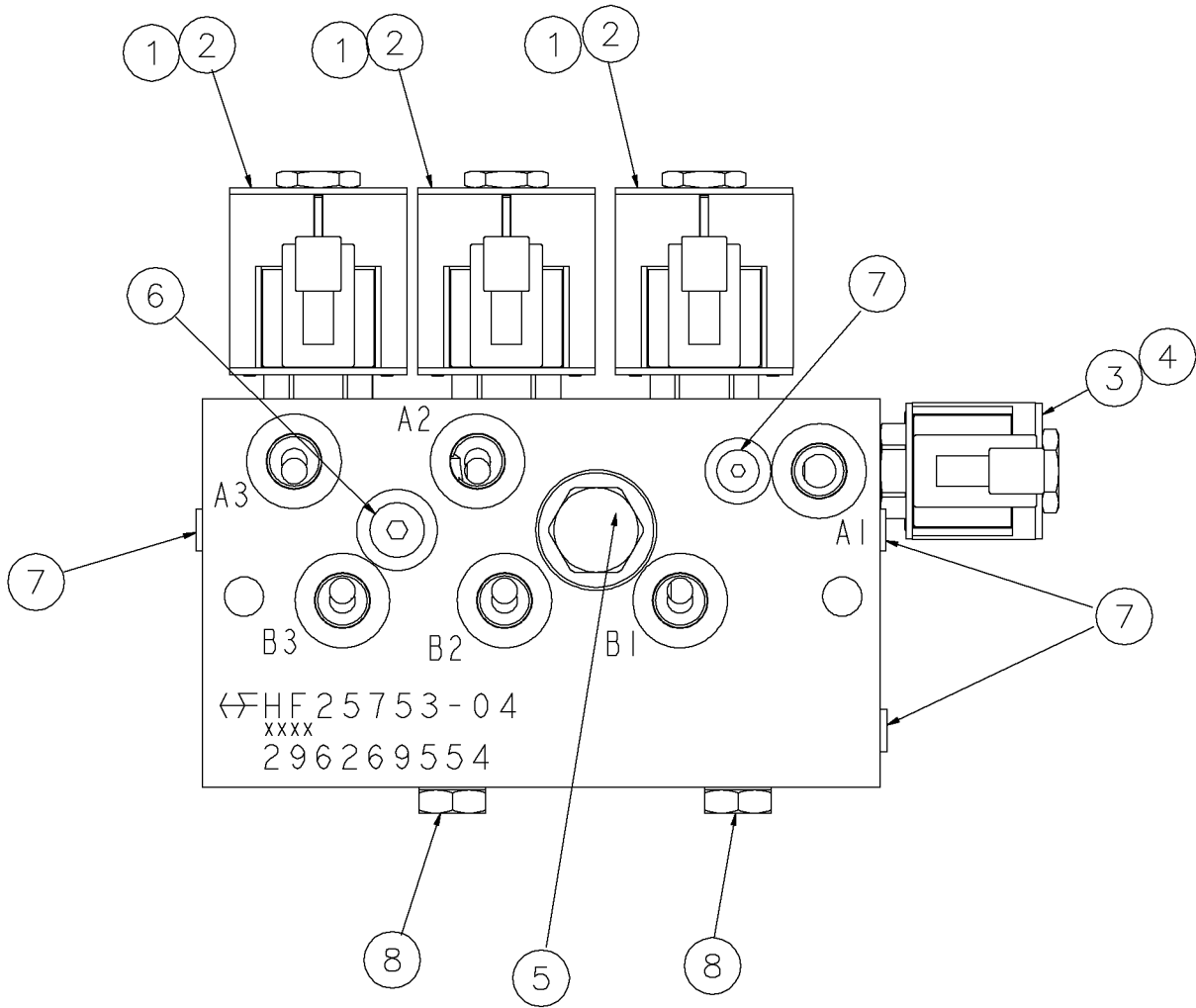
Valve-Outrigger Fig 11-9



Valve-Outrigger Fig 11-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		251109003	CARTRIDGE - SOLENOID	1	
2		296271077	COILS	2	
3		224886007	NUT	1	
4		296265599	SEAL KIT	1	
		296269565	VALVE - 3 POSITION, 4 WAY DUAL SOL.		Inc. All Items In Figure

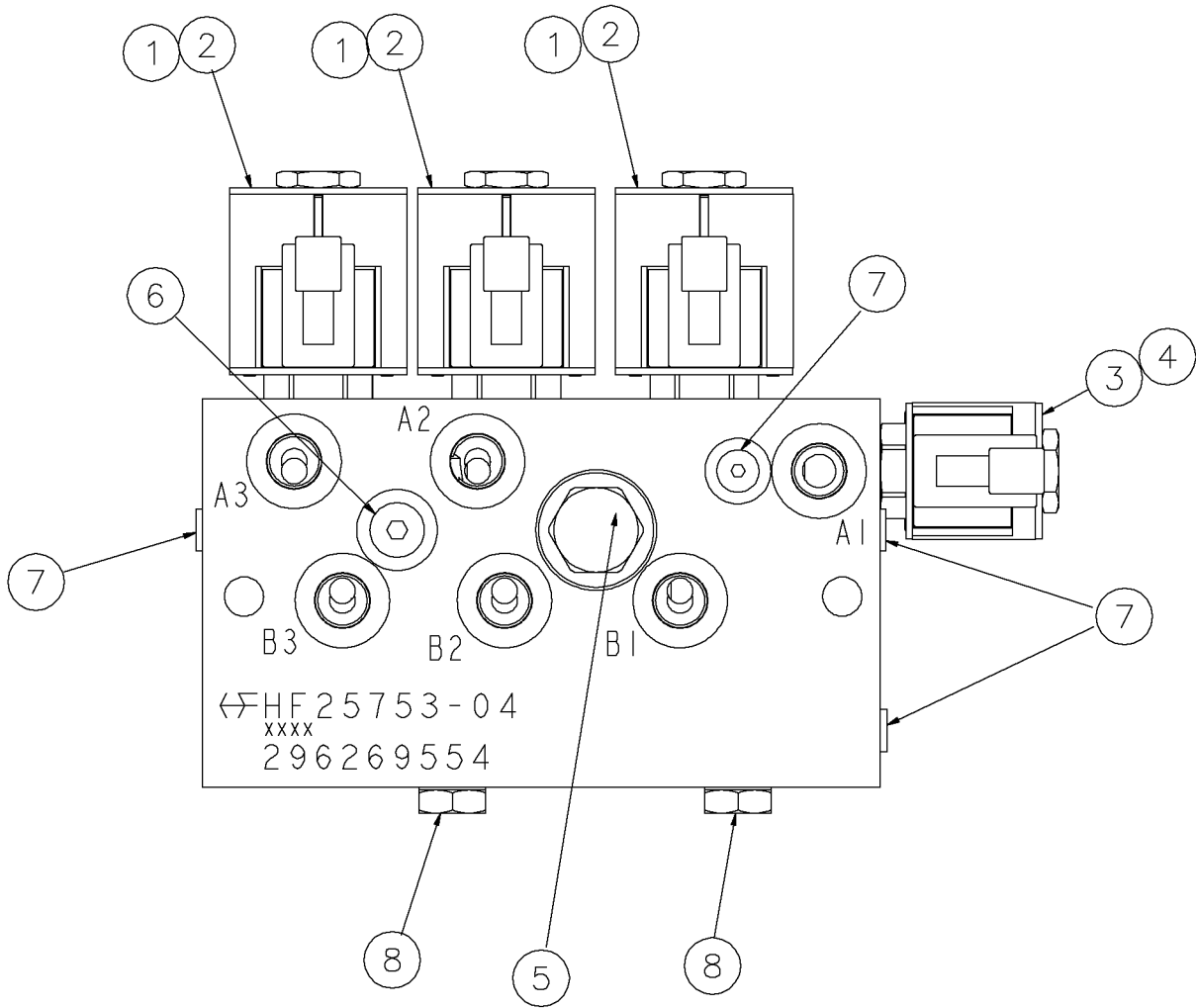
Valve-Vise Manifold Fig 11-10r01



Valve-Vise Manifold Fig 11-10r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296265596	CARTRIDGE - SOLENOID VALVE	3	
		296265599	SEAL KIT	3	
2		296271077	COILS	3	
		244725007	NUT - COIL	3	
3		296265600	CARTRIDGE - SOLENOID VALVE	1	
		296265595	SEAL KIT	1	
4		296271115	COIL	1	
		244725007	NUT - COIL	1	
5		296265594	VALVE - CHECK	1	
		296265595	SEAL KIT	1	
6		240324011	PLUG-SAE	1	
7		240324015	PLUG-SAE	4	
8		228128013	SENSE CHECK	2	
		296269554	WISE - MANIFOLD		Inc. All Items In figure

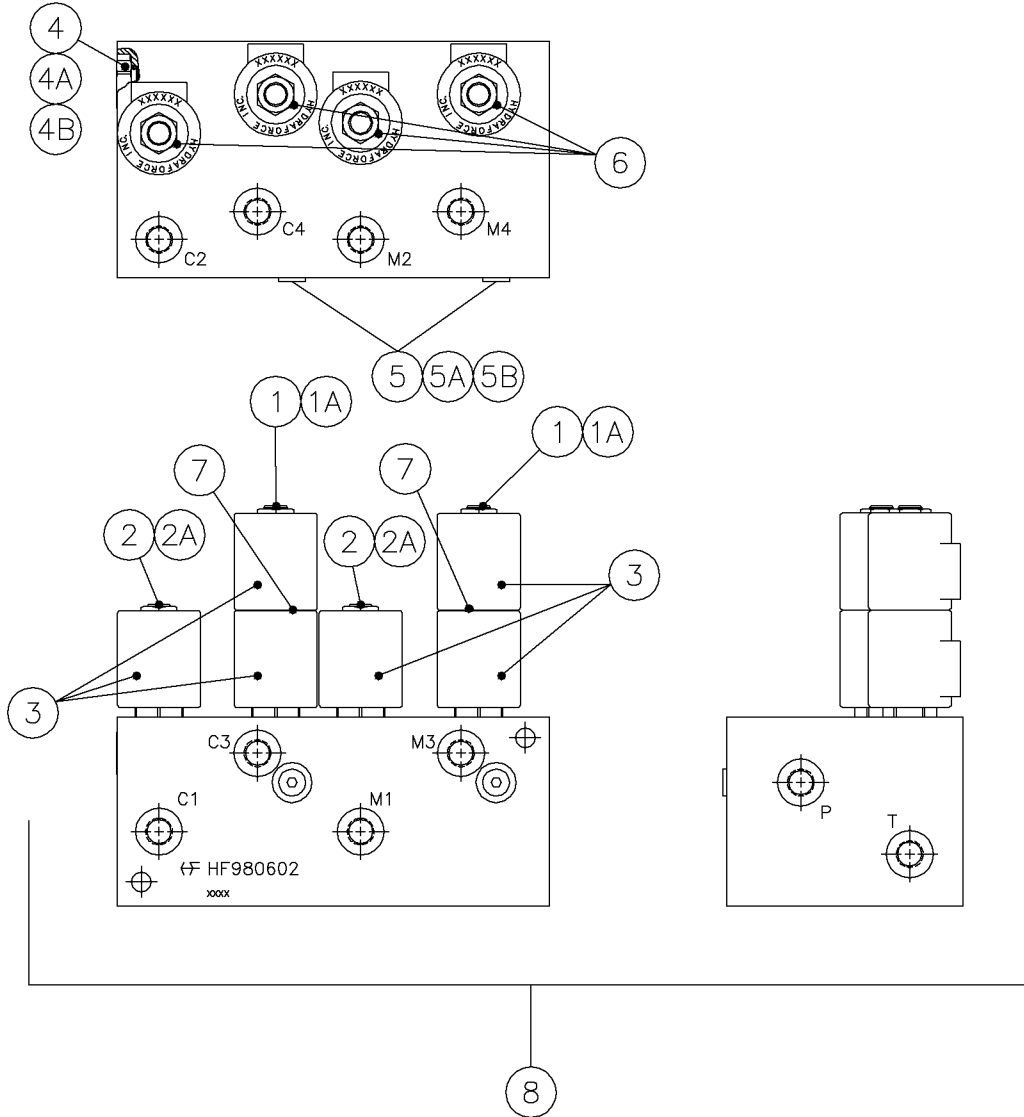
Valve-Vise Manifold Fig 11-10



Valve-Vise Manifold Fig 11-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296265596	CARTRIDGE - SOLENOID VALVE	3	
		296265599	SEAL KIT	3	
2		296271077	COILS	3	
		244725007	NUT - COIL	3	
3		296265600	CARTRIDGE - SOLENOID VALVE	1	
		296265595	SEAL KIT	1	
4		296271115	COIL	1	
		244725007	NUT - COIL	1	
5		296265594	VALVE - CHECK	1	
		296265595	SEAL KIT	1	
6		240324011	PLUG-SAE	1	
7		240324015	PLUG-SAE	4	
8		228128013	SENSE CHECK	1	
		296269554	WISE - MANIFOLD		Inc. All Items In figure

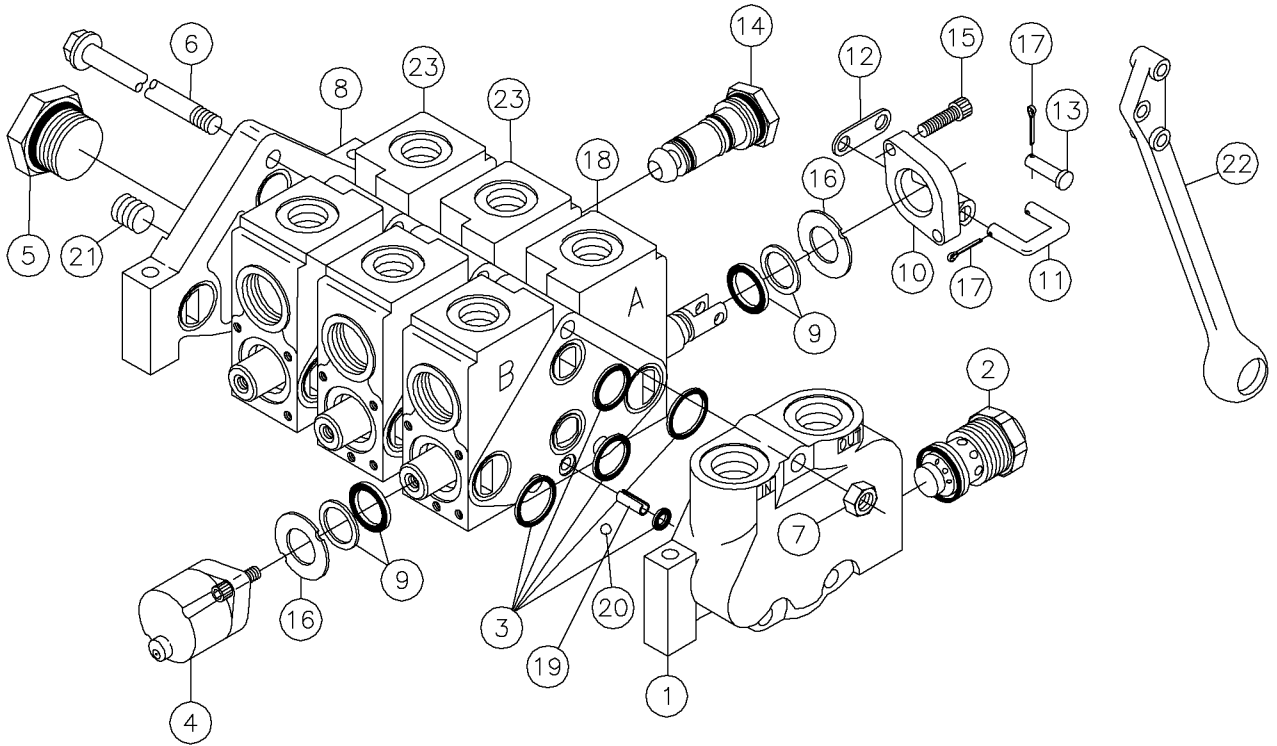
Valve-Stakedown Fig 11-11



Valve-Stakedown Fig 11-11

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		251112003	SOLENOID VALVE	2	Inc. Repair Kit & Nut
1A		206271007	REPAIR KIT	2	
2		251072003	SOLENOID VALVE	2	Inc. Repair Kit & Nut
2A		235500005	SEAL KIT	2	
3		251112005	COIL - 10 DL 12V/SPL	6	
4		205737003	CARTRIDGE - CHECK VALVE	1	
4A		228128009	SEAL KIT	1	
4B		246415003	PILOT PISTON	1	
5		251112007	ORFICE DISC	2	
5A		240324011	PLUG-SAE	2	
5B		240324013	SEAL KIT	2	
6		224886007	NUT	4	
7		228129007	SPACER	2	
8		296269562	VALVE - STAKE DOWN	1	Inc. All Items In Figure

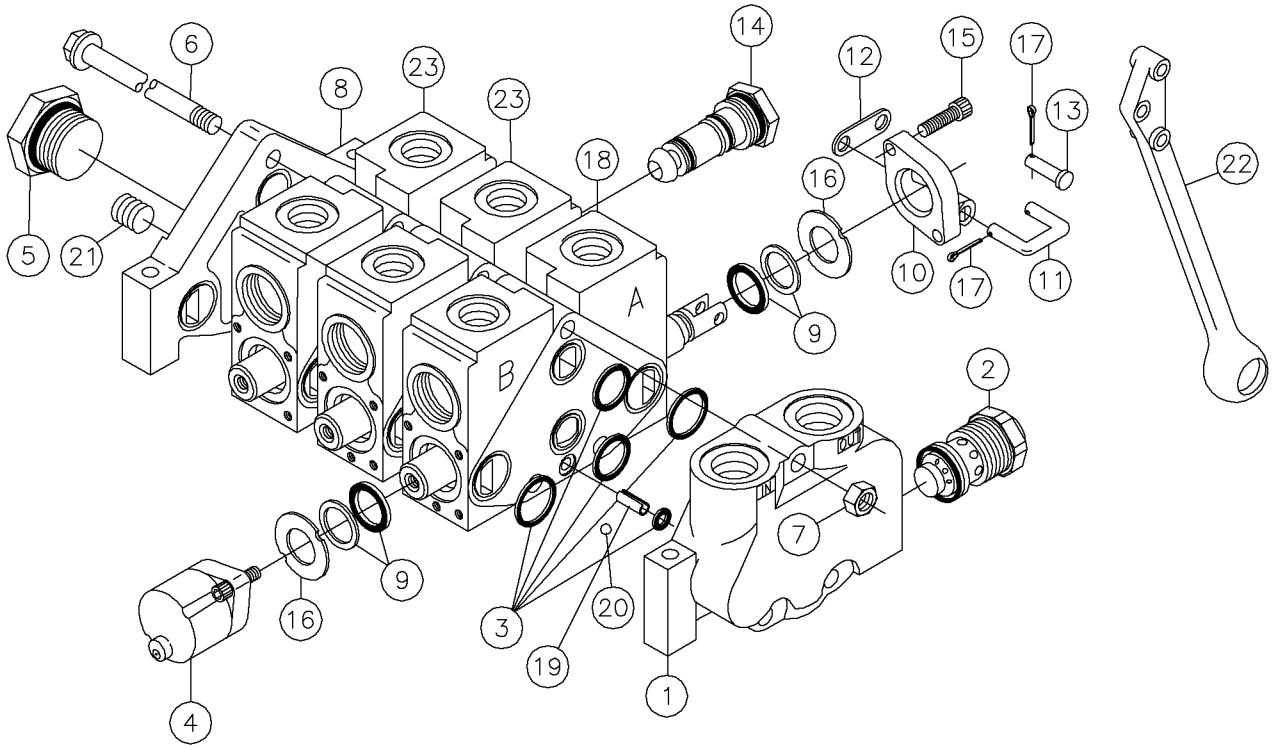
Valve-Transport Fig 11-12r01



Valve-Transport Fig 11-12r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Parts List.
1		228113003	LEFT COVER PLATE COMPLETE	1	Inc. Ref. 2
2		228113005	WH MAIN RELIEF (3500 PSI)	1	
3		87390001	REPAIR KIT-LOAD SENSING SECT.	4	
4		6149005	POSITIONER-STD. GRESEN K-6125	3	Breakdown Fig. 11-13
5		3152011	PLUG SAE 12 GRESEN 1726-001	1	Inc. O-Ring
		3152013	SEAL-O-RING GRESEN 2708-001	1	
6		16358005	STUD KIT-3 SPOOL K-6106	1	Inc. Ref. 7
7		446001	NUT-3/8 NF HEX	3	
8		102976001	COVER ASSY-RIGHT LOAD SEN.	1	Inc. One Of Ref. 3, 5, & 21
9		3147077	REPAIR KIT GRESEN K-6035	3	
10		3147029	BRACKET GRESEN 1801-001	3	
11		4333003	LINK-	3	
12		4333005	PLATE-LINK	3	
13		2110003	PIN - CLEVIS 1/4 X 7/8 - 47/64 UL ZINC	3	
14		3147035	PLUG-LOADCHECK STEEL K-6030 REF T13406	6	Breakdown Fig. 11-14
15		79704001	SCREW-1/4-20X7/8 SOC HD SELFLK	6	
16		3147081	RETAIN-PLT WASH GRN 6752-001	6	
17		510035	PIN-3/32 X 1/2 COTTER	9	
18		224397003	BODY ASSEMBLY-CENTER SECTION	1	Inc. One Of Ref. 3, 4, 9-11, 13, 19, 20, 22 And Two Of Ref. 14-16, And Three Of Ref. 17.
19		87397001	PIN-SPRING	1	
20		87398001	BALL	1	
21		3213017	PLUG-RELIEF 3/8" GRESEN 73-001	1	
22		280625001	HANDLE-W/ ZINC PLATE & BLACK PLASTIC COAT	3	
23		236457003	BODY ASSY-CNTR SEC W/FREE FLOW	2	Inc. One Of Ref. 3, 4, 9-11, 13, 19, 20, 22 And Two Of Ref. 14-16, And Three Of Ref. 17.
		236457001	VALVE-3 SPOOL CONTROL		Inc. All Items In Figure

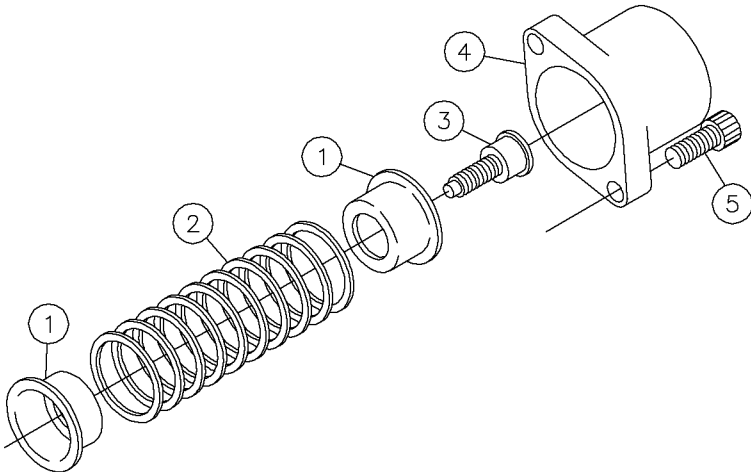
Valve-Transport Fig 11-12



Valve-Transport Fig 11-12

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		228113003	LEFT COVER PLATE COMPLETE	1	Inc. Ref. 2
2		228113005	WH MAIN RELIEF (3500 PSI)	1	
3		8739005		4	
4		6149005	POSITIONER-STD. GRESEN K-6125	3	Breakdown Fig. 11-13
5		3152011	PLUG SAE 12 GRESEN 1726-001	1	Inc. O-Ring
		3152013	SEAL-O-RING GRESEN 2708-001	1	
6		16358005	STUD KIT-3 SPOOL K-6106	1	Inc. Ref. 7
7		446001	NUT-3/8 NF HEX	3	
8		102976001	COVER ASSY-RIGHT LOAD SEN.	1	Inc. One Of Ref. 3, 5, & 21
9		3147077	REPAIR KIT GRESEN K-6035	3	
10		3147029	BRACKET GRESEN 1801-001	3	
11		4333003	LINK-	3	
12		4333005	PLATE-LINK	3	
13		2110003	PIN - CLEVIS 1/4 X 7/8 - 47/64 UL ZINC	3	
14		3147035	PLUG-LOADCHECK STEEL K-6030 REF T13406	6	Breakdown Fig. 11-14
15		79704001	SCREW-1/4-20X7/8 SOC HD SELFLK	6	
16		3147081	RETAIN-PLT WASH GRN 6752-001	6	
17		510035	PIN-3/32 X 1/2 COTTER	9	
18		224397003	BODY ASSEMBLY-CENTER SECTION	1	Inc. One Of Ref. 3, 4, 9-11, 13, 19, 20, 22 And Two Of Ref. 14-16, And Three Of Ref. 17.
19		87397001	PIN-SPRING	1	
20		87398001	BALL	1	
21		3213017	PLUG-RELIEF 3/8" GRESEN 73-001	1	
22		280625001	HANDLE-W/ ZINC PLATE & BLACK PLASTIC COAT	3	
23		236457003	BODY ASSY-CNTR SEC W/FREE FLOW	2	Inc. One Of Ref. 3, 4, 9-11, 13, 19, 20, 22 And Two Of Ref. 14-16, And Three Of Ref. 17.
		236457001	VALVE-3 SPOOL CONTROL		Inc. All Items In Figure

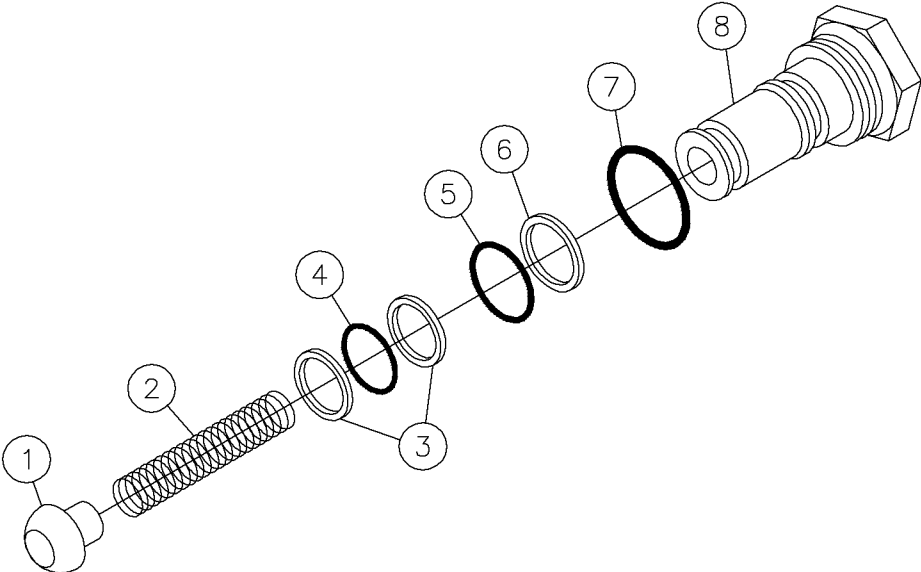
Std. Spool Pos. Fig 11-13



Std. Spool Pos. Fig 11-13

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		3149005	COLLAR-SPRING GRESEN 1809-001	2	
2		6149057	SPRING-RETURN 7433-001	1	
3		3149013	COLLAR-SPOOL	1	
4		6149043	BONNET	1	
5		79704001	SCREW-1/4-20X7/8 SOC HD SELFLK	2	
		6149005	POSITIONER-STD. GRESEN K-6125		Inc. Ref. 1-5

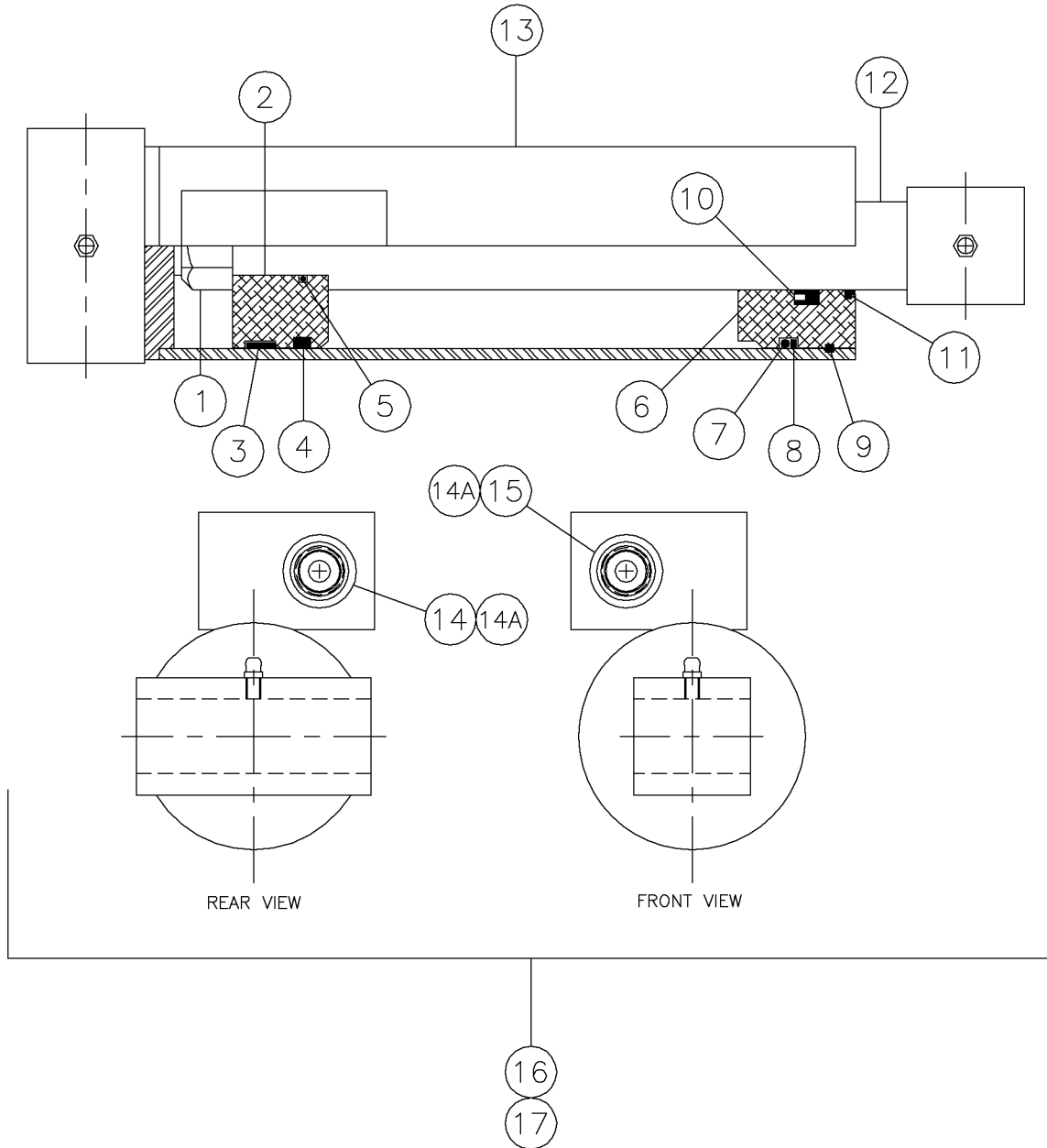
Load Check Plug Fig 11-14



Load Check Plug Fig 11-14

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		3128009	POPPET-CHECK GRESEN 2781-001	1	
2		3147041	SPRING-CHECK GRESEN 1868-001	1	
3		NSS	WASHER-BACKUP (INNER)	2	
4		NSS	O-RING	1	
5		NSS	O-RING (OUTER)	1	
6		NSS	WASHER-BACKUP (OUTER)	1	
7		NSS	O-RING	1	
8		3147043	PLUG-LIFT CHECK GRSN 3411-001	1	
		3147035	PLUG-LOAD CHECK STEEL K-6030		Inc. ref. 1-8
		3147037	REPAIR KIT GRESEN K-6032		Inc. Ref. 3-7

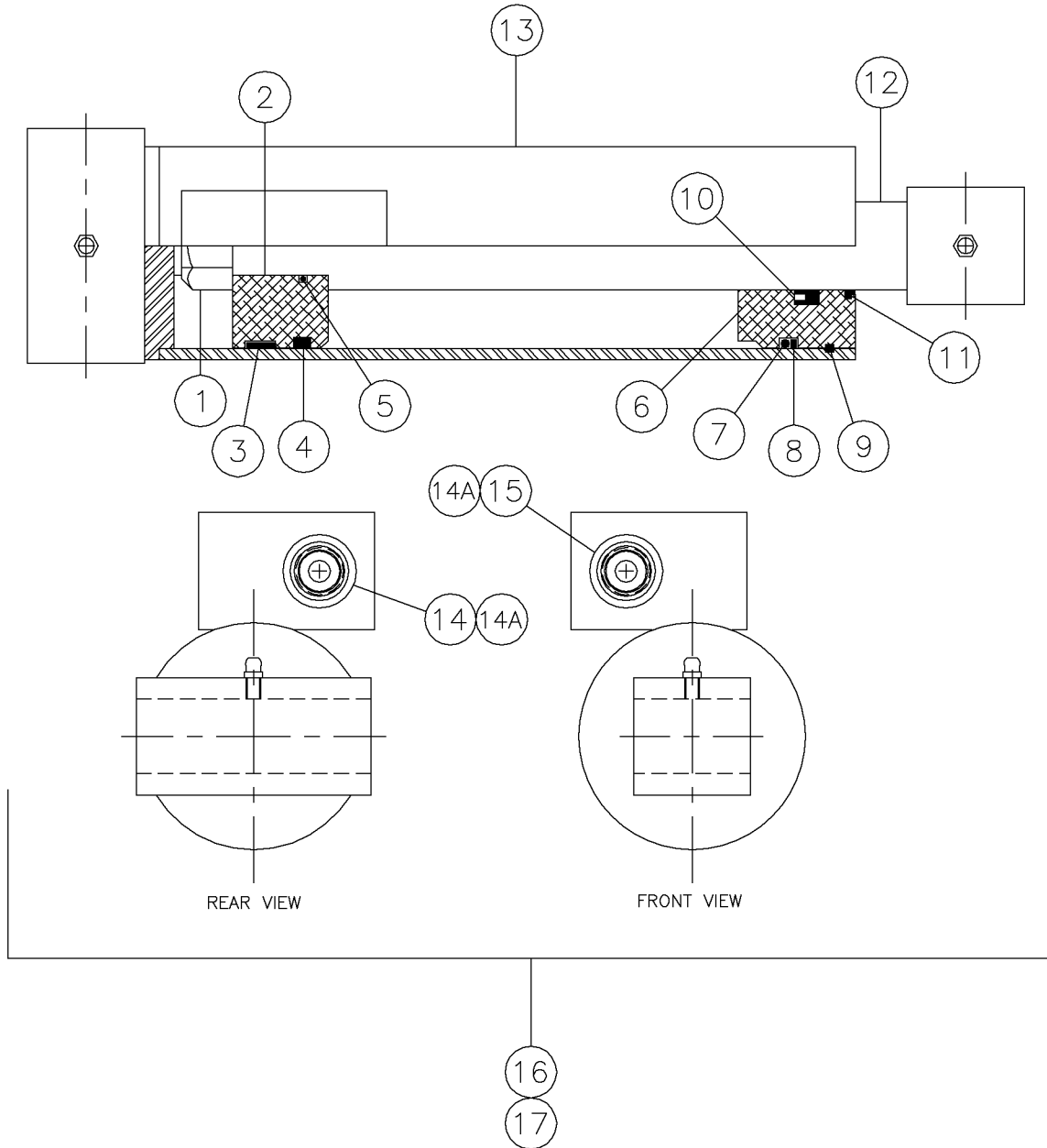
Cylinder-Rack Lift Fig 11-15r01



Cylinder-Rack Lift Fig 11-15r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	December, 2005		Update In Parts List.
1		306011	NUT-1-14 SL PRINCE 220000210	1	
2		610291001	PISTON	1	
3		278769003	WEAR RING	1	
4		278769005	PSP SEAL	1	
5		278769007	O-RING	1	
6		278769009	HEAD	1	
7		278769011	O-RING	1	
8		278769013	BACKUP	1	
9		610292001	RETAINING RING	1	
10		236113021	POLYPAK	1	
11		236113023	DUST SEAL	1	
12		278769015	SHAFT W/ CLEVIS	1	
13		278769017	BARREL ASSEMBLY (W/O VALVE)	1	
14		117037001	VALVE	1	
14A		278769021	REPAIR KIT	2	
15		278769023	VALVE	1	
16		278769025	REPAIR KIT	1	Inc. Ref. 3-5, 7, 8, 10, & 11
17		278769001	CYLINDER-3 1/2"BORE X 7"STROKE	1	Inc. All Items In Figure

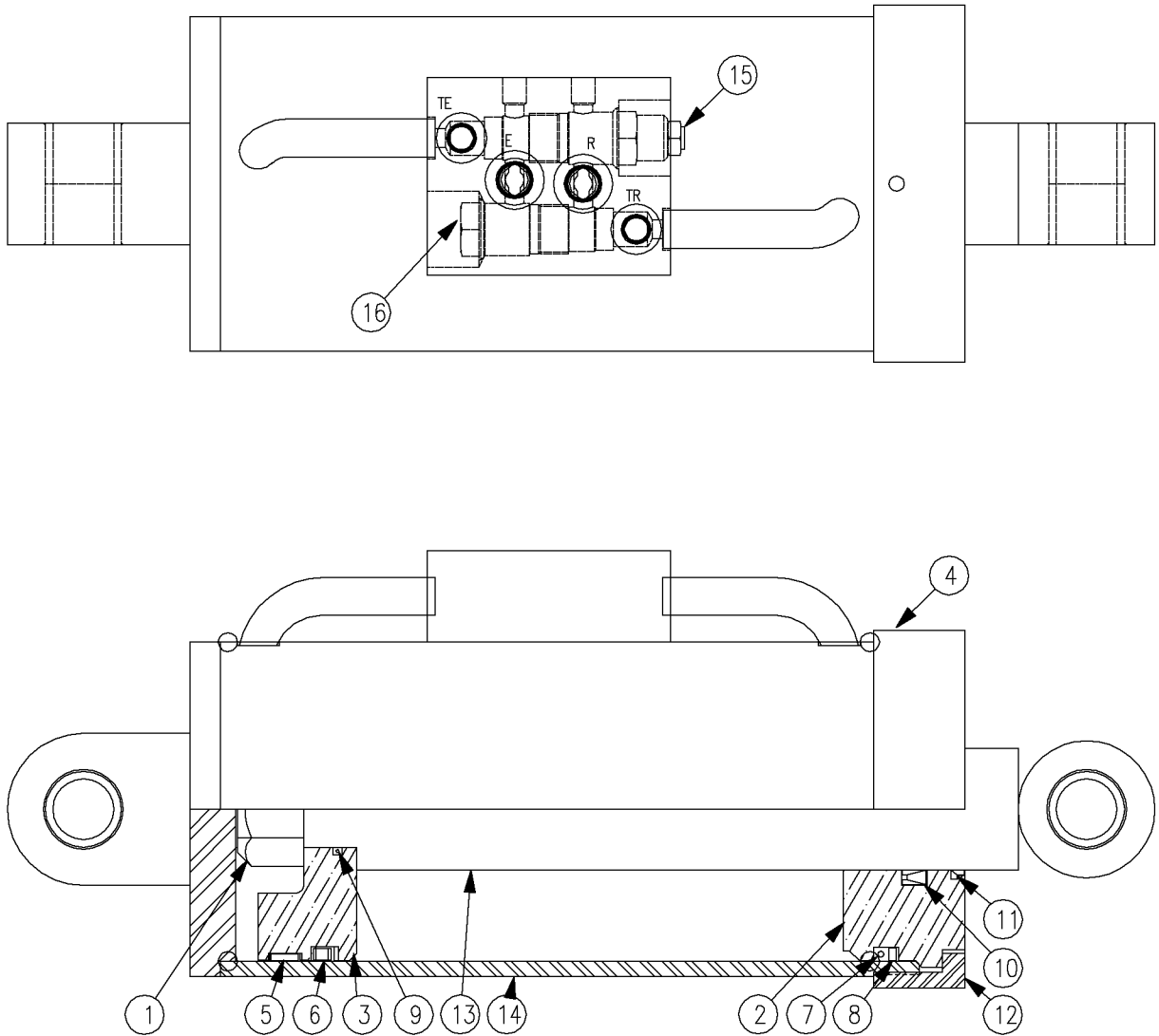
Cylinder-Rack Lift Fig 11-15



Cylinder-Rack Lift Fig 11-15

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		306011	NUT-1-14 SL PRINCE 220000210	1	
2		610291001	PISTON	1	
3		278769003	WEAR RING	1	
4		278769005	PSP SEAL	1	
5		278769007	O-RING	1	
6		278769009	HEAD	1	
7		278769011	O-RING	1	
8		278769013	BACKUP	1	
9		610292001	RETAINING RING	1	
10		236113021	POLYPAK	1	
11		236113023	DUST SEAL	1	
12		278769015	SHAFT W/ CLEVIS	1	
13		278769017	BARREL ASSEMBLY (W/O VALVE)	1	
14		278769019	VALVE	1	
14A		278769021	REPAIR KIT	2	
15		278769023	VALVE	1	
16		278769025	REPAIR KIT	1	Inc. Ref. 3-5, 7, 8, 10, & 11
17		278769001	CYLINDER-3 1/2"BORE X 7"STROKE	1	Inc. All Items In Figure

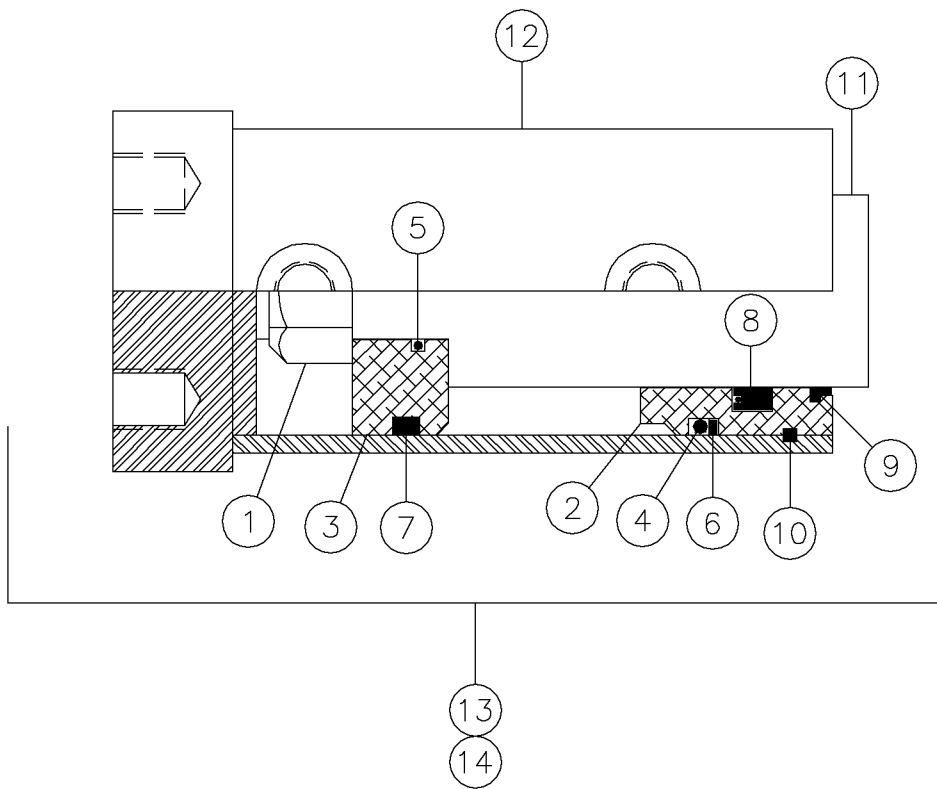
Cylinder-Outrigger Fig 11-16



Cylinder-Outrigger Fig 11-16

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296271143	NUT	1	
2		296271144	HEAD	1	
3		296271145	PISTON	1	
4		296271146	NYLOCK SET SCREW	1	
5		NSS	WEAR RING	1	
6		NSS	PSP SEAL	1	
7		NSS	O-RING	1	
8		NSS	BACKUP	1	
9		NSS	O-RING	1	
10		NSS	ROD SEAL	1	
11		NSS	DUST SEAL	1	
12		296271147	COLLAR - (SET SCREW)	1	
13		296271148	SHAFT W/CLEVIS	1	
14		296271149	BARREL W/PORTS	1	
15		278769023	VALVE	1	
16		278769019	VALVE	1	
		296280124	CYLINDER - 5 X 8 3000PSI		Inc. All Items In Figure
		296271150	REPAIR KIT		Inc. Ref. 5-11
			NSS-NOT SOLD SEPARATELY		

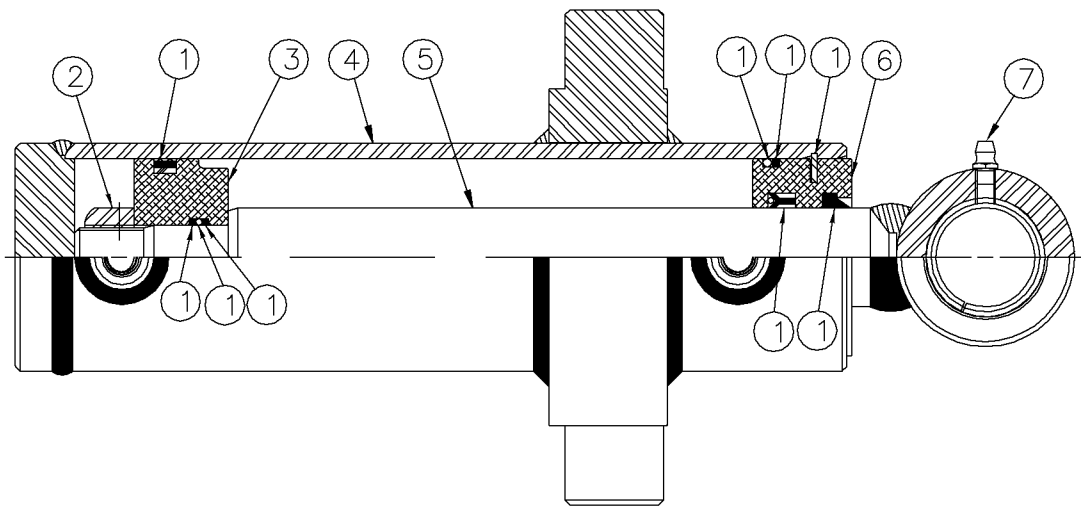
Cylinder-Lock Fig 11-17



Cylinder-Lock Fig 11-17

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		236113003	NUT	1	
2		278306002	HEAD - CYLINDER	1	
3		278306003	PISTON - CYLINDER	1	
4		NSS	O-RING	1	
5		NSS	O-RING	1	
6		NSS	BACKUP	1	
7		NSS	PSP SEAL	1	
8		NSS	POLYPACK	1	
9		NSS	DUST SEAL	1	
10		NSS	RETAINING RING	1	
11		278306004	SHAFT - CYLINDER	1	
12		278306005	BARREL W/ PORTS	1	
13		278306006	REPAIR KIT	1	Inc. Ref. 4-9
14		278306001	CYLINDER - HYDRAULIC LOCK	1	Inc. All Items In Figure
			NSS-NOT SOLD SEPARATELY		

