

NOTICE

The information contained is for **DEALER REFERENCE PURPOSES ONLY**.

MANUALS ARE MODEL AND SERIAL NUMBER SPECIFIC.

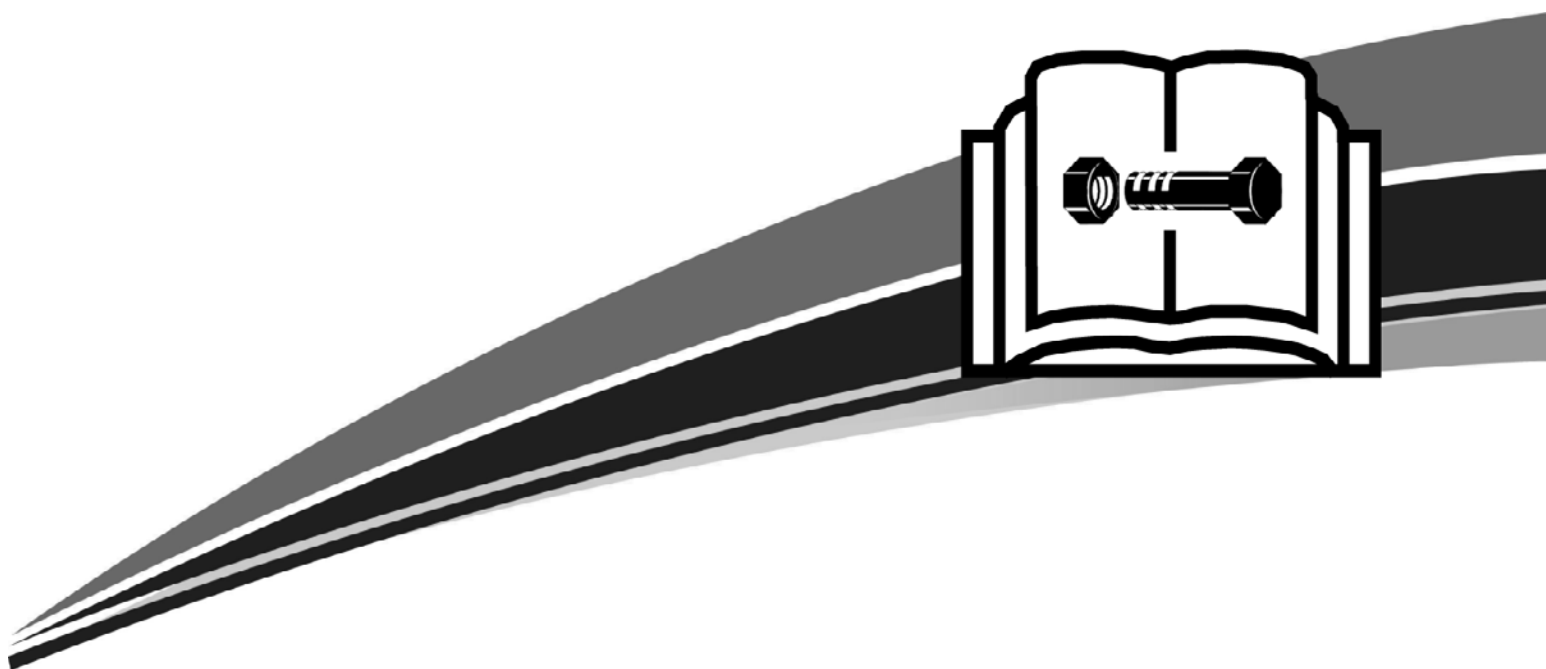
If additional printed manuals are required for your shop/office location, order by part number through the factory's Parts Center.

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@vermeer.com

This page intentionally left blank.

D9x13 Series II Navigator® Horizontal Directional Drill

Parts Manual



P1.09
Serial No. 101-
Order No. 105400ZQW

Vermeer®

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 Corporation, 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 Corporation reserves the right to make changes at any time without notice or obligation to you.

Your dealer will receive notice of these changes and can assist you with accurate parts identification when ordering.

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.

NOTICE TO OWNER – You are requested to notify Vermeer Corporation when you have purchased a **used** Vermeer machine. Notify the Customer Data Department by telephone: 800-829-0051 or 641-628-3141; email: customerdata@vermeer.com; internet: www.vermeer.com or www.vermeerag.com; or, letter: Customer Data Dept., Vermeer Corporation, PO Box 200, Pella IA 50219 USA. Upon request, an owner of a used Vermeer machine will receive one free set of Operator's, Maintenance and Parts manuals.

Maintenance Items - Section 1

Hydraulic Supplies Fig 1-1
Lubricants Fig 1-2
DRC Series Connectors Fig 1-3
DT Series Connectors Fig 1-4
DTHD Series/HDFB Modules Fig 1-5
DT Series Diode/Buss Blocks Fig 1-6

Decals - Section 2

Cosmetic Fig 2-1r01
Cosmetic Fig 2-1
Control Fig 2-2
Safety Fig 2-3
Safety Fig 2-4
Safety (S/N 133-) Fig 2-5r01
Safety (S/N 101-132) Fig 2-5
Safety Fig 2-6
Safety Fig 2-7
Miscellaneous Fig 2-8
Miscellaneous Fig 2-9r01
Miscellaneous Fig 2-9
Resource Library Fig 2-10

Frame - Section 3

Rack (SN 152-) Fig 3-1r01
Rack (SN 101-151) Fig 3-1
Seat Fig 3-2
Undercarriage (SN 148-) Fig 3-3r01
Undercarriage (SN 101-147) Fig 3-3
Cylinder-Track Extend Fig 3-4
Components-Cylinder Fig 3-4z01
Components-Manifold Crossover Relief Fig 3-4z02
Track Drive Hydraulic Motor Fig 3-5r01
Track Drive Hydraulic Motor Fig 3-5
Components-Wheel Motor Fig 3-5z01
Components-Wheel Motor Fig 3-5z02
Rack Carriage (SN 167-) Fig 3-6r01
Rack Carriage (SN 101-166) Fig 3-6
Thrust/Pullback Hydraulic Motor (SN 134-) Fig 3-7r01
Thrust/Pullback Hydraulic Motor (SN 101-133) Fig 3-7
Components-Thrust/Pullback Motor Fig 3-7z01
Thrust/Pullback Control Valve Fig 3-8r01
Thrust/Pullback Control Valve Fig 3-8
Rotation Gearbox Fig 3-9
Rotation Hydraulic Motor Fig 3-10r01
Rotation Hydraulic Motor Fig 3-10
Components-Hydraulic Motor Fig 3-10z01

Console	Fig 3-11
Outrigger Cylinder	Fig 3-12
Components-Outrigger Cylinder	Fig 3-12z01
Throttle	Fig 3-13
Outrigger Frame (SN 160-)	Fig 3-14r01
Outrigger Frame (SN 101-159)	Fig 3-14
Rod Box	Fig 3-15

Engine - Section 4

Engine Mount	Fig 4-1r02
Engine Mount	Fig 4-1r01
Engine Mount	Fig 4-1
Engine	Fig 4-2
Air Cleaner	Fig 4-3
Components-Air Cleaner	Fig 4-3z01
Fuel Tank	Fig 4-4
Cooling Package	Fig 4-5r01
Cooling Package	Fig 4-5
Hood (S/N 138, 142-143, 145-)	Fig 4-6r02
Hood (S/N 138, 142-143, 145-)	Fig 4-6r01
Hood (S/N 101-137)	Fig 4-6
Components-Hood	Fig 4-6z01
Umbrella Mount	Fig 4-7
Umbrella	Fig 4-8

Hydraulic - Section 5

Oil Tank (S/N 155-)	Fig 5-1r02
Oil Tank (S/N 155-)	Fig 5-1r01
Oil Tank (S/N 101-154)	Fig 5-1
Oil Tank-Cover 6"	Fig 5-1z01
Oil Tank-Cover 10"	Fig 5-1z02
Tandem Pump	Fig 5-2
Rotation Diverter Valve	Fig 5-3
Components-Rotation Diverter Valve	Fig 5-3z01
Rotation Valve	Fig 5-4
Hose Carrier	Fig 5-5
Components-Hose Carrier	Fig 5-5z01
Rear Transport Valve (SN 155-)	Fig 5-6r01
Rear Transport Valve (SN 101-154)	Fig 5-6
Components-Voltage Stake	Fig 5-6z01
4 Section Hyd. Valve w/ CB Drain	Fig 5-6z02
Dual Counterbalance Valve	Fig 5-6z03
Bucket Auto Greaser Mount	Fig 5-7
Bucket Auto Greaser (1 Gallon)	Fig 5-8
Bucket Auto Greaser Valve	Fig 5-9
Components-Bucket Auto Greaser Valve	Fig 5-9z01
Bucket Auto Greaser Cylinder	Fig 5-10
Components-Bucket Auto Greaser Cylinder	Fig 5-10z01
Components-Bucket Auto Greaser Follower	Fig 5-11

Control Electrical - Section 6

Control Panel Electrical	Fig 6-1
Components-Control Panel Joystick	Fig 6-1z01
Battery (SN 138, 142-143, 145-)	Fig 6-2r01
Battery (SN 101-137)	Fig 6-2
Joystick (SN 166-)	Fig 6-3r01
Joystick (SN 101-165)	Fig 6-3
Remote Lockout-Domestic	Fig 6-4
Remote Lockout-International	Fig 6-5
Harness-Console (SN 128-)	Fig 6-6r01
Harness-Console (SN 101-127)	Fig 6-6
Harness-Engine Bay	Fig 6-7
Harness-Rack	Fig 6-8
Harness-Strike Alert Coil	Fig 6-9

Water Pump - Section 7

Water Pump-15 GPM W/FM	Fig 7-1
Components-Water Pump-15 GPM W/FM	Fig 7-1z01
Water Valve-15 GPM	Fig 7-2
Components-Water Valve-15 GPM	Fig 7-2z01
Water Pump-9 GPM W/FM	Fig 7-3
Components-Water Pump-9 GPM W/FM	Fig 7-3z01
Water Valve-9 GPM	Fig 7-4
Components-Water Valve-9 GPM	Fig 7-4z01
Water Tank	Fig 7-5r01
Water Tank	Fig 7-5
Water Shut-Off Cylinder	Fig 7-6
Components-Water Shut-Off Valve	Fig 7-6z01
Components-Water Shut-Off Cylinder	Fig 7-6z02
Wand	Fig 7-7

Vise - Section 8

Clamp	Fig 8-1
Vise-Hydraulic	Fig 8-2
Components-Cylinder	Fig 8-2z01
Components-Cylinder	Fig 8-2z02
Vise-Valve	Fig 8-3
Components-Vise Valve	Fig 8-3z01
Zap Alert (S/N 152-)	Fig 8-4r01
Zap Alert (S/N 101-151)	Fig 8-4

Stakedown - Section 9

Stakedown-4"	Fig 9-1
Components-Motor	Fig 9-1z01
Valve Stakedown	Fig 9-2

Safety - Section 10

Safety Features Gloves-Boots-Cones..... Fig 10-1

Voltage Stake (Deleted) Fig 10-2r01

Voltage Stake Fig 10-2

Components-Voltage Stake (Deleted) Fig 10-2z01r01

Components-Voltage Stake Fig 10-2z01

Hose Diagrams - Section 11

Engine Bay Fig 11-1

Rear Valve..... Fig 11-2r01

Rear Valve..... Fig 11-2

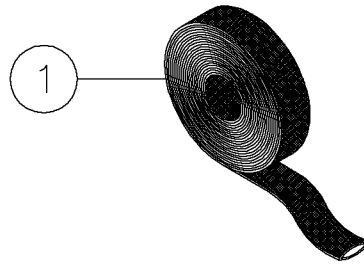
Vise Valve Fig 11-3

Stakedown..... Fig 11-4

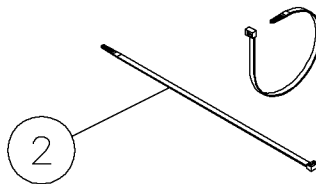
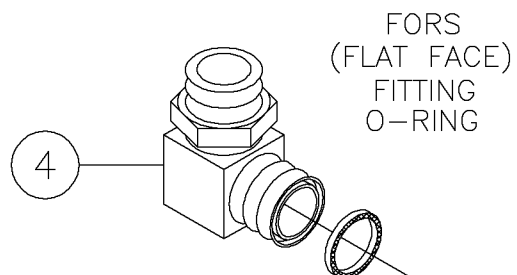
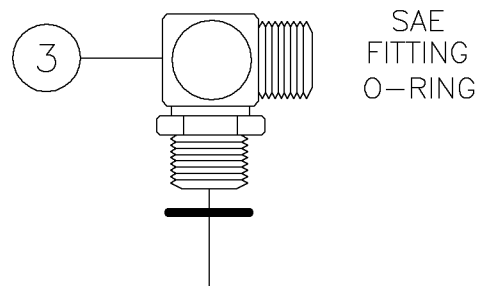
Hose Carrier/Water Pump..... Fig 11-5

Auto Greaser..... Fig 11-6

This page intentionally left blank.

Hydraulic Supplies Fig 1-1CORDURA SLEEVES

NOTE: SPECIFY LENGTH WHEN ORDERING

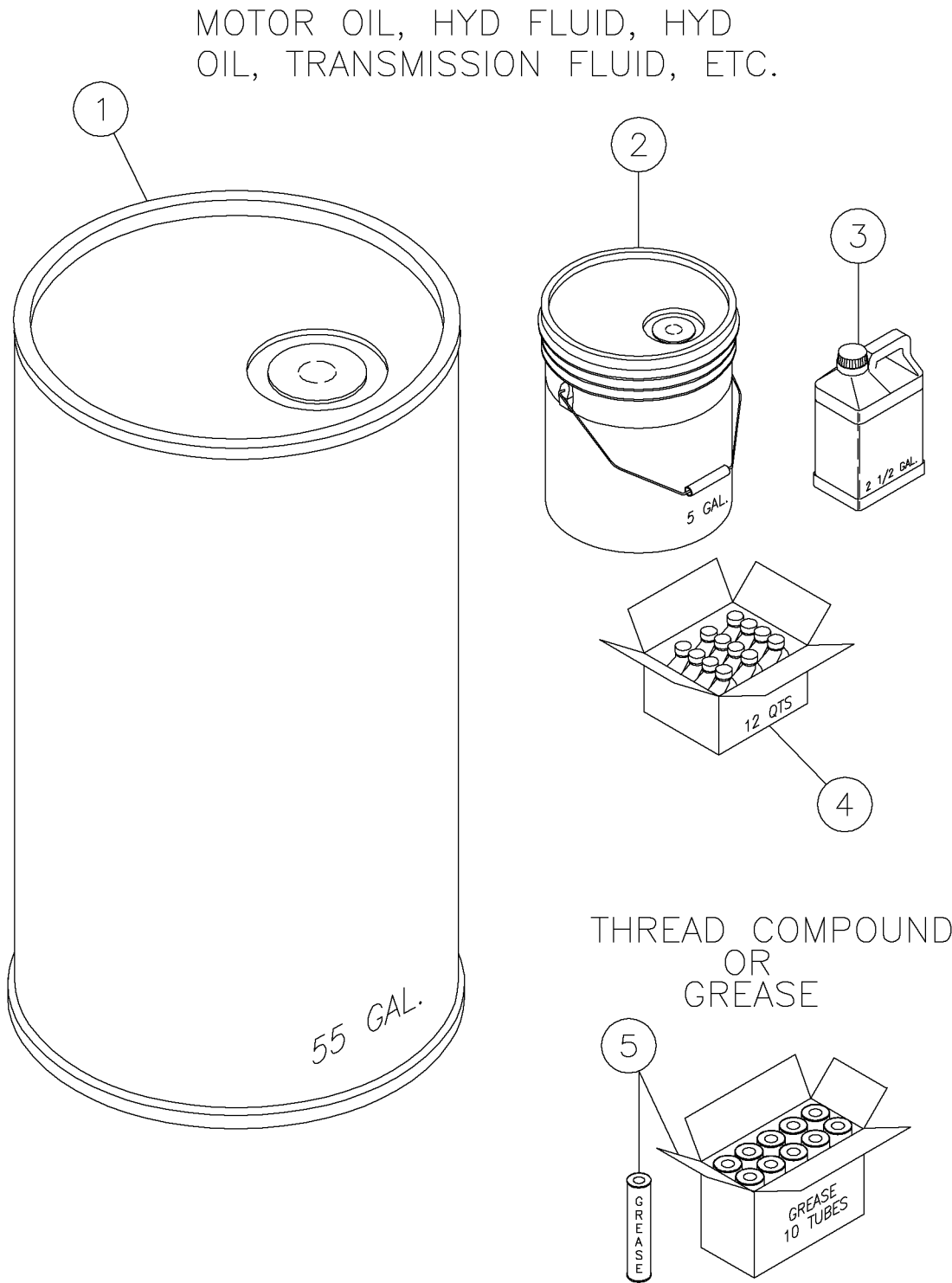
TIE STRAPSO-RINGS

NOTE: O-RINGS LISTED ARE 90 DUROMETER

Hydraulic Supplies Fig 1-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
			CORDURA SLEEVES		
1		83726001	INSIDE DIAMETER .71		SPECIFY LENGTH
1		66094001	INSIDE DIAMETER 1.22		SPECIFY LENGTH
1		67264001	INSIDE DIAMETER 1.42		SPECIFY LENGTH
1		69129001	INSIDE DIAMETER 1.59		SPECIFY LENGTH
1		53840001	INSIDE DIAMETER 1.81		SPECIFY LENGTH
1		53841001	INSIDE DIAMETER 2.37		SPECIFY LENGTH
1		235824001	INSIDE DIAMETER 2.66		SPECIFY LENGTH
			TIE STRAPS		
2		78657001	4 IN. LENGTH		
2		59634001	8 IN. LENGTH		
2		58151001	15 IN. LENGTH		
			O-RINGS (SAE)		
3		78185027	4M SAE FITTING SIZE		
3		53649081	5M SAE FITTING SIZE		
3		59088057	6M SAE FITTING SIZE		
3		59088053	8M SAE FITTING SIZE		
3		792029	10M SAE FITTING SIZE		
3		3152013	12M SAE FITTING SIZE		
3		3155015	14M SAE FITTING SIZE		
3		81580001	16M SAE FITTING SIZE		
3		93316001	20M SAE FITTING SIZE		
			O-RINGS (FORS)		
4		93843001	ORING-AS-011-C90 FOR#4ORS FIT		90 DUROMETER
4		93844001	ORING-AS-012-C90 FOR #6ORS FIT		90 DUROMETER
4		93845001	ORING-AS-014-C90 FOR#8ORS FIT.		90 DUROMETER
4		93846001	O-RING-AS-016-C90 FOR#10ORS FIT		90 DUROMETER
4		93847001	O-RING-AS-018-C90 FOR#12ORS FIT		90 DUROMETER
4		93848001	ORING-AS-021-C90 FOR#16ORS FIT		90 DUROMETER
4		93849001	O-RING-AS-025-C90 FOR#20ORS FIT		90 DUROMETER
4		93850001	O-RING-AS-029-C90 FOR#24ORS FIT		90 DUROMETER

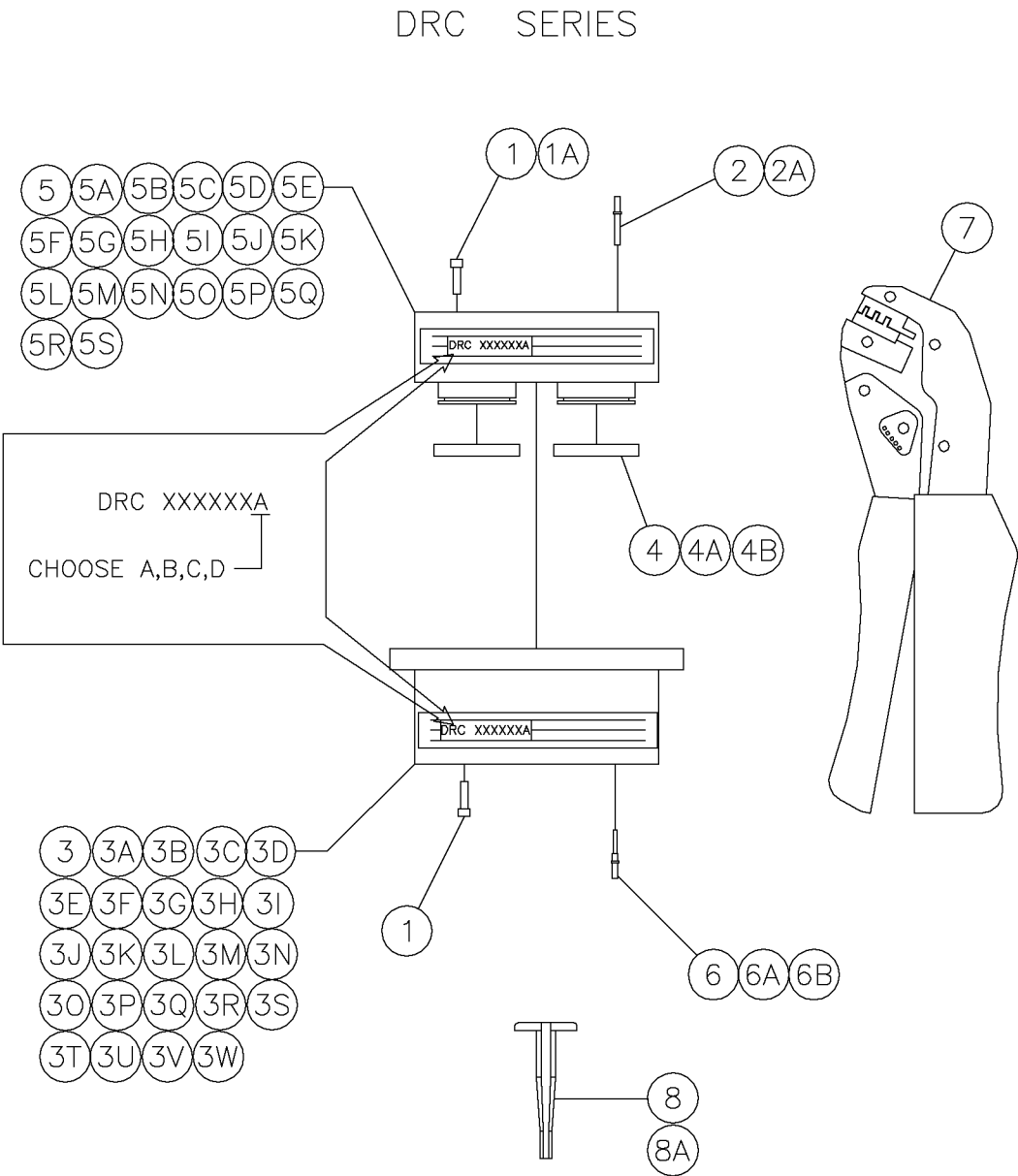
Lubricants Fig 1-2



Lubricants Fig 1-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
			55 GALLON		
1		99661005	ULTRA GOLD 15W40 55 GALLON DRUM		
1		104155005	ULTRA GOLD 30W 55 GALLON DRUM		
1		99662005	ULTRA GOLD VMF HYD FLUID 55 DRUM		
1		101518005	ULTRA GOLD HY-POWER 68 55 GALLON DRUM		
1		101519005	ULTRA GOLD HY-POWER 100 55 GALLON DRUM		
1		621584005	ULTRA GOLD HY-POWER 46 HYD OIL 55 GAL.		
1		144569982	MOBIL EAL224H 55 GALLON DRUM		
1		99663005	ULTRA GOLD 80/90WGEAR OIL 55 DRUM		
			5 GALLON		
2		99661003	ULTRA GOLD 15W40 5 GALLON PAIL		
2		142939003	ULTRA GOLD 10W/30 5 GAL PAIL		
2		99662003	ULTRA GOLD VMF HYD FLUID 5 GALLON PAIL		
2		101518003	ULTRA GOLD HY-POWER 68 5 GALLON PAIL		
2		101519003	ULTRA GOLD HY-POWER 100 5 GALLON PAIL		
2		621584003	ULTRA GOLD HY-POWER 46 HYD OIL 5 GALLON		
2		125653003	ULTRA GOLD ATF 5 GALLON		
2		127732003	HYD. OIL-BIODEGRADABLE (5 GAL)		
2		99663003	ULTRA GOLD 80W90 TRANS 5 GALLON PAIL		
			2 1/2 GALLON		
3		99661002	ULTRA GOLD 15W40 CASE 2 2 1/2 GALLON JUGS		
3		99662002	ULTRA GOLD VMF HYD 2 2 1/2 GALLON JUGS		
3		101518002	ULTRA GOLD HY-POWER 68 2 2 1/2 GALLON JUGS		
3		101519002	ULTRA GOLD HY-POWER 100 2 2 1/2 GALLON BUCKETS		
3		621584002	ULTRA GOLD HY-POWER 46 HYD OIL 2 1/2 GAL (CASE 2)		
3		125653002	ULTRA GOLD ATF FLUID 2 2 1/2 GALLON JUGS		
3		99663002	ULTRA GOLD 80W90 TRANS 2 1/2 case		
3		142939002	ULTRA GOLD 10W30 2 2 1/2 GALLON BUCKETS		
			12 QUARTS (CASE)		
4		99661008	ULTRA GOLD 15W40 CASE 12 QUARTS		
4		142939008	ULTRA GOLD 10W30 MOTOR OIL(12 QTS)		
4		247337008	50W OIL-NONDETERGENT(CASE 12 QUARTS)		
4		216825008	ULTRA GOLD 75W90 SYNTHETIC 12 QUARTS		
4		238858008	PL VMR ISO SYN GEAR 12QT/CS		
			10pc CASE (14oz TUBES)		
5		101562003	ULTRA GOLD ULTRA LC GREASE CASE OF 10 14OZ		
5		296262012	THRD CMPND-PLUSCO 135-SINGLE CARTRIDGE		
5		275927982	THRD CMPND - PLUSCO 135 - 10 PACK		
5		275928982	THRD CMPND - CASE OF 4 / 10 PACKS		

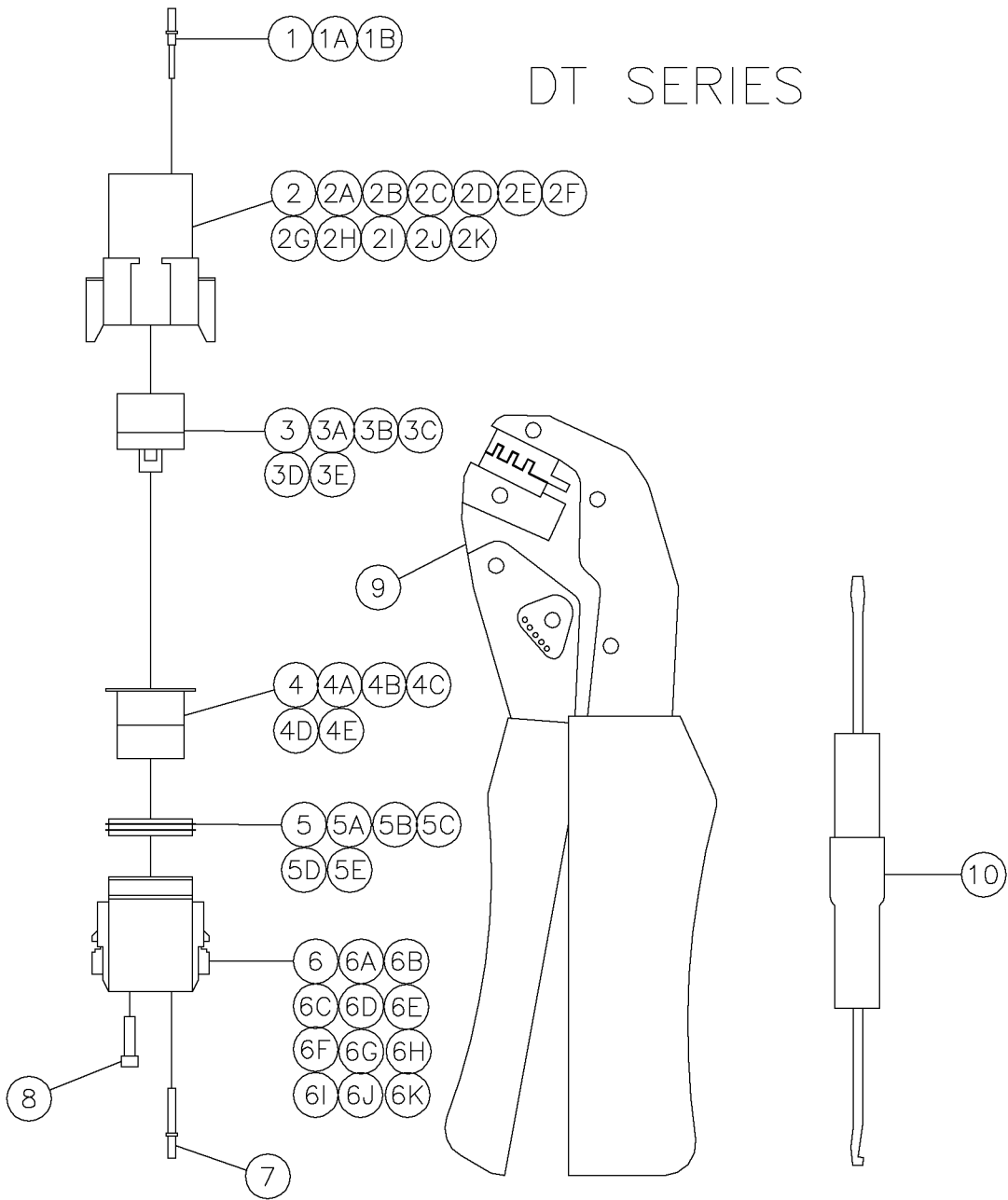
DRC Series Connectors Fig 1-3



DRC Series Connectors Fig 1-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		276906001	PLUG - SEALING (20)		
1A		94201001	PLUG - SEALING (12-16)		
2		91354001	SOCKET - 16/18 GA.		
2A		276916001	SOCKET - 20 GA.		
3		276894001	RECEPTACLE - 24 PIN INLINE (A)		
3A		276907001	RECEPTACLE - 24 PIN INLINE (B)		
3B		276917001	RECEPTACLE - 24 PIN INLINE (C)		
3C		276918001	RECEPTACLE - 24 PIN INLINE (D)		
3D		276895001	RECEPTACLE - 24 IN FLNG MNT (A)		
3E		276908001	RECEPTACLE - 24 PIN FLNG MNT (B)		
3F		276919001	RECEPTACLE - 24 PIN FLNG MNT (C)		
3G		276920001	RECEPTACLE - 24 PIN FLNG MNT (D)		
3H		276896001	RECEPTACLE - 40 PIN INLINE (A)		
3I		276909001	RECEPTACLE - 40 PIN INLINE (B)		
3J		276921001	RECEPTACLE - 40 PIN INLINE (C)		
3K		276922001	RECEPTACLE - 40 PIN INLINE (D)		
3L		276897001	RECEPTACLE - 40 PIN FLNG MNT (A)		
3M		276910001	RECEPTACLE - 40 PIN FLNG MNT (B)		
3N		276923001	RECEPTACLE - 40 PIN FLNG MNT (C)		
3O		276924001	RECEPTACLE - 40 PIN FLNG MNT (D)		
3P		276898001	RECEPTACLE - 70 PIN INLINE (A)		
3Q		276911001	RECEPTACLE - 70 PIN INLINE (B)		
3R		276925001	RECEPTACLE - 70 PIN INLINE (C)		
3S		276926001	RECEPTACLE - 70 PIN INLINE (D)		
3T		276899001	RECEPTACLE - 70 PIN FLNG MNT (A)		
3U		276912001	RECEPTACLE - 70 PIN FLNG MNT (B)		
3V		276927001	RECEPTACLE - 70 PIN FLNG MNT (C)		
3W		276928001	RECEPTACLE - 70 PIN FLNG MNT (D)		
4		276900001	GASKET - 24 PIN INTERFACE		
4A		276901001	GASKET - 40 PIN INTERFACE		
4B		276902001	GASKET - 70 PIN INTERFACE		
5		276931001	PLUG - 24 PIN (SIZE 20 CONTACTS) (A)		
5A		276932001	PLUG - 24 PIN (SIZE 20 CONTACTS)		
5B		276933001	PLUG - 24 PIN (SIZE 20 CONTACTS) (C)		
5C		276934001	PLUG - 24 PIN (SIZE 20 CONTACTS) (D)		
5D		276939001	PLUG - 40 PIN (SIZE 20 CONTACTS) (A)		
5E		276940001	PLUG - 40 PIN (SIZE 20 CONTACTS) (B)		
5F		276941001	PLUG - 40 PIN (SIZE 20 CONTACTS) (C)		
5G		276942001	PLUG - 40 PIN (SIZE 20 CONTACTS) (D)		
5H		276903001	PLUG - 24 PIN (A)		
5I		276913001	PLUG - 24 PIN (B)		
5J		276929001	PLUG - 24 PIN (C)		
5K		276930001	PLUG - 24 PIN (D)		
5L		276904001	PLUG - 40 PIN (A)		
5M		276914001	PLUG - 40 PIN (B)		
5N		276935001	PLUG - 40 PIN (C)		
5O		276936001	PLUG - 40 PIN (D)		
5P		276905001	PLUG - 70 PIN (A)		
5Q		276915001	PLUG - 70 PIN (B)		
5R		276937001	PLUG - 70 PIN (C)		
5S		276938001	PLUG - 70 PIN (D)		
6		276866001	PIN - 14/16 GA.		
6A		87696001	PIN-16/18 GA.		
6B		276951001	PIN - (20 GA.)		
7		286553001	TOOL - DEUTSCH CRIMPING (FIELD)		
8		276892001	TOOL - 16/18 GA. EXTRACTOR (BLUE)		
8A		276893001	TOOL - 20/24 GA. EXTRACTOR (RED)		

DT Series Connectors Fig 1-4

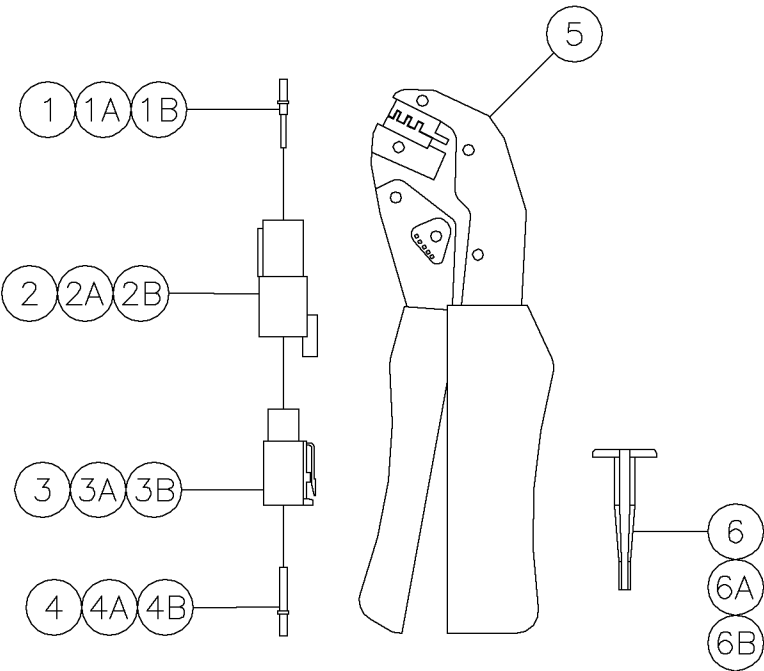


DT Series Connectors Fig 1-4

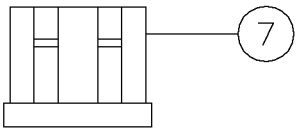
REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		276866001	PIN - 14/16 GA.		
1A		87696001	PIN-16/18 GA.		
1B		276951001	PIN - (20 GA.)		
2		276867001	RECEPTACLE - 2 PIN		
2A		276868001	RECEPTACLE - 3 PIN		
2B		276869001	RECEPTACLE - 4 PIN		
2C		276890001	RECEPTACLE - 6 PIN		
2D		276943001	RECEPTACLE - 8 PIN (A)		
2E		276944001	RECEPTACLE - 8 PIN (B)		
2F		276945001	RECEPTACLE - 8 PIN (C)		
2G		276946001	RECEPTACLE - 8 PIN (D)		
2H		276947001	RECEPTACLE - 12 PIN (A)		
2I		276948001	RECEPTACLE - 12 PIN (B)		
2J		276949001	RECEPTACLE - 12 PIN (C)		
2K		276950001	RECEPTACLE - 12 PIN (D)		
3		276870001	WEDGE - 2 PIN RECEPTACLE		
3A		276871001	WEDGE - 3 PIN RECEPTACLE		
3B		276872001	WEDGE - 4 PIN RECEPTACLE		
3C		276873001	WEDGE - 6 PIN RECEPTACLE		
3D		94200001	WEDGE - 8 PIN RECEPTACLE		
3E		103213001	WEDGE - 12 PIN RECEPTACLE		
4		276874001	WEDGE - 2 PIN PLUG		
4A		276875001	WEDGE - 3 PIN PLUG		
4B		276876001	WEDGE - 4 PIN PLUG		
4C		276877001	WEDGE - 6 PIN PLUG		
4D		98106001	WEDGE - 8 PIN PLUG		
4E		103214001	WEDGE - 12 PIN PLUG		
5		276878001	GASKET - INTERFACE 2 PIN		
5A		276879001	GASKET - INTERFACE 3 PIN		
5B		276880001	GASKET - INTERFACE 4 PIN		
5C		276881001	GASKET - INTERFACE 6 PIN		
5D		276882001	GASKET - INTERFACE 8 PIN		
5E		276883001	GASKET - INTERFACE 12 PIN		
6		276884001	PLUG - 2 PIN		
6A		276885001	PLUG - 3 PIN		
6B		276886001	PLUG - 4 PIN		
6C		276887001	PLUG - 6 PIN		
6D		98107001	PLUG - 8 PIN (A)		
6E		276985001	PLUG - 8 PIN (B)		
6F		276986001	PLUG - 8 PIN (C)		
6G		276987001	PLUG - 8 PIN (D)		
6H		103211001	PLUG - 12 PIN (A)		
6I		276988001	PLUG - 12 PIN (B)		
6J		276989001	PLUG - 12 PIN (C)		
6K		276990001	PLUG - 12 PIN (D)		
7		91354001	SOCKET - 16/18 GA.		
8		94201001	PLUG - SEALING (12-16)		
9		286553001	TOOL - DEUTSCH CRIMPING (FIELD)		
10		286553003	TOOL - DEUTSCH (FIELD)		

DTHD Series/HDFB Modules Fig 1-5

DTHD SERIES



HDFB MODULES

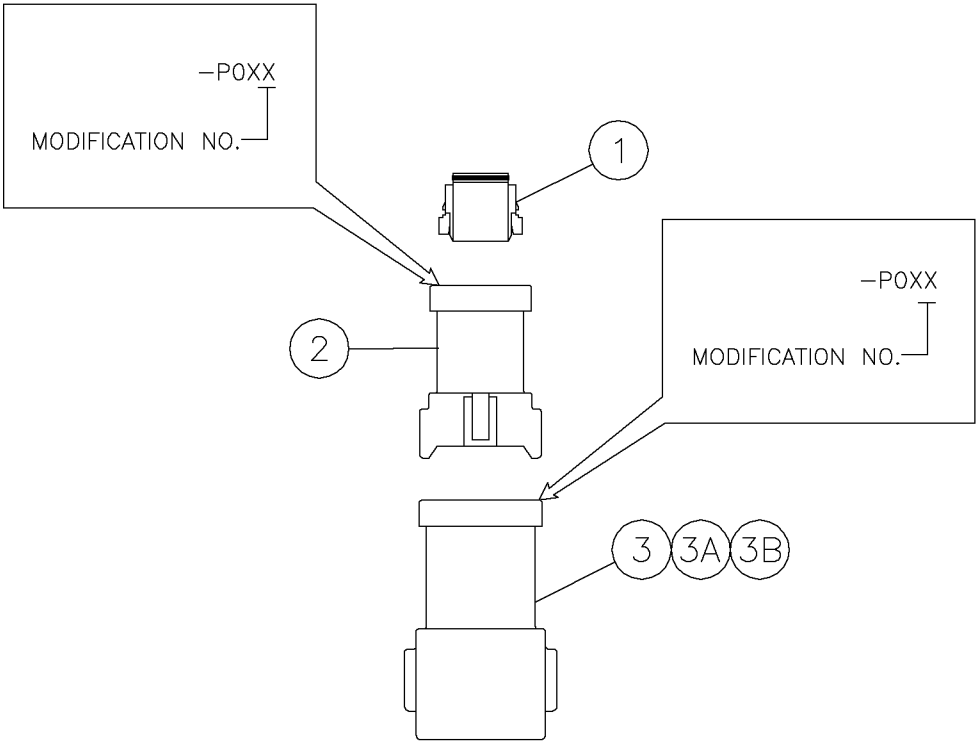


DTHD Series/HDFB Modules Fig 1-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		231988001	PIN-12 GA		
1A		276953001	PIN - 8/10 GA.		
1B		276954001	PIN - 6 GA.		
2		279423001	RECEPTACLE - SIZE 4 CONTACT		
2A		279424001	RECEPTACLE - SIZE 8 CONTACT		
2B		279425001	RECEPTACLE - SIZE 12 CONTACT		
3		279426001	PLUG - SIZE 4 CONTACT		
3A		279427001	PLUG - SIZE 8 CONTACT		
3B		279428001	PLUG - SIZE 12 CONTACT		
4		276982001	SOCKET - 12/14 GA. DEUTSCH		
4A		276984001	SOCKET - 8/12 GA.		
4B		276952001	SOCKET - 6 GA.		
5		603961001	PLIERS-DEUTSCH CRIMPING		
6		276981001	PLUG - 19 PIN (SHELL SIZE 24)		
6A		276889001	TOOL - 8/10 GA. EXTRACTOR (GREEN)		
6B		276888001	TOOL - 6 GA. EXTRACTOR (WHITE)		
7		279430001	MODULE - FEEDBACK (10 PIN)		
note			Not All Items Listed Are Used On This Machine		

DT Series Diode/Buss Blocks Fig 1-6

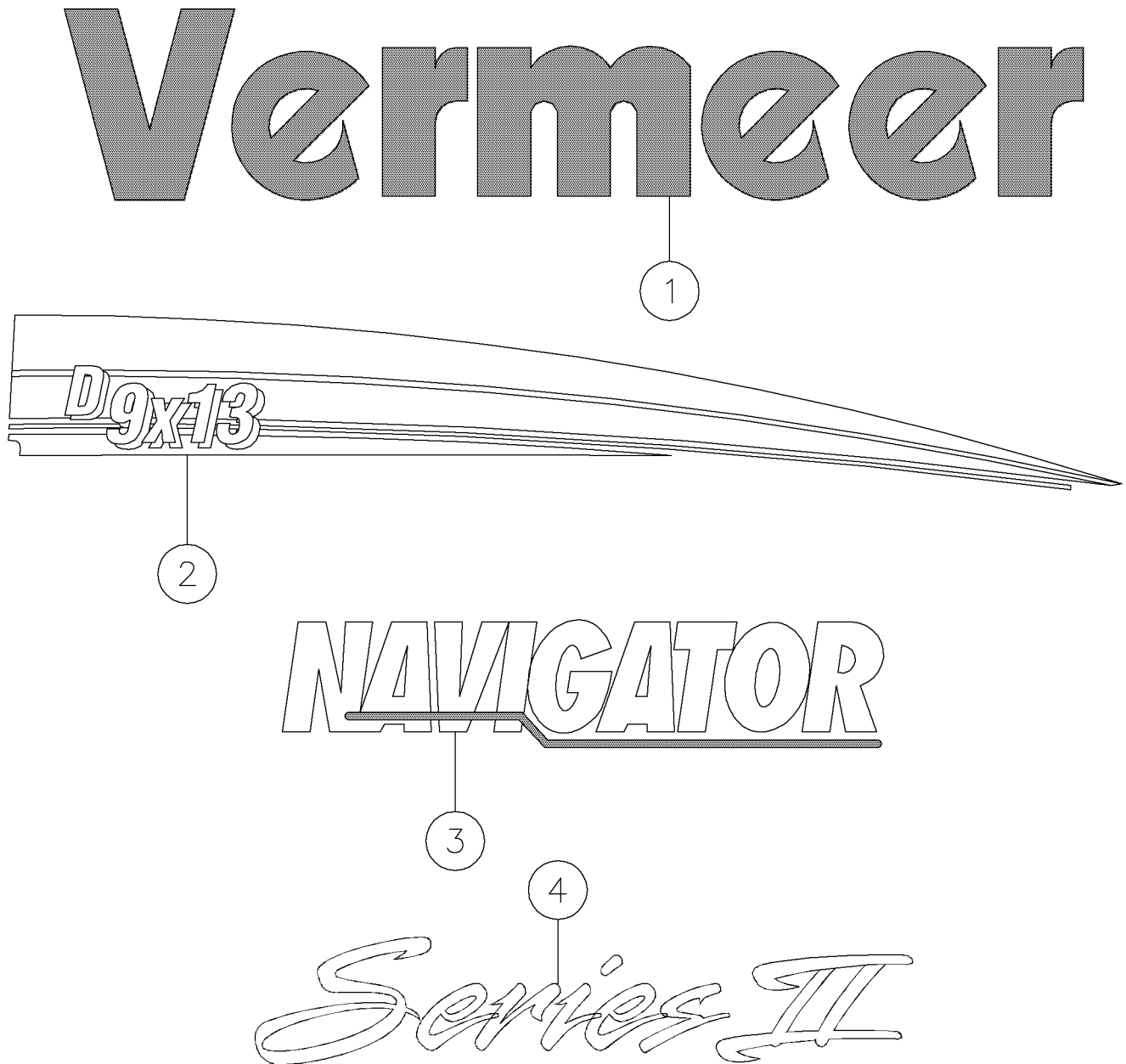
DT SERIES DIODE/BUSS BLOCKS



DT Series Diode/Buss Blocks Fig 1-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		282531001	MODULE - DEUTSCH DT06-6S 3AMP DIODE	1	
2		700000096	BUSS - 1 - 8PIN - B	1	
3		700000102	BUSS - 1 - 12PIN - B - NICKEL	1	
3A		700000104	BUSS - 2 - 12PIN - B - 6/6	1	
3B		700000106	BUSS - 4 - 12PIN - B - 3/3/3/3	1	

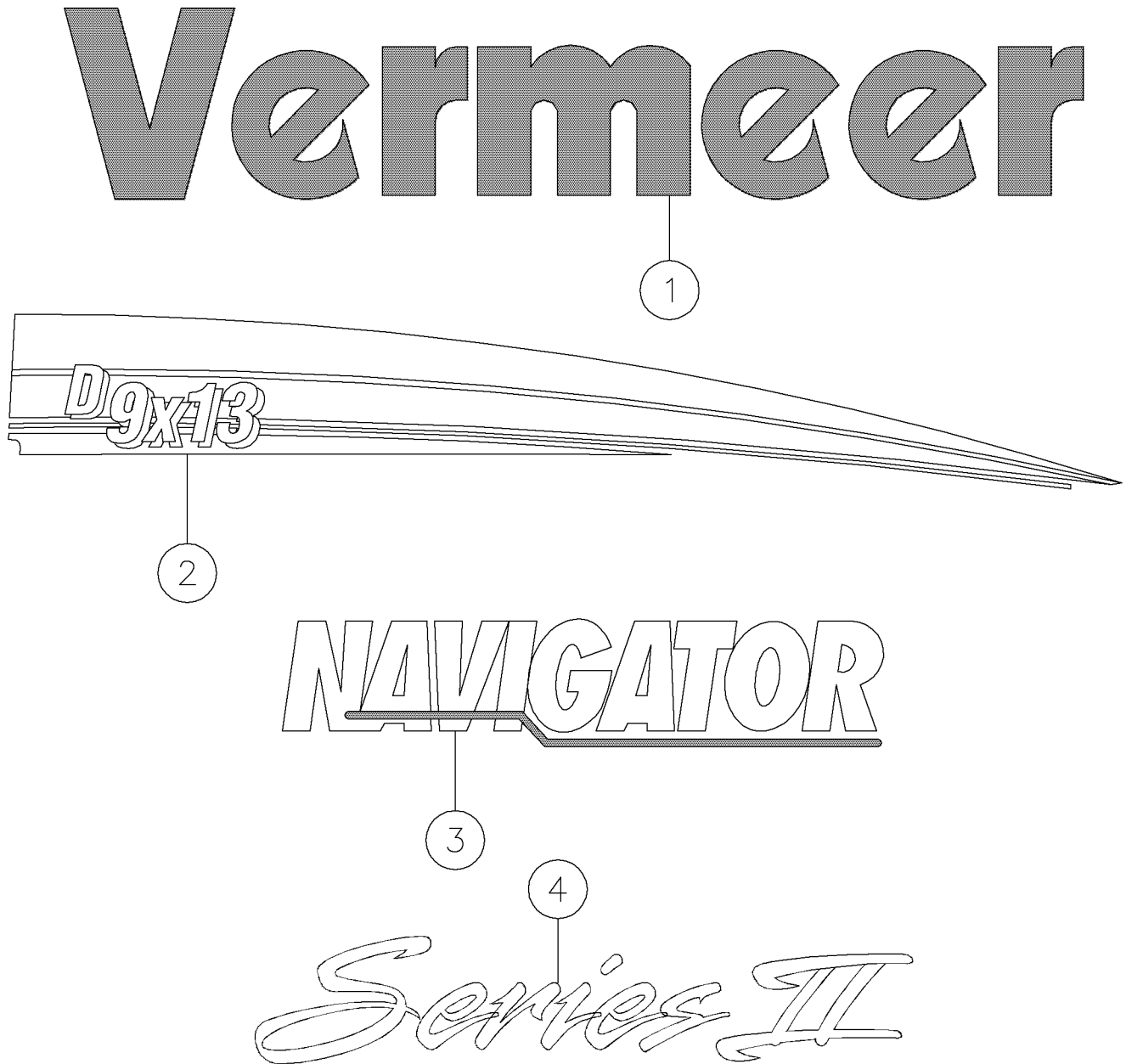
Cosmetic Fig 2-1r01



Cosmetic Fig 2-1r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		2326595	DECAL VERMEER- 4 1/2 X 24	1	
2		7000F085	DECAL - 9 X 13II STRIPE	1	
3		7000A010	DECAL-MODEL NAVIGATOR(MEDIUM)	1	
4		7000C325	DECAL - SERIES II (10")	1	

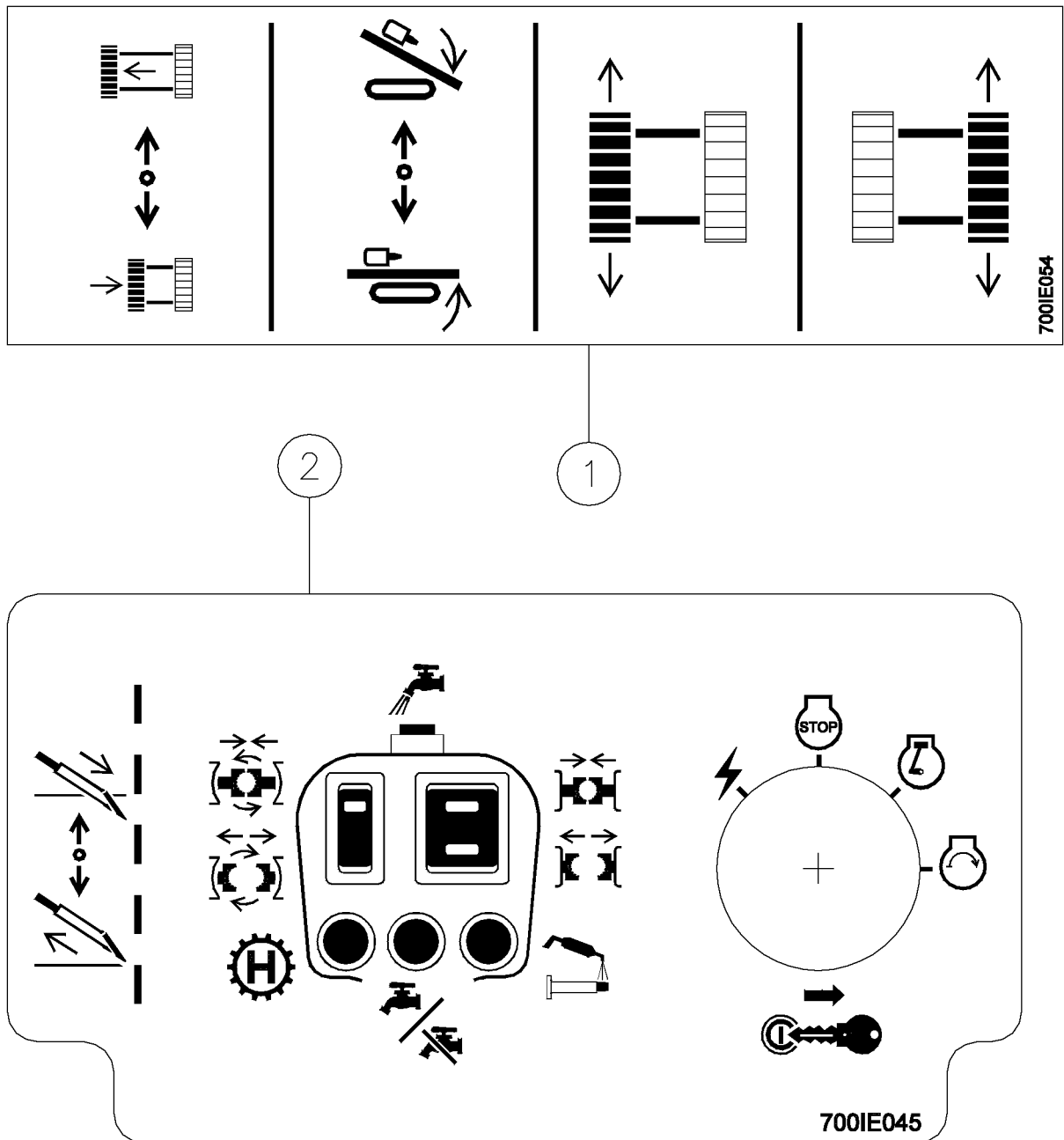
Cosmetic Fig 2-1



Cosmetic Fig 2-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		2326595	DECAL VERMEER- 4 1/2 X 24	1	
2		7000F085	DECAL - 9 X 13II STRIPE	1	
3		7000A010	DECAL-MODEL NAVIGATOR(MEDIUM)	1	
3		70000615	DECAL-MODEL NAVIGATOR (SMALL)	1	
4		7000C325	DECAL - SERIES II (10")	1	