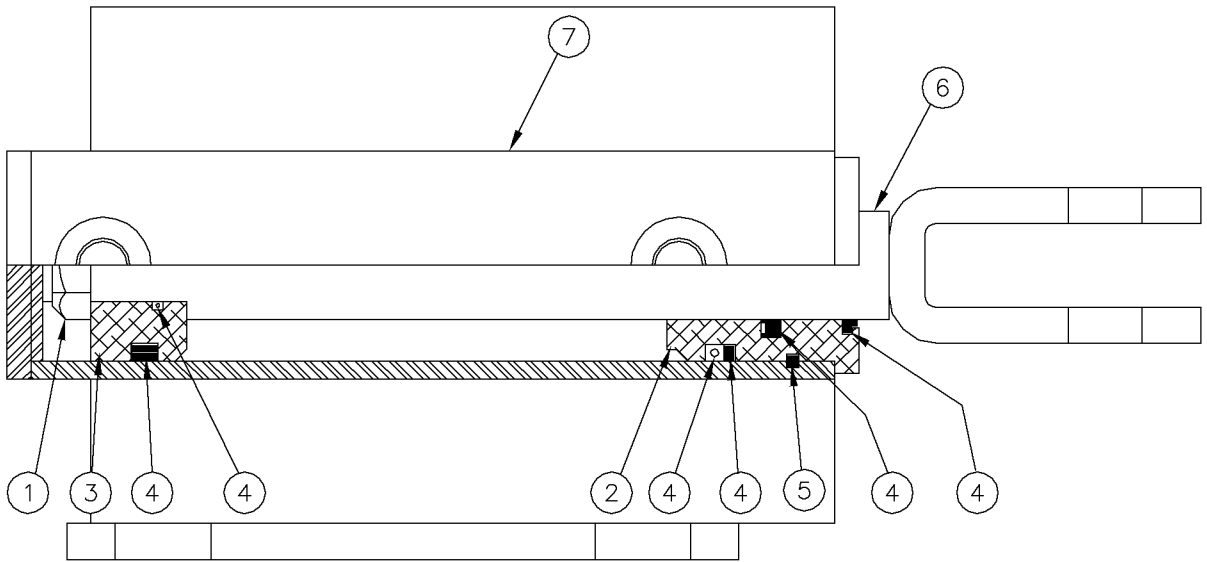
Cylinder-Vise Jaw Fig 11-18



Cylinder-Vise Jaw Fig 11-18

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296253319	SEAL KIT	1	
2		95631011	LOCK NUT	1	
3		296253320	PISTON	1	
4		296253321	BARREL ASSEMBLY	1	
5		296253322	BARREL ASSEMBLY	1	
6		296253323	SNAP RING HEAD	1	
7		598001	FITTING-1/4" NF ST GREASE ZERK	2	
		287590001	CYLINDER - 2-1/2 X 6-5/8		Inc. All Items In Figure

Cylinder-Rod Loader Lift Fig 11-19



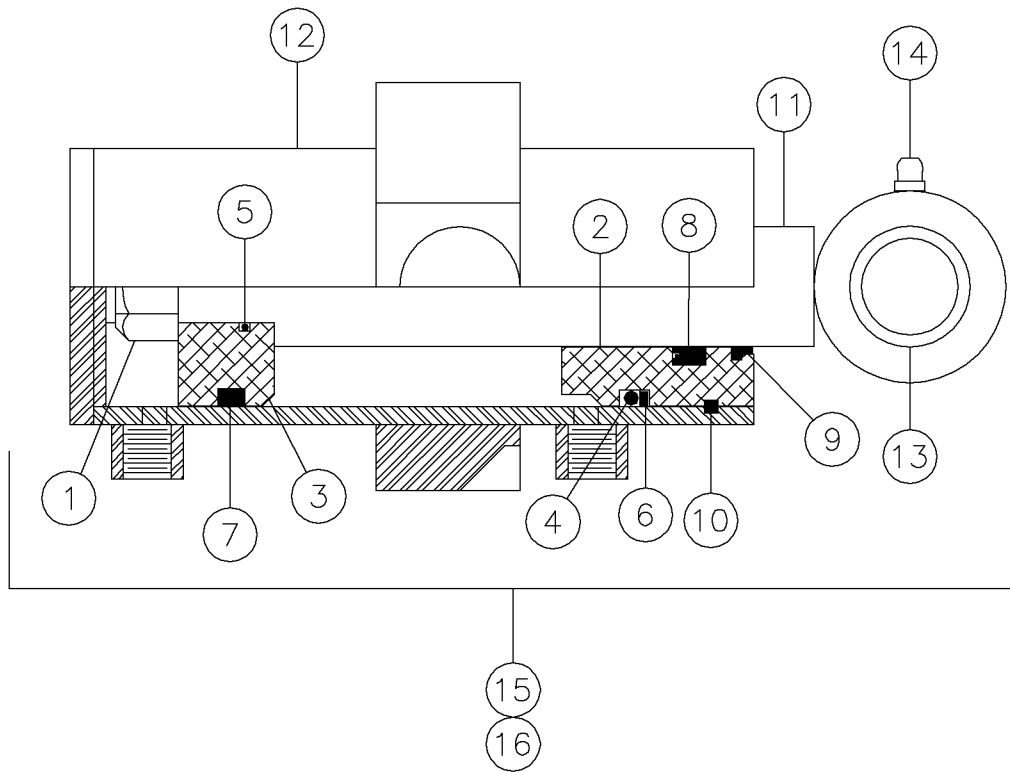
Cylinder-Rod Loader Lift Fig 11-19

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		230977003	NUT	1	
2		250494002	HEAD	1	
3		230977007	PISTON	1	
4		250494010	REPAIR KIT	1	
5		250494007	RETAINING RING	1	
6		250494008	SHAFT - (W/ CLEVIS)	1	
7		250494009	BARREL (W/ CLEVIS & PORTS)	1	
		250494001	CYLINDER - 2 X 5"		Inc All Items In Figure

Cylinder-Water Shut-Off Fig 11-20

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296253308	SEAL KIT	1	
2		296253309	LOCKNUT	1	
3		296253310	PISTON	1	
4		296253311	BARREL ASSEMBLY	1	
5		296253312	ROD	1	
6		296253313	SNAP RING HEAD	1	
		287591001	CYLINDER - 1 X 3-1/2		Inc. All Items In Figure

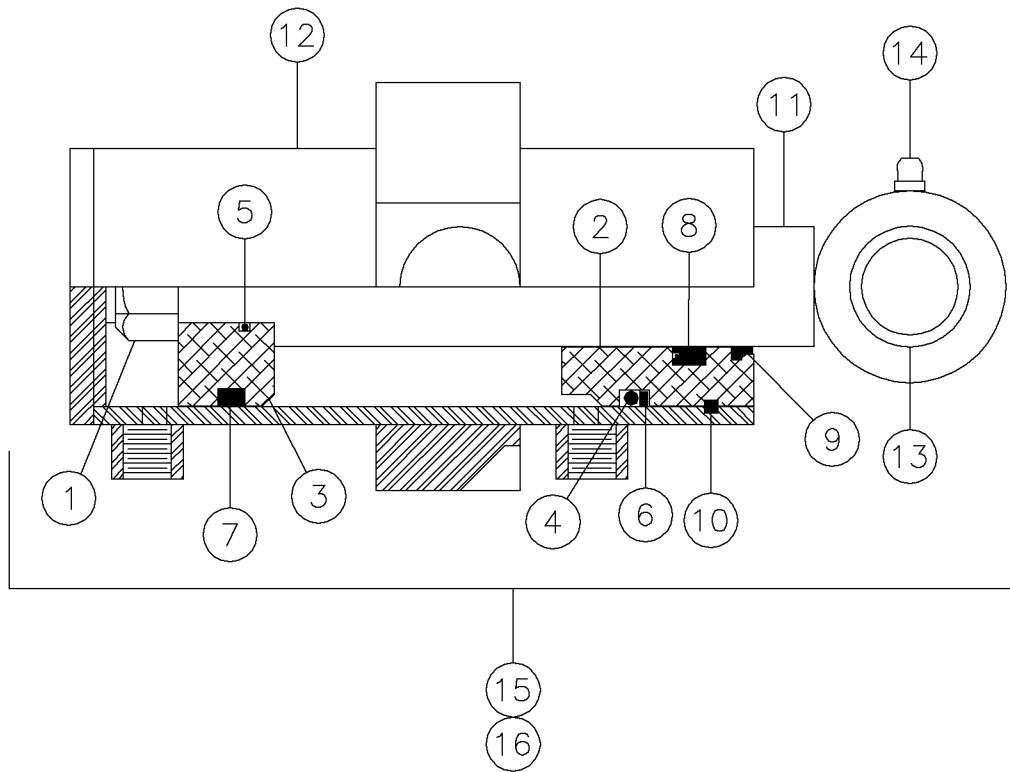
Cylinder-Rotation Fig 11-21r01



Cylinder-Rotation Fig 11-21r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Parts List.
1		241830003	NUT	1	
2		276260003	HEAD	1	
3		228165017	PISTON	1	
4		228165007	O-RING	1	
5		228165005	O-RING	1	
6		228165009	WASHER-BACK UP	1	
7		228165003	PSP SEAL	1	
8		228165013	POLYPAK SEAL	1	
9		228165015	DUST SEAL	1	
10		228165011	RING-RETAINING	1	
11		276260005	ROD - CYLINDER	1	Inc. One Of Ref. 14 & Two Of Ref. 13
12		276260007	BODY - CYLINDER	1	
13		1835015	BSHG.-STL.-1 1/4 X 1 X 1	1	
14		598001	FITTING-1/4" NF ST GREASE ZERK	1	
15		228165023	SEAL KIT	1	
16		276260001	CYLINDER-2 1/2 X 3 3000 PSI	1	Inc. All Items In Figure

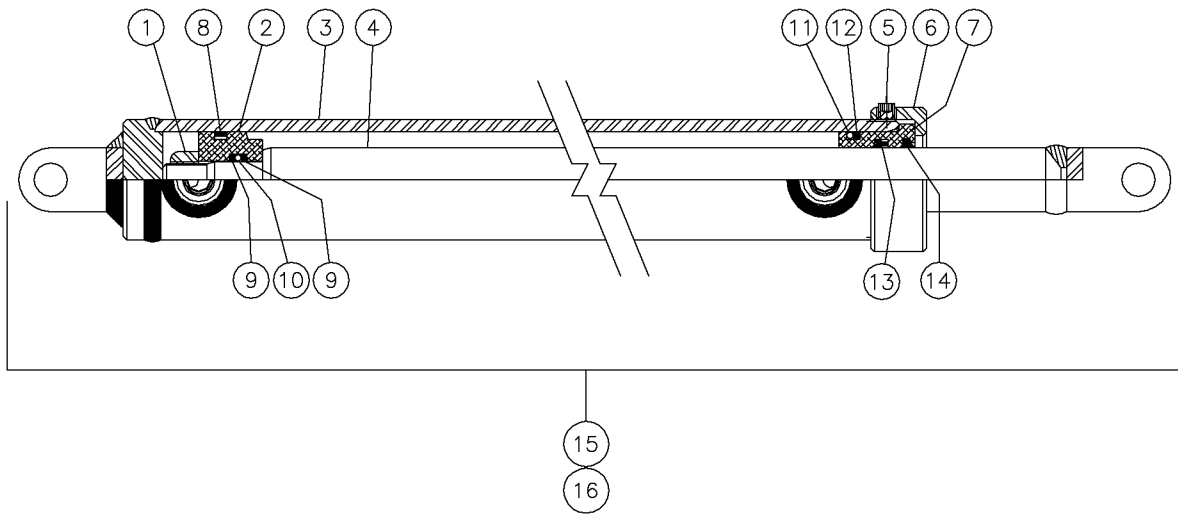
Cylinder-Rotation Fig 11-21



Cylinder-Rotation Fig 11-21

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		241830003	NUT	1	
2		276260003	HEAD	1	
3		228165017	PISTON	1	
4		228165007	O-RING	1	
5		228165005	O-RING	1	
6		228165009	WASHER-BACK UP	1	
7		228165003	PSP SEAL	1	
8		228165013	POLYPAK SEAL	1	
9		228165015	DUST SEAL	1	
10		228165011	RING-RETAINING	1	
11		276260005	ROD - CYLINDER	1	Inc. One Of Ref. 14 & Two Of Ref. 13
12		276260007	BODY - CYLINDER	1	
13		1835015	BSHG.-STL.-1 1/4 X 1 X 1	1	
14		598001	FITTING-1/4" NF ST GREASE ZERK	1	
15		228165023	SEAL KIT	1	
16		276265025	SEAL KIT	1	Inc. Ref. 4-9
17		276260001	CYLINDER-2 1/2 X 3 3000 PSI	1	Inc. All Items In Figure

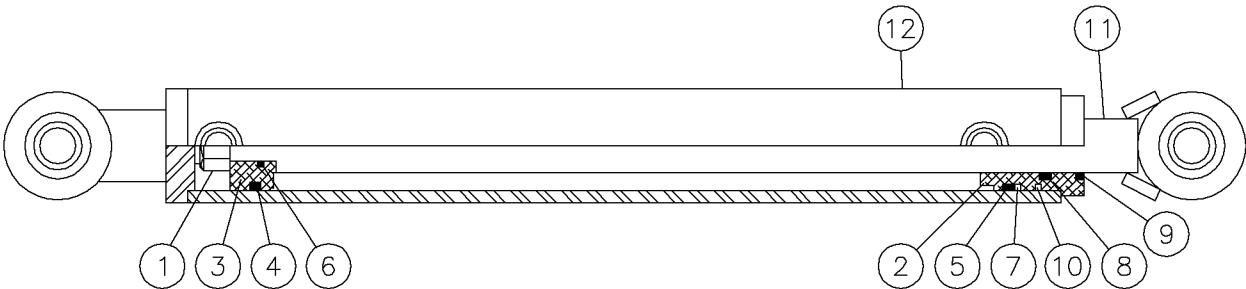
Cylinder-Stakedown Fig 11-22



Cylinder-Stakedown Fig 11-22

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		202722001	LOCKNUT	1	
2		287588004	PISTON	1	
3		287588005	BARREL ASSEMBLY	1	
4		287588006	ROD ASSEMBLY	1	
5		223998013	SET SCREW	1	
6		287588007	THREAD CAP	1	
7		287588008	THREAD CAP HEAD	1	
8		NSS	PSP SEAL	1	
9		NSS	BACKUP	1	
10		NSS	O-RING	1	
11		NSS	O-RING	1	
12		NSS	BACKUP	1	
13		NSS	LOADED V-CUP	1	
14		NSS	ROD WIPER	1	
15		287588002	SEAL KIT	1	Inc. Ref. 8-14
16		287588001	CYLINDER - 1-1/2 X 24		Inc. All Items In Figure
		NSS	NOT SOLD SEPARATELY		

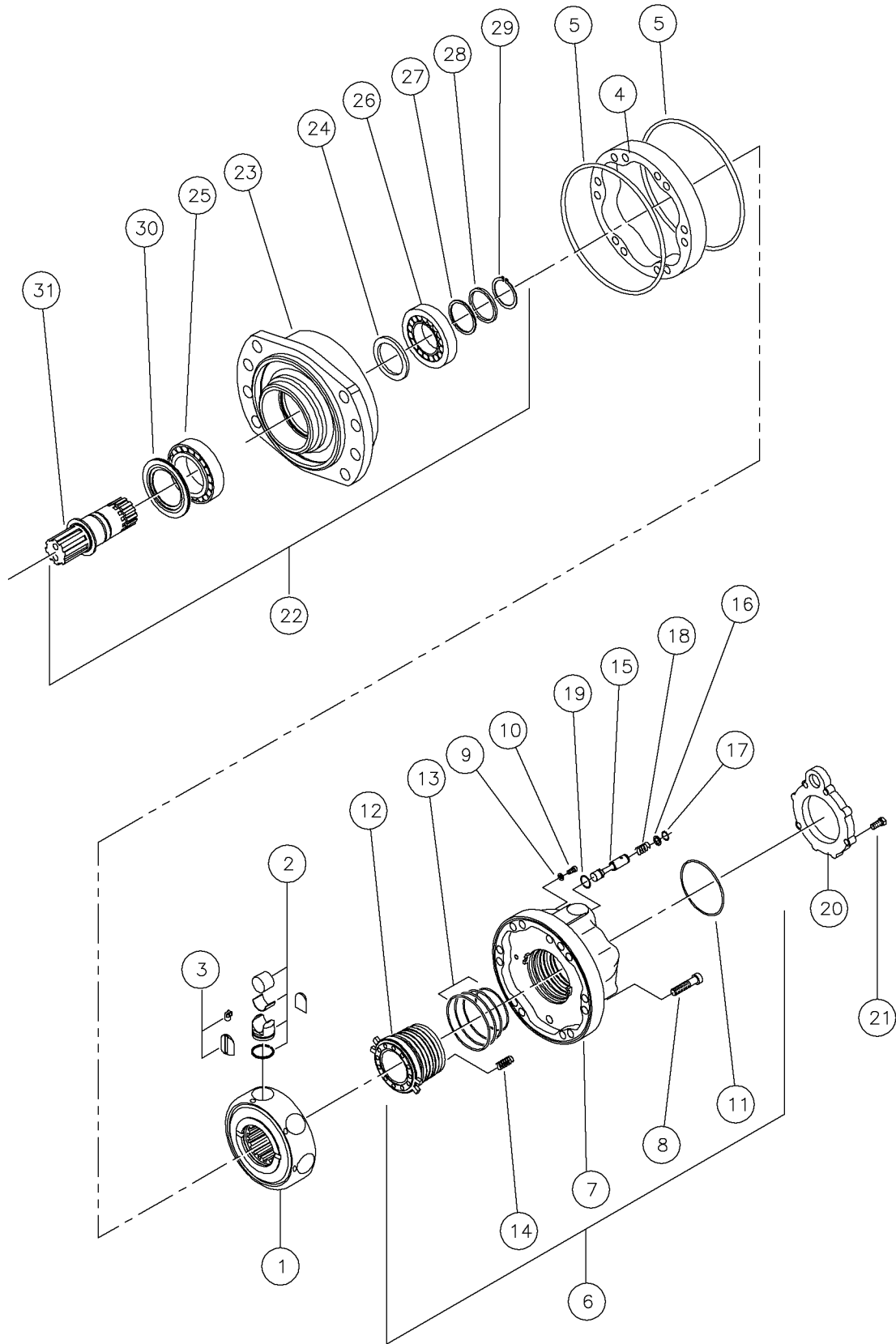
Cylinder-Tubing Tong Fig 11-23



Cylinder-Tubing Tong Fig 11-23

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		230977003	NUT	1	
2		230977005	HEAD	1	
3		230977007	PISTON	1	
4		NSS	PSP-SEAL	1	
5		NSS	O-RING #326	1	
6		NSS	O-RING	1	
7		NSS	BACK-UP	1	
8		NSS	ROD SEAL	1	
9		NSS	DUST SEAL	1	
10		NSS	RETAINING RING1	1	
11		230977019	SHAFT (W/CLEVIS)	1	
12		230977021	BARREL W/CLEVIS AND PORTS	1	
		230977001	CYLINDER 2"X15 XCX		Inc. All Items In Figure
		230977023	REPAIR KIT		Inc. Ref. 4-10
		NSS	NOT SOLD SEPARATELY		

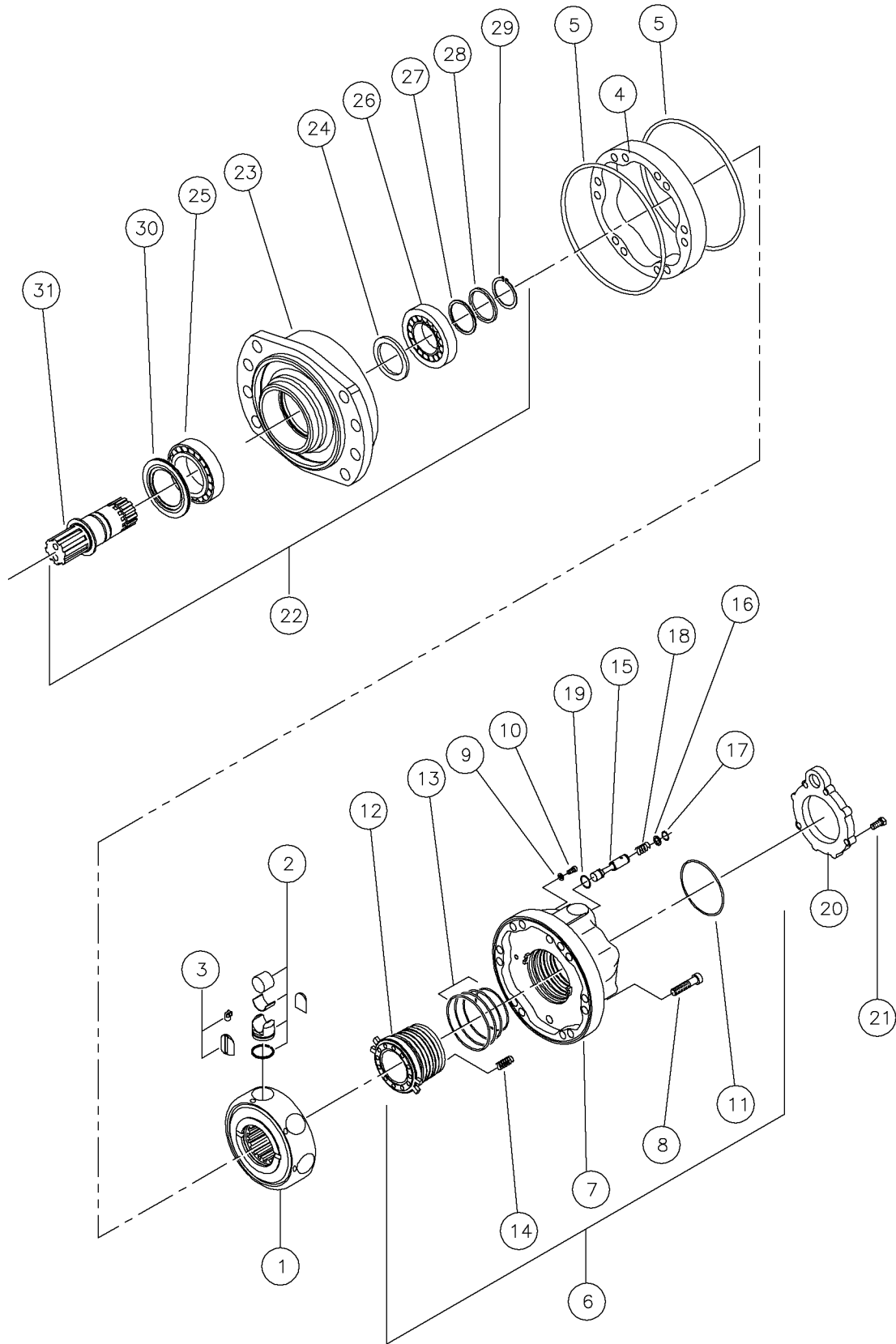
Hyd. Motor Fig 11-24



Hyd. Motor Fig 11-24

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		224897003	CYLINDER BLOCK	1	Inc. Ref. 2-3
2		224897005	PISTON CL "0"	1	Inc. Two Of Ref. 5
3		224897017	REPAIR KIT-PISTON	1	
4		296278023	CAM RING	1	
5		256555021	O-RING	2	
6		296278024	VALVING COVER ASSEMBLY	1	Inc. Ref. 7-19
7		235790005	VALVING COVER	1	
8		235790007	SCREW	16	
9		608383001	WASHER	2	
10		140255041	SCREW - BOLT	2	
11		608385001	O-RING	1	
12		296278025	VALVING	1	
13		256555027	SEAL KIT	1	
14		84550029	SPRING	8	
15		235790013	VALVE SPOOL	1	
16		235790017	WASHER	1	
17		235790019	SNAP RING	1	
18		235790015	SPRING	1	
19		235790011	O-RING	1	
20		235790021	BACK PLATE	1	Inc. Six Of Ref. 21
21		235790023	BOLT	6	
22		276258011	BEARING SUPPORT ASSEMBLY	1	Inc. Ref. 23-31
23		276258005	BEARING SUPPORT	1	
24		256555011	RUBBER SEAL RING	1	
25		256555007	BEARING	1	
26		256555013	BEARING	1	
27		256555015	SET OF SPUDS	1	
28		256555017	RING	1	
29		208165001	SNAP RING	1	
30		256555005	ENVIRONMENT SEAL	1	
31		276258009	SHAFT	1	
		296272979	SEAL KIT	1	
		256555029	SEAL KIT	1	
		296279982	MOTOR - HYD MS08 - P G		Inc. All Items In Figure

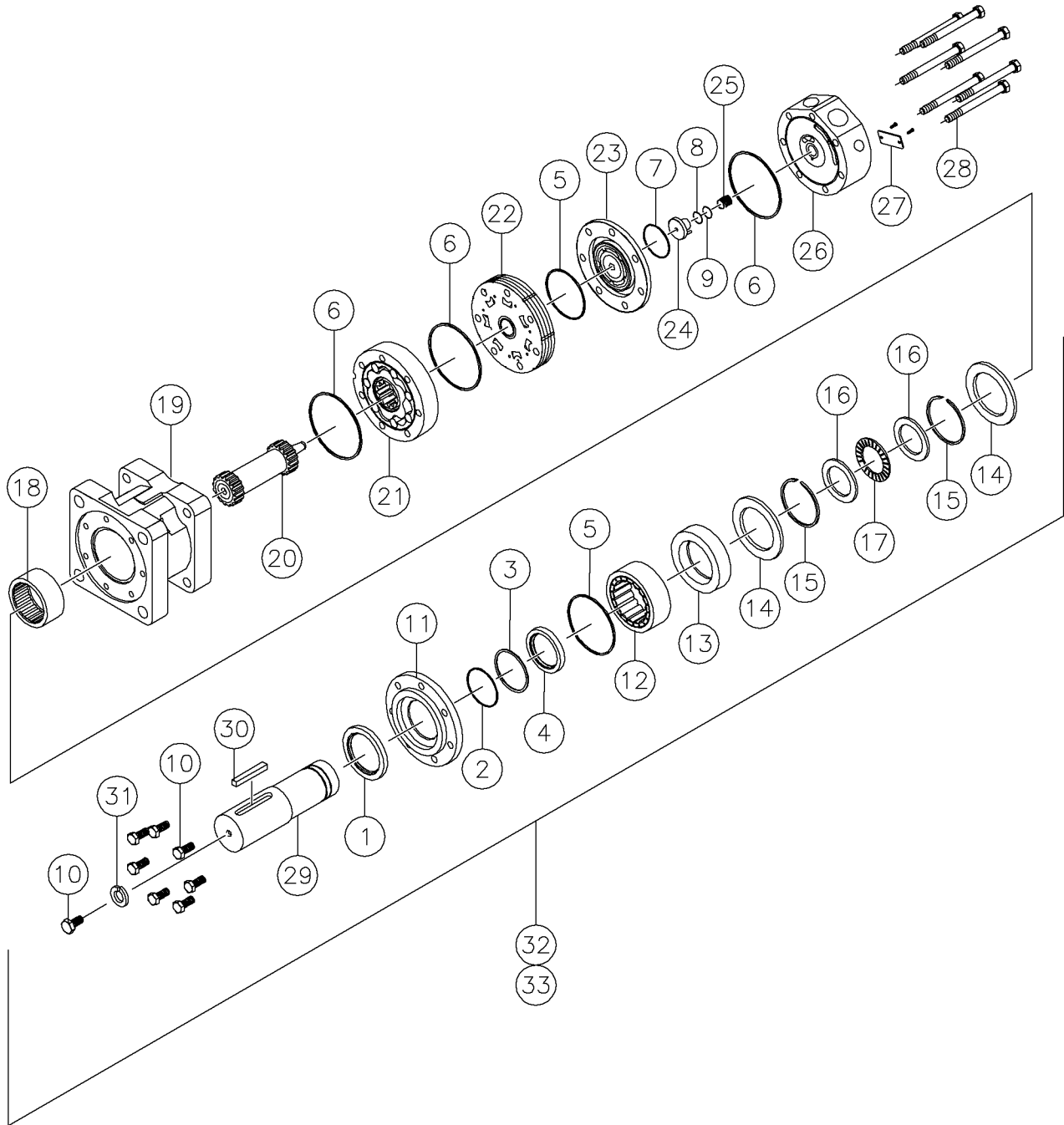
Hyd. Motor Fig 11-25



Hyd. Motor Fig 11-25

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		224897003	CYLINDER BLOCK	1	Inc. Ref. 2-3
2		224897005	PISTON CL "0"	1	Inc. Two Of Ref. 5
3		224897017	REPAIR KIT-PISTON	1	
4		296278023	CAM RING	1	
5		256555021	O-RING	2	
6		296278024	VALVING COVER ASSEMBLY	1	Inc. Ref. 7-19
7		235790005	VALVING COVER	1	
8		235790007	SCREW	16	
9		608383001	WASHER	2	
10		140255041	SCREW - BOLT	2	
11		608385001	O-RING	1	
12		296278025	VALVING	1	
13		256555027	SEAL KIT	1	
14		84550029	SPRING	8	
15		235790013	VALVE SPOOL	1	
16		235790017	WASHER	1	
17		235790019	SNAP RING	1	
18		235790015	SPRING	1	
19		235790011	O-RING	1	
20		235790021	BACK PLATE	1	Inc. Six Of Ref. 21
21		235790023	BOLT	6	
22		276258011	BEARING SUPPORT ASSEMBLY	1	Inc. Ref. 23-31
23		276258005	BEARING SUPPORT	1	
24		256555011	RUBBER SEAL RING	1	
25		256555007	BEARING	1	
26		256555013	BEARING	1	
27		256555015	SET OF SPUDS	1	
28		256555017	RING	1	
29		208165001	SNAP RING	1	
30		256555005	ENVIRONMENT SEAL	1	
31		276258009	SHAFT	1	
		296272979	SEAL KIT	1	
		256555029	SEAL KIT	1	
		296279981	MOTOR - HYD MS08 - 9 D		Inc. All Items In Figure

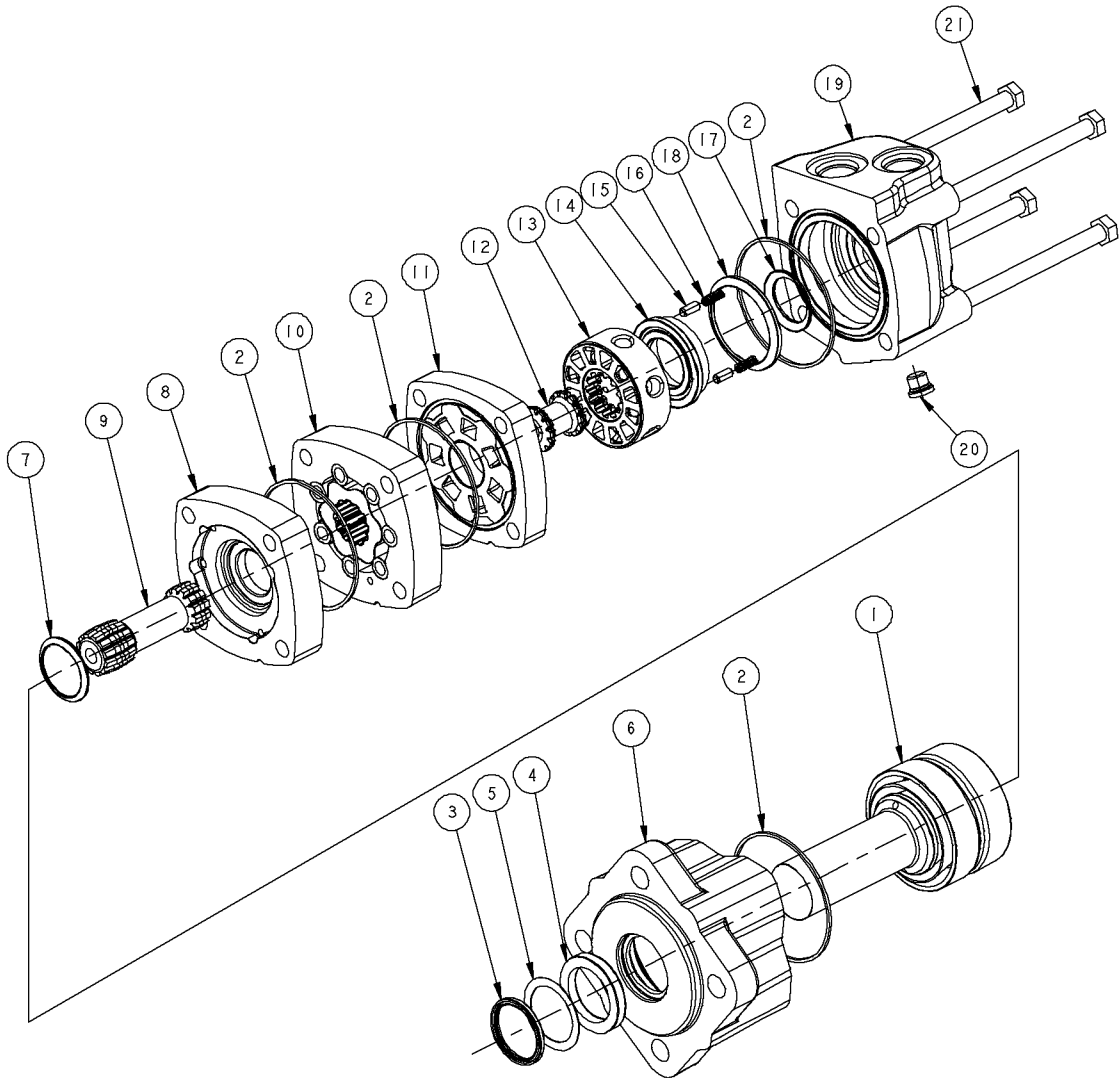
Motor-Stakedown Fig 11-26



Motor-Stakedown Fig 11-26

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		NSS	SEAL-DUST	1	
2		NSS	SHIM-METAL BACKUP	1	
3		NSS	SEAL-TEFLON BACKUP	1	
4		NSS	SEAL-SHAFT	1	
5		NSS	SEAL-LATHE CUT	2	
6		NSS	SEAL-BODY	3	
7		NSS	SEAL COMMUTATOR	1	
8		NSS	SEAL O-RING	1	
9		NSS	SEAL-TEFLON BACKUP	1	
10		383010	BOLT-1/2-20X1 GR.8 HEX HEAD	8	
11		236219007	RING-PILOT	1	
12		236219009	BEARING-2 1/2" ROLLER	1	
13		236219011	SPACER-BEARING	1	
14		236219013	WASHER-RETAINING	2	
15		236219015	SNAP RING	2	
16		236219017	WASHER-THRUST	2	
17		236219019	BEARING-THRUST	1	
18		236219021	BEARING-REAR HOUSING	1	
19		236219023	HOUSING	1	
20		236219025	DRIVE LINK	1	
21		236219027	ROTOR ASSEMBLY	1	
22		236219029	MANIFOLD	1	
23		236219031	COMMUTATOR ASSEMBLY	1	
24		236219033	PISTON-ENDCOVER	1	
25		236219035	SPRING-PISTON	1	
26		236219037	ENDCOVER	1	Inc. Ref. 8, 9, 24, And 25
27		NSS	I.D. TAG ASSEMBLY	1	
28		236219039	BOLT	7	
29		236219041	SHAFT-ASSEMBLY	1	Inc. Ref. 1-5, 10-17, And 29-31
30		236219005	KEY-SHAFT	1	
31		480011	WASHER-1/2 S/T LOCK	1	
32		236219003	SEAL KIT-HYD. MOTOR		Inc. Ref. 1-9
33		236219001	HYD MOTOR-66CI		Inc. All Items In Figure
			NSS-NOT SOLD SEPARATLY		

Motor-Rod Loader Fig 11-27

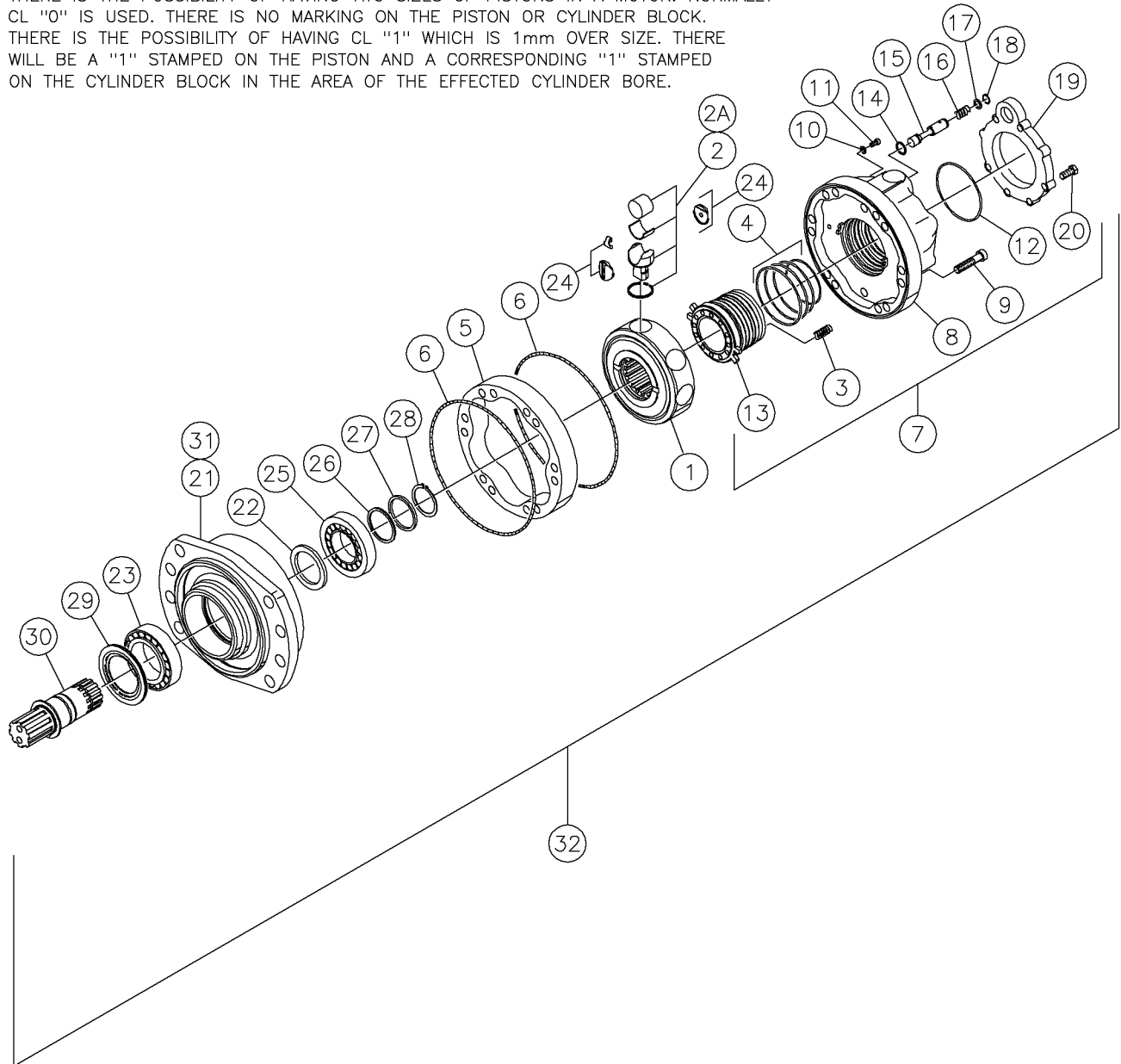


Motor-Rod Loader Fig 11-27

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		206469001	SHAFT&BEARING KIT/1 1/4SPLINED	1	
2		296271200	O-RING	4	
3		770071	SEAL-DUST # 9121-1	1	
4		61062001	SHAFT SEAL-9057-009	1	
5		260576013	WASHER-BACKUP	1	
6		246413003	HOUSING - 4 BOLT MAGNET	1	
7		296285068	SEAL- SHAFT FACE	1	
8		770079	PLATE-WEAR # 21623	1	
9		70020003	DRIVE- # 21371-7	1	
10		70020005	GEROLER ASSY- # 21625-7	1	
11		510503701	PLATE, VALVE - #22134-000	1	
12		243316013	DRIVE-VALVE	1	
13		243316017	VALVE	1	
14		770089	PLATE-BALANCE #8915	1	
15		243316023	PIN	2	
16		243316025	SPRING	2	
17		243316019	SEAL-INNER FACE	1	
18		243316021	SEAL-OUTER FACE	1	
19		246413005	HOUSING-VALVE(#10ENDPTS,#4CASE	1	
20		180005760	PLUG - SUB ASSY	1	
21		774017	BOLT-14384-012	4	
		296275142	MOTOR - HYD 2000 SPLINE		Inc. All Items In Figure
		296285069	SEAL KIT		

Motor-Thrust Fig 11-28r01

THERE IS THE POSSIBILITY OF HAVING TWO SIZES OF PISTONS IN A MOTOR. NORMALLY CL "0" IS USED. THERE IS NO MARKING ON THE PISTON OR CYLINDER BLOCK. THERE IS THE POSSIBILITY OF HAVING CL "1" WHICH IS 1mm OVER SIZE. THERE WILL BE A "1" STAMPED ON THE PISTON AND A CORRESPONDING "1" STAMPED ON THE CYLINDER BLOCK IN THE AREA OF THE EFFECTED CYLINDER BORE.

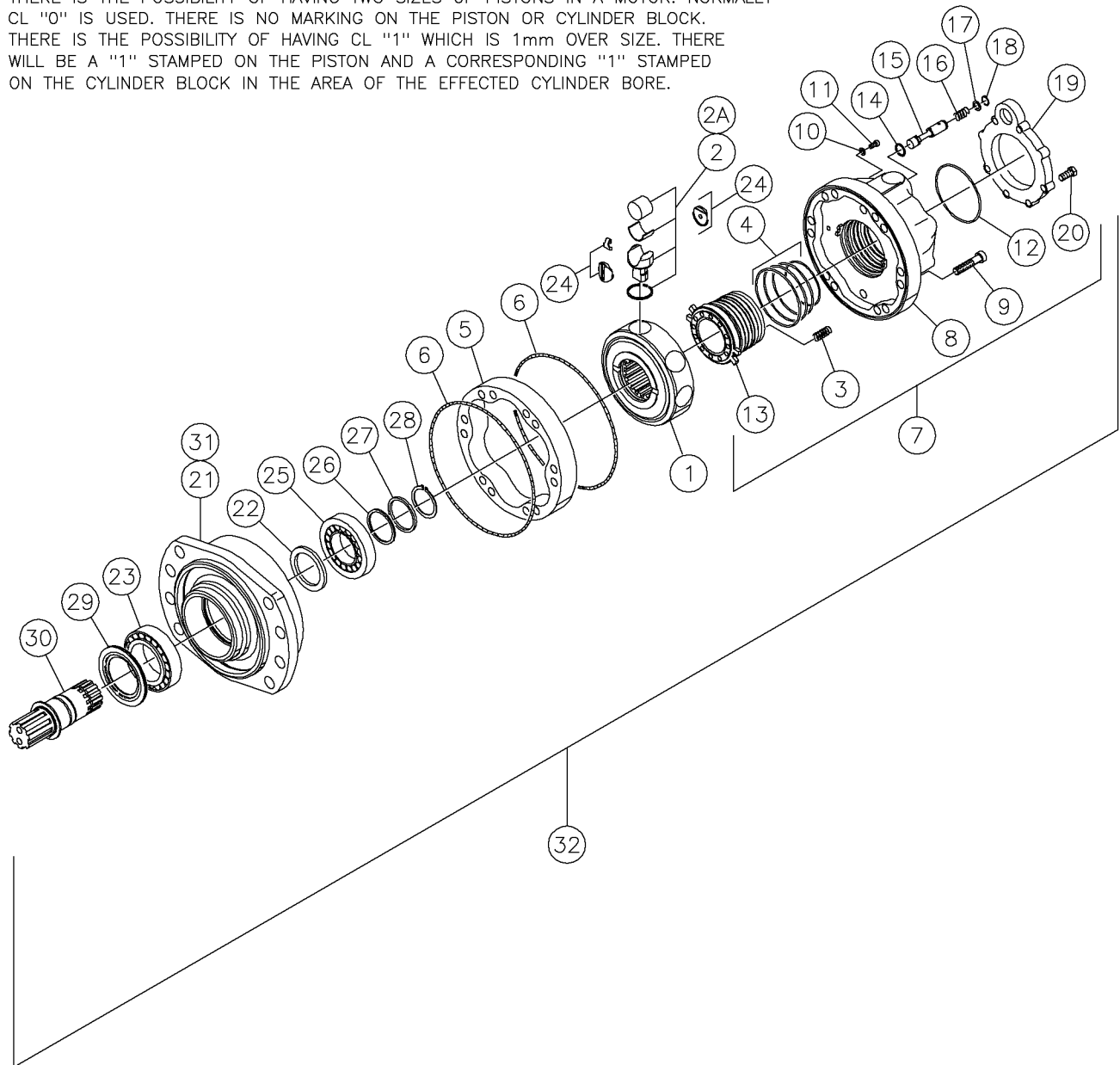


Motor-Thrust Fig 11-28r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Parts List.
1		224897003	CYLINDER BLOCK	1	
2		208148001	PISTON CL.1	A/R	
2A		224897005	PISTON CL."O XCX	A/R	
3		84550029	SPRING	8	
4		208157001	VALVE SEAL RING	1	
5		276258003	CAM RING	1	
6		208152001	O-RING	2	
7		235790003	VALVE COVER ASSEMBLY	1	Inc. Ref. 3, 4, And 8-20
8		235790005	VALVING COVER	1	
9		235790007	SCREW	16	
10		64078025	WASHER	2	
11		64078027	SCREW-BLEEDING	2	
12		83651025	O-RING-2.62X145.72	1	
13		235790009	VALVING	1	
14		235790011	O-RING	1	
15		235790013	VALVE SPOOL	1	
16		235790015	SPRING	1	
17		235790017	WASHER	1	
18		235790019	SNAP RING	1	
19		235790021	BACK PLATE	1	
20		235790023	BOLT	6	
21		276258005	BEARING SUPPORT	1	
22		208160001	INNER SHAFT SEAL	1	
23		905439009	OUTER BEARING	1	
24		224897017	REPAIR KIT-PISTON	1	
25		208162001	INNER BEARING	1	
26		208163001	SHIM	1	
27		208164001	WASHER	1	
28		224897015	SNAP RING	1	
29		276258007	ENVIRONMENTAL SEAL	1	
30		276258009	SHAFT	1	
31		276258011	BEARING SUPPORT ASSEMBLY	1	Inc. Ref. 21-23 And 25-30
32		276258001	MOTOR-57.5 CI/REV MS08 D PREF	1	Inc. All Items In Figure

Motor-Thrust Fig 11-28

THERE IS THE POSSIBILITY OF HAVING TWO SIZES OF PISTONS IN A MOTOR. NORMALLY CL "0" IS USED. THERE IS NO MARKING ON THE PISTON OR CYLINDER BLOCK. THERE IS THE POSSIBILITY OF HAVING CL "1" WHICH IS 1mm OVER SIZE. THERE WILL BE A "1" STAMPED ON THE PISTON AND A CORRESPONDING "1" STAMPED ON THE CYLINDER BLOCK IN THE AREA OF THE EFFECTED CYLINDER BORE.