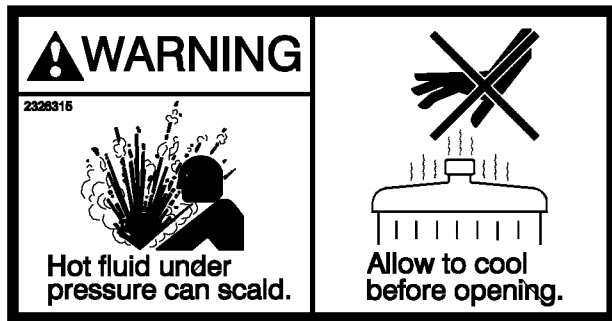
Control Fig 2-2



Control Fig 2-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		700IE054	DECAL - CONTROL, REAR TRANSPORT	1	
2		700IE045	DECAL - CONTROL, RIGHT HAND JOYSTICK, D9X13	1	

Safety Fig 2-3



1

3

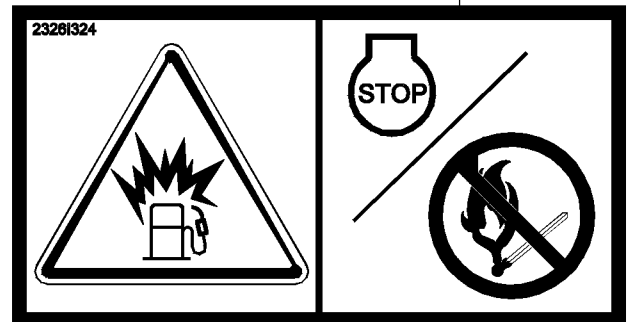


2

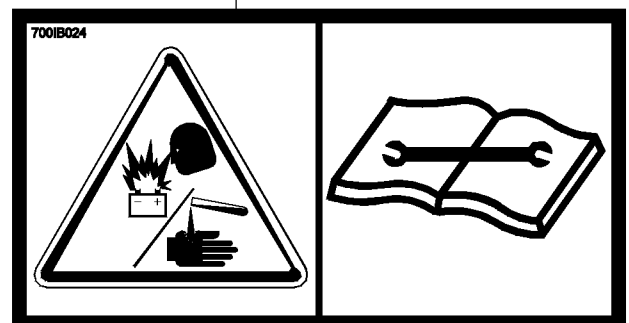
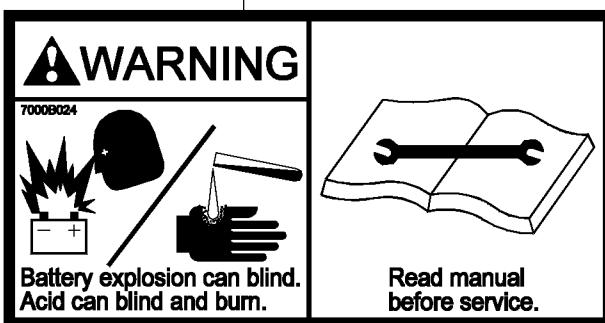
4



5



6



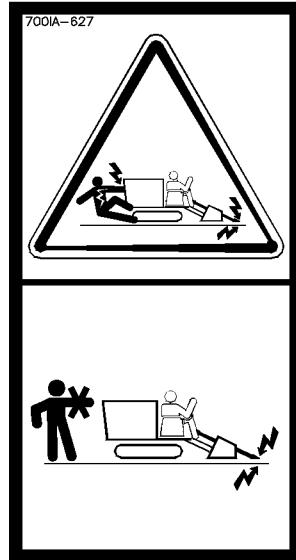
Safety Fig 2-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		2326315	DECAL-WARNING	1	Domestic
2		2326I315	DECAL-WARNING	1	International
3		2326324	DECAL-WARNING/REFUEL	1	Domestic
4		2326I324	DECAL - WARNING EXPLOSION	1	International
5		7000B024	DECAL - WARNING	1	Domestic
6		700IB024	DECAL - WARNING	1	International

Safety Fig 2-4



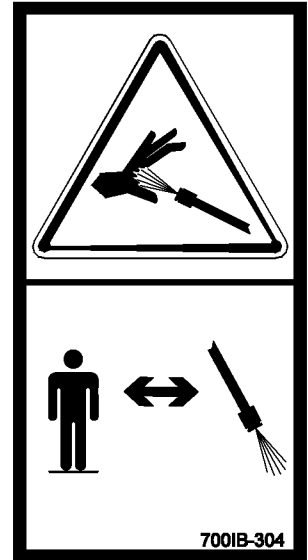
1



2



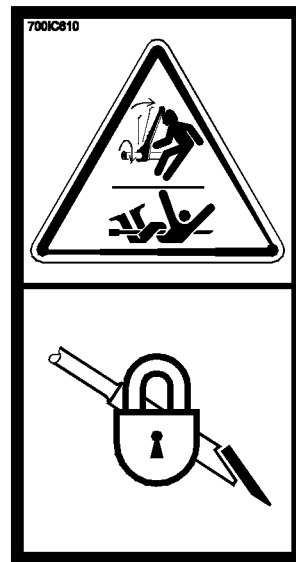
3



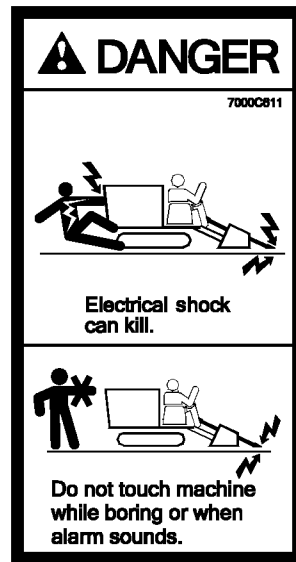
4



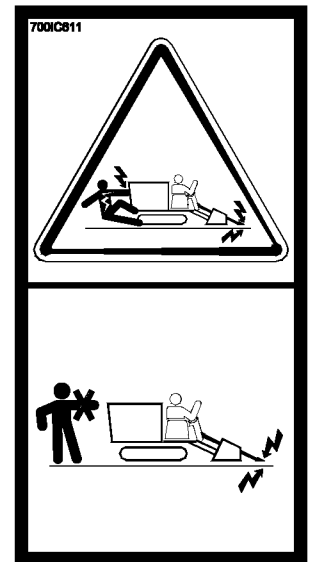
5



6



7

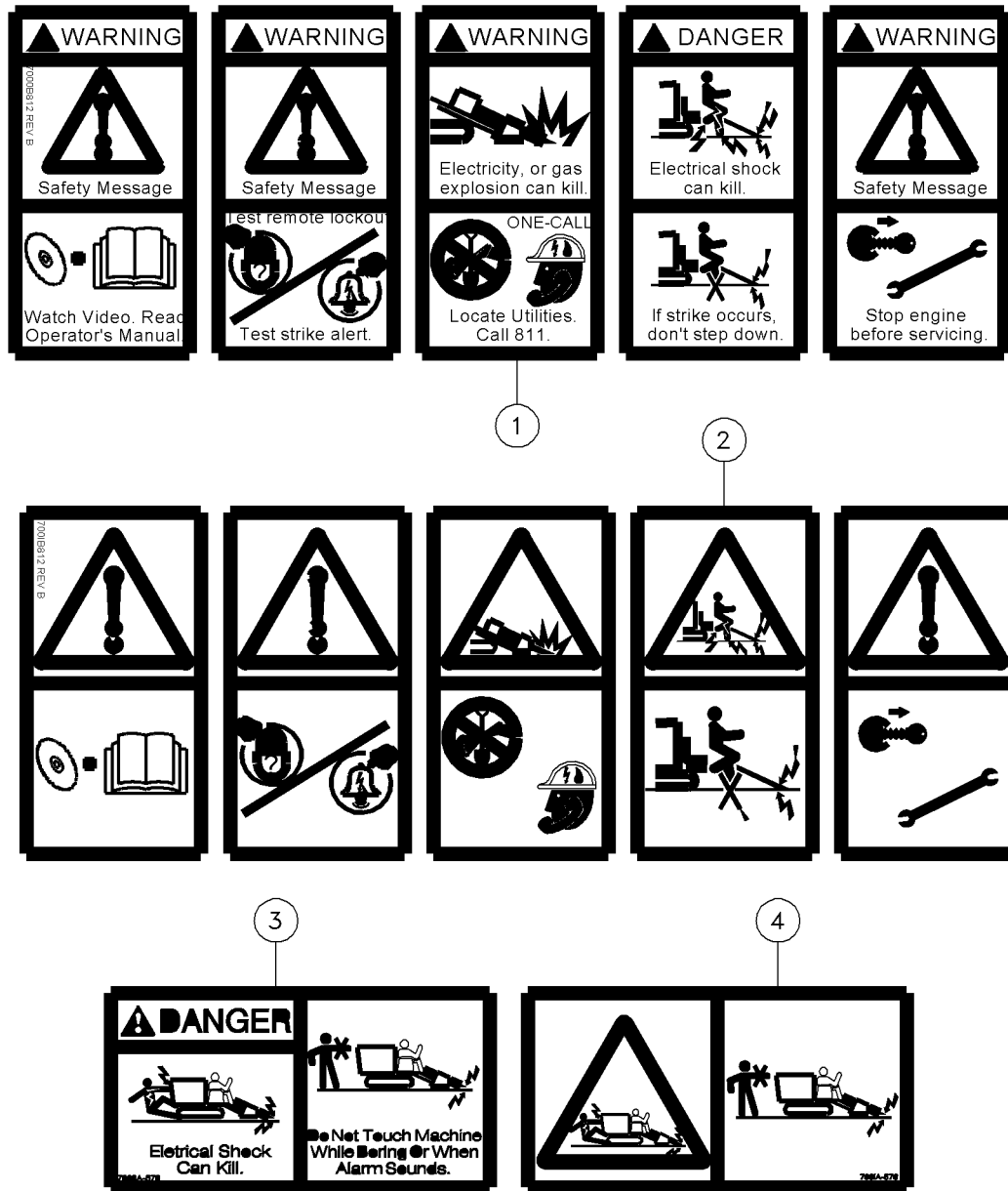


8

Safety Fig 2-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000A627	DECAL-DANGER	1	Domestic
2		700IA627	DECAL-DANGER	1	International
3		7000B304	DECAL - WARNING	1	Domestic
4		700IB304	DECAL - WARNING	1	International
5		7000C610	DECAL - DANGER	1	Domestic
6		700IC610	DECAL - WARNING	1	International
7		7000C611	DECAL - DANGER	1	Domestic
8		700IC611	DECAL - WARNING	1	International

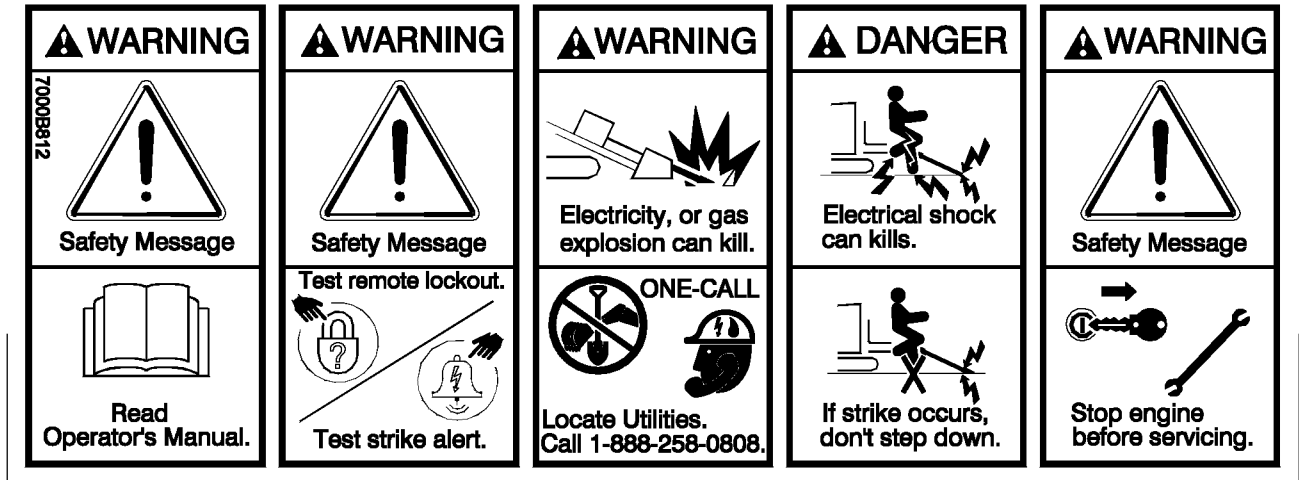
Safety (S/N 133-) Fig 2-5r01



Safety (S/N 133-) Fig 2-5r01

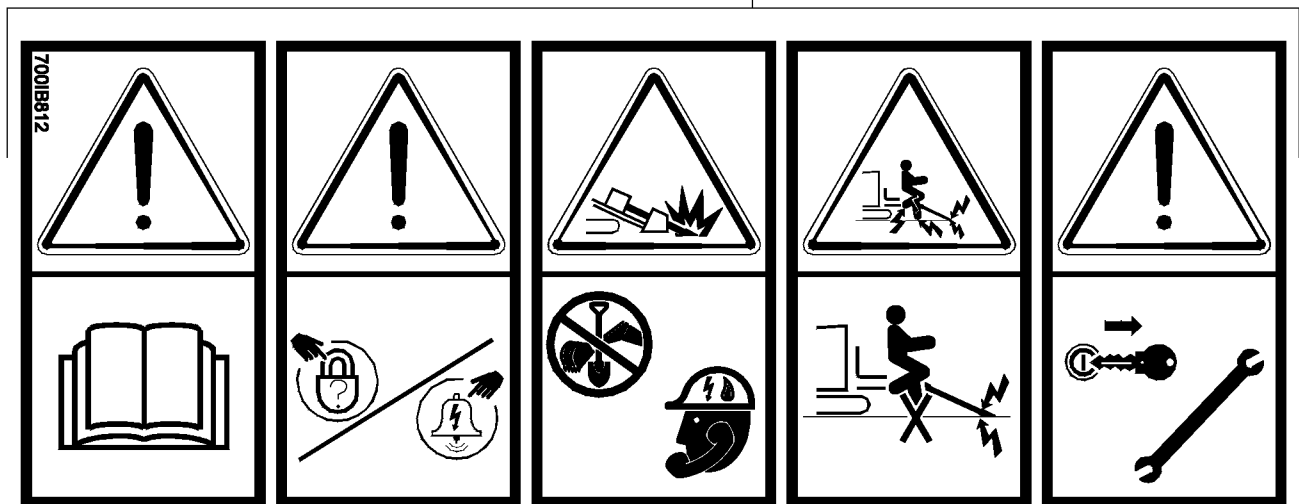
REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000B812	*DECAL - WARNING	1	Domestic (133-)
2		700IB812	*DECAL - WARNING	1	International (133-)
3		7000A576	DECAL-DANGER	1	Domestic
4		700IA576	DECAL-DANGER	1	International

Safety (S/N 101-132) Fig 2-5



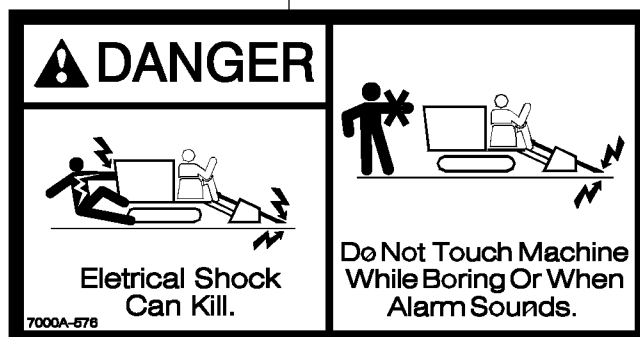
1

2



3

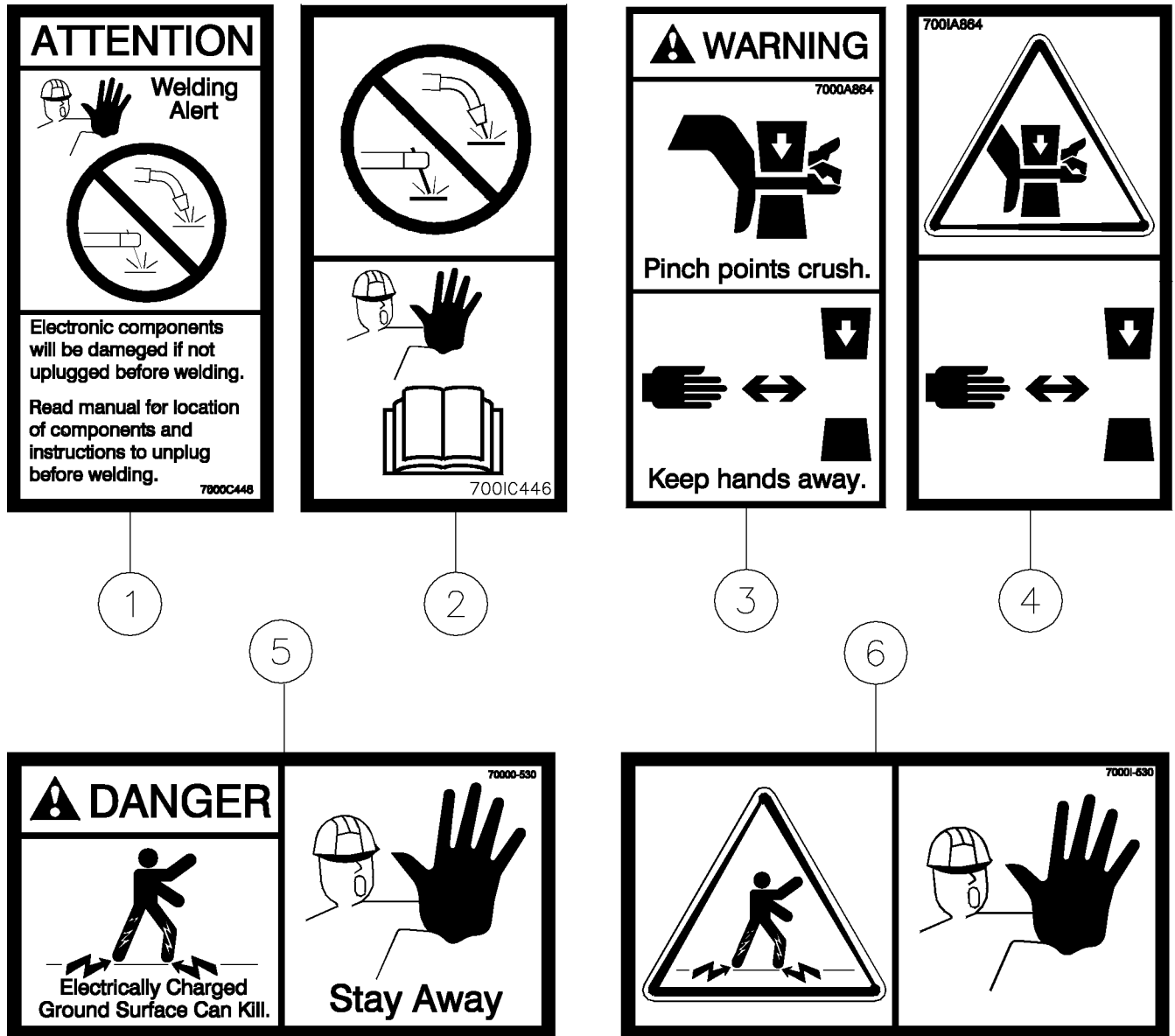
4



Safety (S/N 101-132) Fig 2-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000B812	DECAL - WARNING	1	Domestic
2		700IB812	DECAL - WARNING	1	International
3		7000A576	DECAL-DANGER	1	Domestic
4		700IA576	DECAL-DANGER	1	International

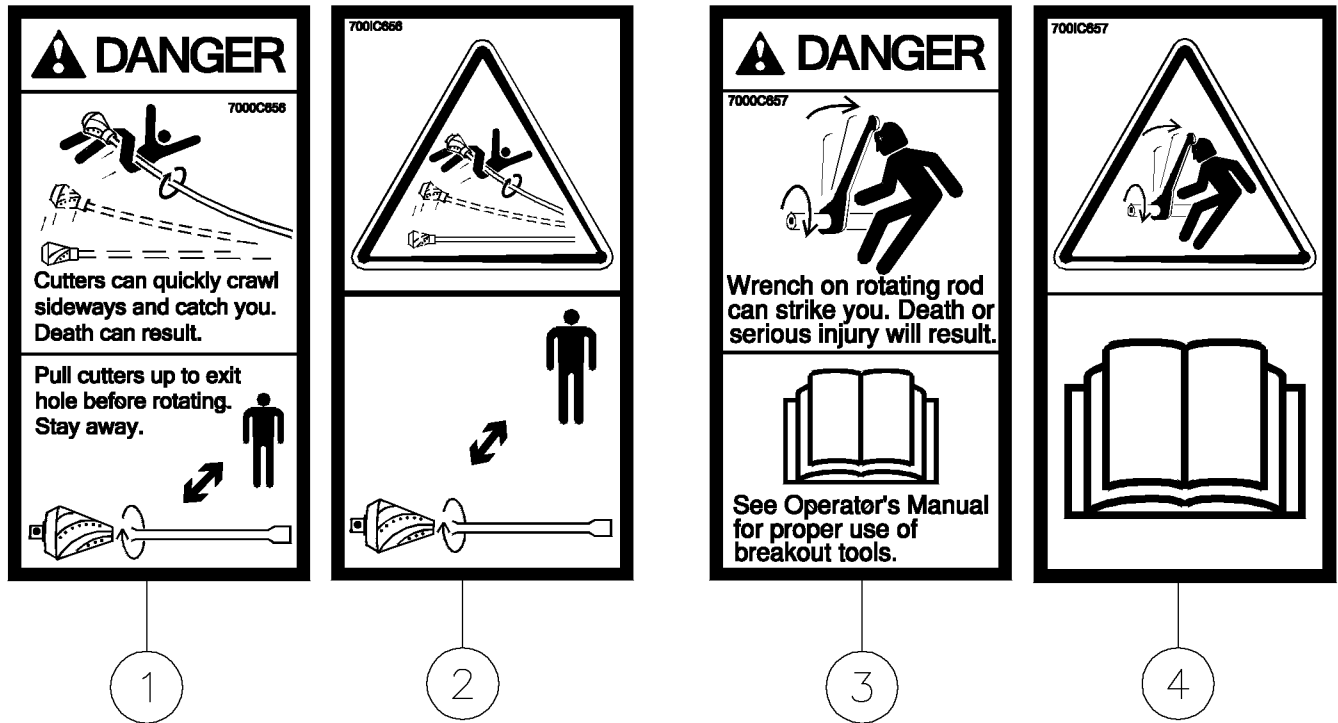
Safety Fig 2-6



Safety Fig 2-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000C446	DECAL - NO WELD	1	Domestic
2		700IC446	DECAL - NO WELD	1	International
3		7000A864	DECAL-WARNING DOMESTIC	1	
4		700IA864	DECAL - WARNING INTERNATIONAL	1	
5		70000530	DECAL-DANGER	1	Domestic
6		7000I530	DECAL- DANGER	1	International

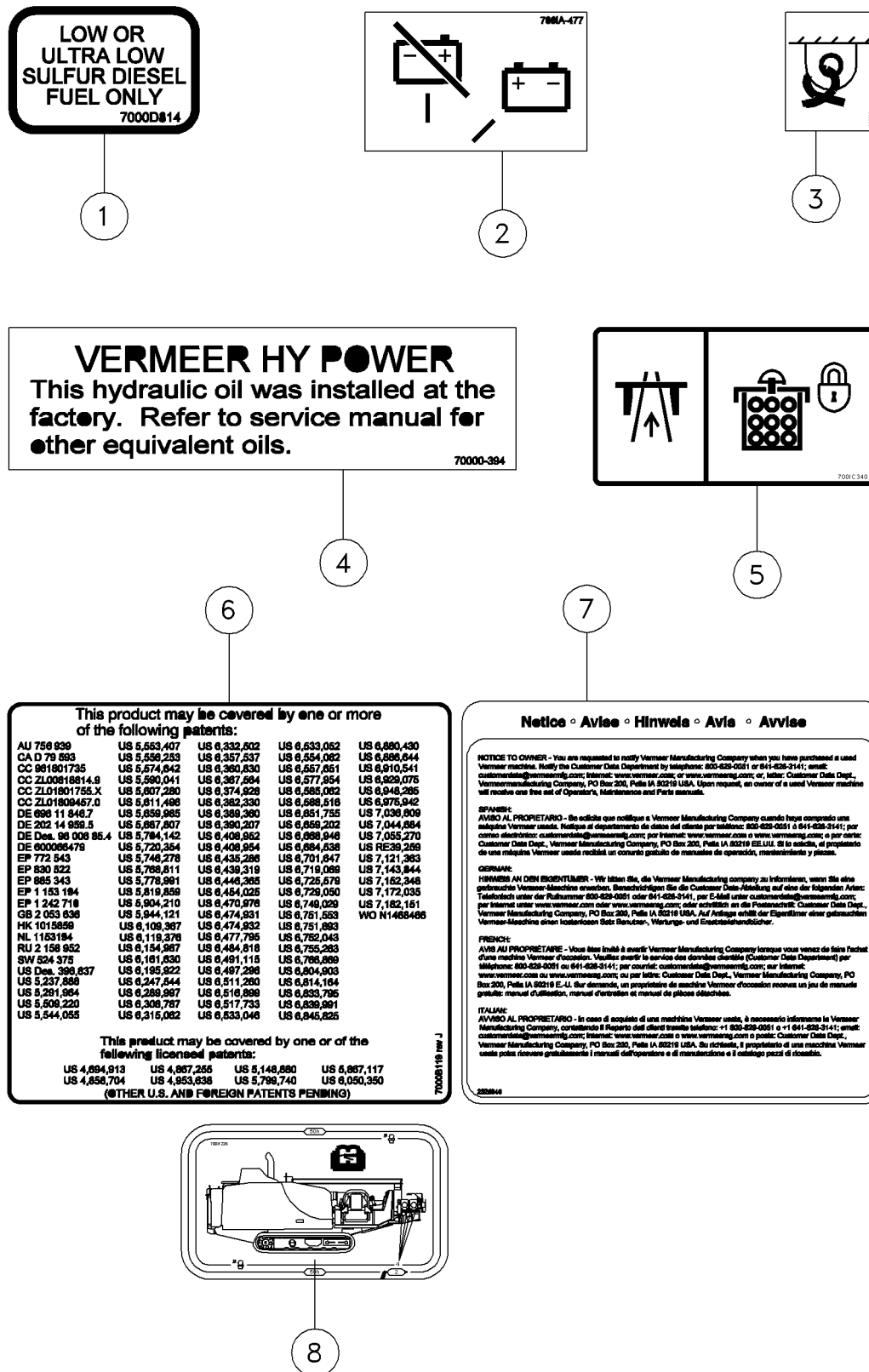
Safety Fig 2-7



Safety Fig 2-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000C656	DECAL - DANGER	1	Domestic
2		700IC656	DECAL - WARNING	1	International
3		7000C657	DECAL - DANGER	1	Domestic
4		700IC657	DECAL - WARNING	1	International

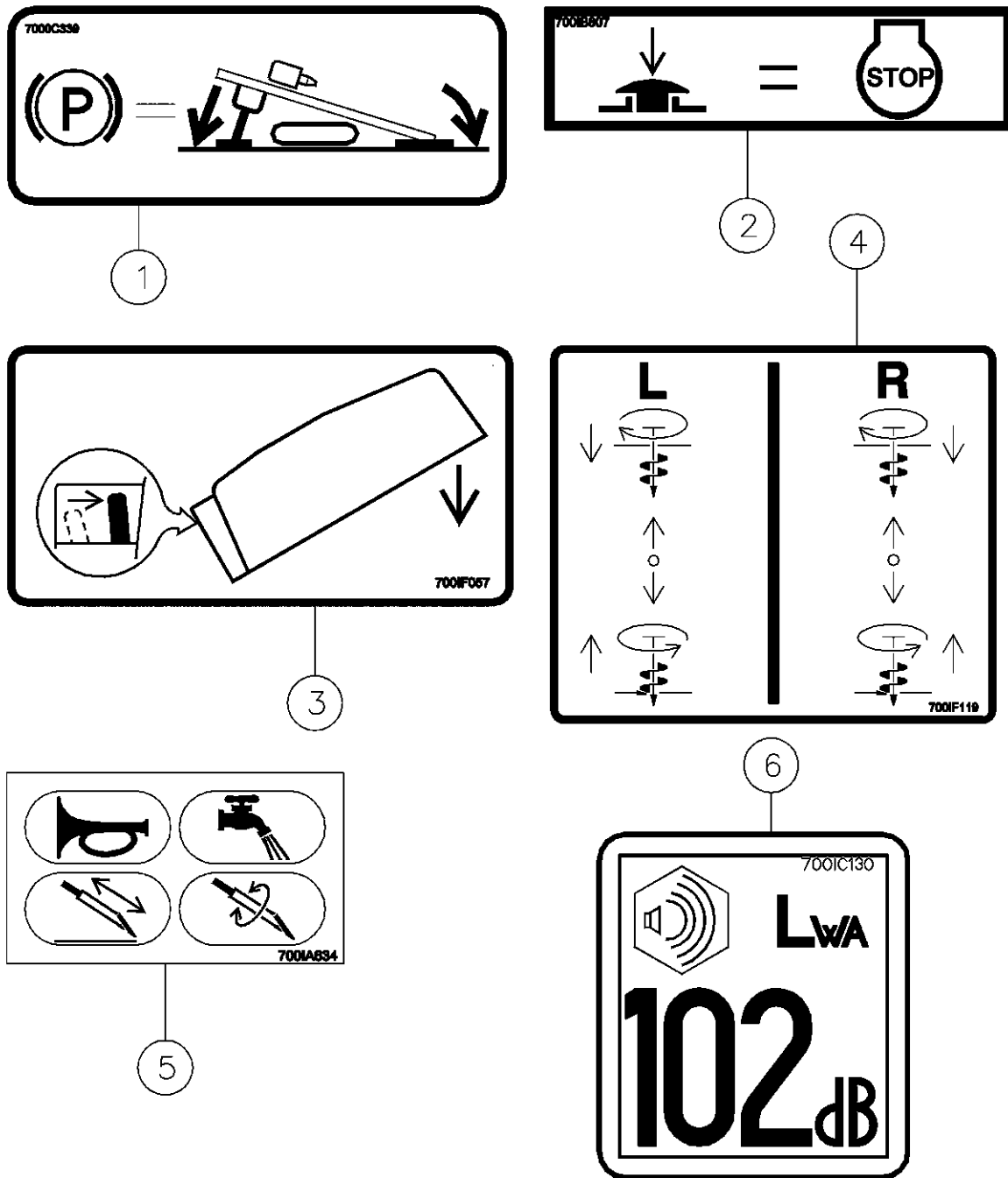
Miscellaneous Fig 2-8



Miscellaneous Fig 2-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000D814	DECAL - DIESEL FUEL SPECIFICATION	1	
2		700IA477	DECAL - BATTERY SWITCH (UG)	1	
3		7000I834	DECAL - TIE DOWN POINT	3	
4		70000394	DECAL-VERMEER HY POWER	1	
5		700IC340	DECAL - ROD BOX	1	
6		7000B119	DECAL - PATENT INDUSTRIAL	1	
7		2326940	DECAL-NOTICE TO OWNERS	1	
8		700IF226	*DECAL - GREASE CHART, D9X13II	1	

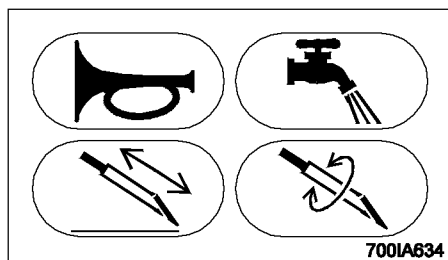
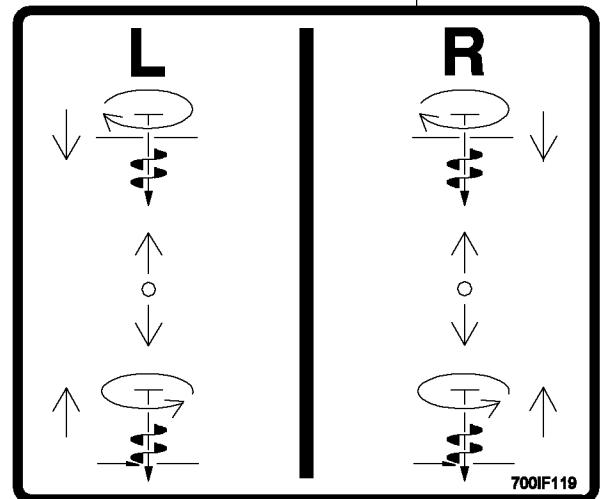
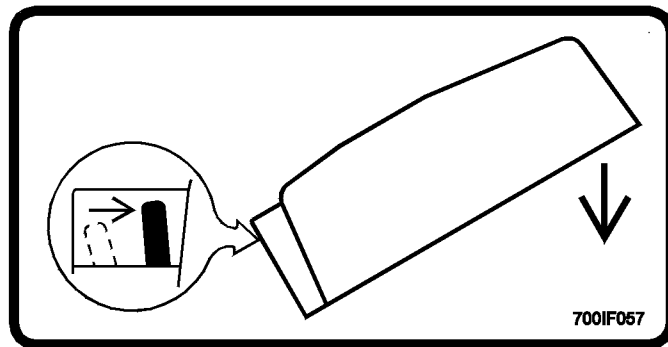
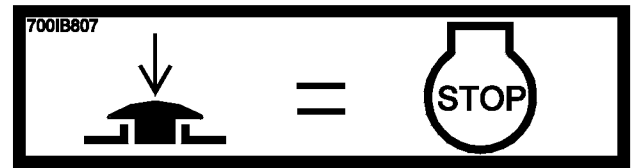
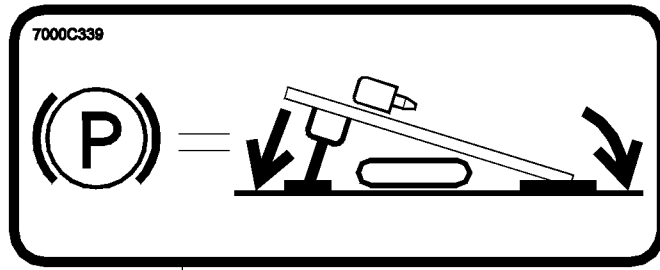
Miscellaneous Fig 2-9r01



Miscellaneous Fig 2-9r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000C339	DECAL - PARKING	1	
2		700IB807	DECAL - E-STOP	1	
3		700IF057	DECAL - HOOD LATCH	1	
4		700IF119	DECAL-STAKEDOWN	1	
5		700IA634	DECAL-GAUGES	1	
6		700IC130	*DECAL - SOUND POWER LEVEL (102)	1	

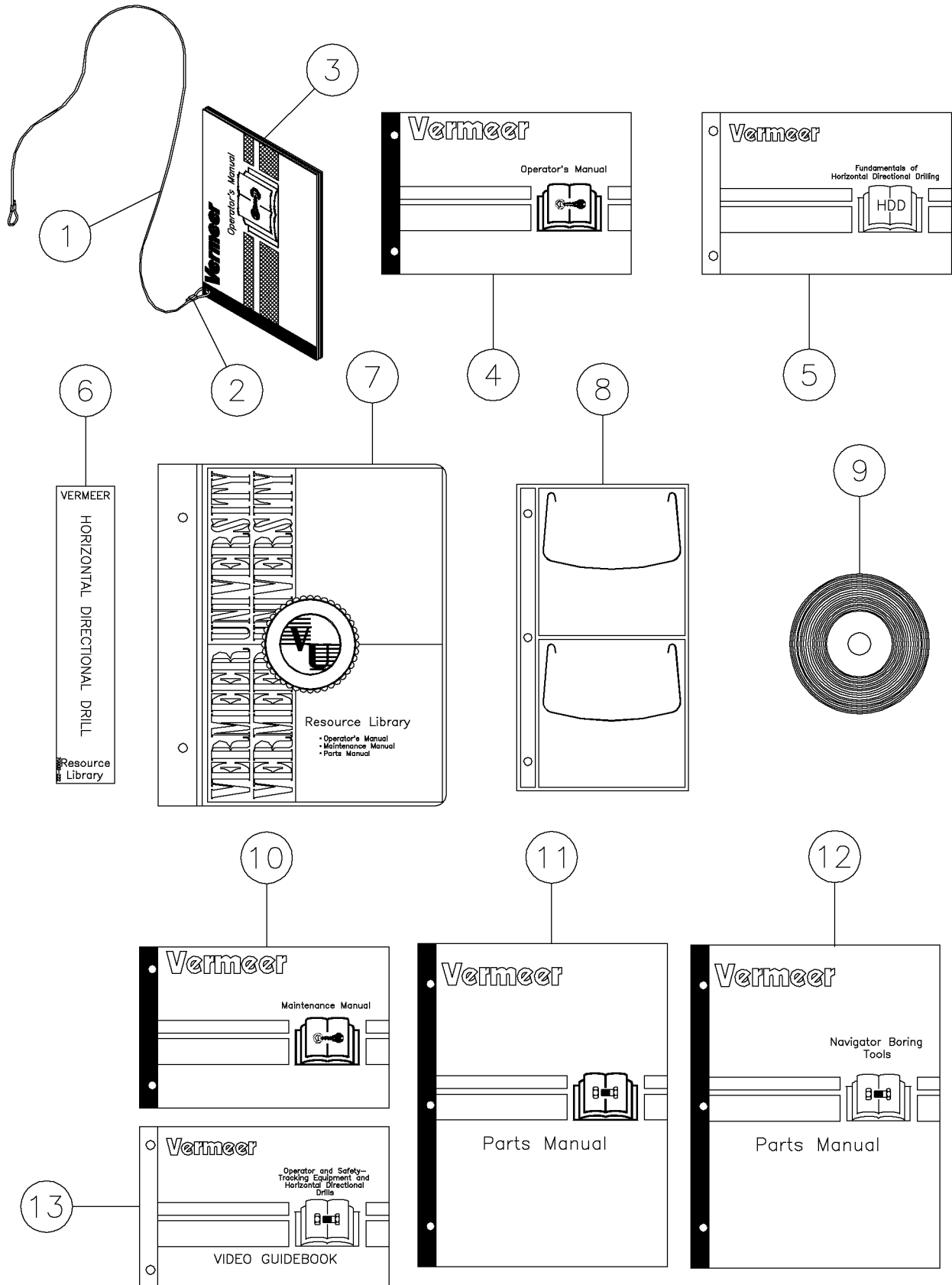
Miscellaneous Fig 2-9



Miscellaneous Fig 2-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		7000C339	DECAL - PARKING	1	
2		700IB807	DECAL - E-STOP	1	
3		700IF057	DECAL - HOOD LATCH	1	
4		700IF119	DECAL-STAKEDOWN	1	
5		700IA634	DECAL-GAUGES	1	
6		700IC284	*DECAL - SOUND POWER LEVEL (102)	1	

Resource Library Fig 2-10

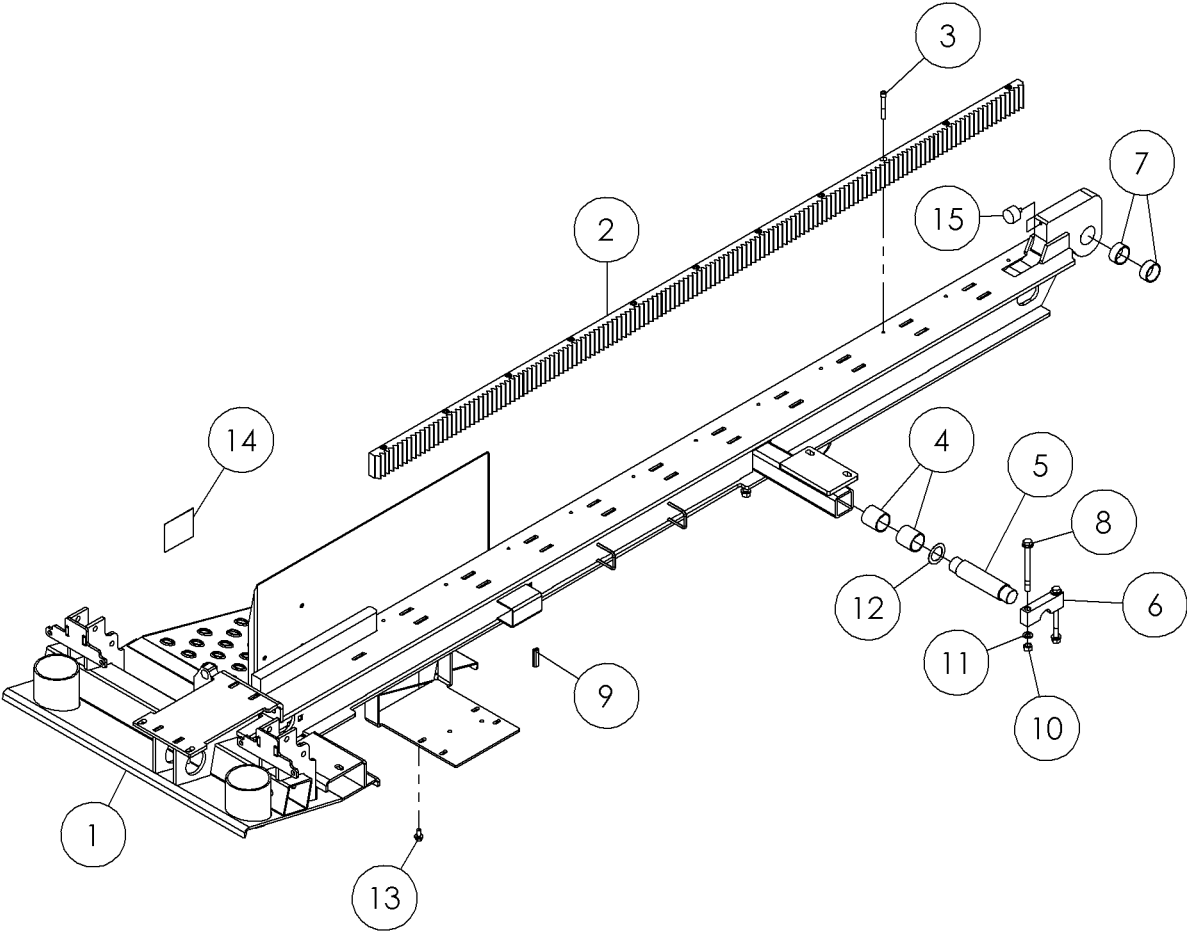


Resource Library Fig 2-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		142954001	CABLE-.068DIA.NYLON CT.-36.00	1	
2		142423001	CRIMP-CABLE (FOR.068DIA.CABLE)	2	
3		296331585	MANUAL ASSY - D9X13 CABLED, 4.00	1	Includes Ref. 1 & 2
4		105400AX5	OM-D9X13 (EN) o1.00	1	
5		105400W26	FUNDAMENTALS OF HDD UP o1.00	1	
6		7000B222	DECAL -HORIZONTAL DRILL - RESOURCE LIB.	1	
7		144144001	NOTEBOOK BINDER - 2"-3 XCX	1	
8		180010788	DVD - HOLDER	1	
9		296296910	DVD-NTSC VIDEO HDD OPERATIONS&FIRESTICK(INCL SPAN)	1	
10		105400AX7	MM-D9X13 (EN) m1.00	1	
11		105400ZQW	D9X13 PM ED 1.00	1	
12		105400T09	PM - NAVIGATOR BORING TOOLS p1.00	1	
13		105400T90	HDD OPERATIONS & SAFETY VIDEO GUIDEBOOK	1	

Rack (SN 152-) Fig 3-1r01

Illustration No. 296299231

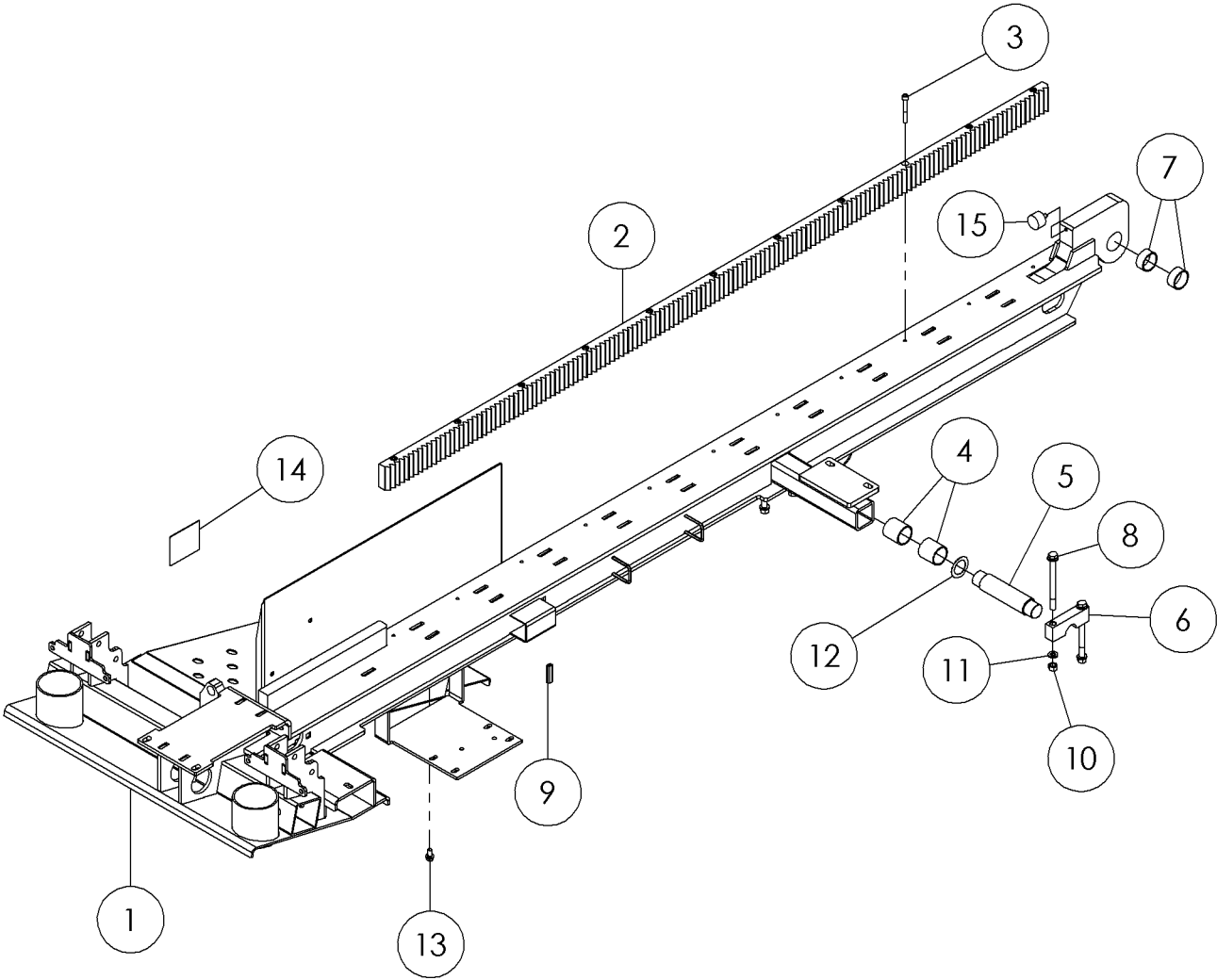


Rack (SN 152-) Fig 3-1r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296299232	*WELDMENT - RACK	1	(152-)
2		296271385	RACK GEAR	1	
3		4478026	SCREW-SHCS-.38-16X2.75-GR8-PLN	11	
4		70070005	BEARING - COMPOSITE 2" LONG	2	
5		296319090	PIN-RACK MOUNT	1	
6		296276630	PIVOT-TOP CAP	2	
7		108916001	BEARING - GARMAX 2ODX1 3/4ID-7/8	2	
8		296300937	*SCREW-HFS-.50-13X5.50-GR8-YZ	4	(152-)
9		212522001	TRIM 1/4" EDGE	1	
10		250512001	NUT-TLHEX-.50-13-C-YZ	4	
11		508486012	WASHER-FLATHARD-M12-13.0X24.0-3.0-YZ-D6916	4	
12		510353621	WASHER-MCHBSHG-1.50-1.53X2.25-18G-YZ	2	
13		296300771	SCREW-HFS-.38-16x.75-GR8-YZ	3	
14		700IF119	DECAL - STAKEDOWN	1	
15		122474001	MOUNT-SANDWICH SINGLE STUD	1	

Rack (SN 101-151) Fig 3-1

Illustration No. 296299231

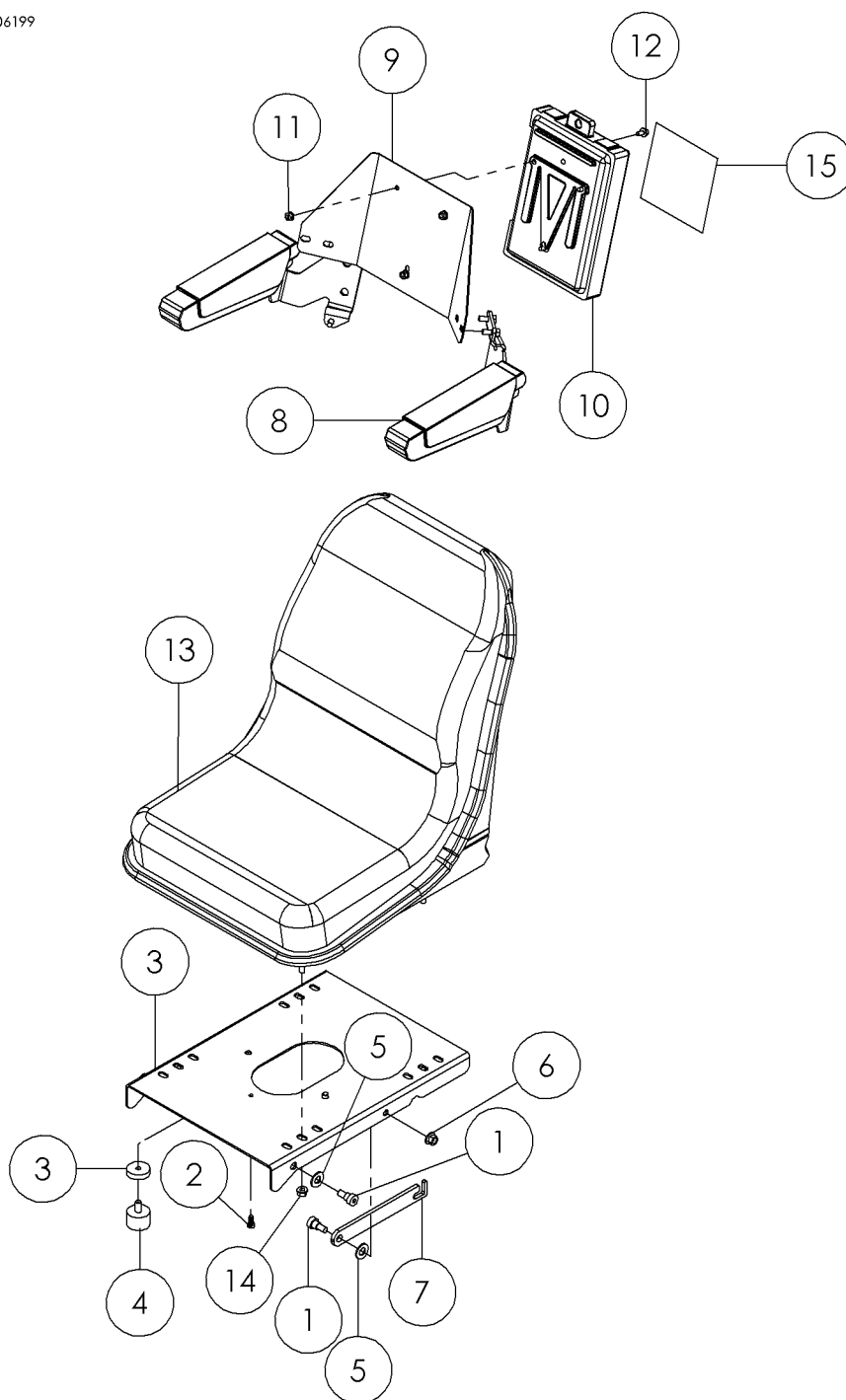


Rack (SN 101-151) Fig 3-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296299232	WELDMENT - RACK	1	
2		296271385	RACK GEAR	1	
3		4478026	CAPSCREW-3/8-16X2 3/4 SOC HD	11	
4		70070005	BEARING-COMPOSITE 2 LONG	2	
5		296319090	PIN - RACK MOUNT	1	
6		296276630	PIVOT TOP CAP	2	
7		108916001	BUSHING-GARMAX 2ODX1 3/4ID-7/8	2	
8		296300916	SCREW-HFS.50-13X6.00-GR8-YZ	4	
9		212522001	TRIM-1/4 EDGE	1	
10		250512001	NUT- 1/2 NC Gr8 TOP LOCK Y/ ZINC	4	
11		508486012	WASHER-FLAT, HARDENED,M12, YZ, DIN6916	4	
12		510353621	WASHER-MCHBSHG-1.50-1.53X2.25-18G-YZ	2	
13		296300771	SCREW-HFS-..38-16X.75GR8-YZ	3	
14		700IF119	DECAL - STAKEDOWN	1	
15		122474001	MOUNT-SANDWICH SINGLE STUD	1	