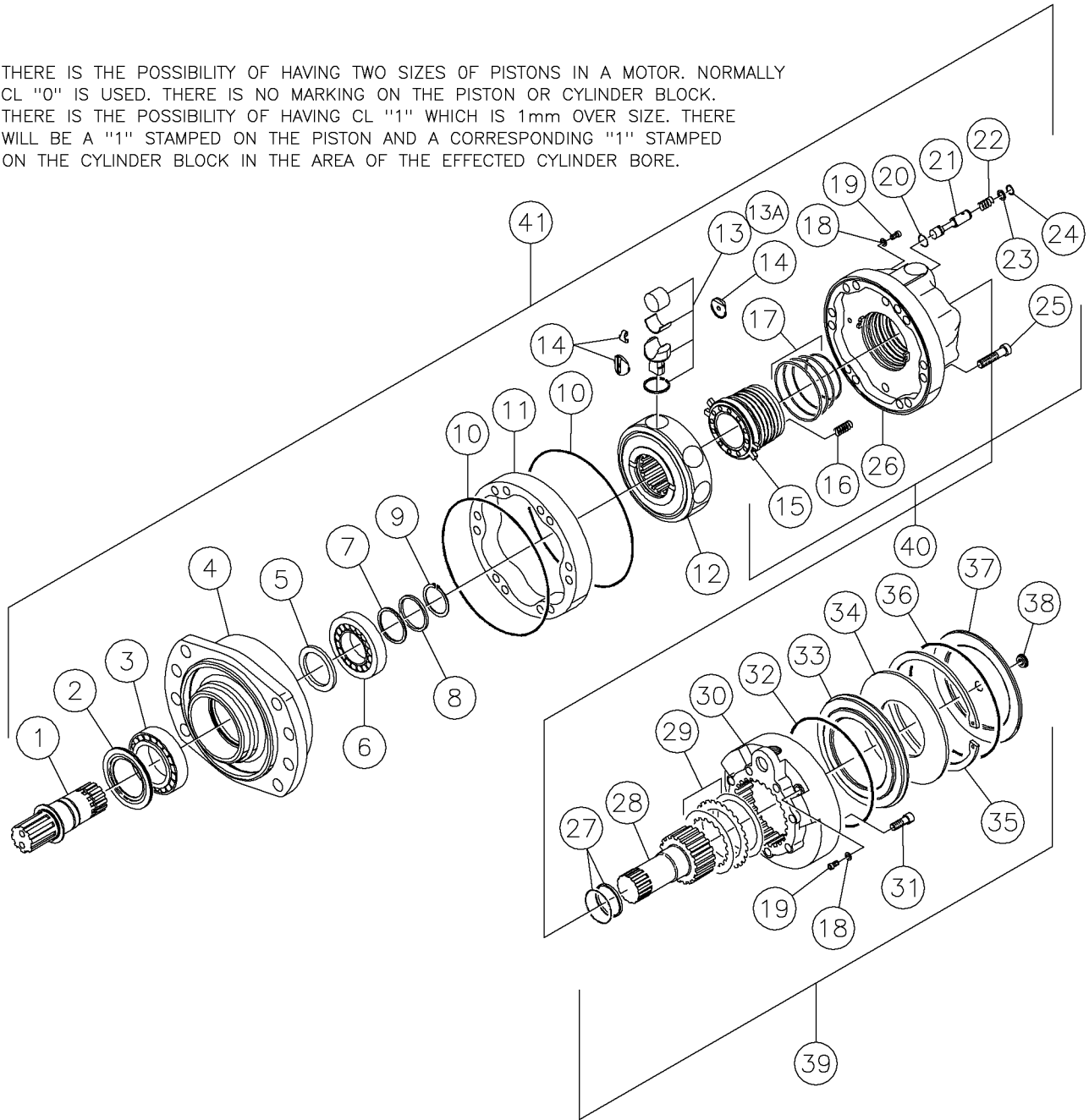


Motor-Thrust Fig 11-28

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		224897003	CYLINDER BLOCK	1	
2		208148001	PISTON CL.1	A/R	
2A		224898005	PISTON CL."O XCX	A/R	
3		84550029	SPRING	8	
4		208157001	VALVE SEAL RING	1	
5		276258003	CAM RING	1	
6		208152001	O-RING	2	
7		235790003	VALVE COVER ASSEMBLY	1	Inc. Ref. 3, 4, And 8-20
8		235790005	VALVING COVER	1	
9		235790007	SCREW	16	
10		64078025	WASHER	2	
11		64078027	SCREW-BLEEDING	2	
12		83651025	O-RING-2.62X145.72	1	
13		235790009	VALVING	1	
14		235790011	O-RING	1	
15		235790013	VALVE SPOOL	1	
16		235790015	SPRING	1	
17		235790017	WASHER	1	
18		235790019	SNAP RING	1	
19		235790021	BACK PLATE	1	
20		235790023	BOLT	6	
21		276258005	BEARING SUPPORT	1	
22		208160001	INNER SHAFT SEAL	1	
23		905439009	OUTER BEARING	1	
24		224897017	REPAIR KIT-PISTON	1	
25		208162001	INNER BEARING	1	
26		208163001	SHIM	1	
27		208164001	WASHER	1	
28		224897015	SNAP RING	1	
29		276258007	ENVIRONMENTAL SEAL	1	
30		276258009	SHAFT	1	
31		276258011	BEARING SUPPORT ASSEMBLY	1	Inc. Ref. 21-23 And 25-30
32		276258001	MOTOR-57.5 CI/REV MS08 D PREF	1	Inc. All Items In Figure

Motor-Thrust W/Brake Fig 11-29

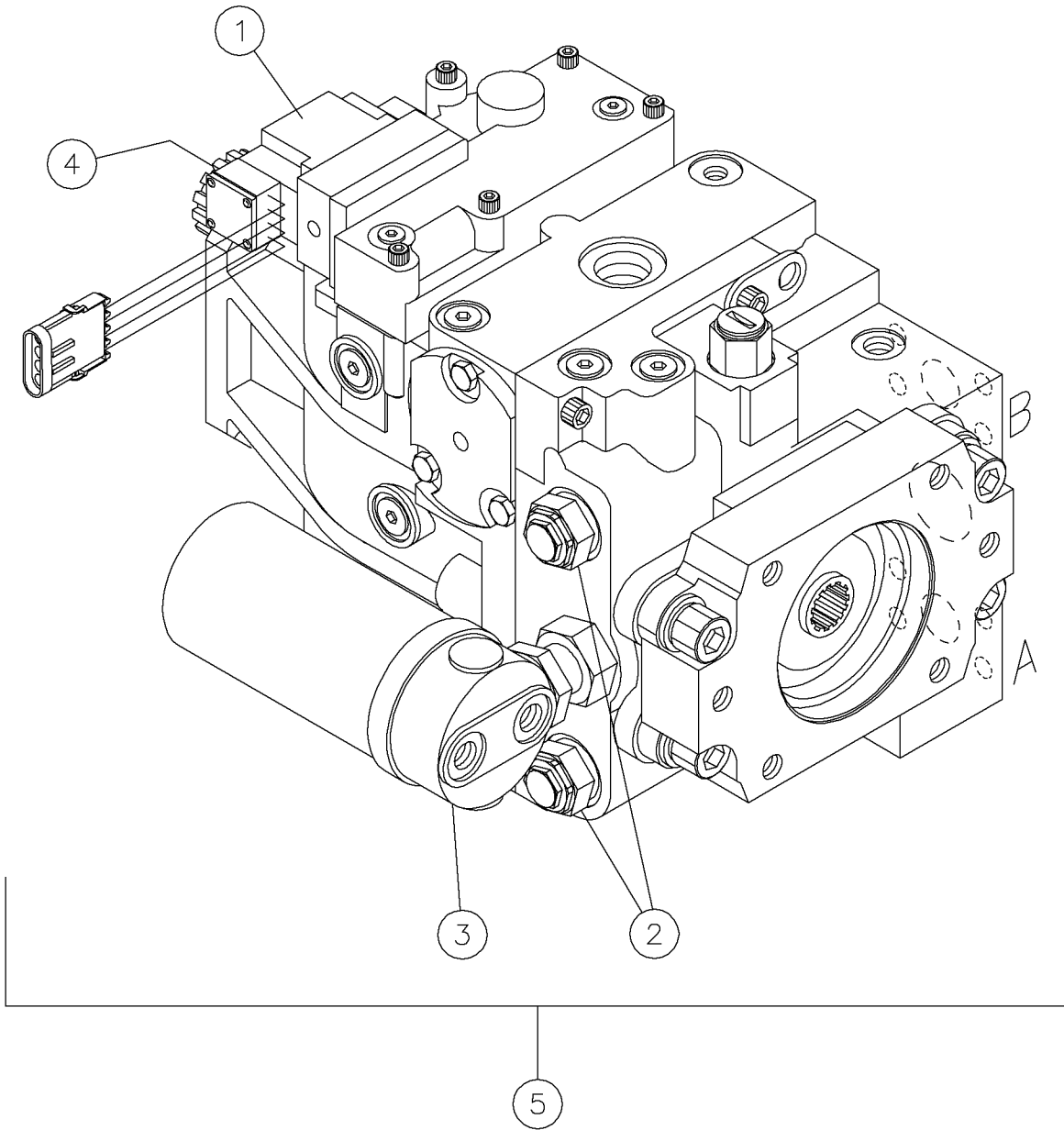
THERE IS THE POSSIBILITY OF HAVING TWO SIZES OF PISTONS IN A MOTOR. NORMALLY CL "0" IS USED. THERE IS NO MARKING ON THE PISTON OR CYLINDER BLOCK. THERE IS THE POSSIBILITY OF HAVING CL "1" WHICH IS 1mm OVER SIZE. THERE WILL BE A "1" STAMPED ON THE PISTON AND A CORRESPONDING "1" STAMPED ON THE CYLINDER BLOCK IN THE AREA OF THE EFFECTED CYLINDER BORE.



Motor-Thrust W/Brake Fig 11-29

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		276258009	SHAFT	1	
2		276258007	ENVIRONMENTAL SEAL	1	
3		905439009	OUTER BEARING	1	
4		276258005	BEARING SUPPORT	1	
5		208160001	INNER SHAFT SEAL	1	
6		208162001	INNER BEARING	1	
7		208163001	SHIM	1	
8		208164001	WASHER	1	
9		224897015	SNAP RING	1	
10		208152001	O-RING	2	
11		276258003	CAM RING	1	
12		224897003	CYLINDER BLOCK	1	Inc. Ref. 13 & 14
13		208148001	PISTON CL.1	A/R	
13A		224897005	PISTON CL "0"	A/R	
14		224897017	REPAIR KIT-PISTON	1	
15		235790009	VALVING	1	
16		84550029	SPRING	8	
17		208157001	VALVE SEAL RING	1	
18		64078025	WASHER	4	
19		64078027	SCREW-BLEEDING	4	
20		235790011	O-RING	1	
21		235790013	VALVE SPOOL	1	
22		235790015	SPRING	1	
23		235790017	WASHER	1	
24		235790019	SNAP RING	16	
25		235790007	SCREW	1	
26		235790005	VALVING COVER	1	
27		278973019	SEAL	1	
28		278973017	SHAFT	1	
29		278973021	BRAKE DISC KIT	1	
30		278973005	BRAKE BODY	1	
31		278973007	SCREW	8	
32		278973009	O-RING	1	
33		278973011	BRAKE PISTON	1	
34		278973013	SPRING WASHER	1	
35		278973015	SNAP RING	1	
36		278973025	O-RING	1	
37		278973027	PROTECTOR	1	
38		278973023	PLUG	1	
39		278973003	DISC BRAKE	1	Inc. Ref. 27-38
40		235790003	VALVING COVER ASSY	1	Inc. Ref. 15-26
41		278973001	MOTOR - 57.5 CID MSO8 G W/ BRAKE	1	Inc. All Items In Figure

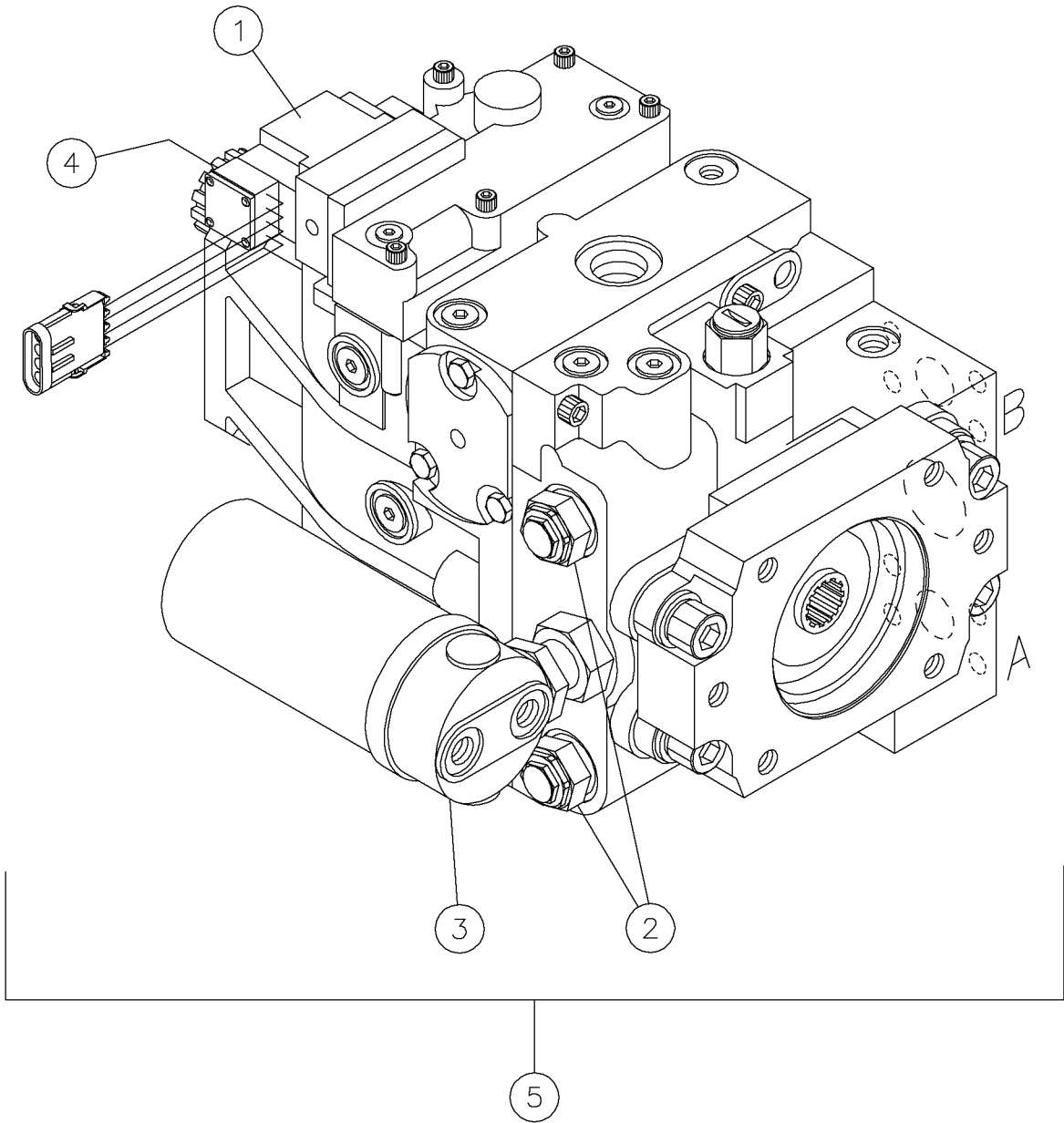
Hyd. Pump-90 Series 55cc Fig 11-30r01



Hyd. Pump-90 Series 55cc Fig 11-30r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Parts List.
1		278884003	EDC KIT W/ 4-WAY PACKARD CONNECTOR	1	Inc. Gasket And Mounting Bolts
		224413005	GASKET-CONTROL	1	
		278884005	PRESSURE CONTROL PILOT VALVE	1	
2		85642007	VALVE-MULTI-FUNCTION	2	Specify Pressure Setting
		85642011	O-RING	1	Outer
		85642051	O-RING	1	Inner
3		85462051	FILTRATION-INTEGRAL SHT FILTER	1	
		81902001	FILTER-OIL	1	
4		98688009	LIP SEAL	1	
		98688011	SEAL-CARRIER	1	
		98688013	O-RING	1	
5		278884001	PUMP - HYD 90 SERIES 55CC	1	Complete

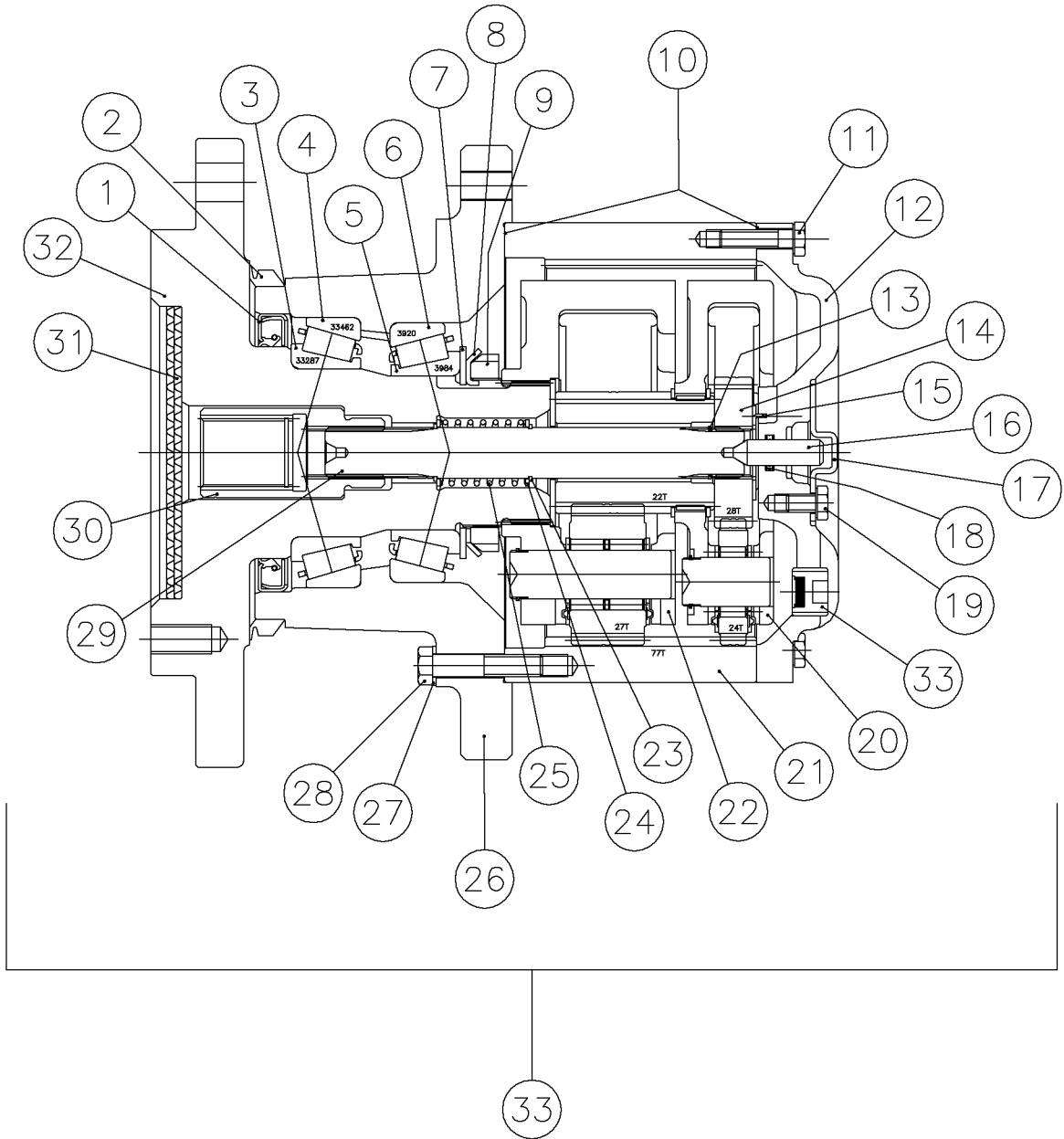
Hyd. Pump-90 Series 55cc Fig 11-30



Hyd. Pump-90 Series 55cc Fig 11-30

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278884003	EDC KIT W/ 4-WAY PACKARD CONNECTOR	1	Inc. Gasket And Mounting Bolts
		224413005	GASKET-CONTROL	1	
		278884005	PRESSURE CONTROL PILOT VALVE	1	
2		85642007	VALVE-MULTI-FUNCTION	2	Specify Pressure Setting
		85642009	O-RING	1	Outer
		85462011	O-RING	1	Inner
3		85462051	FILTRATION-INTEGRAL SHT FILTER	1	
		81902001	FILTER-OIL	1	
4		98688009	LIP SEAL	1	
		98688011	SEAL-CARRIER	1	
		98688013	O-RING	1	
5		278884001	PUMP - HYD 90 SERIES 55CC	1	Complete

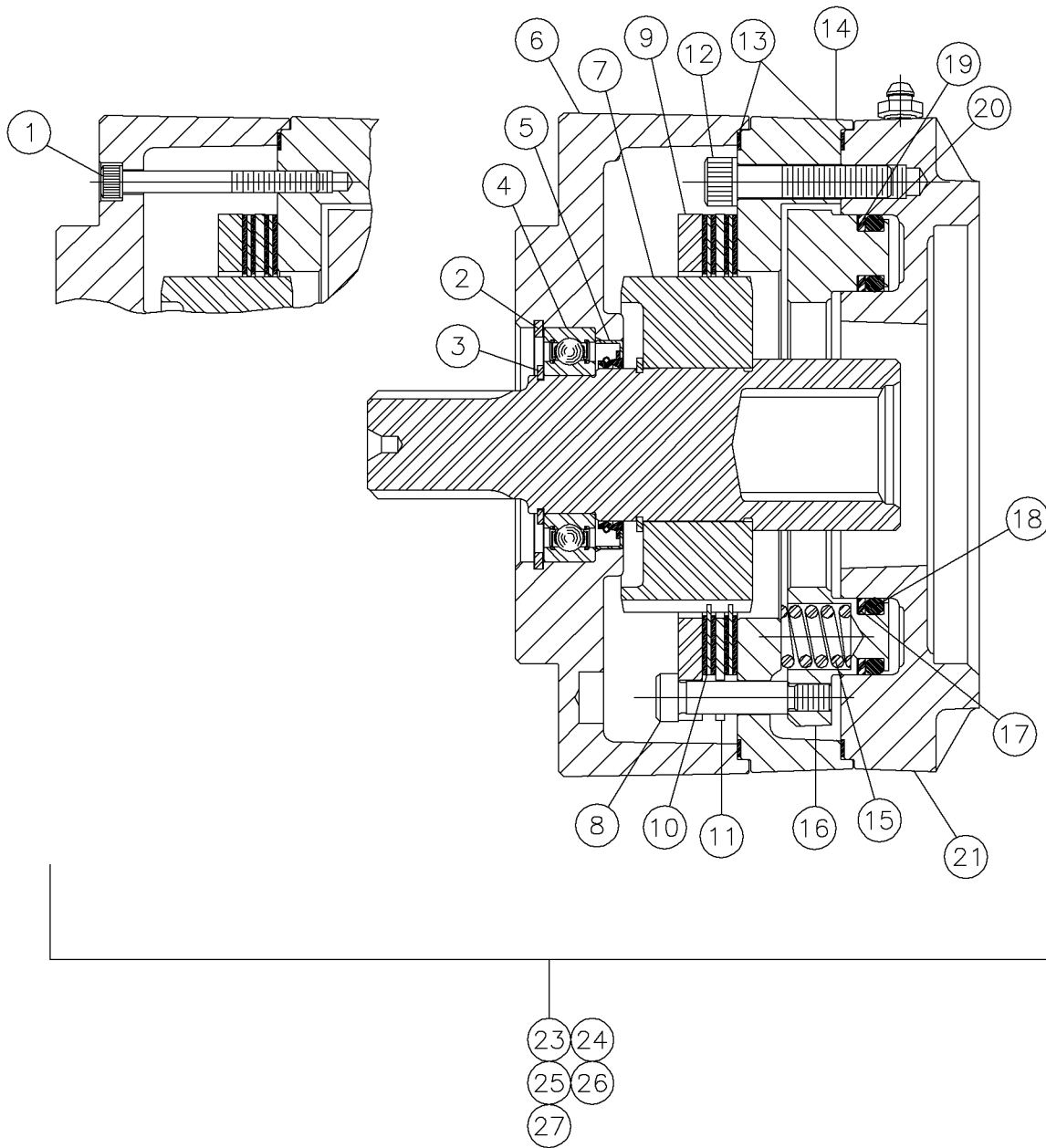
Planetary Gearbox Fig 11-31



Planetary Gearbox Fig 11-31

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		244405057	SEAL - OIL	1	
2		244405055	SEAL - V RING	1	
3		244405053	BEARING - CONE	1	
4		244405051	BEARING - CUP	1	
5		244405049	BEARING - CONE	1	
6		244405047	BEARING - CUP	1	
7		244405045	WASHER - THRUST	1	
8		244405043	WASHER - LOCK	1	
9		244405041	NUT - LOCK	1	
10		244405039	COMPOUND - SEALING	2	
11		221652037	BOLT	8	
12		244405037	COVER	1	
13		244405035	RING - RETAINING	1	
14		244405033	GEAR - PRI SUN	1	
15		244405031	WASHER - THRUST	1	
16		244405029	PLUNGER	1	
17		244405027	COVER - DISENGAGE	1	
18		244405025	O-RING	1	
19		244405023	BOLT - HEX HEAD	2	
20		244405021	ASSEMBLY - PRI CARRIER	1	
21		244405019	GEAR - RING	1	
22		244405017	ASSEMBLY - SEC CARRIER	1	
23		244405015	RING - RETAINING	2	
24		244405013	WASHER - THRUST	2	
25		244405011	SPRING - DISENGAGE	1	
26		244405009	HUB	1	
27		221652013	WASHER	18	
28		221652011	BOLT	18	
29		244405007	SHAFT - IMPUT	1	
30		244405005	COUPLING	1	
31		244405003	SPINDLE	1	
32		221652035	MAGNETIC PLUG	1	
33		244405001	GEARBOX - PLANETARY 7WC14150ZX		Inc. All Items In Figure

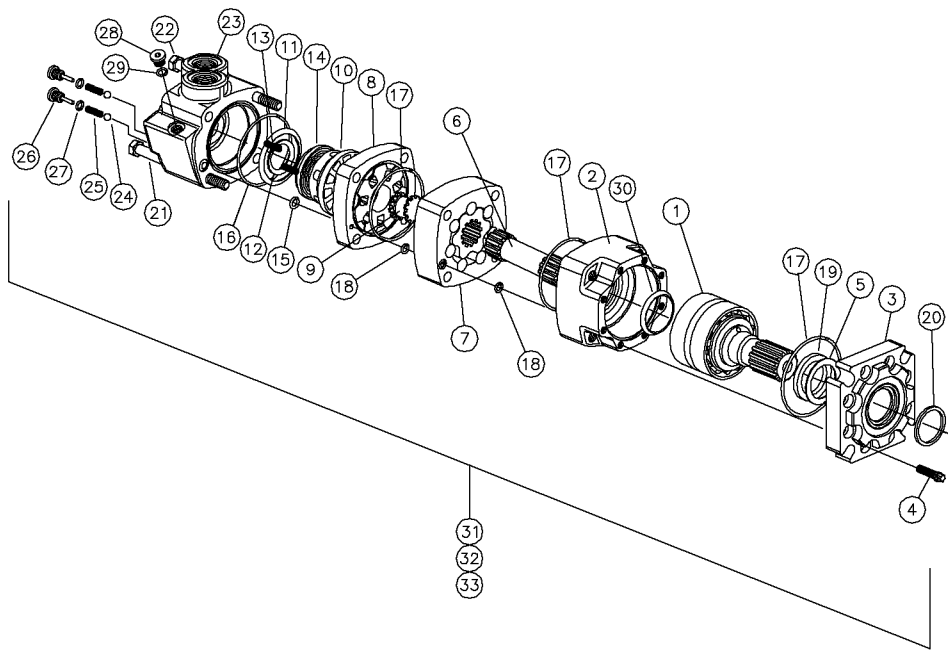
Track Drive Park Brake Fig 11-32



Track Drive Park Brake Fig 11-32

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		NSS	BOLT-SOCKET HEAD	2	
2		NSS	RING-RETAINING	1	
3		NSS	RING-RETAINING	1	
4		NSS	BEARING	1	
5		NSS	SEAL-OIL	1	
6		NSS	COVER	1	
7		NSS	SPINE SHAFT ASSY	4	
8		NSS	BOLT-SOCKET HEAD SHOULDER	4	
9		NSS	DISC-PRIMARY	1	
10		NSS	DISC-ROTOR	5	
11		NSS	DISC-STATOR	4	
12		NSS	SCREW-SOCKET HEAD CAP	4	
13		NSS	GASKET	2	
14		NSS	PLATE-SPRING	1	
15		NSS	SPRING	8	
16		NSS	PISTON	1	
17		NSS	BACK-UP RING	1	
18		NSS	O-RING	1	
19		NSS	BACK-UP RING	1	
20		NSS	O-RING	1	
21		NSS	PLATE-PRESSURE	1	
22		NSS	PIN-DOWEL	2	Not Shown
23		278785003	O-RING & BACK UP RING KIT	1	Inc. Ref. 5, 13, 17-20, And Loctite
24		278785005	STANDARD TORQUE LINING KIT	1	Inc. Ref. 4-5, 13, & Loctite
25		278785007	BEARING KIT	1	Inc. Ref. 13, 15, & Loctite
26		278785009	SPRING KIT	1	Inc. Ref. 9-11, 13 & Loctite
27		278785001	BRAKE-TRACK DRIVE PARK		Inc. All Items In Figure
			NSS-NOT SOLD SEPARATELY		

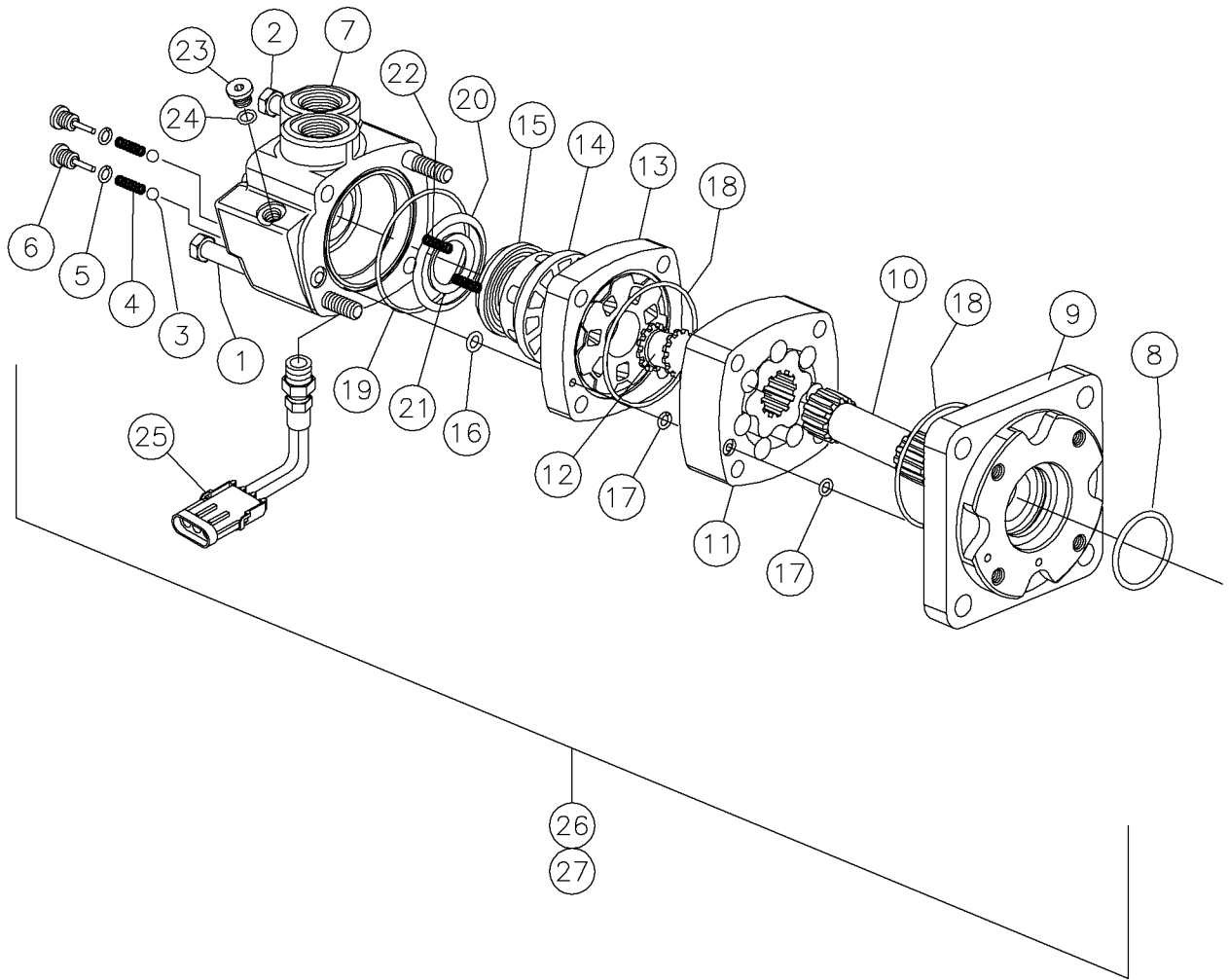
Motor-Track Drive Fig 11-33



Motor-Track Drive Fig 11-33

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		251105003	SHAFT AND BEARING KIT	1	
2		13514011	HOUSING-BEARING 8487	1	
3		13514009	SHAFT & BEARING KIT 8709-1	1	
4		57982013	SCREW	8	
5		775011	WASHER-BACKUP 6943	1	
6		251105005	DRIVE-MAIN	1	
7		NSS	GEROLER	1	
8		600076017	PLATE-VALVE	1	
9		600076019	VALVE	1	
10		600076021	VALVE	1	
11		775041	SEAL-OUTER FACE 6962	1	
12		775043	SEAL-FACE INNER 6961	1	
13		224408017	SPRING	2	
14		53853017	BALANCE RING&PINS 21316CHARLYN	1	
15		4485011	O-RING-250003-903 (90D)	2	
16		775049	SEAL-9022-007	1	
17		13514033	SEAL 3 1/2" (O-RING)	3	
18		215338009	SEAL	2	
19		53853005	SEAL-SHAFT 9057-12 CHAR-LYNN	1	
20		53853003	SEAL-DUST 9031-1 CHAR-LYNN	1	
21		251105007	SCREW - CAP	3	
22		251109009	SCREW-CAP	1	
23		57982023	VALVE-HOUSING ASSY	1	
24		224408035	BALL	2	
25		224408037	SPRING	2	
26		224408039	PLUG/O-RING S/A	2	
27		4485011	O-RING-250003-903 (90D)	2	
28		120872025	HEX PLUG	1	
29		1749025	SEAL-O RING 15007 (90D)	1	
30		600076033	SEAL-SHAFT FACE	1	
31		53853027	REPAIR KIT-MOTOR 61234 CHARLYN	1	Inc. Ref. 11-12, 15-16, 18, 27, & 29
32		53853025	REPAIR KIT-SHAFT 61236 CHARLYN	1	Inc. Ref. 5, 17, 19-20, & 28
33		251105001	MOTOR-7.9 CID 4000 SERIES HYD.	1	Inc. All Items In Figure

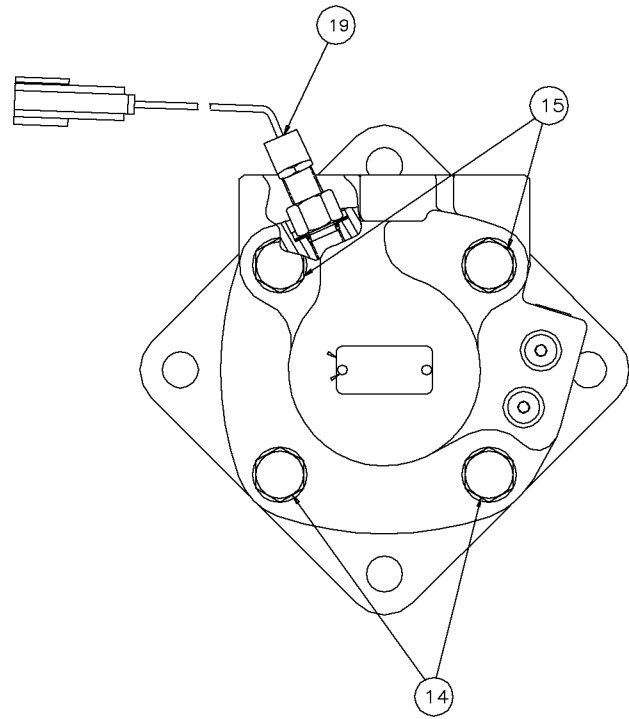
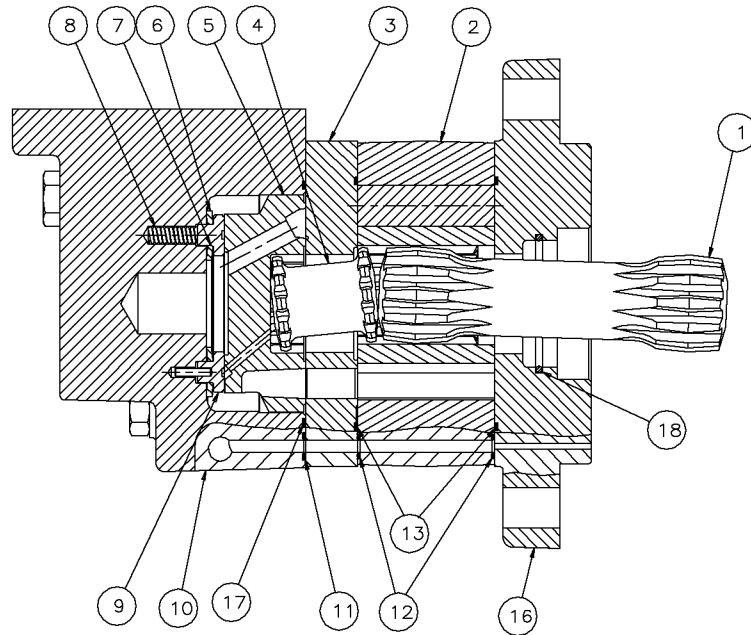
Water Pump Motor-50 GPM FMC Fig 11-34



Water Pump Motor-50 GPM FMC Fig 11-34

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		13514027	BOLT-14386-007	3	
2		13514025	BOLT-14386-009	1	
3		224408035	BALL	2	
4		224408037	SPRING	2	
5		4485011	O-RING-250003-903 (90D)	2	
6		224408039	PLUG/O-RING S/A	2	
7		251106007	HOUSING - VALVE	1	
8		215338003	SEAL	1	
9		251106003	FLANGE - MOUNTING	1	
10		217192005	DRIVE	1	
11		NSS	GEROLER	1	Not Sold Separately
12		600076019	VALVE	1	
13		600076017	PLATE - VALVE	1	
14		600076021	VALVE	1	
15		53853017	BALANCE RING&PINS 21316CHARLYN	1	
16		4485011	O-RING-250003-903 (90D)	2	
17		215338009	SEAL	2	
18		13514033	SEAL-3 1/2 ID	2	
19		775049	SEAL-9022-7	1	
20		775041	SEAL-OUTER FACE 6962	1	
21		775043	SEAL-FACE INNER 6961	1	
22		224408017	SPRING	2	
23		120872025	HEX PLUG	1	
24		1749025	SEAL-O RING 15007 (90D)	1	
25		251106009	SPEED PICKUP - ELECTRONIC	1	
26		251106005	SEAL KIT	1	(INC REF 5, 16, 17, 19-21, 24)
27		251106001	MOTOR -12.5 CID 4000 SERIES HY	1	(INC ALL ITEMS IN THIS FIGURE)

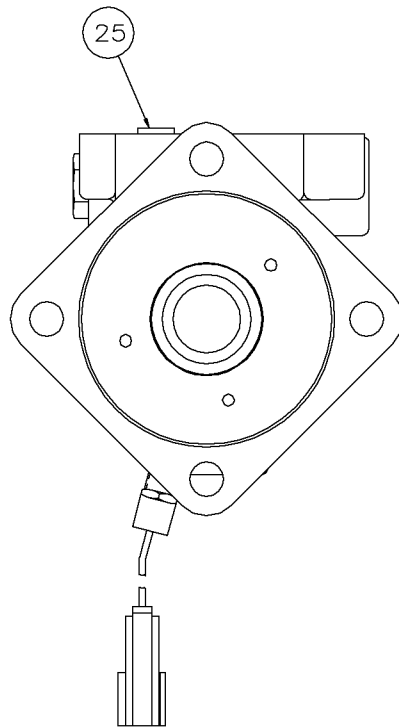
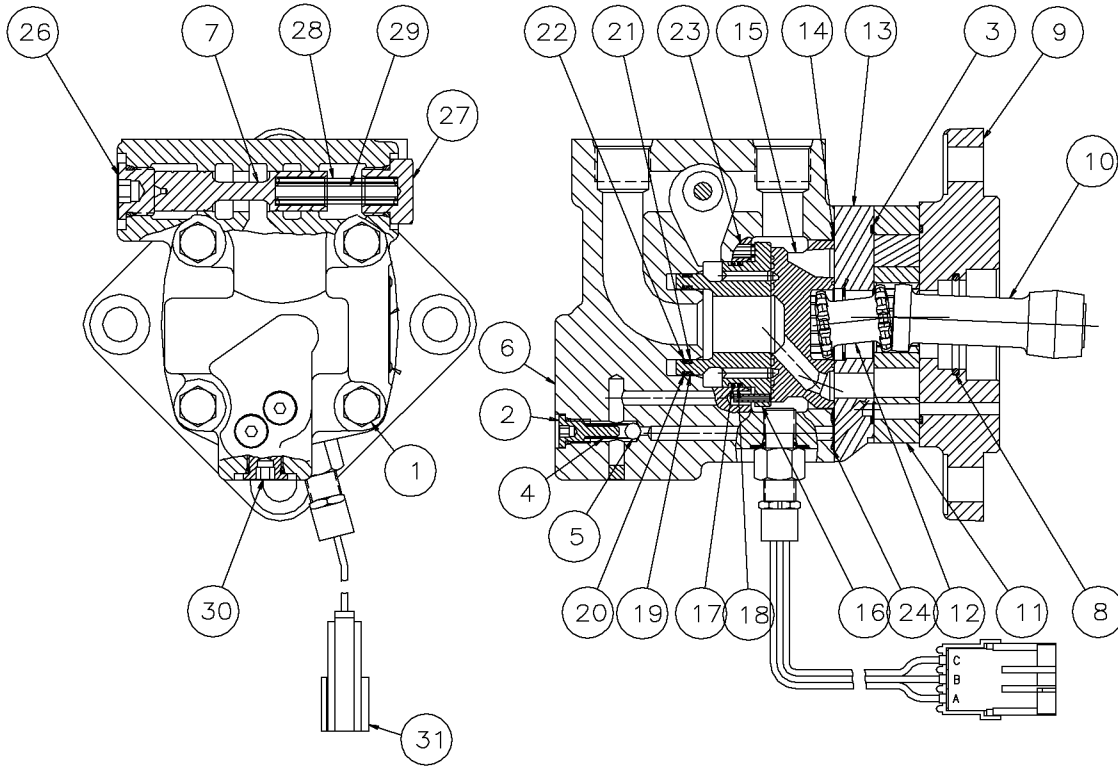
Water Pump Motor-50 GPM Apex Fig 11-35



Water Pump Motor-50 GPM Apex Fig 11-35

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296285070	DRIVE	1	
2		296285071	GEROLER ASSY	1	
3		296285072	PLATE-VALVE	1	
4		215338013	DRIVE-VALVE	1	
5		296285073	VALVE	1	
6		776045	SEAL-FACE OUTER 6992	1	
7		296285074	SEAL-INNER	1	
8		296285075	SPRING - COMPRESSION	3	
9		209137015	BALANCE PLATE ASSEMBLY	1	
10		296285076	HOUSING VALVE	1	
11		770041	SEAL-O RING 9022-12	1	
12		215338009	SEAL	2	
13		209137007	SEAL-3 3/4"ID - (O-RING)	2	
14		255509033	BOLT-5.45	2	
15		255509031	BOLT-6.79	2	
16		296285077	FLANGE-MOUNTING	1	
17		752005	SEAL-O RING 15062	1	
18		215338003	SEAL	1	
19		251106009	SPEED PICKUP - ELECTRONIC	1	
		296284063	MOTOR-BEARINGLESS 19 CID		Inc. All Items In Figure
		296285078	COMPLETE SEAL KIT	1	
		296285079	REAR SEAL KIT	1	

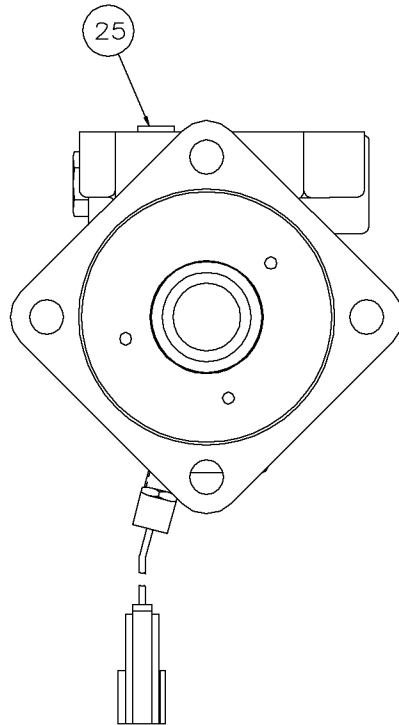
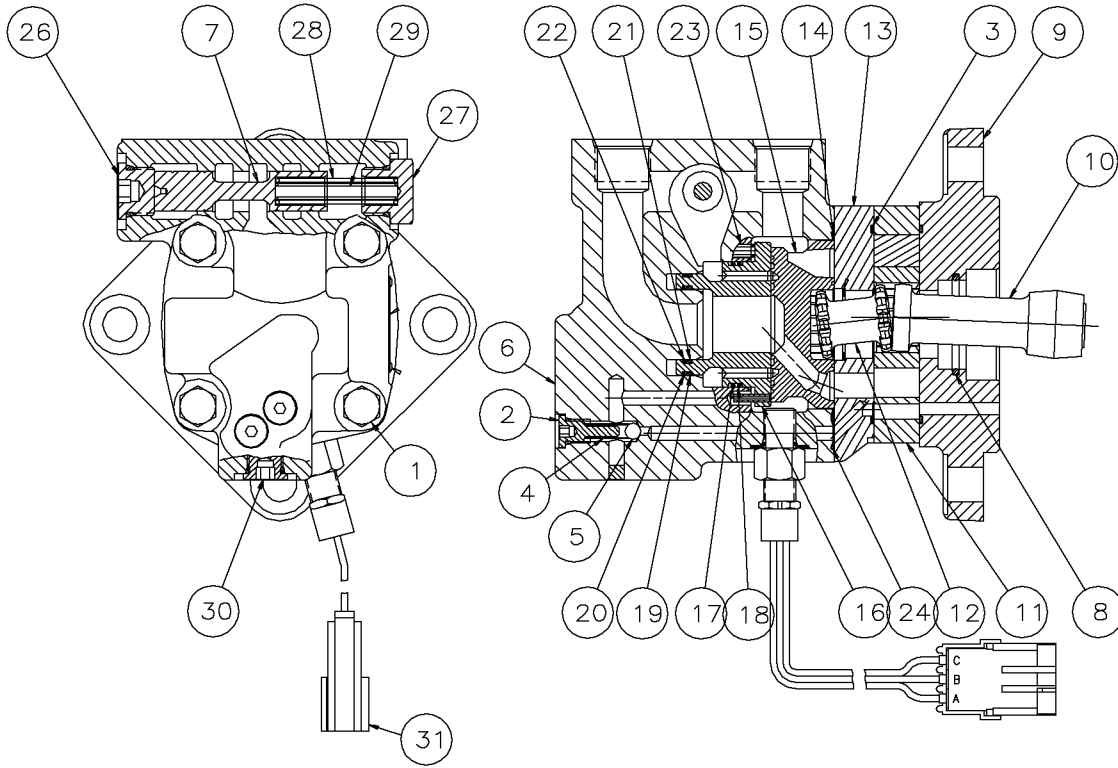
Water Pump Motor W/Sensor-70 GPM Apex Fig 11-36r01