Seat Fig 3-2

Illustration No. 296306199

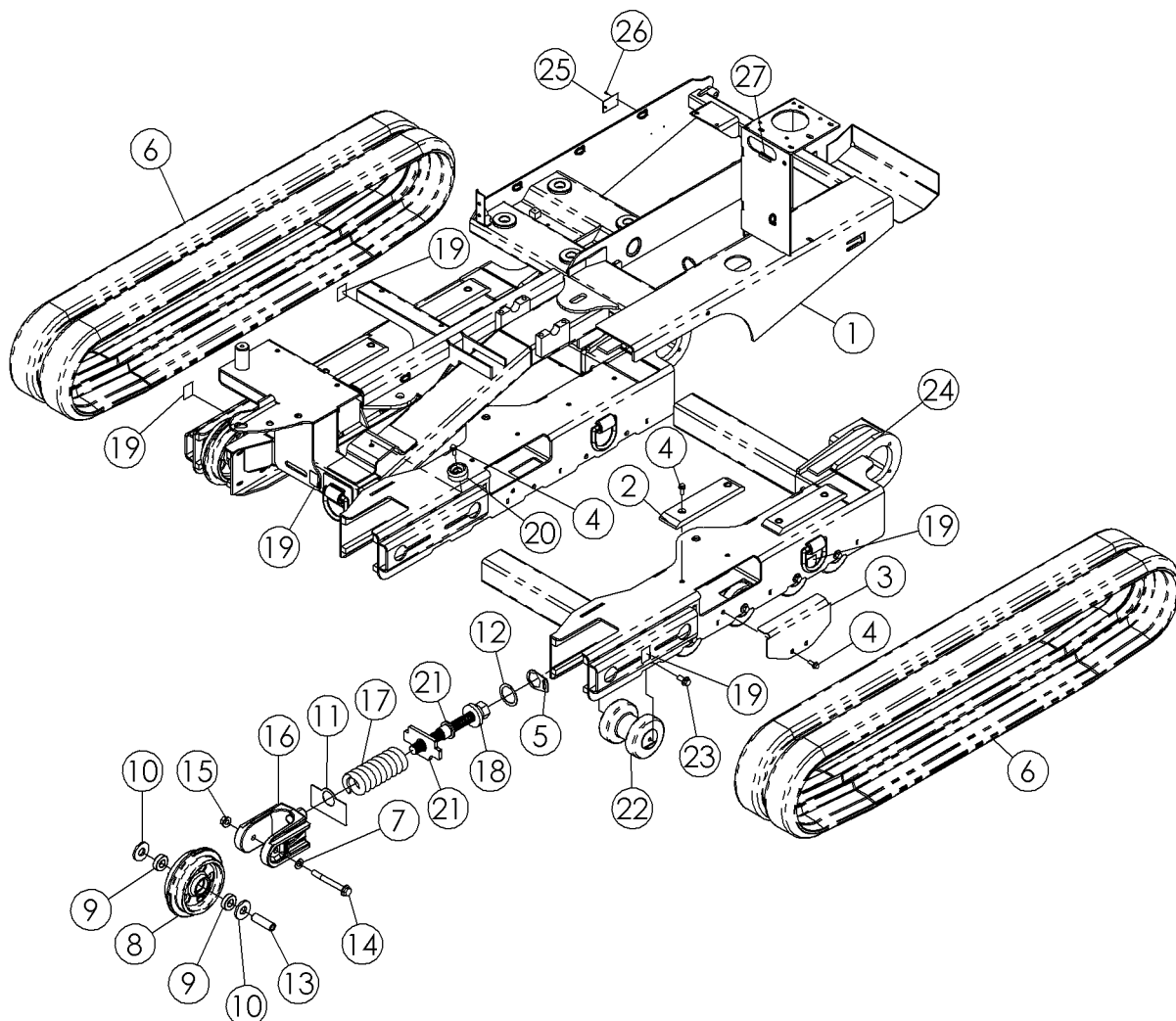


Seat Fig 3-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296256038	SCREW - SHSS - .50X.38-.38-16 THD-CZ	3	
2		278953001	ANCHOR - CABLE TIE	1	
3		296277713	SEAT BASE WELDMENT	1	
4		122474001	MOUNT-SANDWICH SINGLE STUD	2	
5		485025	*WASHER-1/2 FLAT-HARDENED-YZ	3	
6		296300850	NUT-HEXFLGTL-.38-16-G-YZ	1	
7		296306221	PLATE - PROP ROD	1	
8		220238001	KIT-MILSCO OLYMPIC ARM REST	1	
9		235683001	MOUNT-MANUAL BOX	1	
10		142410001	CASE-6"X9 XCX X1" OPERATOR MANUAL	1	
11		296300848	NUT-HEXFLGTL-.25-20-G-YZ	3	
12		296300751	SCREW HFS-.25-20X50GR8-Y2	3	
13		296274289	SEAT - MILSCO XR210 GRAY	1	
13		219186003	*SWITCH-SAFETY	1	Not Shown
13		4473004	*1/4-20X1/2 FLGE WHIZ BOLT	2	Not Shown
14		296300849	NUT-HEXFLGTL-.31-18-G-YZ	4	
15		2326940	DECAL-NOTICE TO OWNERS	1	Domestic/International

Undercarriage (SN 148-) Fig 3-3r01

Illustration No. 296306427

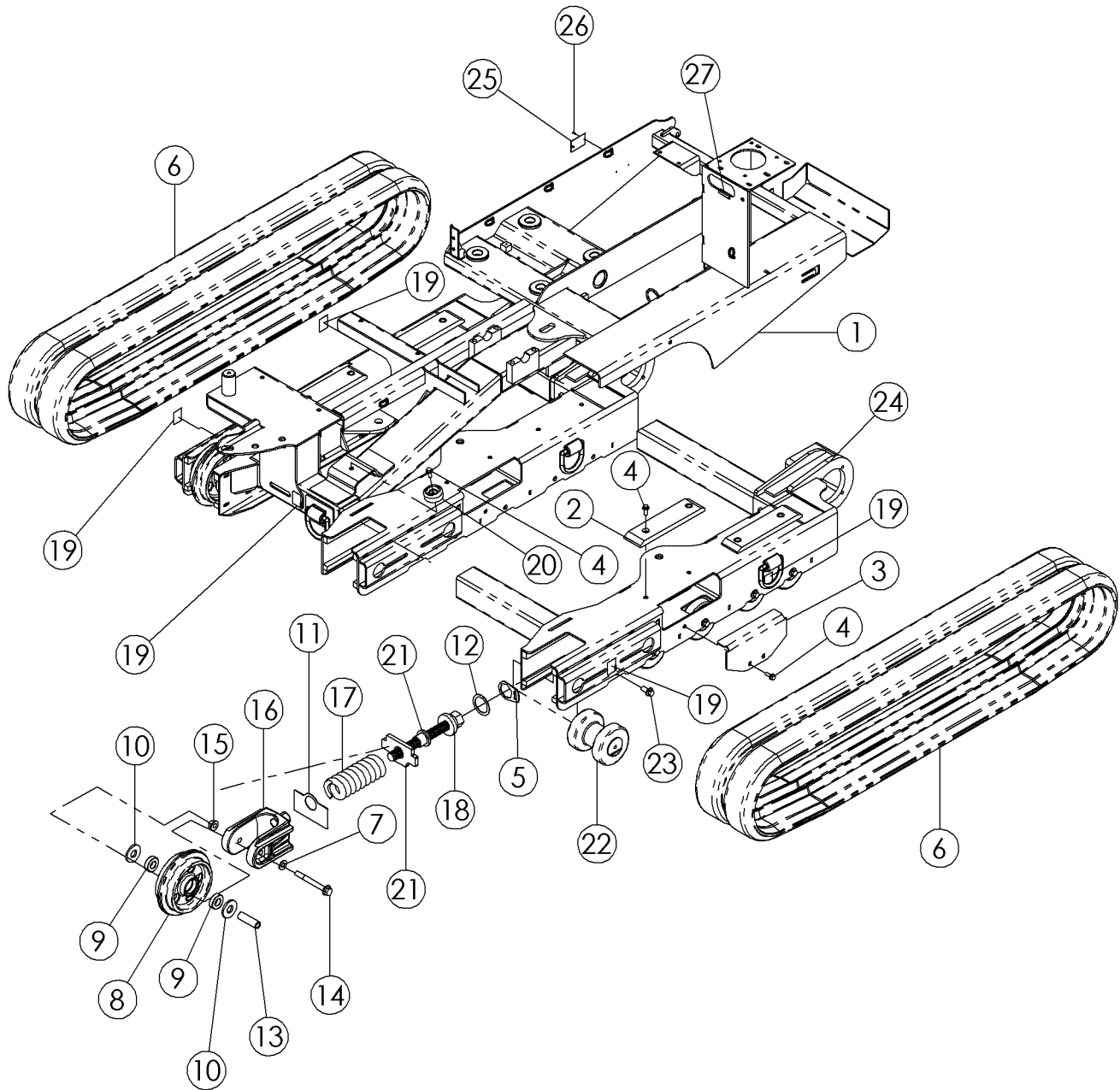


Undercarriage (SN 148-) Fig 3-3r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306430	*WELDMENT - UNDERCARRIAGE	1	(148-)
2		296276616	RAIL - WEAR SHORT	4	
3		296306471	PLATE - TRACK RAIL COVER	2	
4		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	13	
5		296296004	PLATE - NUT LOCK	2	
6		296306420	TRACK - RUBBER 265MM 72P 52L	2	
7		235715001	WASHER-FLATSTRL-5/8" YZ A325	4	
8		296320781	ROLLER - MACHINED IDLER	2	
9		230154001	BEARING-RADIAL BALL 25MM BORE	4	
10		81819001	WASHER-2 1/2ODX1 1/16ID-1/4	4	
11		296296169	PLATE - GUIDE	2	
12		483031	WASHER-3OD X2 1/4ID-14 GA MB	2	
13		296288663	BAR - ROLLER	2	
14		296300813	SCREW-HFS-.63-11X5.50-GR8-YZ	2	
15		296300852	NUT-HEXFLGTL-.63-11-G-YZ	2	
16		296296016	SLIDE IDLER - MACH	2	
17		289057001	SPRING - 3 5/16OD X 8 1/4H X 27/32 W	2	
18		296296003	SCREW - TRACK TIGHTENER	2	
19		7000i834	DECAL - TIE DOWN POINT	5	Domestic/International
20		3035001	BUMPER 2 1/2OD X 1" HIGH RUBR	1	
21		296320806	TIGHTENER - SPRING	2	
22		296320832	ROLLER - BERCO TRACK	10	
23		296300912	SCREW-HFS-M14-2.0X30-10.9-YZ-DIN6921	20	
24		296320924	WELDMENT - LEFT EXTENDABLE TRACK RAIL	1	
25		65390001	SERIAL PLATE BLANK	1	
26		547001	POP RIVET-SS44D	2	
27		212522001	TRIM-1/4 EDGE	1	

Undercarriage (SN 101-147) Fig 3-3

Illustration No. 296306427

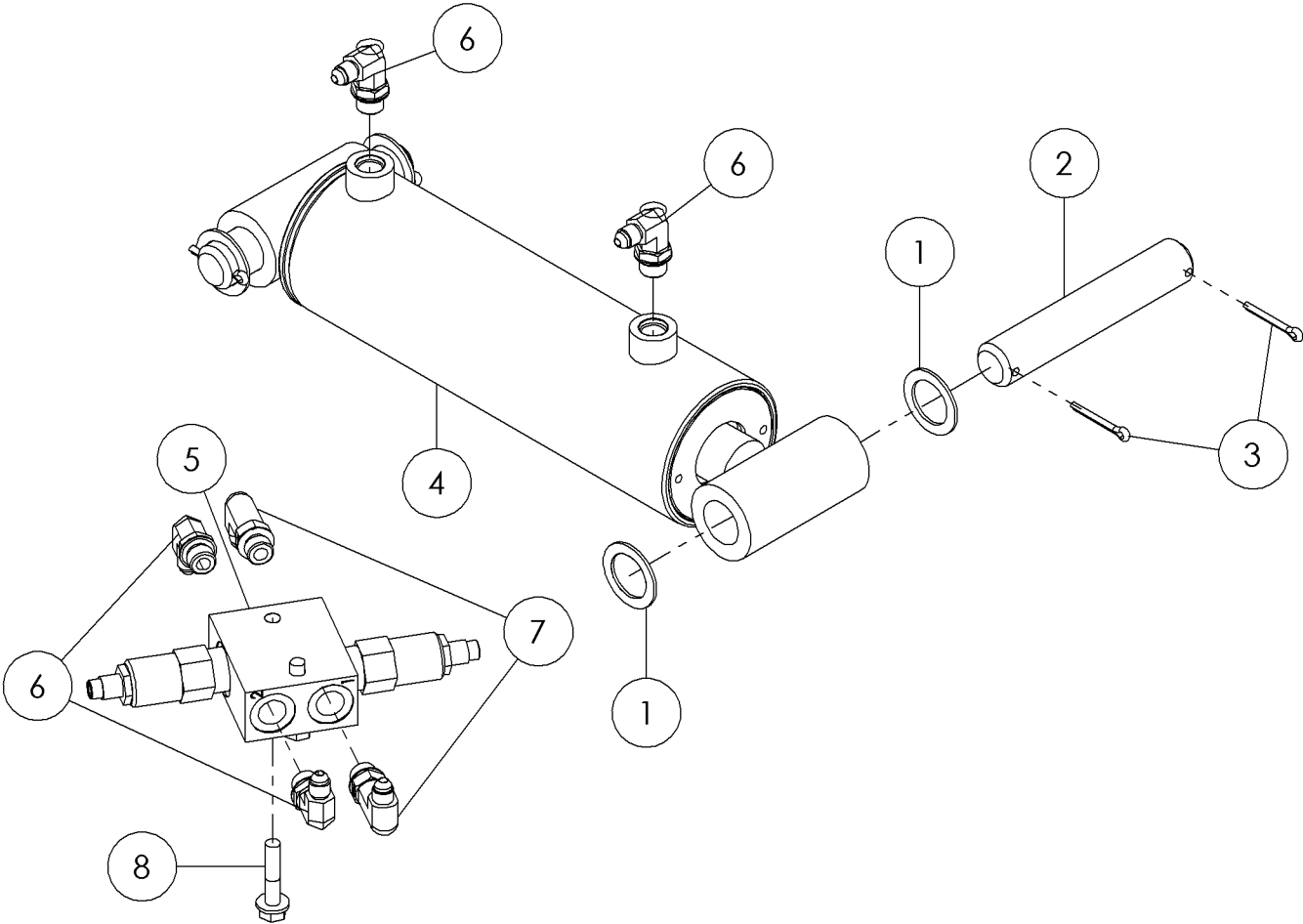


Undercarriage (SN 101-147) Fig 3-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306430	WELDMENT - UNDERCARRIAGE	1	
2		296276616	RAIL - WEAR SHORT	4	
3		296306471	PLATE - TRACK RAIL COVER	2	
4		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	13	
5		296296004	PLATE - NUT LOCK	2	
6		296306420	TRACK - RUBBER 265MM 72P 52L	2	
7		235715001	WASHER-FLATSTRL-5/8" YZ A325	4	
8		296320781	ROLLER - MACHINED IDLER	2	
9		230154001	BEARING-RADIAL BALL 25MM BORE	4	
10		81819001	WASHER-2 1/2ODX1 1/16ID-1/4	4	
11		296296169	PLATE - GUIDE	2	
12		483031	WASHER-3OD X2 1/4ID-14 GA MB	2	
13		296288663	BAR - ROLLER	2	
14		296300813	SCREW-HFS-.63-11X5.50-GR8-YZ	2	
15		296300852	NUT-HEXFLGTL-.63-11-G-YZ	2	
16		296296016	SLIDE IDLER - MACH	2	
17		289057001	SPRING - 3 5/16OD X 8 1/4H X 27/32 W	2	
18		296296003	SCREW - TRACK TIGHTENER	2	
19		7000i834	DECAL - TIE DOWN POINT	5	
20		3035001	BUMPER 2 1/2OD X 1" HIGH RUBR	1	
21		296320806	TIGHTENER - SPRING	2	
22		296320832	ROLLER - BERCO TRACK	10	
23		296300912	SCREW-HFS-M14-2.0X30-10.9-YZ-DIN6921	20	
24		296320924	WELDMENT - LEFT EXTENDABLE TRACK RAIL	1	
25		65390001	*SERIAL PLATE BLANK	1	
26		547001	*POP RIVET-SS44D	2	
27		212522001	*TRIM-1/4 EDGE	1	

Cylinder-Track Extend Fig 3-4

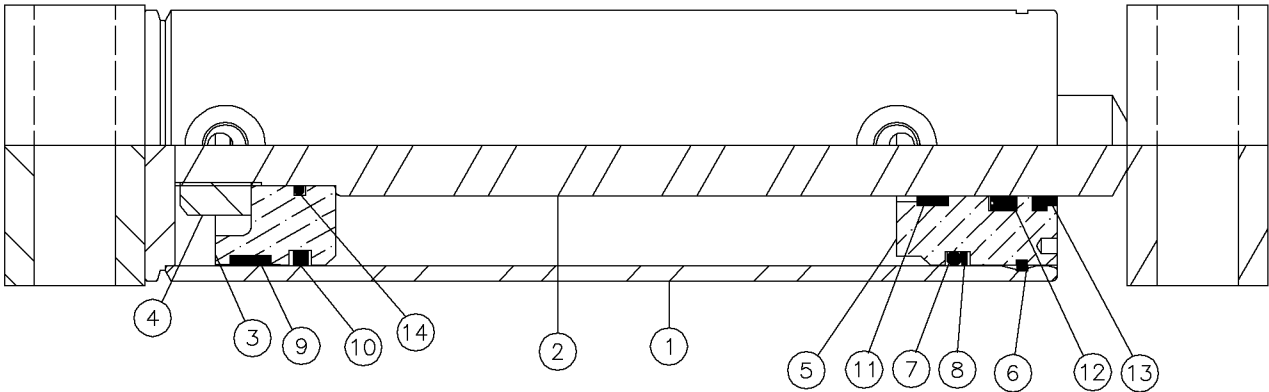
Illustration No. 296320813



Cylinder-Track Extend Fig 3-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		483005	WASHER-1 1/2X1X14 GA M.B. ZINC	4	
2		211232001	PIN-CYLINDER	2	
3		510019	COTTER PIN-5/32" X 2"	4	
4		296288566	CYL - 3.00 BORE X 1.25 ROD X 7.00 STROKE	1	Breakdown Fig. 3-4z01
5		163621856	MAINIFOLD - CROSSOVER RELIEF - 8 GPM	1	Breakdown Fig. 3-4z02
6		57950001	*FITTING - 90-6MORBA-4MJ	4	
7		296327017	*FITTING - 90 - 6MORBA X 4MJ - LONG	2	
8		296300765	SCREW-FS-.31-18X1.50-GR8-YZ	2	

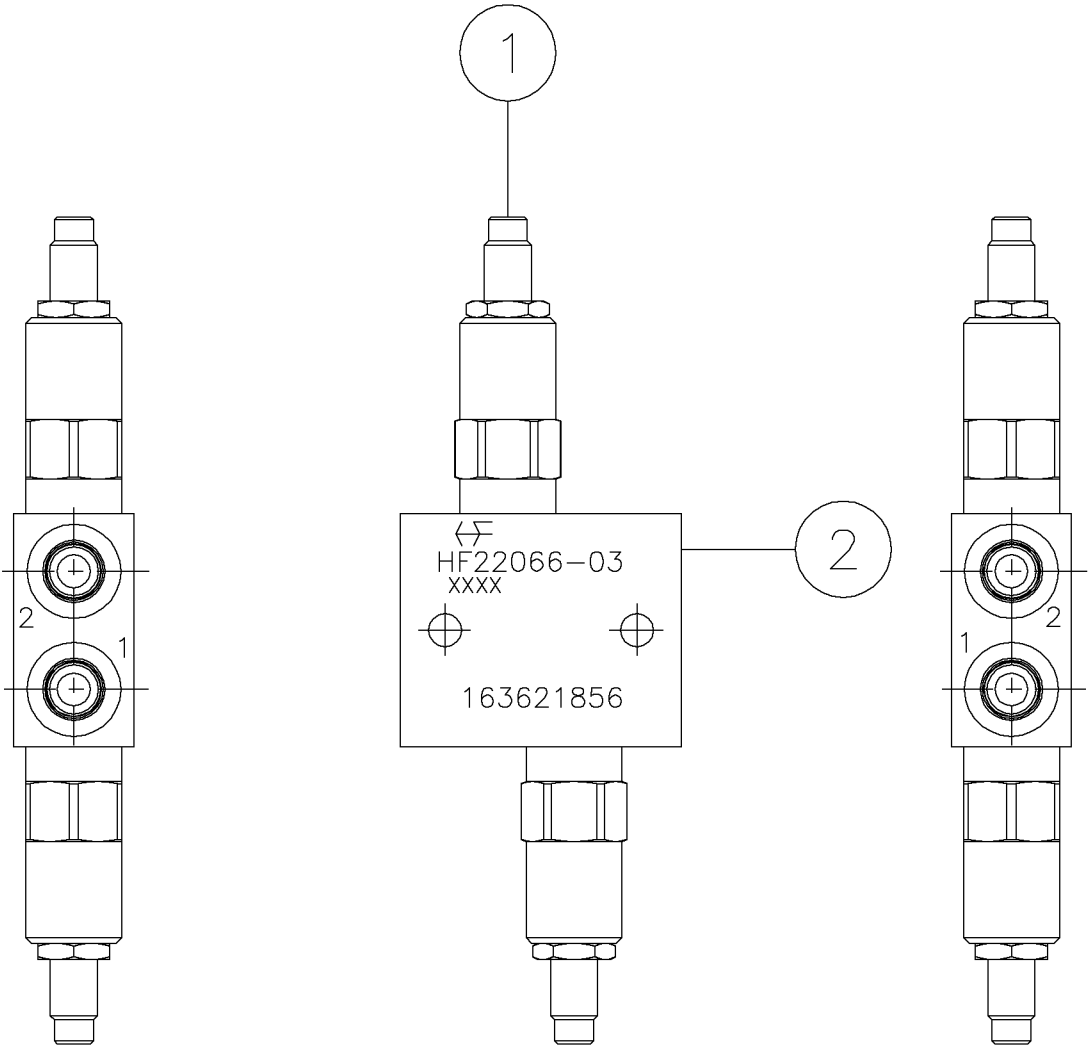
Components-Cylinder Fig 3-4z01



Components-Cylinder Fig 3-4z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1			3" BARREL ASSY	1	Not Sold Separately
2		296302280	1 1/4" SHAFT ASSY	1	
3			3" PISTON 1" SHAFT CUT (PSP/WRG)	1	Not Sold Separately
4			1" FULL LOCK NUT	1	Not Sold Separately
5			3" MD HEAD 1 1/4" SHAFT (PPS/WRG)	1	Not Sold Separately
6			1/8" KEY STOCK	1	Not Sold Separately
7			O-RING	1	Not Sold Separately
8			BACKUP	1	Not Sold Separately
9			WEAR RING	1	Not Sold Separately
10			PSP SEAL	1	Not Sold Separately
11			WEAR RING	1	Not Sold Separately
12			BS SEAL	1	Not Sold Separately
13			DUST SEAL	1	Not Sold Separately
14			O-RING	1	Not Sold Separately
		296288566	CYL - 3.00 BORE X 1.25 ROD X 7.00 STROKE	1	Inc. All Items In Figure.
		296302293	REPAIR KIT		Inc. All Items 7 Thru 14

Components-Manifold Crossover Relief Fig 3-4z02

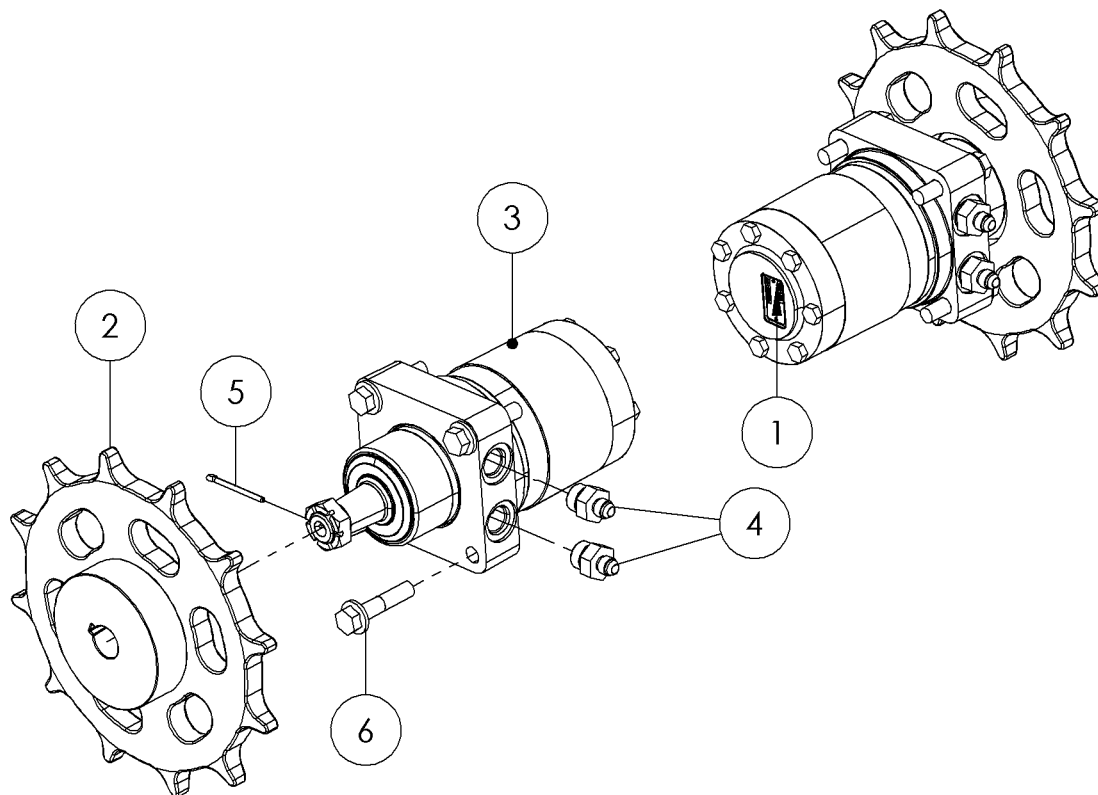


Components-Manifold Crossover Relief Fig 3-4z02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		163620356	RELIEF VALVE 7/5.0	2	
1		230843007	REPAIR KIT	2	
2			BLOCK 7070160	1	NOT SOLD SEPARATELY
		163621856	MAINIFOLD - CROSSOVER RELIEF - 8 GPM		Include All Items In Figure
		163620363	SEAL KIT		

Track Drive Hydraulic Motor Fig 3-5r01

Illustration No. 296306457

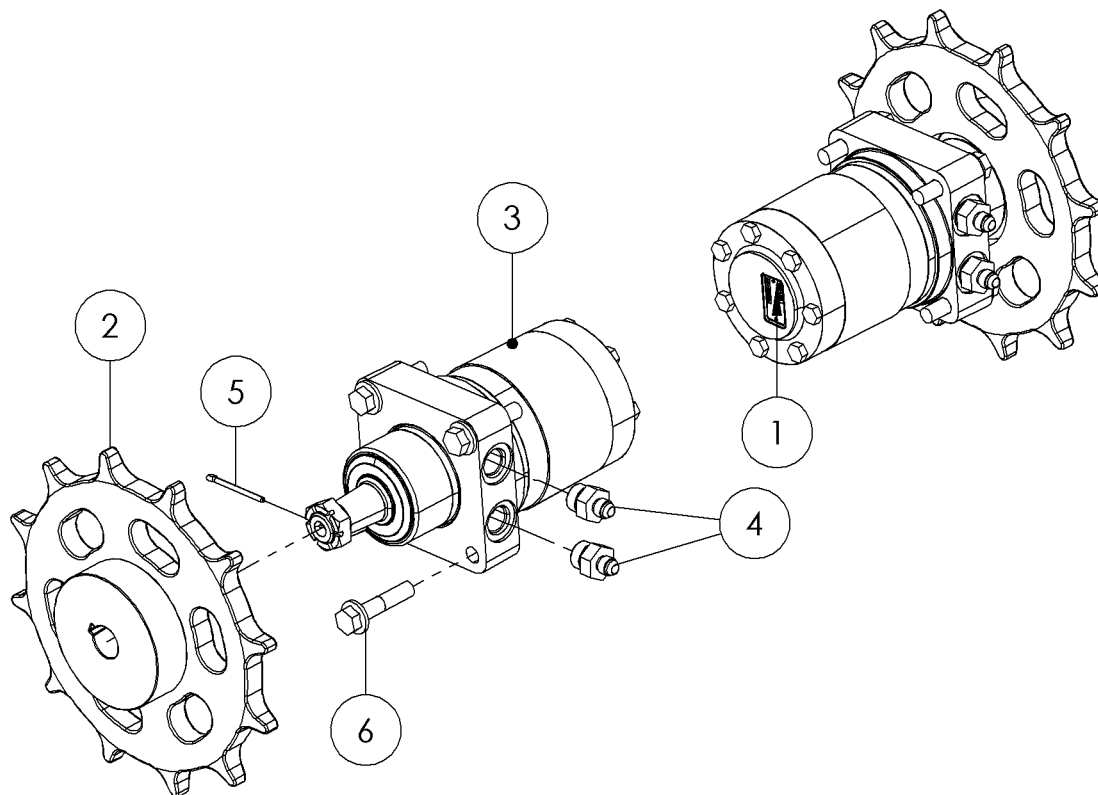


Track Drive Hydraulic Motor Fig 3-5r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296297023	MOTORWHEEL -542 CC STD ROTATION DELTA SERIES- LEFT	1	Breakdown Figure 3-5z01
2		296319065	WELDMENT - DRIVE SPOCKET	2	
3		296297024	MOTOR-WHEEL -542 CC REV.ROTATION DELTA SERIES - RT	1	Breakdown Figure 3-5z02
4		57946001	10MX#6JIC ST ADAPTER	4	
5		510338819	COTTER PIN-5/32" X 2"-YZ	2	
6		296300793	SCREW-HFS-.50-13X2.25-GR8-YZ	8	

Track Drive Hydraulic Motor Fig 3-5

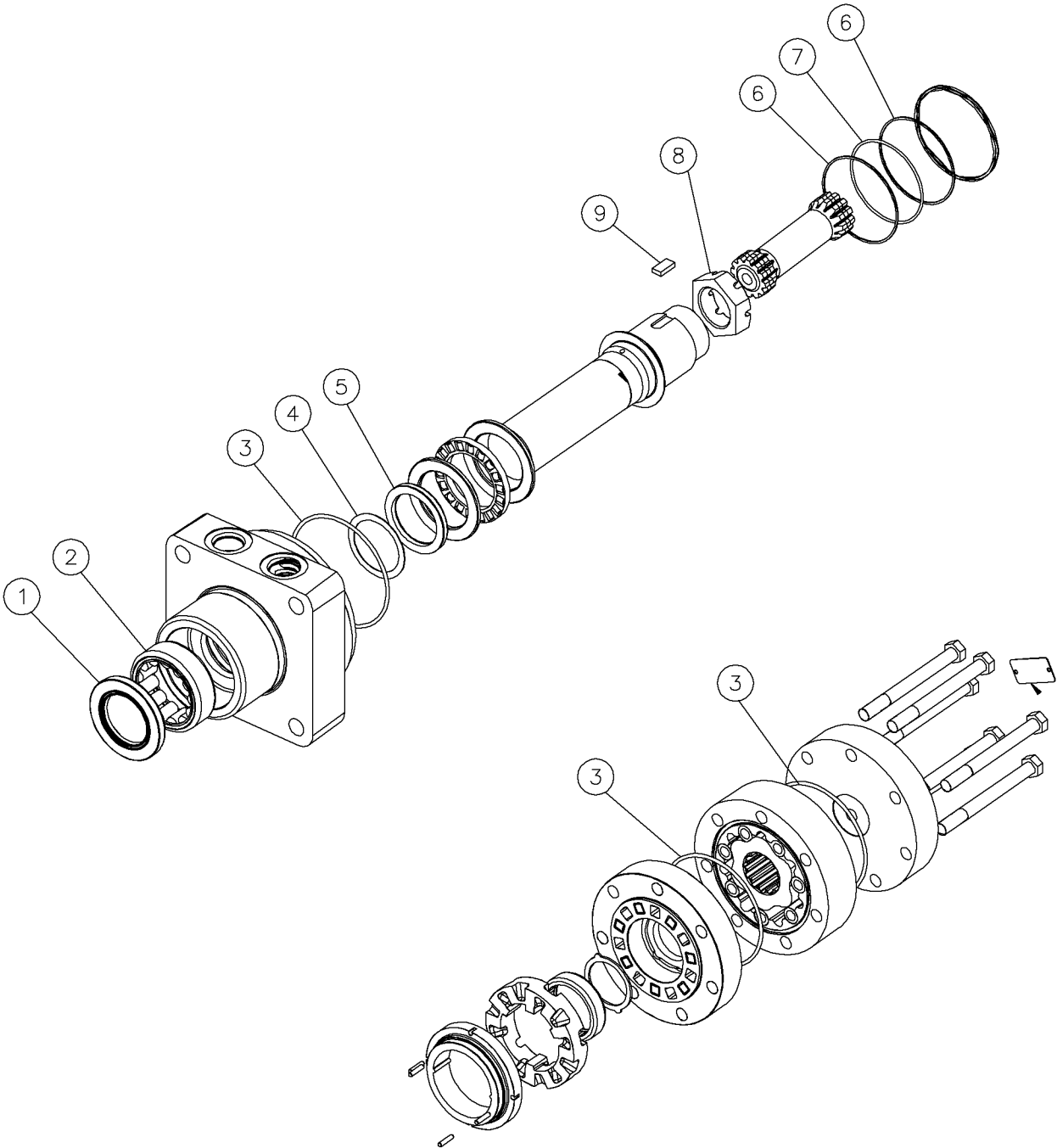
Illustration No. 296306457



Track Drive Hydraulic Motor Fig 3-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296297023	MOTORWHEEL -542 CC STD ROTATION DELTA SERIES- LEFT	1	Breakdown Figure 3-5z01
2		296319065	WELDMENT - DRIVE SPOCKET	2	Breakdown Figure 3-5z02
3		296297024	MOTOR-WHEEL -542 CC REV.ROTATION DELTA SERIES - RT	1	
4		57946001	10MX#6JIC ST ADAPTER	4	
5		510338819	COTTER PIN-5/32" X 2"-YZ	2	
6		296300793	SCREW-HFS-.50-13X2.25-GR8-YZ	8	

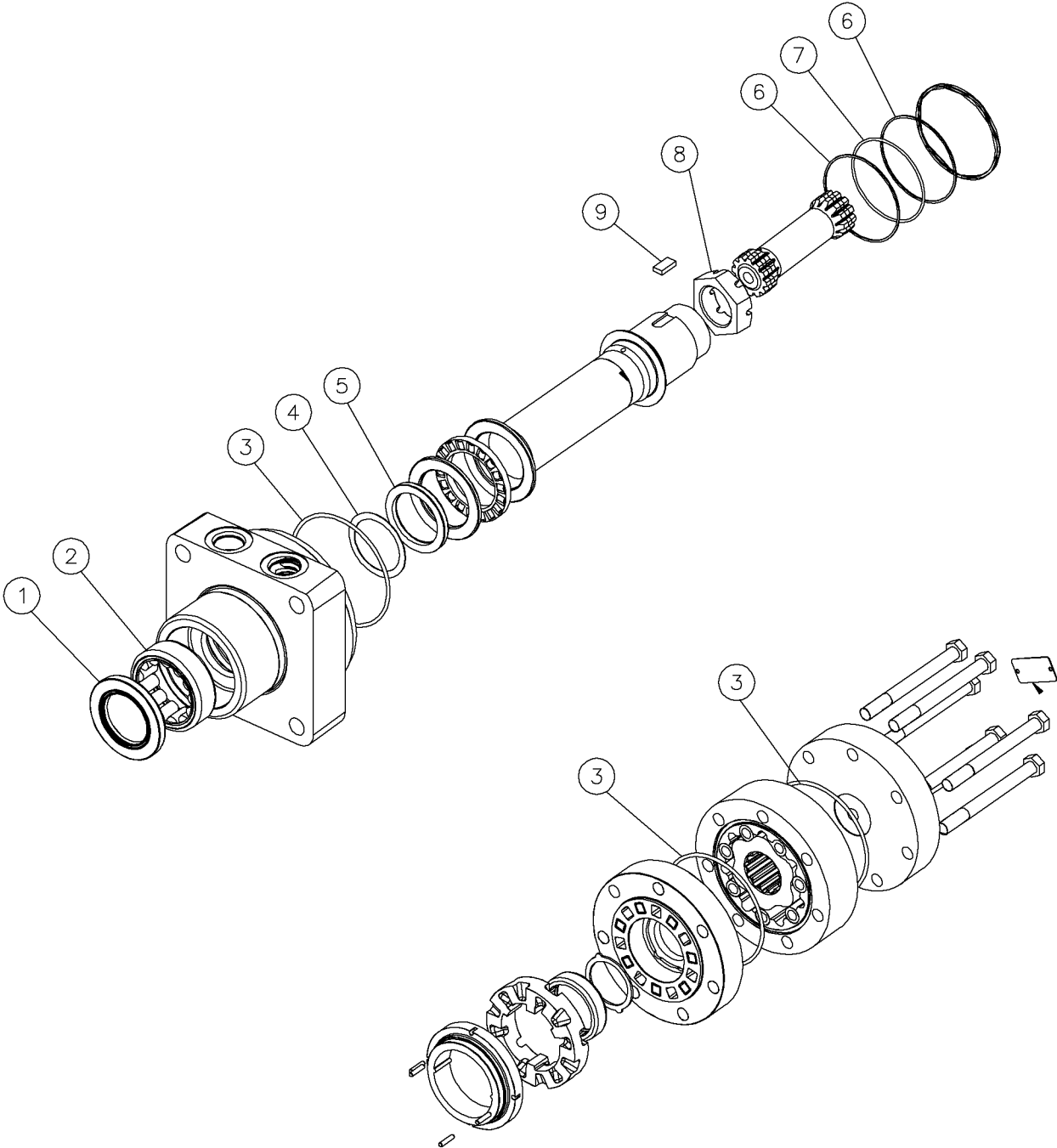
Components-Wheel Motor Fig 3-5z01



Components-Wheel Motor Fig 3-5z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1			GREASE SEAL	1	Not Sold Separately
2			BEARING SHELL	1	Not Sold Separately
3			O-RING	3	Not Sold Separately
4			BACK-UP WASHER	1	Not Sold Separately
5			SHAFT SEAL	1	Not Sold Separately
6			BACK-UP RING	2	Not Sold Separately
7			O-RING	1	Not Sold Separately
8		230588003	NUT-SLOTTED	1	
9		218249003	KEY-SHAFT	1	
		296304017	REPAIR KIT - WHEEL MOTOR	1	Include Items 1 - 7
		296297023	WHEEL MOTOR-542 CC STD ROTATION DELTA SERIES- LEFT		Include All Items In Figure

Components-Wheel Motor Fig 3-5z02

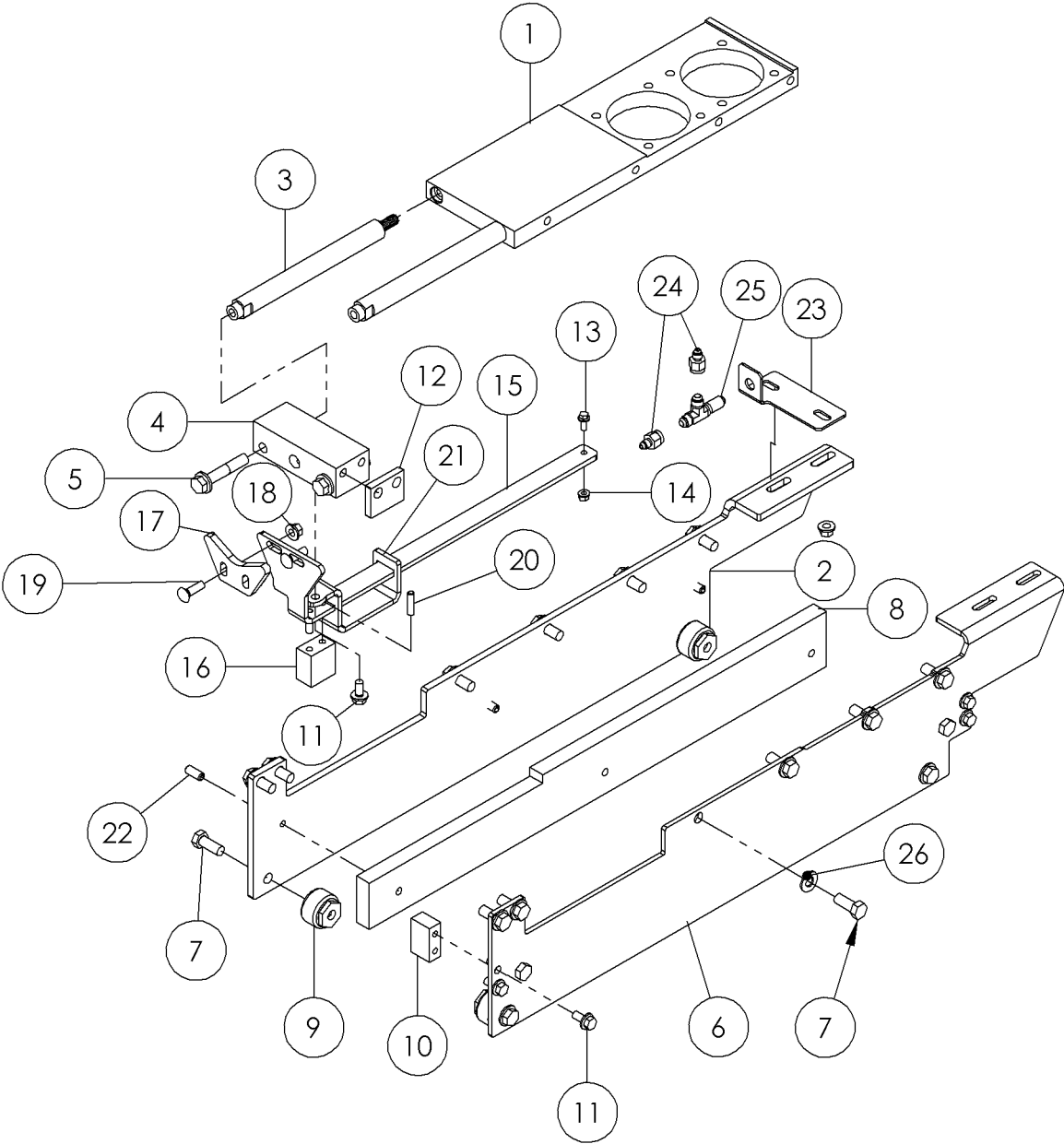


Components-Wheel Motor Fig 3-5z02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1			GREASE SEAL	1	Not Sold Separately
2			BEARING SHELL	1	Not Sold Separately
3			O-RING	3	Not Sold Separately
4			BACK-UP WASHER	1	Not Sold Separately
5			SHAFT SEAL	1	Not Sold Separately
6			BACK-UP RING	2	Not Sold Separately
7			O-RING	1	Not Sold Separately
8		230588003	NUT-SLOTTED	1	
9		218249003	KEY-SHAFT	1	
		296304017	REPAIR KIT - WHEEL MOTOR	1	Include Items 1 - 7
		296297024	WHEEL MOTOR -542 CC REV.ROTATION DELTA SERIES - RT		Include All Items In Figure

Rack Carriage (SN 167-) Fig 3-6r01

Illustration No. 296299226

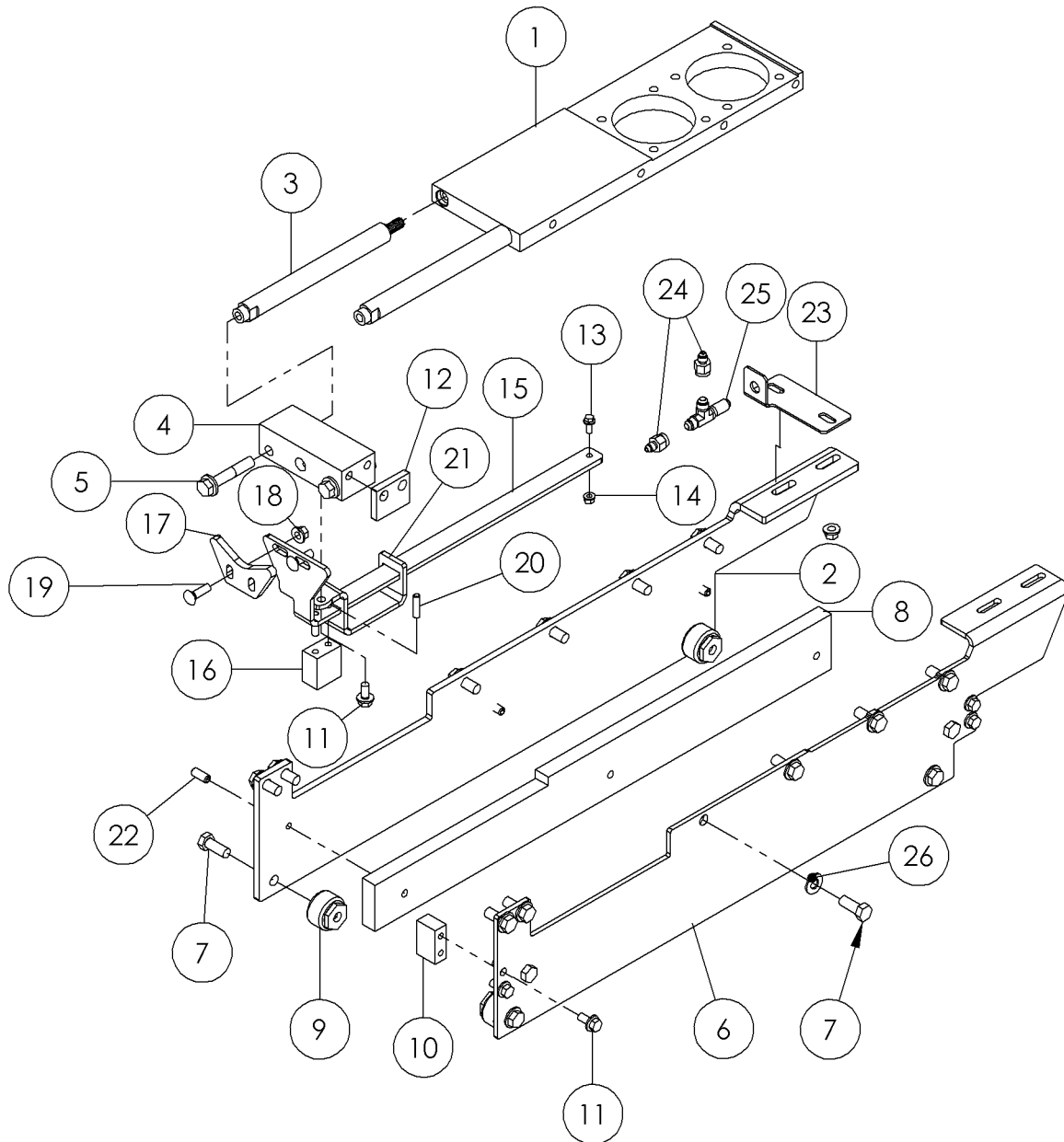


Rack Carriage (SN 167-) Fig 3-6r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296299229	PLATE - MOTOR MOUNT	1	
2		296299228	PLATE - RIGHT CARRIAGE	1	
3		296293862	SLIDE ROD CARRIAGE	2	
4		296308155	SLIDE MOUNT BAR CARRIAGE	1	
5		296300795	SCREW-HFS-.50-13X2.75-GR8-YZ	2	
6		296299227	PLATE - LEFT CARRIAGE	1	
7		235737001	BOLT-1/2-13X1 1/4 GR8 ZYC	18	
8		296299230	SLIDER-CARRIAGE GEAR	1	
9		296291810	ROLLER - 1.75 CAM THD	6	
10		296308040	SCRAPER - GEARBOX BEARING	2	
11		296300771	SCREW-HFS-..38-16X.75GR8-YZ	6	
12		296308115	SPACER	1	
13		296300752	SCREW-HFS-.25-20X.625-GR8-YZ	1	
14		296300848	NUT-HEXFLGTL-.25-20-G-YZ	1	
15		296308108	PLATE - CRADLE SLIDE	1	
16		296281086	PLASTIC - SUPPORT CRADLE SLIDE	1	
17		296281087	PLATE - ROD CRADLE	1	
18		296300850	NUT-HEXFLGTL-.38-16-G-YZ	4	
19		510308112	BOLT-CARG-.38-16X1.25-GR5-YZ	2	
20		1788025	PIN - EXPANSION 5/16 X 1 1/4	2	
21		296308192	*PLATE - MOUNT CRADLE SLIDE	1	(s/n)
22		629847001	PIN-SPRING 3/8 X 1.0-HD-PLN-COIL	3	
23		296308200	MOUNT - BULKHEAD	1	
24		59928001	6F JICX4M JIC ST REDUCER	2	
25		503342001	FITTING-BHRTEE-6MJ-6MJBH-6MJ	1	
26		485025	WASHER-1/2 FLAT-HARDENED-YZ	18	

Rack Carriage (SN 101-166) Fig 3-6

Illustration No. 296299226

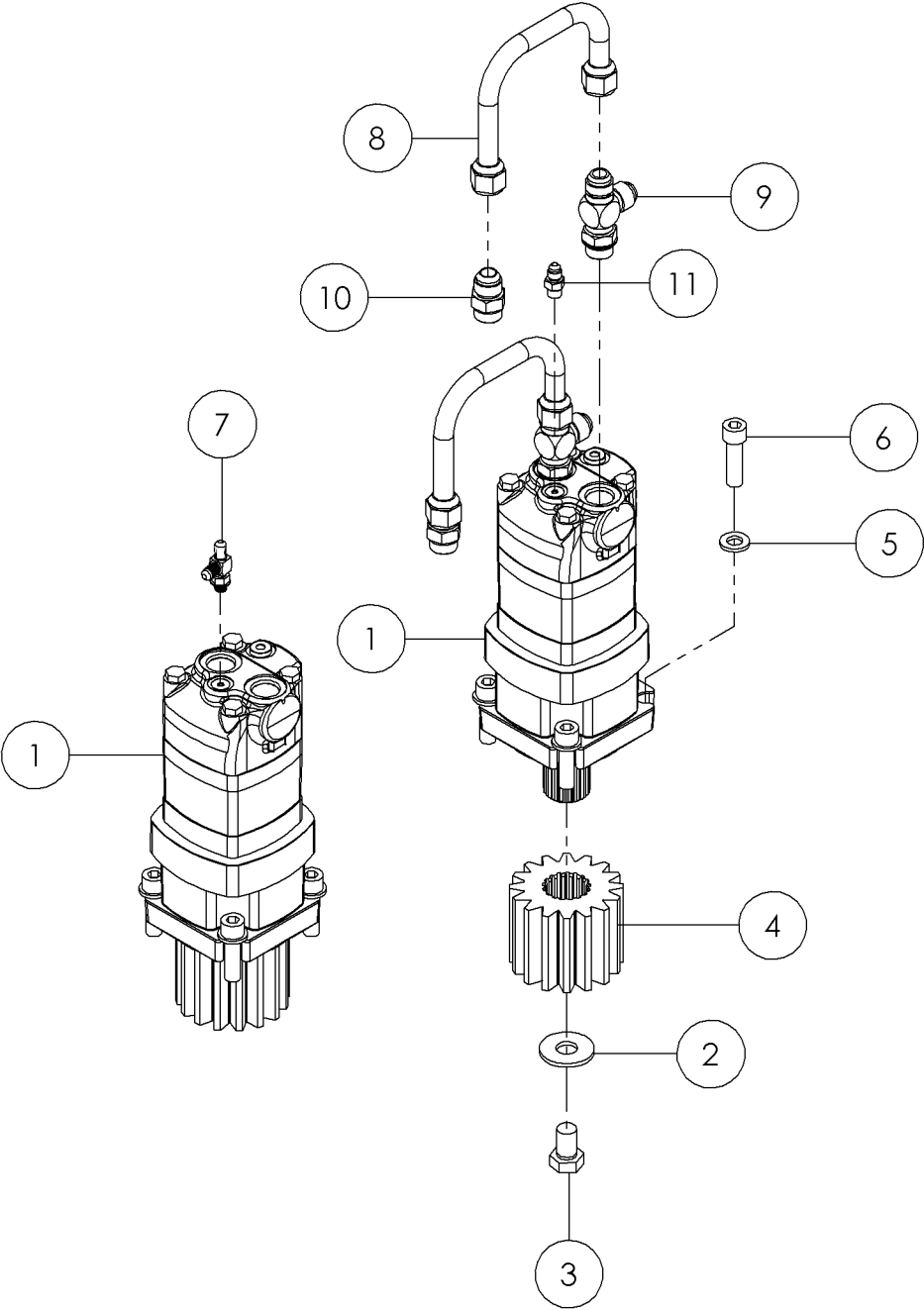


Rack Carriage (SN 101-166) Fig 3-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296299229	PLATE - MOTOR MOUNT	1	
2		296299228	PLATE - RIGHT CARRIAGE	1	
3		296293862	SLIDE ROD CARRIAGE	2	
4		296308155	SLIDE MOUNT BAR CARRIAGE	1	
5		296300795	SCREW-HFS-.50-13X2.75-GR8-YZ	2	
6		296299227	PLATE - LEFT CARRIAGE	1	
7		235737001	*BOLT-1/2-13X1 1/4 GR8 ZYC	18	
8		296299230	SLIDER-CARRIAGE GEAR	1	
9		296291810	ROLLER - 1.75 CAM THD	6	
10		296308040	SCRAPER - GEARBOX BEARING	2	
11		296300771	SCREW-HFS-..38-16X.75GR8-YZ	6	
12		296308115	SPACER	1	
13		296300752	SCREW-HFS-.25-20X.625-GR8-YZ	1	
14		296300848	NUT-HEXFLGTL-.25-20-G-YZ	1	
15		296308108	PLATE - CRADLE SLIDE	1	
16		296281086	PLASTIC - SUPPORT CRADLE SLIDE	1	
17		296281087	PLATE - ROD CRADLE	1	
18		296300850	NUT-HEXFLGTL-.38-16-G-YZ	4	
19		510308112	*BOLT-CARG-.38-16X1.25-GR5-YZ	2	
20		1788025	PIN - EXPANSION 5/16 X 1 1/4	2	
21		296308192	PLATE - MOUNT CRADLE SLIDE	1	
22		629847001	PIN-SPRING 3/8 X 1.0-HD-PLN-COIL	3	
23		296308200	MOUNT - BULKHEAD	1	
24		59928001	6F JICX4M JIC ST REDUCER	2	
25		503342001	FITTING-BHRTEE-6MJ-6MJBH-6MJ	1	
26		485025	*WASHER-1/2 FLAT-HARDENED-YZ	18	

Thrust/Pullback Hydraulic Motor (SN 134-) Fig 3-7r01

Illustration No. 296299218

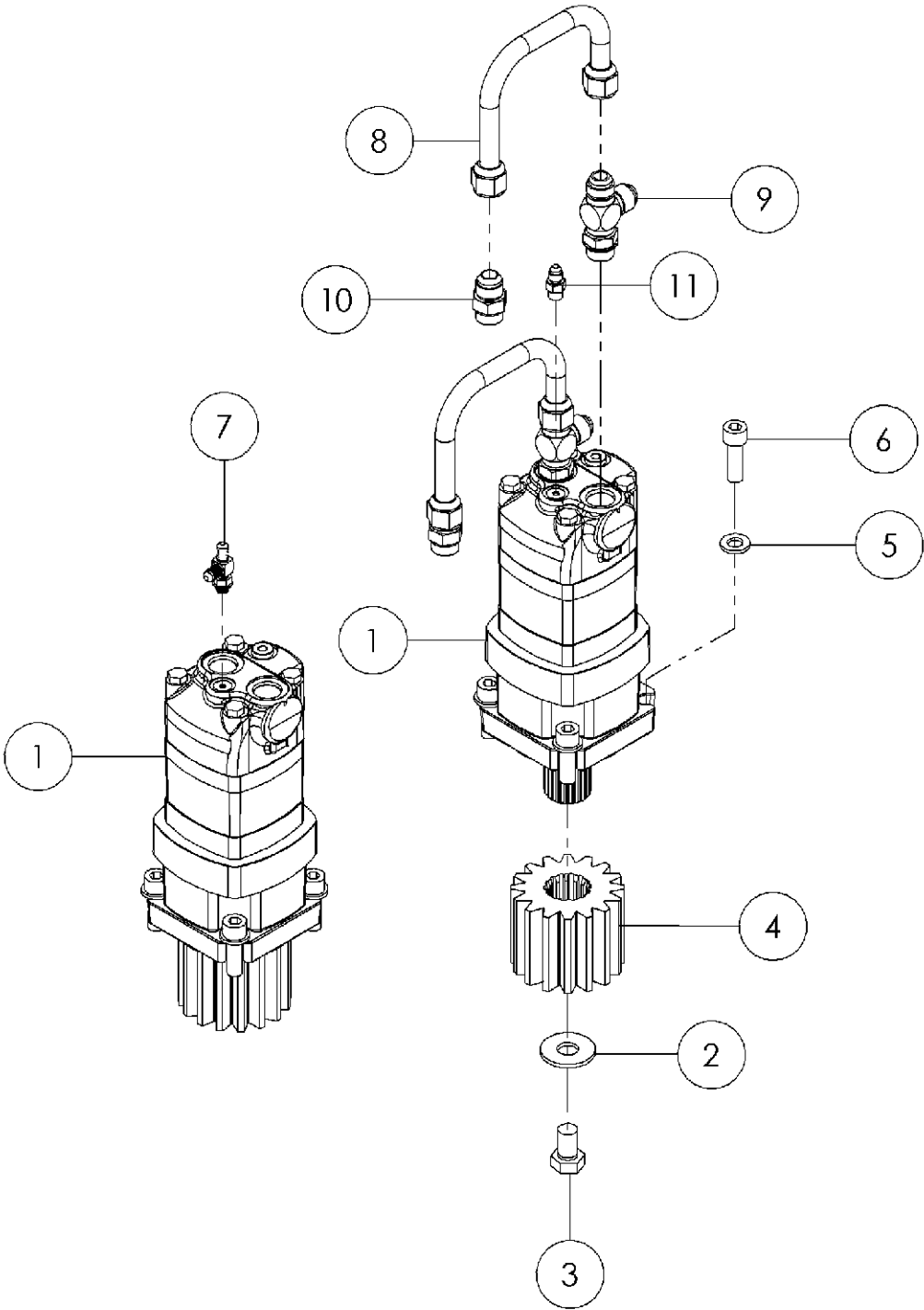


Thrust/Pullback Hydraulic Motor (SN 134-) Fig 3-7r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296276509	MOTOR-HYDRAULIC , 19.8 CU	2	Breakdown Fig. 3-7z01
2		485015	WASHER-5/8 FLAT	2	
3		296257353	SCREW - HCS-.63-18X1-GR8-YZ	2	
4		282876001	GEAR - 16 T 5DP PINION	2	
5		508486012	WASHER-FLAT, HARDENED,M12, YZ, DIN6916	8	
6		243907001	*SCREW-1/2 - 13X1 3/4 SHC ZP	8	
7		81342001	FITTING-RTEE-4MJ-4MORBA-4MJ	1	
8		296299219	TUBE - .63 X .083W X 9.98	2	
9		100873001	FITTING-10MX10MJIC RUN TEE	2	
10		53827001	FITT.-#10M O-RING-#10M JIC ST.	2	
11		60908001	FITTING-4MX4M JIC STR ADAPTER	1	

Thrust/Pullback Hydraulic Motor (SN 101-133) Fig 3-7

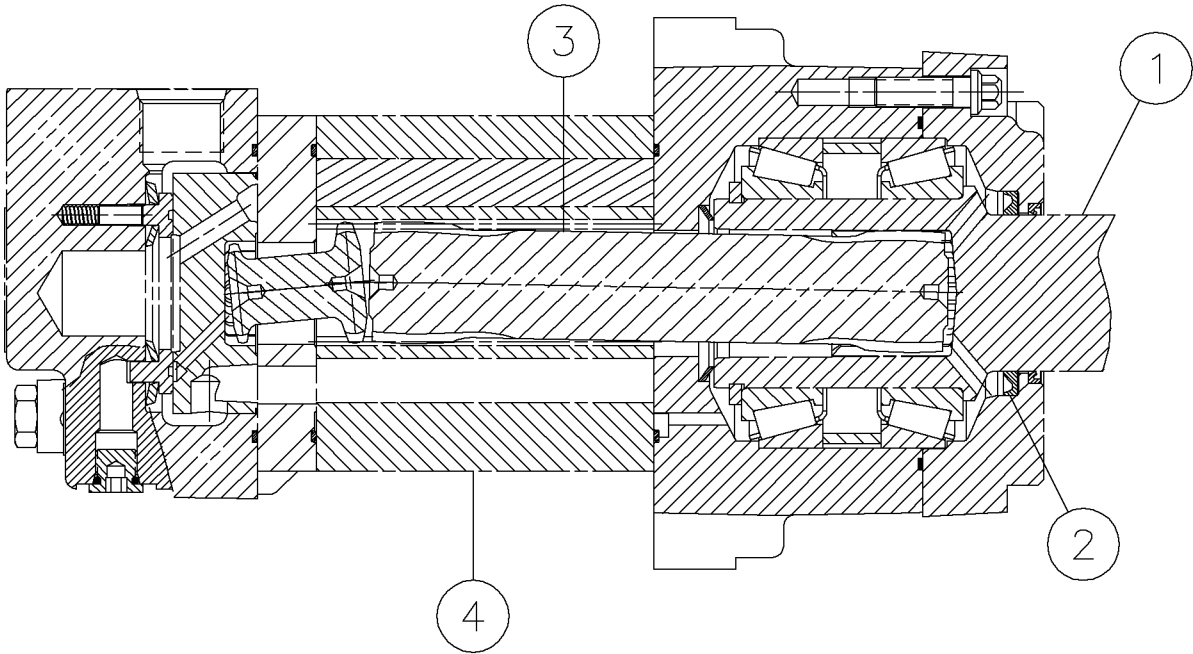
Illustration No. 296299218



Thrust/Pullback Hydraulic Motor (SN 101-133) Fig 3-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296276509	MOTOR-HYDRAULIC , 19.8 CU	2	Breakdown Figure 3-7z01
2		485015	WASHER-5/8 FLAT	2	
3		296257353	SCREW - HCS-.63-18X1-GR8-YZ	2	
4		282876001	GEAR - 16 T 5DP PINION	2	
5		508486012	WASHER-FLAT, HARDENED,M12, YZ, DIN6916	8	
6		276402001	SCREW-1/2-13X1 1/2 SHC Y ZINC	8	
7		81342001	FITTING-RTEE-4MJ-4MORBA-4MJ	1	
8		296299219	TUBE - .63 X .083W X 9.98	2	
9		100873001	FITTING-10MX10MJIC RUN TEE	2	
10		53827001	FITT.-#10M O-RING-#10M JIC ST.	2	
11		60908001	FITTING-4MX4M JIC STR ADAPTER	1	

Components-Thrust/Pullback Motor Fig 3-7z01

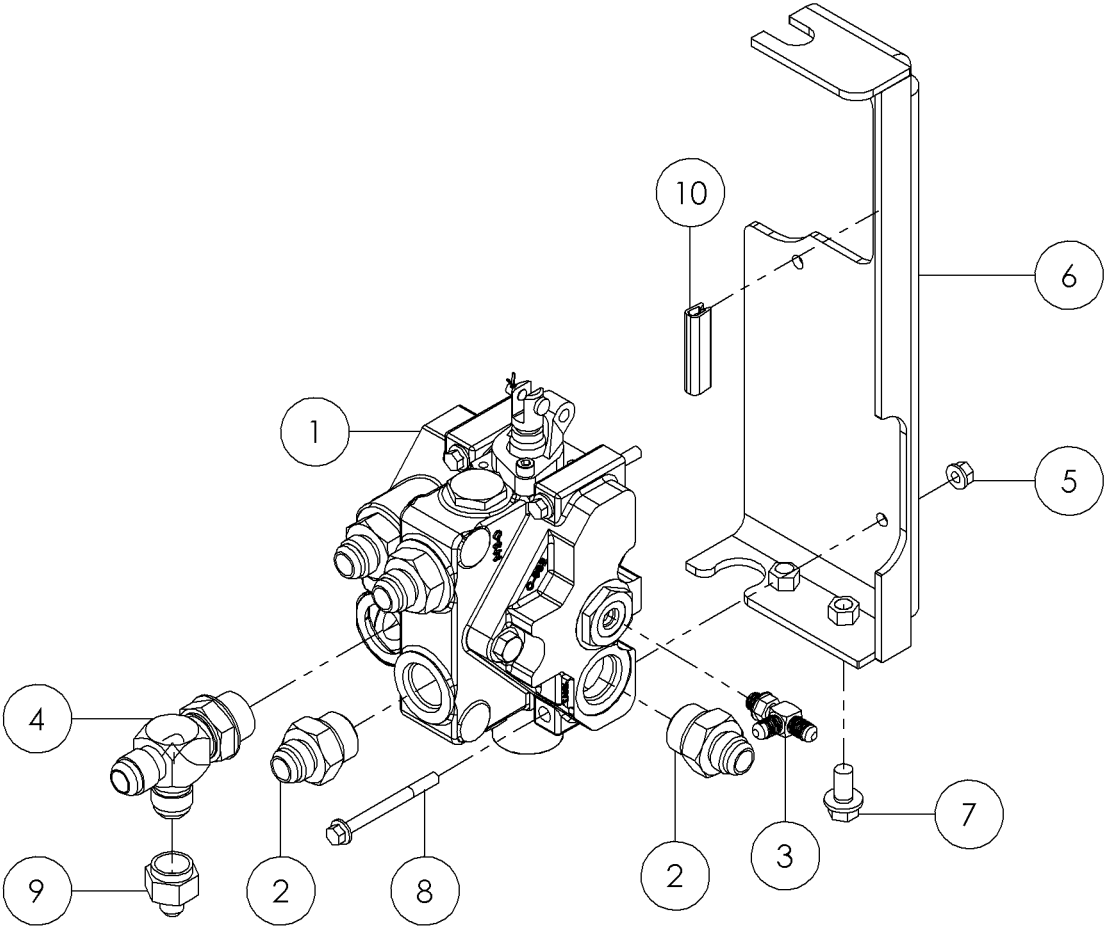


Components-Thrust/Pullback Motor Fig 3-7z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296271078	SHAFT SUB ASSEMBLY	1	
2		296272895	SEAL-SHAFT	1	
3		296272893	DRIVE	1	
4		296272894	GEROLER-SUB-ASSEMBLY	1	
		296276509	HYDRAULIC MOTOR, 19.8 CU		
		180005762	SEAL KIT		

Thrust/Pullback Control Valve Fig 3-8r01

Illustration No. 296308132

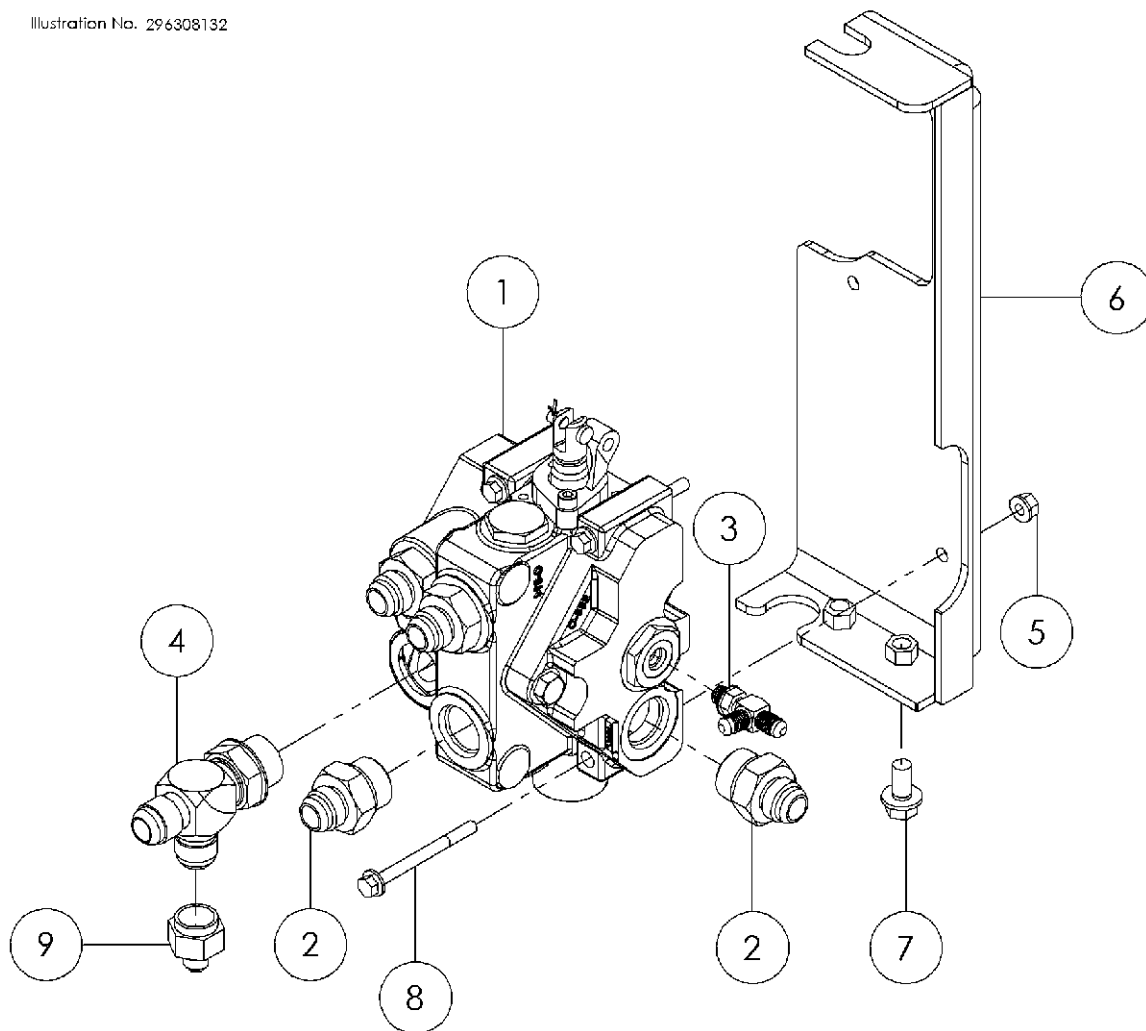


Thrust/Pullback Control Valve Fig 3-8r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296319008	VALVE - HYD 1 SECTION LS	1	
2		53854001	12M O-RING-10M JIC ST.	4	
3		81342001	FITTING-RTEE-4MJ-4MORBA-4MJ	1	
4		114403001	TEE-10M JICX12M ORINGX10M JIC	1	
5		296300848	NUT-HEXFLGTL-.25-20-G-YZ	3	
6		296320905	WELDMENT - THRUST MOUNT	1	
7		296300771	SCREW-HFS-..38-16X.75GR8-YZ	2	
8		296300925	SCREW-HFS-.25-20X2.75-GR8-YZ	3	
9		71253001	FITTING-6M JICX10F JIC REDUCER	1	
10		212522001	*TRIM-1/4 EDGE	1	

Thrust/Pullback Control Valve Fig 3-8

Illustration No. 296308132

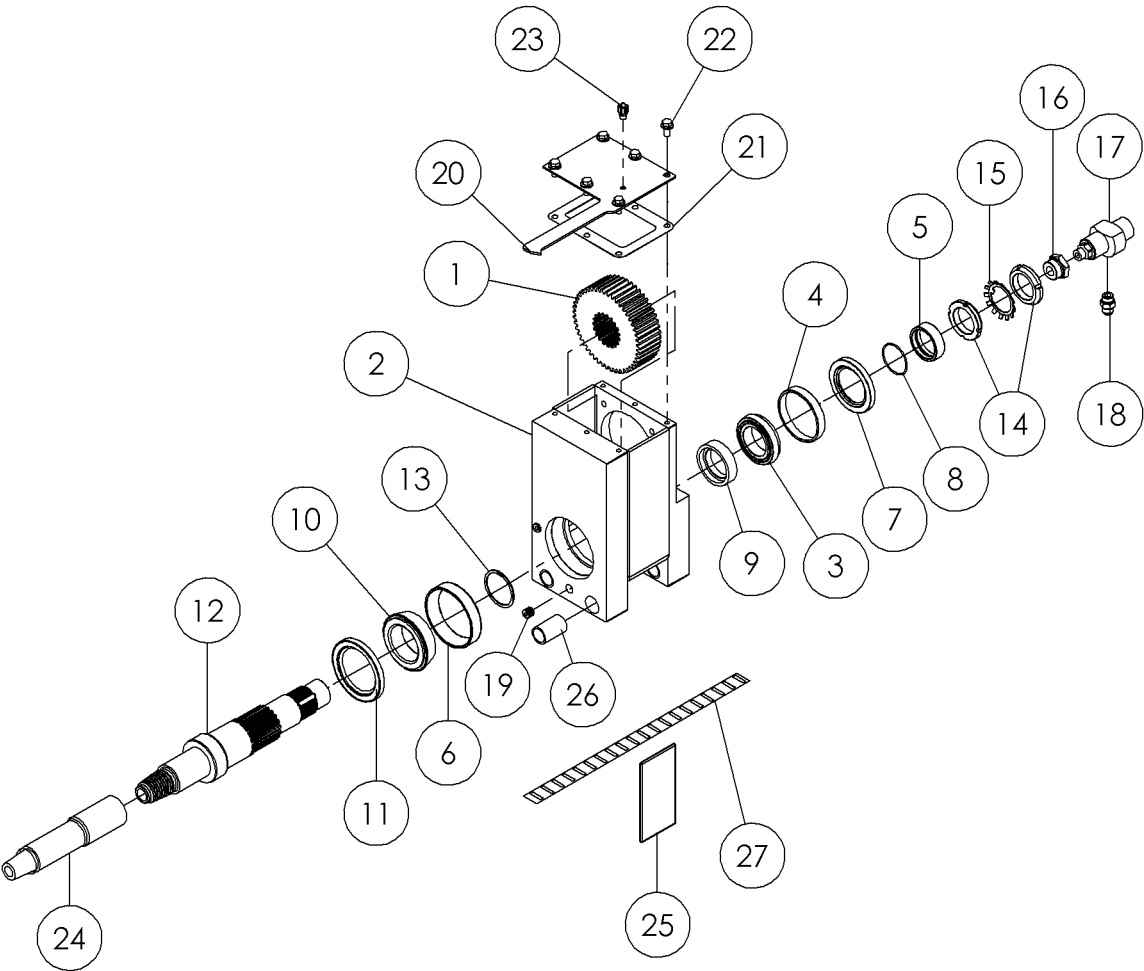


Thrust/Pullback Control Valve Fig 3-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296319008	VALVE - HYD 1 SECTION LS	1	
2		53854001	12M O-RING-10M JIC ST.	4	
3		81342001	FITTING-RTEE-4MJ-4MORBA-4MJ	1	
4		114403001	TEE-10M JICX12M ORINGX10M JIC	1	
5		296300848	NUT-HEXFLGTL-.25-20-G-YZ	3	
6		296320905	WELDMENT - THRUST MOUNT	1	
7		296300771	SCREW-HFS-..38-16X.75GR8-YZ	2	
8		296300925	SCREW-HFS-.25-20X2.75-GR8-YZ	3	
9		71253001	FITTING-6M JICX10F JIC REDUCER	1	

Rotation Gearbox Fig 3-9

Illustration No. 296308089

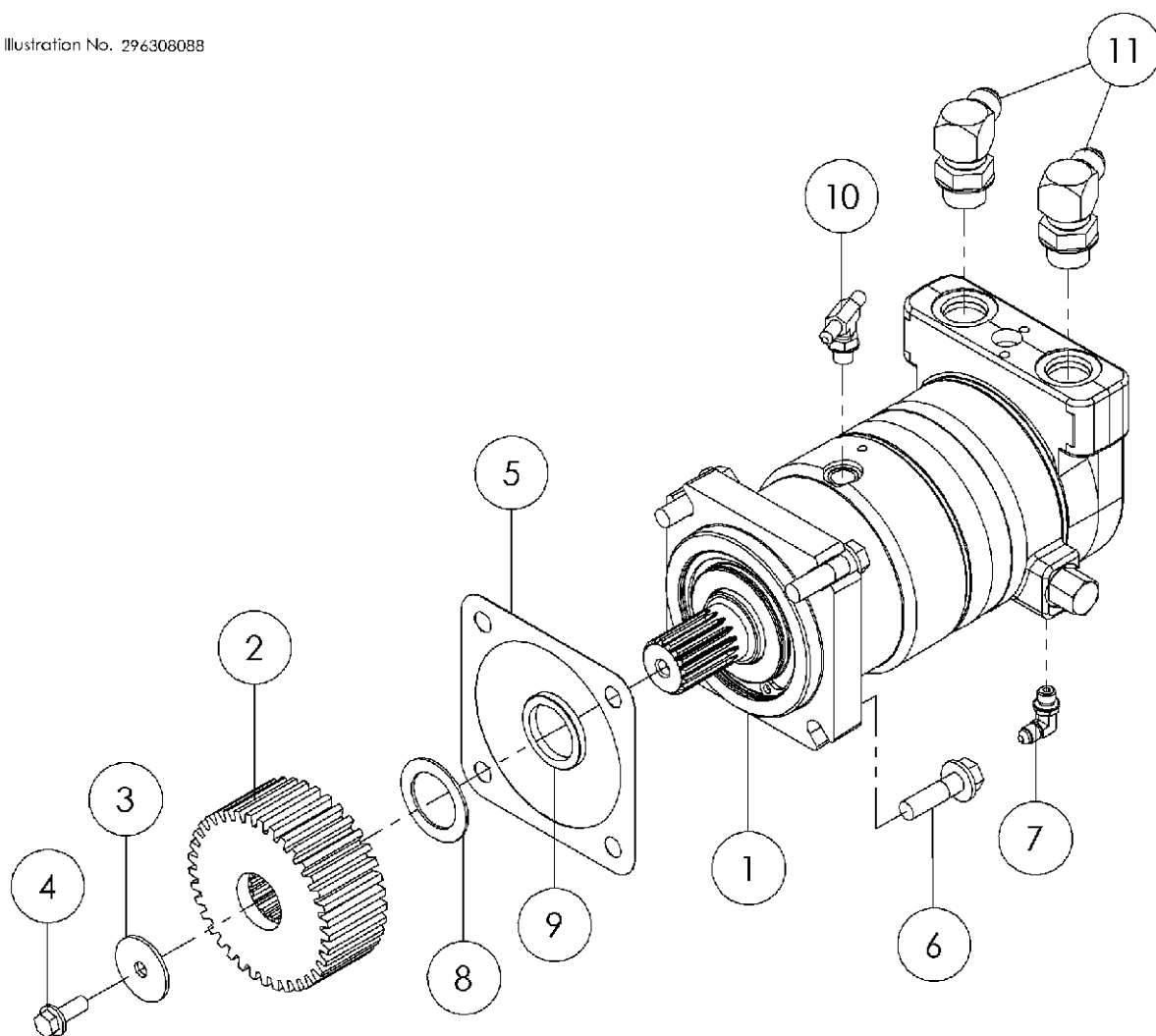


Rotation Gearbox Fig 3-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296299194	GEAR - 48T	1	
2		296308095	WELDMNT- ROTATIONAL GEARBOX MACHINED AFTER WELD	1	
3		1716097	CONE-2 1/8" BRG.	1	
4		1715001	TIMKEN CUP-2 1/4" #382A	1	
5		229433001	SLEEVE-SEAL	1	
6		1715013	TIMKEN CUP-2 1/2" #3920	1	
7		214201001	SEAL-#25100	1	
8		214202001	O-RING #138	1	
9		235627001	TUBE-GEAR SPACER	1	
10		4771061	BRG. CONE 3994	1	
11		240266001	SEAL-4.501ODX3.125IDX.438 WIDE	1	
12		296271392	SHAFT ROTATION GEARBOX	1	
13		224896250	SNAP RING-2 1/2" EXTERNAL	1	
14		214200001	LOCKNUT-SLOTTED 2"-18 NF	2	
15		94594007	LOCKWASHER-2.844DIA.OVER TANGS	1	
16		121438001	FITTING-16X8 ORINGPORT REDUCER	1	
17		234744001	FITTING-8M X 8F 90 DEG SWIVEL - NICKEL PLATED	1	
18		53824001	FITTING-#8M O-RING-#8M JIC ST.	1	
19		79497001	PLUG-3/8 SOCKET PIPE	2	
20		296308094	PLATE - GEARBOX TOP	1	
21		296308097	GASKET-GEARBOX TOP	1	
22		296300771	SCREW-HFS-..38-16X.75GR8-YZ	6	
23		599001	BREATHER VENT-1/8 NPT 131000	1	
24		296276507	SUB SAVER 1.90 TO 1.66 OD	1	
25		247261985	TORQ-LOK	1	
26		296308203	BUSHING - 1.0" ID X 1.25" OD X 2.0	4	
27		2326142	*DECAL-INDICATOR	1	

Rotation Hydraulic Motor Fig 3-10r01

Illustration No. 29&308088

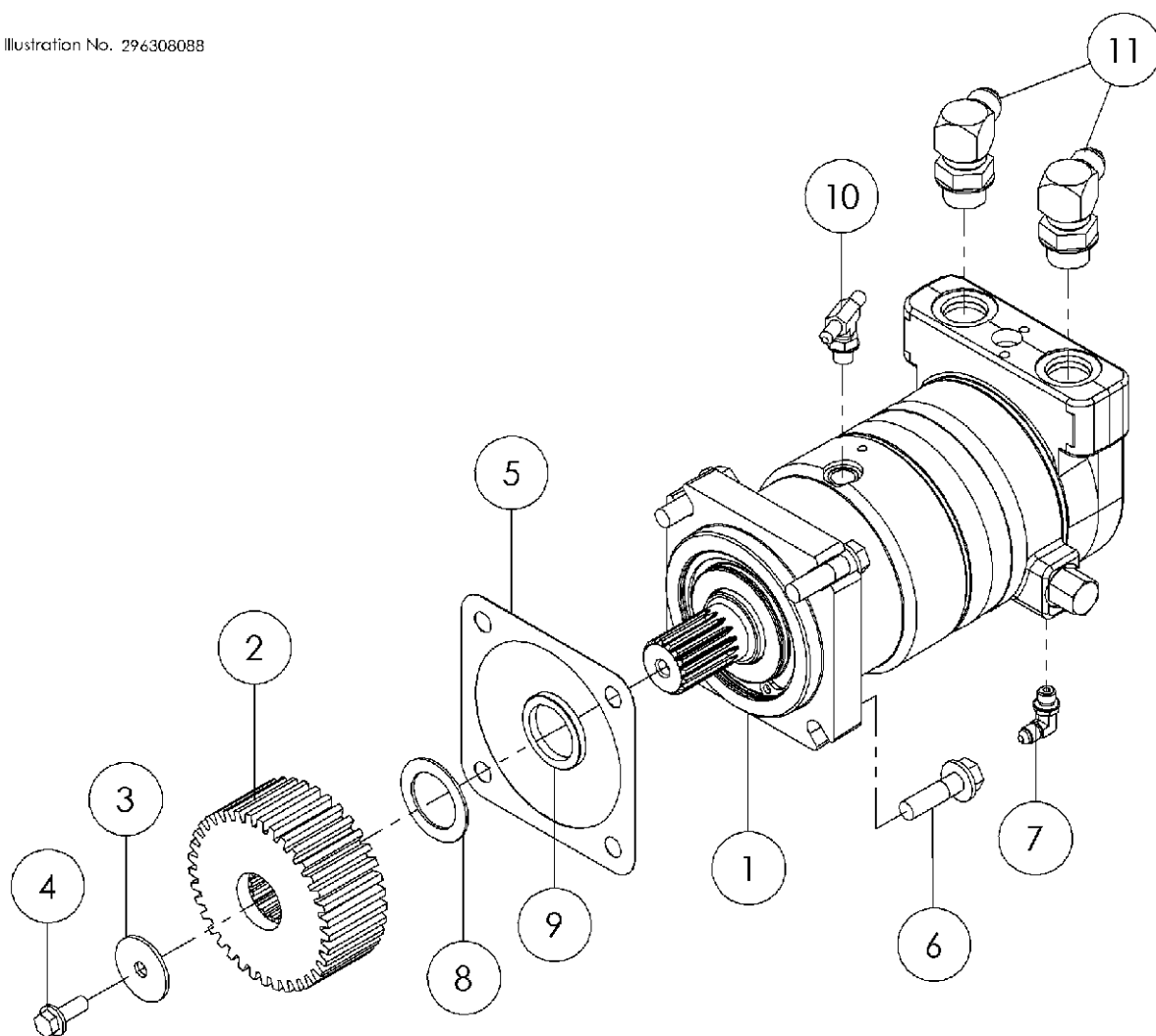


Rotation Hydraulic Motor Fig 3-10r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296308147	MOTOR - HYDRAULIC VIS 30 24 C.I.D.	1	Breakdown Fig 3-10z01
2		296319021	GEAR - 32T	1	
3		508899001	WASHER - 1.75 OD X 13/32 ID - .100	1	
4		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	1	
5		217035001	GASKET-.020 4 BOLT	1	
6		296300791	SCREW-HFS-.50-13X1.75-GR8-YZ	4	
7		59423001	90-4MORBA-4MJ	2	
8		483009	WASHER-2 1/4X1 1/2X14 GA M.B.	1	
9		235663001	TUBE-GEAR SPACER	1	
10		163644603	FITTING-BTEE-4MJ-4MJ-6MORBA	1	
11		59409001	10M JICX12M ADJ. 90 DEG.ELBOW	2	

Rotation Hydraulic Motor Fig 3-10

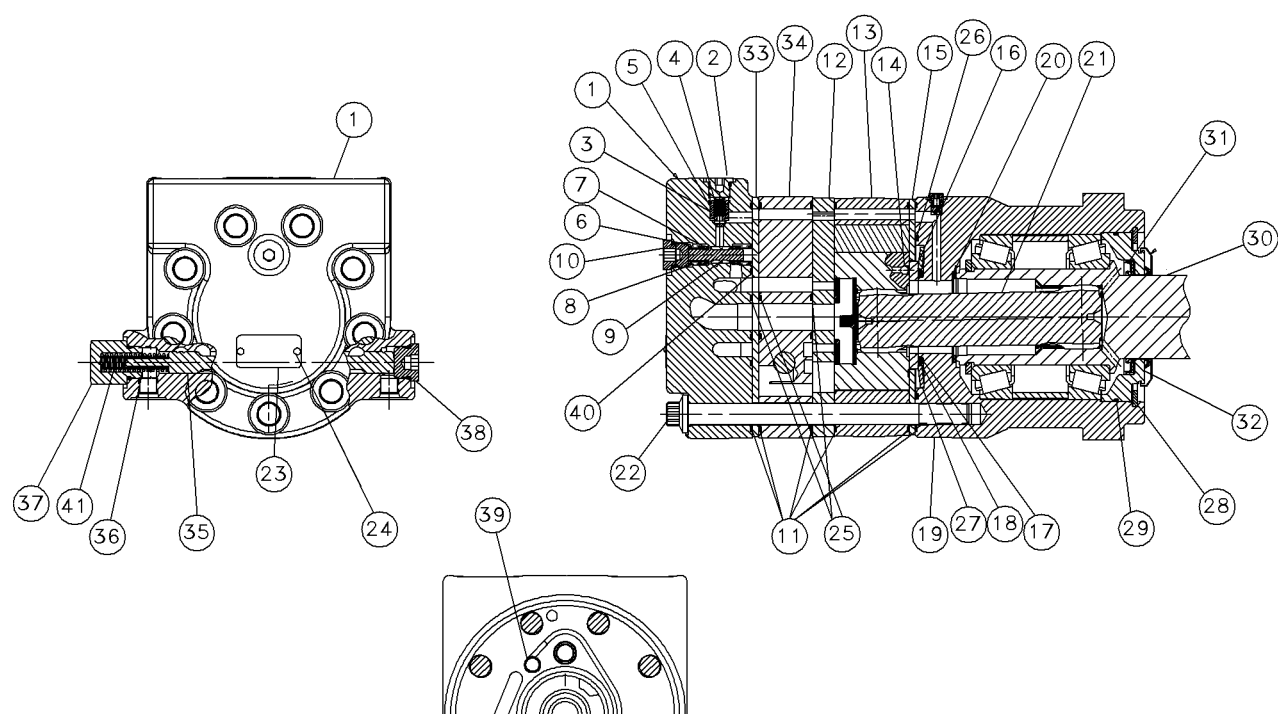
Illustration No. 296308088



Rotation Hydraulic Motor Fig 3-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296308147	MOTOR - HYDRAULIC VIS 30 24 C.I.D.	1	
2		296319021	GEAR - 32T	1	
3		508899001	WASHER - 1.75 OD X 13/32 ID - .100	1	
4		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	1	
5		217035001	GASKET-.020 4 BOLT	1	
6		296300791	SCREW-HFS-.50-13X1.75-GR8-YZ	4	
7		59423001	90-4MORBA-4MJ	2	
8		483009	WASHER-2 1/4X1 1/2X14 GA M.B.	1	
9		235663001	TUBE-GEAR SPACER	1	
10		163644603	FITTING-BTEE-4MJ-4MJ-6MORBA	1	
11		59409001	10M JICX12M ADJ. 90 DEG.ELBOW	2	

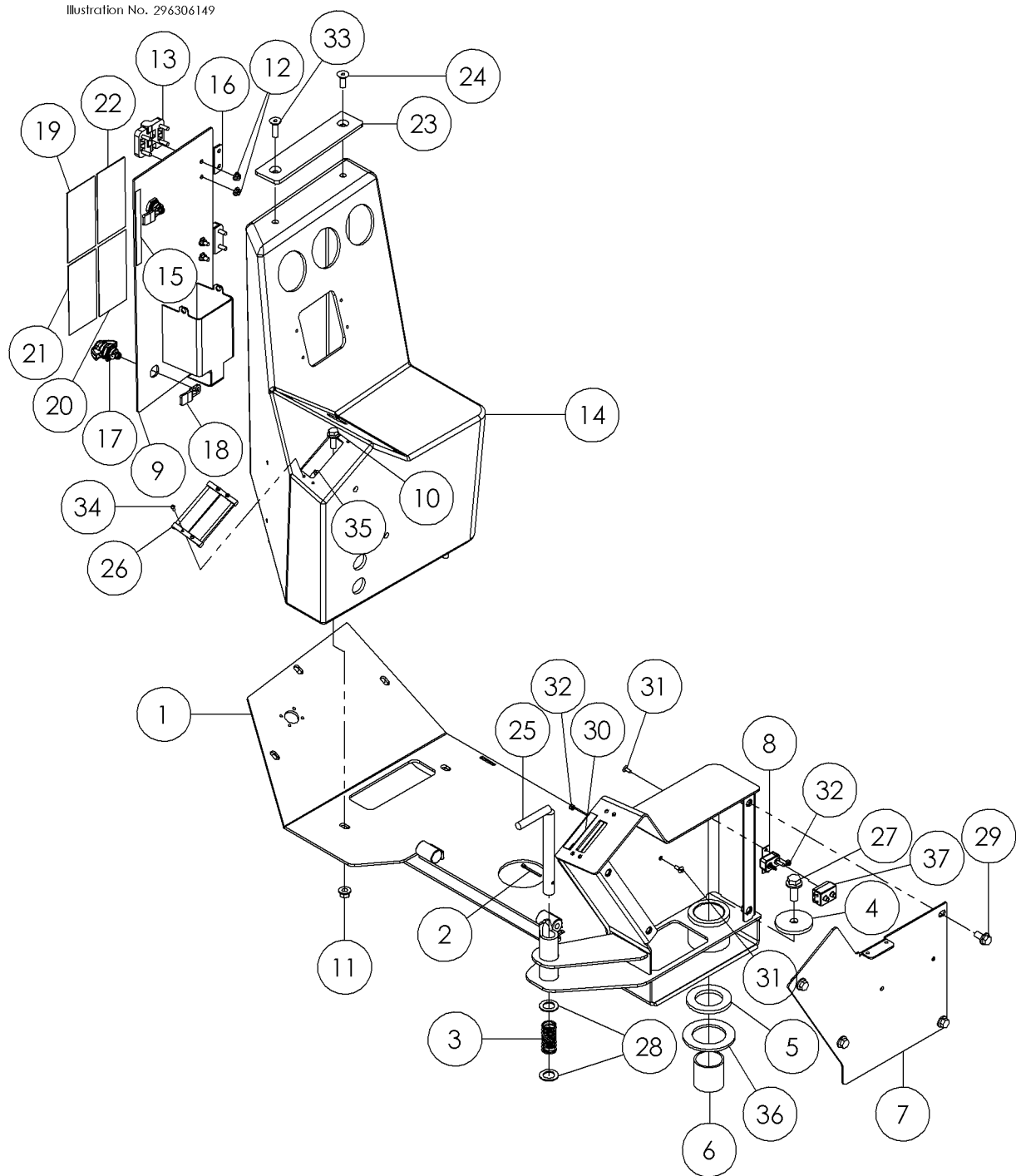
Components-Hydraulic Motor Fig 3-10z01



Components-Hydraulic Motor Fig 3-10z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296345507	END CAP	1	
2		260876005	PLUG - O-RING	1	
3		257547015	POPPET	1	
4		267563001	SPRING	1	
5		257547013	SHIM	A/R	
6		257547003	SLEEVE,DASH POT	2	
7		209137023	POPPET	2	
8		209137021	SPRING	2	
9		257547009	PISTON,SHUTTLE	1	
10		235642017	PLUG ASSEMBLY	1	
11		296265608	SEAL	6	
12		296345508	PLATE-VALVE	1	
13		296345509	GEROLER SUB-ASSY	1	
14		296265610	BALL	2	
15		296345510	PLATE-BALANCE (OUTER)	1	
16		296265612	PLATE - INNER BALANCING	1	
17		296265613	O-RING	1	
18		296265614	RING - BACK - UP	1	
19		296345511	BEARING HOUSING	1	
20		4295021	SEAL-SHAFT FACE 9080-1	1	
21		296345512	DRIVE	1	
22		296345513	SCREW	9	
23			NAME PLATE	1	Not Available
24			RIVET	2	Not Available
25		296265620	O - RING	3	
26		296265621	O - RING	1	
27		296345514	SPRING-BELLEVILLE DISC	1	
28		257547027	RING,RETAINER	1	
29		209137007	SEAL-3 3/4"ID - (O-RING)	1	
30		296345515	SHAFT SUB-ASSY	1	
31		257547021	SEAL,SHAFT	1	
32		257547025	FRONT RETAINER	1	
33		296345517	PLATE-SPACER	1	
34		296345516	PLATE-SELECTOR	1	
35		296265619	SPOOL - CONTROL	1	
36		296265624	SPRING	1	
37		296265625	PLUG	1	
38		296265626	PLUG	1	
39		296265630	DISC	1	
40		296265627	O - RING	1	
41		296265622	SPRING - COMPRESSION		
		296265628	SEAL KIT		
		296308147	MOTOR - HYDRAULIC VIS 30 24 C.I.D.		Inc. All Items Figure.

Console Fig 3-11

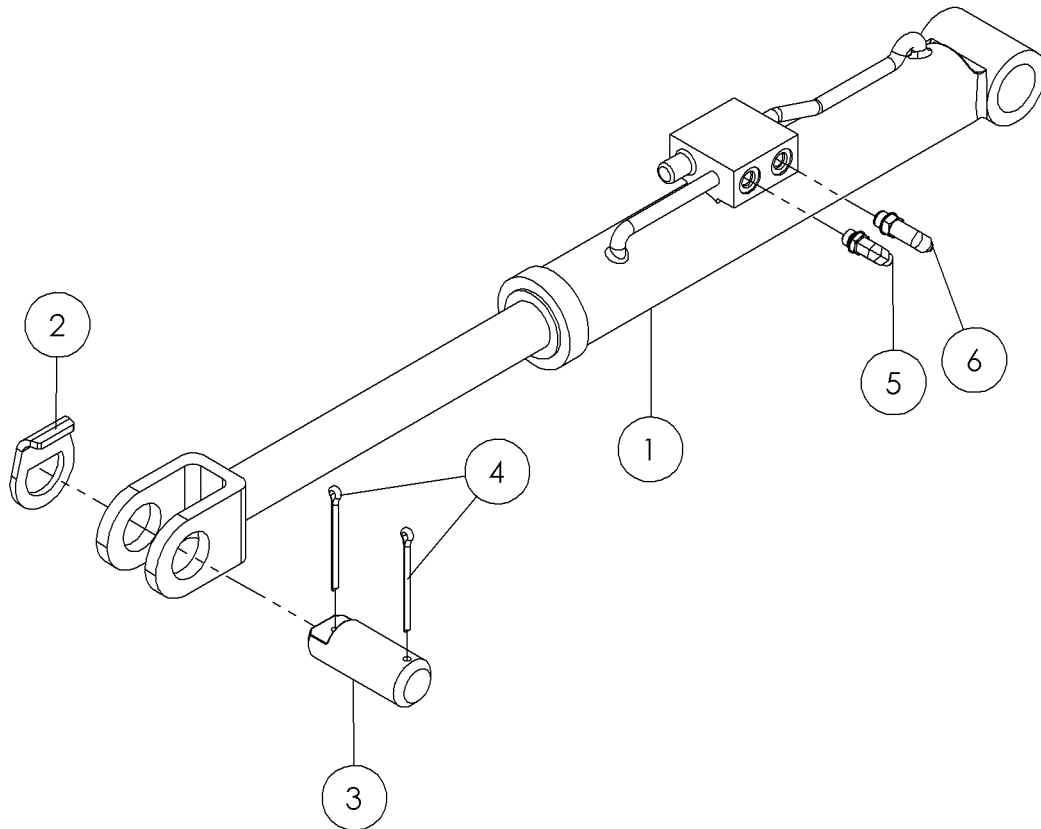


Console Fig 3-11

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306242	WELDMENT - OPERATOR STATION	1	
2		510011	COTTER PIN - 1/8" x 1.5"	1	
3		1803023	SPRING - COMP. #67 2" OA	1	
4		3808001	CAP - SHAFT	1	
5		296260403	SPACER - SEAT SWIVEL	1	
6		70070005	BEARING - COMPOSITE 2" LONG	1	
7		296306190	PLATE- LH CONSOLE BACK	1	
8		86582001	BREAKER-40A TYPE 1 W/METAL CASE	1	
9		296320518	DOOR - RH PANEL ACCESS	1	
10		296300772	SCREW-HFS-.38-16x1.00-GR8-YZ	5	
11		296300850	NUT-HEXFLGTL-.38-16-G-YZ	7	
12		507085006	NUT-HEXFLGL-M6-1.00-10.9-YZ-D6927	12	
13		296294227	HINGE - TAMPER PROOF BUTT	3	
14		296320516	CONSOLE - RH PLASTIC	1	
15		282764001	WEATHER STRIP	1	
16		296306042	PLATE- RH DOOR SPACER	3	
17		163642892	CAM-LATCH LOCKABLE WING KNOB	2	
18		296306078	CAM - LOCK 14MM	2	
19		7000C610	DECAL - DANGER	1	Domestic
19		700IC610	DECAL - WARNING	1	International
20		7000C611	DECAL - DANGER	1	Domestic
20		700IC611	DECAL - WARNING	1	International
21		7000C656	DECAL - DANGER	1	Domestic
21		700IC656	DECAL - WARNING	1	International
22		7000C657	DECAL - DANGER	1	Domestic
22		700IC657	DECAL - WARNING	1	International
23		296320607	PLATE - LOCATOR	1	
24		95988010	SCREW-SFHCS-.38-16X1.00-GR8-PLN	1	
25		296320527	PIN - SEAT PIVOT	1	
26		296320612	SEAL - JOYSTICK SHAFT	2	
27		296300789	SCREW-HFS-.50-13x1.25-GR8-YZ	1	
28		510336691	WASHER-MCHBSHG-.75-.78X1.25-14G-YZ-NRIM	2	
29		296300771	SCREW-HFS-.38-16x.75-GR8-YZ	4	
30		700ib968	DECAL-LEFT JOYSTICK ROTATION	1	Domestic/International
31		79525001	SCREW - #10-24 X 1/2	3	
32		99042001	NUT-NYLOCK-#10-24-GR2-CZ	3	
33		95988012	SCREW-SFHCS-.38-16X1.25-GR8-PLN	1	
34		63737001	SCREW-6-32X1/2 MACHINE	8	
35		69757001	LOCKNUT-#6-32 NYLON INSERT PLT	8	
36		296320645	SPACER - OPERATOR PLATFORM	1	
37		296269640	*BOOT - RED COVER	1	

Outrigger Cylinder Fig 3-12

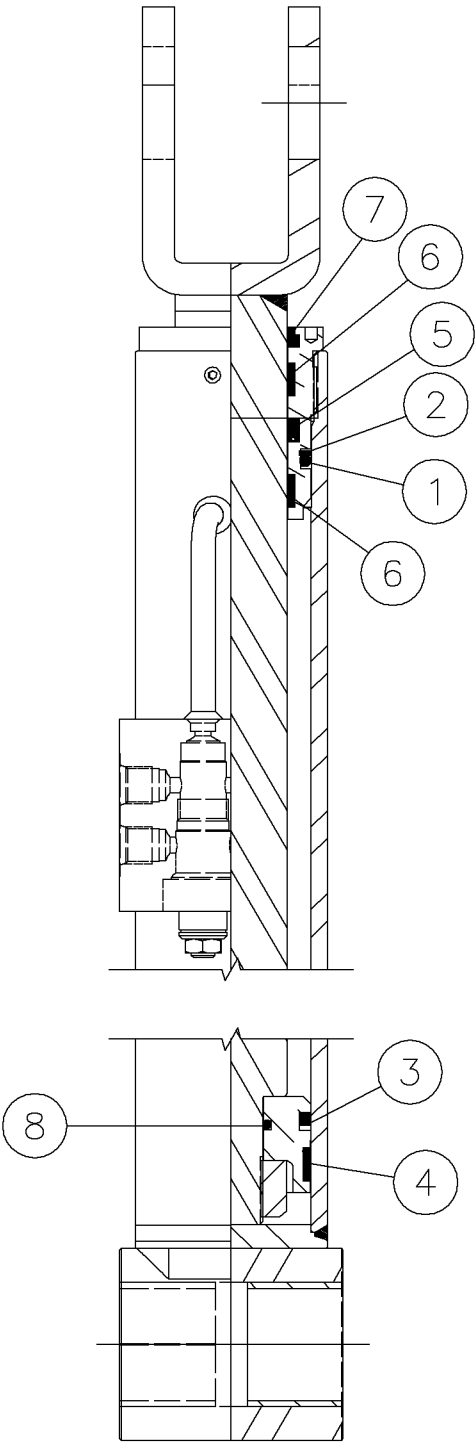
Illustration No. 296320769



Outrigger Cylinder Fig 3-12

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306431	CYLINDER 2.5" BORE X 14" STROKE	1	Breakdown Fig. 3-12z01
2		296320773	PLATE - PIN KEEPER	1	
3		296320774	ROD - PIN	1	
4		510063	PIN-1/4X3 1/2 COTTER	2	
5		57950001	FITTING - 90-6MORBA-4MJ	1	
6		296327017	FITTING - 90 - 6MORBA X 4MJ - LONG	1	

Components-Outrigger Cylinder Fig 3-12z01

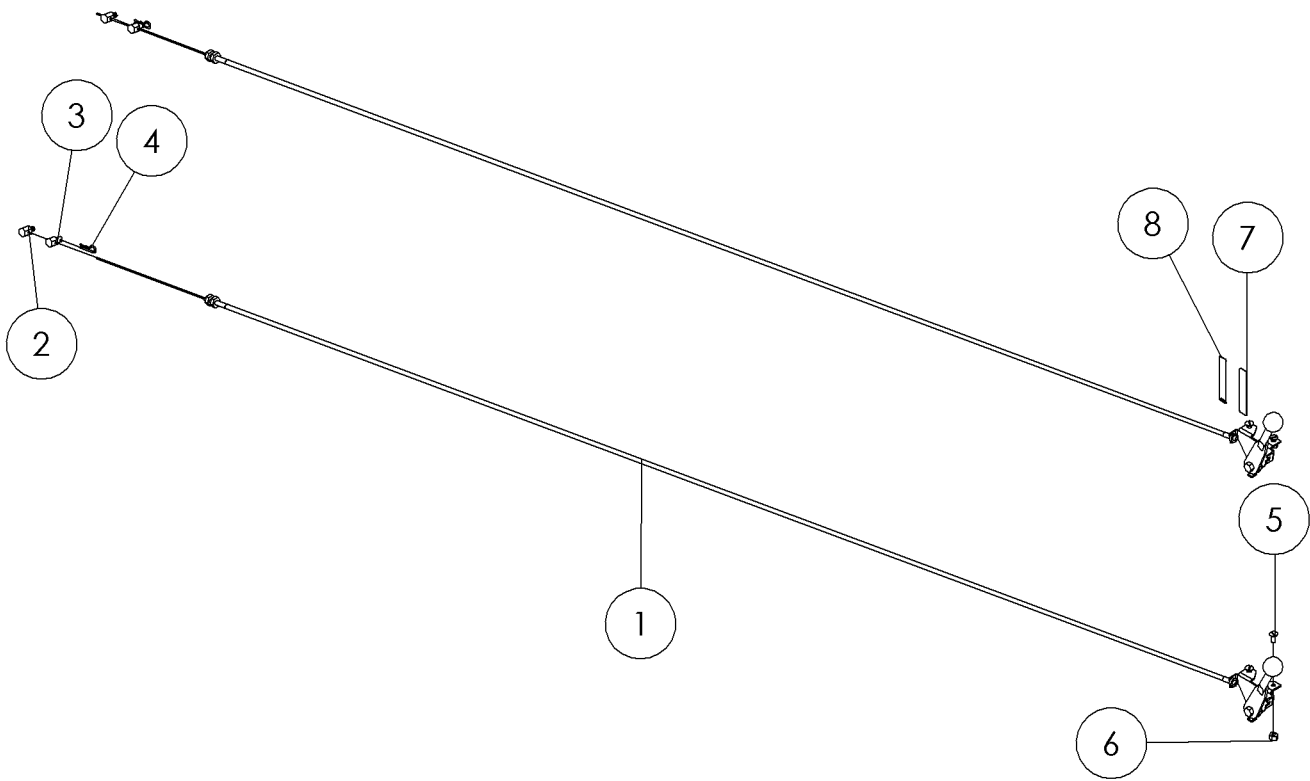


Components-Outrigger Cylinder Fig 3-12z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1			O-RING	1	NOT SOLD SEPARATELY
2			BACKUP	1	NOT SOLD SEPARATELY
3			PSP SEAL	1	NOT SOLD SEPARATELY
4			WEAR RING	1	NOT SOLD SEPARATELY
5			BS SEAL	1	NOT SOLD SEPARATELY
6			WEAR RING-HT	1	NOT SOLD SEPARATELY
7			DUST SEAL	1	NOT SOLD SEPARATELY
8			O-RING	1	NOT SOLD SEPARATELY
		296306431	CYLINDER 2.5" BORE X 14" STROKE		Include All Items In Figure
		296284767	SEAL KIT		(Include Refs' 1-8)