Water Pump Motor W/Sensor-70 GPM Apex Fig 11-36r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	January, 2006		Update In Parts List.
1		771017	BOLT	4	
2		4485015	CHECKING PLUG ASSY.	2	
3	*	4485011	O-RING-250003-903 (90D)	2	
4	*	770007	SEAL-O RING 9022-6	2	
5	*	770051	SPRING	2	
6	*	275996003	HOUSING	1	
7		201666043	SPOOL-CONTROL	1	
8		221557007	SEAL-O-RING	1	
9		221557009	FLANGE-MOUNTING (BEARING LESS)	1	
10		770081	DRIVE	1	
11		NSS	GEROLER ASSY.	1	
12		774011	DRIVE-VALVE	1	
13	*	275996002	PLATE - VALVE	1	
14		201666009	SEAL	1	
15		220749003	VALVE	1	
16		201666013	RING ASSY.-BALANCING	1	
		201666015	PIN-SPRING	2	
17		201666023	O-RING	1	
18		201666021	RING-BACKUP	2	
19		201666025	O-RING	1	
20		201666027	RING-BACKUP	1	
21		201666017	O-RING	1	
22		201666019	RING-BACKUP	1	
23		770039	SPRING	1	
24		1749025	SEAL-O-RING	1	
25		4485021	PLUG ASSY.	1	
		4485023	O-RING	1	
26		66845001	PLUG ASSY.	1	
		4343031	O-RING	1	
27		201666035	PLUG-ASSY.	1	
		4343031	O-RING	1	
28		201666041	SPRING-COMPRESSION	1	
29		201666039	SPRING-COMPRESSION	1	
30	*	500659021	SAE PLUG	1	
31	*	251106009	SPEED PICKUP - ELECTRONIC	1	
		275996001	MOTOR - HYD. (EATON) 2 SP.		Inc Ref No's 1-29
		221557003	REPAIR KIT		Inc Ref No's 3, 8, 14, 17-22 & 25-27

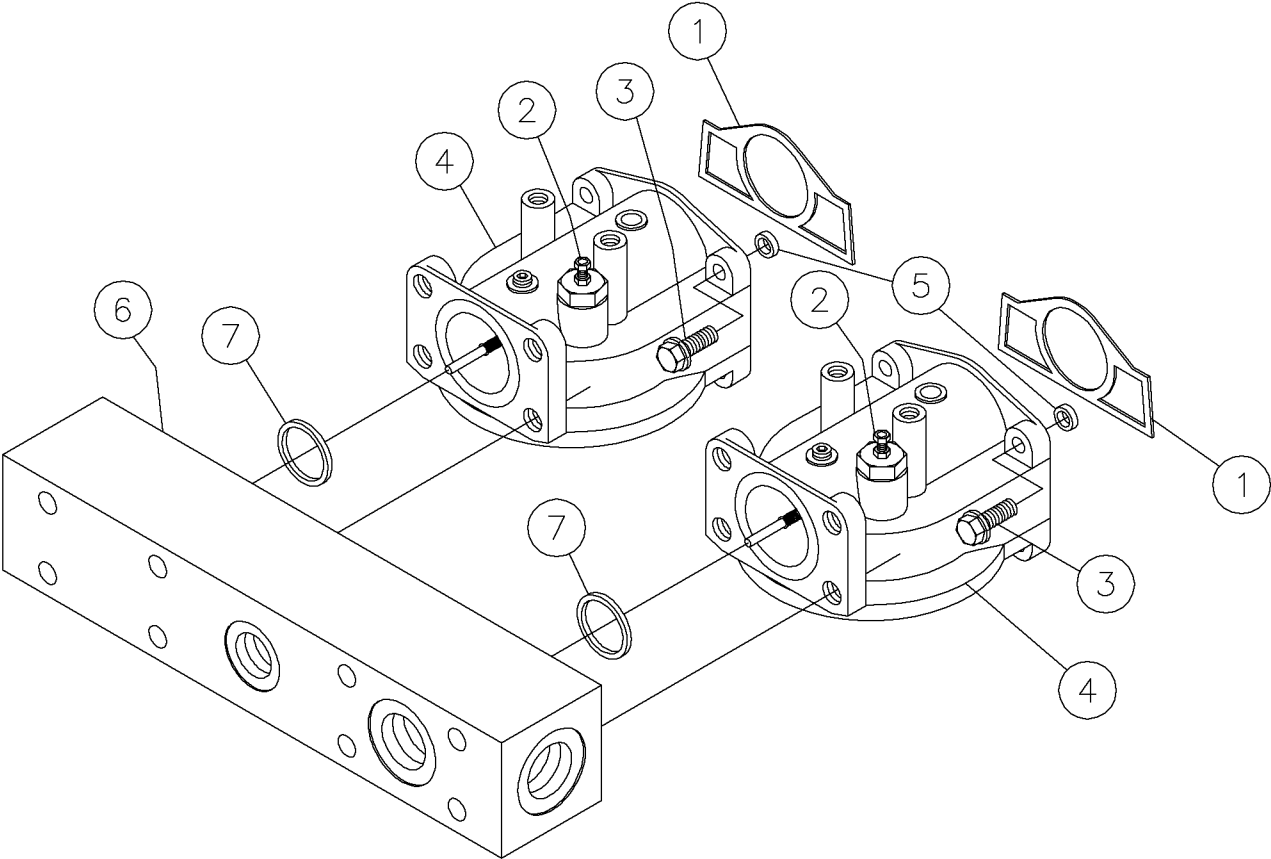
Water Pump Motor W/Sensor-70 GPM Apex Fig 11-36



Water Pump Motor W/Sensor-70 GPM Apex Fig 11-36

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		771017	BOLT	4	
2		4485015	CHECKING PLUG ASSY.	2	
3	*	4485011	O-RING-250003-903 (90D)	2	
4	*	770007	SEAL-O RING 9022-6	2	
5	*	770051	SPRING	2	
6	*	275996003	HOUSING	1	
7		20166043	SPOOL-CONTROL	1	
8		221557007	SEAL-O-RING	1	
9		221557009	FLANGE-MOUNTING (BEARING LESS)	1	
10		770081	DRIVE	1	
11		NSS	GEROLER ASSY.	1	
12		774011	DRIVE-VALVE	1	
13	*	275996002	PLATE - VALVE	1	
14		201666009	SEAL	1	
15		220749003	VALVE	1	
16		201666013	RING ASSY.-BALANCING	1	
		201666015	PIN-SPRING	2	
17		201666023	O-RING	1	
18		201666021	RING-BACKUP	2	
19		201666025	O-RING	1	
20		201666027	RING-BACKUP	1	
21		201666017	O-RING	1	
22		201666019	RING-BACKUP	1	
23		770039	SPRING	1	
24		1749025	SEAL-O-RING	1	
25		4485021	PLUG ASSY.	1	
		4485023	O-RING	1	
26		66845001	PLUG ASSY.	1	
		4343031	O-RING	1	
27		201666035	PLUG-ASSY.	1	
		4343031	O-RING	1	
28		201666041	SPRING-COMPRESSION	1	
29		201666039	SPRING-COMPRESSION	1	
30	*	500659021	SAE PLUG	1	
31	*	251106009	SPEED PICKUP - ELECTRONIC	1	
		275996001	MOTOR - HYD. (EATON) 2 SP.		Inc Ref No's 1-29
		221557003	REPAIR KIT		Inc Ref No's 3, 8, 14, 17-22 & 25-27

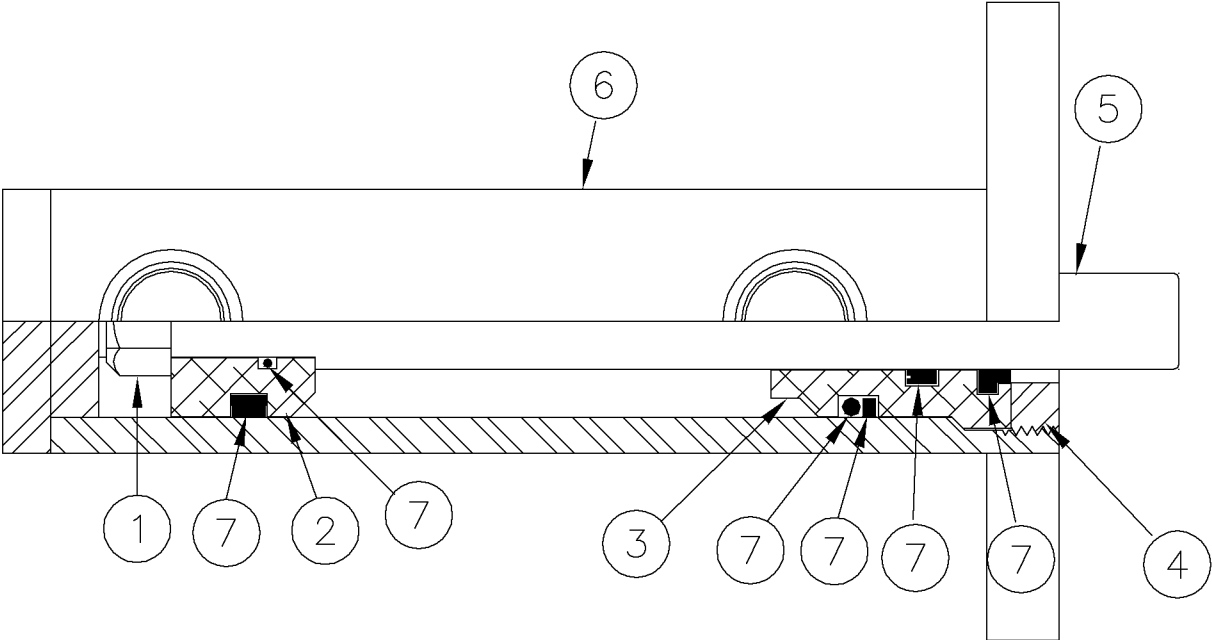
Filter Head Fig 11-37



Filter Head Fig 11-37

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		251140003	GASKET	2	
2		251140005	SWITCH - FILTER RESTRICTION	2	
3		4474010	BOLT-5/16-18X1 FLG.WHIZ PLATED	8	
4		251140001	HEAD - FILTER	2	
5		278858003	SEAL- FLANGE (FLUOROCARBON)	8	
6		251454001	BLOCK - MANIFOLD	1	
7		72895001	O RING-SQ. #16 FLANGE	2	
		296273660	ASSEMBLY - FILTER HEAD		Inc. All Items In Figure

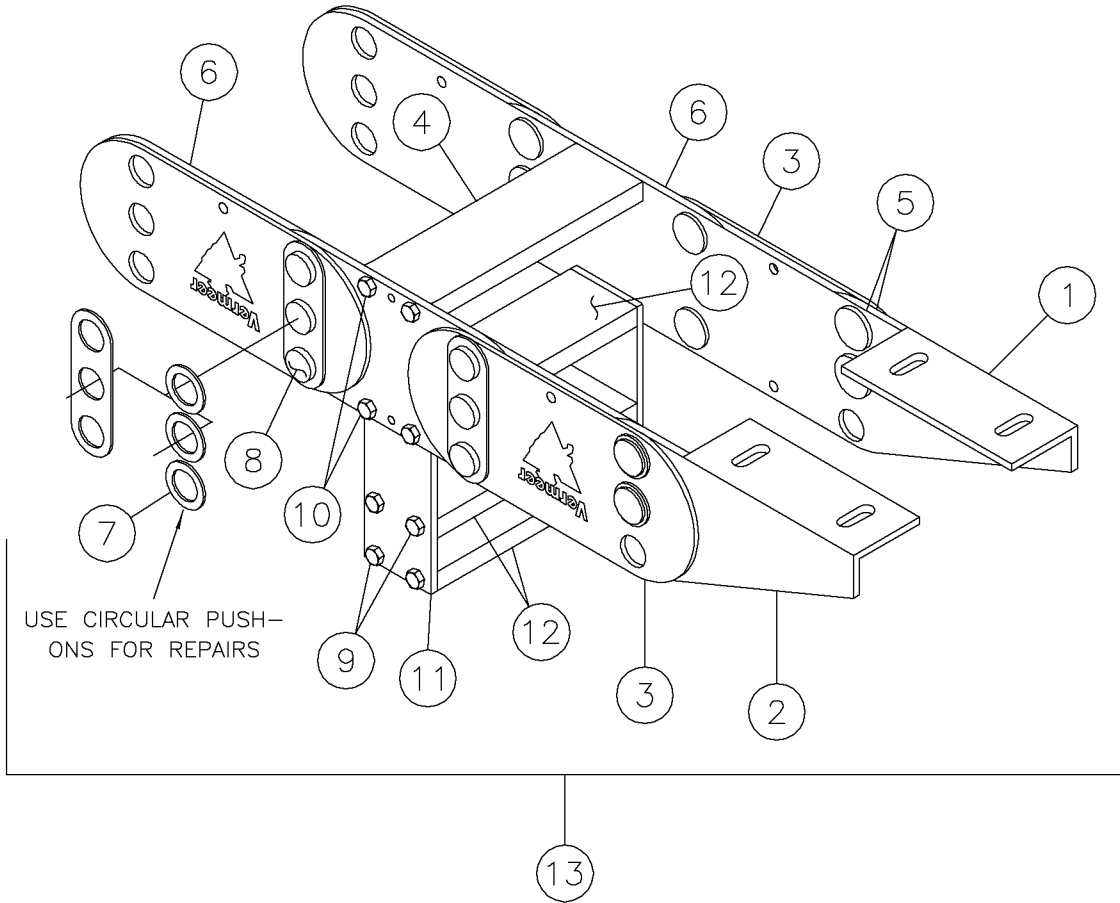
Grease Pump Fig 11-38



Grease Pump Fig 11-38

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		236113003	NUT	1	
2		296251772	PISTON	1	
3		234359007	HEAD	1	
4		234359013	COLLAR	1	
5		296265525	ROD-CYLINDER	1	
6		296265524	BODY-CYLINDER	1	
7		296251775	SEAL KIT	1	
		294899001	CYLINDER - HYD 1 X 2-3/8		Inc. All Items In Figure

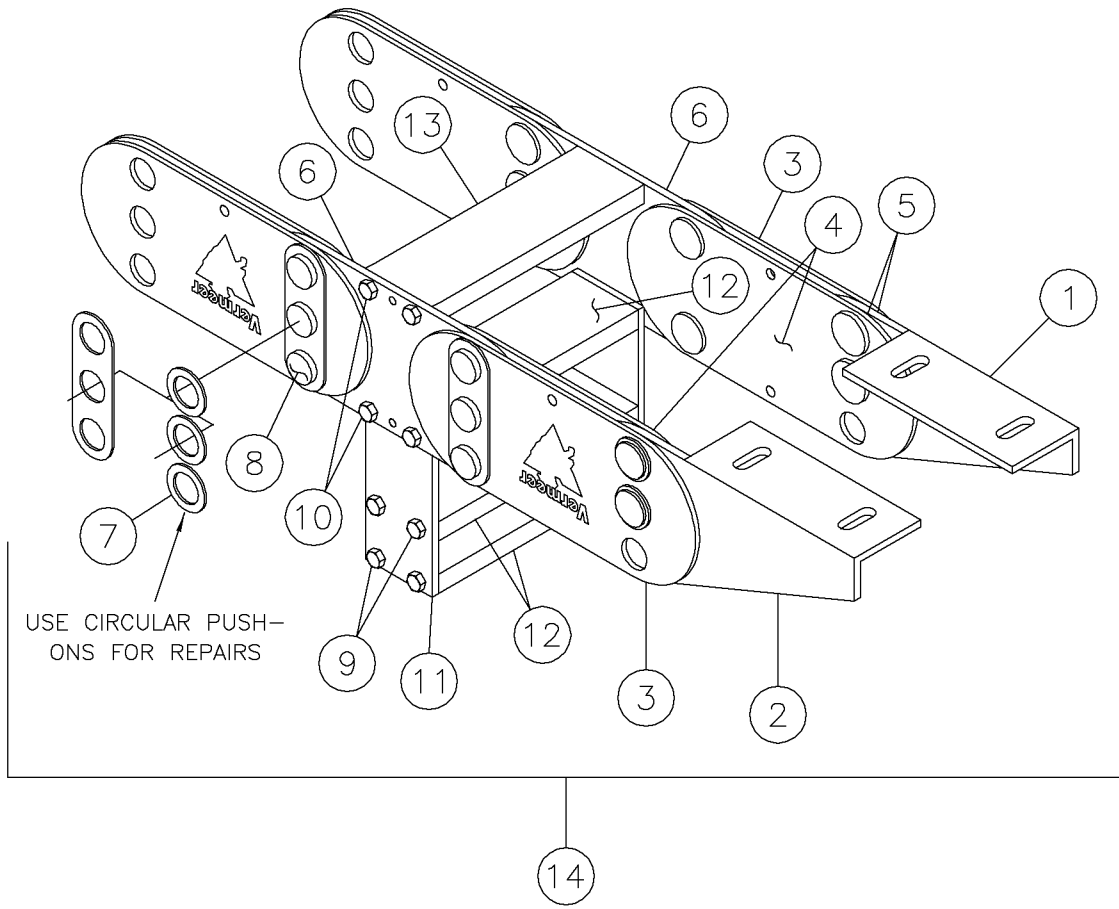
Hose Track - (10') Fig 11-38x01



Hose Track - (10') Fig 11-38x01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Illustration & Parts List.
1		296285084	POWER FRAME	1	
2		296285085	CRANKCASE COVER	1	
3		220741009	3/8-16X5/8 HHCS	8	
4		224408079	GASKET-CRANKCASE COVER	1	
5		239383013	PLUG-1/2 NPT SQ HEAD	2	
6		224408081	OIL LEVEL DIPSTICK	1	
7		224408083	O-RING	1	
8		239383009	PLUG-1/4 NPT SOCKET HEAD PLUG	3	
9		277781019	FILTER - BREATHER	1	
10		296285086	3/4" PIPE PLUG	1	
11		224408085	CONNECTING ROD	3	
12		224408087	WRIST PIN BUSHING	1	
13		296285087	3/8" NC X 2 1/2" SOCKET HEAD CAP SCREW	2	
14		296285088	3/8" REG. SPRING LOCKWASHER	2	
15		283701001	BEARING - CRANK PIN 2 HALVES SC65	3	
16		224408091	WRIST PIN	3	
17		224408093	CROSSHEAD	3	
18		224408095	WIPER BOX	3	
19		296285089	1/2" X 1 1/2 LONG HEAD CAP SCREW	6	
20		224408099	POLYPAK RING	3	
21		224408101	OIL SEAL-WIPER BOX	3	
22		224408103	O-RING-WIPER BOX	3	

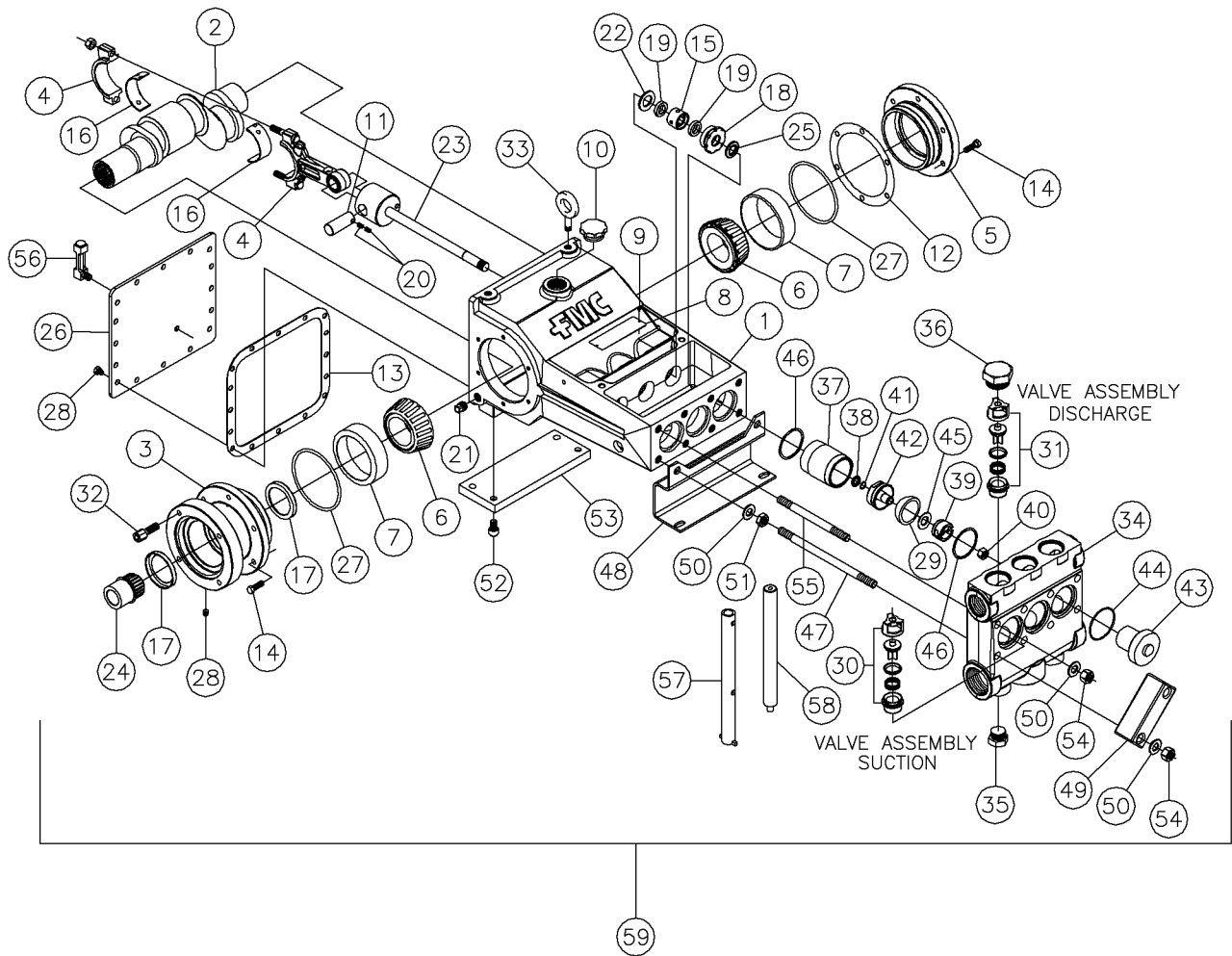
Hose Track - (15') Fig 11-39



Hose Track - (15') Fig 11-39

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		234256003	PT45E MOUNTING BRACKET ASSY (L)	2	
2		234256005	PT45E MOUNTING BRACKET ASSY(R)	2	
3		234256007	PT45E OUTER LINK W/VERMEERLOGO	34	
4		234256009	PT45E OUTER LINK	34	
5		234256011	PT45E ANTI-FRICTION DISC	138	
6		276280003	PT45E INNER LINK R13.39	68	
7		234256015	PT45E CIRCULAR PUSH-ON	198	
8		234256017	PT45E HINGE PIN-PUSH ON FASTNR	198	
9		215252017	SCREW-WHIZ LOCK	204	
10		276280005	SCREW - WHIZ LOCK 10-32 X .62	68	
11		276280007	BRACKET - PT45E CARRIER	34	
12		276280009	PT45E ALUM CHANNEL 5.375"	51	
13		276280011	PT45E ALUM CHANNEL 5.825"	17	
		276280001	TRACK - HOSE CARRIER 15'		Inc. All Items In Figure

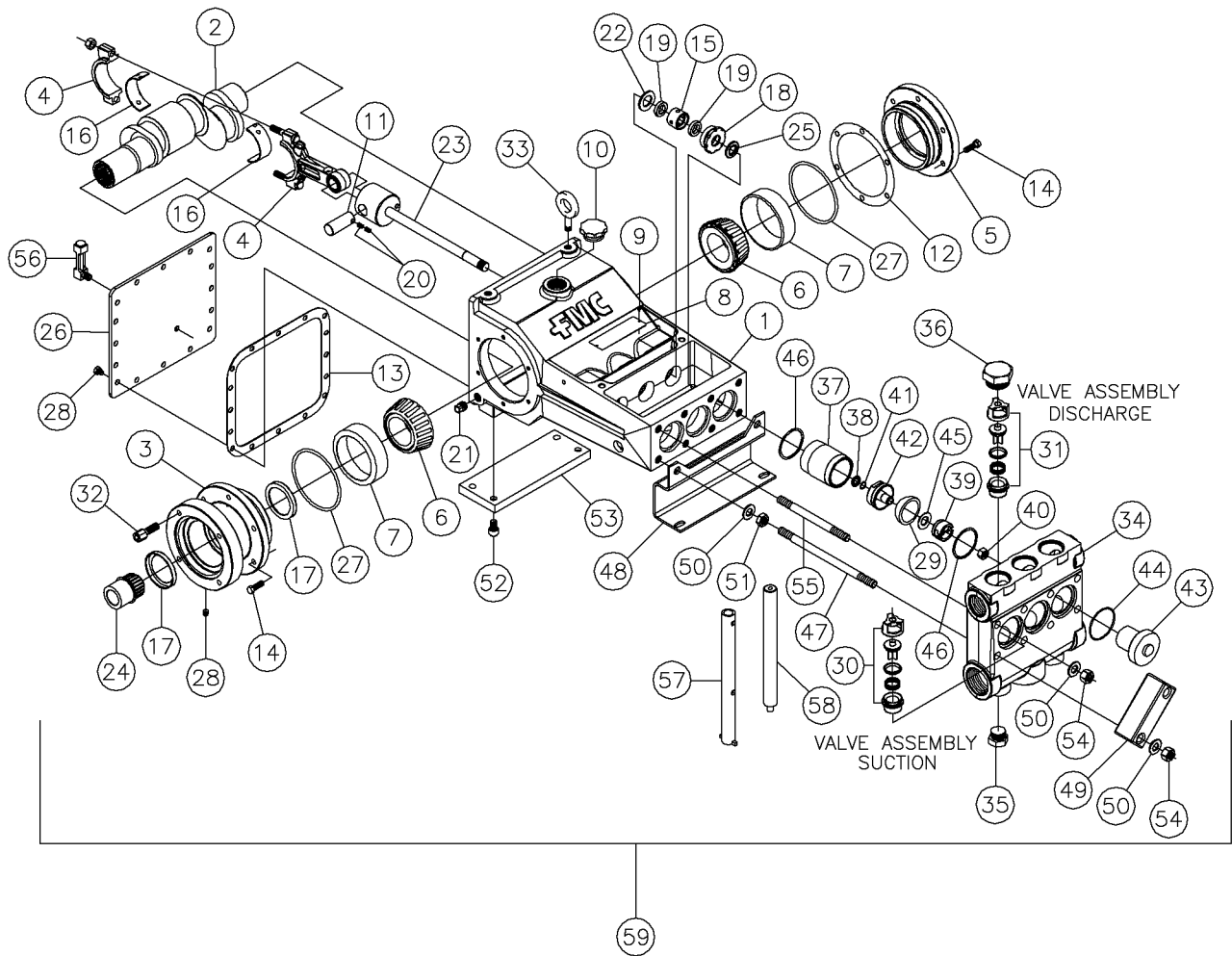
Water Pump-50 GPM FMC Fig 11-40



Water Pump-50 GPM FMC Fig 11-40

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278882002	PUMP CASE	1	
2		278882003	CRANK SHAFT	1	
3		278882004	BEARING HOUSING	1	
4		278882005	CONNECTING ROD	3	
5		278882006	BEARING HOUSING	1	
6		278882008	BEARING CONE	2	
7		278882009	BEARING CUP	2	
8		NA	NAME PLATE	1	
9		248507009	SCREW - #4 X 3/16" LG SELF - TAPPING	2	
10		276521025	OIL CAP	1	
11		278882010	WRIST PIN	3	
12		278882012	SHIM	A/R	
13		278882013	GASKET COVER	1	
14		228460003	CAPSCREW-3/8-16X1 1/4 HEX HD	12	
15		278882015	SLEEVE	3	
16		278882016	SHELL BEARING (PAIR)	6	
17		278882017	SEAL	2	
18		278882018	ROD SEAL RETAINER	3	
19		904540035	OIL SEAL	6	
20		278882019	SET SCREW	6	
21		276521047	PLUG -1/2" PIPE, MAG	2	
22		278882020	WASHER PACKING	3	
23		278882021	CROSS HEAD ASSEMBLY	3	
24		278882022	CROSS OVER SUB	1	
25		904540049	WASHER-BARRIER	3	
26		278882037	BACK COVER	1	
27		278882007	O-RING - UNIFORM #160	2	
28		278882039	CAPSCREW - 3/8-16 X 3/4 LG HEX HEAD	16	
29		278882024	PISTON CUP	3	
30		225946033	VALVE ASSEMBLY-SUCTION	3	
			CONTINUE ON NEXT PAGE		

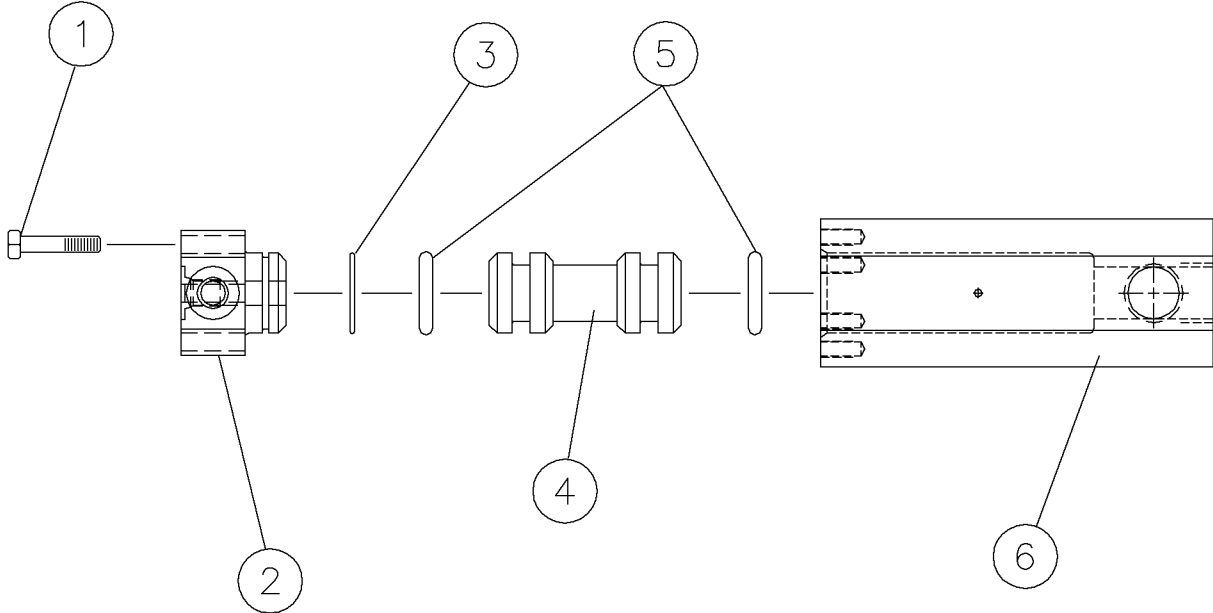
Water Pump-50 GPM FMC (Continued) Fig 11-40



Water Pump-50 GPM FMC (Continued) Fig 11-40

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
31		225946025	VALVE ASSEMBLY-DISCHARGE	3	
32		278882027	SOCKET HEAD CAP SCREW	4	
33		278882036	EYE BOLT - 1/2 X 1-1/2	4	
34		240141005	FLUID CYLINDER	1	
35		225946017	PLUG-1 3/16-12 UN-2A	3	
36		225946011	PLUG-1 7/8-12 UN-2A	3	
37		278882028	PISTON CYLINDER	3	
38		240141009	SEAL HOLDER	3	
39		240141011	PISTON NUT	3	
40		228460023	HEX NUT-SPECIAL BRASS	2	
41		228460029	O-RING	3	
42		278882029	PISTON HOLDER	3	
43		228460027	CYLINDER COVER	3	
44		225946021	O-RING	3	
45		240141015	PISTON WASHER	3	
46		904540105	GASKET	6	
47		278882030	STUD	6	
48		278882031	FRONT FOOT	1	
49		904540059	CLAMP-COVER	3	
50		904540061	WASHER-5/8	10	
51		278882033	JAM NUT	2	
52		278882034	SOCKET HEAD CAP SCREW	2	
53		278882035	REAR FOOT	1	
54		904540063	NUT- 5/8-11	8	
55		904540057	STUD-SHORT	2	
56		278882032	LIQUID LEVEL GAUGE	1	
57		240141019	TOOL - PISTON CUP REMOVAL	1	
58		240141017	TOOL - VALVE INSTALLATION	1	
59		278951001	PUMP - WATER		Inc. All Items In Figure

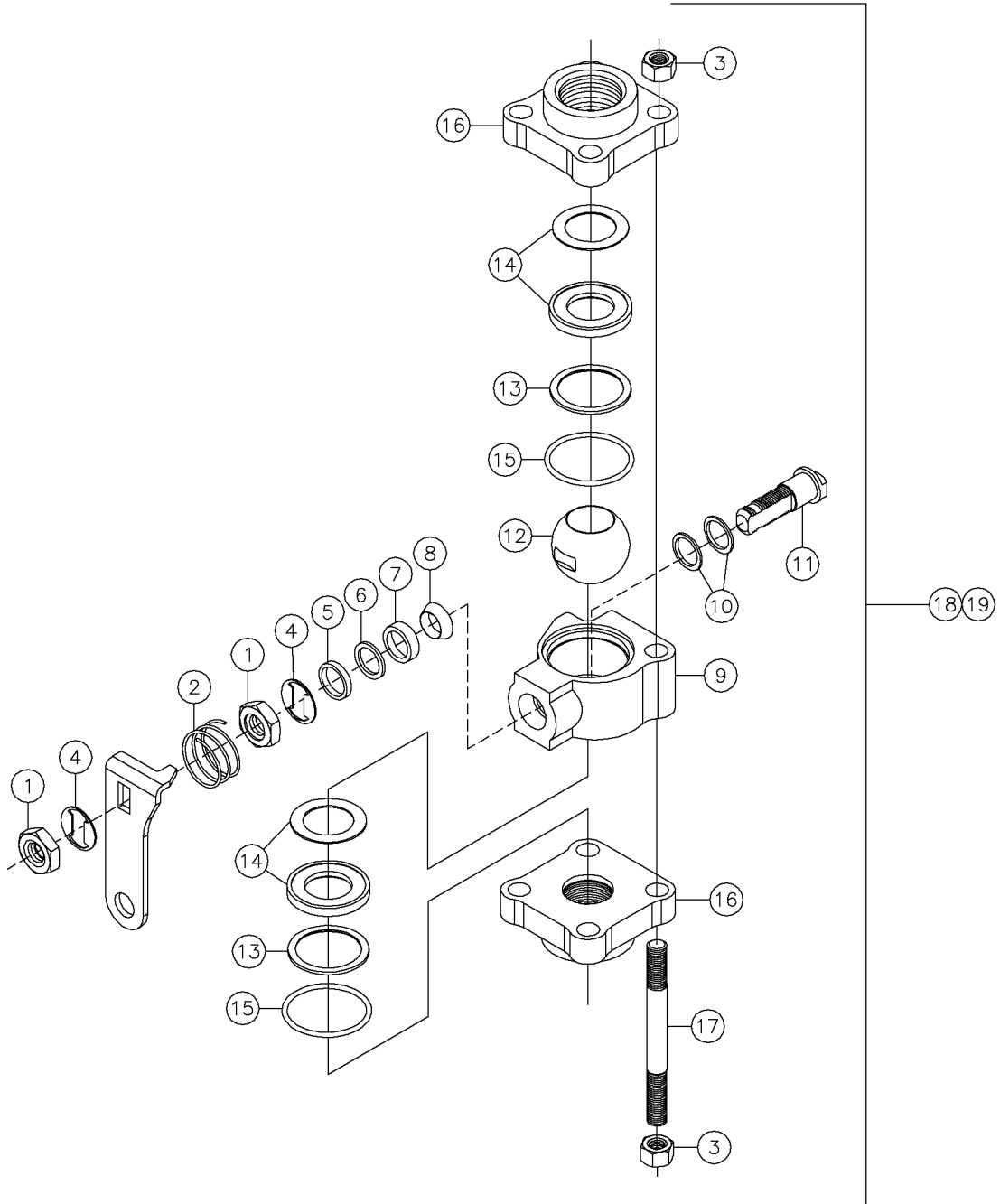
Water Pressure Dumbbell Piston Fig 11-41



Water Pressure Dumbell Piston Fig 11-41

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		250008001	BOLT 1/4-20 X 1 1/4 ZINC PL	6	
2		238138001	ENDCAP-MANIFOLD OUTLET FITTING	1	
3		234818001	O-RING 1.254OD X1.114ID-.070	1	
4		296265885	PISTON - INSERT MANIFOLD	1	
5		250612001	O-RING - 316	2	
6		296265884	FITTING - WATER MANIFOLD PRESSURE	1	
		296265854	WATER PRESSURE DUMBELL PISTON MAN.ASSY		Inc. All Items In Figure

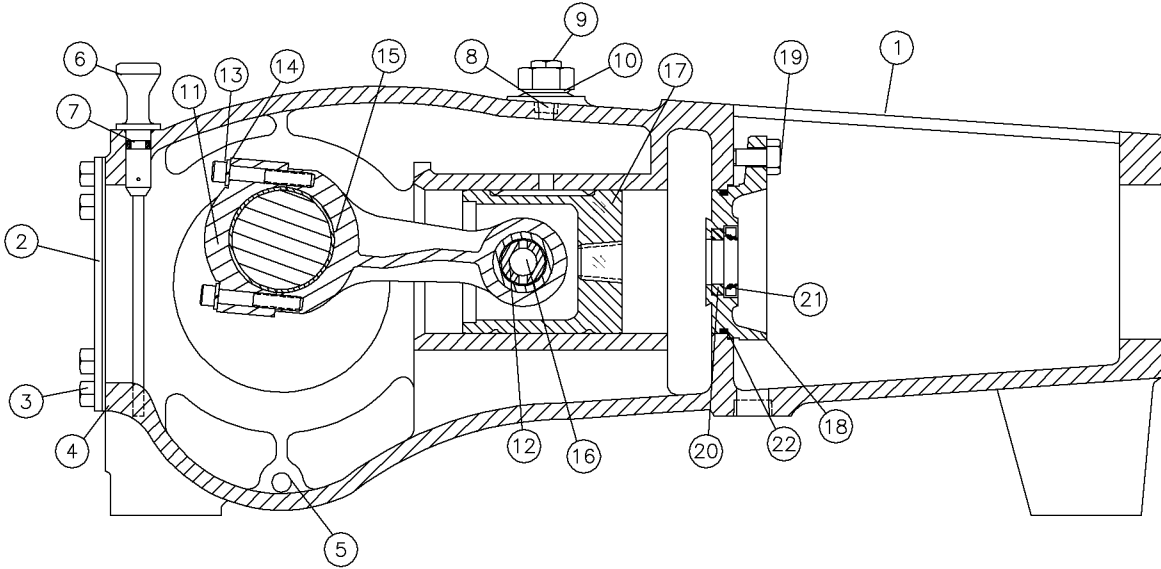
Water Ball Valve Fig 11-42



Water Ball Valve Fig 11-42

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		245079003	STEM NUT	2	
2		245079005	GROUNDING SPRING	1	
3		245079037	BODY NUT	8	
4		245079009	STEM SPRING	2	
5		278003003	GLAND	1	
6		245079013	PACKING SUPPORT	1	
7		245079015	TOP PACKING	1	
8		245079017	BOTTOM PACKING	1	
9		278003004	BODY CENTER	1	
10		278003005	BEARING - STEM	2	
11		245079023	STEM	1	
12		245079025	BALL	1	
13		245079027	SUPPORT RING	2	
14		245079029	SEAT/SEAT SPRING	2	
15		245079031	O-RING	2	
16		278003006	FLANGE	2	
17		245079035	BODY STUD	4	
18		245079039	KIT-MAINTENANCE	1	Inc. Ref. 4-6, 10 & 15
19		278003001	VALVE - 1" 1500 PSI BRASS BALL	1	Inc. All Items In Figure

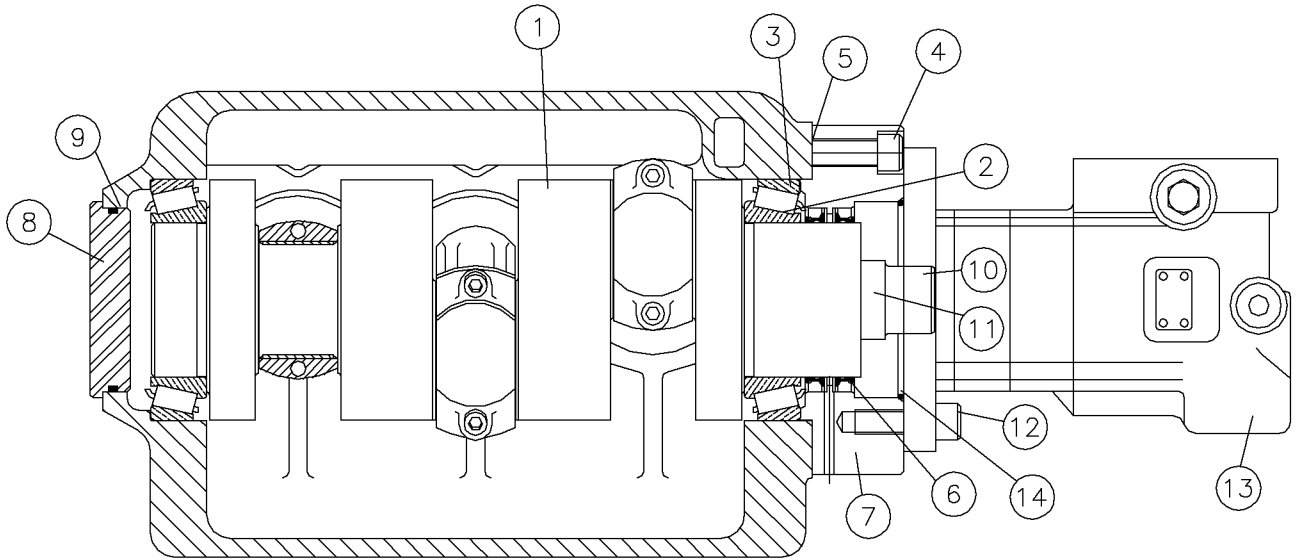
Water Pump-Crankshaft-50 GPM Aplex Fig 11-43



Water Pump-Crankshaft-50 GPM Aplex Fig 11-43

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		228098011	CRANKSHAFT	1	
2		228098013	CONE	2	
3		228098015	CUP	2	
4		296272949	SCREW -1/2"NC X 2" LONG HEX HEAD CAP	6	
5		220741113	SHIM SET	1	
6		228098025	OIL SEAL	2	
7		228098019	BEARING RETAINER/MOTOR ADAPTER	1	
8		277781025	PLUG - CRANK SHAFT	1	
9		220741121	O-RING	1	
10		228098027	SPLINED COUPLER -SC45 PUMP	1	
11		224904009	SPACER-HARDENED SPLINE ADAPTER	1	
12		239383023	CAP SCREW-1/2 NC-1 1/4 HEX HD	4	
13		275996001	MOTOR - HYD. (EATON) 2 SP.	1	
14		220741125	O-RING NITRILE	1	
		296269559	APLEX 50 GPM MUD PUMP W/CHARLYN HYD/DR M		Inc. All Items in Figure

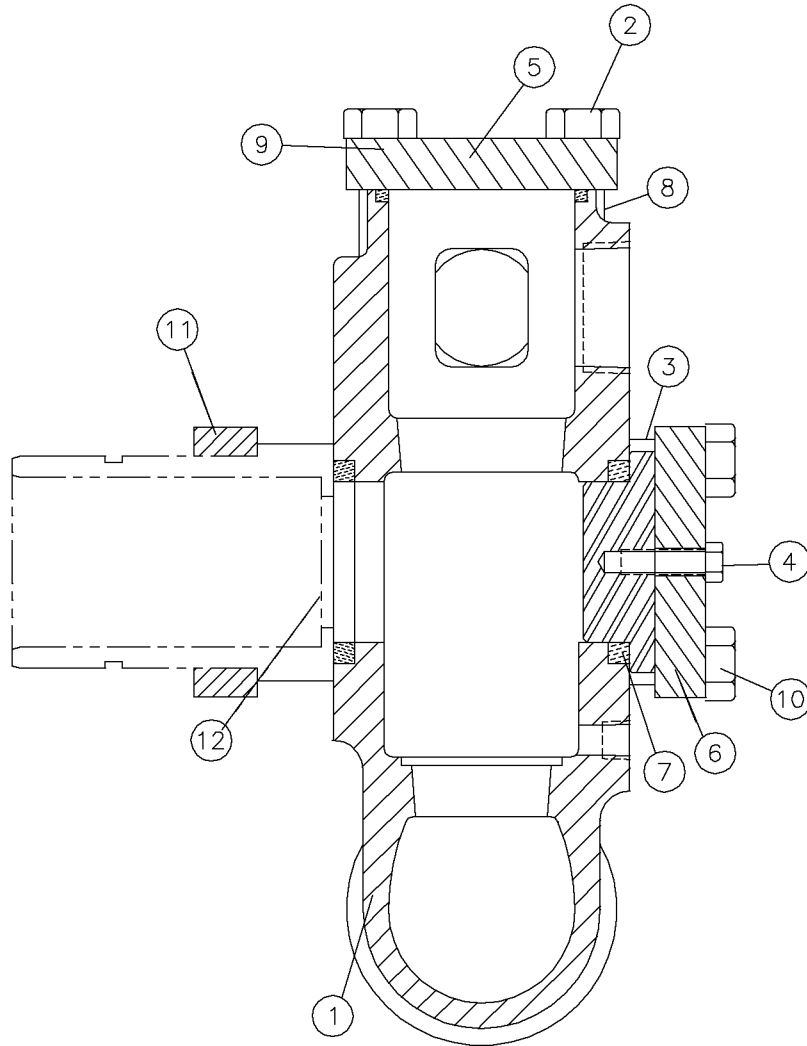
Water Pump-Power Frame-50 GPM Apex Fig 11-44