Throttle Fig 3-13

Illustration No. 296308152

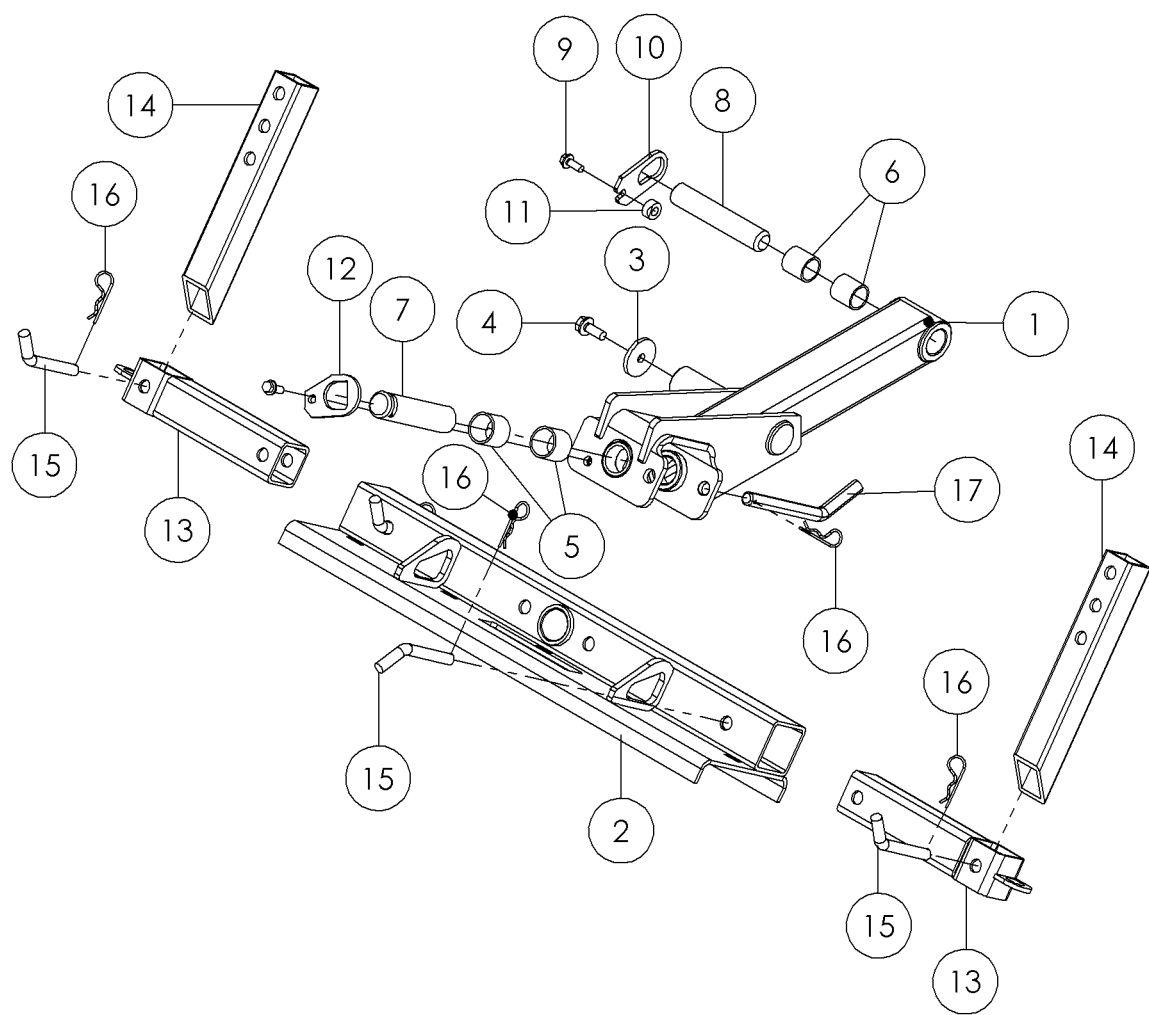


Throttle Fig 3-13

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296308136	CABLE - THROTTLE	2	
2		296308179	STOP-WIRE	2	
3		2809001	PIVOT AO47641	2	
4		1794007	HAIR PIN COTTER - .080 WIRE	2	
5		79525001	SCREW-#10-24X1/2 FLHD MACHINE	4	
6		284471001	NUT - 10-24	4	
7		700IE058	DECAL - THROTTLE	1	
8		700ic035	DECAL - THROTTLE	1	

Outrigger Frame (SN 160-) Fig 3-14r01

Illustration No. 296320768

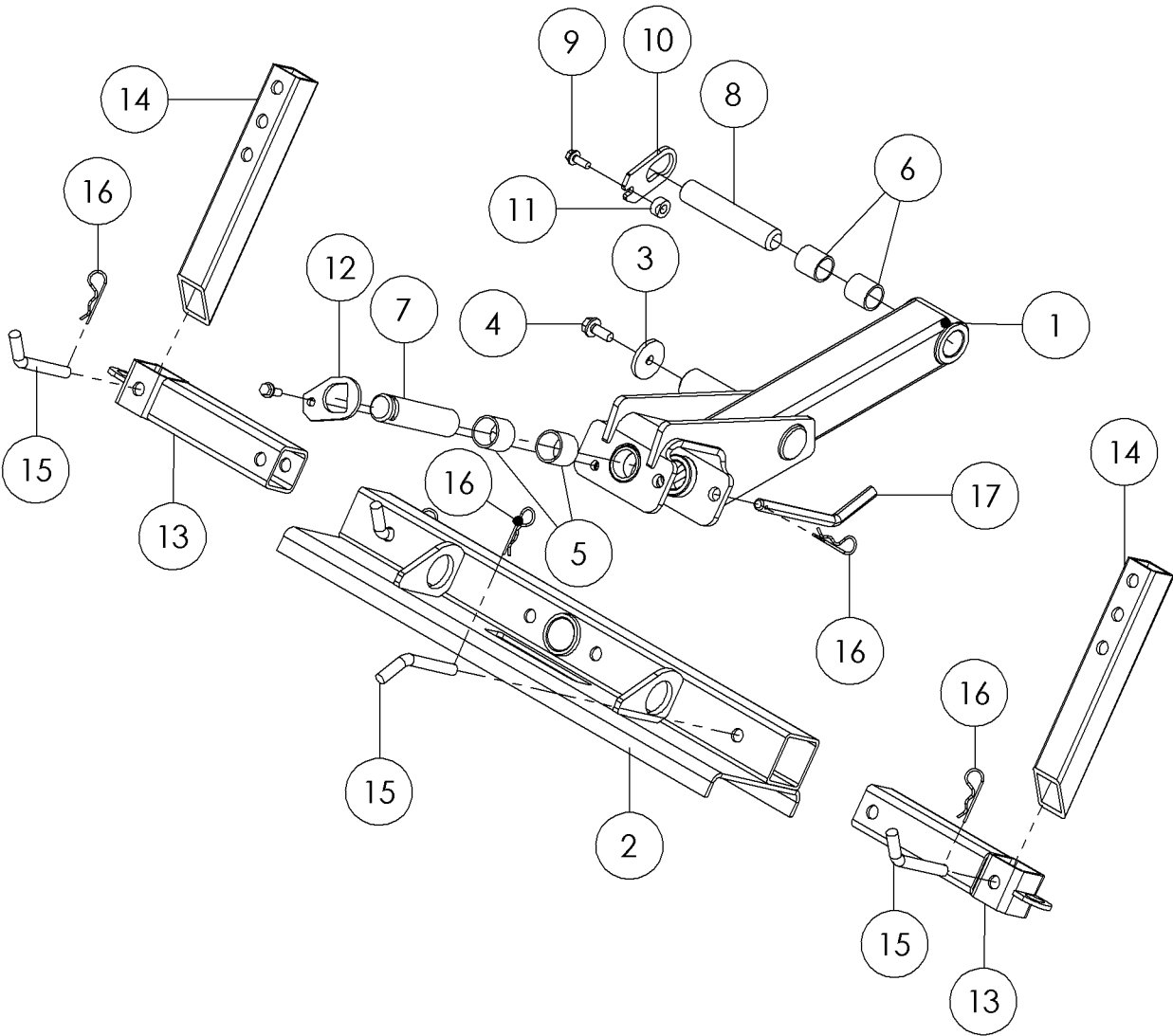


Outrigger Frame (SN 160-) Fig 3-14r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296320766	WELDMENT - OUTRIGGER ARM	1	
2		296320767	*WELDMENT - OUTRIGGER FOOT	1	(s/n)
3		510359621	WASHER-FLATWRT-.50-.53X2.25-.25-YZ	1	
4		296300789	SCREW-HFS-.50-13X1.25-GR8-YZ	1	
5		296320906	BRG-POLY 1.50 ID X 1.75 OD X 1.5L	2	
6		296320904	BSHG - 1.5OD X 1.25ID-1.50	2	
7		296320772	PIN - 1.5" X 5.5"	1	
8		296296121	PIN - OUTRIGGER CYL	1	
9		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	2	
10		296293878	PLATE - PIN LOCK	1	
11		252459001	TUBE - 1 OD X 1/2 ID - 1/2"	1	
12		296320771	PLATE - PIN LOCK	1	
13		296320817	WELDMENT - OUTRIGGER EXTENTION	2	
14		296266507	STAKE - OUTRIGGER PAD	2	
15		278124001	ROD - FOOT PIN	4	
16		1793005	HAIR PIN COTTER - .125 WIRE	5	
17		296320819	PINT - OUTRIGGER FOOT	1	

Outrigger Frame (SN 101-159) Fig 3-14

Illustration No. 296320768

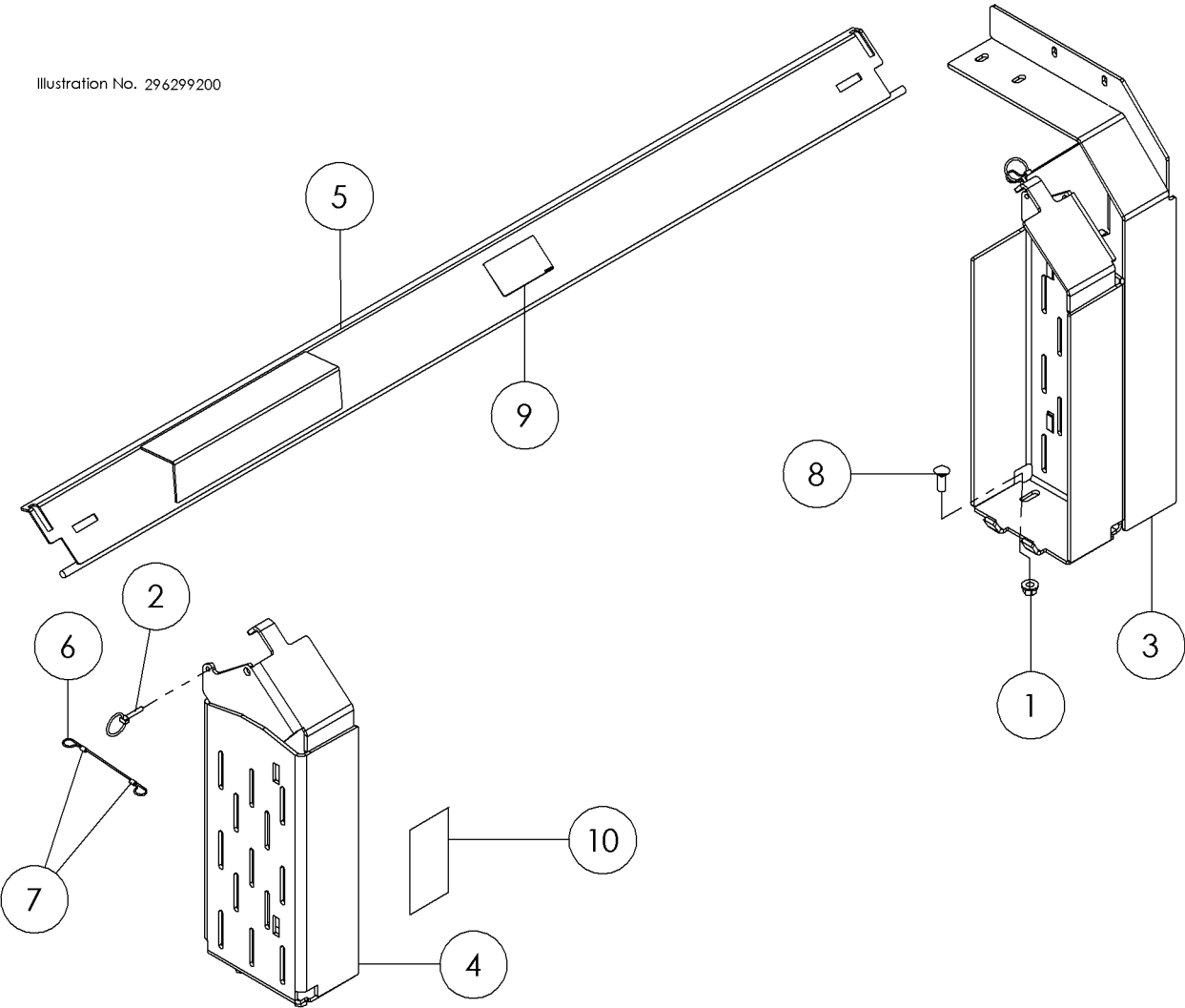


Outrigger Frame (SN 101-159) Fig 3-14

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296320766	WELDMENT - OUTRIGGER ARM	1	
2		296320767	WELDMENT - OUTRIGGER FOOT	1	
3		510359621	WASHER-FLATWRT-.50-.53X2.25-.25-YZ	1	
4		296300789	SCREW-HFS-.50-13X1.25-GR8-YZ	1	
5		296320906	BRG-POLY 1.50 ID X 1.75 OD X 1.5L	2	
6		296320904	BSHG - 1.5OD X 1.25ID-1.50	2	
7		296320772	PIN - 1.5" X 5.5"	1	
8		296296121	PIN - OUTRIGGER CYL	1	
9		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	2	
10		296293878	PLATE - PIN LOCK	1	
11		252459001	TUBE - 1 OD X 1/2 ID - 1/2"	1	
12		296320771	PLATE - PIN LOCK	1	
13		296320817	WELDMENT - OUTRIGGER EXTENTION	2	
14		296266507	STAKE - OUTRIGGER PAD	2	
15		278124001	ROD - FOOT PIN	4	
16		1793005	HAIR PIN COTTER - .125 WIRE	5	
17		296320819	PINT - OUTRIGGER FOOT	1	

Rod Box Fig 3-15

Illustration No. 296299200

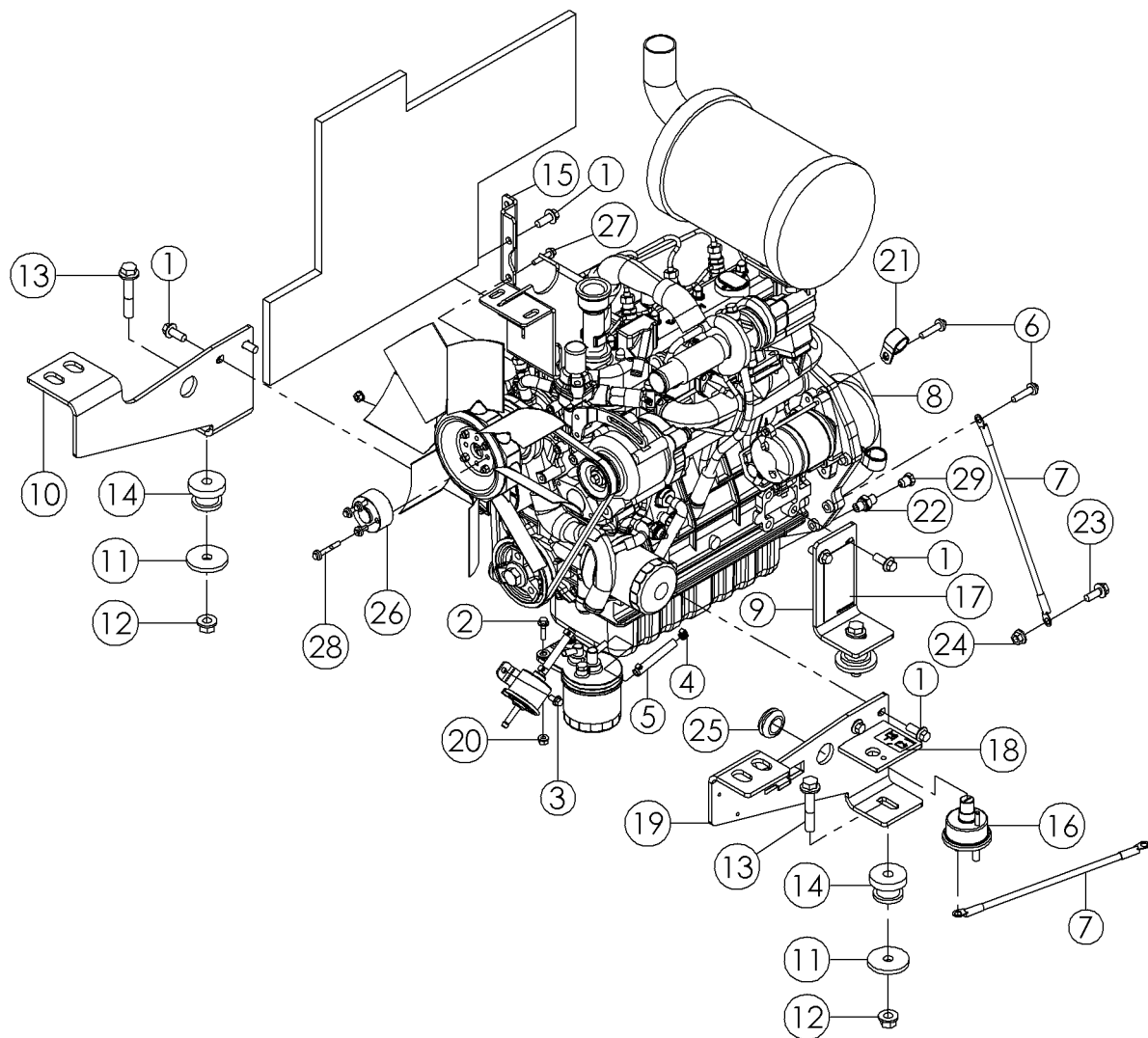


Rod Box Fig 3-15

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296300851	NUT-HEXFLGTL-.50-13-G-YZ	4	
2		1797003	PIN-QUICK LATCH 1/4"- XCX 6M DIA ZYC	2	
3		296299203	WELDMENT - UPPER ROD BOX END	1	
4		296299202	WELDMENT - FRONT ROD BOX	1	
5		296299208	WELDMENT - ROD BOX LID	1	
6		1830007	CABLE - 3/32" NYLON COATED (FT)	2	
7		1838001	CONNECTOR-WIRE (ETC)	4	
8		377014	BOLT-1/2-13X1 1/2"GD#5CARRIAGE	4	
9		700IC340	DECAL - ROD BOX	1	Domestic/International
10		7000A627	*DECAL-DANGER	1	Domestic
10		700IA627	*DECAL-DANGER	1	International

Engine Mount Fig 4-1r02

Illustration No. 296306169

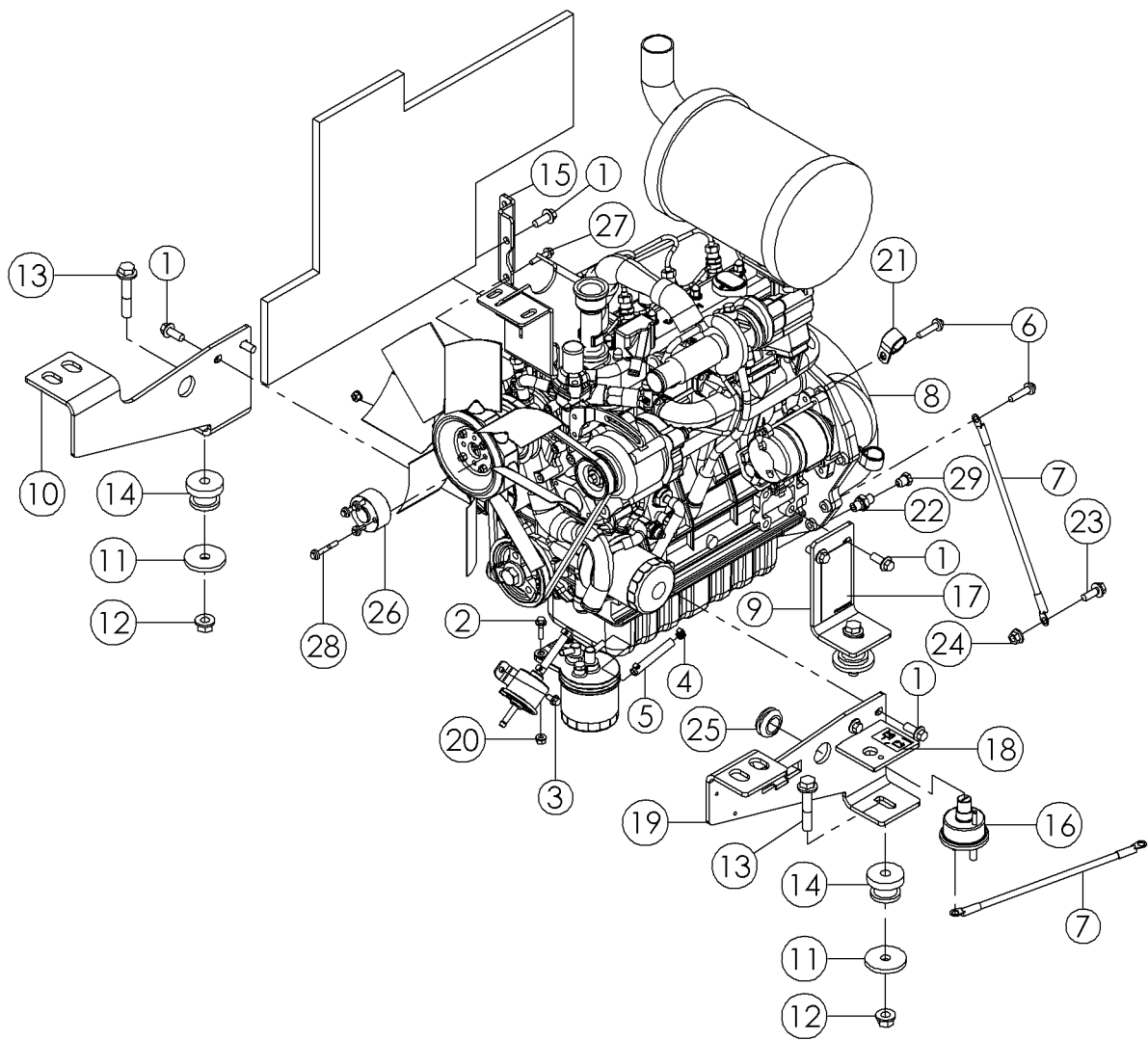


Engine Mount Fig 4-1r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296300947	SCREW - HFS - M10-1.25 X 25 - 10.9-YZ	9	
2		296300754	SCREW-HFS-.25-20X1.00-GR8-YZ	2	
3		296300751	SCREW HFS-.25-20X50GR8-Y2	2	
4		1580001	HOSE CLAMP - WORM GEAR - 5/16" - 7/8"	4	
5		620001	HOSE - 5/16 FUEL LINE	2	
6		507611035	SCREW-HFS,M8-1.25X35,10.9,YZ,D6921,PT	3	
7		219380001	STRAP-GROUND 4 GA.X12" E-E	2	
8		296306168	ENGINE - KUBOTA 1505T	1	Breakdown Fig. 4-2
9		296319024	PLATE - REAR ENGINE MOUNT	2	
10		296319026	PLATE - RT FRONT ENGINE MOUNT	1	
11		510359621	WASHER-FLATWRT-.50-.53X2.25-.25-YZ	4	
12		296300851	NUT-HEXFLGTL-.50-13-G-YZ	4	
13		296300795	SCREW-HFS-.50-13X2.75-GR8-YZ	4	
14		236373001	ISOLATOR-CB-1122-2 RUBBER	4	
15		296319049	PLATE - THROTTLE MOUNTS	1	
16		904365001	DISCONNECT SWITCH	1	
17		7000c446	DECAL - NO WELD	1	
18		700ia477	DECAL - BATTERY SWITCH (UG)	1	
19		296320525	MOUNT - LH FRONT ENGINE	1	
20		296300848	NUT-HEXFLGTL-.25-20-G-YZ	3	
21		180014248	CLAMP-HOSE 7/8"	2	
22		235679001	FITTING-M12X1.25X6M JIC ST	1	
23		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	1	
24		296300850	NUT-HEXFLGTL-.38-16-G-YZ	1	
25		1865017	GROMMET-7/8IDX1.25OD 1/4GROOVE	2	
26		296319118	BAR - 1" FAN SPACER	1	
27		296300755	SCREW-HFS-.25-20X1.25-GRI-YZ	1	
28		507610040	SCREW-HFS,M6-1.00X40,10.9,YZ,D6921,FT	4	
29		83635001	PLUG-#6 JIC MALE	1	
30		296320727	*WELDMENT - UPPER RADIATOR SUPPORT	1	
31		507611016	*SCREW-HFS,M8-1.25X16,10.9,YZ,D6921,FT	2	

Engine Mount Fig 4-1r01

Illustration No. 296306169

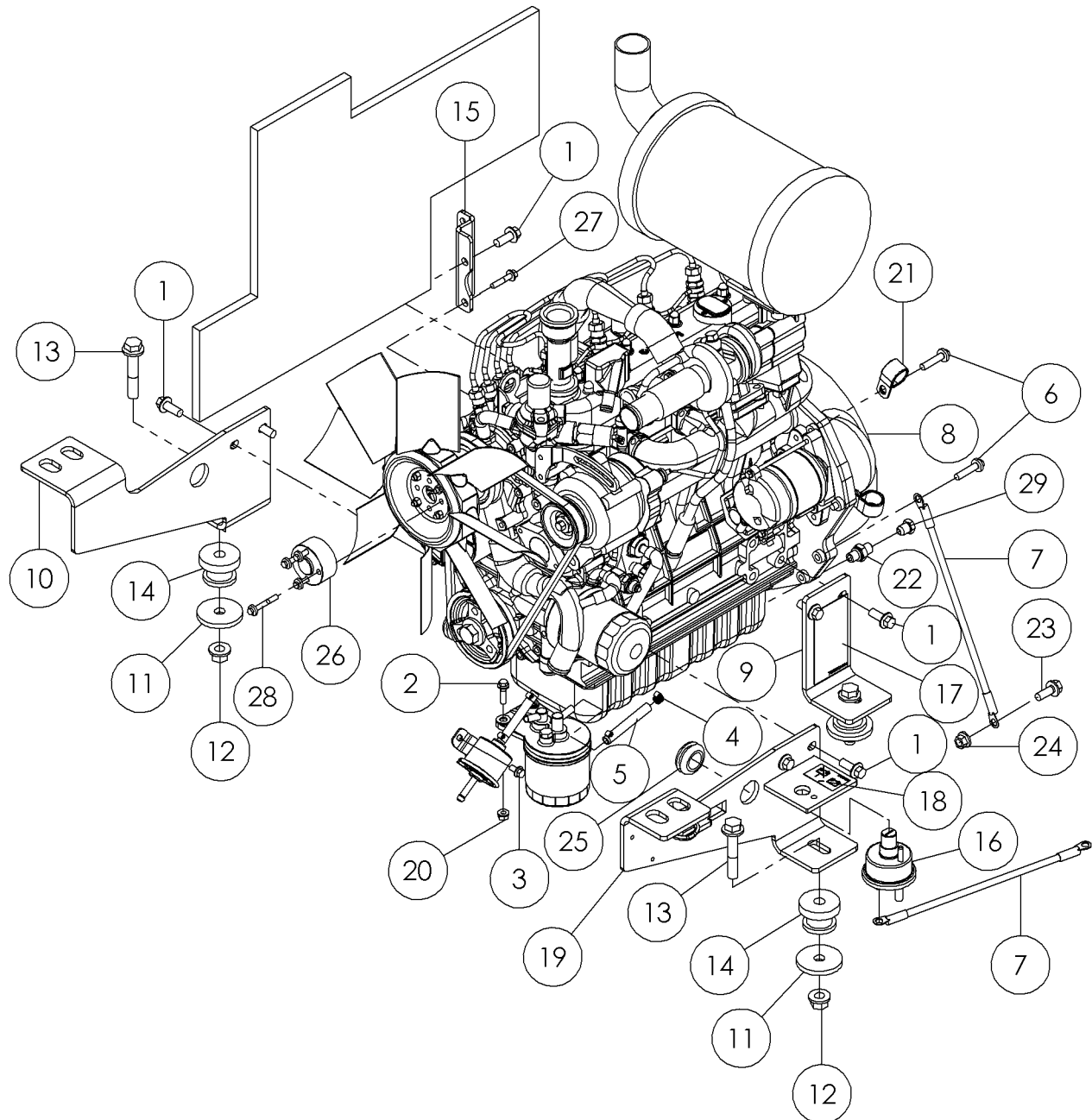


Engine Mount Fig 4-1r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296300947	SCREW - HFS - M10-1.25 X 25 - 10.9-YZ	9	
2		296300754	SCREW-HFS-.25-20X1.00-GR8-YZ	2	
3		296300751	SCREW HFS-.25-20X50GR8-Y2	2	
4		1580001	HOSE CLAMP - WORM GEAR - 5/16" - 7/8"	4	
5		620001	HOSE - 5/16 FUEL LINE	2	
6		507611035	SCREW-HFS,M8-1.25X35,10.9,YZ,D6921,PT	3	
7		219380001	STRAP-GROUND 4 GA.X12" E-E	2	
8		296306168	ENGINE - KUBOTA 1505T	1	Breakdown Fig 4-2
9		296319024	PLATE - REAR ENGINE MOUNT	2	
10		296319026	PLATE - RT FRONT ENGINE MOUNT	1	
11		510359621	WASHER-FLATWRT-.50-.53X2.25-.25-YZ	4	
12		296300851	NUT-HEXFLGTL-.50-13-G-YZ	4	
13		296300795	SCREW-HFS-.50-13X2.75-GR8-YZ	4	
14		236373001	ISOLATOR-CB-1122-2 RUBBER	4	
15		296319049	PLATE - THROTTLE MOUNTS	1	
16		904365001	DISCONNECT SWITCH	1	
17		7000C446	DECAL - NO WELD	1	
18		700IA477	DECAL - BATTERY SWITCH (UG)	1	
19		296320525	MOUNT - LH FRONT ENGINE	1	
20		296300848	NUT-HEXFLGTL-.25-20-G-YZ	3	
21		180014248	CLAMP-HOSE 7/8"	2	
22		235679001	FITTING-M12X1.25X6M JIC ST	1	
23		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	1	
24		296300850	NUT-HEXFLGTL-.38-16-G-YZ	1	
25		1865017	GROMMET-7/8IDX1.25OD 1/4GROOVE	2	
26		296319118	BAR - 1" FAN SPACER	1	
27		296300755	SCREW-HFS-.25-20X1.25-GRI-YZ	1	
28		507610040	SCREW-HFS,M6-1.00X40,10.9,YZ,D6921,FT	4	
29		83635001	PLUG-#6 JIC MALE	1	

Engine Mount Fig 4-1

Illustration No. 296306169

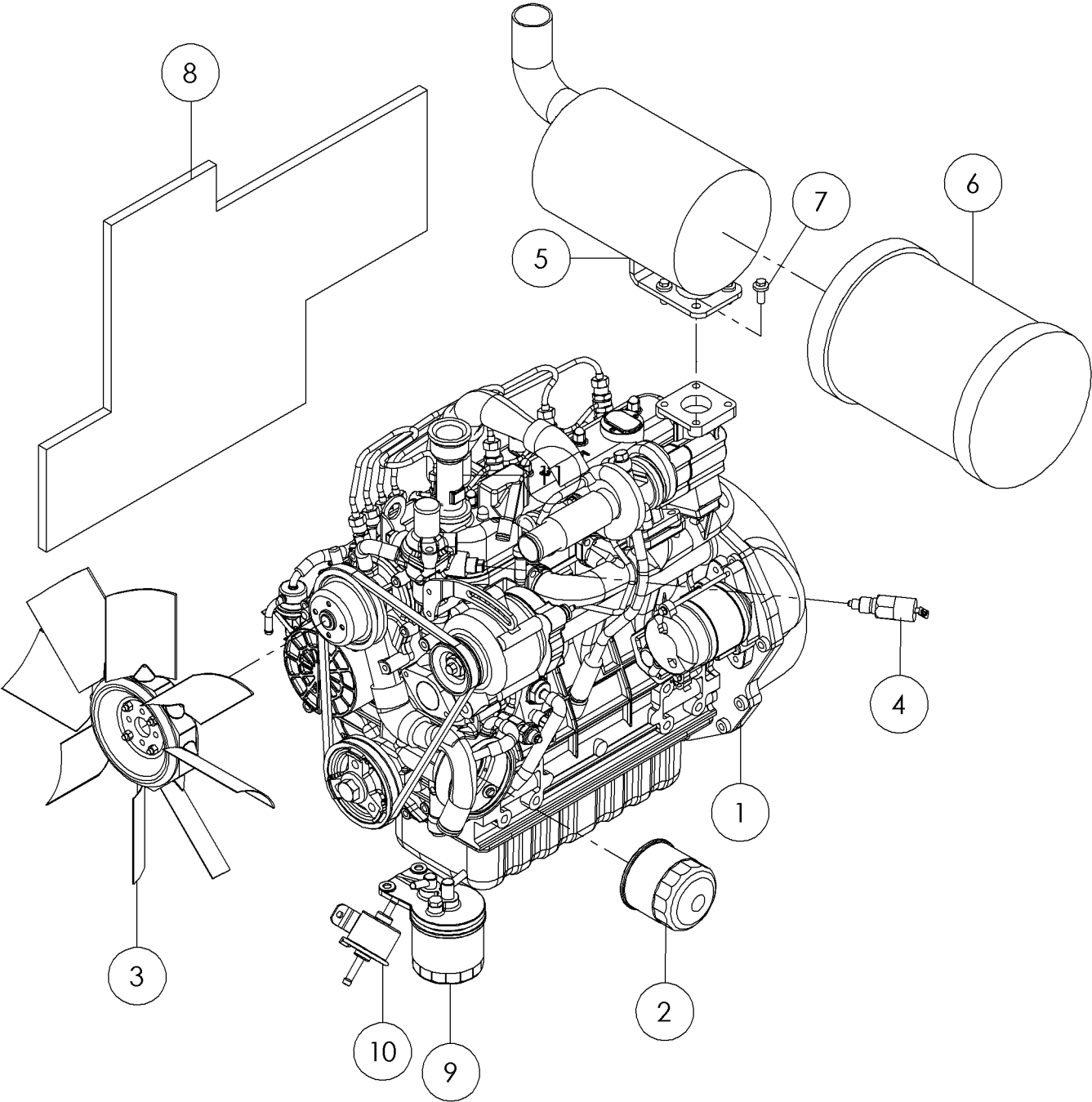


Engine Mount Fig 4-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296300947	SCREW - HFS - M10-1.25 X 25 - 10.9-YZ	9	
2		296300754	SCREW-HFS-.25-20X1.00-GR8-YZ	2	
3		296300751	SCREW HFS-.25-20X50GR8-Y2	2	
4		1580001	HOSE CLAMP - WORM GEAR - 5/16" - 7/8"	4	
5		620001	*HOSE - 5/16 FUEL LINE	2	
6		507611035	SCREW-HFS,M8-1.25X35,10.9,YZ,D6921,PT	3	
7		219380001	STRAP-GROUND 4 GA.X12" E-E	2	
8		296306168	ENGINE - KUBOTA 1505T	1	Breakdown Figure 4-2
9		296319024	PLATE - REAR ENGINE MOUNT	2	
10		296319026	PLATE - RT FRONT ENGINE MOUNT	1	
11		510359621	WASHER-FLATWRT-.50-.53X2.25-.25-YZ	4	
12		296300851	NUT-HEXFLGTL-.50-13-G-YZ	4	
13		296300795	SCREW-HFS-.50-13X2.75-GR8-YZ	4	
14		236373001	ISOLATOR-CB-1122-2 RUBBER	4	
15		296319049	PLATE - THROTTLE MOUNTS	1	
16		904365001	DISCONNECT SWITCH	1	
17		7000C446	DECAL - NO WELD	1	
18		700IA477	DECAL - BATTERY SWITCH (UG)	1	
19		296320525	MOUNT - LH FRONT ENGINE	1	
20		296300848	NUT-HEXFLGTL-.25-20-G-YZ	3	
21		180014248	CLAMP-HOSE 7/8"	2	
22		235679001	FITTING-M12X1.25X6M JIC ST	1	
23		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	1	
24		296300850	NUT-HEXFLGTL-.38-16-G-YZ	1	
25		1865017	GROMMET-7/8IDX1.25OD 1/4GROOVE	2	
26		296319118	BAR - 1" FAN SPACER	1	
27		296300755	*SCREW-HFS-.25-20X1.25-GRI-YZ	1	
28		507610040	*SCREW-HFS,M6-1.00X40,10.9,YZ,D6921,FT	4	
29		83635001	*PLUG-#6 JIC MALE	1	

Engine Fig 4-2

Illustration No. 296306168

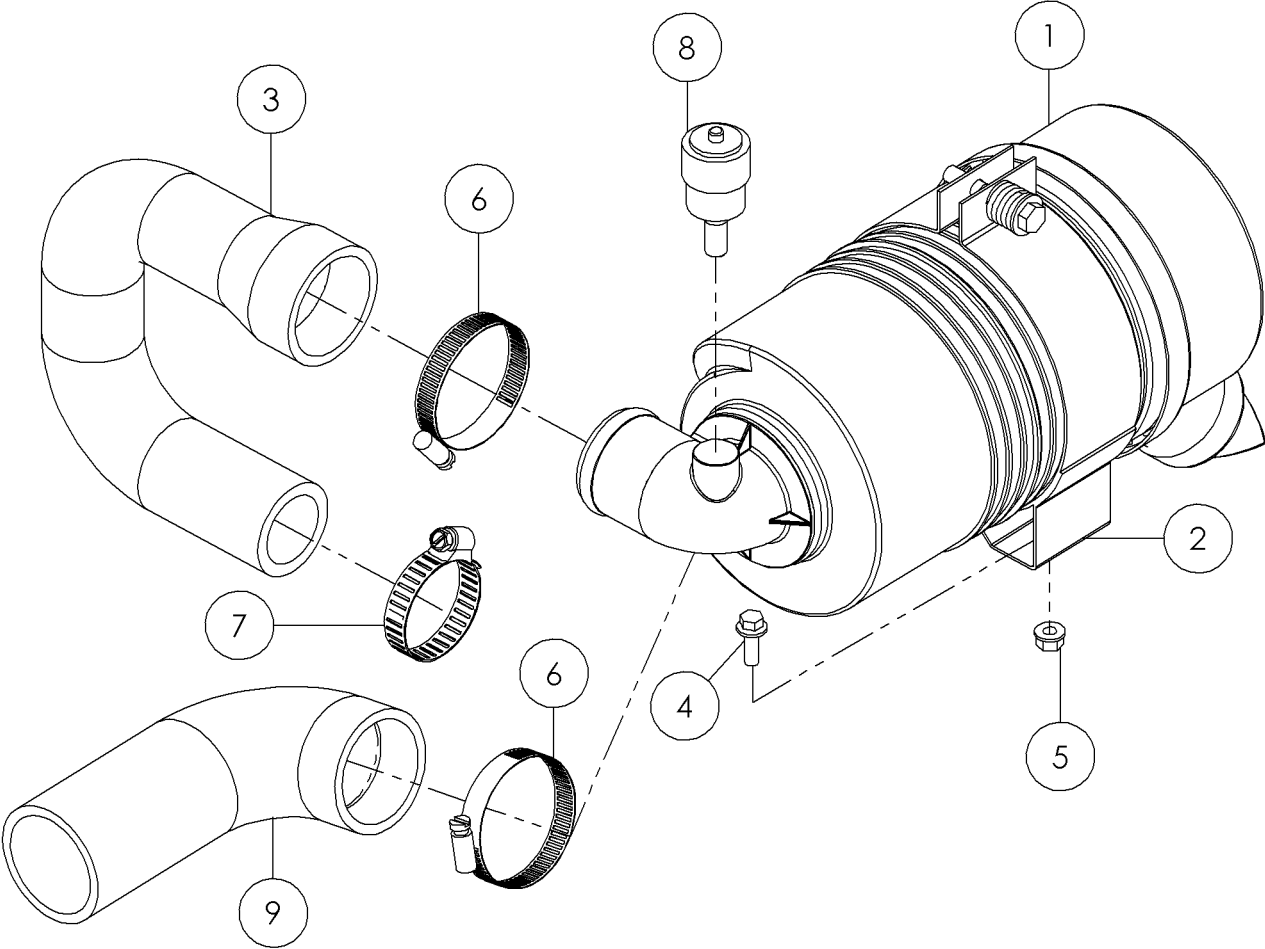


Engine Fig 4-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306168	ENGINE - KUBOTA 1505T	1	
2		296306164	FILTER - OIL 80MM	1	
3		296283880	FAN-8 BLADE 14.62 IN DIA D7X11 II 10 FT	1	
4		296282344	SENDER - WATER TEMP TD	1	
5		296306177	MUFFLER - 1.75" INLET/OUTLET	1	
6		296308154	BLANKET - MUFFLER D9X13	1	
7		507611020	SCREW-HFS,M8- 1.25X20,10.9,YZ,D6921,FT	4	
8		296320572	BLANKET - EXHAUST MANIFOLD	1	
9		296276753	FUEL FILTER ASSY	1	
10		296271098	ELECTRIC FUEL PUMP	1	

Air Cleaner Fig 4-3

Illustration No. 296306176

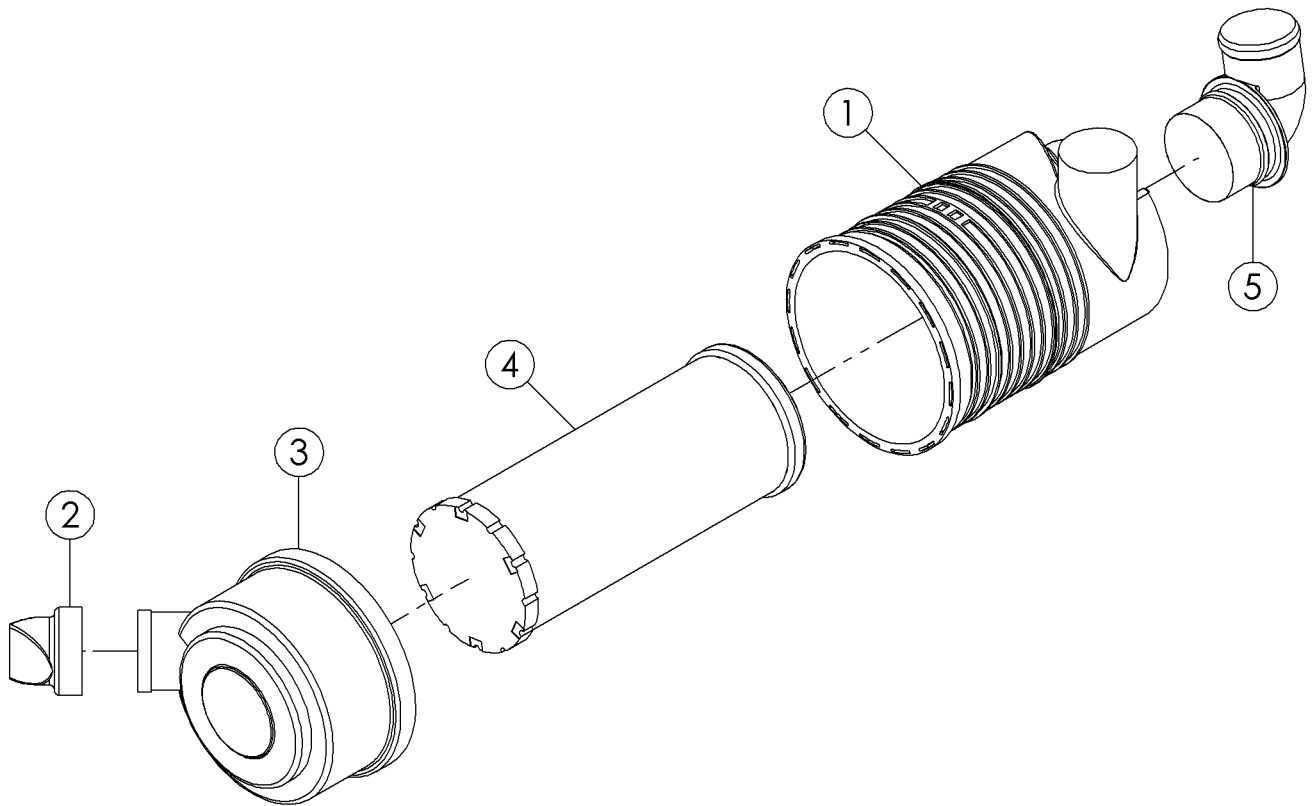


Air Cleaner Fig 4-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		287130001	AIR CLEANER	1	Breakdown Figure 4-3z01
2		224286001	CLAMP-AIRCLEANER-5.75 DIA	1	
3		296319042	HOSE - AIR INTAKE	1	
4		296300753	SCREW-HFS-.25-20x.75-GR8-YZ	2	
5		296300848	NUT-HEXFLGTL-.25-20-G-YZ	2	
6		1580013	HOSE CLAMP - 2 1/2"	2	
7		1580007	HOSE CLAMP - 1 1/2"	1	
8		2165001	INDICATOR - RAX00-2352	1	
9		296320629	*HOSE - AIR INLET	1	

Components-Air Cleaner Fig 4-3z01

Illustration No. 224285001

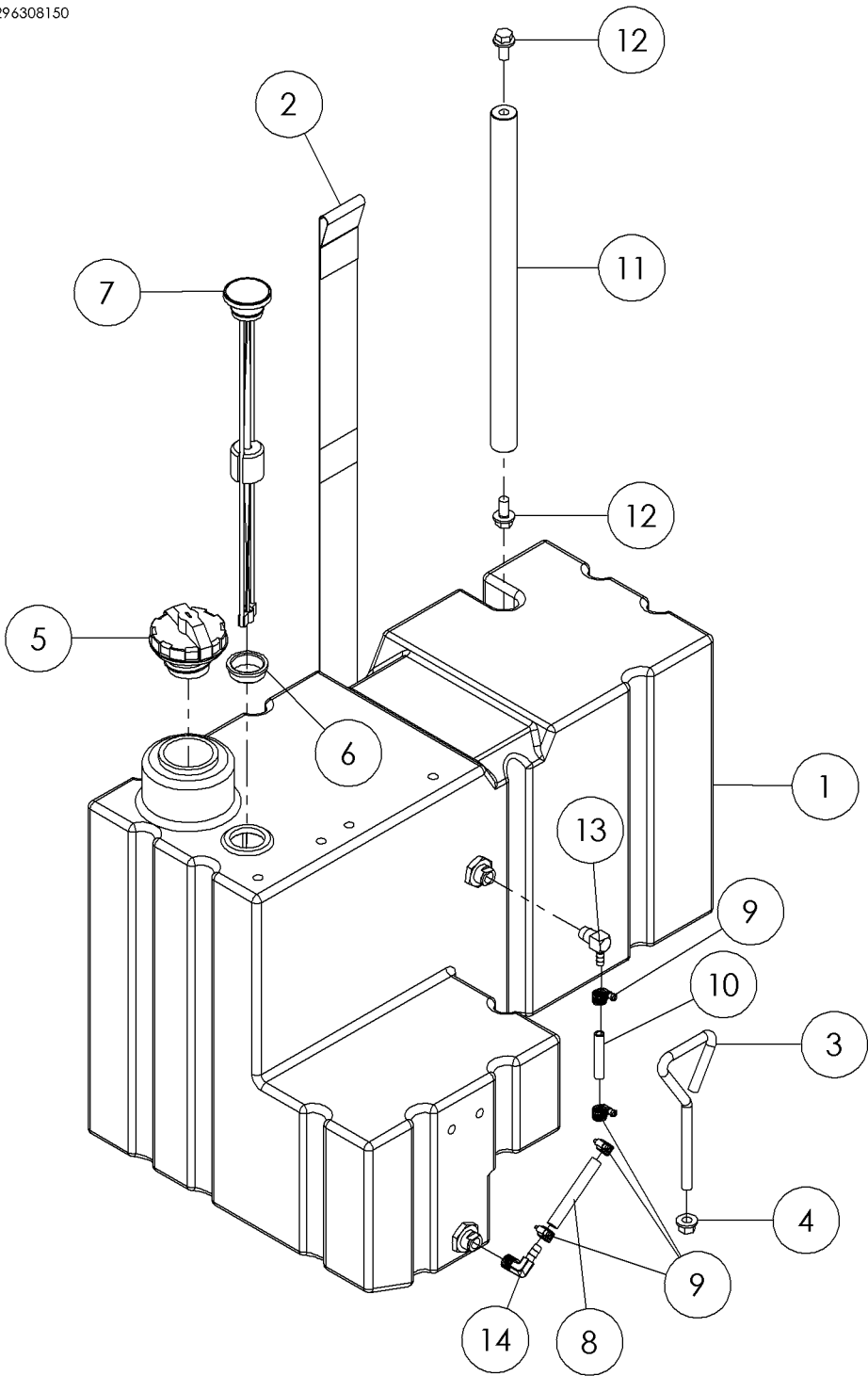


Components-Air Cleaner Fig 4-3z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		163149001	BODY ASSEMBLY	10	
2		224285011	VALVE	1	
3		224285009	COVER	1	
4		224285007	ELEMENT - PRIMARY	1	
5		224285001	AIR CLEANER-2" OUTLET	1	
		287130001	CLEANER - 5.75" AIR		Includes All Items In Figure

Fuel Tank Fig 4-4

Illustration No. 296308150

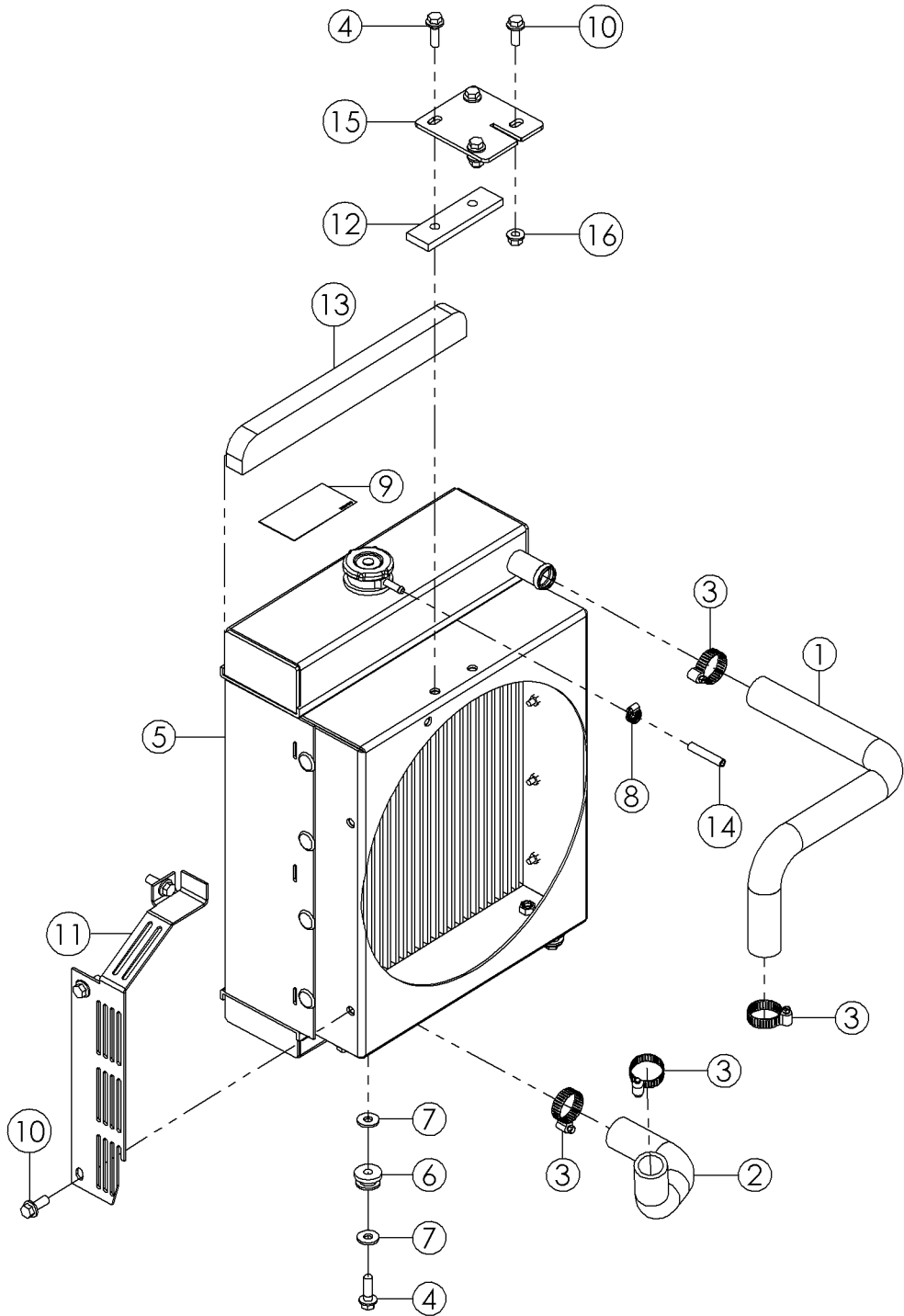


Fuel Tank Fig 4-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296319086	TANK - FUEL 14 GAL	1	
2		296307017	STRAP-FUEL TANK TIE DOWN, BLACK NYLON 2" X 35.25"	1	
3		903862001	BOLT-WATER TANK HOLD DOWN	1	
4		296300850	NUT-HEXFLGTL-.38-16-G-YZ	1	
5		279326001	CAP - DIESEL FUEL W/LOCK	1	
6		268440001	GROMMET - KELCH GAUGE	1	
7		296320547	REMOTE FUEL GAUGE KELCH - 15"	1	
8		620001	HOSE - 5/16 FUEL LINE	1	
9		242699001	CLAMP-5/16" ID	4	
10		619001	HOSE-1/4 I.D.GASOLINE&DIESEL	1	
11		296320600	BAR - WATER PUMP SUPPORT	1	
12		296300771	SCREW-HFS-..38-16X.75GR8-YZ	2	
13		608118001	*FITTING-1/4NPTX1/4HOSE BARB90	1	
14		602037001	FITTING -1/4 PIPE 5/16 BARB 90	1	