Water Pump-Power Frame-50 GPM Aplex Fig 11-44

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272942	POWER FRAME	1	
2		220741007	CRANKCASE COVER	1	
3		220741009	3/8-16X5/8 HHCS	8	
4		220741011	GASKET-CRANKCASE COVER	1	
5		296272943	PIPE PLUG 3/8" SQUARE HEAD	2	
6		220741021	OIL LEVEL DIPSTICK	1	
7		220741023	O-RING 2-023	1	
8		296272944	PIPE PLUG 1/8" SOCKET HEAD	3	
9		277781019	FILTER - BREATHER	1	
10		220741017	1/2" NPT PLUG-SOCKET HEAD	1	
11		220741025	CONNECTING ROD	3	Inc. Ref. No's 12, 13, & 14
12		296272945	BUSHING-WRIST PIN	1	
13		220741029	5/16-18X2" SOCKET HD CAP SCREW	2	
14		220741031	5/16" LOCKWASHER	2	
15		220741033	CRANK PIN BEARING HALF	3	
16		220741035	WRIST PIN	3	
17		220741037	CROSSHEAD	3	
18		220741039	WIPER BOX	3	
19		296272946	SCREW-3/8"X1 1/4" HEX HEAD	6	
20		220741045	POLYPAK RING	3	
21		220741047	OIL SEAL	3	
22		220741049	O-RING	3	
		296269559	APLEX 50 GPM MUD PUMP W/CHARLYN HYD/DR M		Inc. All Items in Figure

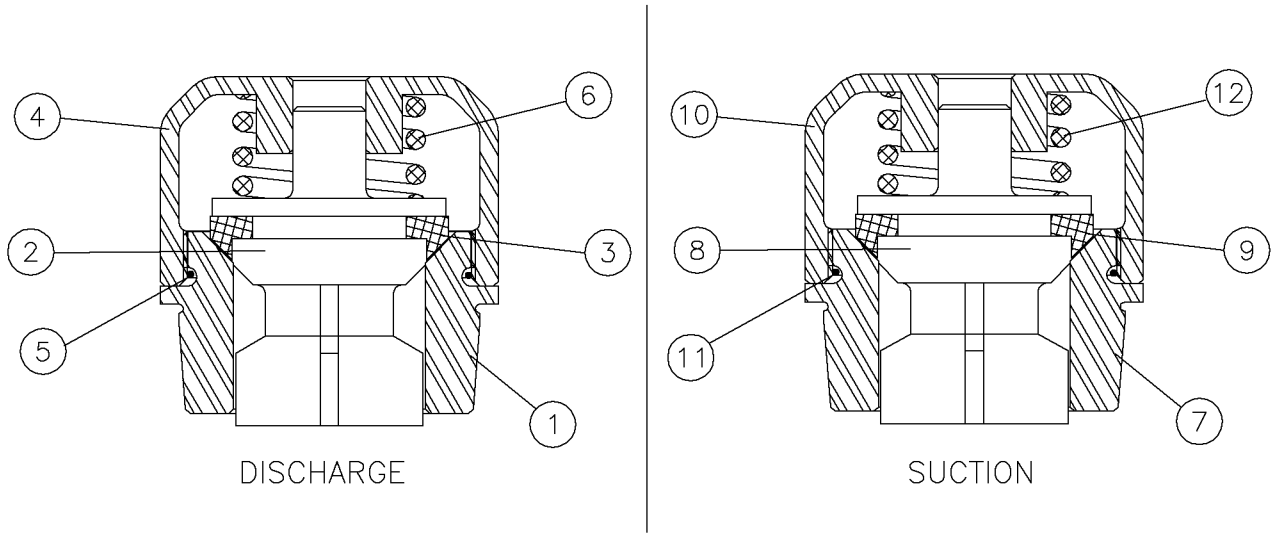
Water Pump-Fluid End-50 GPM Apex Fig 11-45



Water Pump-Fluid End-50 GPM Apex Fig 11-45

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272950	FLUID END	1	
2		296272951	SCREW-3/4"NC X 4 1/2" SOCKET HEAD CAP	2	
3		224408109	VALVE COVER AND CYL.HEAD PLUG	3	
4		220741057	3/8-16X1 1/4" HHCS	3	
5		296272952	VALVE COVER	1	
6		220741059	RETAINER PLATE	2	
7		224408131	SEAL-STUFFING BOX (RUBBER)	3	
8		296272953	O-RING #335	3	
9		277780030	HEX HD CAP SCREW - 5/8 NCX 1 3/4	8	
10		220741065	5/8-11X7 1/2" HHCS	8	
11		296272954	RETAINER PLATE	1	
12		220741069	3/8-16 X 1 1/2" HHCS	2	

Water Pump-Suction/Discharge Valve-50 GPM Apex Fig 11-46

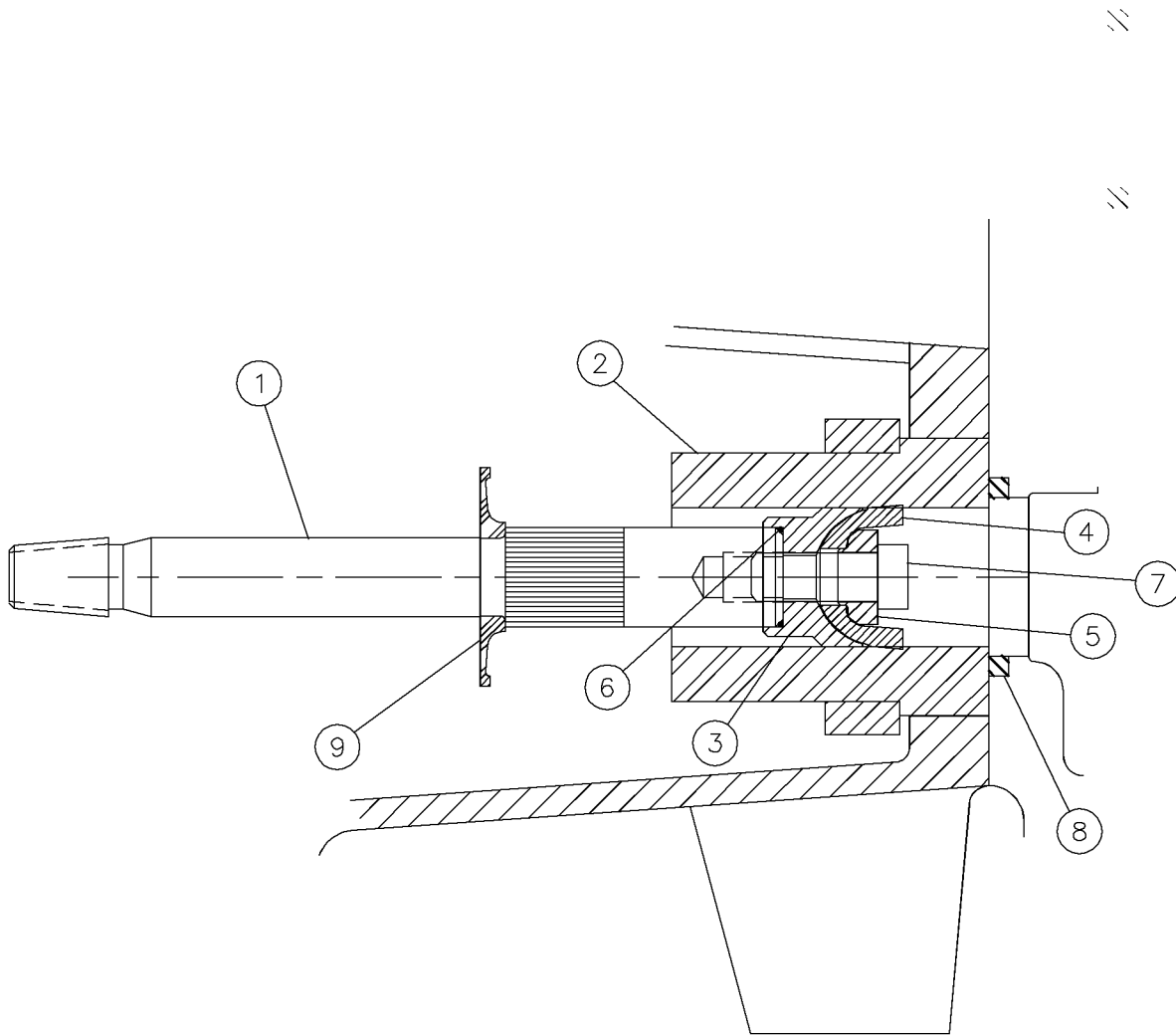


ABRASIVE RESISTANT VALVES

Water Pump-Suction/Discharge Valve-50 GPM Apex Fig 11-46

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		244460033	VALVE SEAT - SUCTION	1	
2		244460029	VAVLE BODY	1	
3		244460023	POLYURETHANE INSERT	1	
4		244460027	GUIDE CAGE	1	
5		224408125	O-RING (RUBBER) SIZE 032	1	
6		220741141	SPRING - VALVE	1	
7		244460021	VALVE SEAT - DISCHARGE	1	
8		244460029	VAVLE BODY	1	
9		244460023	POLYURETHANE INSERT	1	
10		244460027	GUIDE CAGE	1	
11		224408125	O-RING (RUBBER) SIZE 032	1	
12		220741141	SPRING - VALVE	1	
		244460005	VALVE ASSY - ABRASIVE RESISTANT (SUCTION)	3	Inc. Ref. No.'s 1-6
		244460007	VALVE ASSY - ABRASIVE RESISTANT (DISCHARGE)	3	inc. Ref. No.'s 7-12

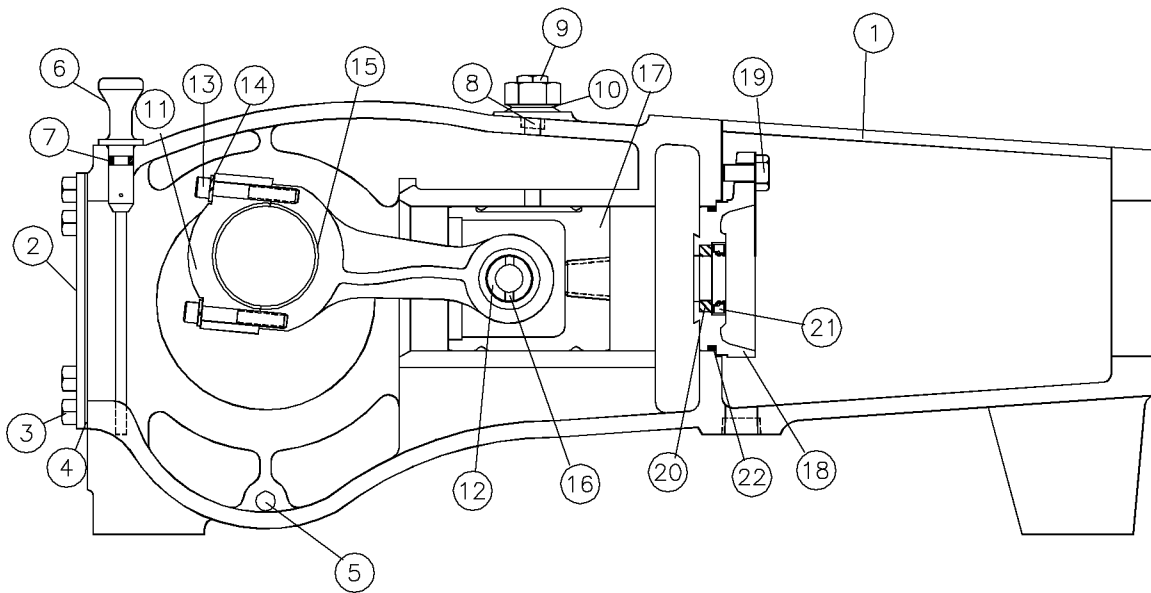
Water Pump-Piston-50 GPM Aplex Fig 11-47



Water Pump-Piston-50 GPM Aplex Fig 11-47

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272955	PISTON ROD	1	
2		296272956	PISTON LINER-2 1/4" WHITE CERAMIC	1	
3		296272957	PISTON HUB	1	
4		296272958	PISTON CUP HSN & KEVLAR	1	
5		296272959	PISTON KEEPER	1	
6		220741075	O-RING-POLYURETHANE (SIZE 024)	1	
7		279264001	PISTON - FASTENER END	1	
8		224408131	SEAL-STUFFING BOX (RUBBER)	1	
9		220741091	BAFFLE PLATE-LOW TEMP. RUBBER	1	

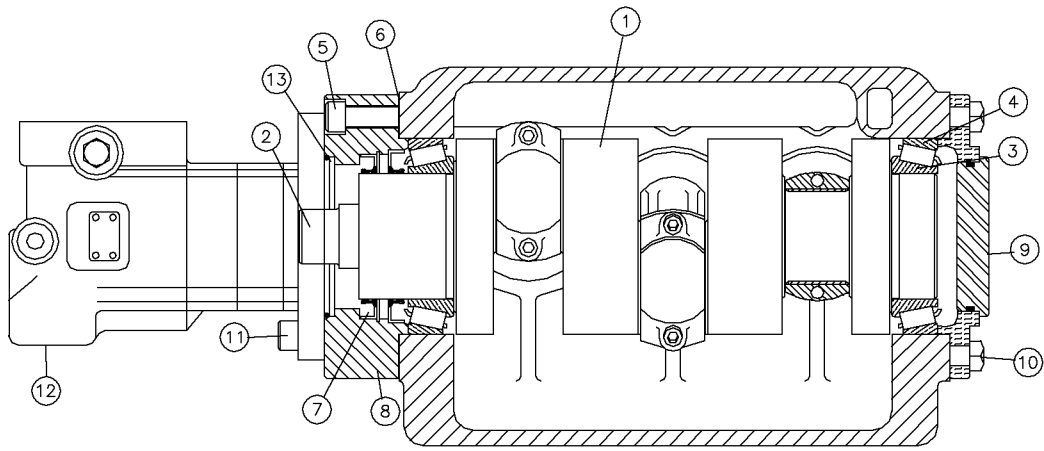
Water Pump-Power Frame-70 GPM Apex Fig 11-48



Water Pump-Power Frame-70 GPM Apex Fig 11-48

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296285084	POWER FRAME	1	
2		296285085	CRANKCASE COVER	1	
3		220741009	3/8-16X5/8 HHCS	8	
4		224408079	GASKET-CRANKCASE COVER	1	
5		239383013	PLUG-1/2 NPT SQ HEAD	2	
6		224408081	OIL LEVEL DIPSTICK	1	
7		224408083	O-RING	1	
8		239383009	PLUG-1/4 NPT SOCKET HEAD PLUG	3	
9		277781019	FILTER - BREATHER	1	
10		296285086	3/4" PIPE PLUG	1	
11		224408085	CONNECTING ROD	3	
12		224408087	WRIST PIN BUSHING	1	
13		296285087	3/8" NC X 2 1/2" SOCKET HEAD CAP SCREW	2	
14		296285088	3/8" REG. SPRING LOCKWASHER	2	
15		283701001	BEARING - CRANK PIN 2 HALVES SC65	3	
16		224408091	WRIST PIN	3	
17		224408093	CROSSHEAD	3	
18		224408095	WIPER BOX	3	
19		296285089	1/2" X 1 1/2 LONG HEAD CAP SCREW	6	
20		224408099	POLYPAK RING	3	
21		224408101	OIL SEAL-WIPER BOX	3	
22		224408103	O-RING-WIPER BOX	3	

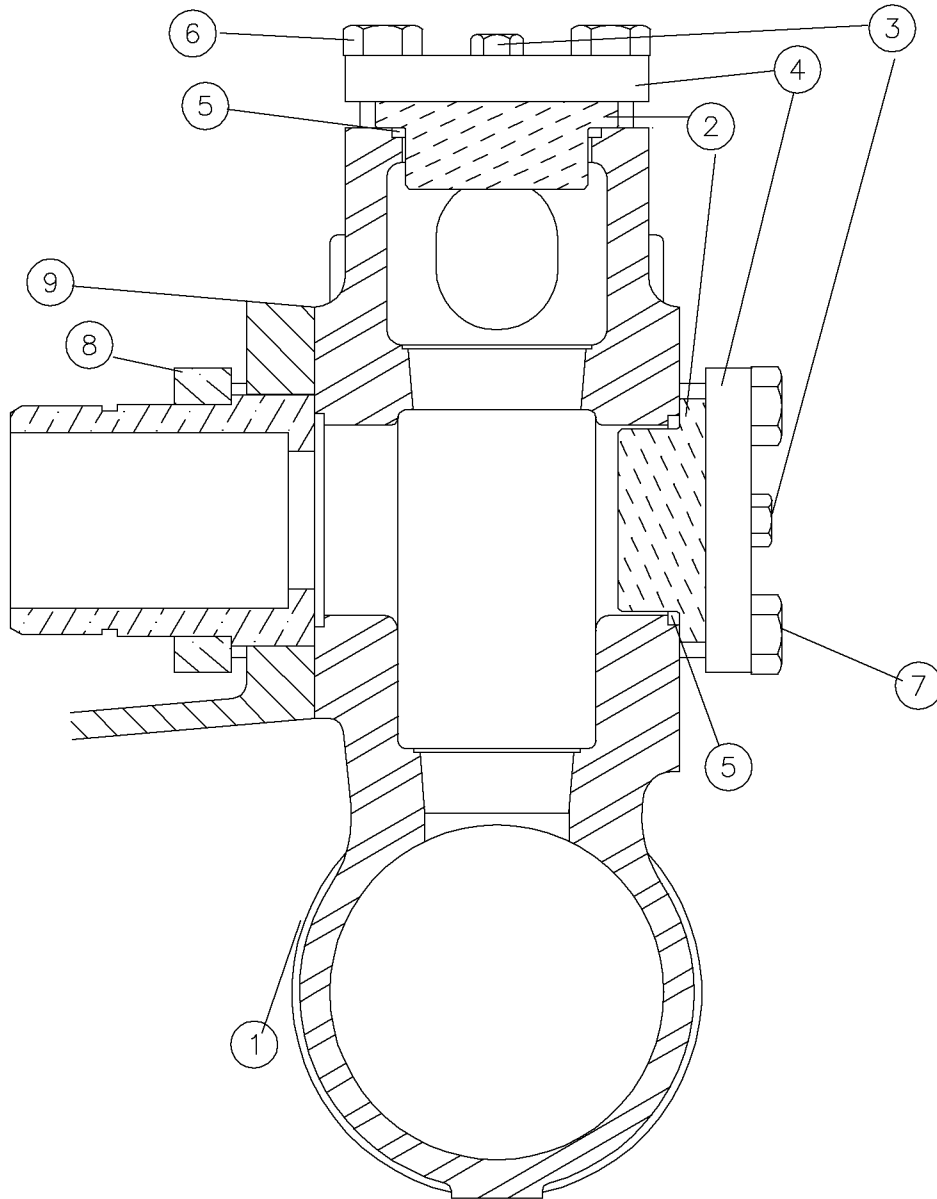
Water Pump-Crankshaft-70 GPM Apex Fig 11-49



Water Pump-Crankshaft-70 GPM Apex Fig 11-49

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		244460009	CRANKSHAFT	1	
2		244460011	SPLINE ADAPTER	1	
3		234309005	BEARING CONE	2	
4		296285091	BEARING CUP	2	
5		296285092	1/2" NC HEX HEAD CAP SCREW 2 3/4" LONG	6	
6		277781013	SHIM SET	1	
7		228098025	OIL SEAL	1	
8		244460015	BEARING RETAINER & MOTOR ADAPTER	1	
9		296285093	BLIND BEARING RETAINER	1	
10		296285089	1/2"-13UNC HEX HD. CAP SCREW X 1 1/2" LONG	6	
		296285090	CRANKSHAFT ASSY		Inc. Ref. 1 And 2
		296253158	SC - 65 LH - CRANKSHAFT KIT W/ BEARINGS		Inc. Ref. 1-4

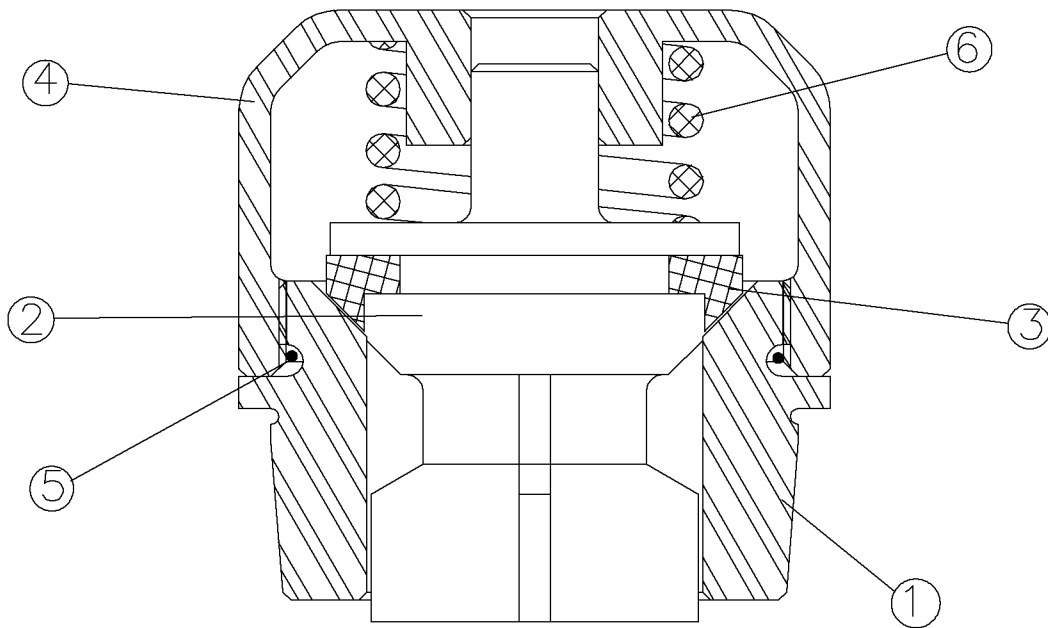
Water Pump-Fluid End-70 GPM Apex Fig 11-50



Water Pump-Fluid End-70 GPM Apex Fig 11-50

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296285095	FLUID END-DUCTILE IRON	1	Inc. All Items Figure
2		244643021	VALVE COVER & CYL. HEAD PLUG	6	
3		239383023	CAP SCREW-1/2 NC-1 1/4 HEX HD	6	
4		244460017	VALVE COVER & CYL HEAD PLUG RETAINER	2	
5		296251335	O-RING - FLUID SEAL	6	
6		244643023	SCREW-3/4-10 X 2 1/2 HEX HD C	8	
7		244643025	SCREW-3/4-10 X 9 1/2 HEX HD C	8	
8		296285096	RETAINER PLATE	1	
9		277781035	HEX HD CAP SCREW - 5/8 X 2 1/4	2	

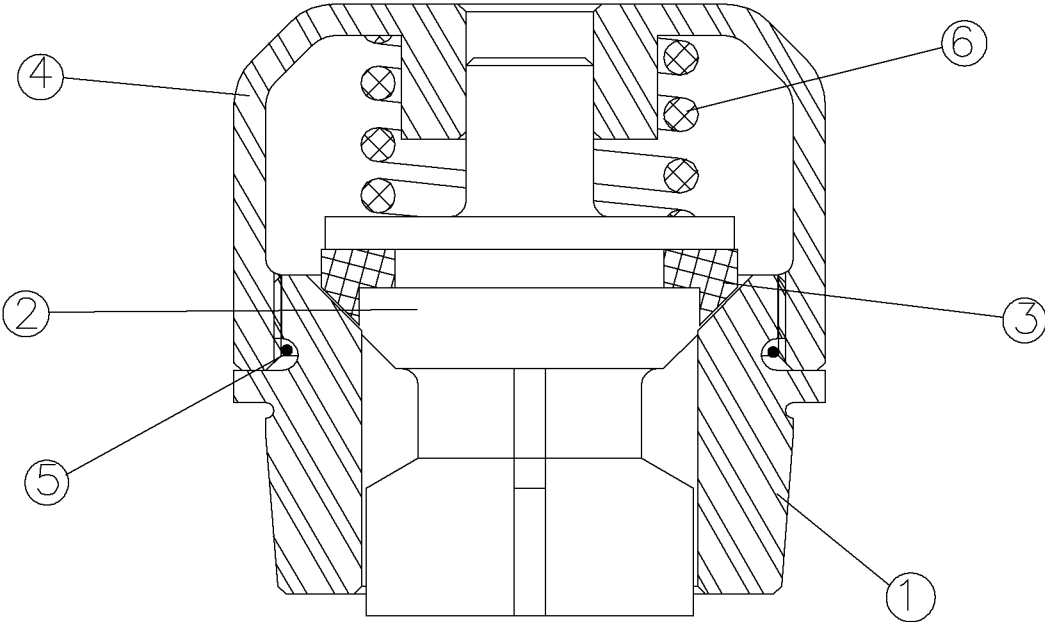
Water Pump-Suction/Discharge valve-70 GPM Apex Fig 11-51r01



Water Pump-Suction/Discharge valve-70 GPM Apex Fig 11-51r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	November, 2005		Update In Parts List.
1		277781043	VALVE SEAT - SUCTION	1	
2		277781045	VALVE BODY	1	
3		277781047	POLYURETHANE THRUST	1	
4		277781049	GUIDE CAGE	1	
5		239383033	O-RING NITRILE RUBBER-2-035	1	
6		277781053	VALVE SPRING	1	
		277781057	VALVE ASSEMBLY - SUCTION	3	Inc. Ref. 1-6
		277781059	VALVE ASSEMBLY - DISCHARGE	3	Inc. Ref. 1-6

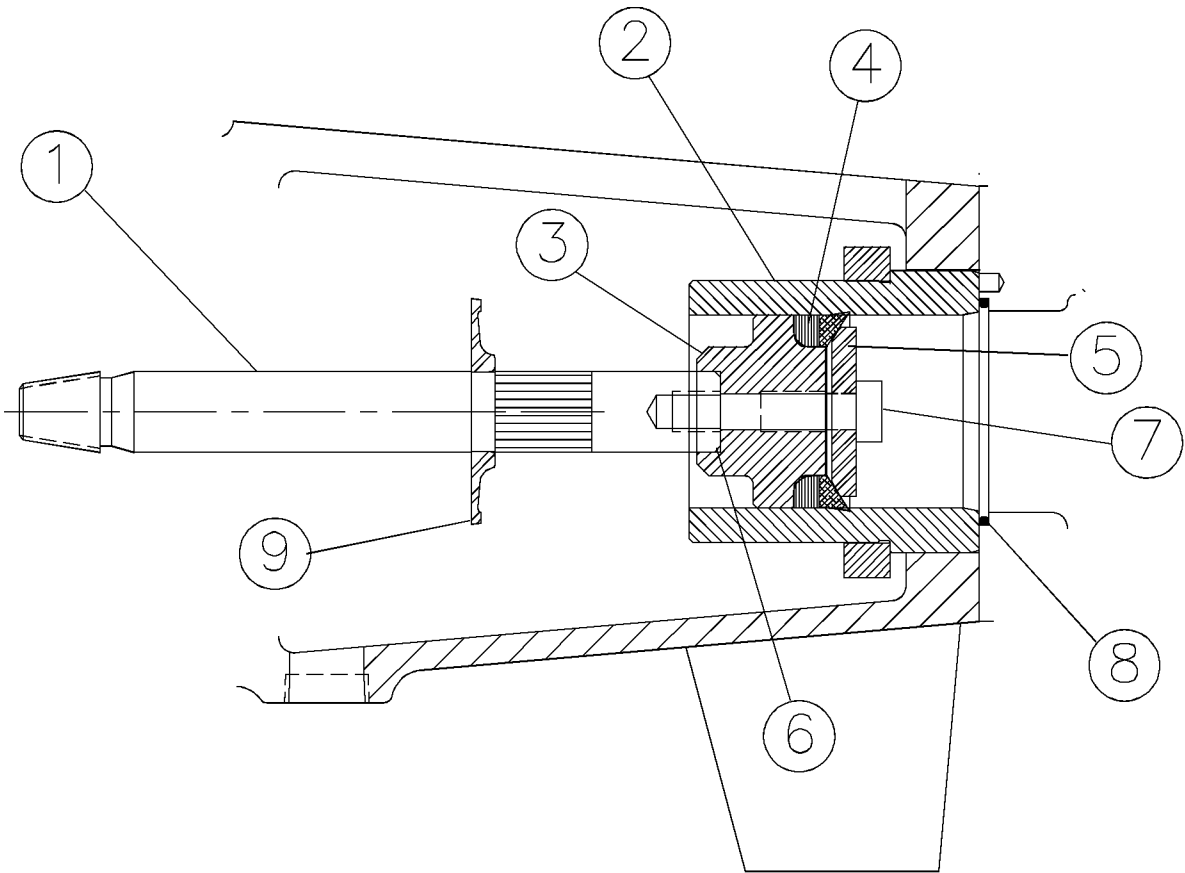
Water Pump-Suction/Discharge valve-70 GPM Apex Fig 11-51



Water Pump-Suction/Discharge valve-70 GPM Apex Fig 11-51

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		277781043	VALVE SEAT - SUCTION	1	
2		277781045	VALVE BODY	1	
3		277781047	POLYURETHANE THRUST	1	
4		277781049	GUIDE CAGE	1	
5		239383033	O-RING NITRILE RUBBER-2-035	1	
6		277781053	VALVE SPRING	1	
		280538001	VALVE ASSEMBLY - SUCTION	3	Inc. Ref. 1-6
		296285097	VALVE ASSEMBLY - DISCHARGE	3	Inc. Ref. 1-6

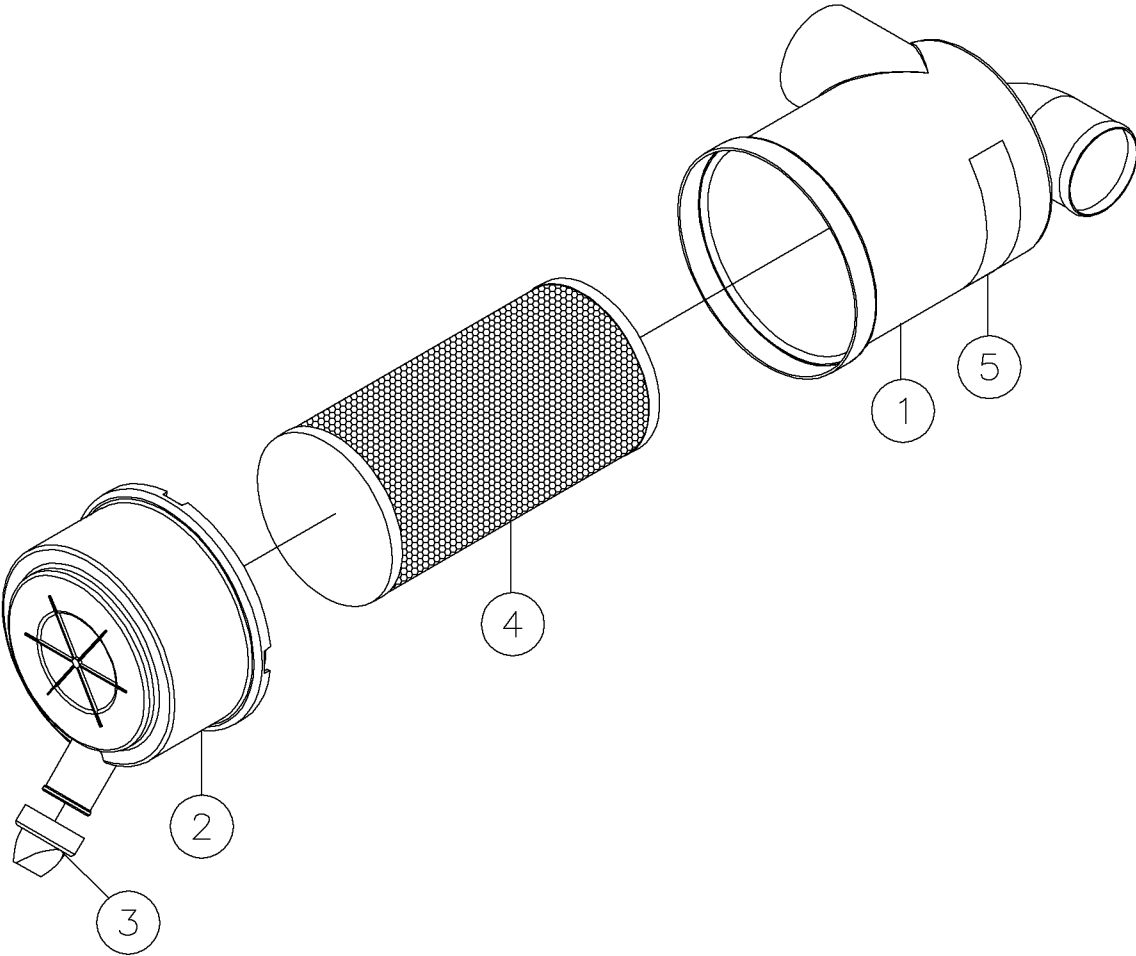
Water Pump-Piston-70 GPM Aplex Fig 11-52



Water Pump-Piston-70 GPM Apex Fig 11-52

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		279254001	PISTON - ROD	1	
2		296251337	PISTON LINER 3"	1	
3		296285098	PISTON HUB	1	
4		296285099	PISTON CUP HSN & KEVLAR	1	
5		296285100	PISTON KEEPER	1	
6		220741075	O-RING-POLYURETHANE (SIZE 024)	1	
7		279264001	PISTON - FASTENER END	1	
8		296251341	FLUID SEAL	1	
9		277781061	BAFFLE PLATE	1	

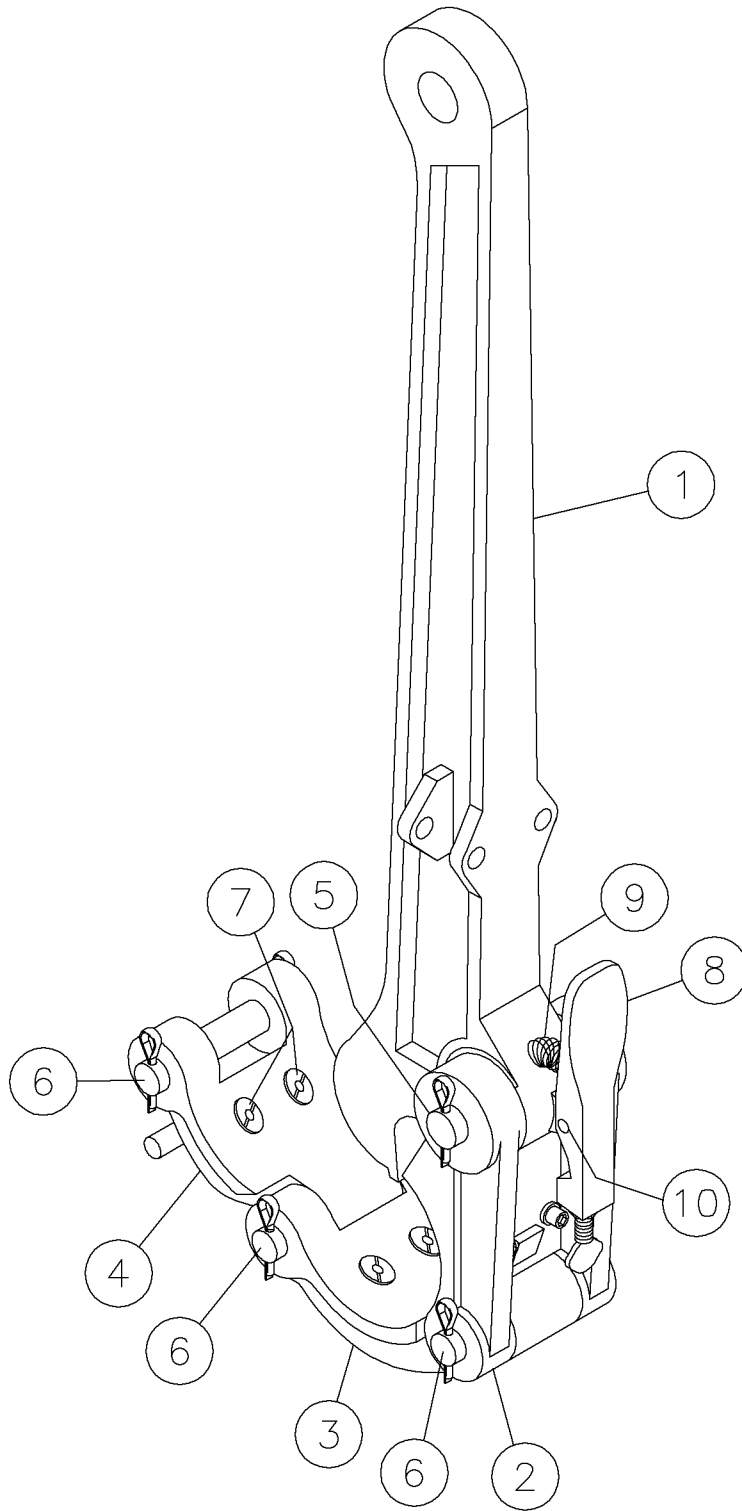
Air Cleaner Fig 11-53



Air Cleaner Fig 11-53

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		224847003	BODY ASSEMBLY	1	
2		220166007	COVER ASSEMBLY	1	
3		220166009	VALVE	1	
4		220166005	ELEMENT ASSEMBLY	1	
5		224847005	DECAL - INSTRUCTION	1	
6		224847001	AIR CLEANER	1	Inc. All Items In Figure

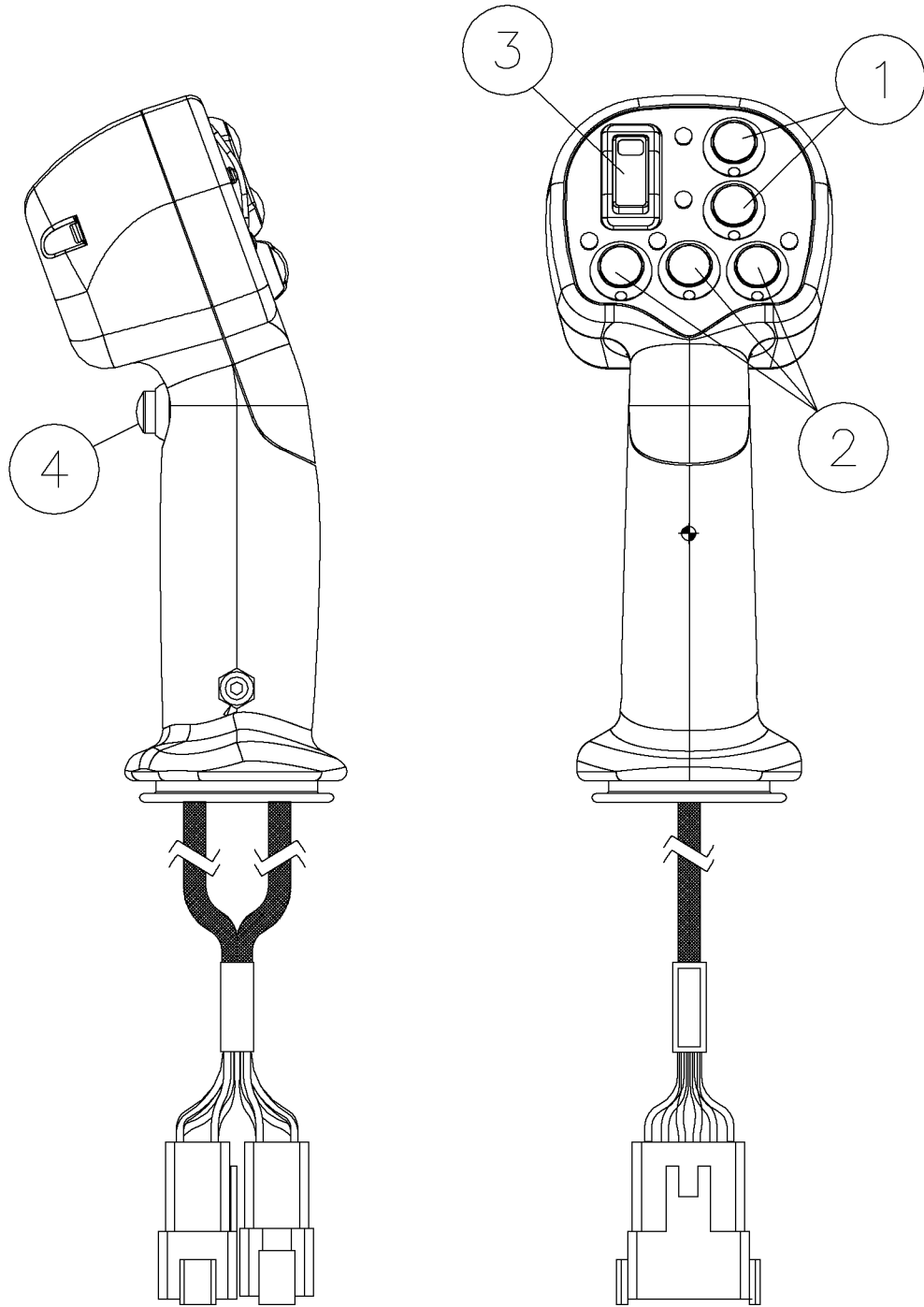
Tong-K30 Light Weight Tubing Fig 11-54



Tong-K30 Light Weight Tubing Fig 11-54

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		230970003	TONG HANDLE	1	
2		230970005	HANDLE JAW	1	
3		230970007	CENTER JAW	1	
4		230970009	LATCH JAW	1	
5		230970011	HANDLE PIN	1	
6		230970013	JAW PIN	3	
7		230970015	BUSHING AND SCREW	6	
8		230970017	ADJUSTABLE TONG LATCH	1	
9		230970019	LATCH SPRING	1	
10		230970021	LATCH RIVET	1	
		230970001	TONG-K30 LIGHT WEIGHT TUBING		Inc All Items In Figure

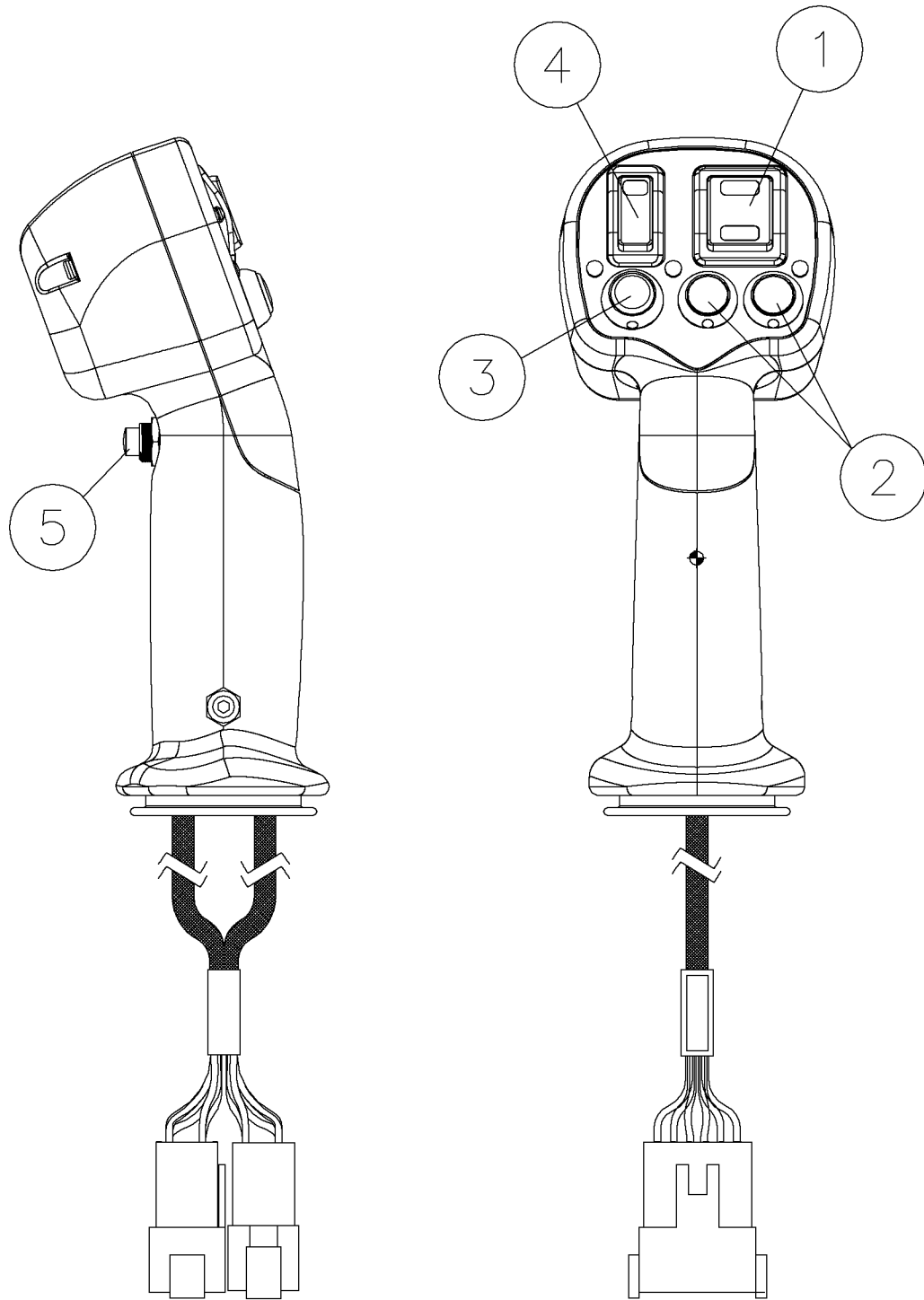
Left Joystick Fig 11-55



Left Joystick Fig 11-55

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296271136	SWITCH	2	
2		296271137	SWITCH	3	
3		296271141	ROCKER SWITCH	1	
4		296271138	SWITCH	1	
		296273907	HANDLE GRIP ASSEMBLY - LEFT JOYSTICK		Inc. All Items In Figure

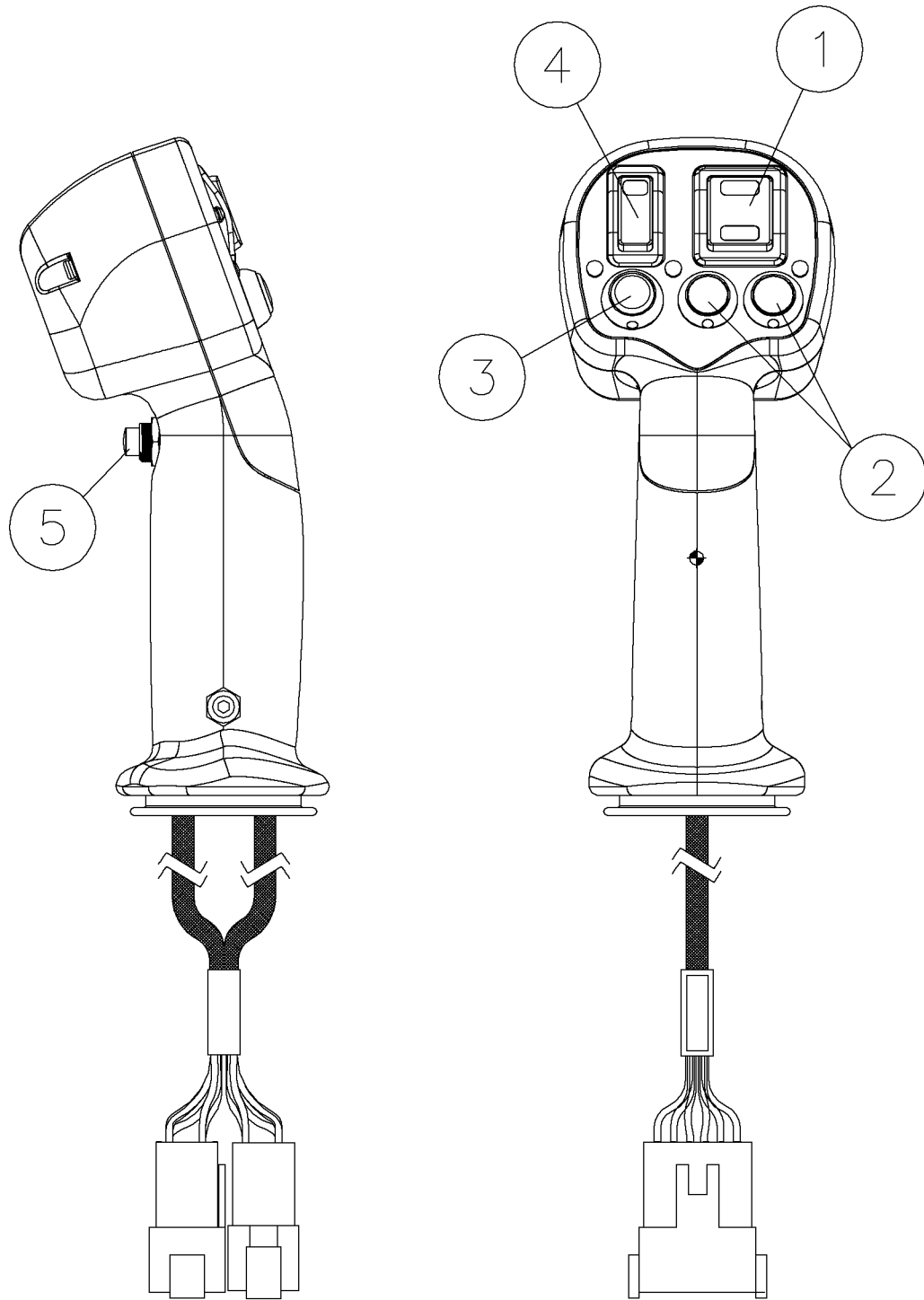
Right Joystick Fig 11-56r01



Right Joystick Fig 11-56r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296271142	ROCKER SWITCH	1	
2		296271137	SWITCH	2	
3		296271139	SWITCH	1	
4		296271141	ROCKER SWITCH	1	
5		296271140	SWITCH	1	
		296273908	HANDLE GRIP ASSEMBLY - RIGHT JOYSTICK		Inc. All Items In Figure

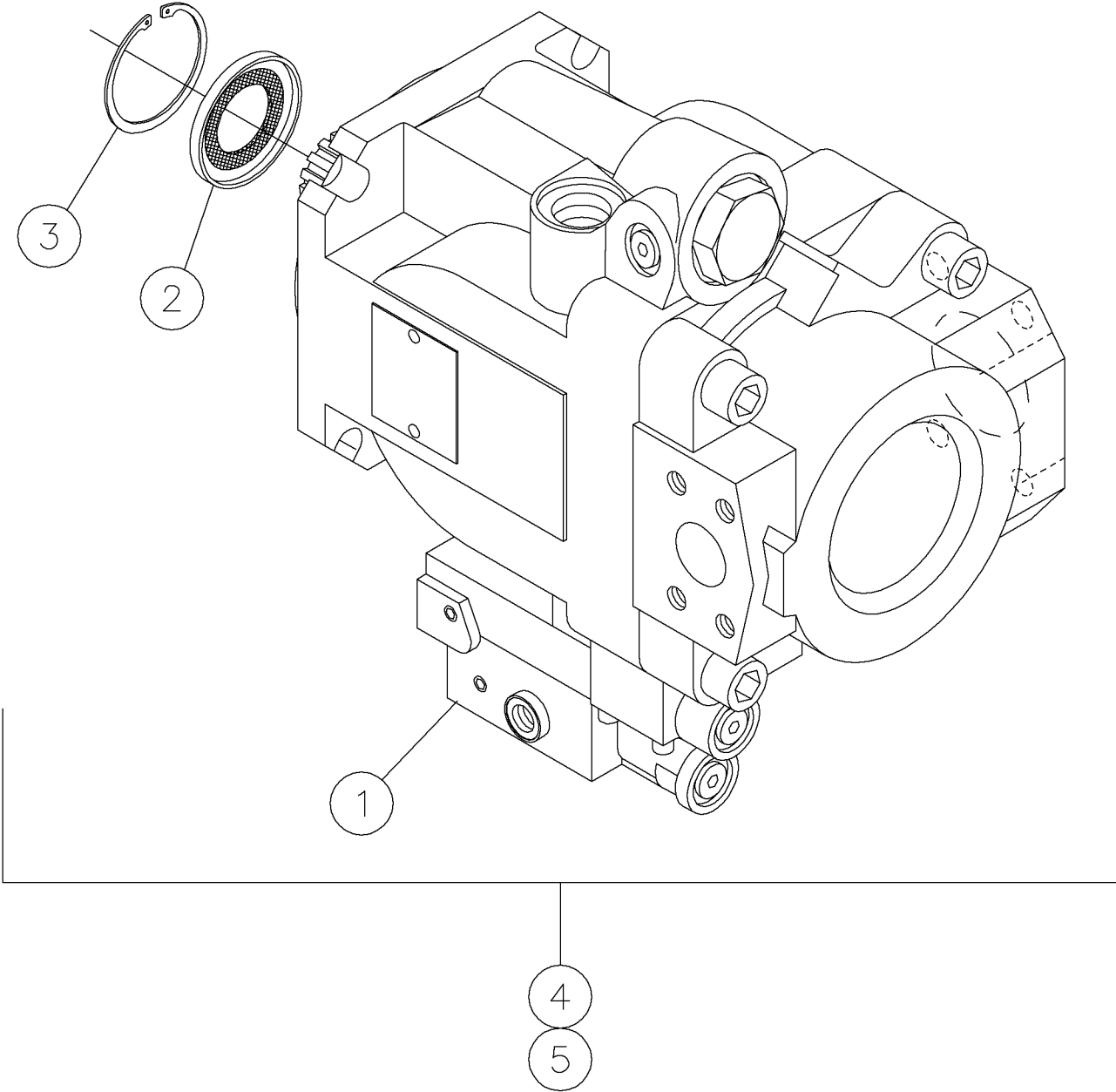
Right Joystick Fig 11-56



Right Joystick Fig 11-56

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296271142	ROCKER SWITCH	1	
2		296271137	SWITCH	3	
3		296271139	SWITCH	1	
4		296271141	ROCKER SWITCH	1	
5		296271140	SWITCH	1	
		296273908	HANDLE GRIP ASSEMBLY - RIGHT JOYSTICK		Inc. All Items In Figure

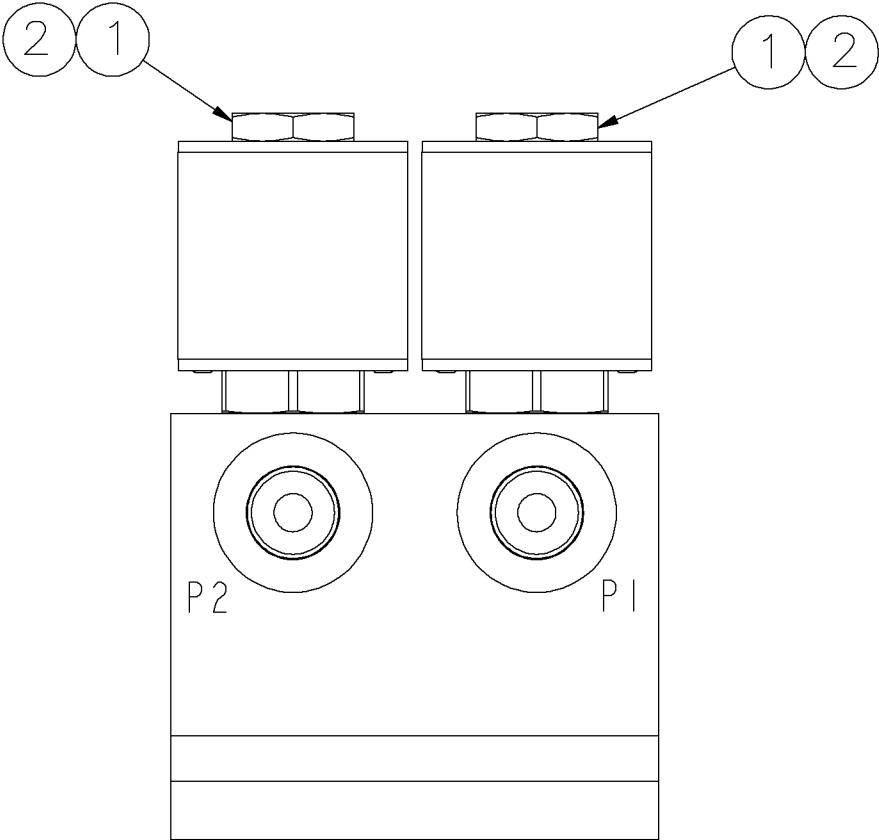
Hyd. Pump-PFC/Implement Fig 11-57



Hyd. Pump-PFC/Implement Fig 11-57

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278885003	CONTROLLER KIT	1	Inc. O-Rings
		278885005	O-RING	4	
2		278885007	LIP SEAL	1	
3		278885009	RETAINING RING	1	
4		278885011	SEAL KIT - OVERHAUL	1	
5		278885001	PUMP - HYDRAULIC 45 SERIES 74CC	1	Inc. All Items In Figure

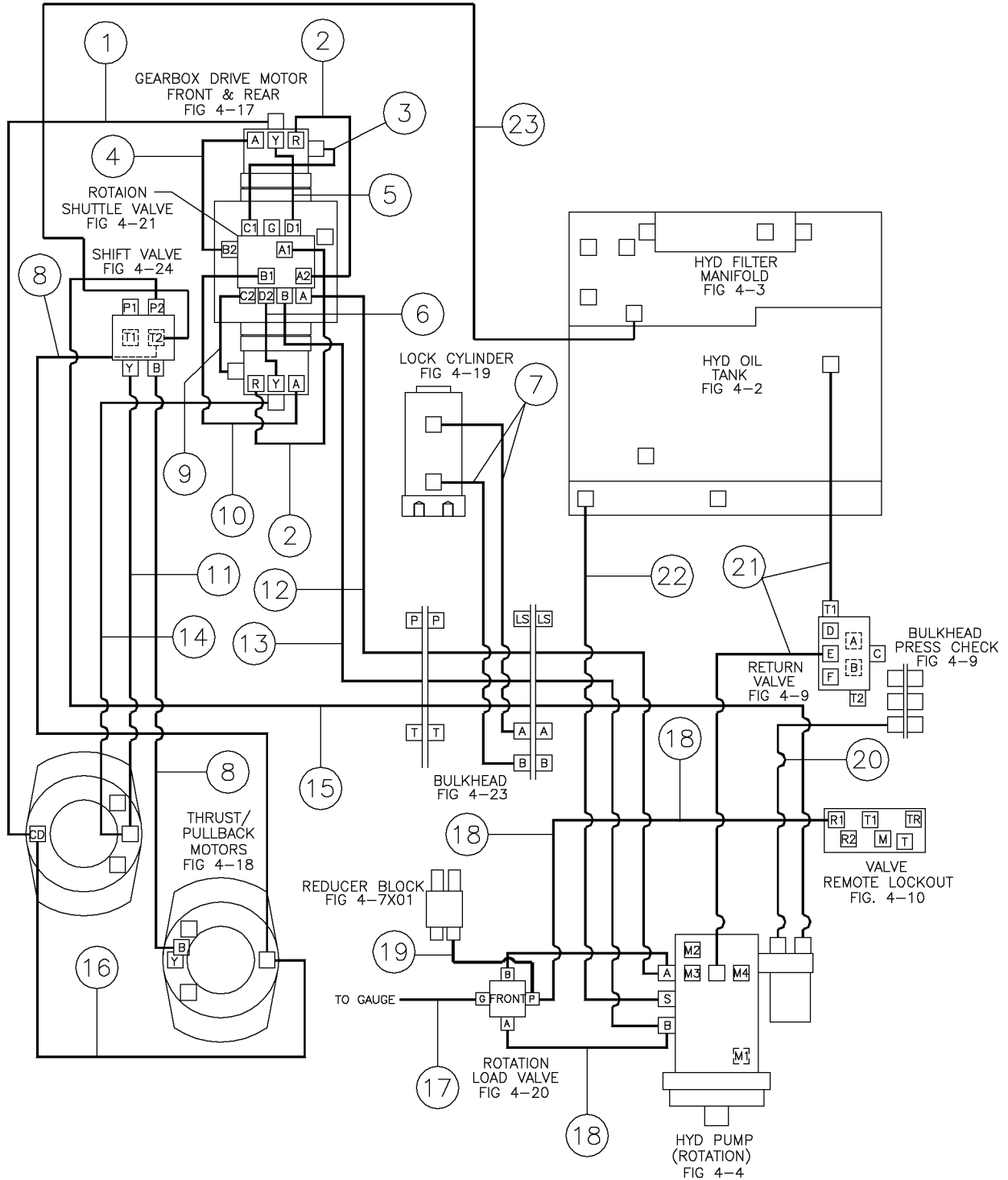
Valve-Thrust Fig 11-58



Valve-Thrust Fig 11-58

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272930	SOLENOID VALVE	2	
		161159001	SEAL KIT	2	
2		296271115	COIL	2	
		244725007	NUT - COIL	2	
3		296272931	PLUG	2	Not Shown
		296269557	VALVE- TWO SPEED W/BRAKE		Inc. All Items In Figure

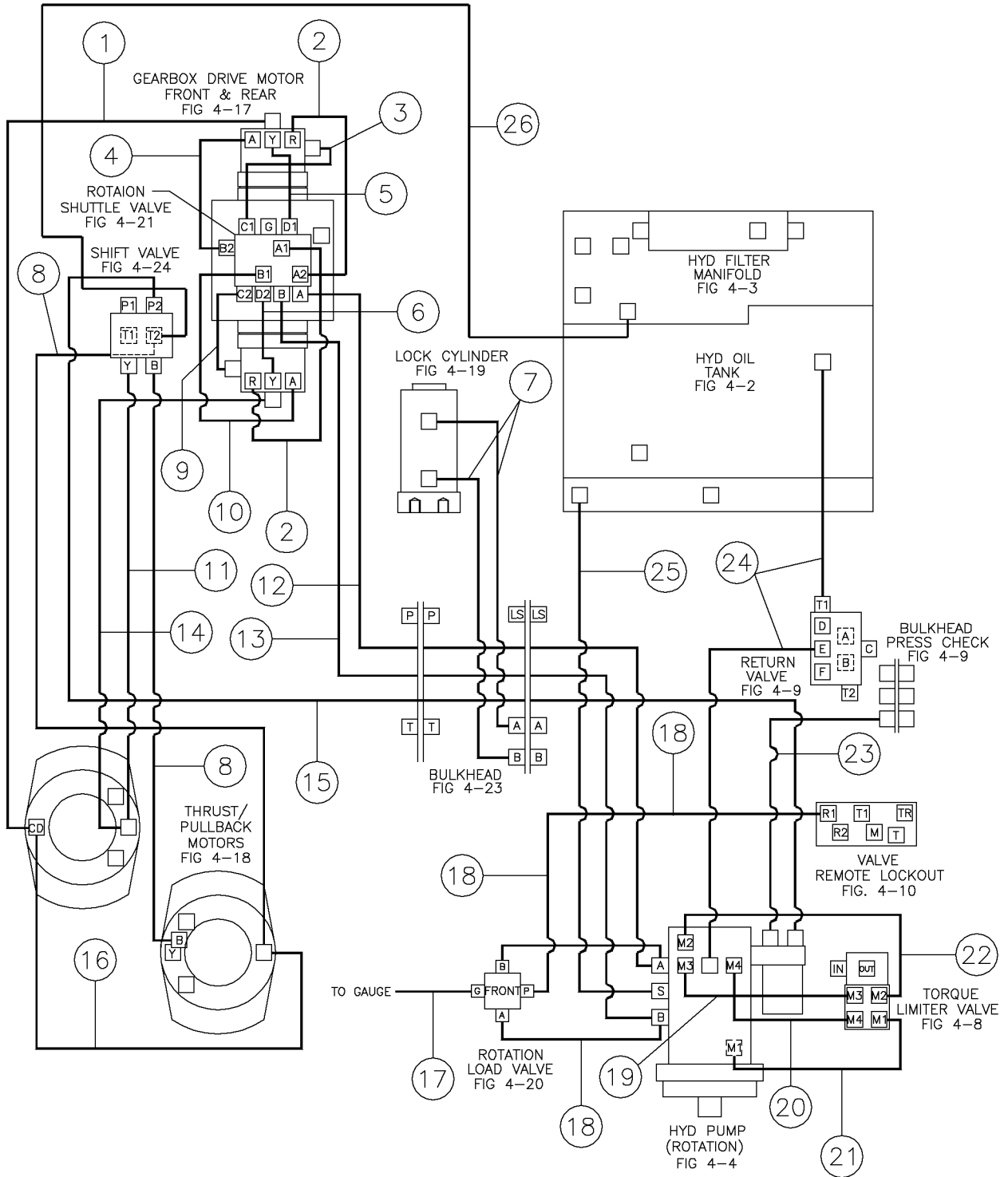
Rotation System Fig 12-1r02



Rotation System Fig 12-1r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296284029	HOSE - 1/2 X 36 8FS ST/90 JIC 3000PSI	1	10 FT/15 FT
2		296284031	HOSE - 1.0 X 38 16FSORFF ST/ST 6000PSI	2	10 FT/15 FT
3		296280953	HOSE - 1/2 X 20 8FS ST/ST JIC 3000PSI	1	10 FT/15 FT
4		296284033	HOSE - 1.0 X 42 16FSORFF ST/L90 6000PSI	1	10 FT/15 FT
5		296284040	HOSE - 3/8 X 11.5 6FS ST/ST JIC 3000PSI	1	10 FT/15 FT
6		296284041	HOSE - 3/8 X 13 6FS ST/ST JIC 3000PSI	1	10 FT/15 FT
7		296280947	HOSE - 1/4 X 240 4FS ST/90 JIC 3000PSI	2	15 FT
		296286531	HOSE-1/4 X 213 4FS ST/90 JIC 3000 PSI	2	10 FT
8		296284030	HOSE - 1/2 X 35 8FS ST/45 JIC 3000PSI	2	10 FT/15 FT
9		296284036	HOSE - 1/2 X 16 8FS ST/ST JIC 3000PSI	1	10 FT/15 FT
10		296284032	HOSE - 1.0 X 37 16FSORFF ST/45 6000PSI	1	10 FT/15 FT
11		296284037	HOSE - 3/8 X 27 6FS ST/ST JIC 3000PSI	1	10 FT/15 FT
12		296280922	HOSE - 1.00X276 16FSORFF/16CD62 ST/45 6000PSI	1	15 FT
		296286526	HOSE-1.00 X 264 16FSORFF/16CD62 ST/45 6000 PSI		10 FT
13		296280923	HOSE - 1.00X283 16FSORFF/16CD62 ST/L90 6000PSI	1	15 FT
		296286527	HOSE-1.00 X 264 16FSORFF/16CD62 ST/LL90 6000 PSI	1	10 FT
14		296284028	HOSE - 1/2 X 18 8FS ST/90 JIC 3000PSI	1	10 FT/15 FT
15		296280934	HOSE - 1.0 X 25 16FSORFF ST/45 6000PSI	1	15 FT
		296286530		1	10 FT
16		296284035	HOSE - 1/2 X 28 8FS ST/ST JIC 3000PSI	1	10 FT/15 FT
17		278923001	HOSE - .078X168 4FSJIC ST/ST MICRO 6900 PSI	1	10 FT/15 FT
18		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	3	10 FT/15 FT
19		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	1	10 FT/15 FT
20		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	1	10 FT/15 FT
21		296273675	HOSE- 1.0 X 15.5 - GMV	2	10 FT/15 FT
22		278806001	HOSE-1X30 16FSJIC ST/90 250PSI	1	10 FT/15 FT
23		296280956	HOSE-1/2X284 8FS ST/ST JIC 3000 PSI	1	15 FT
		296286533	HOSE-1/2 X 258 8FS ST/ST JIC 3000 PSI	1	10 FT

Rotation System Fig 12-1r01



Rotation System Fig 12-1r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296284029	HOSE - 1/2 X 36 8FS ST/90 JIC 3000PSI	1	10 FT/15 FT
2		296284031	HOSE - 1.0 X 38 16FSORFF ST/ST 6000PSI	2	10 FT/15 FT
3		296280953	HOSE - 1/2 X 20 8FS ST/ST JIC 3000PSI	1	10 FT/15 FT
4		296284033	HOSE - 1.0 X 42 16FSORFF ST/L90 6000PSI	1	10 FT/15 FT
5		296284040	HOSE - 3/8 X 11.5 6FS ST/ST JIC 3000PSI	1	10 FT/15 FT
6		296284041	HOSE - 3/8 X 13 6FS ST/ST JIC 3000PSI	1	10 FT/15 FT
7		296280947	HOSE - 1/4 X 240 4FS ST/90 JIC 3000PSI	2	15 FT
		296286531	HOSE-1/4 X 213 4FS ST/90 JIC 3000 PSI	2	10 FT
8		296284030	HOSE - 1/2 X 35 8FS ST/45 JIC 3000PSI	2	10 FT/15 FT
9		296284036	HOSE - 1/2 X 16 8FS ST/ST JIC 3000PSI	1	10 FT/15 FT
10		296284032	HOSE - 1.0 X 37 16FSORFF ST/45 6000PSI	1	10 FT/15 FT
11		296284037	HOSE - 3/8 X 27 6FS ST/ST JIC 3000PSI	1	10 FT/15 FT
12		296280922	HOSE - 1.00X276 16FSORFF/16CD62 ST/ 45 6000PSI	1	15 FT
		296286526	HOSE-1.00 X 264 16FSORFF/16CD62 ST/ 45 6000 PSI		10 FT
13		296280923	HOSE - 1.00X283 16FSORFF/16CD62 ST/ L90 6000PSI	1	15 FT
		296286527	HOSE-1.00 X 264 16FSORFF/16CD62 ST/ LL90 6000 PSI	1	10 FT
14		296284028	HOSE - 1/2 X 18 8FS ST/90 JIC 3000PSI	1	10 FT/15 FT
15		296280934	HOSE - 1.0 X 25 16FSORFF ST/45 6000PSI	1	15 FT
		296286530		1	10 FT
16		296284035	HOSE - 1/2 X 28 8FS ST/ST JIC 3000PSI	1	10 FT/15 FT
17		278923001	HOSE - .078X168 4FSJIC ST/ST MICRO 6900 PSI	1	10 FT/15 FT
18		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	3	10 FT/15 FT
19		278941001	HOSE - 1/4 X 11 FFOR ST/ST 6000 PSI	1	10 FT/15 FT
20		278942001	HOSE - 1/4 X 11 FFOR ST/90 6000 PSI	1	10 FT/15 FT
21		278944001	HOSE - 1/4 X 26 FFOR ST/90 6000 PSI	1	10 FT/15 FT
22		278943001	HOSE - 1/4 X 13 FFOR ST/ST 6000 PSI	1	10 FT/15 FT
23		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	1	10 FT/15 FT
24		296273675	HOSE- 1.0 X 15.5 - GMV	2	10 FT/15 FT
25		278806001	HOSE-1X30 16FSJIC ST/90 250PSI	1	10 FT/15 FT
26		296280956	HOSE-1/2X284 8FS ST/ST JIC 3000 PSI	1	15 FT
		296286533	HOSE-1/2 X 258 8FS ST/ST JIC 3000 PSI	1	10 FT

Rotation System Fig 12-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296284029	HOSE - 1/2 X 36 8FS ST/90 JIC 3000PSI	1	
2		296284031	HOSE - 1.0 X 38 16FSORFF ST/ST 6000PSI	2	
3		296280953	HOSE - 1/2 X 20 8FS ST/ST JIC 3000PSI	1	
4		296284033	HOSE - 1.0 X 42 16FSORFF ST/L90 6000PSI	1	
5		296284040	HOSE - 3/8 X 11.5 6FS ST/ST JIC 3000PSI	1	
6		296284041	HOSE - 3/8 X 13 6FS ST/ST JIC 3000PSI	1	
7		296280947	HOSE - 1/4 X 240 4FS ST/90 JIC 3000PSI	2	
8		296284030	HOSE - 1/2 X 35 8FS ST/45 JIC 3000PSI	2	
9		296284036	HOSE - 1/2 X 16 8FS ST/ST JIC 3000PSI	1	
10		296284032	HOSE - 1.0 X 37 16FSORFF ST/45 6000PSI	1	
11		296284037	HOSE - 3/8 X 27 6FS ST/ST JIC 3000PSI	1	
12		296280922	HOSE - 1.00X276 16FSORFF/16CD62 ST/ 45 6000PSI	1	
13		296280923	HOSE - 1.00X283 16FSORFF/16CD62 ST/ L90 6000PSI	1	
14		296284028	HOSE - 1/2 X 18 8FS ST/90 JIC 3000PSI	1	
15		296280934	HOSE - 1.0 X 25 16FSORFF ST/45 6000PSI	1	
16		296284035	HOSE - 1/2 X 28 8FS ST/ST JIC 3000PSI	1	
17		278923001	HOSE - .078X168 4FSJIC ST/ST MICRO 6900 PSI	1	
18		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	3	
19		278941001	HOSE - 1/4 X 11 FFOR ST/ST 6000 PSI	1	
20		278943001	HOSE - 1/4 X 13 FFOR ST/ST 6000 PSI	1	
21		278944001	HOSE - 1/4 X 26 FFOR ST/90 6000 PSI	1	
22		278943001	HOSE - 1/4 X 13 FFOR ST/ST 6000 PSI	1	
23		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	1	
24		296273675	HOSE- 1.0 X 15.5 - GMV	2	
25		278806001	HOSE-1X30 16FSJIC ST/90 250PSI	1	

Thrust/Pullback Fig 12-2r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296284039	HOSE - 3/8 X 17 6FS ST/90 JIC 3000PSI	1	10 FT/15 FT
2		296280931	HOSE - 1.00 X 38 16FSORFF ST/ST 6000PSI	1	10 FT/15 FT
3		296280933	HOSE-1.00X4 16FSORFF ST/90L	1	10 FT/15 FT
4		296280932	HOSE - 1.00 X 24 16FSORFF ST/90 6000PSI	1	10 FT/15 FT
5		296284034	HOSE - 1.00 X 25 16FSORFF ST/45 6000PSI	1	10 FT/15 FT
6		296280924	HOSE - 1.00 X 241 16FSORFF/16CD62 ST/90 6000PSI	1	15 FT
		296286528		1	10 FT
7		296280925	HOSE - 1.00 X 244 16FSORFF/16CD62 ST/90 6000PSI	1	15 FT
		296286529		1	10 FT
8		296273711	HOSE-1.0X16-16FJX STR/90M-GMV	1	10 FT/15 FT
9		278923001	HOSE - .078X168 4FSJIC ST/ST MICRO 6900 PSI	1	10 FT/15 FT
10		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	2	10 FT/15 FT
11		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	1	10 FT/15 FT
12		296273679	HOSE - 1.0 X 23 - 16FSJ/NONE - 16GMV	1	10 FT/15 FT
13		296280937	HOSE - 1/4 X 48 4FS ST/90 JIC 3000PSI	1	10 FT/15 FT
14		296273675	HOSE- 1.0 X 15.5 - GMV	1	10 FT/15 FT
15		296258418	HOSE - .08 X 14 4FS JIC ST/ST MICRO	1	10 FT/15 FT

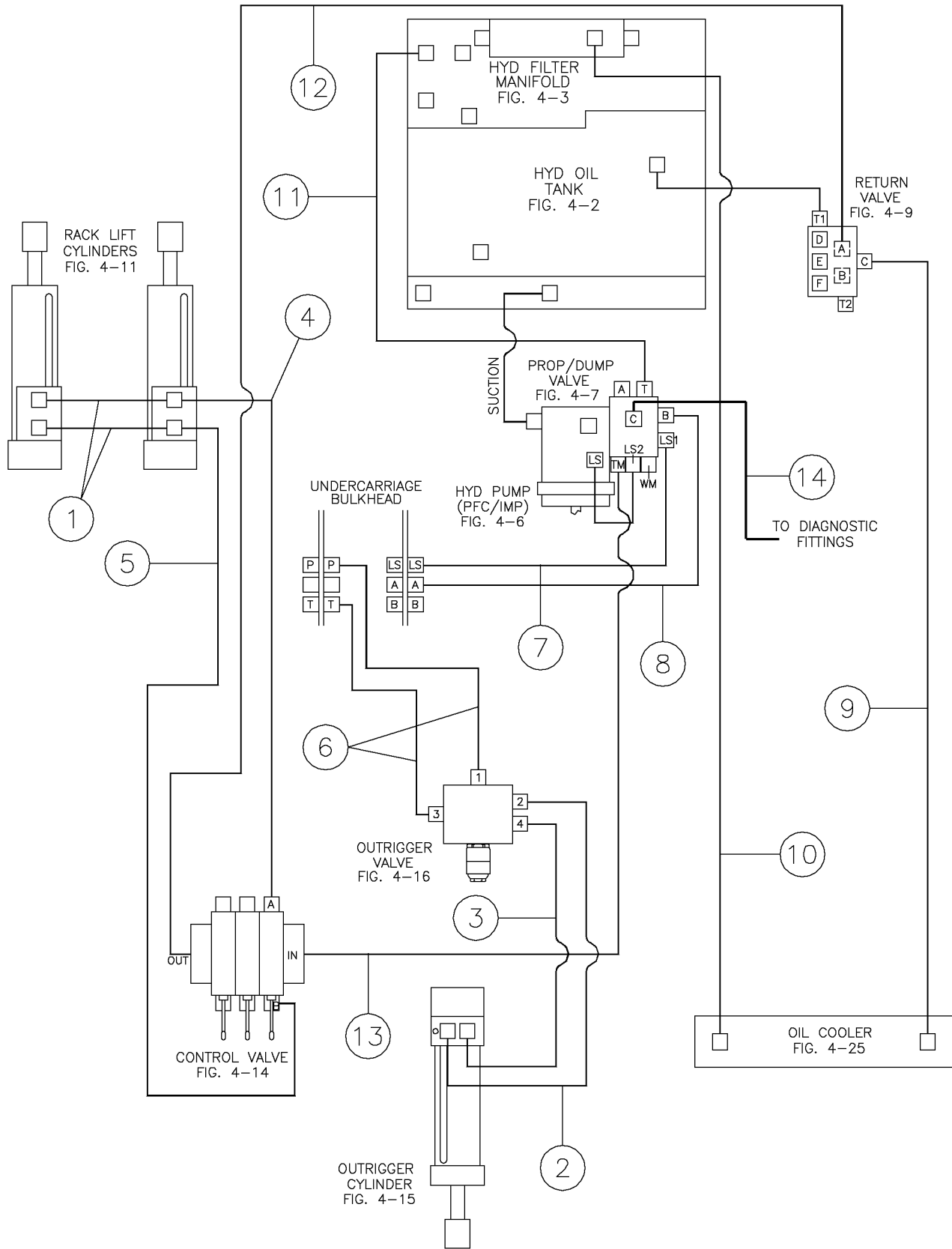
Thrust/Pullback Fig 12-2r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296284039	HOSE - 3/8 X 17 6FS ST/90 JIC 3000PSI	1	10 FT/15 FT
2		296280931	HOSE - 1.00 X 38 16FSORFF ST/ST 6000PSI	1	10 FT/15 FT
3		296280933	HOSE-1.00X4 16FSORFF ST/90L	1	10 FT/15 FT
4		296280932	HOSE - 1.00 X 24 16FSORFF ST/90 6000PSI	1	10 FT/15 FT
5		296284034	HOSE - 1.00 X 25 16FSORFF ST/45 6000PSI	1	10 FT/15 FT
6		296280924	HOSE - 1.00 X 241 16FSORFF/16CD62 ST/90 6000PSI	1	15 FT
		296286528		1	10 FT
7		296280925	HOSE - 1.00 X 244 16FSORFF/16CD62 ST/90 6000PSI	1	15 FT
		296286529		1	10 FT
8		296273711	HOSE-1.0X16-16FJX STR/90M-GMV	1	10 FT/15 FT
9		278923001	HOSE - .078X168 4FSJIC ST/ST MICRO 6900 PSI	1	10 FT/15 FT
10		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	2	10 FT/15 FT
11		278945001	HOSE - 1/4 X 20 FFOR ST/90 6000 PSI	1	10 FT/15 FT
12		278949001	HOSE - 1/4 X 24 FFOR ST/90 6000 PSI	1	10 FT/15 FT
13		296273679	HOSE - 1.0 X 23 - 16FSJ/NONE - 16GMV	1	10 FT/15 FT
14		296280937	HOSE - 1/4 X 48 4FS ST/90 JIC 3000PSI	1	10 FT/15 FT
15		296273675	HOSE- 1.0 X 15.5 - GMV	1	10 FT/15 FT
16		296258418	HOSE - .08 X 14 4FS JIC ST/ST MICRO	1	10 FT/15 FT

Thrust/Pullback Fig 12-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296284039	HOSE - 3/8 X 17 6FS ST/90 JIC 3000PSI	1	
2		296280931	HOSE - 1.00 X 38 16FSORFF ST/ST 6000PSI	1	
3		296280933	HOSE-1.00X4 16FSORFF ST/90L	1	
4		296280932	HOSE - 1.00 X 24 16FSORFF ST/90 6000PSI	1	
5		296284034	HOSE - 1.00 X 25 16FSORFF ST/45 6000PSI	1	
6		296280924	HOSE - 1.00 X 241 16FSORFF/16CD62 ST/90 6000PSI	1	
7		296280925	HOSE - 1.00 X 244 16FSORFF/16CD62 ST/90 6000PSI	1	
8		296273711	HOSE-1.0X16-16FJX STR/90M-GMV	1	
9		278923001	HOSE - .078X168 4FSJIC ST/ST MICRO 6900 PSI	1	
10		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	2	
11		278945001	HOSE - 1/4 X 20 FFOR ST/90 6000 PSI	1	
12		278949001	HOSE - 1/4 X 24 FFOR ST/90 6000 PSI	1	
13		296273679	HOSE - 1.0 X 23 - 16FSJ/NONE - 16GMV	1	
14		296280937	HOSE - 1/4 X 48 4FS ST/90 JIC 3000PSI	1	
15		296273675	HOSE- 1.0 X 15.5 - GMV	1	
16		296258418	HOSE - .08 X 14 4FS JIC ST/ST MICRO	1	

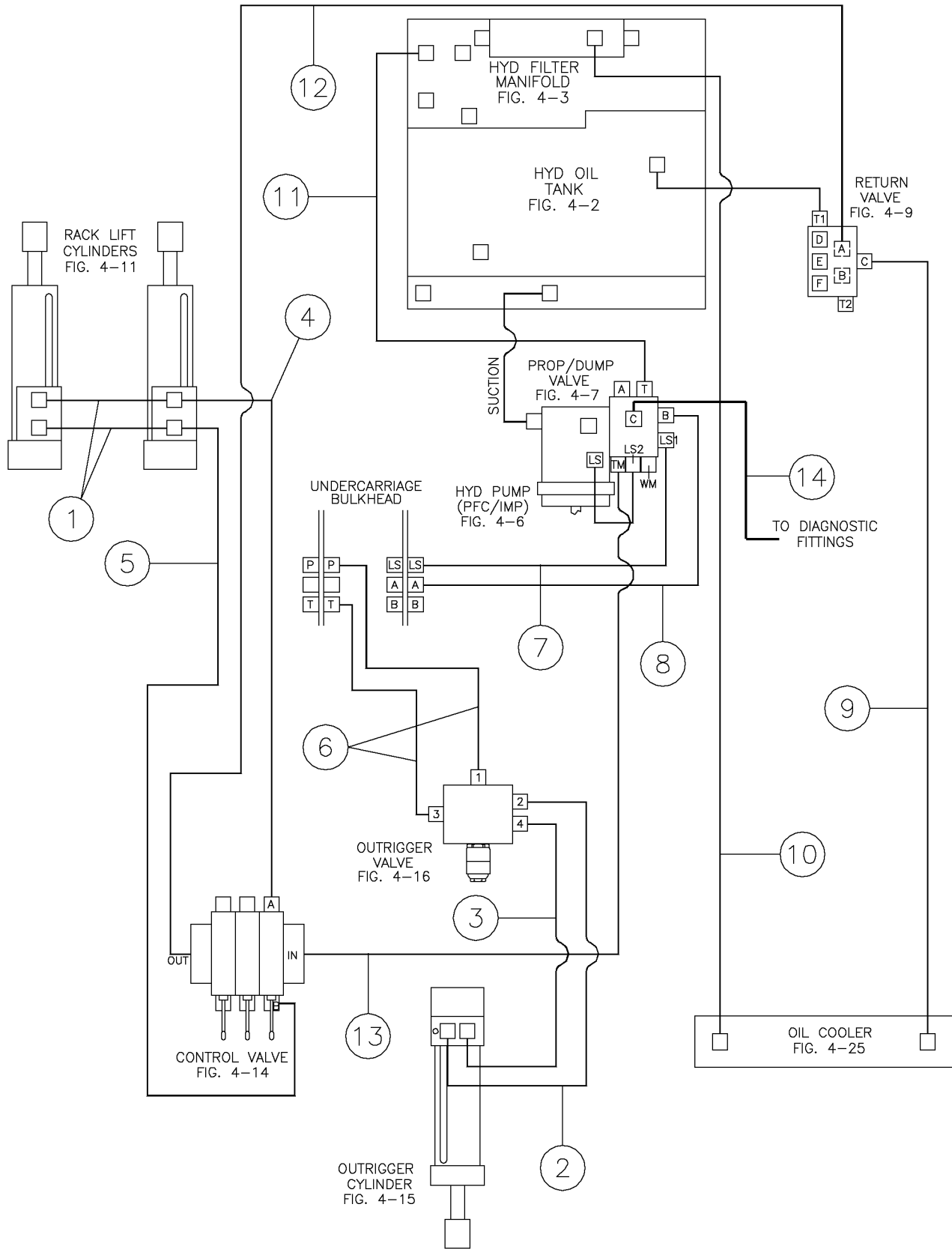
Implement System Fig 12-3r02



Implement System Fig 12-3r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278804001	HOSE-3/8X12 6FSJIC ST/90 M3K	2	10 FT/15 FT
2		57940719	HOSE-3/8X21 6FSJICST/45D3000#	1	15 FT
		257531001	HOSE-HYD 3/8 X 20 6FS JIC ST/45	1	10 FT
3		257531001	HOSE-HYD 3/8 X 20 6FS JIC ST/45	1	15 FT
		57940719	HOSE-3/8X21 6FSJICST/45D3000#	1	10 FT
4		296280939	HOSE-3/8 X 155 6FS JIC ST/90 3000 PSI	1	15 FT
		296286517	HOSE-3/8 X 127 6FS ST/90 JIC 3000 PSI	1	10 FT
5		296280940	HOSE-3/8X148 6FS JIC ST/90 3000 PSI	1	15 FT
		296286518	HOSE-3/8 X 131 6FS ST/90 JIC 3000 PSI	1	10 FT
6		289119001	HOSE - 3/8 X 24 FSJIC ST/45 3000 PSI	2	10 FT/15 FT
7		257529001	HOSE-HYD 3/8 X 54 6FS JIC ST	1	10 FT/15 FT
8		296280936	HOSE-HYD-.38X74 6FSJIC ST/90 3000PSI	1	10 FT/15 FT
9		296279831	HOSE - 1.25" X 67" 20FSJIC ST/ST 250PSI	1	10 FT/15 FT
10		296279958	HOSE-1-1/4 X 70 20FSJIC ST/45 GMV	1	10 FT/15 FT
11		53843679	HOSE-1/4X52 4FS JIC 2500 PSI	1	10 FT/15 FT
12		296280938	HOSE-HYD-.75X182 12FSJIC ST/ST 3000PSI	1	15 FT
		53845583	HOSE-3/4X163 12FS JIC 3000 PSI	1	10 FT
13		612950001	HOSE - 3/4 X 185 - 3000 PSI	1	10 FT/15 FT
14		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	1	10 FT/15 FT

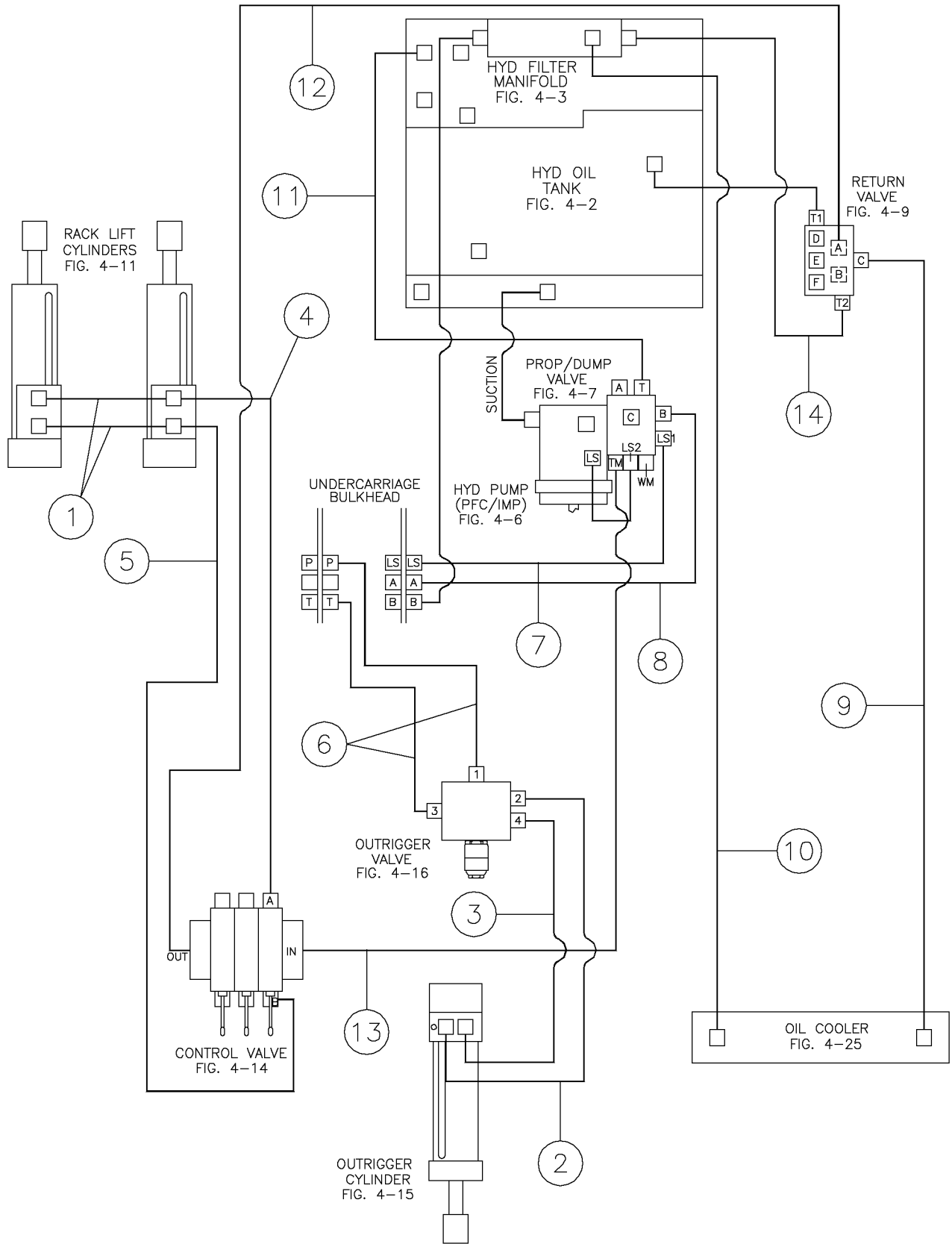
Implement System Fig 12-3r01



Implement System Fig 12-3r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278804001	HOSE-3/8X12 6FSJIC ST/90 M3K	2	10 FT/15 FT
2		57940719	HOSE-3/8X21 6FSJICST/45D3000#	1	15 FT
		257531001	HOSE-HYD 3/8 X 20 6FS JIC ST/45	1	10 FT
3		257531001	HOSE-HYD 3/8 X 20 6FS JIC ST/45	1	10 FT/15 FT
4		296280939	HOSE-3/8 X 155 6FS JIC ST/90 3000 PSI	1	15 FT
		296286517	HOSE-3/8 X 127 6FS ST/90 JIC 3000 PSI	1	10 FT
5		296280940	HOSE-3/8X148 6FS JIC ST/90 3000 PSI	1	15 FT
		296286518	HOSE-3/8 X 131 6FS ST/90 JIC 3000 PSI	1	10 FT
6		289119001	HOSE - 3/8 X 24 FSJIC ST/45 3000 PSI	2	10 FT/15 FT
7		257529001	HOSE-HYD 3/8 X 54 6FS JIC ST	1	10 FT/15 FT
8		296280936	HOSE-HYD-.38X74 6FSJIC ST/90 3000PSI	1	10 FT/15 FT
9		296279831	HOSE - 1.25" X 67" 20FSJIC ST/ST 250PSI	1	10 FT/15 FT
10		296279958	HOSE-1-1/4 X 70 20FSJIC ST/45 GMV	1	10 FT/15 FT
11		53843679	HOSE-1/4X52 4FS JIC 2500 PSI	1	10 FT/15 FT
12		296280938	HOSE-HYD-.75X182 12FSJIC ST/ST 3000PSI	1	15 FT
		53845583	HOSE-3/4X163 12FS JIC 3000 PSI	1	10 FT
13		612950001	HOSE - 3/4 X 185 - 3000 PSI	1	10 FT/15 FT
14		285556001	HOSE - .078 X 18 4 FS JIC ST/ST 6900 PSI	1	10 FT/15 FT