Cooling Package Fig 4-5r01

Illustration No. 296306179

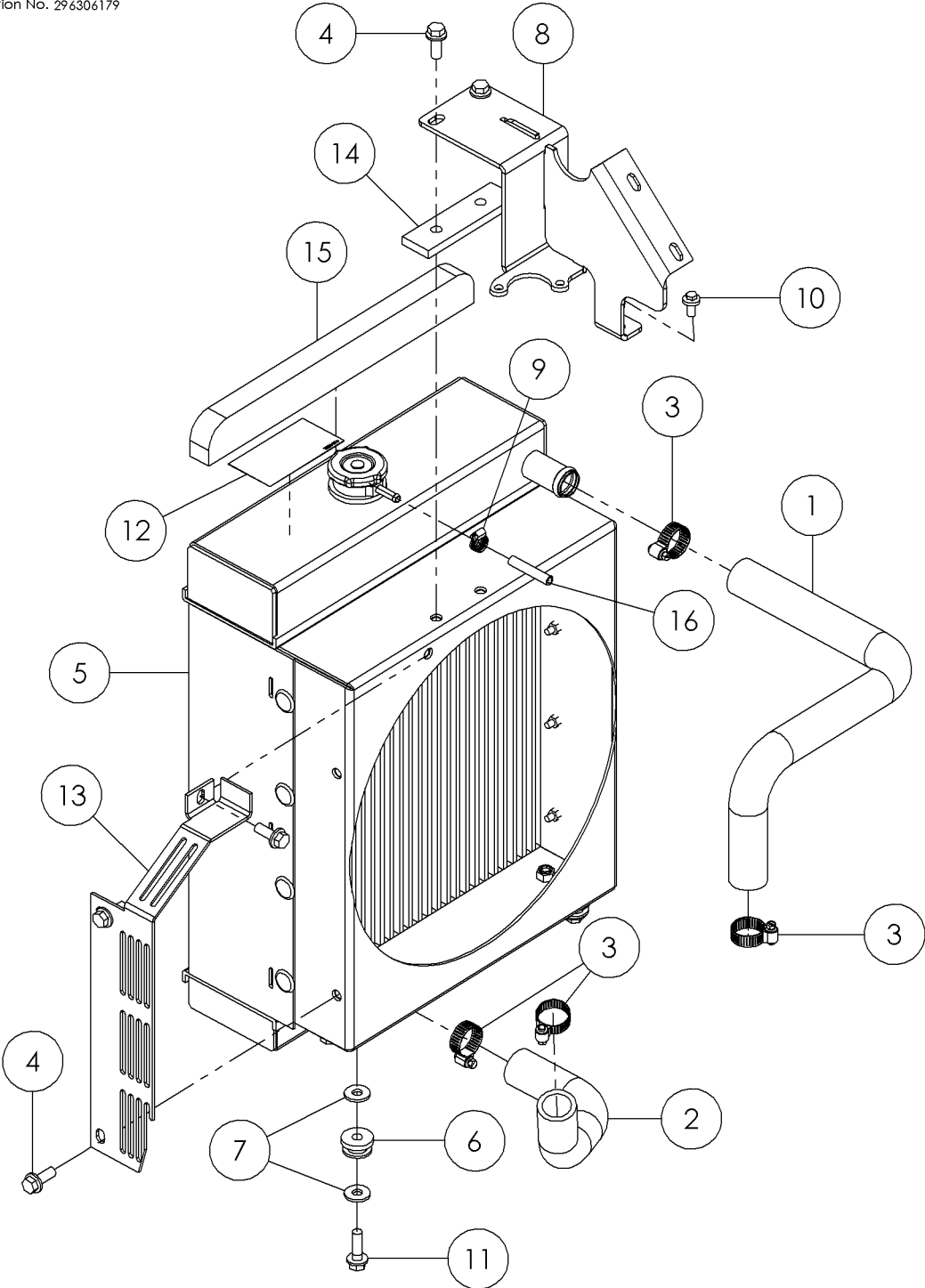


Cooling Package Fig 4-5r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296284285	HOSE-UPPER RADIATOR	1	
2		296284286	HOSE-LOWER HOSE	1	
3		1580005	HOSE CLAMP - 1"	4	
4		296300773	*SCREW-HFS-.38-16X1.25-GR8-YZ	6	
5		296320537	RADIATOR - 4.25" CORE	1	
6		255048001	ISOLATOR-RADIATOR	4	
7		613948001	WASHER- 3/8 X 1.00 O.D.	8	
8		1578001	HOSE CLAMP - WORM GEAR - 1/4" - 5/8"	1	
9		2326315	DECAL-WARNING	1	Domestic
9		23261315	DECAL-WARNING	1	International
10		296300772	SCREW-HFS-.38-16X1.00-GR8-YZ	5	
11		296320540	GUARD - FAN SLOTTED	1	
12		296283898	RUBBER-TOP RADIATOR MOUNT D10X14	1	
13		296320605	FOAM - RADIATOR/HOOD SEAL	1	
14		619001	HOSE-1/4 I.D.GASOLINE&DIESEL	1	
15		296320728	*PLATE - TOP SHROUD MOUNT	1	
16		296300850	NUT-HEXFLGTL-.38-16-G-YZ	2	

Cooling Package Fig 4-5

Illustration No. 296306179

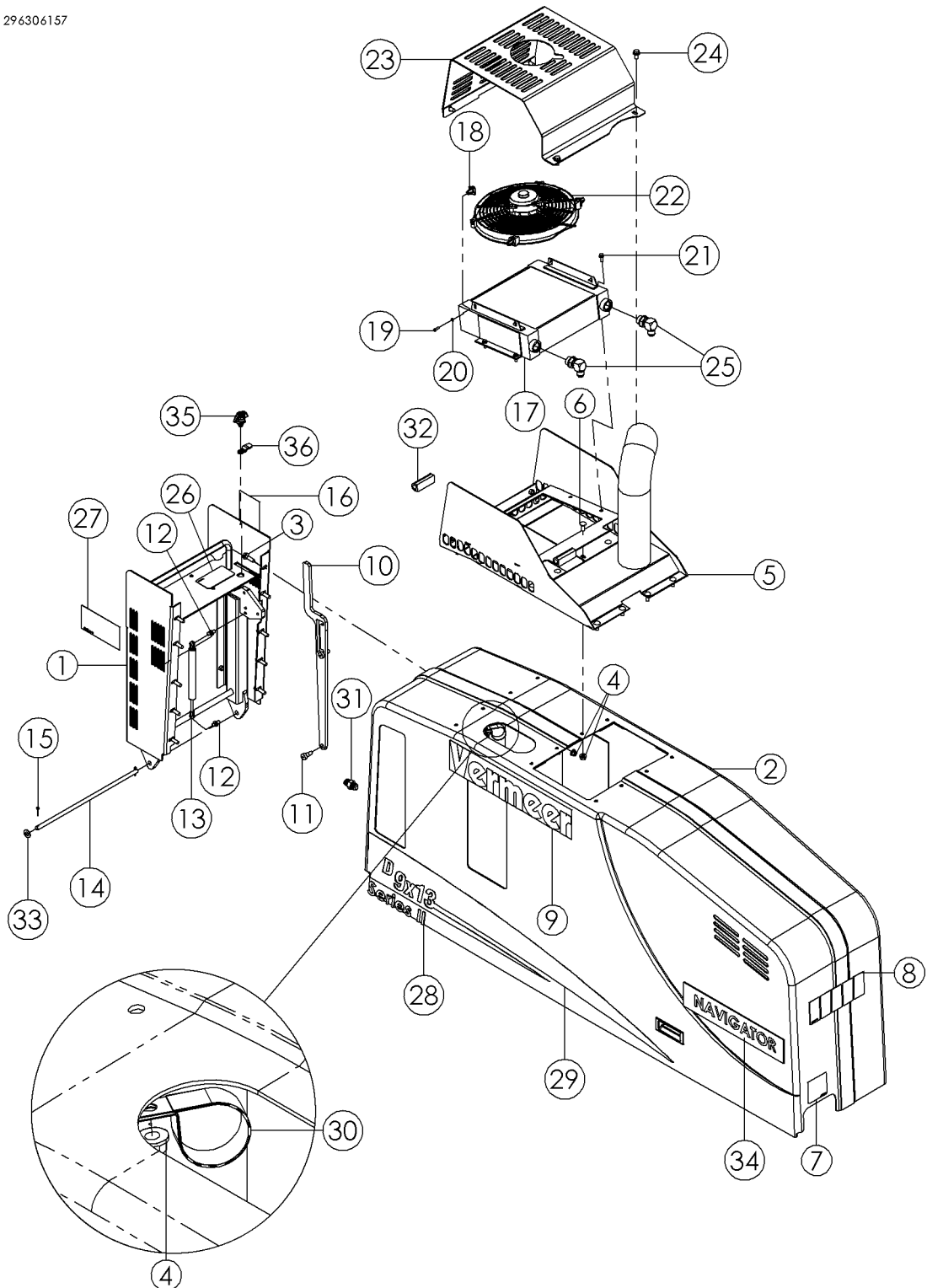


Cooling Package Fig 4-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296284285	HOSE-UPPER RADIATOR	1	
2		296284286	HOSE-LOWER HOSE	1	
3		1580005	HOSE CLAMP - 1"	4	
4		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	5	
5		296320537	RADIATOR - 4.25" CORE	1	
6		255048001	ISOLATOR-RADIATOR	4	
7		613948001	WASHER- 3/8 X 1.00 O.D.	8	
8		296319045	WELDMENT - UPPER RADIATOR SUPPORT	1	
9		1578001	HOSE CLAMP - WORM GEAR - 1/4" - 5/8"	1	
10		507611016	SCREW-HFS,M8-1.25X16,10.9,YZ,D6921,FT	1	
11		296300773	SCREW-HFS-.38-16X1.25-GR8-YZ	4	
12		2326315	DECAL-WARNING	1	Domestic
12		2326I315	*DECAL-WARNING	1	International
13		296320540	GUARD - FAN SLOTTED	1	
14		296283898	RUBBER-TOP RADIATOR MOUNT D10X14	1	
15		296320605	FOAM - RADIATOR/HOOD SEAL	1	
16		619001	*HOSE-1/4 I.D.GASOLINE&DIESEL	1	

Hood (S/N 138, 142-143, 145-) Fig 4-6r02

Illustration No. 296306157

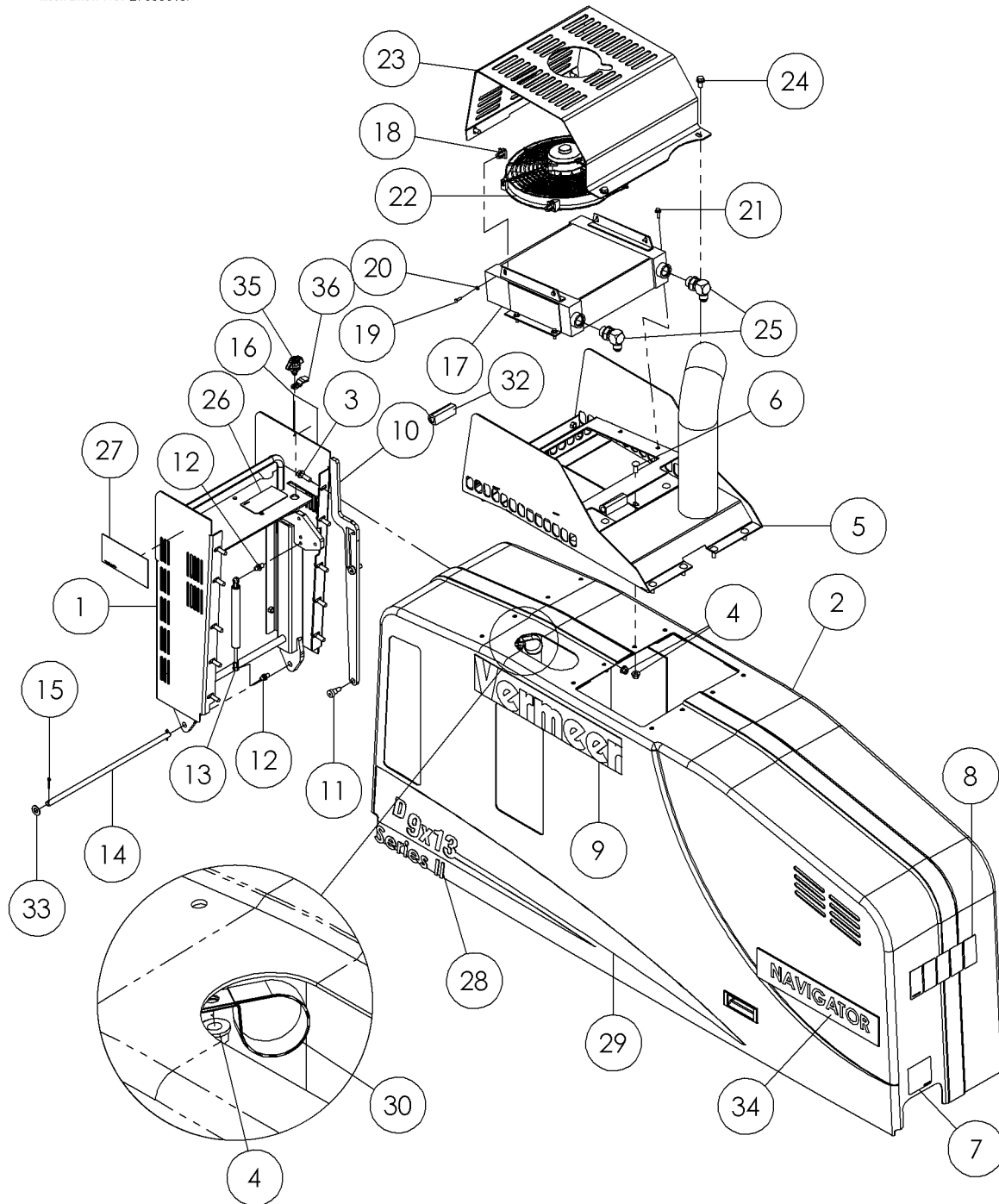


Hood (S/N 138, 142-143, 145-) Fig 4-6r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306151	FRAME - HOOD PIVOT	1	
2		296306205	HOOD - D9 X 13II	1	(138, 142-143, 145-) Breakdown Fig. 4-6z01
3		296300773	SCREW-HFS-.38-16X1.25-GR8-YZ	10	
4		296300850	NUT-HEXFLGTL-.38-16-G-YZ	22	
5		296320505	WELDMENT - HOOD DOG HOUSE	1	
6		375010	BOLT-3/8"-16X1"GD#5 CARRIAGE	12	
7		7000B119	DECAL - PATENT INDUSTRIAL	1	Domestic/International
8		7000B812	DECAL - WARNING	1	Domestic
8		700IB812	DECAL - WARNING	1	International
9		2326595	DECAL VERMEER- 4 1/2 X 24	1	Domestic/International
10		296320523	SLIDE - HOOD LOCK/RELEASE	1	
11		240056001	SCREW-SHSS-.50X.50-.38-16THD-CZ	2	
12		285784001	BALL - STUD	2	
13		251144001	SPRING - GAS ASSIST	1	
14		296320555	ROD - HINGE	1	
15		510009	COTTER PIN-1/8" X 1"	2	
16		7000A627	DECAL-DANGER	1	Domestic
16		700IA627	DECAL-DANGER	1	International
17		296319087	COOLER - 3" OIL	1	
18		226971001	MOUNT-FAN(5MM) (SET OF 4)	4	
19		506030016	SCREW-HCS,M5-.80X16.8.8,YZ,D933,FT	4	
20		506046005	WASHER-FLAT,M5,YZ,D125A	4	
21		296300753	SCREW-HFS-.25-20X.75-GR8-YZ	4	
22		241895001	FAN-12" SEALED ELECTRIC	1	
23		296320531	PLATE - TOP ACCESS TRIM	1	
24		296300771	SCREW-HFS-..38-16X.75GR8-YZ	4	
25		59409001	10M JICX12M ADJ. 90 DEG.ELBOW	2	
26		700IF057	DECAL - HOOD LATCH	1	Domestic/International
27		7000A576	DECAL-DANGER	1	Domestic
27		700IA576	DECAL-DANGER	1	International
28		7000C325	DECAL - SERIES II (10")	1	Domestic/International
29		7000F085	DECAL - 9 X 13II STRIPE	1	Domestic/International
30		204721001	HOSE CLAMP-CCV2913 1 3/4"	2	
31		82497001	FITTING-10M-10M JIC UNION	1	
32		288982001	SEAL - 1" X 1" HALF ROUND	2	
33		252253001	WASHER-1/2 SAE FLAT ZP	2	
34		7000A010	DECAL-MODEL NAVIGATOR(MEDIUM)	1	Domestic/International
35		163642892	CAM-LATCH LOCKABLE WING KNOB	1	
36		296306077	CAM - LOCK 12MM	1	

Hood (S/N 138, 142-143, 145-) Fig 4-6r01

Illustration No. 296306157

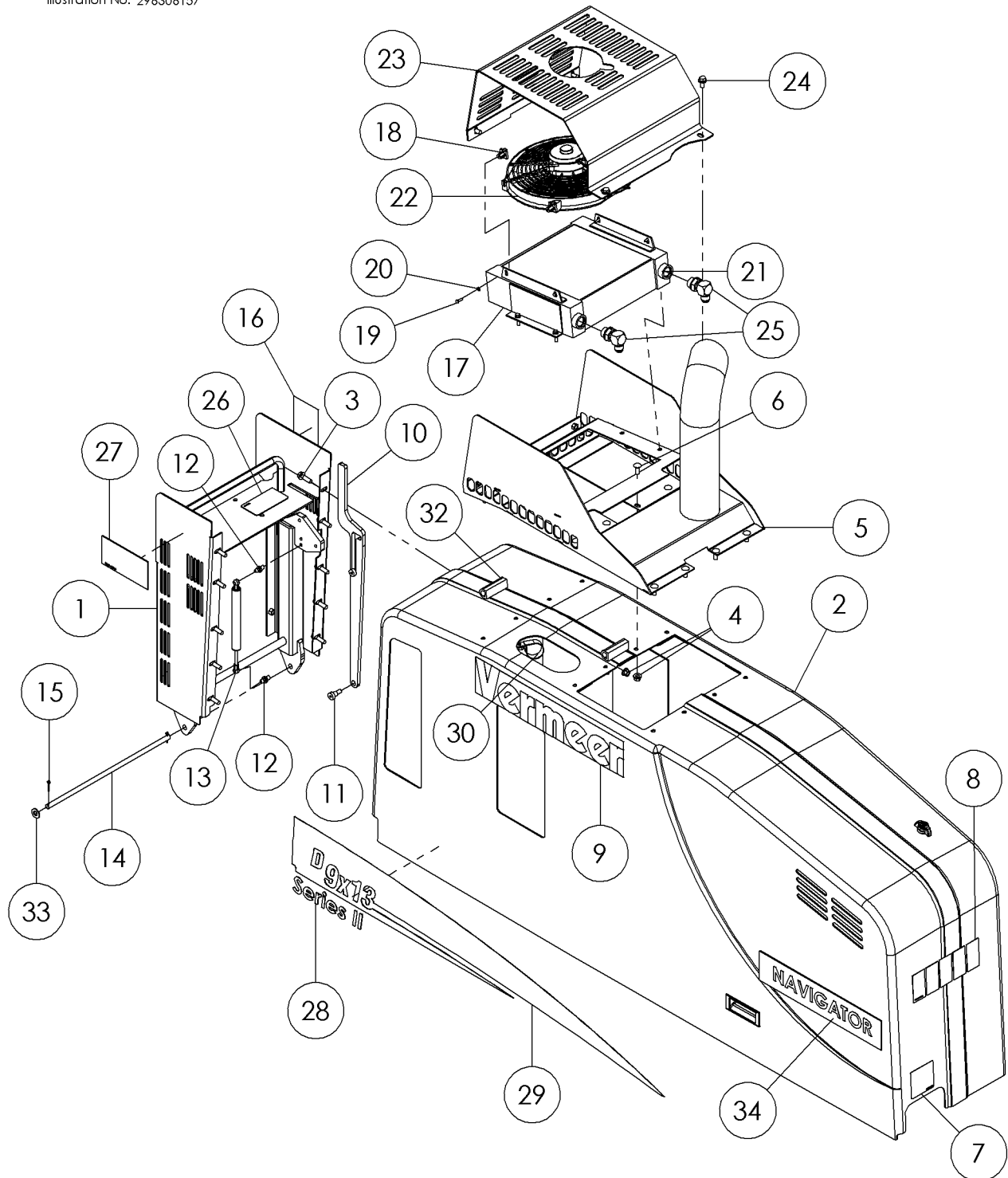


Hood (S/N 138, 142-143, 145-) Fig 4-6r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306151	FRAME - HOOD PIVOT	1	
2		296306205	*HOOD - D9 X 13II	1	(138, 142-143, 145-) Breakdown Fig. 4-6z01
3		296300773	SCREW-HFS-.38-16X1.25-GR8-YZ	10	
4		296300850	NUT-HEXFLGTL-.38-16-G-YZ	22	
5		296320505	WELDMENT - HOOD DOG HOUSE	1	
6		375010	BOLT-3/8"-16X1"GD#5 CARRIAGE	12	
7		7000B119	DECAL - PATENT INDUSTRIAL	1	Domestic/International
8		7000B812	DECAL - WARNING	1	Domestic
8		700IB812	DECAL - WARNING	1	International
9		2326595	DECAL VERMEER- 4 1/2 X 24	1	Domestic/International
10		296320523	SLIDE - HOOD LOCK/RELEASE	1	
11		240056001	SCREW-SHSS-.50X.50-.38-16THD-CZ	2	
12		285784001	BALL - STUD	2	
13		251144001	SPRING - GAS ASSIST	1	
14		296320555	ROD - HINGE	1	
15		510009	COTTER PIN-1/8" X 1"	2	
16		7000A627	DECAL-DANGER	1	Domestic
16		700IA627	DECAL-DANGER	1	International
17		296319087	COOLER - 3" OIL	1	
18		226971001	MOUNT-FAN(5MM) (SET OF 4)	4	
19		506030016	SCREW-HCS,M5-.80X16.8.8,YZ,D933,FT	4	
20		506046005	WASHER-FLAT,M5,YZ,D125A	4	
21		296300753	*SCREW-HFS-.25-20X.75-GR8-YZ	4	
22		241895001	FAN-12" SEALED ELECTRIC	1	
23		296320531	PLATE - TOP ACCESS TRIM	1	
24		296300771	SCREW-HFS-..38-16X.75GR8-YZ	4	
25		59409001	10M JICX12M ADJ. 90 DEG.ELBOW	2	
26		700IF057	DECAL - HOOD LATCH	1	Domestic/International
27		7000A576	DECAL-DANGER	1	Domestic
27		700IA576	DECAL-DANGER	1	International
28		7000C325	DECAL - SERIES II (10")	1	Domestic/International
29		7000F085	DECAL - 9 X 13II STRIPE	1	Domestic/International
30		204721001	HOSE CLAMP-CCV2913 1 3/4"	2	
31		82497001	FITTING-10M JIC	1	
32		288982001	SEAL - 1" X 1" HALF ROUND	2	
33		252253001	WASHER-1/2 SAE FLAT ZP	2	
34		7000A010	DECAL-MODEL NAVIGATOR(MEDIUM)	1	Domestic/International
35		163642892	*CAM-LATCH LOCKABLE WING KNOB	1	
36		296306077	*CAM - LOCK 12MM	1	

Hood (S/N 101-137) Fig 4-6

Illustration No. 296306157

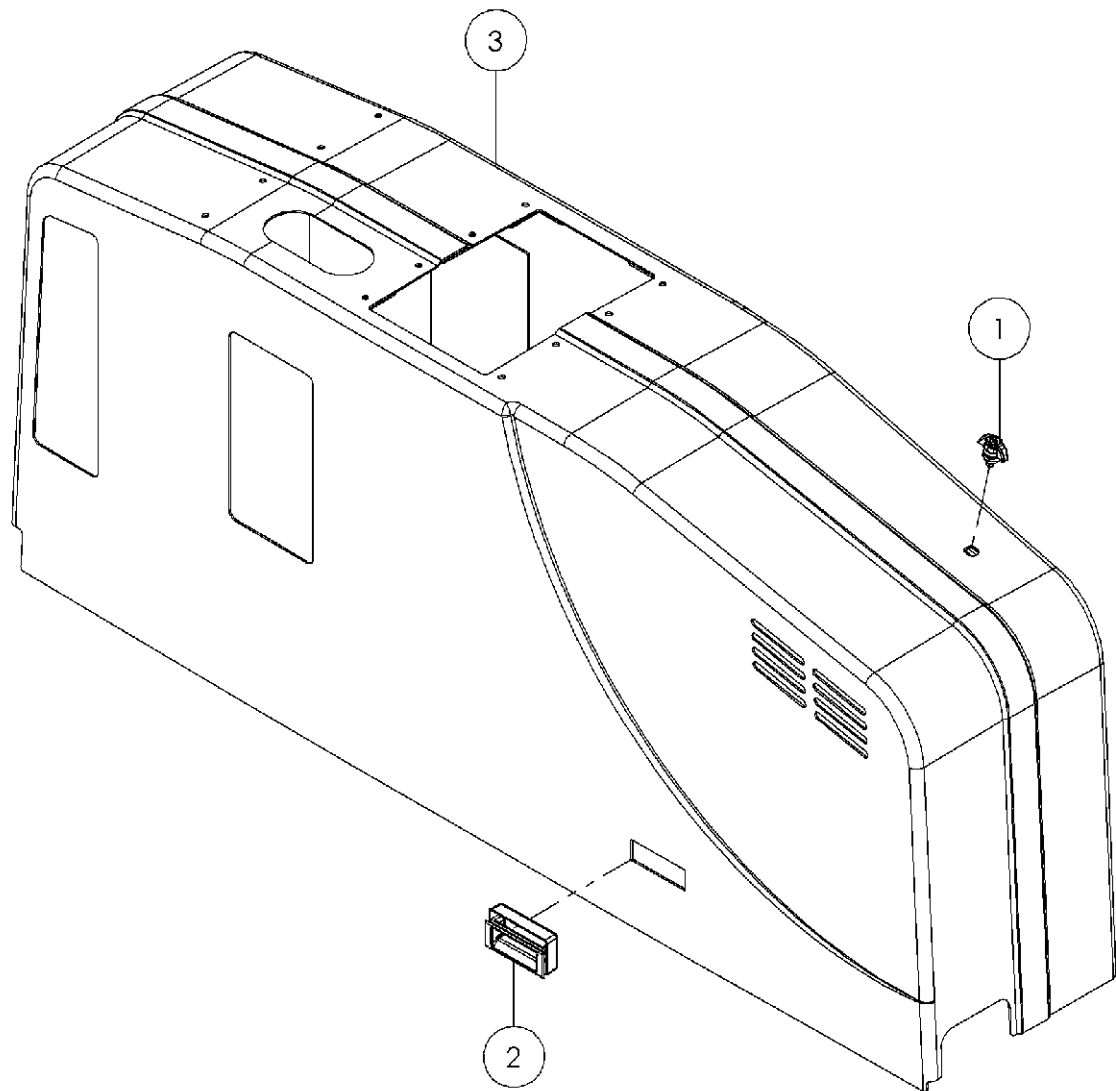


Hood (S/N 101-137) Fig 4-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306151	FRAME - HOOD PIVOT	1	
2		296306205	HOOD - D9 X 13II	1	Breakdown Figure 4-6z01
3		296300773	SCREW-HFS-.38-16X1.25-GR8-YZ	10	
4		296300850	NUT-HEXFLGTL-.38-16-G-YZ	22	
5		296320505	WELDMENT - HOOD DOG HOUSE	1	
6		375010	BOLT-3/8"-16X1"GD#5 CARRIAGE	12	
7		7000b119	DECAL - PATENT INDUSTRIAL	1	Domestic
8		7000b812	DECAL - WARNING	1	International
9		2326595	DECAL VERMEER- 4 1/2 X 24	1	Domestic/International
10		296320523	SLIDE - HOOD LOCK/RELEASE	1	
11		240056001	SCREW-SHSS-.50X.50-.38-16THD-CZ	2	
12		285784001	BALL - STUD	2	
13		251144001	SPRING - GAS ASSIST	1	
14		296320555	ROD - HINGE	1	
15		510009	COTTER PIN-1/8" X 1"	2	
16		7000a627	DECAL-DANGER	1	Domestic
16		700IA627	DECAL-DANGER	1	International
17		296319087	COOLER - 3" OIL	1	
18		226971001	MOUNT-FAN(5MM) (SET OF 4)	4	
19		506030016	SCREW-HCS,M5-.80X16,8.8,YZ,D933,FT	4	
20		506046005	WASHER-FLAT,M5,YZ,D125A	4	
21		296300754	SCREW-HFS-.25-20X1.00-GR8-YZ	4	
22		241895001	FAN-12" SEALED ELECTRIC	1	
23		296320531	PLATE - TOP ACCESS TRIM	1	
24		296300771	SCREW-HFS-..38-16X.75GR8-YZ	4	
25		59409001	10M JICX12M ADJ. 90 DEG.ELBOW	2	
26		700IF057	DECAL - HOOD LATCH	1	Domestic/International
27		7000a576	DECAL-DANGER	1	Domestic
27		700IA576	DECAL-DANGER	1	International
28		7000c325	DECAL - SERIES II (10")	1	Domestic/International
29		7000F085	DECAL - 9 X 13II STRIPE	1	Domestic/International
30		204721001	HOSE CLAMP-CCV2913 1 3/4"	2	
31		82497001	*FITTING-10M JIC	1	
32		288982001	*SEAL - 1" X 1" HALF ROUND	2	
33		252253001	*WASHER-1/2 SAE FLAT ZP	2	
34		7000a010	*DECAL-MODEL NAVIGATOR(MEDIUM)	1	Domestic/International

Components-Hood Fig 4-6z01

Illustration No. 296306205

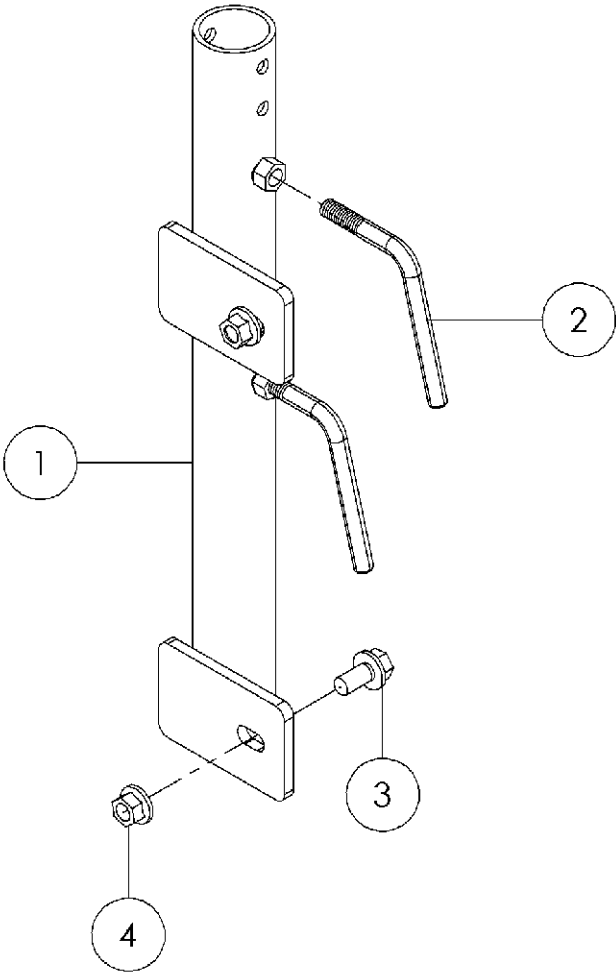


Components-Hood Fig 4-6z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306078	CAM - LOCK 14MM	1	
2		292053001	POCKET PULL	1	
3		296306205	HOOD - D9 X 13II	1	

Umbrella Mount Fig 4-7

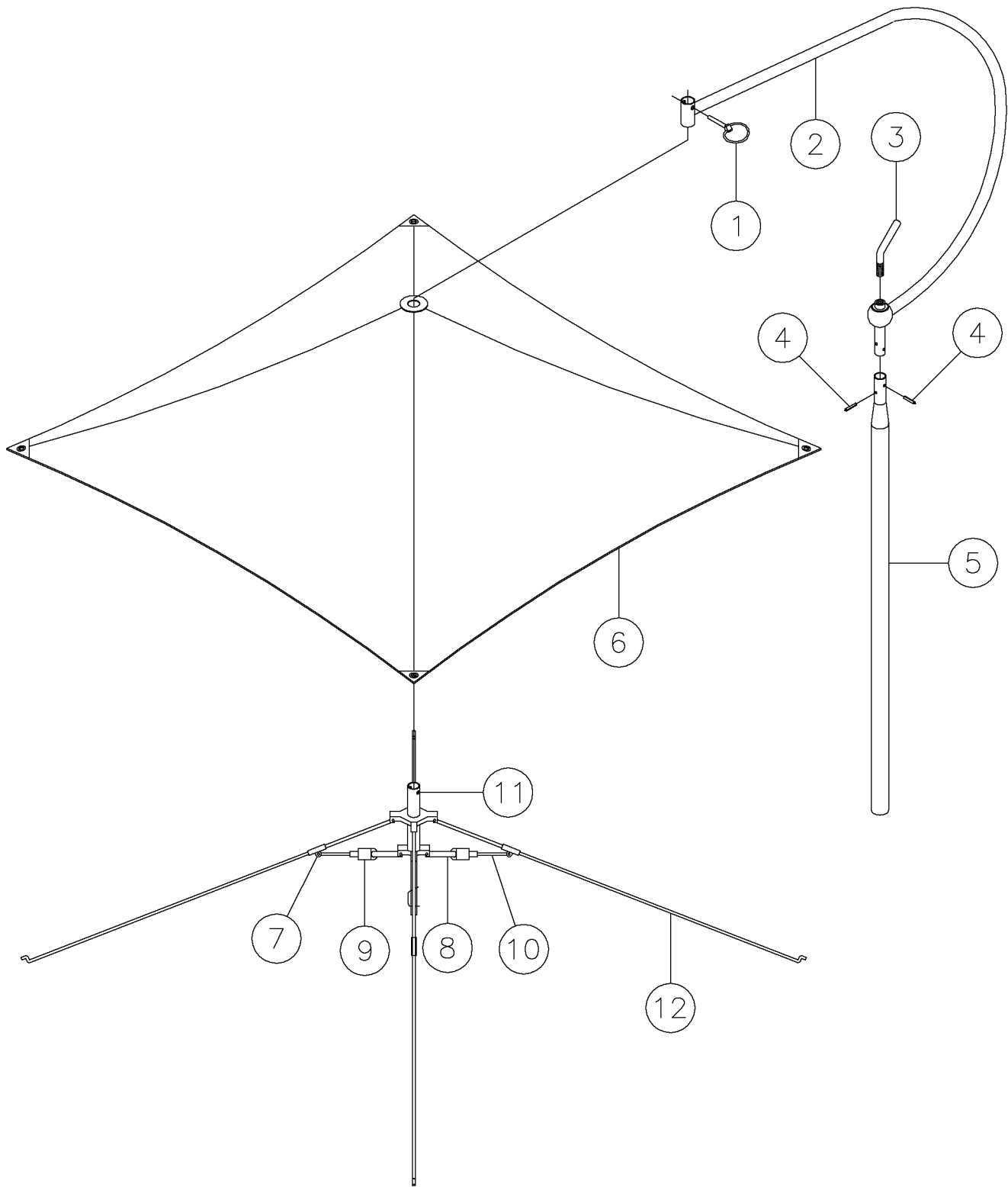
Illustration No. 296306223



Umbrella Mount Fig 4-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306225	MOUNT - UMBRELLA	1	
2		240038001	BOLT-TIGHTENING 3/8"	2	
3		296300771	SCREW-HFS-..38-16X.75GR8-YZ	2	
4		296300850	NUT-HEXFLGTL-.38-16-G-YZ	2	

Umbrella Fig 4-8



Umbrella Fig 4-8

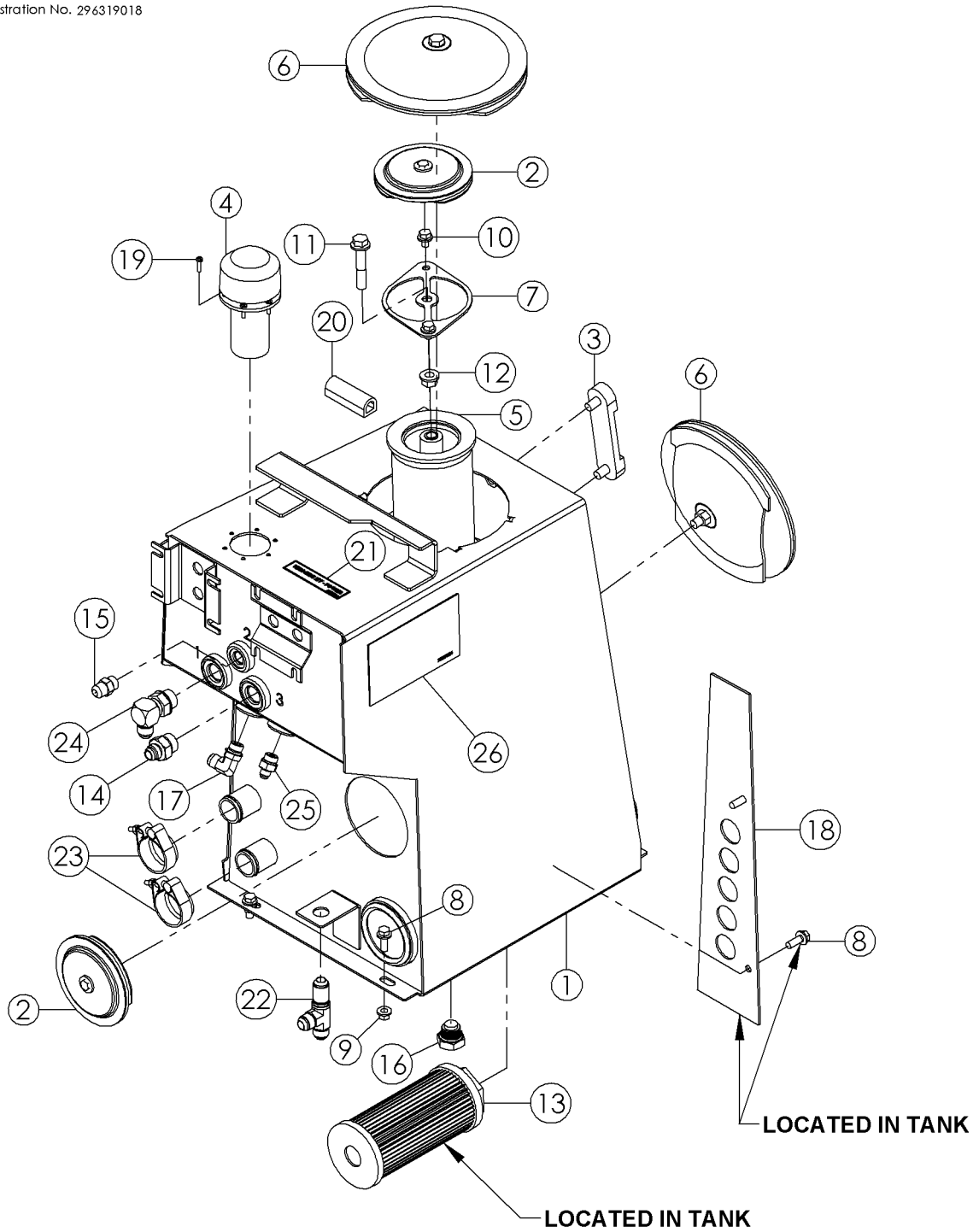
REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		1797003	PIN-QUICK ATTACHMENT LATCH 1/4"-XCX 6M DIA"	1	
2		238181003	CURVED SHAFT	1	
3		238181005	LOCKING HANDLE	1	
4		1978011	PIN ROLL 3/16 X 1 ZINC	2	
5		238181007	SUPPORT SHAFT-UMBRELLA	1	
6		240103001	SHEATH-UMBRELLA	1	
7			RIVET-PUSH PIN	12	Not Sold Separately
8			TUBE-PUSH ROD	4	Not Sold Separately
9			CLIP-PUSH ROD LOCKING SPRING	4	Not Sold Separately
10			PUSH ROD	4	Not Sold Separately
11			CENTER TUBE W/ SPIDERS	1	Not Sold Separately
12			BOW W/ CLEVIS	4	Not Sold Separately

Oil Tank (S/N 155-) Fig 5-1r02

PARENT NO: 296319018

D9x13II
ASSEMBLY - HYD TANK

Illustration No. 296319018

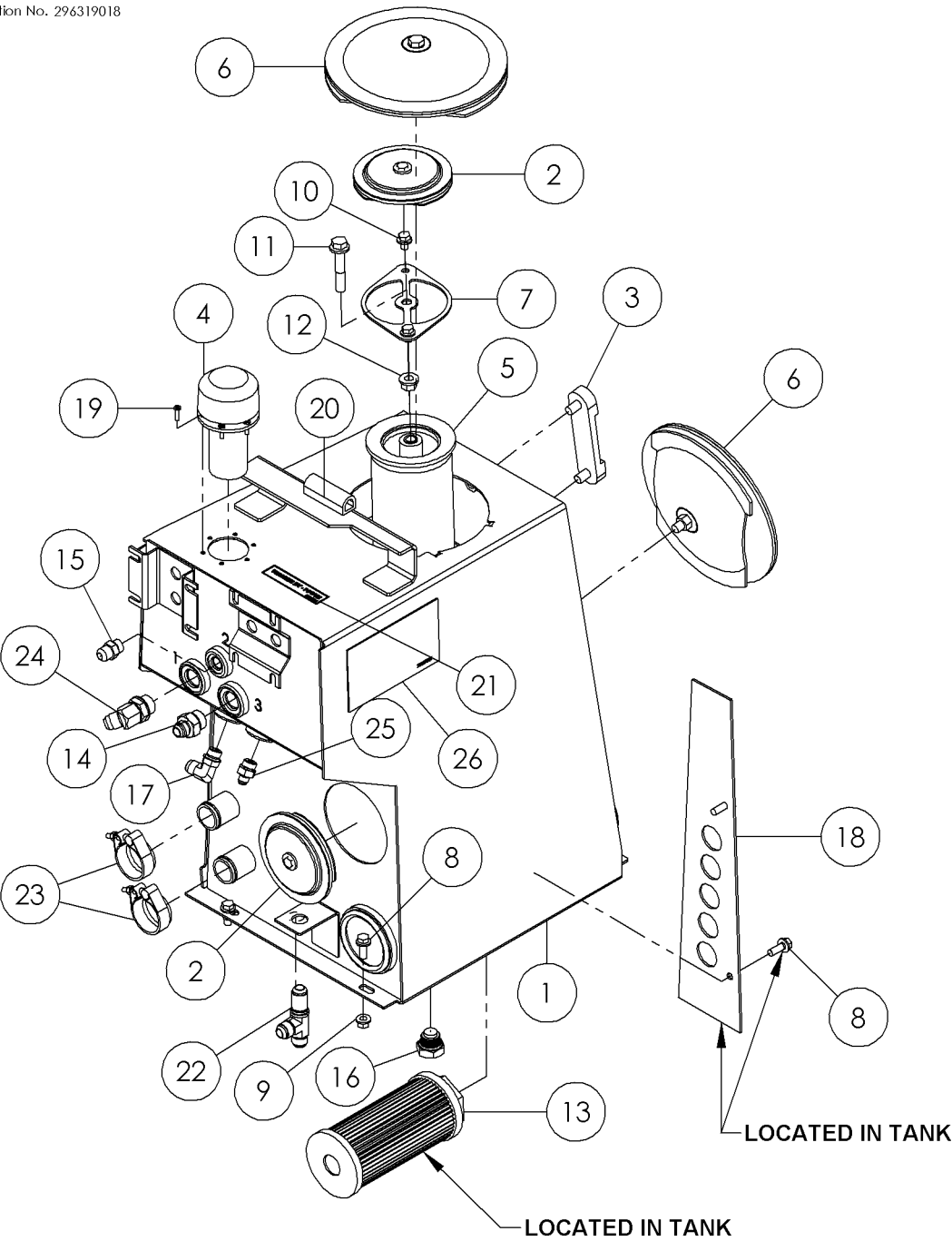


Oil Tank (S/N 155-) Fig 5-1r02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296319016	WELDMENT - HYD TANK	1	(155-)
2		296257231	COVER - 6" RESERVOIR END	2	Breakdown Fig 5-1z01
3		267758001	INDICATOR - FLUID LEVEL W/TEMP	1	
4		235808001	CAP-FILLER/BREATHING W/O RELIEF	1	
5		624362001	FILTER ASSEMBLY-HYDRAULIC	1	
6		296292015	COVER 10" OIL TANK	2	Breakdown Fig 5-1z02
7		296293751	PLATE - FILTER HOLD DOWN	1	
8		296300772	SCREW-HFS-.38-16X1.00-GR8-YZ	6	
9		296300850	NUT-HEXFLGTL-.38-16-G-YZ	4	
10		296300922	SCREW-HFS-.38-16X50-GR8-YZ	2	
11		296300795	SCREW-HFS-.50-13X2.75-GR8-YZ	1	
12		296300851	NUT-HEXFLGTL-.50-13-G-YZ	1	
13		296294231	STRAINER - SUCTION 2" FNPT	1	
14		53854001	12M O-RING-10M JIC ST.	1	
15		296278689	VALVE-85PSI PSI INLINE CK FITTING-ST-8MJ	1	
16		613818001	PLUG - 12M ORING HEX MAGNETIC	1	
17		53837001	FITTING - 8M O-RING X 8M JIC 90 DEGREE	1	
18		296308188	BAFFLE - HYD TANK D9X13	1	
19		1802006	BOLT-10-24 X 3/4 RND HD STOVE	6	
20		288982001	SEAL - 1" X 1" HALF ROUND	1	
21		70000394	DECAL-VERMEER HY POWER	1	Domestic/International
22		119487001	FITTING-#10 BULKHEAD RUN TEE	1	
23		287520001	CLAMP - 2.13 OD BAND TBC213	2	
24		59409001	*10M JICX12M ADJ. 90 DEG. ELBOW	1	
25		60247001	FITTING - 8M O-RING X 6M JIC ST.	1	
26		700IF226	DECAL - GREASE CHART, D9X13II	1	Domestic/International

Oil Tank (S/N 155-) Fig 5-1r01

Illustration No. 296319018

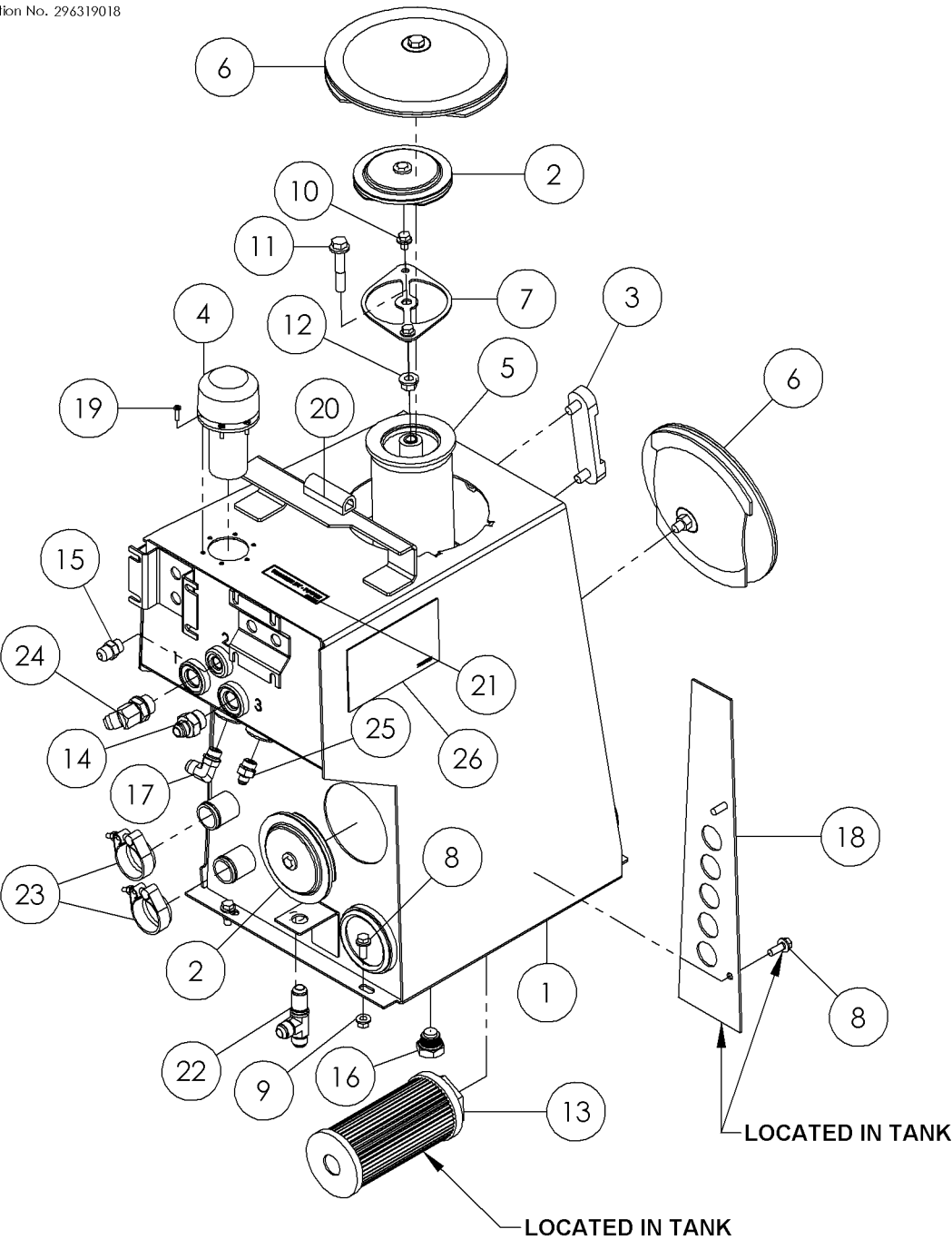


Oil Tank (S/N 155-) Fig 5-1r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296319016	WELDMNT - HYD TANK	1	(155-)
2		296257231	COVER - 6" RESERVOIR END	2	Breakdown Fig. 5-1z01
3		267758001	INDICATOR-FLUID LEVEL W/TEMP	1	
4		235808001	CAP-FILLER/BREATHING W/O RELIEF	1	
5		624362001	FILTER ASSY. HYDRAULIC	1	
6		296292015	COVER - 10" OIL TANK	2	Breakdown Fig. 5-1z02
7		296293751	PLATE - FILTER HOLD DOWN	1	
8		296300772	SCREW-HFS-.38-16x1.00-GR8-YZ	6	
9		296300850	NUT-HEXFLGTL-.38-16-G-YZ	4	
10		296300922	SCREW-HFS-.38-16x.50-GR8-YZ	2	
11		296300795	SCREW-HFS-.50-13x2.75-GR8-YZ	1	
12		296300851	NUT-HEXFLGTL-.50-13-G-YZ	1	
13		296294231	STRAINER - SUCTION 2" FNPT	1	
14		53854001	FITTING-STR-10MJ-12MORB	1	
15		296278689	VALVE-85 PSI INLINE CHECK	1	
16		613818001	PLUG - 12M ORING HEX MAGNETIC	1	
17		53837001	FITTING-90-8MJ-8MORBA	1	
18		296308188	BAFFLE - HYD TANK	1	
19		1802006	BOLT-10-24 X 3/4 RND HD STOVE	6	
20		288982001	SEAL-1.0X1.0 HALF ROUND	1	
21		70000394	DECAL-VERMEER HY POWER	1	Domestic/International
22		119487001	FITTING-#10 BULKHEAD RUN TEE	1	
23		287520001	CLAMP - 2.13 OD BAND TBC213	2	
24		88659001	FITTING - 12MB - 10MJ 90	1	
25		60247001	FITTING-STR-6MJ-8MORB	1	
26		700IF226	DECAL - GREASE CHART D9X13II	1	Domestic/International

Oil Tank (S/N 101-154) Fig 5-1

Illustration No. 296319018

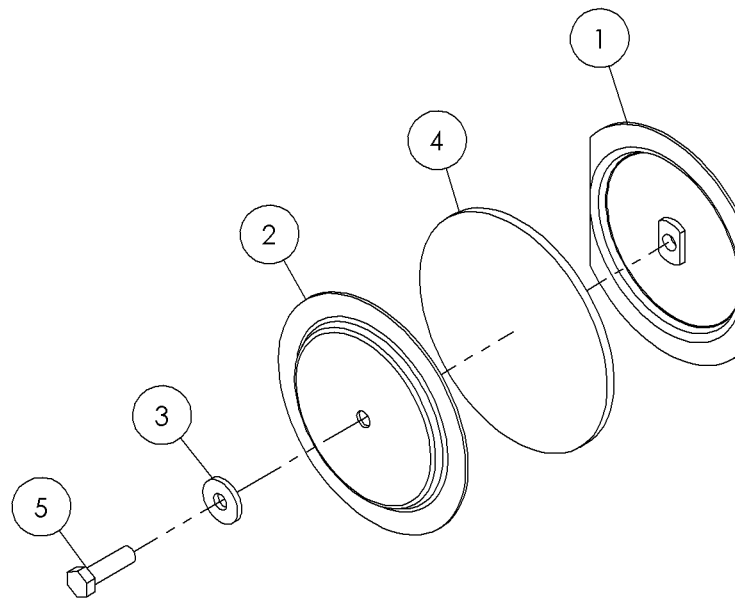


Oil Tank (S/N 101-154) Fig 5-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296319016	*WELDMENT - HYD TANK	1	
2		296257231	COVER - 6" RESERVOIR END	2	Breakdown Fig. 5-1z01
3		267758001	INDICATOR - FLUID LEVEL W/TEMP	1	
4		235808001	CAP-FILLER/BREATHING W/O RELIEF	1	
5		624362001	FILTER ASSEMBLY-HYDRAULIC	1	
6		296292015	COVER 10" OIL TANK	2	Breakdown Fig. 5-1z02
7		296293751	PLATE - FILTER HOLD DOWN	1	
8		296300772	SCREW-HFS-.38-16X1.00-GR8-YZ	6	
9		296300850	NUT-HEXFLGTL-.38-16-G-YZ	4	
10		296300922	SCREW-HFS-.38-16X50-GR8-YZ	2	
11		296300795	SCREW-HFS-.50-13X2.75-GR8-YZ	1	
12		296300851	NUT-HEXFLGTL-.50-13-G-YZ	1	
13		296294231	STRAINER - SUCTION 2" FNPT	1	
14		53854001	12M O-RING-10M JIC ST.	1	
15		296278689	VALVE-85PSI PSI INLINE CK FITTING-ST-8MJ	1	
16		613818001	PLUG - 12M ORING HEX MAGNETIC	1	
17		53837001	FITTING - 8M O-RING X 8M JIC 90 DEGREE	1	
18		296308188	BAFFLE - HYD TANK D9X13	1	
19		1802006	BOLT-10-24 X 3/4 RND HD STOVE	6	
20		288982001	SEAL - 1" X 1" HALF ROUND	1	
21		70000394	DECAL-VERMEER HY POWER	1	Domestic/International
22		119487001	FITTING-#10 BULKHEAD RUN TEE	1	
23		287520001	CLAMP - 2.13 OD BAND TBC213	2	
24		88659001	FITTING-12M ORINGX10MJIC 45DEG	1	
25		60247001	FITTING - 8M O-RING X 6M JIC ST.	1	
26		700IF226	DECAL - GREASE CHART, D9X13II	1	Domestic/International

Oil Tank-Cover 6" Fig 5-1z01

Illustration No. 296257231-1

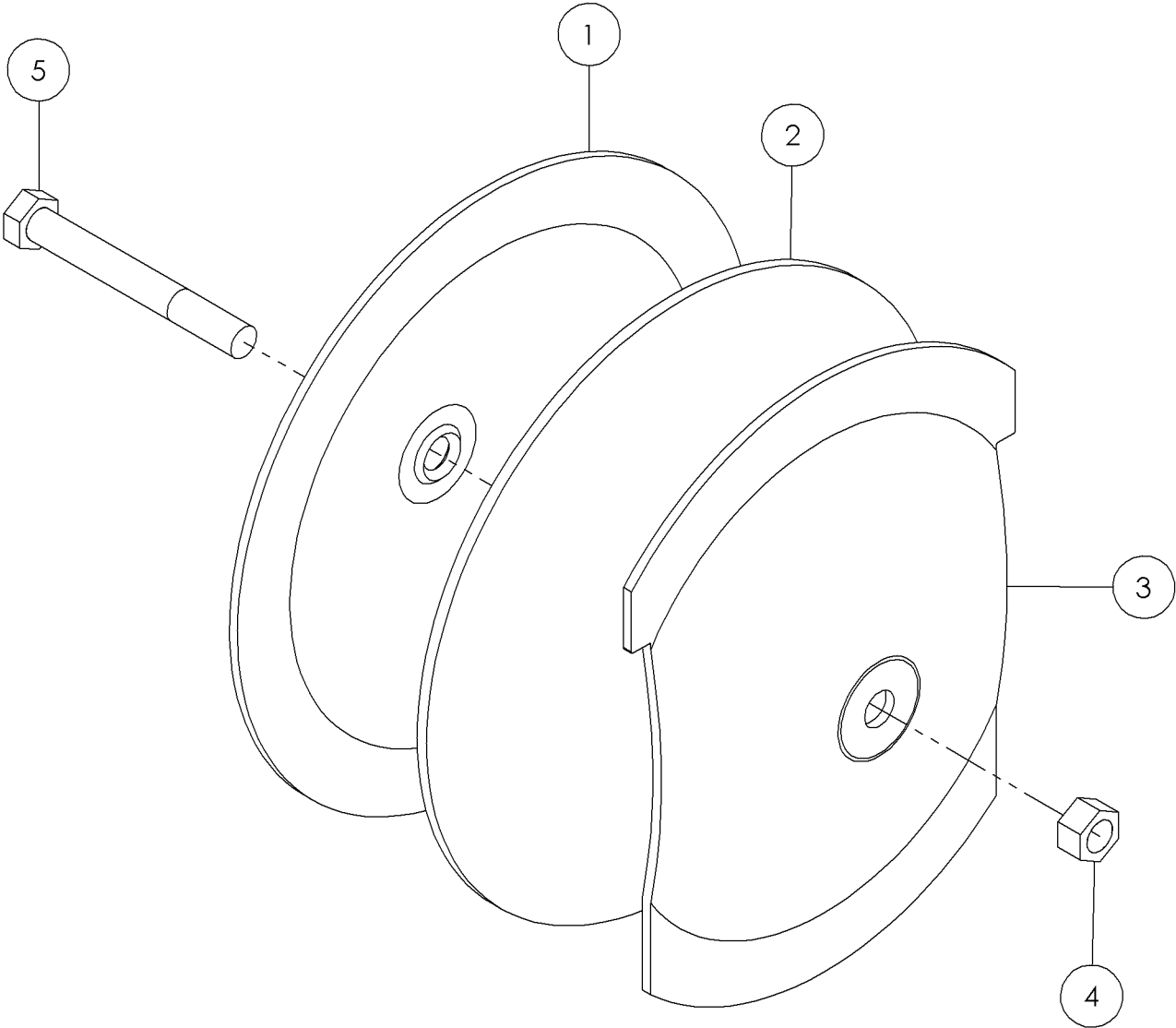


Oil Tank-Cover 6" Fig 5-1z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296332273	6" CLEAN - OUT COVER BACK COVER WITH 3/8-16NC NUT	1	
2		296332275	6" CLEAN - OUT COVER FRONT COVER	1	
3		296332276	6" CLEAN - OUT COVER NYLON WASHER	1	
4		296332274	6" CLEAN - OUT COVER BUNA - N GASKET	1	
5		296332277	6" CLEAN - OUT COVER 3/8 - 16 BOLT	1	

Oil Tank-Cover 10" Fig 5-1z02

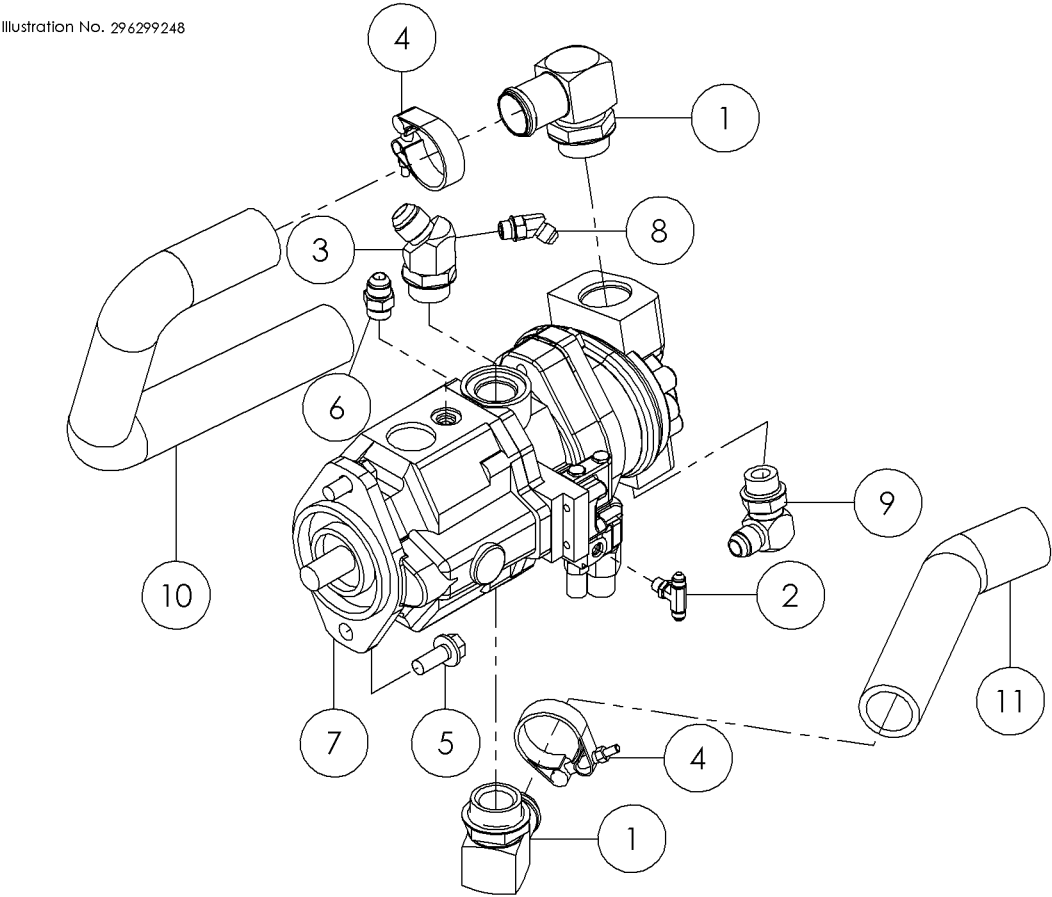
Illustration No. 296292015



Oil Tank-Cover 10" Fig 5-1z02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296292052	10" INNER COVER	1	
2		296292053	MOLDED BUNA N GASKET	1	
3		296292054	10" OUTER COVER	1	
4		235731001	NUT-1/2-13 GR8 ZYC	1	
5		238244001	BOLT 1/2"-13 X 4"GR8 HEX Y/ZIN	1	

Tandem Pump Fig 5-2

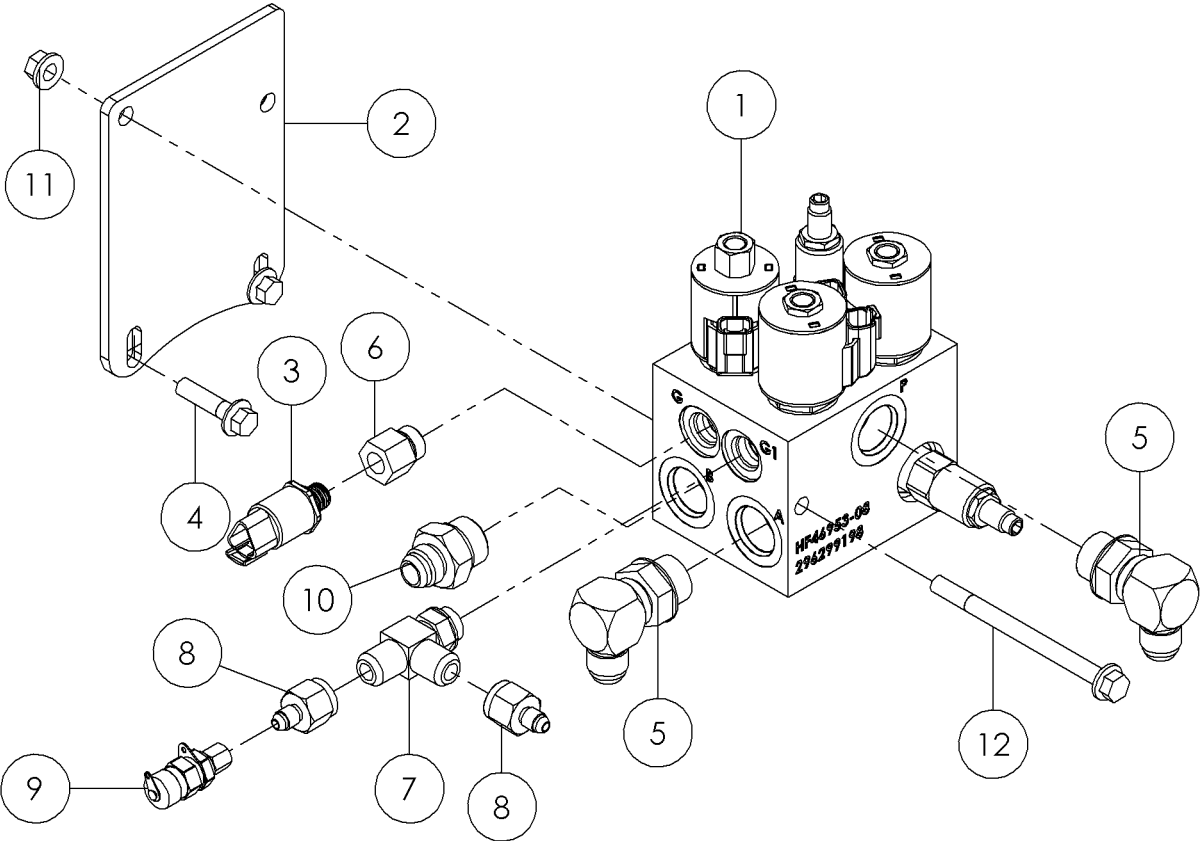


Tandem Pump Fig 5-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		904821001	INSERT-20M X 1 1/2"-90 HOSE	2	
2		81343001	4M (BCH)X4M JICX4M JIC TEE	1	
3		296296071	FITTING-45-16MORBA-12MJ-6MORB	1	
4		287520001	CLAMP - 2.13 OD BAND TBC213	2	
5		296300789	SCREW-HFS-.50-13X1.25-GR8-YZ	2	
6		53824001	FITTING-#8M O-RING-#8M JIC ST.	1	
7		296319038	PUMP - HYD TANDEM	1	
8		65563001	FITTING - 6M O-RING X 6M JIC 45 DEGREE	1	
9		59409001	*10M JICX12M ADJ. 90 DEG.ELBOW	1	
10		296320855	*HOSE -SUCTION-24X22-100PSI	1	
11		296270758	*HOSE - 1 1/2" X 11.50" SUCTION	1	

Rotation Diverter Valve Fig 5-3

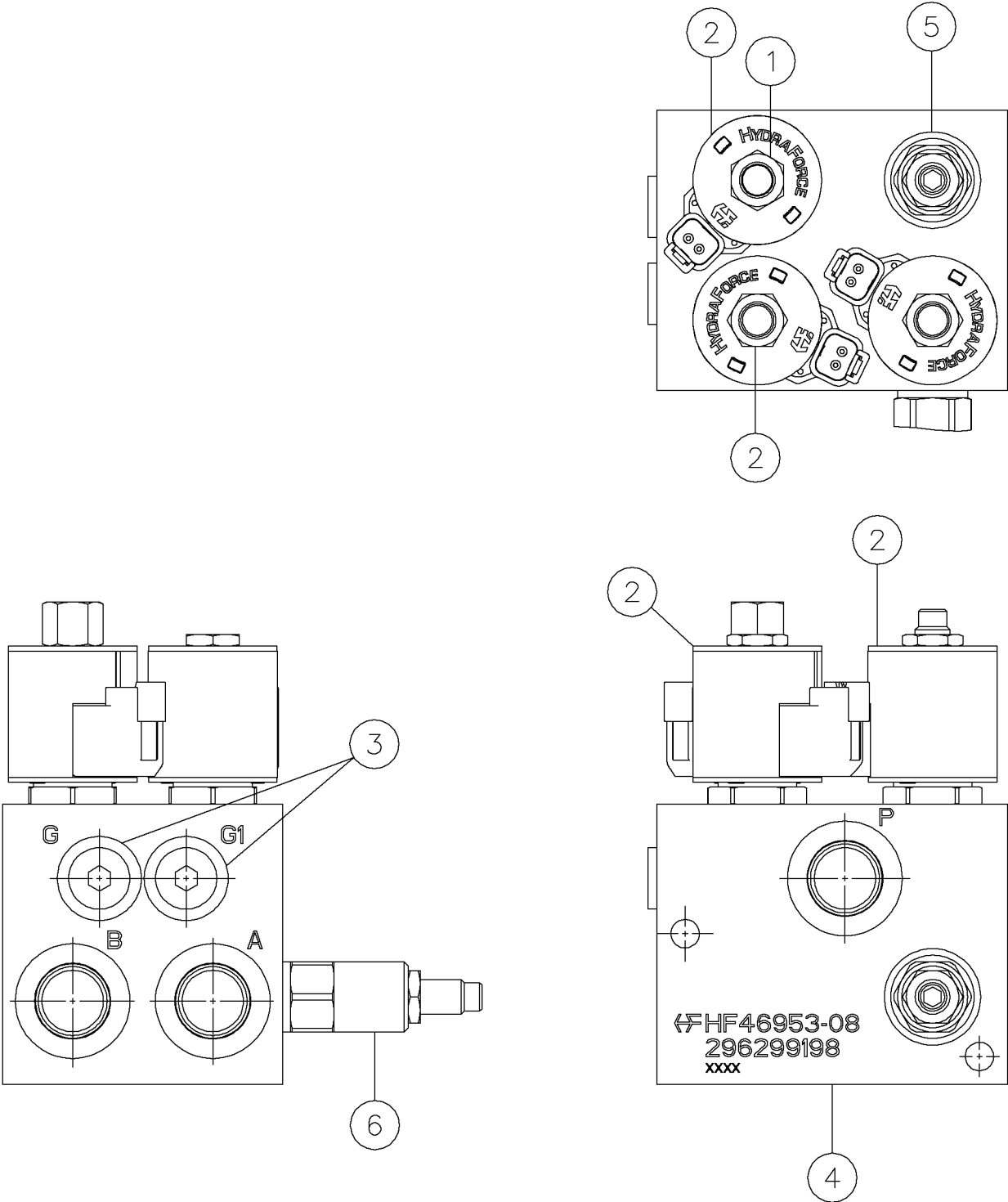
Illustration No. 296308129



Rotation Diverter Valve Fig 5-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296299198	VALVE - DIVERTER	1	Breadown Figure 5-3z01
2		296319029	PLATE - VALVE MOUNT	1	
3		296276082	TRANSDUCER 6000 PSI HYDAC	1	
4		296300940	SCREW-HFS-M10-1.25X40-10.9-YZ	2	
5		59409001	10M JICX12M ADJ. 90 DEG.ELBOW	2	
6		57951001	8M X 6F ST. ADAPTER	1	
7		81705001	FITTING-8MX8M JIC(RUN)X8M JIC	1	
8		54385001	FITTING-8F JICX4MJIC REDUCER	2	
9		83015001	FITTING-4F JIC DIAGNOSTIC	1	
10		53854001	*12M O-RING-10M JIC ST.	1	
11		296300850	*NUT-HEXFLGTL-.38-16-G-YZ	2	
12		296300917	*SCREW-HFS-.38-16X5.00-GR8-YZ	2	

Components-Rotation Diverter Valve Fig 5-3z01

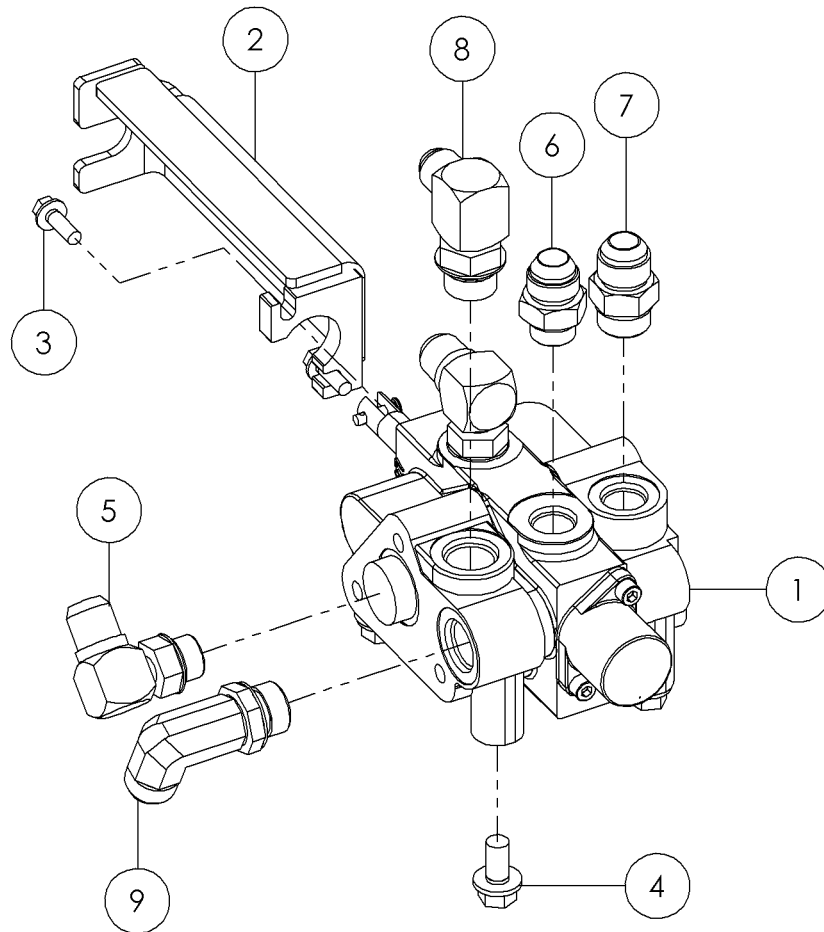


Components-Rotation Diverter Valve Fig 5-3z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		279359004	POPPET - 2-WAY NORMALLY OPEN	1	
1		282520008	SEAL KIT	1	
2		296271077	COILS	1	
3		236494005	PLUG-SAE	2	
4			BLOCK	1	Not Sold Separately
5		296332496	RELIEF VALVE	1	
5		500659019	SEAL KIT-SOLENOID,SPOOL,2-WAY	1	
6		296332495	RELIEF VALVE	1	
6		500659019	SEAL KIT-SOLENOID,SPOOL,2-WAY	1	
		296299198	VALVE - DIVERTER		Include All Items In Figure

Rotation Valve Fig 5-4

Illustration No. 296308130

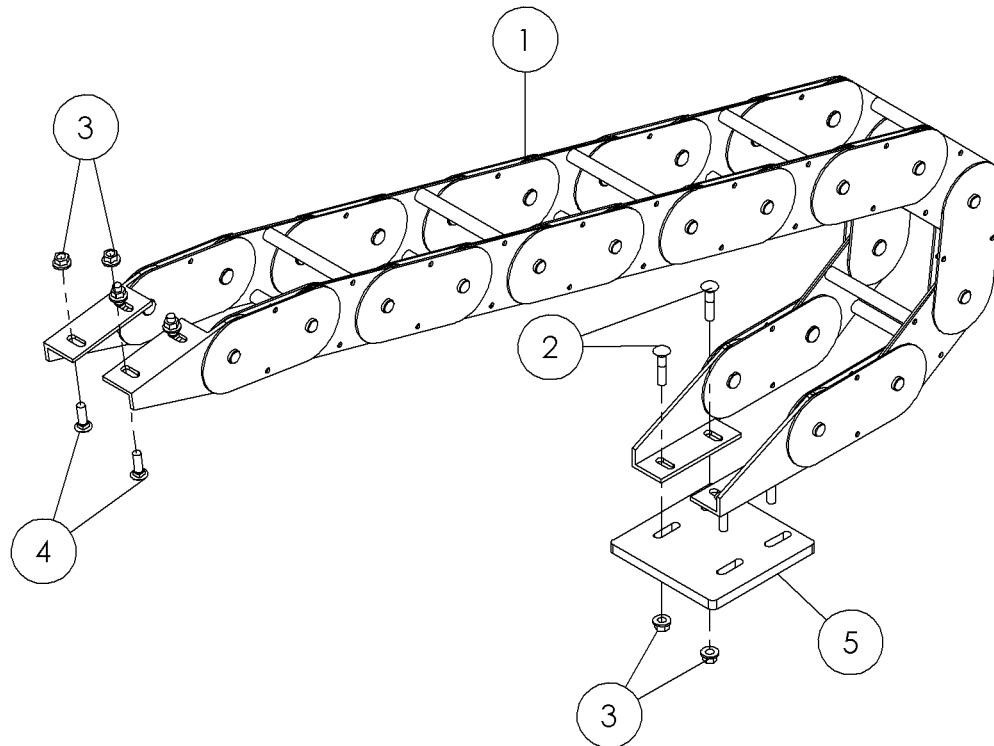


Rotation Valve Fig 5-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296319010	VALVE - ROTATION	1	
2		296319063	WELDMENT - CABLE MOUNT	1	
3		296300753	SCREW-HFS-.25-20X.75-GR8-YZ	2	
4		296300771	SCREW-HFS-..38-16X.75GR8-YZ	3	
5		53823001	#8M O-RING-#10M JIC 90 DEG.	2	
6		67850001	8M X 10MJIC STR	1	
7		53827001	FITT.-#10M O-RING-#10M JIC ST.	1	
8		59407001	*8M JICX10M ADJ. 90 DEG.ELBOW	1	
9		122630001	FITTING-10M ORINGX10M JIC 90	1	

Hose Carrier Fig 5-5

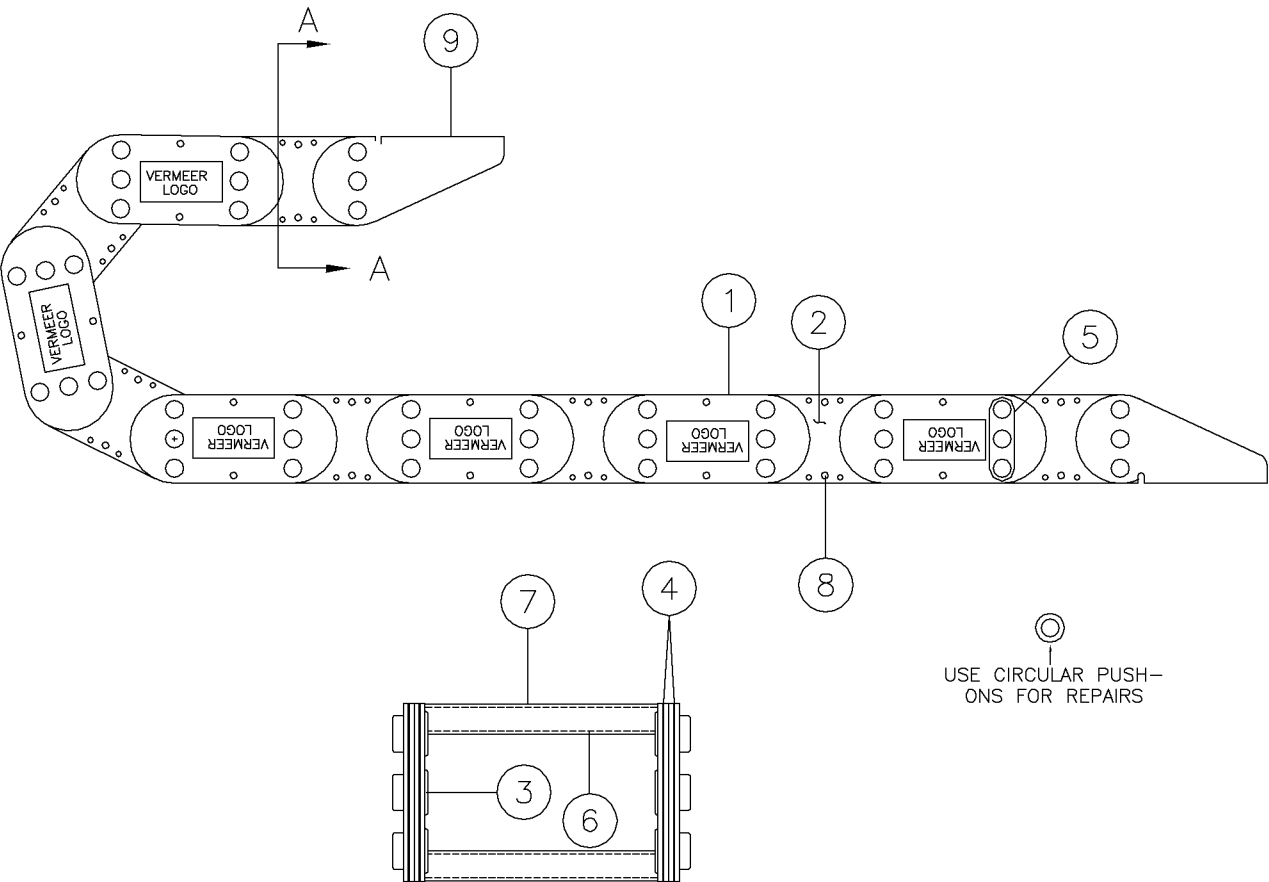
Illustration No. 296319050



Hose Carrier Fig 5-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296276631	HOSE CARRIER	1	Breakdown Fig. 5-5z01
2		510308116	BOLT-CARG-.38-16X1.75-GR5-YZ	4	
3		296300850	NUT-HEXFLGTL-.38-16-G-YZ	8	
4		510308112	BOLT-CARG-.38-16X1.25-GR5-YZ	4	
5		296320702	*PLATE - HOSE CARRIER SPACER	1	

Components-Hose Carrier Fig 5-5z01

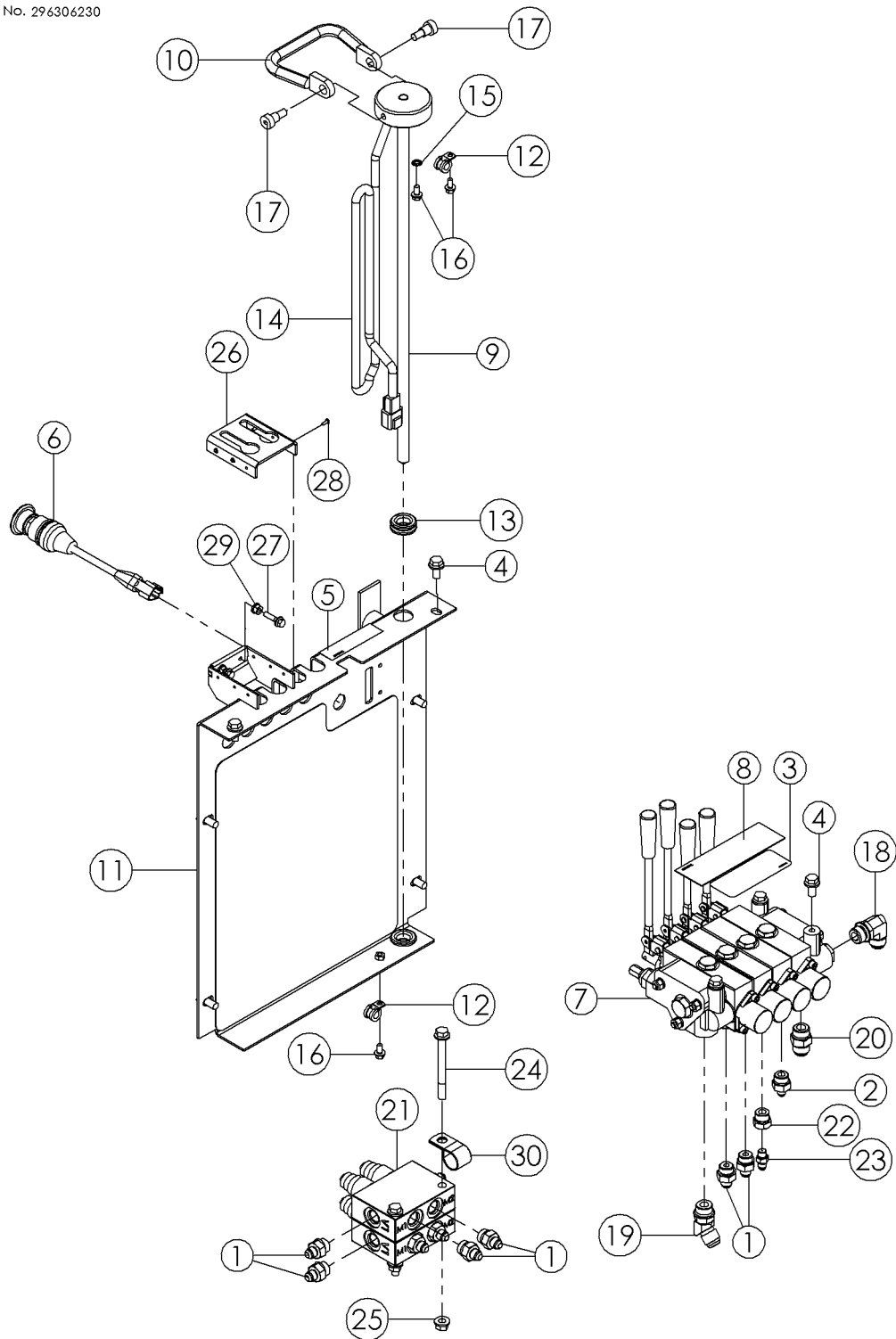


Components-Hose Carrier Fig 5-5z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		234256007	PT45E OUTER LINK W/VERMEERLOGO	24	
2		225192003	PT45E INNER LINK 5.709R	28	
3		234256017	PT45E HINGE PIN-PUSH ON FASTNR	72	
4		234256011	PT45E ANTI-FRICTION DISC	52	
5		296251021	PT45E ONE-PIECE PUSH ON	24	
6		225192005	PT35E/45E CARRIER ROD(5.100)	14	
7		225192007	PT35E/45E NYLON SLEEVE(4.900)	14	
8		234256019	BOLT-WHIZ LOCK .250-20 X .620	28	
9		234256003	PT45E MOUNTING BRACKET ASSY (L	2	
9		234256005	PT45E MOUNTING BRACKET ASSY(R)	2	

Rear Transport Valve (SN 155-) Fig 5-6r01

Illustration No. 296306230

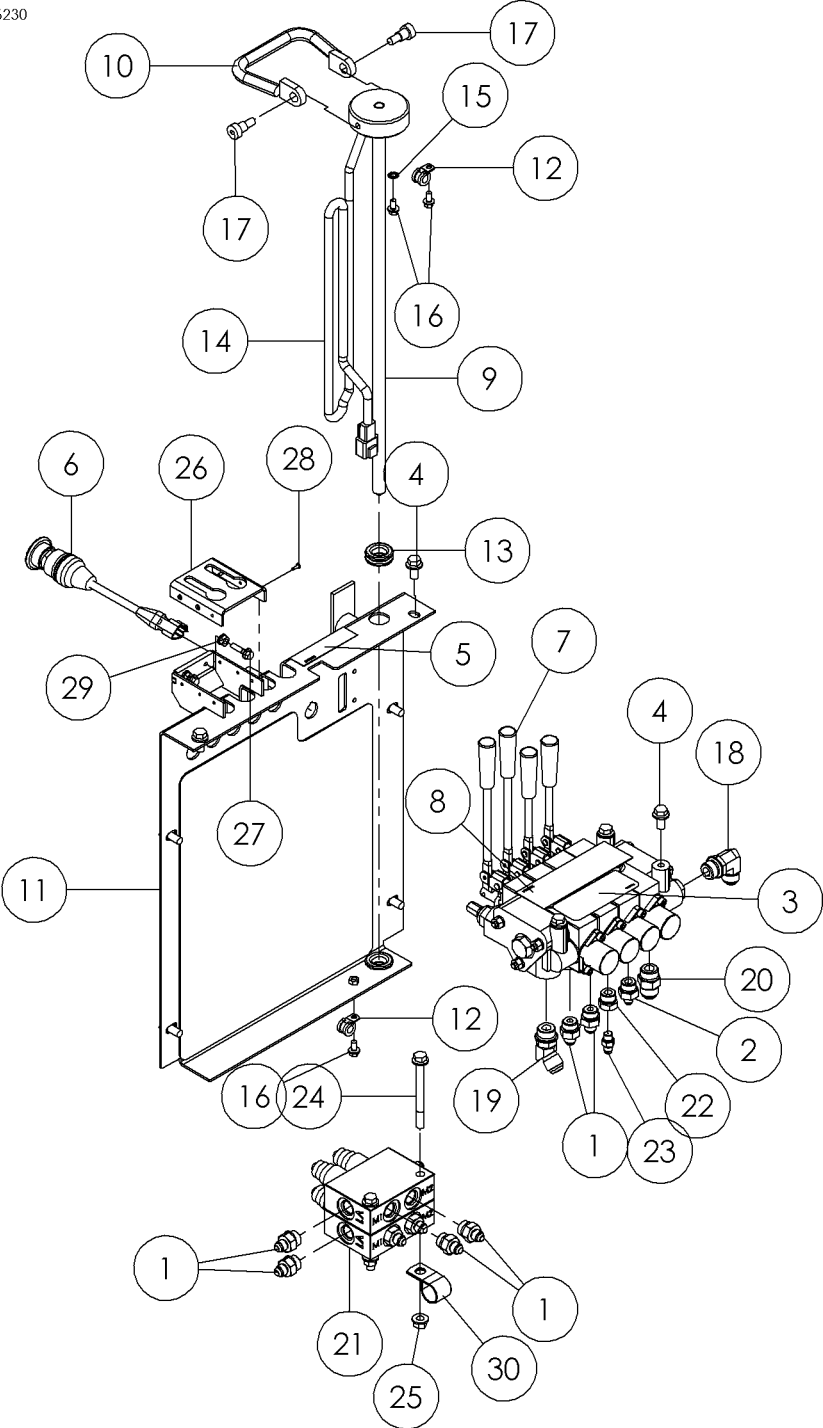


Rear Transport Valve (SN 155-) Fig 5-6r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		60247001	FITTING - 8M O-RING X 6M JIC ST.	12	
2		53657001	FITTING-8M OR X 4M JIC ST.	3	
3		7000C339	DECAL - PARKING	1	
4		296300771	SCREW-HFS-..38-16X.75GR8-YZ	9	
5		700IB807	DECAL - E-STOP	1	
6		163628359	E-STOP - HEAVY DUTY	1	
7		296320722	VALVE-4 SECTION HYD W/ CB DRAIN	1	Breakdown Fig. 5-6z02
8		700IE054	DECAL - CONTROL, REAR TRANSPORT	1	
9		296275119	STAKE-VOLTAGE	1	Breakdown Fig. 5-6z01
10		234164001	HANDLE-VOLTAGE STAKE	1	
11		296320913	WELDMENT - REAR SHIELD	1	
12		296275118	CLAMP - #8	2	
13		1865043	GROMMET-.75IDX1.38OD-.19GROOVE	2	
14		296275117	HARNESS-VOLTAGE STAKE	1	
15		481013	WASHER-1/4 EST. STAR	2	
16		296300751	SCREW HFS-.25-20X50GR8-Y2	4	
17		240056001	SCREW-SHSS-.50X.50-.38-16THD-CZ	2	
18		53829001	#10M O-RING-#10M JIC 90 DEG.	1	
19		56725001	FITTING-10MX10M JIC 45 DEG.	1	
20		53827001	FITT.-#10M O-RING-#10M JIC ST.	1	
21		296320723	VALVE-COUNTERBALANCE 2000PSI	2	Breakdown Fig. 5-6z03
22		98125001	FITTING - STR - 8MORB - 4FORB	1	
23		236488001	FITTING-4MOR X 4 MJIC R.047	1	
24		296300941	SCREW-HFS-.38-16X4.00 GR8 YZ	2	
25		296300850	NUT-HEXFLGTL-.38-16-G-YZ	2	
26		296320619	PLATE - SPEED LIMITER TOP	1	
27		296300754	SCREW-HFS-.25-20X1.00-GR8-YZ	2	
28		547001	POP RIVET-SS44D	4	
29		296300848	NUT-HEXFLGTL-.25-20-G-YZ	2	
30		296280669	CLAMP-1-1/4 HOSE-17/32 HOLE	1	

Rear Transport Valve (SN 101-154) Fig 5-6

Illustration No. 296306230

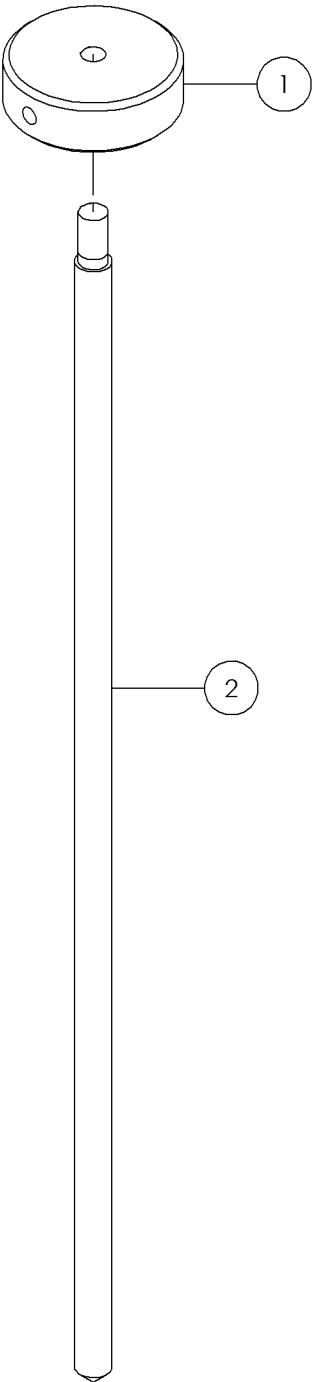


Rear Transport Valve (SN 101-154) Fig 5-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		60247001	FITTING - 8M O-RING X 6M JIC ST.	12	
2		53657001	FITTING-8M OR X 4M JIC ST.	3	
3		7000c339	DECAL - PARKING	1	Domestic/International
4		296300771	SCREW-HFS-..38-16X.75GR8-YZ	9	
5		700ib807	DECAL - E-STOP	1	
6		163628359	E-STOP - HEAVY DUTY	1	Domestic/International
7		296320550	VALVE - 4 SECTION HYD	1	
8		700IE054	DECAL - CONTROL, REAR TRANSPORT	1	
9		296275119	STAKE-VOLTAGE	1	Breakdown Fig. 5-6z01
10		234164001	HANDLE-VOLTAGE STAKE	1	
11		296320913	WELDMENT - REAR SHIELD	1	
12		296275118	CLAMP - #8	2	
13		1865043	GROMMET-.75IDX1.38OD-.19GROOVE	2	
14		296275117	HARNESS-VOLTAGE STAKE	1	
15		481013	WASHER-1/4 EST. STAR	2	
16		296300751	SCREW HFS-.25-20X50GR8-Y2	4	
17		240056001	SCREW-SHSS-.50X.50-.38-16THD-CZ	2	
18		53829001	#10M O-RING-#10M JIC 90 DEG.	1	
19		56725001	FITTING-10MX10M JIC 45 DEG.	1	
20		53827001	FITT.-#10M O-RING-#10M JIC ST.	1	
21		296320915	VALVE - CONTERBALANCE	2	
22		98125001	FITTING - STR - 8MORB - 4FORB	1	
23		236488001	FITTING-4MOR X 4 MJIC R.047	1	
24		296300941	SCREW-HFS-.38-16X4.00 GR8 YZ	2	
25		296300850	NUT-HEXFLGTL-.38-16-G-YZ	2	
26		296320619	PLATE - SPEED LIMITER TOP	1	
27		296300754	SCREW-HFS-.25-20X1.00-GR8-YZ	2	
28		547001	POP RIVET-SS44D	4	
29		296300848	NUT-HEXFLGTL-.25-20-G-YZ	2	
30		296280669	CLAMP-1-1/4 HOSE-17/32 HOLE	1	

Components-Voltage Stake Fig 5-6z01

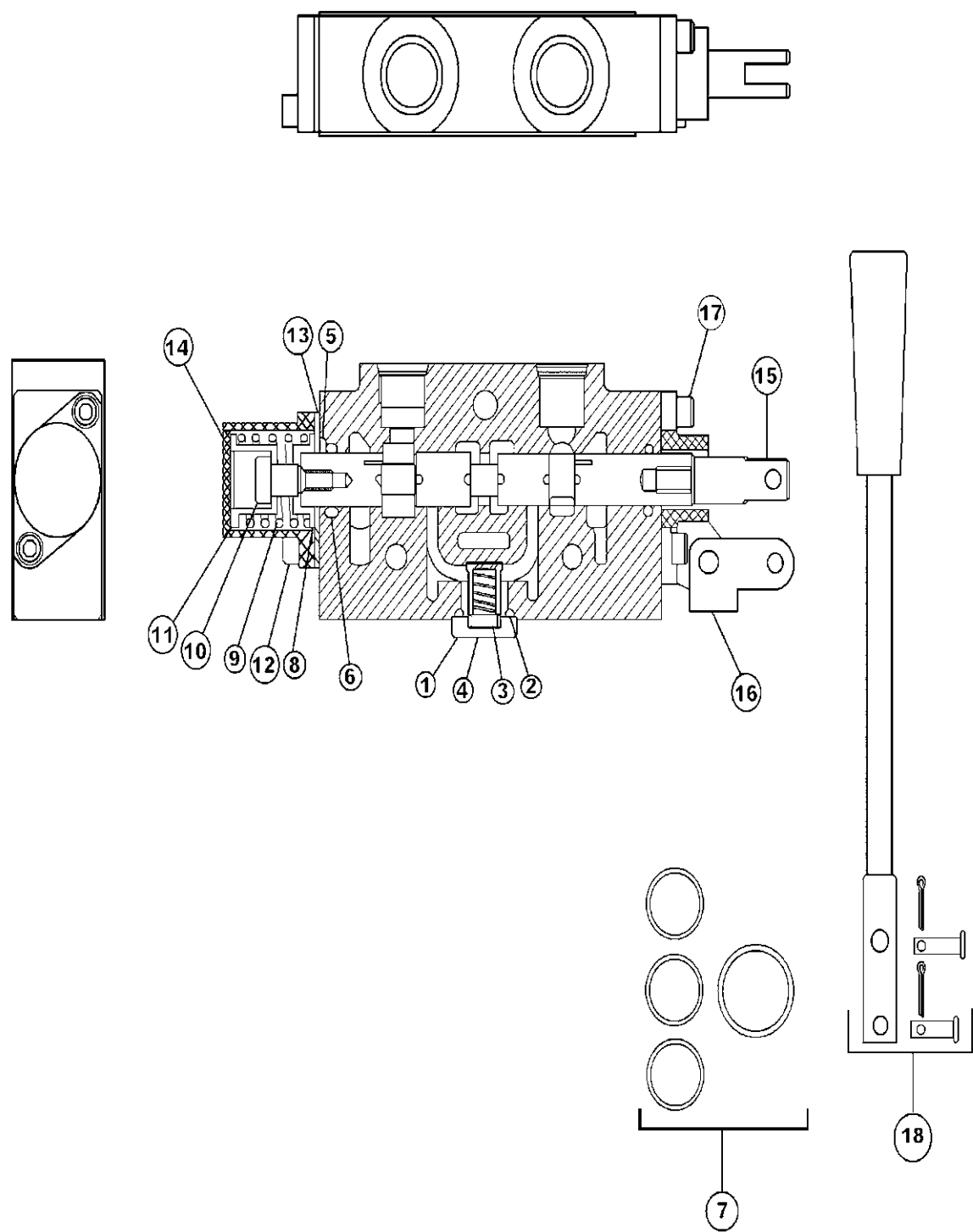
Illustration No. 296275119



Components-Voltage Stake Fig 5-6z01

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

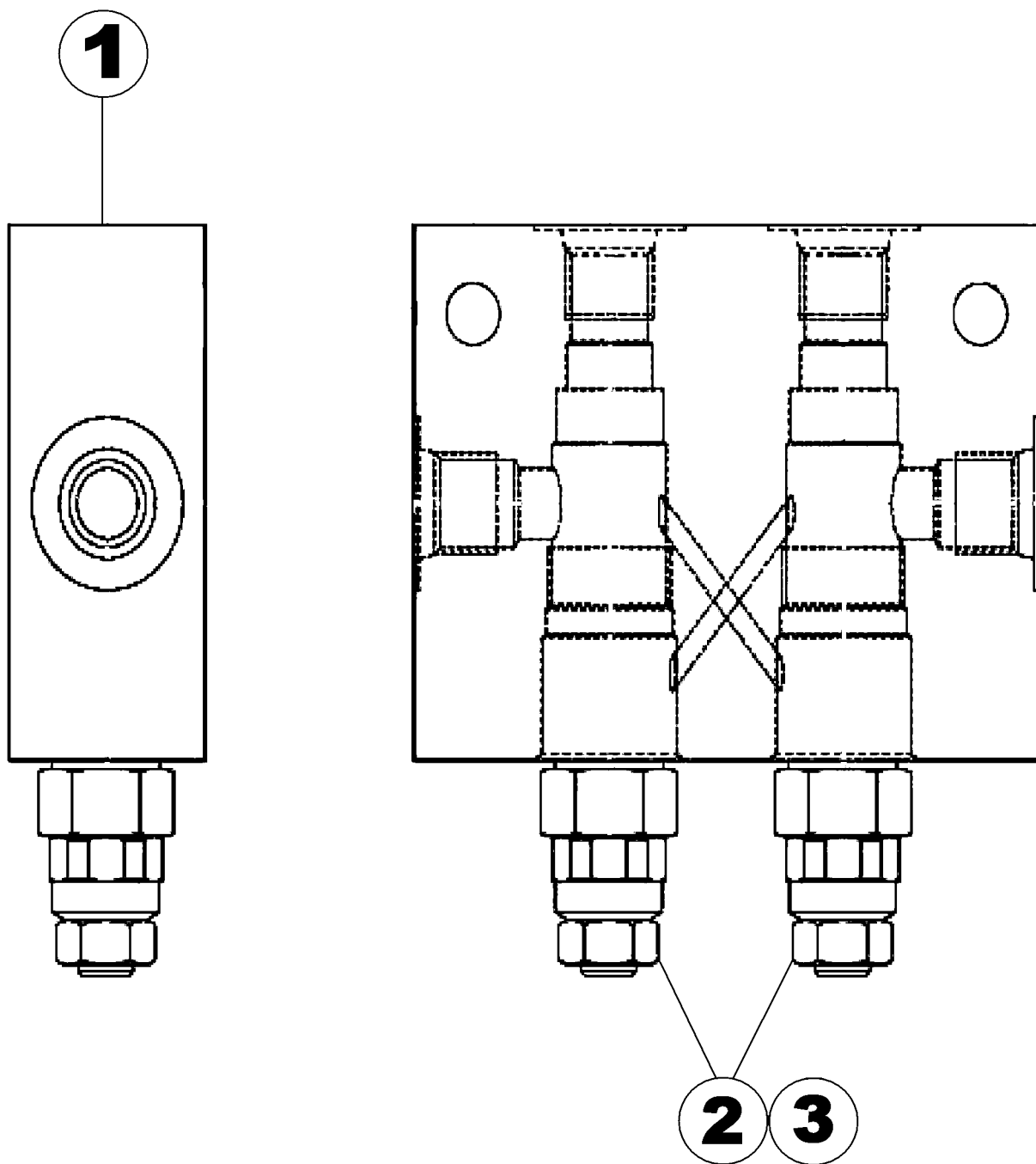
4 Section Hyd. Valve w/ CB Drain Fig 5-6z02



4 Section Hyd. Valve w/ CB Drain Fig 5-6z02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		902299073	PLUG	1	
2		210455041	O-RING	1	
3		902299071	SPRING	1	
4		902299069	POPPET	1	
5		210455009	SPOOL BACKUP RING	2	
6		296308961	SPOOL SEAL	2	
7		296319943	SEAL KIT - SVA - S347	1	
8		296271231	INNER STOP CUP	1	
9		296271232	SPRING	1	
10		296308969	ADAPTOR, SPOOL	1	
11		296308968	STOP CUP, OUTER	1	
12		296308971	CAP SCREW	2	
13		902299009	PLATE-SPACER	1	
14		296271235	END CAP	1	
15		100980009	ADAPTER-SPOOL END	1	
16		902299083	CLEVIS	1	
17		226904065	CAP SCREW	2	
18		296319944	HANDLE KIT	1	
			COUNTERBALANCE DRAIN SPOOL	1	Not Sold Separately
			MACHINED BODY	1	Not Sold Separately
		296320722	VALVE-4 SECTION HYD W/ CB DRAIN		Includes All Items In This Figure