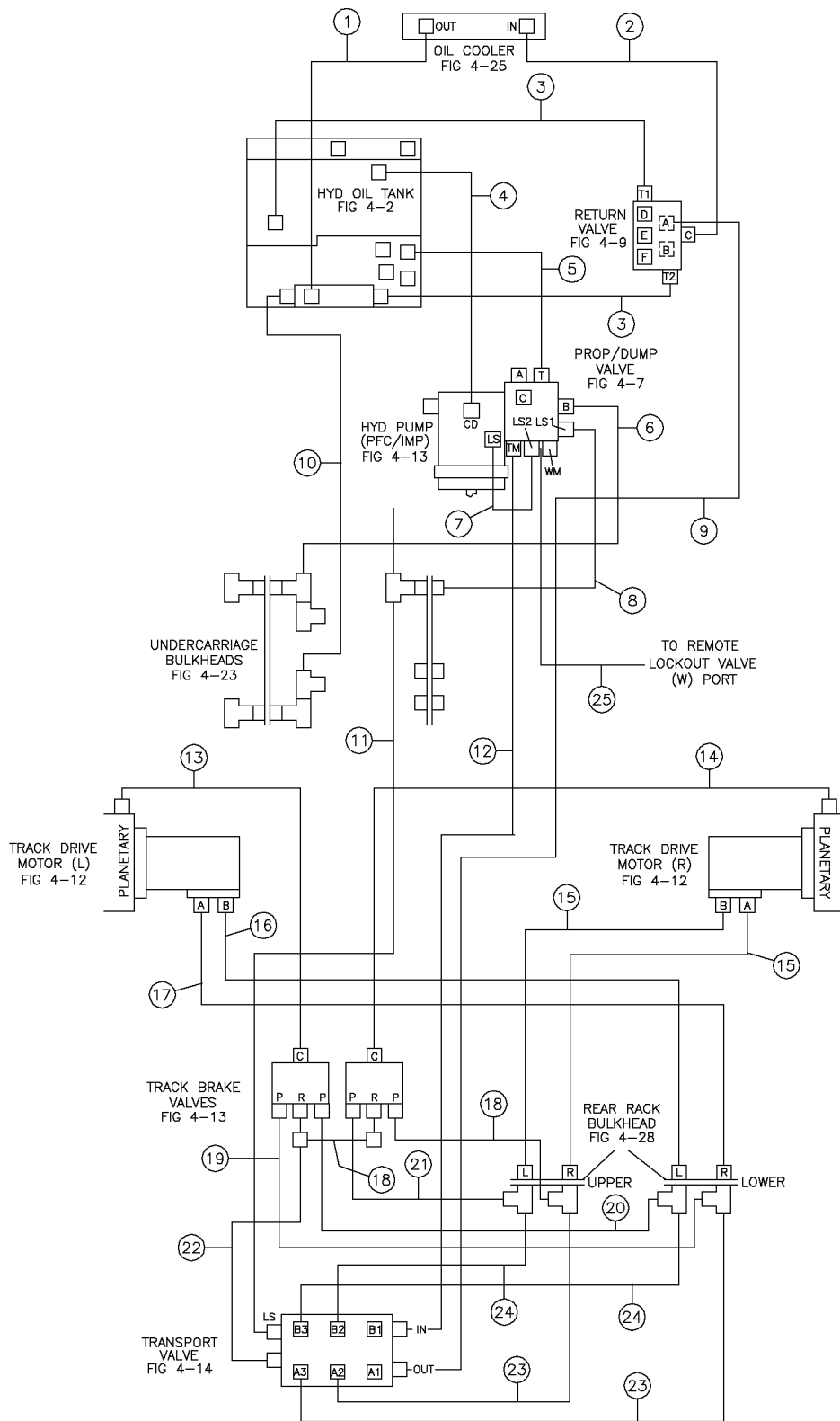
Implement System Fig 12-3



Implement System Fig 12-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		278804001	HOSE-3/8X12 6FSJIC ST/90 M3K	2	
2		57940719	HOSE-3/8X21 6FSJICST/45D3000#	1	
3		257531001	HOSE-HYD 3/8 X 20 6FS JIC ST/45	1	
4		296280940	HOSE-HYD-.25X134 4FSJIC ST/90 3000 PSI	1	
5		296280939	HOSE-HYD-.38X155 6FSJIC ST/90 3000PSI	1	
6		289119001	HOSE - 3/8 X 24 FSJIC ST/45 3000 PSI	2	
7		257529001	HOSE-HYD 3/8 X 54 6FS JIC ST	1	
8		296280936	HOSE-HYD-.38X74 6FSJIC ST/90 3000PSI	1	
9		296279831	HOSE - 1.25" X 67" 20FSJIC ST/ST 250PSI	1	
10		296279958	HOSE-1-1/4 X 70 20FSJIC ST/45 GMV	1	
11		53843679	HOSE-1/4X52 4FS JIC 2500 PSI	1	
12		296280938	HOSE-HYD-.75X182 12FSJIC ST/ST 3000PSI	1	
13		612950001	HOSE - 3/4 X 185 - 3000 PSI	1	

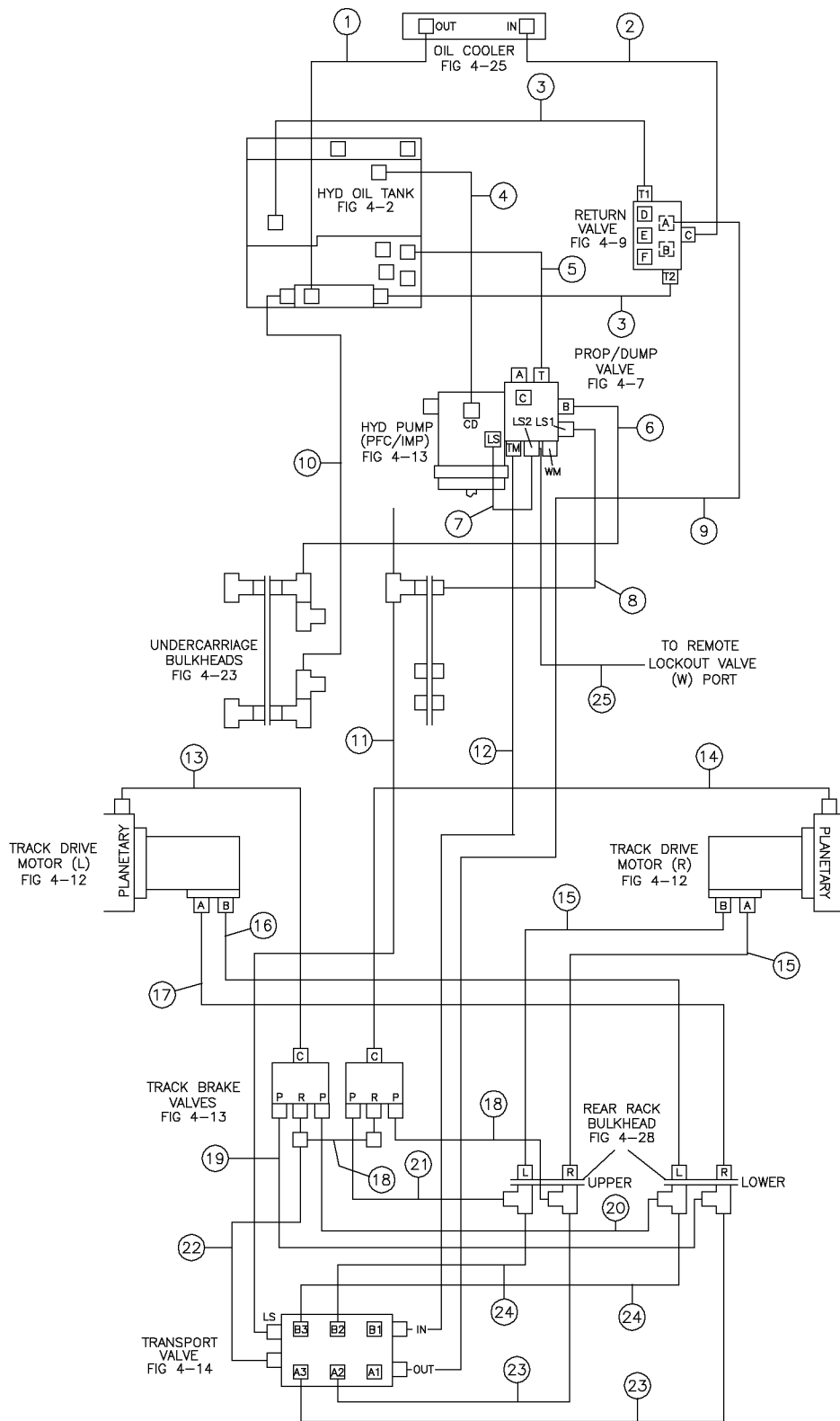
Ground Drive System Fig 12-4r03



Ground Drive System Fig 12-4r03

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		296279958	HOSE-1 1/4X70-20FSJIC-ST/45-GMV	1	10 FT/15 FT
2		296279831	HOSE-1 1/4 X 67-20FSJIC-ST/ST-250	1	10 FT/15 FT
3		278794001	HOSE-1X12 W/ NO ENDS 250 PSI	2	10 FT/15 FT
4		296256885	HOSE-1/2X30-8FSJIC-ST/90-M3K	1	10 FT/15 FT
5		296286525	HOSE-1/4 X 43 4FS ST/ST JIC 2500 PSI	1	10 FT/15 FT
6		296280936	HOSE-3/8X74 6FS JIC ST/90 3000	1	10 FT/15 FT
7		57940445	HOSE-3/8X20 6FS JIC 3000 PSI	1	10 FT/15 FT
8		257529001	HOSE-3/8 X 54 6FS JIC ST	1	10 FT/15 FT
9		296280938	HOSE-3/4X182-12FS-ST/ST-3000	1	15 FT
		53845583	HOSE-3/4 X 163 12FS ST/ST JIC 3000 PSI	1	10 FT
10		296286516	HOSE-3/8X65 6FS ST/90 JIC 3000 PSI	1	10 FT/15 FT
11		296284003	HOSE-1/4X152-4FSJ-ST/90-3000	1	15 FT
		296280241	HOSE - 1/4 X 122 4FS ST/90 JIC 3000 PSI	1	10 FT
12		612950001	HOSE-3/4X185-12FS-ST/ST-3000	1	10 FT/15 FT
13		296280942	HOSE-1/4X134-4FSJ-ST/90-3000	1	15 FT
		296286519	HOSE-1/4 X 114 4FS ST/90 JIC 3000 PSI	1	10 FT
14		296280943	HOSE-1/4X160-4FSJ-ST/90-3000	1	15 FT
		296286520	HOSE-1-4 X 133 4FS ST/90 JIC 3000 PSI	1	10 FT
15		296280954	HOSE-3/4X94-12FS-JIC-3000	2	15 FT
		53845475	HOSE-3/4 X 94 12FS ST/ST JIC 3000 PSI	2	10 FT
16		53845475	HOSE-3/4X121-12FS-JIC-ST/ST-3000	1	15 FT
		53845597	HOSE-3/4 X 68 12FS ST/ST JIC 3000 PSI	1	10 FT
17		296280951	HOSE-3/4X97-12FS-JIC-ST/ST-3000	1	15 FT
		53845597	HOSE-3/4 X 68 12FS ST/ST JIC 3000 PSI	1	10 FT
18		296280952	HOSE-1/4X52-4FS-JIC-ST/90-2500	2	15 FT
		296280239	HOSE-1/4 X 12 4FS ST/45 JIC PSI 3000	2	10 FT
19		243936001	HOSE-1/4X33 4FS ST/90 3000 PSI	1	10 FT/15 FT
20		159745001	HOSE-1/4X29-4FSJIC-ST/90-3000	1	10 FT/15 FT
21		240750001	HOSE-1/4X21-4FSJIC-ST/90-3000	1	10 FT/15 FT
22		275248001	HOSE-1/4X14 4FSJIC ST/90 M3K	1	10 FT/15 FT
23		296284002	HOSE-3/4X31-12FSJIC-ST/90-3000	2	10 FT/15 FT
24		53845789	HOSE-3/4X28-12FSJIC-ST/90-3000	2	10 FT/15 FT
25		53843183	HOSE-1/4X18 4FS JIC 3000 PSI	1	10 FT/15 FT

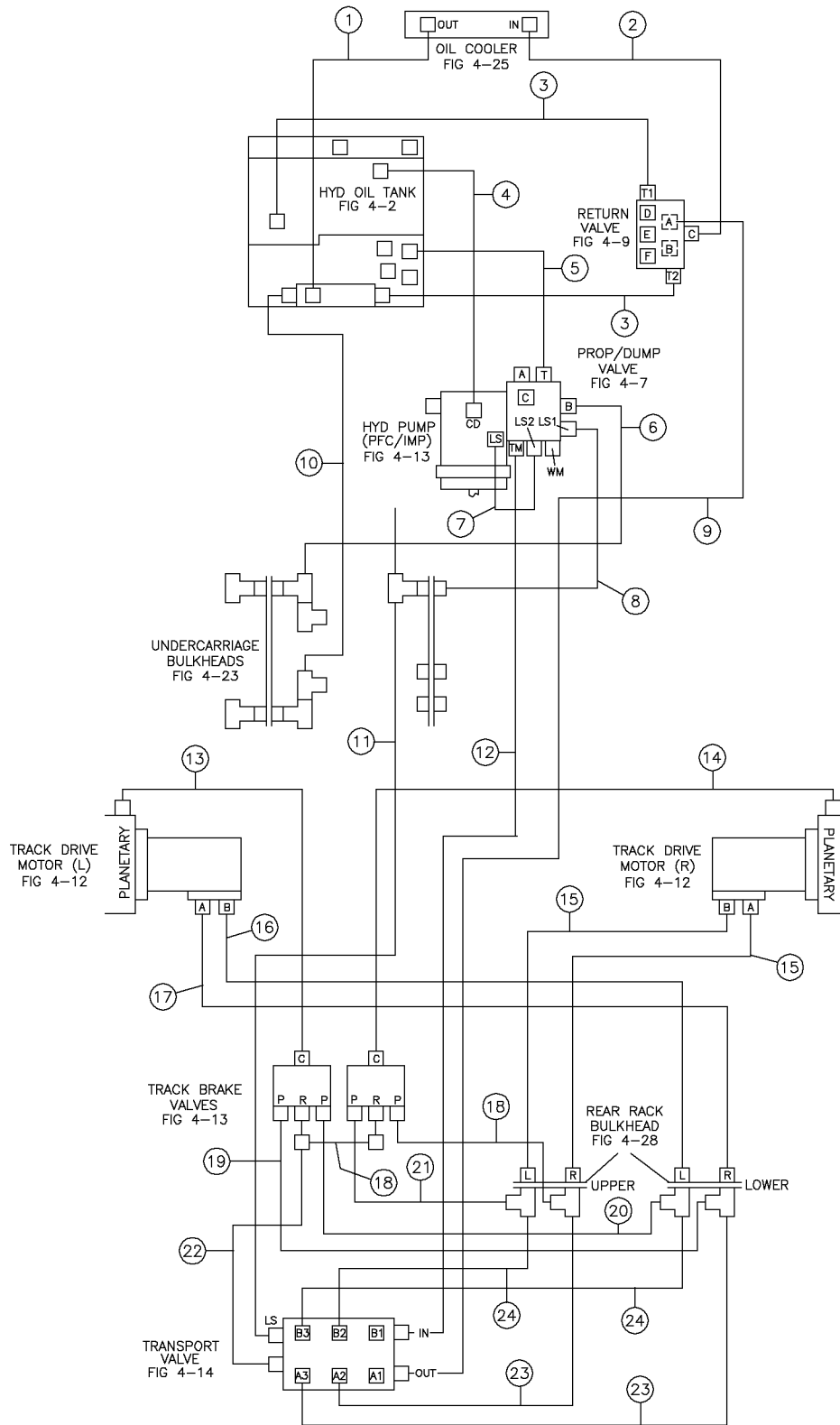
Ground Drive System Fig 12-4r02



Ground Drive System Fig 12-4r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279958	HOSE-1 1/4X70-20FSJIC-ST/45-GMV	1	10 FT/15 FT
2		296279831	HOSE-1 1/4 X 67-20FSJIC-ST/ST-250	1	10 FT/15 FT
3		278794001	HOSE-1X12 W/ NO ENDS 250 PSI	2	10 FT/15 FT
4		296256885	HOSE-1/2X30-8FSJIC-ST/90-M3K	1	10 FT/15 FT
5		296286525	HOSE-1/4 X 43 4FS ST/ST JIC 2500 PSI	1	10 FT/15 FT
6		296280936	HOSE-3/8X74 6FS JIC ST/90 3000	1	10 FT/15 FT
7		57940445	HOSE-3/8X20 6FS JIC 3000 PSI	1	10 FT/15 FT
8		257529001	HOSE-3/8 X 54 6FS JIC ST	1	10 FT/15 FT
9		296280938	HOSE-3/4X182-12FS-ST/ST-3000	1	15 FT
		53845583	HOSE-3/4 X 163 12FS ST/ST JIC 3000 PSI	1	10 FT
10		296286516	HOSE-3/8X65 6FS ST/90 JIC 3000 PSI	1	10 FT/15 FT
11		296284003	HOSE-1/4X152-4FSJ-ST/90-3000	1	10 FT/15 FT
12		612950001	HOSE-3/4X185-12FS-ST/ST-3000	1	10 FT/15 FT
13		296280942	HOSE-1/4X134-4FSJ-ST/90-3000	1	15 FT
		296286519	HOSE-1/4 X 114 4FS ST/90 JIC 3000 PSI	1	10 FT
14		296280943	HOSE-1/4X160-4FSJ-ST/90-3000	1	15 FT
		296286520	HOSE-1-4 X 133 4FS ST/90 JIC 3000 PSI	1	10 FT
15		296280954	HOSE-3/4X94-12FS-JIC-3000	2	15 FT
		53845475	HOSE-3/4 X 94 12FS ST/ST JIC 3000 PSI	2	10 FT
16		53845475	HOSE-3/4X121-12FS-JIC-ST/ST-3000	1	15 FT
		53845597	HOSE-3/4 X 68 12FS ST/ST JIC 3000 PSI	1	10 FT
17		296280951	HOSE-3/4X97-12FS-JIC-ST/ST-3000	1	15 FT
		53845597	HOSE-3/4 X 68 12FS ST/ST JIC 3000 PSI	1	10 FT
18		296280952	HOSE-1/4X52-4FS-JIC-ST/90-2500	2	10 FT/15 FT
19		243936001	HOSE-1/4X33 4FS ST/90 3000 PSI	1	10 FT/15 FT
20		159745001	HOSE-1/4X29-4FSJIC-ST/90-3000	1	10 FT/15 FT
21		240750001	HOSE-1/4X21-4FSJIC-ST/90-3000	1	10 FT/15 FT
22		275248001	HOSE-1/4X14 4FSJIC ST/90 M3K	1	10 FT/15 FT
23		296284002	HOSE-3/4X31-12FSJIC-ST/90-3000	2	10 FT/15 FT
24		53845789	HOSE-3/4X28-12FSJIC-ST/90-3000	2	10 FT/15 FT
25		53843183	HOSE-1/4X18 4FS JIC 3000 PSI	1	10 FT/15 FT

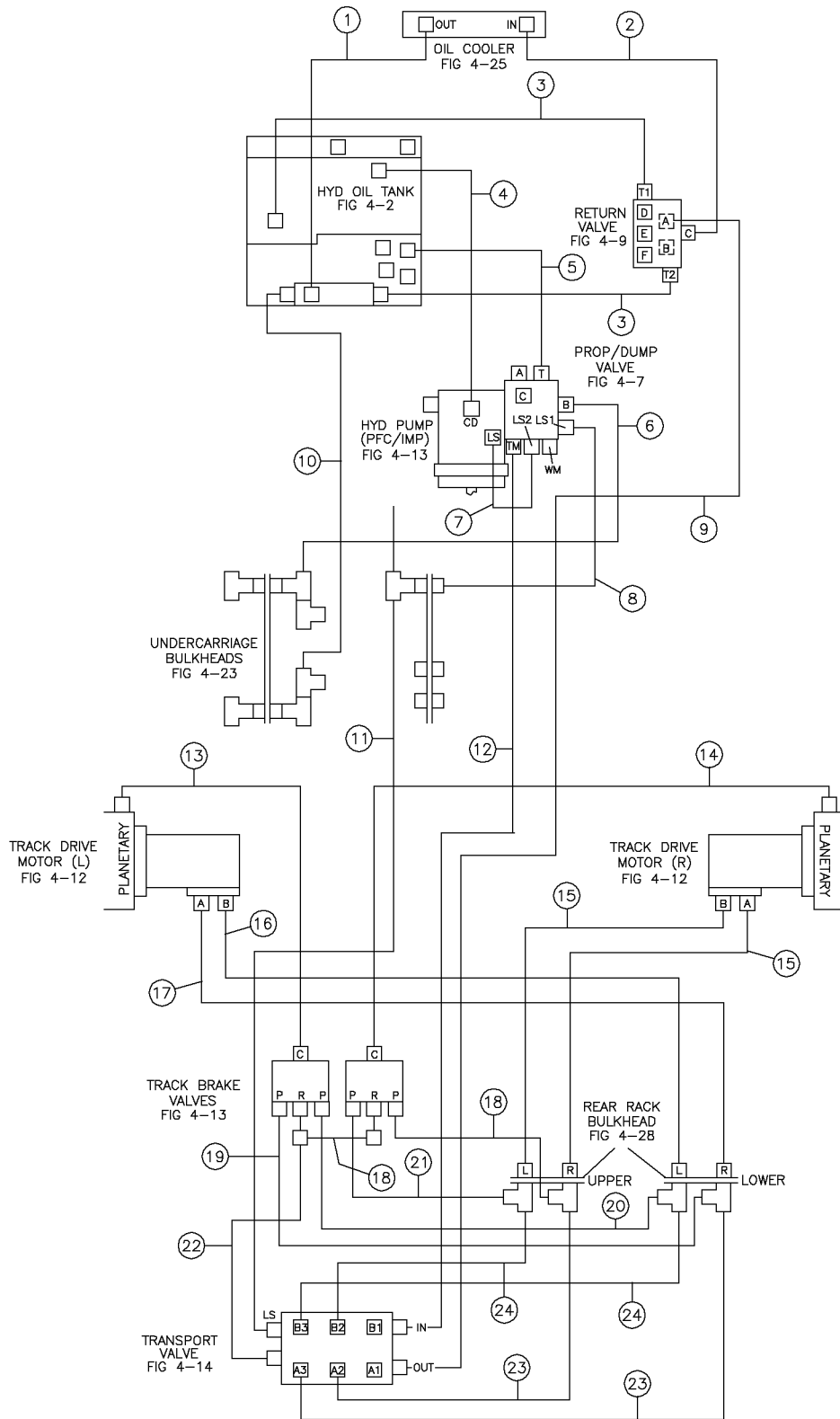
Ground Drive System Fig 12-4r01



Ground Drive System Fig 12-4r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279958	HOSE-1 1/4X70-20FSJIC-ST/45-GMV	1	10 FT/15 FT
2		296279831	HOSE-1 1/4 X 67-20FSJIC-ST/ST-250	1	10 FT/15 FT
3		278794001	HOSE-1X12 W/ NO ENDS 250 PSI	2	10 FT/15 FT
4		296256885	HOSE-1/2X30-8FSJIC-ST/90-M3K	1	10 FT/15 FT
5		296286525	HOSE-1/4 X 43 4FS ST/ST JIC 2500 PSI	1	10 FT/15 FT
6		296280936	HOSE-3/8X74 6FS JIC ST/90 3000	1	10 FT/15 FT
7		57940445	HOSE-3/8X20 6FS JIC 3000 PSI	1	10 FT/15 FT
8		257529001	HOSE-3/8 X 54 6FS JIC ST	1	10 FT/15 FT
9		296280938	HOSE-3/4X182-12FS-ST/ST-3000	1	15 FT
		53845583	HOSE-3/4 X 163 12FS ST/ST JIC 3000 PSI	1	10 FT
10		296286516	HOSE-3/8X65 6FS ST/90 JIC 3000 PSI	1	10 FT/15 FT
11		296284003	HOSE-1/4X152-4FSJ-ST/90-3000	1	10 FT/15 FT
12		612950001	HOSE-3/4X185-12FS-ST/ST-3000	1	10 FT/15 FT
13		296280942	HOSE-1/4X134-4FSJ-ST/90-3000	1	15 FT
		296286519	HOSE-1/4 X 114 4FS ST/90 JIC 3000 PSI	1	10 FT
14		296280943	HOSE-1/4X160-4FSJ-ST/90-3000	1	15 FT
		296286520	HOSE-1-4 X 133 4FS ST/90 JIC 3000 PSI	1	10 FT
15		296280954	HOSE-3/4X94-12FS-JIC-3000	2	15 FT
		53845475	HOSE-3/4 X 94 12FS ST/ST JIC 3000 PSI	2	10 FT
16		53845475	HOSE-3/4X121-12FS-JIC-ST/ST-3000	1	15 FT
		53845597	HOSE-3/4 X 68 12FS ST/ST JIC 3000 PSI	1	10 FT
17		296280951	HOSE-3/4X97-12FS-JIC-ST/ST-3000	1	15 FT
		53845597	HOSE-3/4 X 68 12FS ST/ST JIC 3000 PSI	1	10 FT
18		296280952	HOSE-1/4X52-4FS-JIC-ST/90-2500	2	10 FT/15 FT
19		243936001	HOSE-1/4X33 4FS ST/90 3000 PSI	1	10 FT/15 FT
20		159745001	HOSE-1/4X29-4FSJIC-ST/90-3000	1	10 FT/15 FT
21		240750001	HOSE-1/4X21-4FSJIC-ST/90-3000	1	10 FT/15 FT
22		275248001	HOSE-1/4X14 4FSJIC ST/90 M3K	1	10 FT/15 FT
23		296284002	HOSE-3/4X31-12FSJIC-ST/90-3000	2	10 FT/15 FT
24		53845789	HOSE-3/4X28-12FSJIC-ST/90-3000	2	10 FT/15 FT

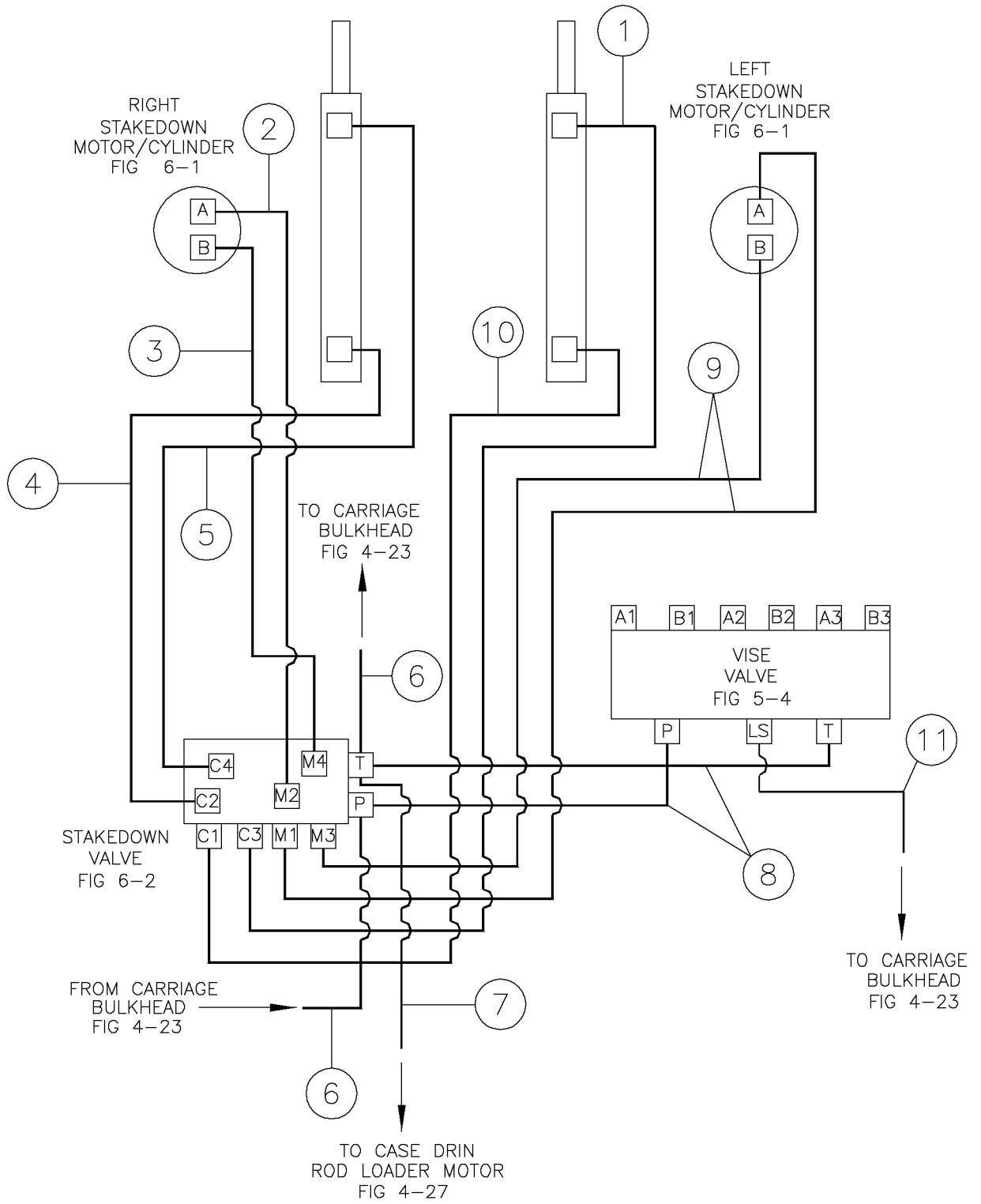
Ground Drive System Fig 12-4



Ground Drive System Fig 12-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296279958	HOSE-1 1/4X70-20FSJIC-ST/45-GMV	1	
2		296279831	HOSE-1 1/4 X 67-20FSJIC-ST/ST-250	1	
3		296273675	HOSE-1 X 15.5 - GMV	2	
4		296256885	HOSE-1/2X30-8FSJIC-ST/90-M3K	1	
5		53843679	HOSE-1/4X52 4FS JIC 2500 PSI	1	
6		296280936	HOSE-3/8X74 6FS JIC ST/90 3000	1	
7		57940445	HOSE-3/8X20 6FS JIC 3000 PSI	1	
8		257529001	HOSE-3/8 X 54 6FS JIC ST	1	
9		296280938	HOSE-3/4X182-12FS-ST/ST-3000	1	
10		57940585	HOSE-3/8X65-6FSJ-ST/ST-3000PSI	1	
11		296284003	HOSE-1/4X152-4FSJ-ST/90-3000	1	
12		612950001	HOSE-3/4X185-12FS-ST/ST-3000	1	
13		296280942	HOSE-1/4X134-4FSJ-ST/90-3000	1	
14		296280943	HOSE-1/4X160-4FSJ-ST/90-3000	1	
15		296280954	HOSE-3/4X94-12FS-JIC-3000	2	
16		53845475	HOSE-3/4X121-12FS-JIC-ST/ST-3000	1	
17		296280951	HOSE-3/4X97-12FS-JIC-ST/ST-3000	1	
18		296280952	HOSE-1/4X52-4FS-JIC-ST/90-2500	2	
19		243936001	HOSE-1/4X33 4FS ST/90 3000 PSI	1	
20		159745001	HOSE-1/4X29-4FSJIC-ST/90-3000	1	
21		240750001	HOSE-1/4X21-4FSJIC-ST/90-3000	1	
22		275248001	HOSE-1/4X14 4FSJIC ST/90 M3K	1	
23		296284002	HOSE-3/4X31-12FSJIC-ST/90-3000	2	
24		53845789	HOSE-3/4X28-12FSJIC-ST/90-3000	2	

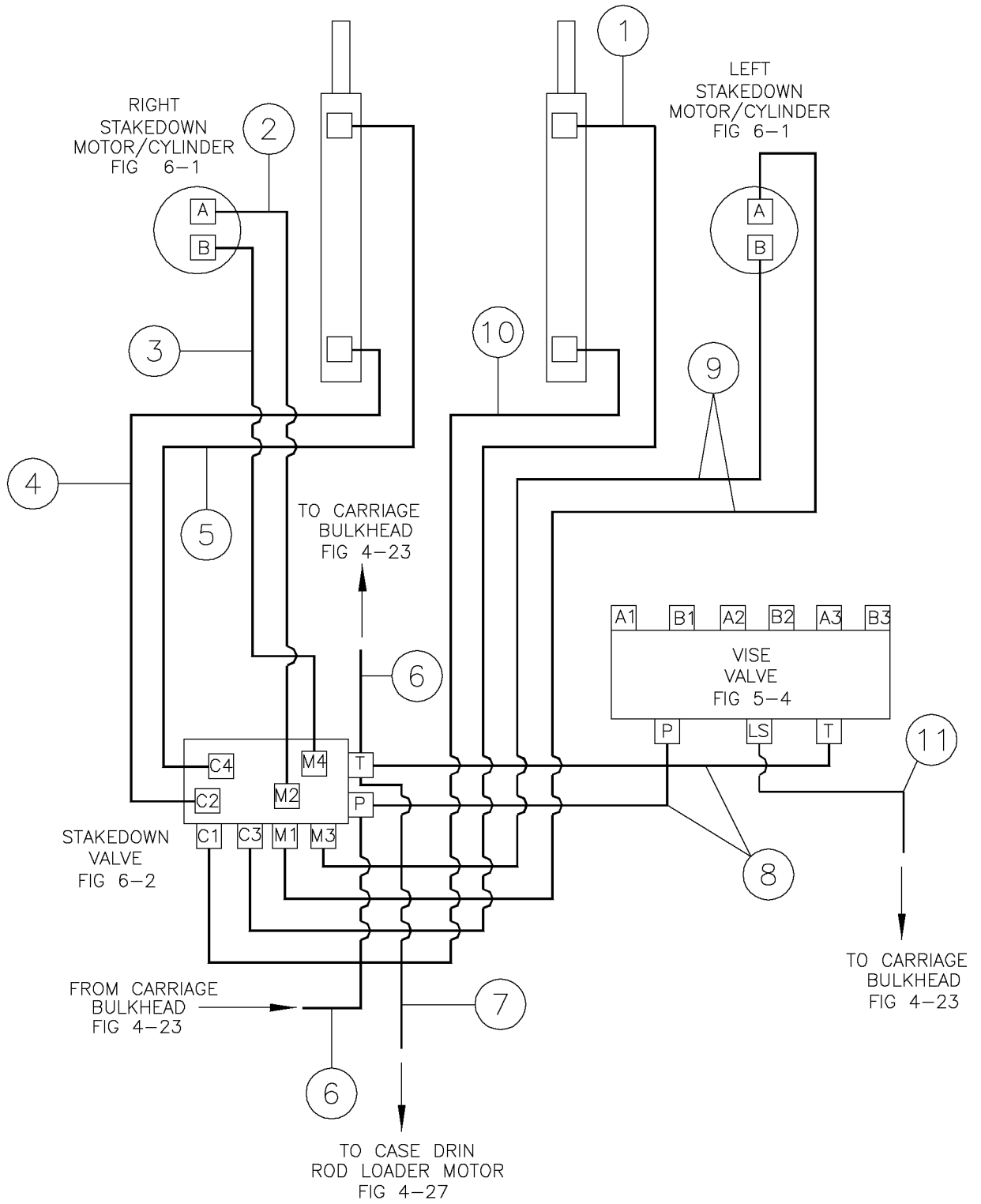
Stakedown Fig 12-5r02



Stakedown Fig 12-5r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Update In Illustration & Parts List.
1		232125001	HOSE - HYD - 3/8 X 22 6FS JIC ST/ST	1	10 FT/15 FT
2		278840001	HOSE-3/8X90 6FSJIC ST/90 M3K	1	10 FT/15 FT
3		278843001	HOSE-3/8X92 6FSJIC ST/90 M3K	1	10 FT/15 FT
4		57940259	HOSE-3/8X42 6FS JIC 3000 PSI	1	10 FT/15 FT
5		57940619	HOSE-3/8X49 6FS JIC ST/90	1	15 FT
		296280238	HOSE-3/8 X 49 6FS ST/90 JIC PSI 3000	1	10 FT
6		261377001	HOSE-HYD-.38X169-6FSJ-ST/90-3000PSI-M3K	2	15 FT (P And T Port)
		296286535	HOSE-3/8 X 150 6FS ST/90 JIC 3000 PSI	2	10 FT (T Port And P)
7		296284027	1/4X51 4FS ST/90	1	10 FT/15 FT
8		279052001	HOSE-3/8 X 54 FSJIC X FSJIC 90	2	10 FT/15 FT
9		278841001	HOSE-3/8X63 6FSJIC ST/90 M3K	2	10 FT/15FT
10		278271001	HOSE-3/8X17 6 FSJIC ST-90 M2T	1	10 FT/15 FT
11		296284025	HOSE-3/8X174 6FS JIC ST/45	1	15 FT
		296286522	HOSE-3/8 X 151 6FS JIC 3000 PSI	1	10 FT

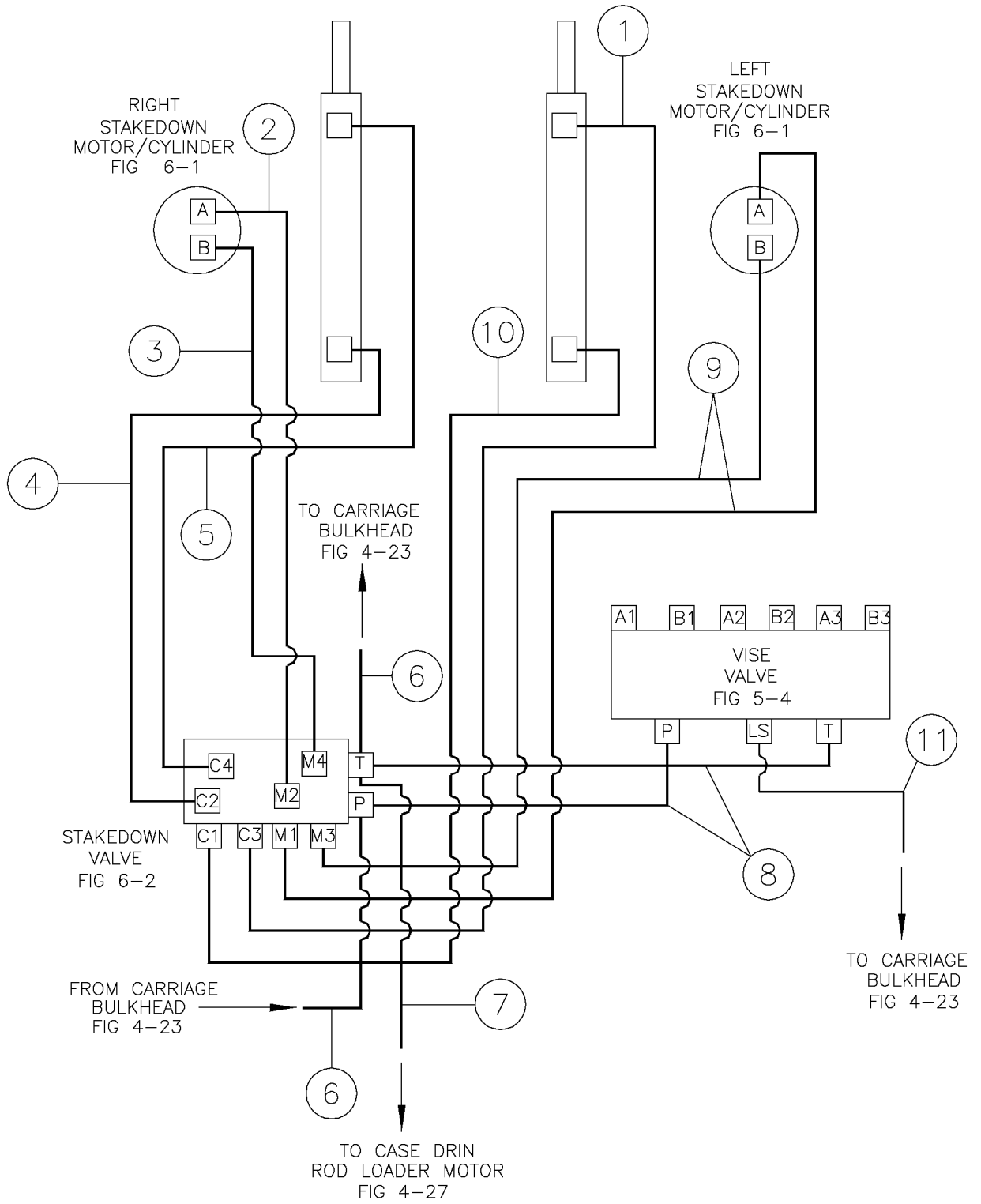
Stakedown Fig 12-5r01



Stakedown Fig 12-5r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		232125001	HOSE - HYD - 3/8 X 22 6FS JIC ST/ST	1	10 FT/15 FT
2		278840001	HOSE-3/8X90 6FSJIC ST/90 M3K	1	10 FT/15 FT
3		278843001	HOSE-3/8X92 6FSJIC ST/90 M3K	1	10 FT/15 FT
4		57940259	HOSE-3/8X42 6FS JIC 3000 PSI	1	10 FT/15 FT
5		57940619	HOSE-3/8X49 6FS JIC ST/90	1	10 FT/15 FT
6		261377001	HOSE-HYD-.38X169-6FSJ-ST/90-3000PSI-M3K	2	15 FT (P And T Port)
		296286534	HOSE-3/8 X 148 6FS ST/90 JIC 3000 PSI	1	10 FT (P Port)
		296286535	HOSE-3/8 X 150 6FS ST/90 JIC 3000 PSI	1	10 FT (T Port)
7		296284027	1/4X51 4FS ST/90	1	10 FT/15 FT
8		279052001	HOSE-3/8 X 54 FSJIC X FSJIC 90	2	10 FT/15 FT
9		278841001	HOSE-3/8X63 6FSJIC ST/90 M3K	2	10 FT/15FT
10		278271001	HOSE-3/8X17 6 FSJIC ST-90 M2T	1	10 FT/15 FT
11		296284025	HOSE-3/8X174 6FS JIC ST/45	1	15 FT
		296286522	HOSE-3/8 X 151 6FS JIC 3000 PSI	1	10 FT

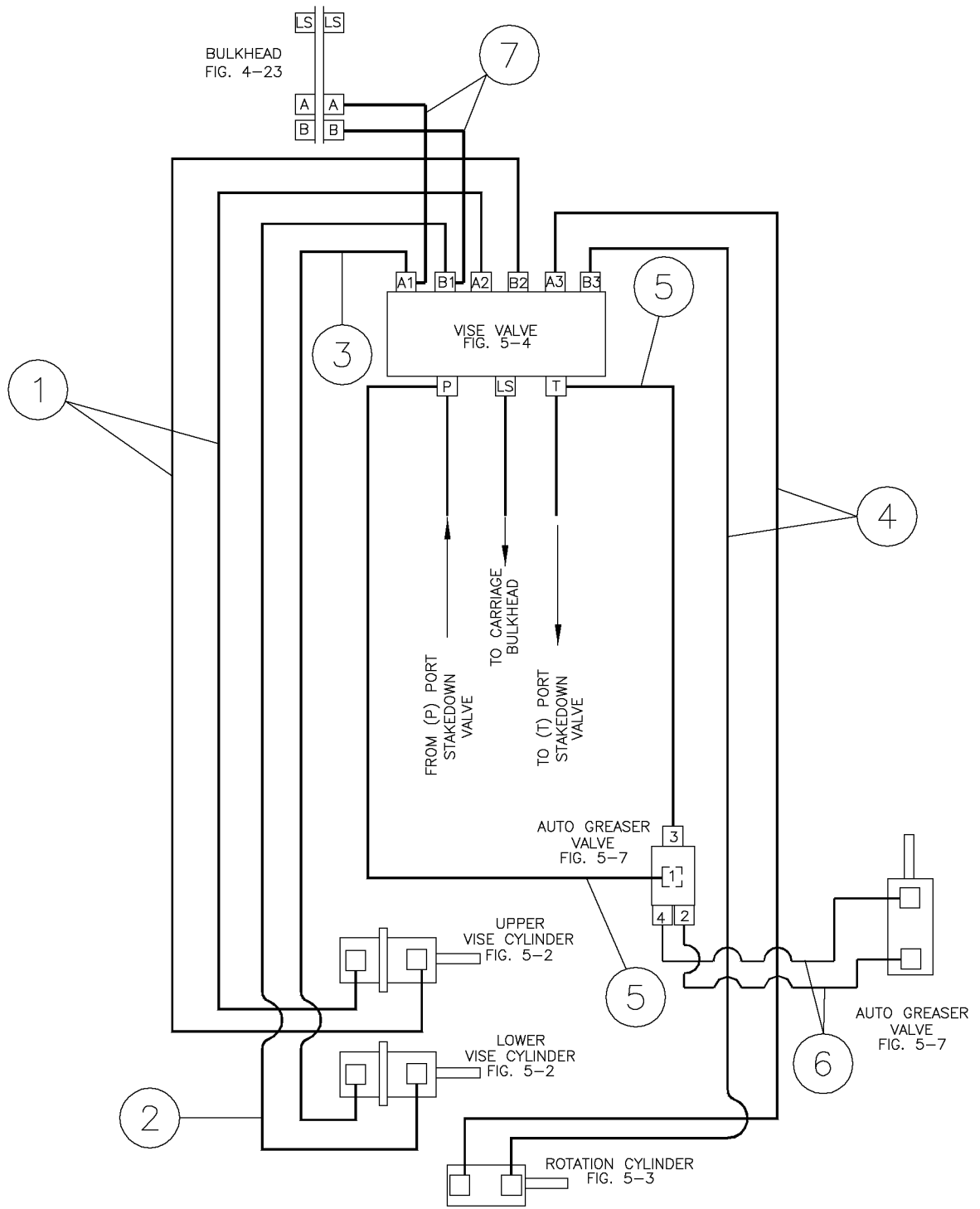
Stakedown Fig 12-5



Stakedown Fig 12-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		232125001	HOSE - HYD - 3/8 X 22 6FS JIC ST/ST	1	
2		278840001	HOSE-3/8X90 6FSJIC ST/90 M3K	1	
3		278843001	HOSE-3/8X92 6FSJIC ST/90 M3K	1	
4		57940259	HOSE-3/8X42 6FS JIC 3000 PSI	1	
5		57940619	HOSE-3/8X49 6FS JIC ST/90	1	
6		261377001	HOSE-HYD-.38X169-6FSJ-ST/90-3000PSI-M3K	2	
7		296284027	1/4X51 4FS ST/90	1	
8		279052001	HOSE-3/8 X 54 FSJIC X FSJIC 90	2	
9		278841001	HOSE-3/8X63 6FSJIC ST/90 M3K	2	
10		278271001	HOSE-3/8X17 6 FSJIC ST-90 M2T	1	
11		296284025	HOSE-3/8X174 6FS JIC ST/45		

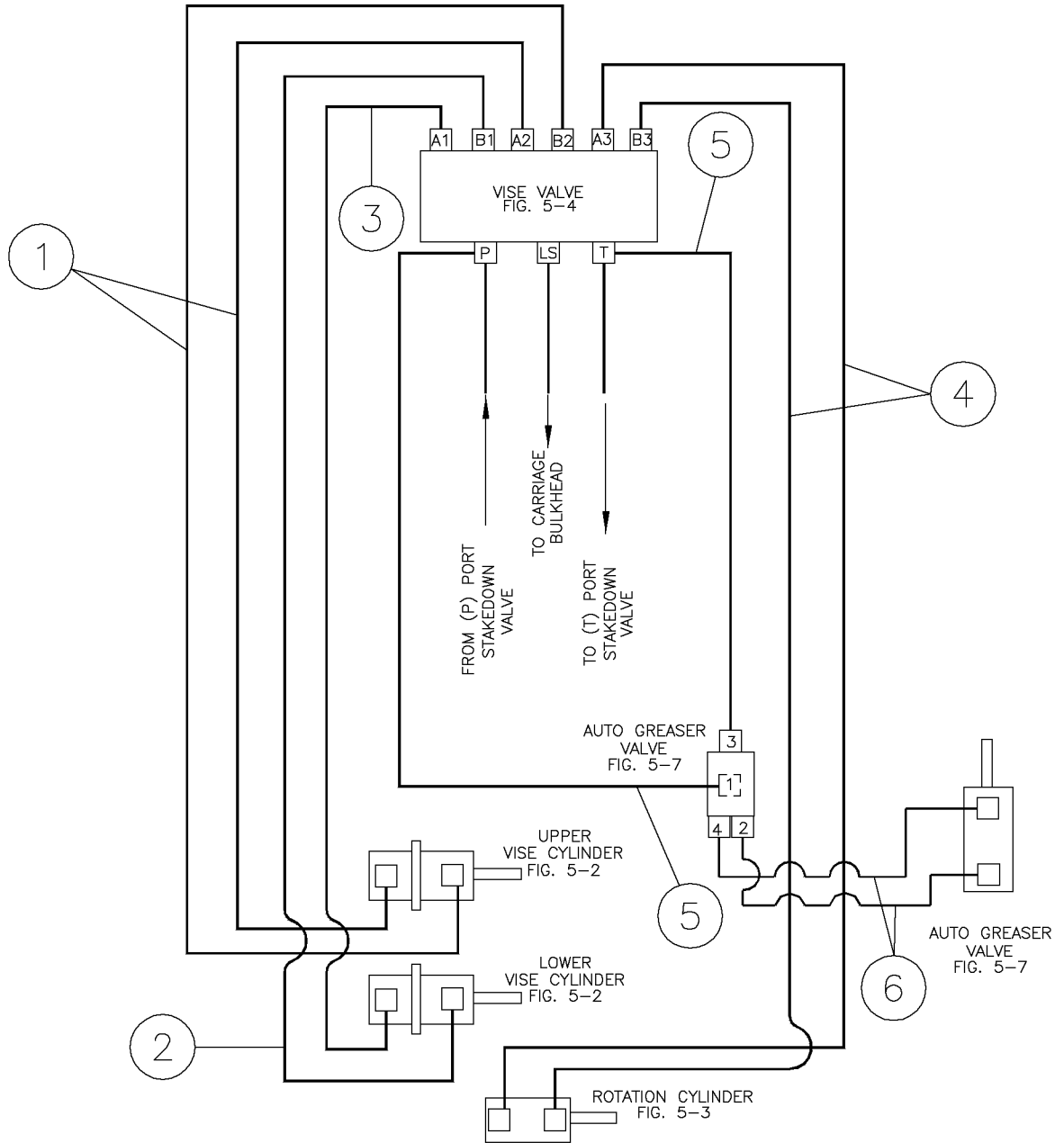
Vise Clamp Fig 12-6r01



Vise Clamp Fig 12-6r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		53843601	HOSE-1/4X17 4FS JIC 3000 PSI	2	10 FT/15 FT
2		53843547	HOSE-1/4X21 4FS JIC 3000 PSI	1	10 FT/15 FT
3		53843183	HOSE-1/4X18 4FS JIC 3000 PSI	1	10 FT/15 FT
4		53843715	HOSE-1/4X23 4FS JIC 3000 PSI	2	10 FT/15 FT
5		159999001	HOSE-HYD-.38X59-6FSJ-ST/90-3000PSI	2	10 FT/15 FT
6		53843195	HOSE-1/4X16 4FS JIC 3000 PSI	2	10 FT/15 FT
		296280998	HOSE - HYD .25X192 4FSJ ST/90 3000 PSI	2	15 FT
7		296286537	HOSE-1/4 X 166 4FS ST/90 JIC 3000 PSI	2	10 FT

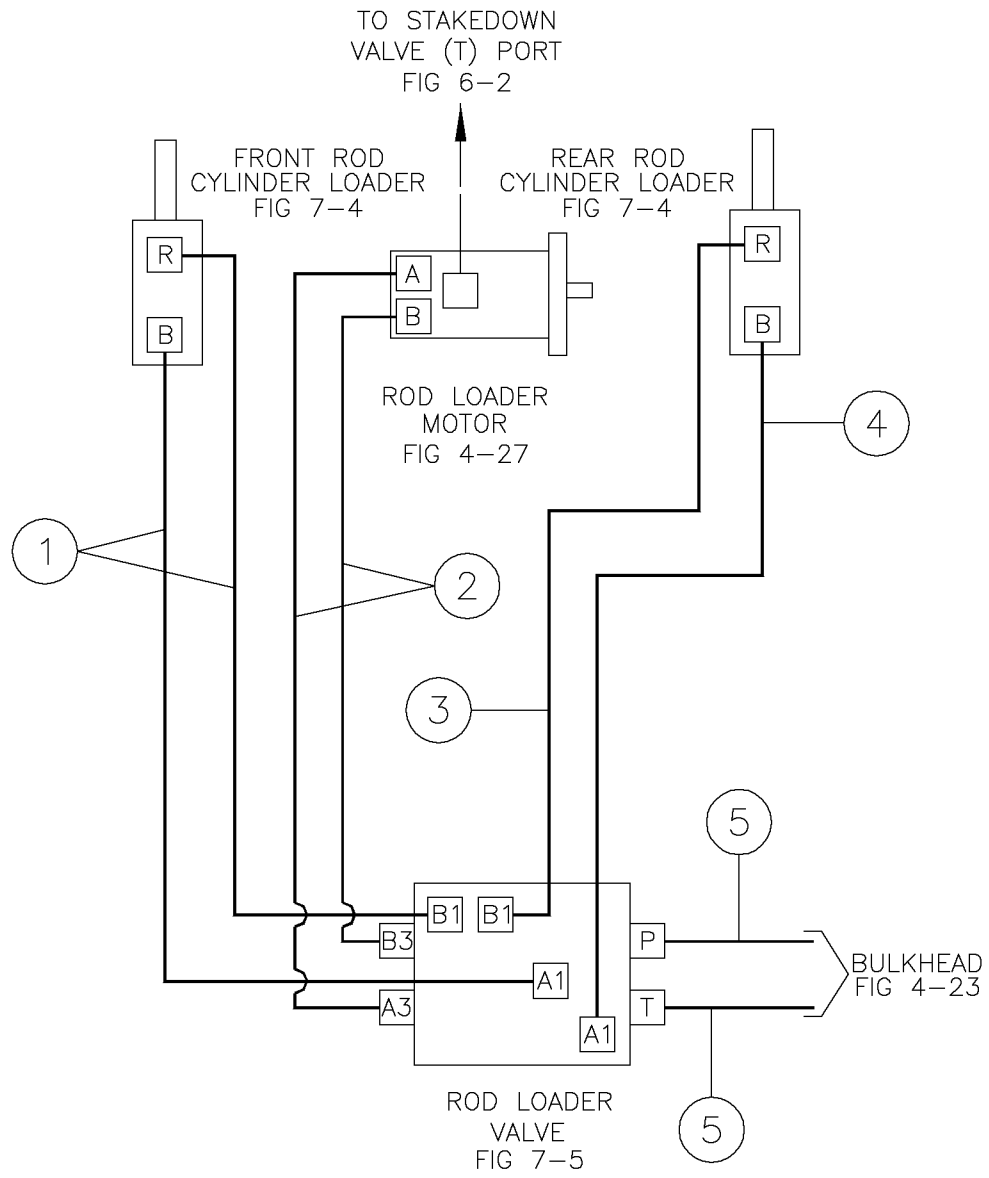
Vise Clamp Fig 12-6



Vise Clamp Fig 12-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		53843601	HOSE-1/4X17 4FS JIC 3000 PSI	2	
2		53843547	HOSE-1/4X21 4FS JIC 3000 PSI	1	
3		53843183	HOSE-1/4X18 4FS JIC 3000 PSI	1	
4		53843715	HOSE-1/4X23 4FS JIC 3000 PSI	2	
5		159999001	HOSE-HYD-.38X59-6FSJ-ST/90-3000PSI	2	
6		53843195	HOSE-1/4X16 4FS JIC 3000 PSI	2	

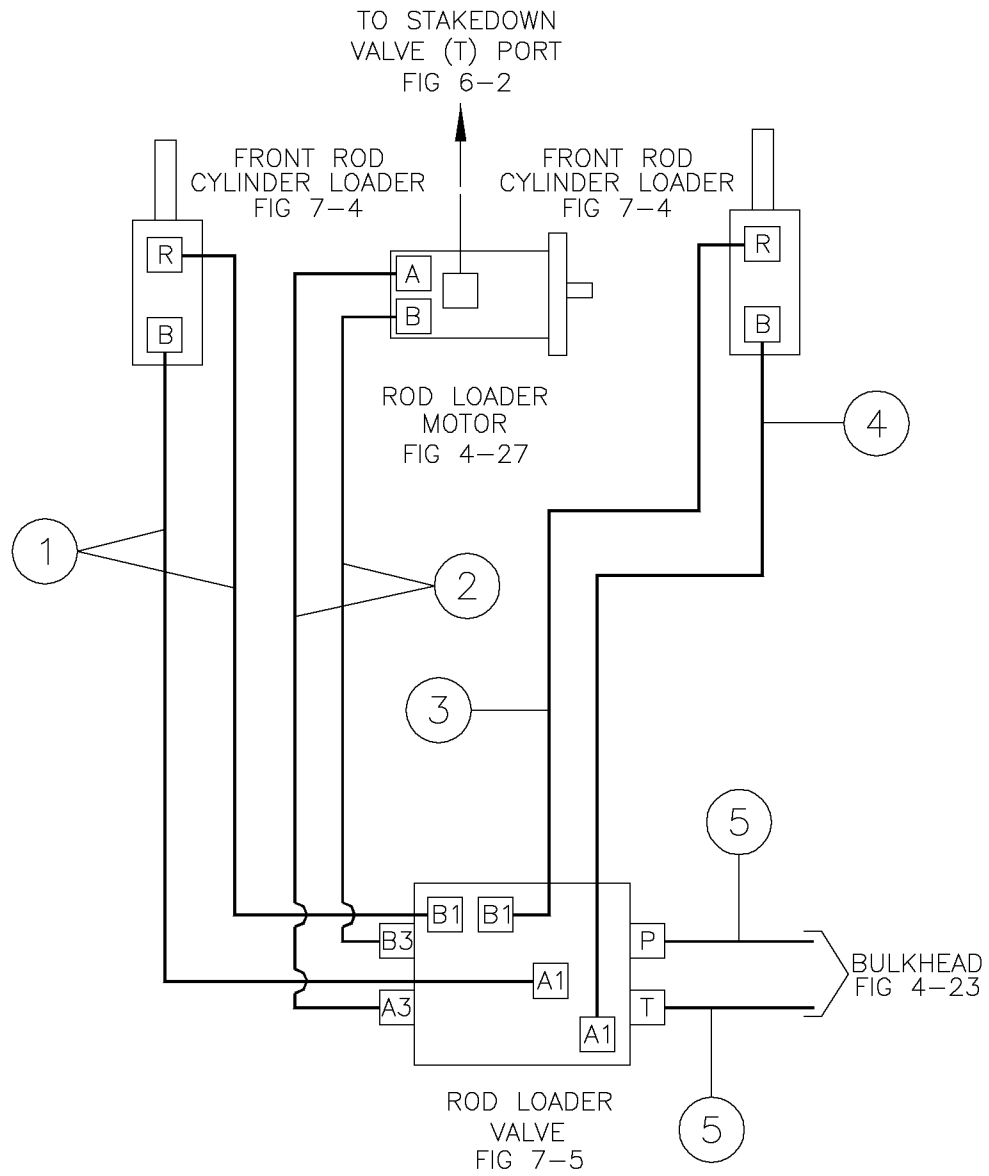
Rod Loader Fig 12-7r02



Rod Loader Fig 12-7r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296284022	HOSE - HYD .38X128 6FSJ ST/90 3000PSI	2	15 FT
		296286524	HOSE-3/8 X 98 6FS JIC 3000 PSI	2	10 FT
2		296284023	HOSE - HYD .38X119 6FSJ ST/90 3000PSI	2	15 FT
		296286523	HOSE - 3/8 X 96 6FS ST/90 JIC 3000 PSI	2	10 FT
3		296284024	HOSE - HYD .38X98 6FSJ ST/90 3000PSI	1	15 FT
		296286521	HOSE-3/8 X 54 6FS ST/90 JIC 3000 PSI	1	10 FT
4		278843001	HOSE-3/8X92 6FSJIC ST/90 M3K	1	15 FT
		279045001	HOSE - 3/8 X 52 6FS ST/90 JIC PSI 3000	1	10 FT
5		257527001	HOSE-HYD 3/8 X 20 6FS JIC ST/90	2	10 FT/15 FT

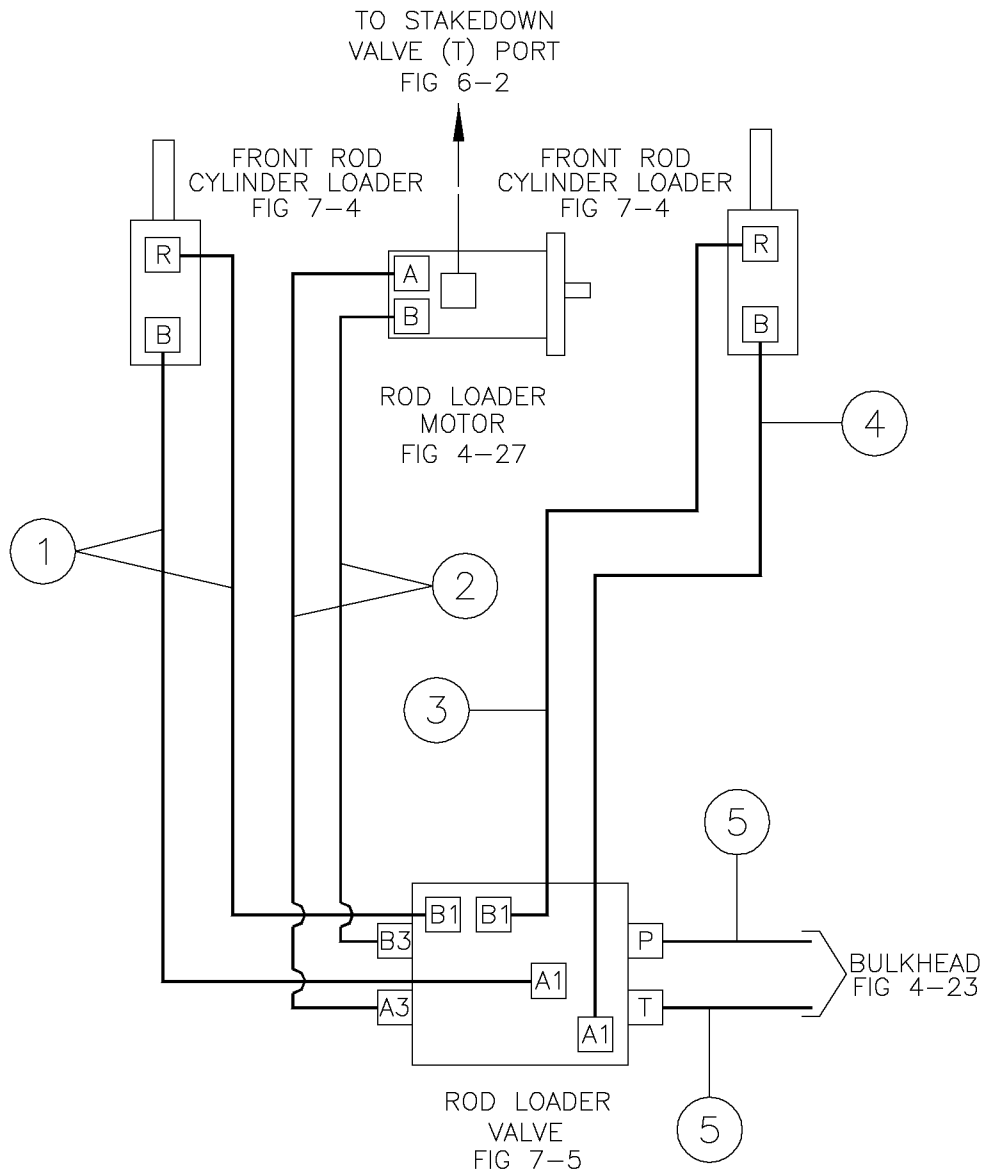
Rod Loader Fig 12-7r01



Rod Loader Fig 12-7r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296284022	HOSE - HYD .38X128 6FSJ ST/90 3000PSI	2	15 FT
		296286524	HOSE-3/8 X 98 6FS JIC 3000 PSI	2	10 FT
2		296284023	HOSE - HYD .38X119 6FSJ ST/90 3000PSI	2	10 FT/15 FT
3		296284024	HOSE - HYD .38X98 6FSJ ST/90 3000PSI	1	15 FT
		296286521	HOSE-3/8 X 54 6FS ST/90 JIC 3000 PSI	1	10 FT
4		278843001	HOSE-3/8X92 6FSJIC ST/90 M3K	1	15 FT
		279045001	HOSE-3/5X52 6FSJIC ST/90 M3K	1	10 FT
5		257527001	HOSE-HYD 3/8 X 20 6FS JIC ST/90	2	10 FT/15 FT

Rod Loader Fig 12-7

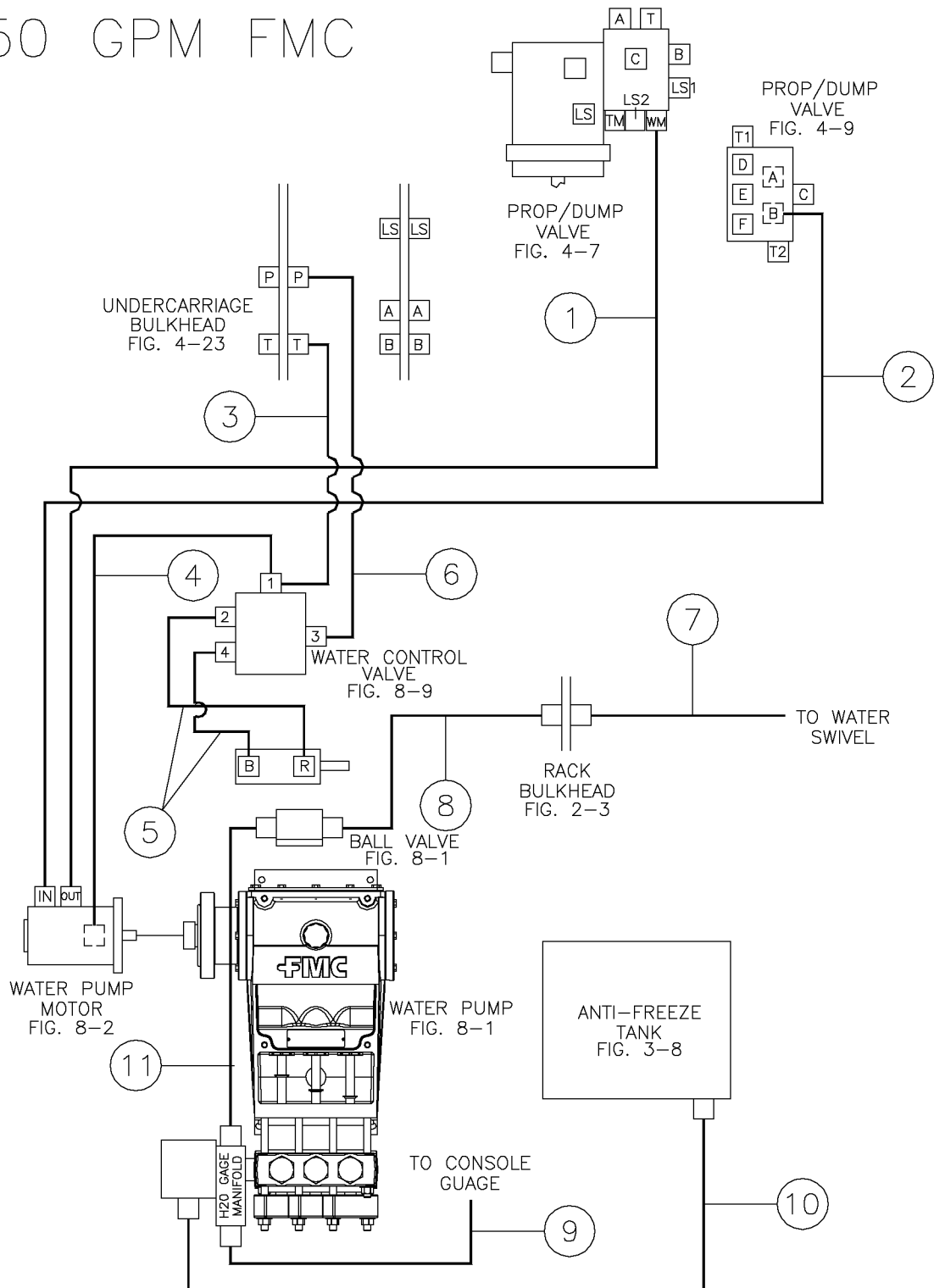


Rod Loader Fig 12-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296284022	HOSE - HYD .38X128 6FSJ ST/90 3000PSI	2	
2		296284023	HOSE - HYD .38X119 6FSJ ST/90 3000PSI	2	
3		296284024	HOSE - HYD .38X98 6FSJ ST/90 3000PSI	1	
4		278843001	HOSE-3/8X92 6FSJIC ST/90 M3K	1	
5		257527001	HOSE-HYD 3/8 X 20 6FS JIC ST/90	2	

Water System-50 GPM FMC Fig 12-8r02

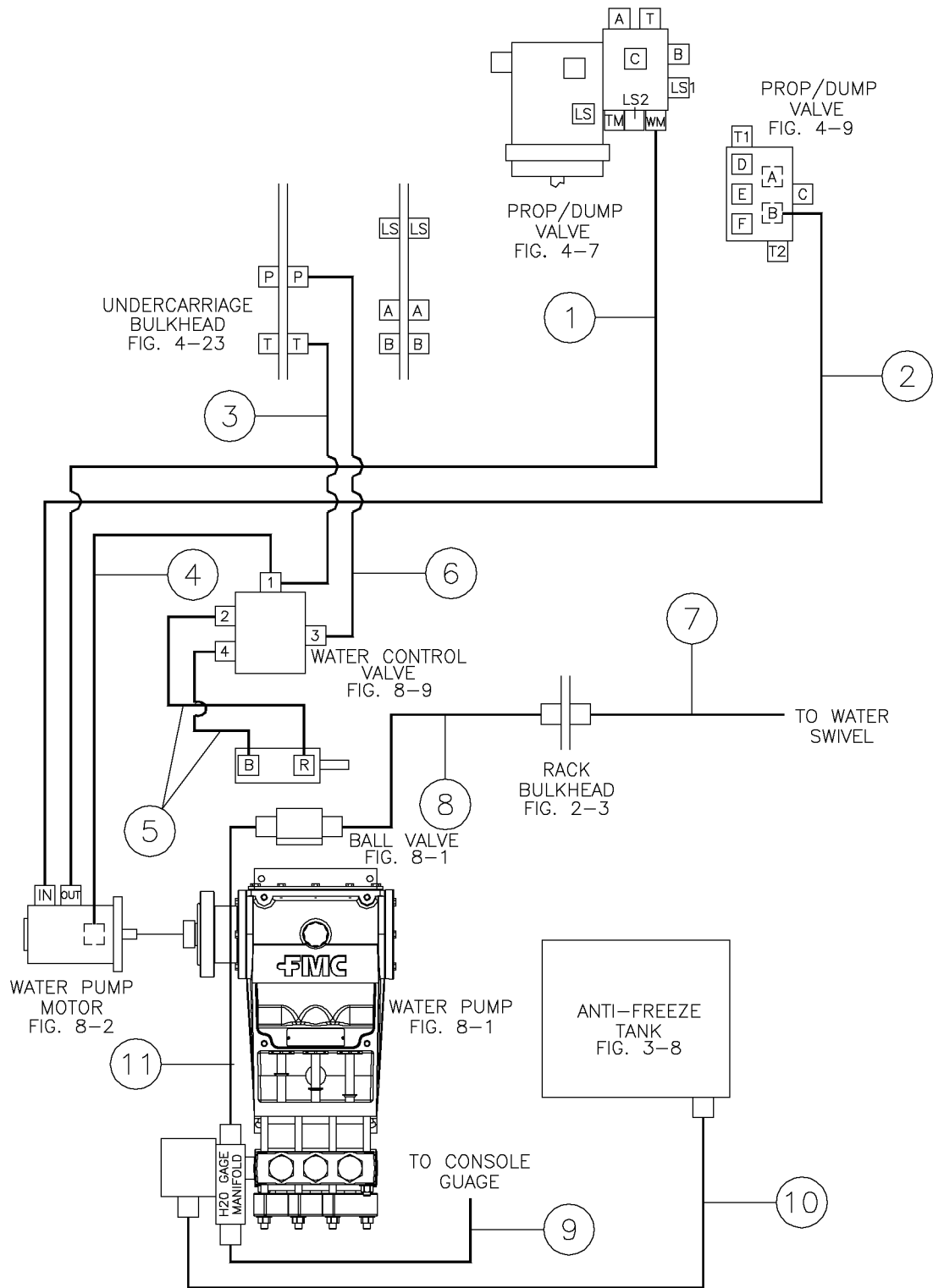
50 GPM FMC



Water System-50 GPM FMC Fig 12-8r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280935	HOSE-HYD .75X147 12 FSJIC ST/ST 3000 PSI	1	15 FT
		275212001	HOSE-3/4X100 12FSJIC ST/ST M3K	1	10 FT
2		296280955	HOSE-HYD .75X145 12 FSJ ST/ST 3000 PSI	1	15 FT
		53845033	HOSE-3/4X96 12FS JIC 100R4	1	10 FT
3		296284042	HOSE-HYD .38X71 4FSJIC ST/90 3000 PSI	1	15 FT
		57940477	HOSE-3/8X38 6FSJICST/6FSJC90	1	10 FT
4		296280243	HOSE-1/4 X 29 4FS ST/45 PSI 3000	1	15 FT
		53843547	HOSE-1/4X21 4FS JIC 3000 PSI	1	10 FT
5		53843577	HOSE-1/4X16 4FSJICST/4FSJIC90D	2	15 FT
6		159751001	HOSE - 3/8 X 68 6FS JIC ST/90 3000# M3K	1	15 FT
		57940477	HOSE-3/8X38 6FSJICST/6FSJC90	1	10 FT
7		296280946	HOSE-HYD 1.0X222 16FSJIC ST/45 3000 PSI	1	15 FT
		296286532	HOSE-1.00 X 191 16FS ST/45 JIC 3000 PSI	1	10 FT
8		296280945	HOSE-HYD 1.0X58 16FSJIC ST/90 3000 PSI	1	15 FT
		296280240	HOSE-1.0X31.5 16FS ST/45 JIC PSI 3000	1	10 FT
9		296280948	HOSE-HYD .078X280 4FSJIC ST/ST 6000 PSI	1	10 FT/15 FT
10		296280944	HOSE-HYD .75X70 12FSJIC ST/45 3000 PSI	1	10 FT/15 FT
11		296280216	HOSE-HYD. 1X32 16FSJIC ST/90	1	10 FT/15 FT

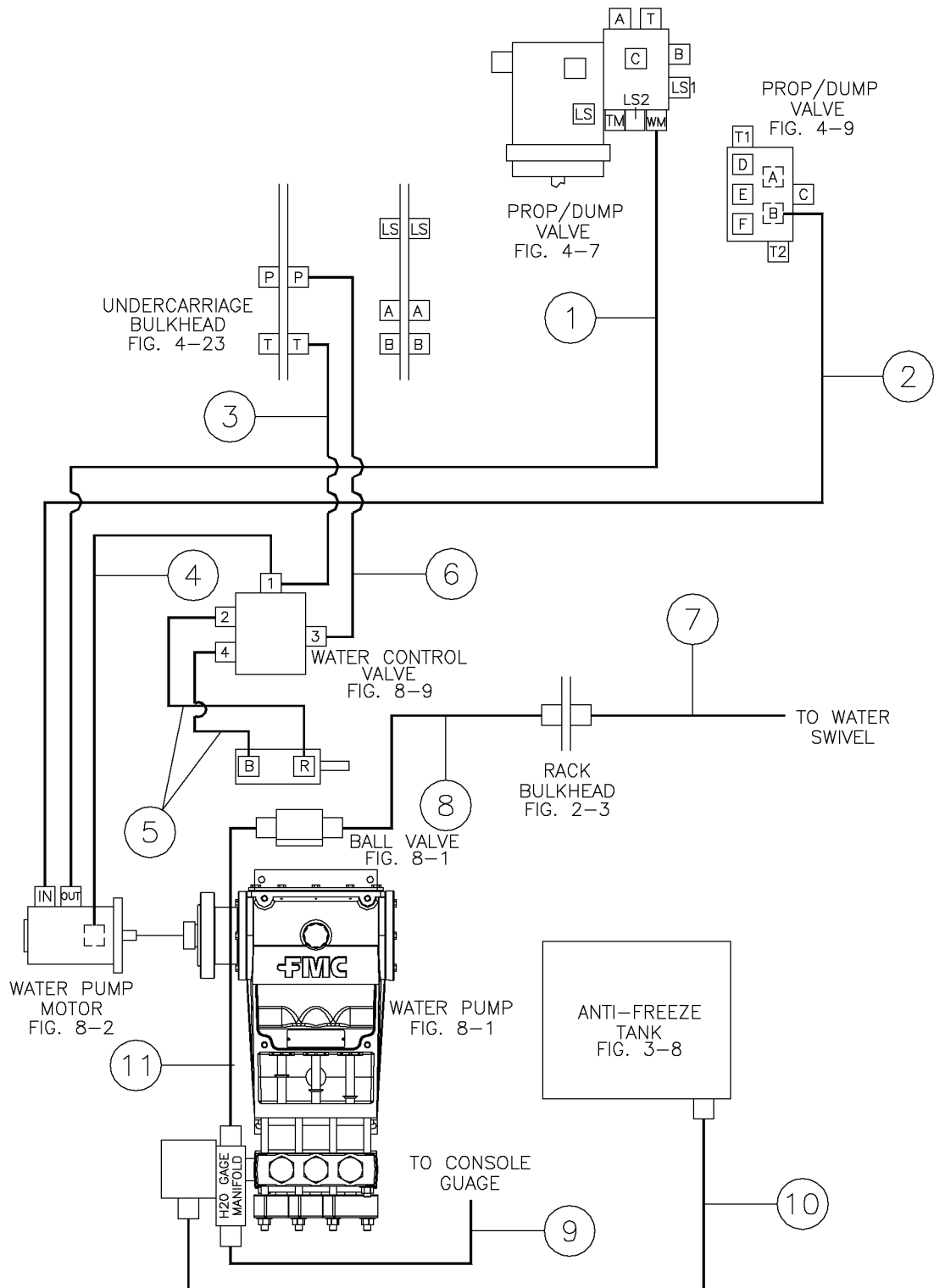
Water System-50 GPM FMC Fig 12-8r01



Water System-50 GPM FMC Fig 12-8r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280935	HOSE-HYD .75X147 12 FSIJIC ST/ST 3000 PSI	1	10 FT/15 FT
2		296280955	HOSE-HYD .75X145 12 FSJ ST/ST 3000 PSI	1	10 FT/15 FT
3		296284042	HOSE-HYD .38X71 4FSJIC ST/90 3000 PSI	1	15 FT
		57940477	HOSE-3/8X38 6FSJICST/6FSJC90	1	10 FT
4		53843547	HOSE-1/4X21 4FS JIC 3000 PSI	1	10 FT/15 FT
5		53843577	HOSE-1/4X16 4FSJICST/4FSJIC90D	2	10 FT/15 FT
6		159751001	HOSE - 3/8 X 68 6FS JIC ST/90 3000# M3K	1	15 FT
		57940477	HOSE-3/8X38 6FSJICST/6FSJC90	1	10 FT
7		296280946	HOSE-HYD 1.0X222 16FSJIC ST/45 3000 PSI	1	15 FT
		296286532	HOSE-1.00 X 191 16FS ST/45 JIC 3000 PSI	1	10 FT
8		296280945	HOSE-HYD 1.0X58 16FSJIC ST/90 3000 PSI	1	10 FT/15 FT
9		296280948	HOSE-HYD .078X280 4FSJIC ST/ST 6000 PSI	1	10 FT/15 FT
10		296280944	HOSE-HYD .75X70 12FSJIC ST/45 3000 PSI	1	10 FT/15 FT
11		296280216	HOSE-HYD. 1X32 16FSJIC ST/90	1	10 FT/15 FT

Water System-50 GPM FMC Fig 12-8

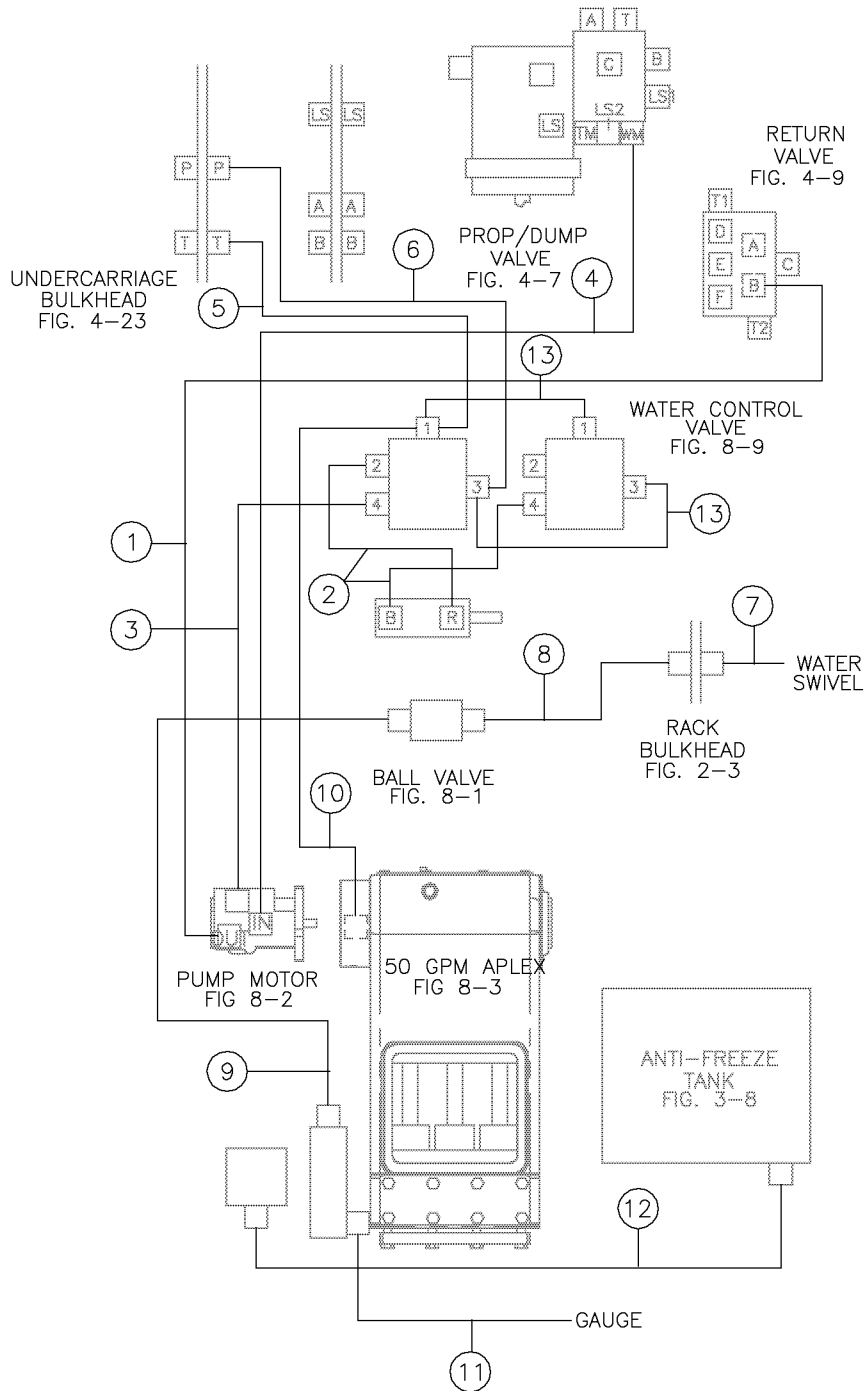


Water System-50 GPM FMC Fig 12-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296280935	HOSE-HYD .75X147 12 FSJIC ST/ST 3000 PSI	1	
2		296280955	HOSE-HYD .75X145 12 FSJ ST/ST 3000 PSI	1	
3		296284042	HOSE-HYD .38X71 4FSJIC ST/90 3000 PSI	1	
4		53843547	HOSE-1/4X21 4FS JIC 3000 PSI	1	
5		53843577	HOSE-1/4X16 4FSJICST/4FSJIC90D	2	
6		159751001	HOSE - 3/8 X 68 6FS JIC ST/90 3000# M3K	1	
7		296280946	HOSE-HYD 1.0X222 16FSJIC ST/45 3000 PSI	1	
8		296280945	HOSE-HYD 1.0X58 16FSJIC ST/90 3000 PSI	1	
9		296280948	HOSE-HYD .078X280 4FSJIC ST/ST 6000 PSI	1	
10		296280944	HOSE-HYD .75X70 12FSJIC ST/45 3000 PSI	1	
11		296280216	HOSE-HYD. 1X32 16FSJIC ST/90	1	

Water System- 50 GPM Aplex Fig 12-9

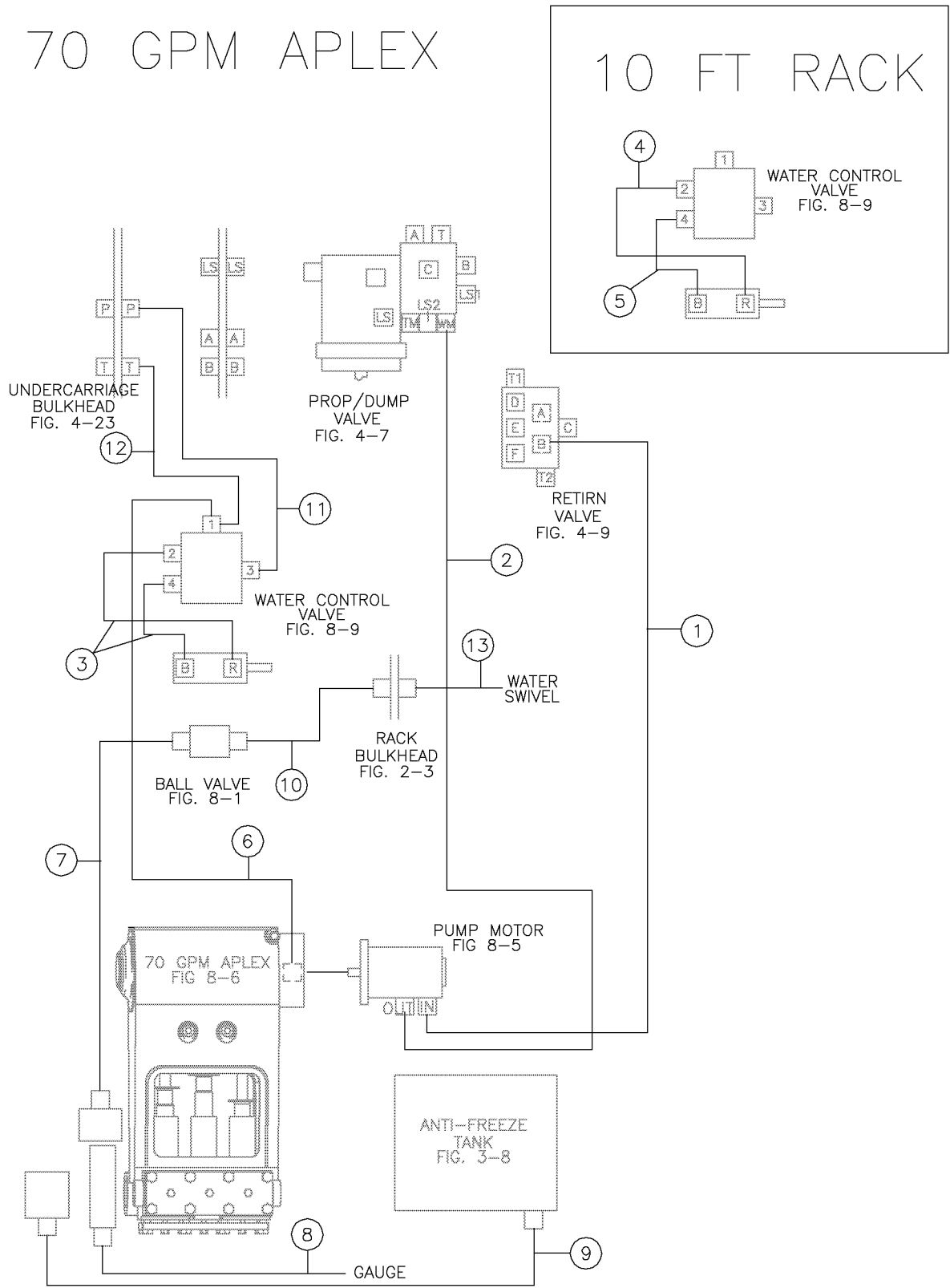
50 GPM APLEX



Water System- 50 GPM Aplex Fig 12-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	March, 2006		Addition To Manual
1		296280244	HOSE-3/4 X 126 12FS ST/ST PSI 3000	1	10 FT
		296280955	HOSE-.75X145 12FS JIC ST/ST 3000 PSI	1	15 FT
2		53843577	HOSE-1/4X16 4FSJICST/4FSJIC90D	2	10 FT/15 FT
3		53843145	HOSE-1/4X30-4 FS JIC 3000 PSI	1	10 FT/15 FT
4		296280245	HOSE- 3/4X130 12FS ST/ST PSI 3000	1	10 FT
		296280935	HOSE-.75X147 12FS JIC ST/ST 3000 PSI	1	15 FT
5		296284042	HOSE-3/8X71 6FS JIC ST/90 30000 PSI	1	10 FT/15 FT
6		159751001	HOSE - 3/8 X 68 6FS JIC ST/90 3000# M3K	1	10 FT/15 FT
7		296286532	HOSE - 1.00 X 191 16FS ST/45 JIC 3000 PS	1	10 FT
		296280946	HOSE-1.00X222 16FS ST/45 JIC 3000 PSI	1	15 FT
8		296286572	HOSE - 1.00 X 31.5 16FS JIC ST/90 3000 P	1	10 FT
		296280945	HOSE-1.00X58 16FS JIC ST/90 3000 PSI	1	15 FT
9		296280944	HOSE-3/4X70 12FS JIC ST/45 3000 PSI	1	10 FT/15 FT
10		53843547	HOSE-1/4X21 4FS JIC 3000 PSI	1	10 FT/15 FT
11		296280948	HOSE - MICRO	1	10 FT/15 FT
12		296280216	HOSE-1.0X32 16FSJICST/90 3000	1	10 FT/15 FT
13		57940719	HOSE-3/8X21 6FSJICST/45D3000#	2	10 FT/15 FT

Water System- 70 GPM Aplex Fig 12-10



Water System- 70 GPM Apex Fig 12-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		Revision Date	February, 2006		Addition To Manual
1		296286539	HOSE - 3/4 X 119 12 FS ST/ST JIC 3000 PS	1	15 FT
		53845033	HOSE-3/4X96 12FS JIC 100R4	1	10 FT
2		296286540	HOSE- 3/4 X 121 12 FS ST/ST JIC 3000 PSI	1	15 FT
		275212001	HOSE-3/4X100 12FSJIC ST/ST M3K	1	10 FT
3		53843577	HOSE-1/4X16 4FSJICST/4FSJIC90D	2	10 FT/15 FT
4		296286508	HOSE-1/4 X 13 4FS ST/45 JIC 3000 PSI	1	10 FT
5		296286509	HOSE - 1/4 X 10 4FS ST/45 JIC 3000 PSI	1	10 FT
6		53843547	HOSE-1/4X21 4FS JIC 3000 PSI	1	10 FT/15 FT
7		296280216	HOSE-1.0X32 16FSJICST/90 3000	1	10 FT/15 FT
8		296280948	HOSE - MICRO	1	10 FT/15 FT
9		296280944	HOSE-3/4X70 12FS JIC ST/45 3000 PSI	1	10 FT/15 FT
10		296286572	HOSE - 1.00 X 31.5 16FS JIC ST/90 3000 P	1	10 FT
		296280945	HOSE-1.00X58 16FS JIC ST/90 3000 PSI	1	15 FT
11		57940477	HOSE-3/8X38 6FSJICST/6FSJC90	1	10 FT
		159751001	HOSE - 3/8 X 68 6FS JIC ST/90 3000# M3K	1	15 FT
12		57940477	HOSE-3/8X38 6FSJICST/6FSJC90	1	10 FT
		296284042	HOSE-3/8X71 6FS JIC ST/90 30000 PSI	1	15 FT
13		296286532	HOSE - 1.00 X 191 16FS ST/45 JIC 3000 PS	1	10 FT
		296280946	HOSE-1.00X222 16FS ST/45 JIC 3000 PSI	1	15 FT

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Revision History

Revision	Date	Page(s)	Description
P1.00	October, 2005	All	First Edition Manual Released
P1.01	Nov, 2005	TOC,1-5, 2-1, 2-2, 2-4, 2-7, 2-12, 3-1, 3-8, 4-2, 4-4, 4-5, 4-6, 4-9, 4-10, 4-12, 4-18, 4-20, 4-21, 4-22, 4-23, 5-4, 7-5, 7-7, 7-8, 7-9, 7-10, 8-2, 8-6, 8-9, 9-3, 9-4, 9-7, 9-8, 9-11, 9-14, 9-15, 9-16, 9-18, 11-12, 11-15 11-21, 11-38, 11-51, 11-56, 12-1, 12-2, 12-3, 12-4, 12-5, 12-6, 12-7, 12-8	First Edition, Frist Revision
P1.02	Jan, 2006	Toc, 1-4, 2-1, 2-3, 2-4, 2-7, 2-10, 3-5, 3-8, 3-10, 4-7, 4-9, 4-14, 5-5, 5-7, 7-2, 7-3, 9-8, 9-13, 9-16, 9-21, 11-28, 11-30, 11-38, 12-4, New 8-10	First Edition, Second Revision
P1.03	March, 2006	Toc, 2-3, 2-4, 2-9, 2-10, 2-12, 3-1, 3-8, 4-3, 4-4, 4-5, 4-6, 4-8, 4-14, 4-20, 4-21, 5-4, 7-1, 7-3, 7-7, 7-8, 7-9, 7-10, 7-12, 8-6, 9-1, 9-2, 9-3, 9-4, 9-5, 9-7, 9-8, 9-11, 9-21, 10-2, 11-1, 12-1, 12-2, 12-3, 12-4, 12-5, 12-7, 12-8, New, 4-7x01, 4-14x01, 9-13x01, 9-14x01 9-29, 9-30, 9-31, 9-32, 9-33, 9-34, 9-35, 12-9, 12-10	First Edition, Third Revision