Dual Counterbalance Valve Fig 5-6z03

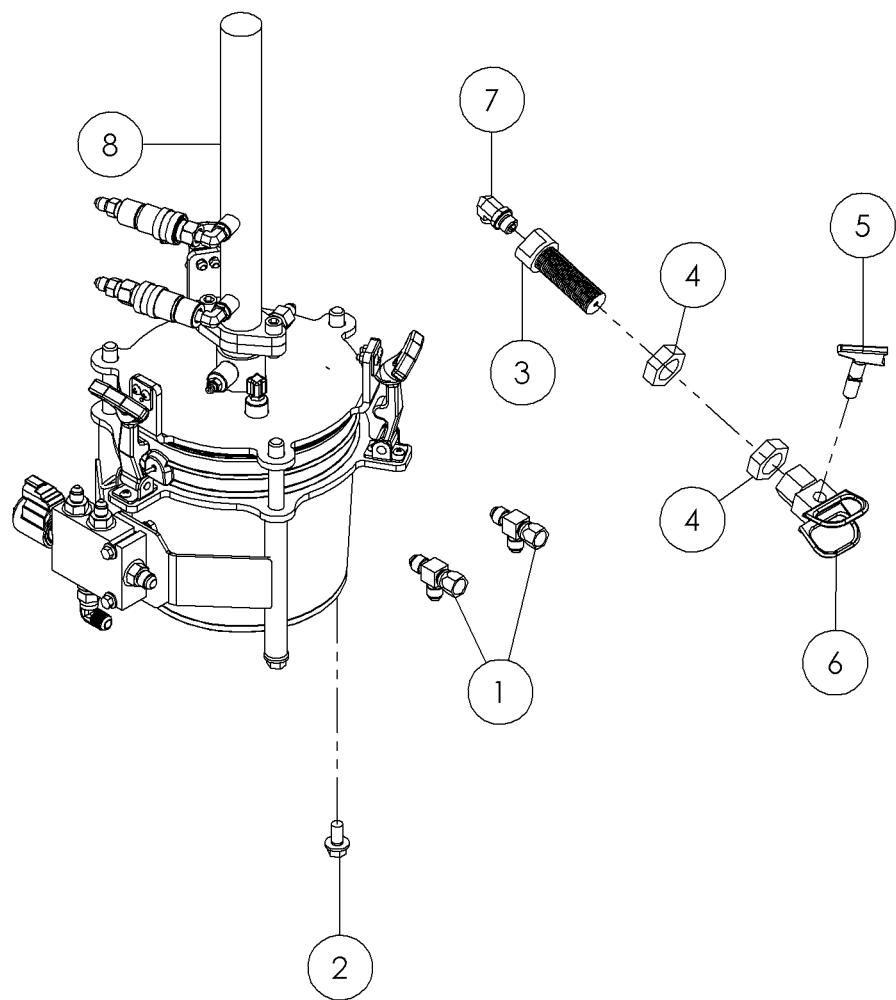


Dual Counterbalance Valve Fig 5-6z03

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296338868	ALUMINUM BODY	2	
2		296319945	CARTRIDGE - 56T2V	4	
3		296319507	SEAL KIT	A/R	
		296320723	VALVE-COUNTERBALANCE 2000PSI		Includes All Items In This Figure

Bucket Auto Greaser Mount Fig 5-7

Illustration No. 296320927

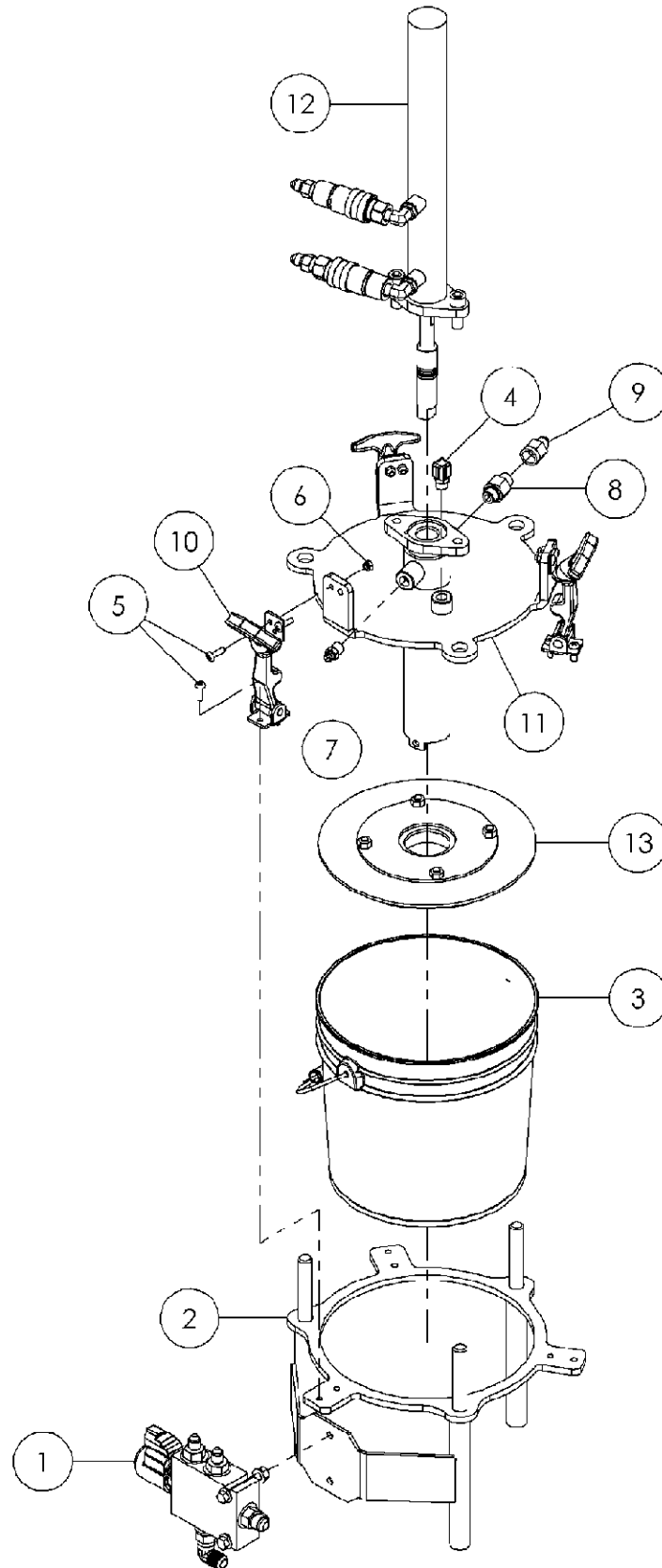


Bucket Auto Greaser Mount Fig 5-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		59427001	TEE-6MJ-6FSJ-6MJ	2	
2		296300771	SCREW-HFS-..38-16X.75GR8-YZ	3	
3		296303130	BAR - NOZZLE	1	
4		284562001	NUT, HEX JAM - .88 - 14 - GR5 - YZ	2	
5		296303135	SPRAY TIP	1	
6		296303136	GUARD TIP	1	
7		57950001	FITTING - 90-6MORBA-4MJ	1	
8		296303114	ASSEMBLY - AUTO GREASER (1GAL)	1	Breakdown Fig. 5-8

Bucket Auto Greaser (1 Gallon) Fig 5-8

Illustration No. 296303114

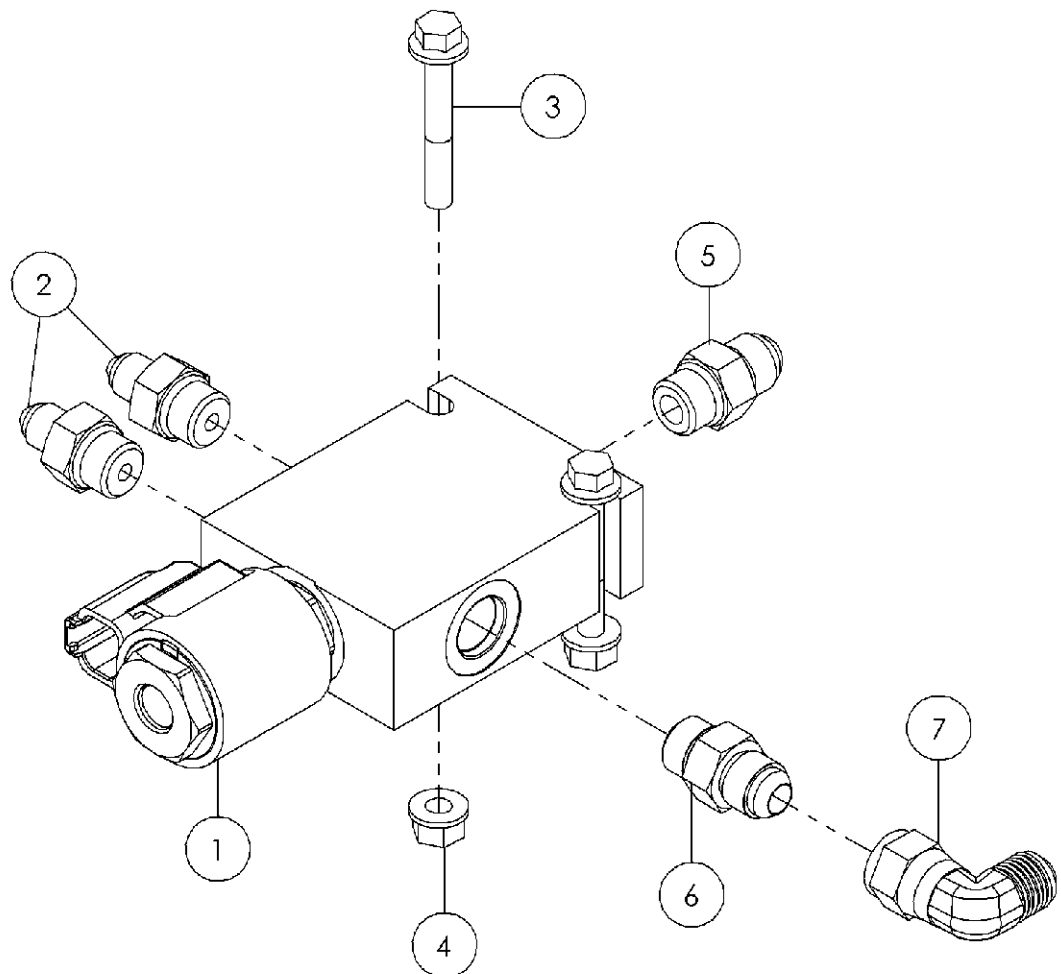


Bucket Auto Greaser (1 Gallon) Fig 5-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296287941	ASSEMBLY - AUTO GREASER VALVE	1	Breakdown Figure 5-9
2		296289052	WELD-BUCKET SUPPORT	1	
3		235983001	LUBRICANT - THREAD 1 GALLON	1	
4		599001	BREATHER VENT-1/8 NPT 131000	1	
5		233502001	SCREW- #10-24X5/8 PHILLIPS PAN	12	
6		99042001	NUT - NYLOCK - 10 - 24 - GR2 - CZ	12	
7		88978001	ZERK-1/8 NPT STR. LEAK PROOF	1	
8		296280727	FITTING-CHECK VALVE-6MORX6MJIC-40PSI	1	
9		59928001	6F JICX4M JIC ST REDUCER	1	
10		109591001	LATCH-4" RUBBER T HANDLE	3	
11		296303050	GREASER TOP	1	
12		296303115	CYLINDER - AUTO GREASER	1	Breakdown Figure 5-10
13		296303104	GREASE FOLLOWER	1	Breakdown Figure 5-11

Bucket Auto Greaser Valve Fig 5-9

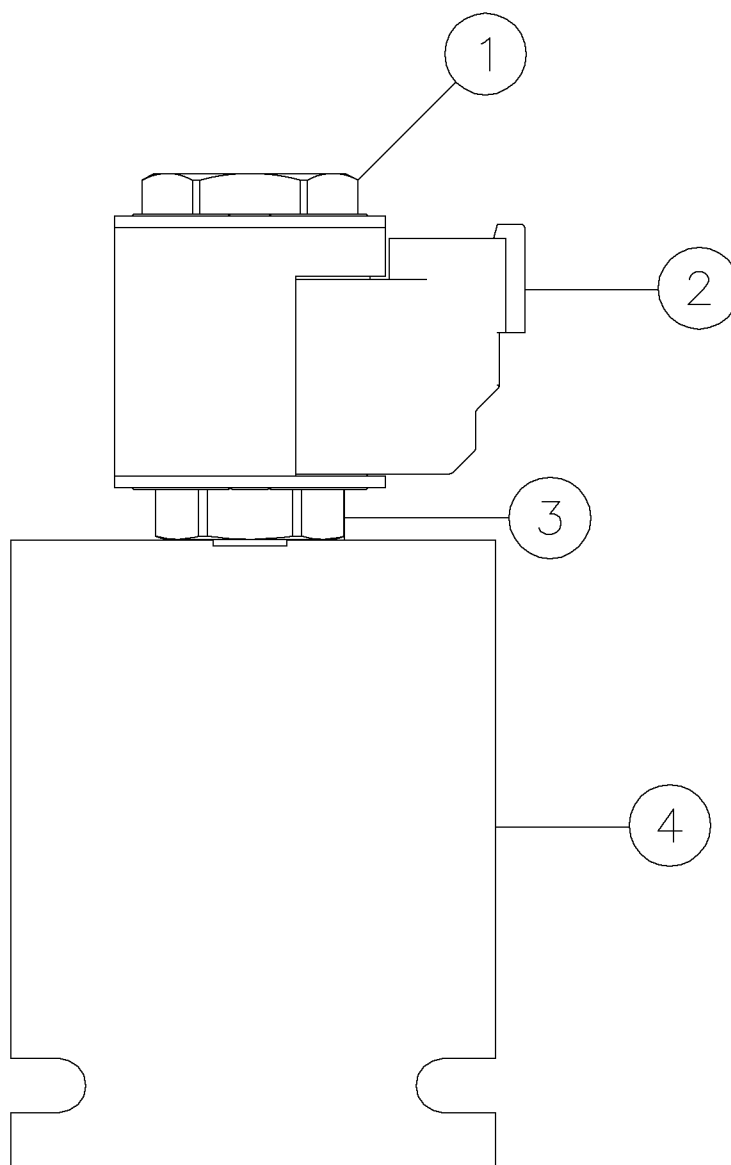
Illustration No. 296287941



Bucket Auto Greaser Valve Fig 5-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		294901001	VALVE - GREASER	1	Breakdown Figure 5-9z01
2		131009001	FITTING-4MJICX6MORING ST.062R	2	
3		296300757	SCREW-HFS-.25-20X1.75-GR8-YZ	2	
4		296300848	NUT-HEXFLGTL-.25-20-G-YZ	2	
5		65565001	FITTING - 6M O-RING X 6M JIC ST.	1	
6		251575001	VALVE-CHECK 6MORB 6MJIC INLINE	1	
7		60851001	FITTING-6M JICX6FS JIC 90ELBOW	1	

Components-Bucket Auto Greaser Valve Fig 5-9z01



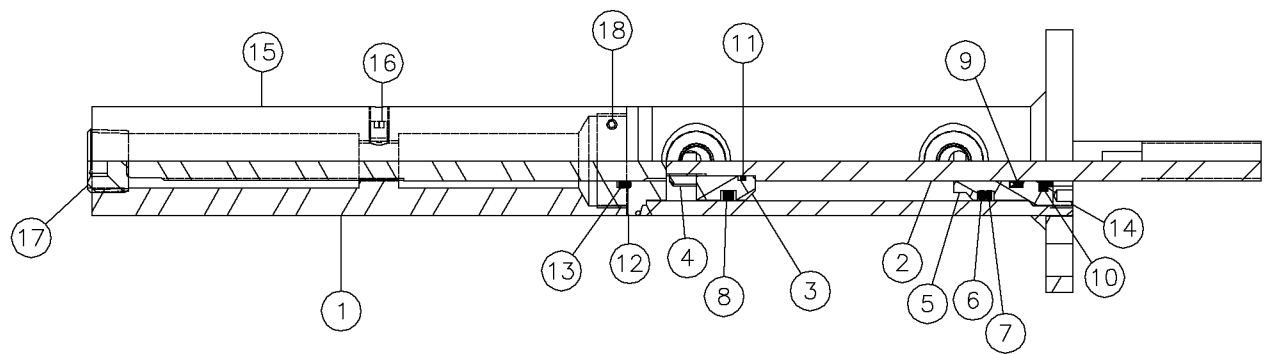
Components-Bucket Auto Greaser Valve Fig 5-9z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1			RING - BACKUP	1	Not Sold Separately
2			SEAL - O - RING	1	Not Sold Separately
3			SEAL - O - RING	1	Not Sold Separately
4			BODY-WH RELIEF	1	Not Sold Separately
5			RING - PISTION	1	Not Sold Separately
6			POPPET	1	Not Sold Separately
7		208019	SHIM - .010 #0462-001	A/R	
8		208017	SHIM - .020 #0459-001	A/R	
9		208015	SHIM - .040 #0458-001	A/R	
10		228113007	SPRING (3000-3500 PSI)	1	
11		15844009	BODY-WH RELIEF 6533-001	1	
12		3147027	CAP GRESEN 1880-001	1	
		15844007	REPAIR KIT-K19003		Included Ref. No's 1, 3 & 11
		3147011	SERVICE KIT GRESEN K-19002		Included Ref. No's 5 & 6
		228113005	WH MAIN RELIEF (3500 PSI)		Included All Items In This Figure

Bucket Auto Greaser Cylinder Fig 5-10

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296308339	CYL-1.00 BORE X 2.50 STROKE X 0.50 ROD	1	Breakdown Figure 5-10z01
2		619590001	FITTING-90-4MNPT-4MORBA	2	
3		601696010	SCREW-SHCS-.38-16X1.00-GR8-CZ	2	
4		67849001	FITTING - 1/4 M X 4M JIC ST.	2	
5		4255003	FITTING-CPLR-4MQUICK-4FNPT	2	
6		4255005	FITTING-CPLR-4FQUICK-4FNPT	2	
7		296303045	SHAFT - PISTON	1	
8		296287959	O-RING - .614ID X .140 WALL	2	

Components-Bucket Auto Greaser Cylinder Fig 5-10z01

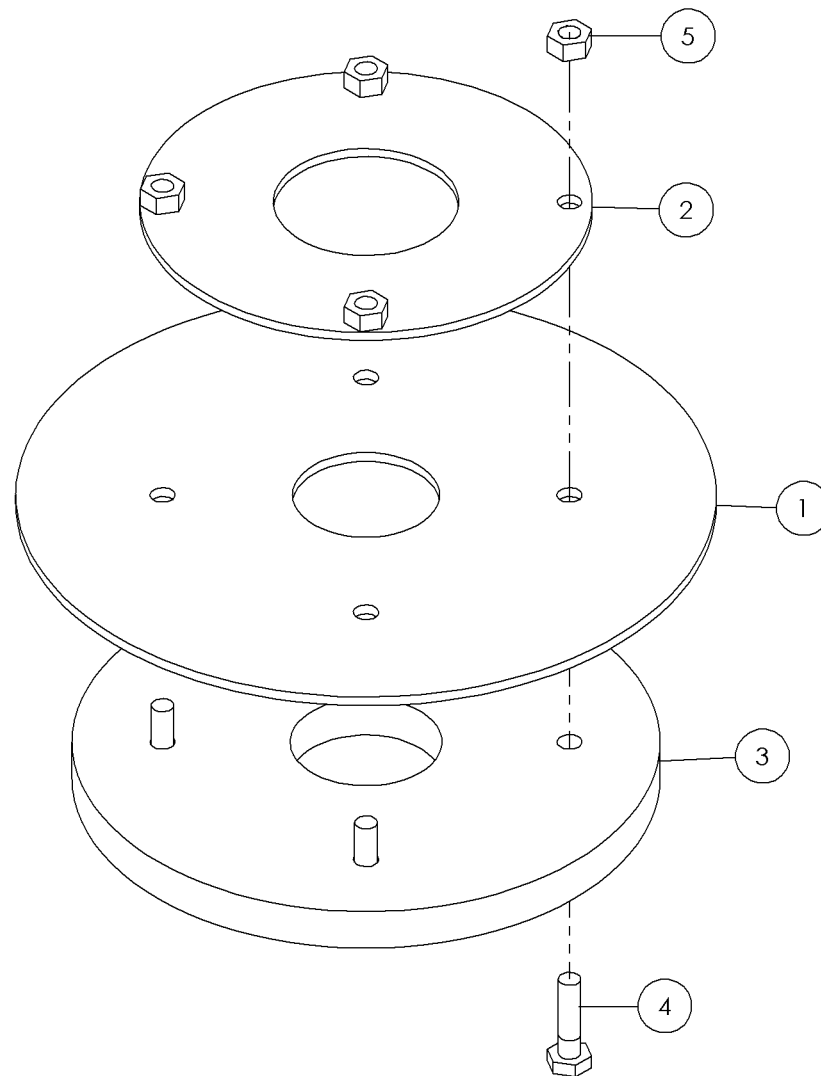


Components-Bucket Auto Greaser Cylinder Fig 5-10z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1			BARREL ASSY	1	Not Sold Separately
2			SHAFT ASSY	1	Not Sold Separately
3			PISTON	1	Not Sold Separately
4			FULL LOCK NUT	1	Not Sold Separately
5			HEAD SHAFT	1	Not Sold Separately
6			O-RING	1	Not Sold Separately
7			BACKUP	1	Not Sold Separately
8			PSP SEAL	1	Not Sold Separately
9			BS SEAL	1	Not Sold Separately
10			DUST SEAL	1	Not Sold Separately
11			O-RING	1	Not Sold Separately
12			O-RING	1	Not Sold Separately
13			BACKUP	1	Not Sold Separately
14			INTERNAL COLLAR	1	Not Sold Separately
15			STROKE ADJUSTER	1	Not Sold Separately
16			SET SCREW	1	Not Sold Separately
17			STEEL PIPE PLUG	1	Not Sold Separately
18			ROLL PIN	1	Not Sold Separately
		296308339	CYL-1.00 BORE X 2.50 STROKE X 0.50 ROD	1	Inc. all Items In Figure.
		296285225	REPAIR KIT		Inc. Ref. 6 Thru 13.

Components-Bucket Auto Greaser Follower Fig 5-11

Illustration No. 296303104

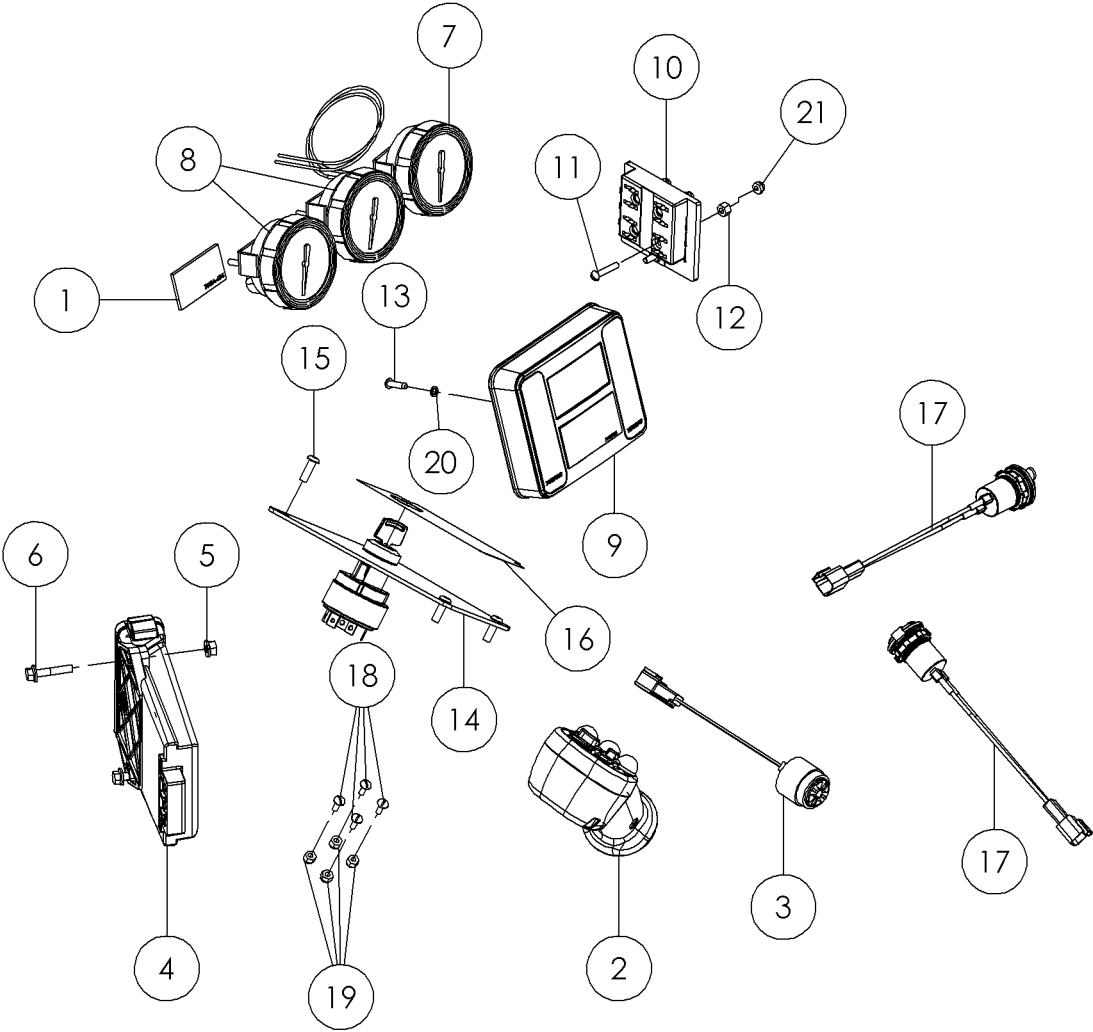


Components-Bucket Auto Greaser Follower Fig 5-11

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296303090	RUBBER WIPER	1	
2		296303013	PLATE - FOLLOWER	1	
3		296303075	PLATE GREASE FOLLOWER	1	
4		235735001	SCREW-HCS-.25-20X1.00-GR8-YZ	4	
5		248198001	NUT-TLHEX-.25-20-C-CD&W	4	

Control Panel Electrical Fig 6-1

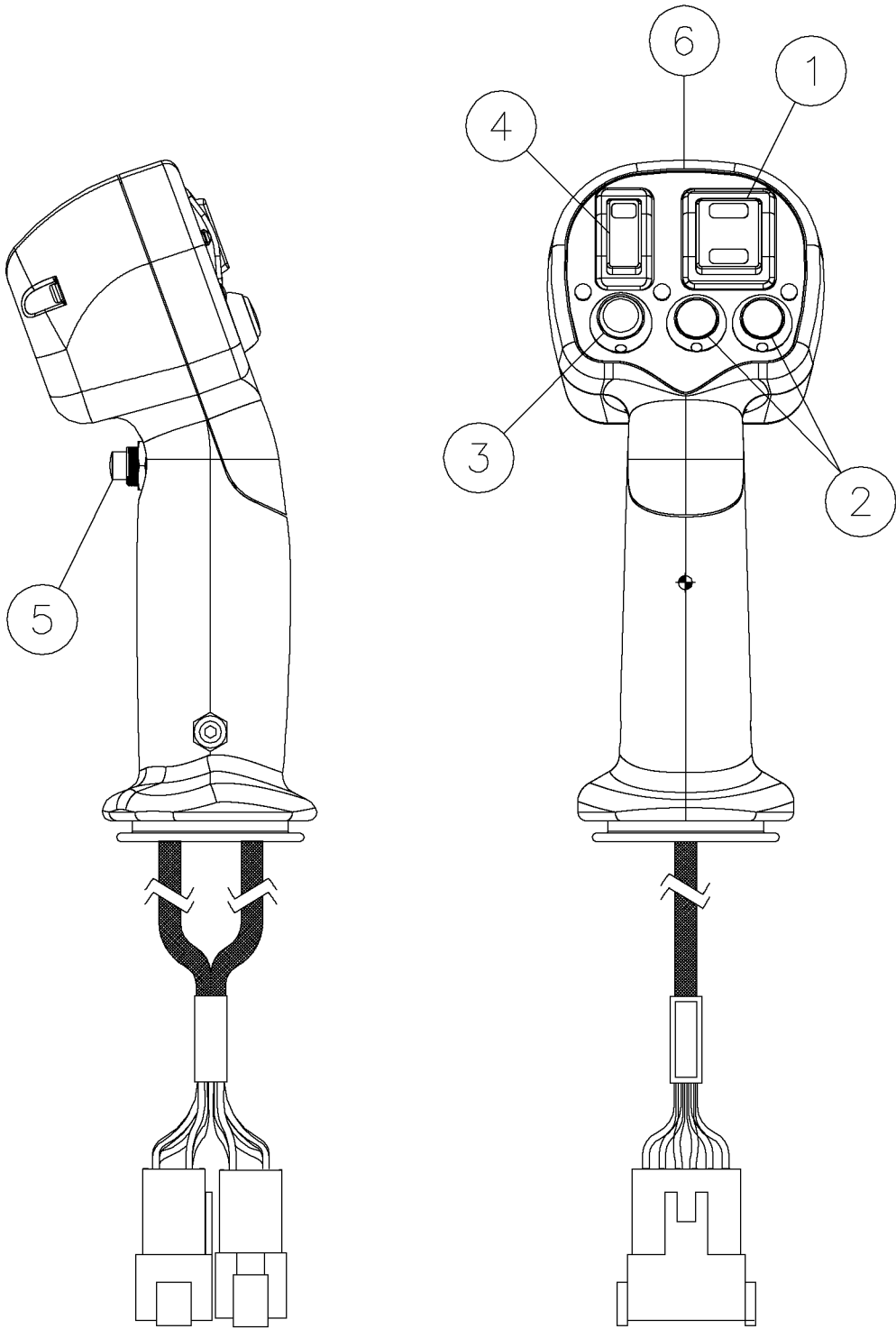
Illustration No. 296306215



Control Panel Electrical Fig 6-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		700IA634	DECAL-GAUGES	1	
2		296273908	HANDLE GRIP ASSEMBLY - RIGHT JOYSTICK	1	Breakdown Fig. 6-1z01
3		296292078	HORN - ZAP ALERT DEUTSCH 2 PIN	1	
4		296270163	ASM, STRIKEALERT BLANK	1	
5		296300848	NUT-HEXFLGTL-.25-20-G-YZ	2	
6		296300755	SCREW-HFS-.25-20X1.25-GRI-YZ	2	
7		277616001	GAUGE - 2000 PSI SPAN JIC	1	
8		289709001	GAUGE - SPAN 5000 PSI WITH BACKLITE	2	
9		296330504	D9X13II DP10-A, TOP ASM	1	
10		296308195	PANEL - 8 ATC FUSE	1	
11		1802010	*SCREW-MCH-10-24X1.00-GR2-CZ-ROUND-SLTD	4	
12		284471001	NUT - 10-24	4	
13		296320597	SCREW - #10-14 X .75 PLASTITE	4	
14		296320595	PLATE - KEY SWITCH MOUNT	1	
15		278986001	SCREW - 1/4 - 20 X 3/4 GR8 SBHCS CZ	4	
16		700IE045	DECAL - CONTROL, RIGHT HAND JOYSTICK, D9X13	1	Bdomestic/International
17		154677001	OUTLET - 12 VOLT	2	
18		57200001	SCREW-#8-32X1/2 RND.HD.MACH.	4	
19		69759001	LOCK NUT-#8-32 NYLON INSERT PL	4	
20		510335701	WASHER-LOCK-.19-.20X.33-.05-YZ	4	
21		296327025	*NUT-CAP-10-24-CA-LOW CRN MILLED	4	
22		296271130	KEY - SWITCH	1	

Components-Control Panel Joystick Fig 6-1z01

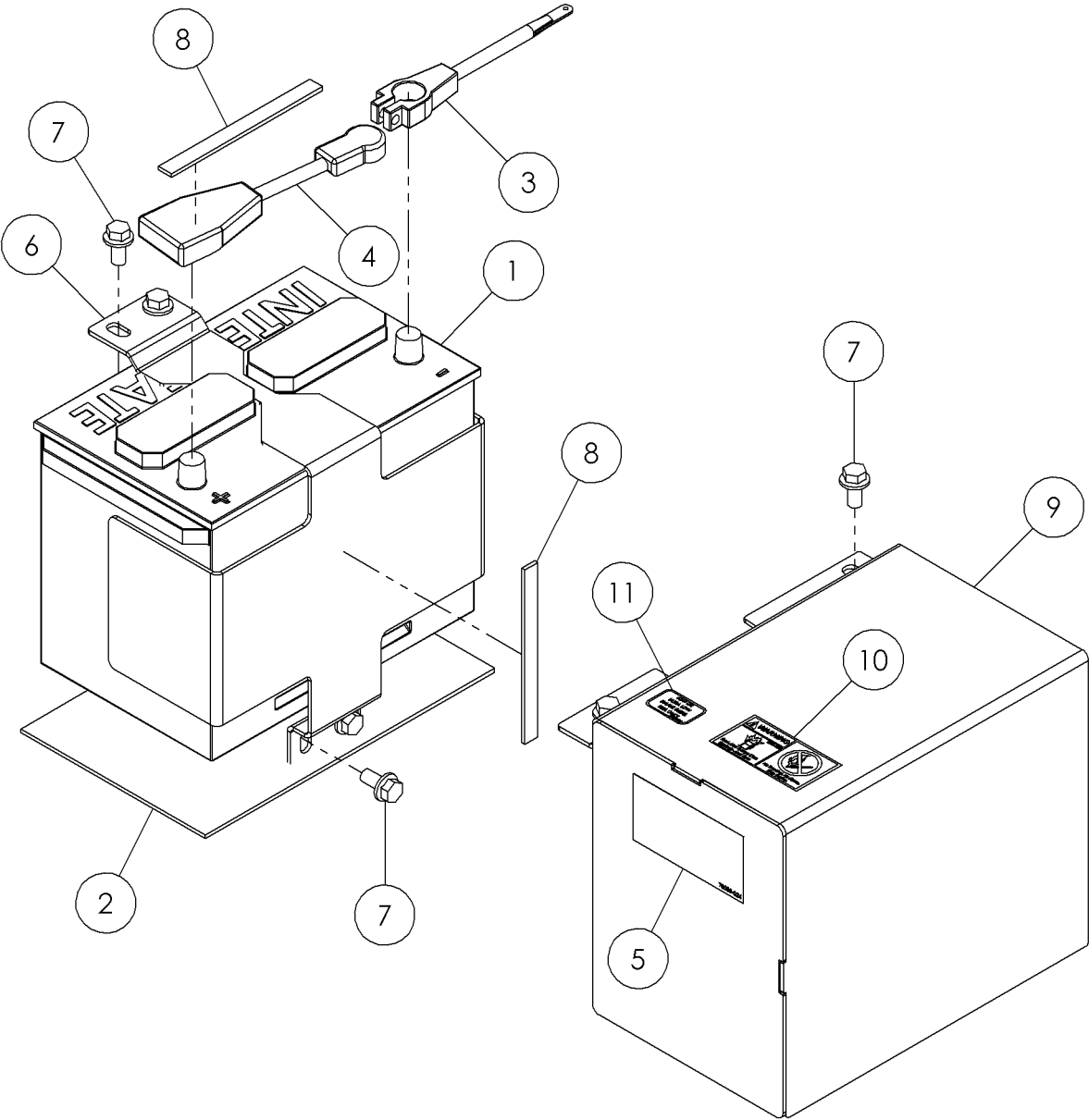


Components-Control Panel Joystick Fig 6-1z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296271142	ROCKER SWITCH	1	
2		296271137	SWITCH	2	
2		296271135	BOOT -RUBBER	2	
3		296271139	SWITCH	1	
3		296271135	BOOT -RUBBER	1	
4		296271141	ROCKER SWITCH	1	
5		296271140	SWITCH	1	
6		296285231	FACE PLATE- CONTROL	1	Includes Screw
6		296278212	SCREW	2	
		296273908	HANDLE GRIP ASSEMBLY - RIGHT JOYSTICK		Includes All Items In Figure

Battery (SN 138, 142-143, 145-) Fig 6-2r01

Illustration No. 296306231

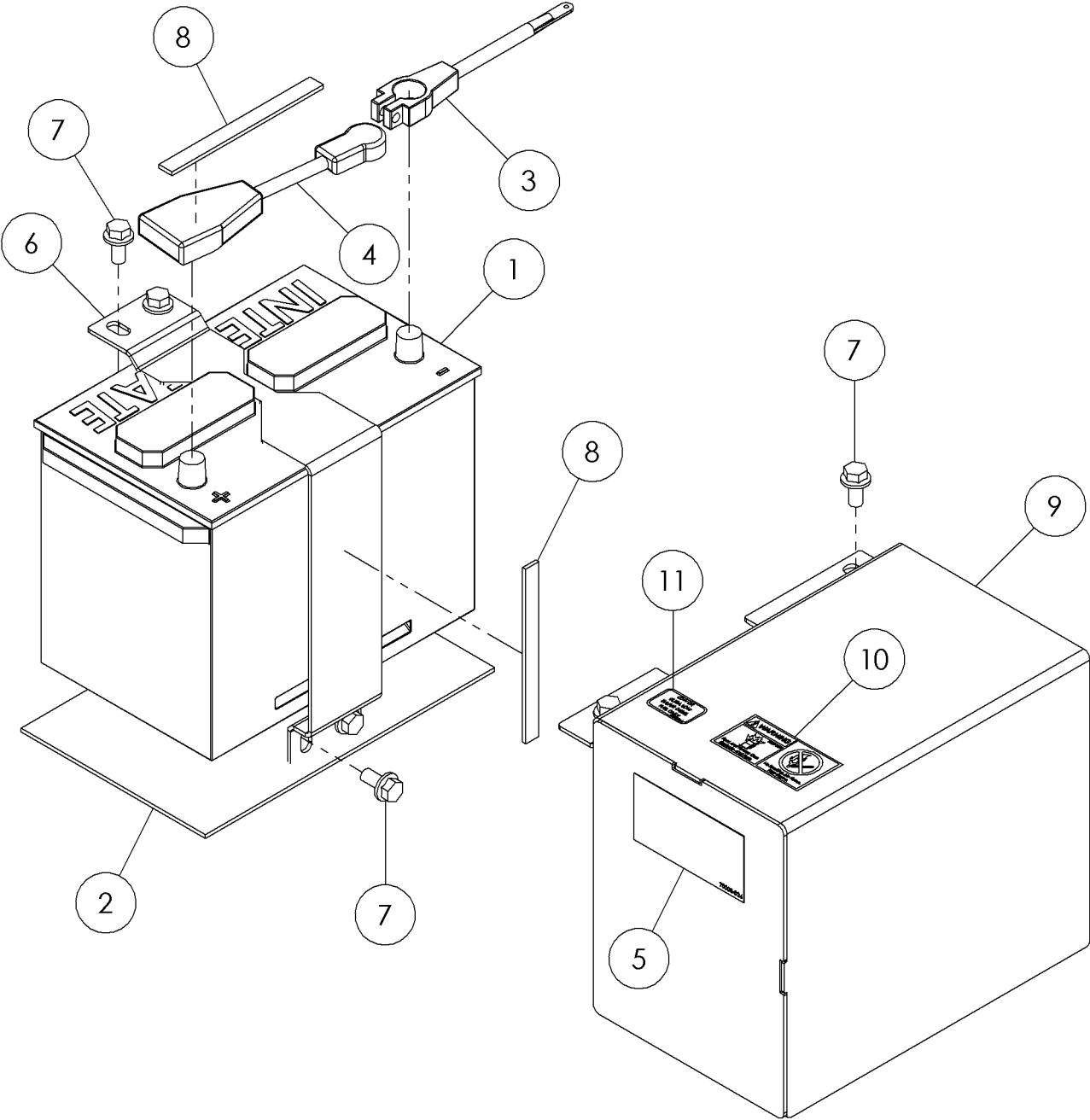


Battery (SN 138, 142-143, 145-) Fig 6-2r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1			BATTERY - 800CAA TOP POST	1	Not Available
2		127360001	PAD-BATTERY	1	
3		296320593	BATTERY CABLE 53" NEG. TOP POST	1	
4		296320594	BATTERY CABLE 77" POS. TOP POST	1	
5		7000B024	DECAL - WARNING	1	Domestic
5		700IB024	DECAL - WARNING	1	International
6		296320545	*PLATE - BATTERY HOLD DOWN	1	(138, 142-143, 145-)
7		296300771	SCREW-HFS-..38-16X.75GR8-YZ	6	
8		282764001	WEATHER STRIP 75 FT PER ROLL	2	
9		296320566	COVER - BATTERY	1	
10		2326324	DECAL-WARNING/REFUEL	1	Domestic
10		2326I324	DECAL - WARNING EXPLOSION	1	International
11		7000B814	DECAL - DIESEL FUEL SPECIFICATION	1	Domestic/International

Battery (SN 101-137) Fig 6-2

Illustration No. 296306231

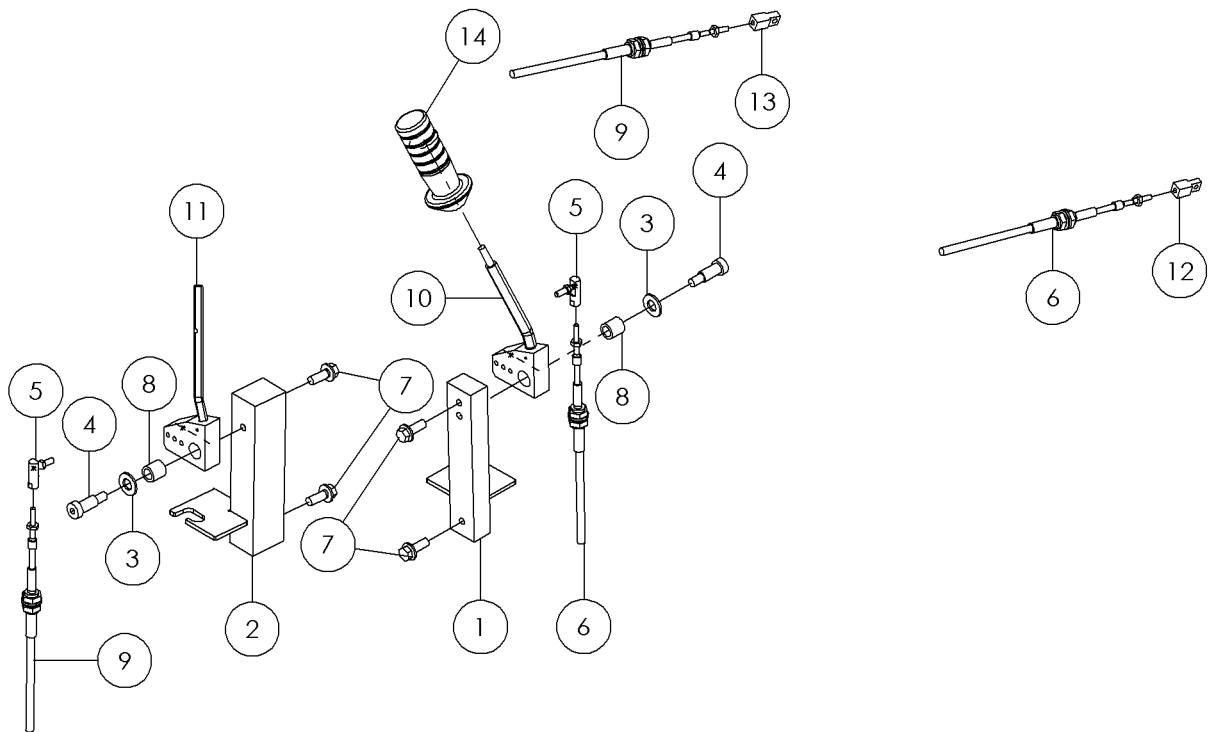


Battery (SN 101-137) Fig 6-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1			BATTERY - 800CAA TOP POST	1	NOT SOLD SEPARATELY
2		127360001	PAD-BATTERY	1	
3		296320593	BATTERY CABLE 53" NEG. TOP POST	1	
4		296320594	BATTERY CABLE 77" POS. TOP POST	1	
5		7000B024	DECAL - WARNING	1	Domestic
5		700IB024	DECAL - WARNING	1	International
6		296320545	PLATE - BATTERY HOLD DOWN	6	
7		296300771	SCREW-HFS-..38-16X.75GR8-YZ	2	
8		282764001	WEATHER STRIP	1	(2.2')
9		296320566	COVER - BATTERY	1	
10		2326324	DECAL-WARNING/REFUEL	1	Domestic
10		2326I324	DECAL - WARNING EXPLOSION	1	International
11		7000D814	DECAL - DIESEL FUEL SPECIFICATION	1	Domestic

Joystick (SN 166-) Fig 6-3r01

Illustration No. 296320529

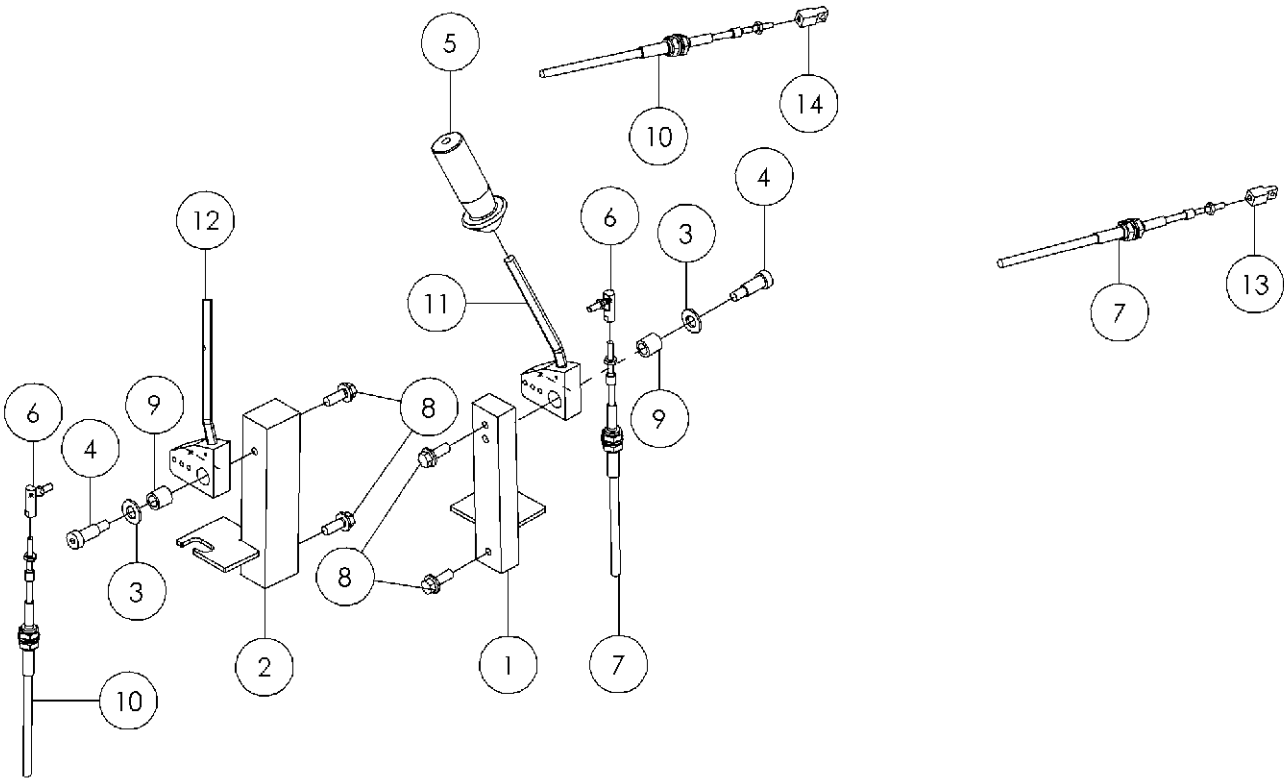


Joystick (SN 166-) Fig 6-3r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306241	WELDMENT - CABLE MOUNT LH	1	
2		296306240	WELDMENT - CABLE MOUNT RH	1	
3		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
4		129671001	SCREW-1/2X1 SOCKET SHOULDER	2	
5		1489001	BALL JOINT - 1/4" SP1002 CP	2	
6		296320567	CABLE - PUSH/PULL 60" END TO END	1	
7		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	4	
8		296320548	BUSHING-NYLON .75OD X .50ID X.75	2	
9		296320568	CABLE - PUSH/PULL 80" END TO END	1	
10		296320609	PIVOT - LH JOYSTICK	1	
11		296320610	PIVOT - RH JOYSTICK	1	
12		296320608	ROD END - ROTATION VALVE	1	
13		296320576	ROD END - VALVE	1	
14		296320691	*HANDLE GRIP	1	

Joystick (SN 101-165) Fig 6-3

Illustration No. 296320529

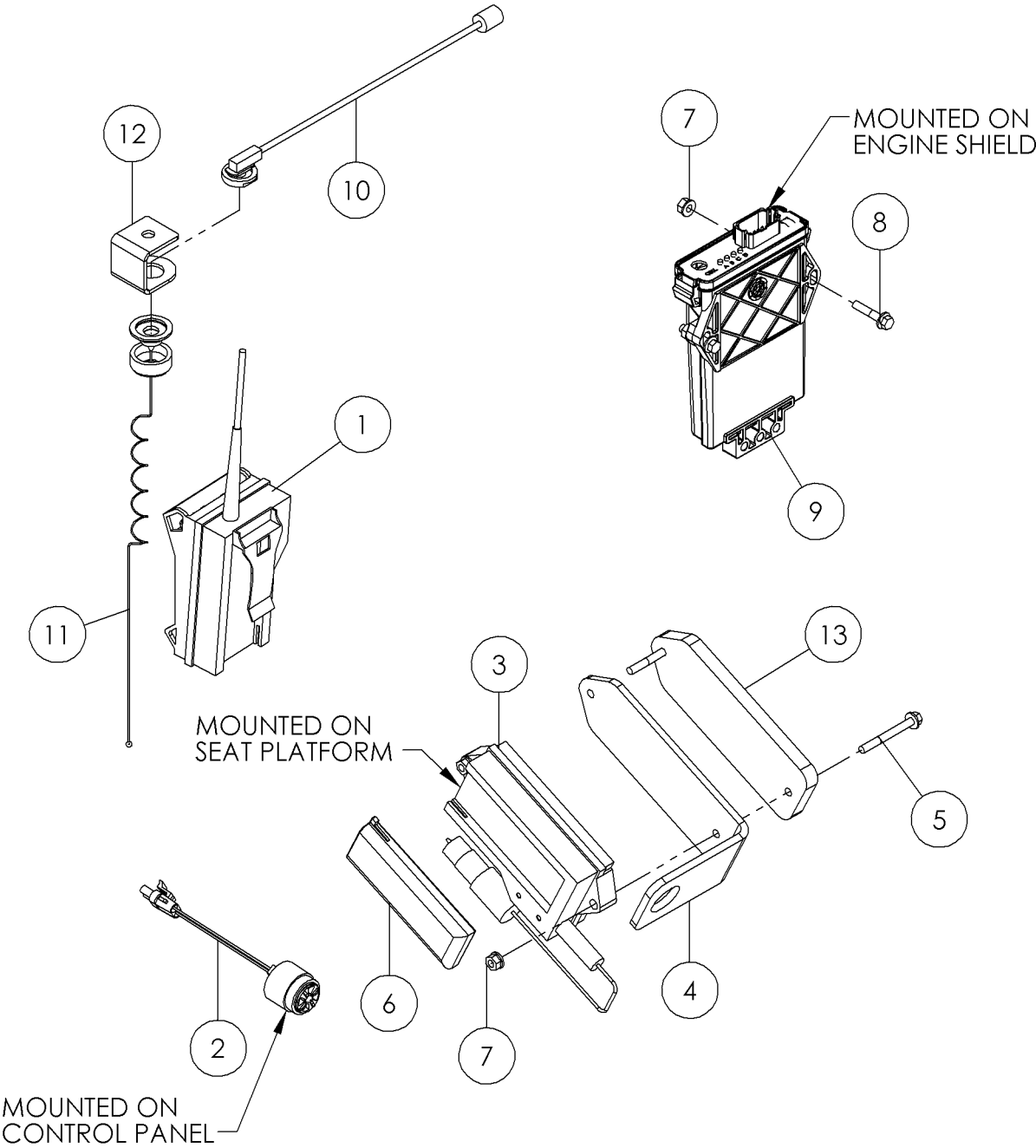


Joystick (SN 101-165) Fig 6-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296306241	WELDMENT - CABLE MOUNT LH	1	
2		296306240	WELDMENT - CABLE MOUNT RH	1	
3		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	
4		129671001	SCREW-1/2X1 SOCKET SHOULDER	2	
5		296320549	HANDLE GRIP-FULL FLANGE W/8MM COUPLING NO BOOT	1	
6		1489001	BALL JOINT - 1/4" SP1002 CP	2	
7		296320567	CABLE - PUSH/PULL 60" END TO END	1	
8		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	4	
9		296320548	BUSHING-NYLON .75OD X .50ID X.75	2	
10		296320568	CABLE - PUSH/PULL 80" END TO END	1	
11		296320609	PIVOT - LH JOYSTICK	1	
12		296320610	PIVOT - JH JOYSTICK	1	
13		296320608	ROD END - ROTATION VALVE	1	
14		296320576	ROD END - VALVE	1	

Remote Lockout-Domestic Fig 6-4

Illustration No. 296306216

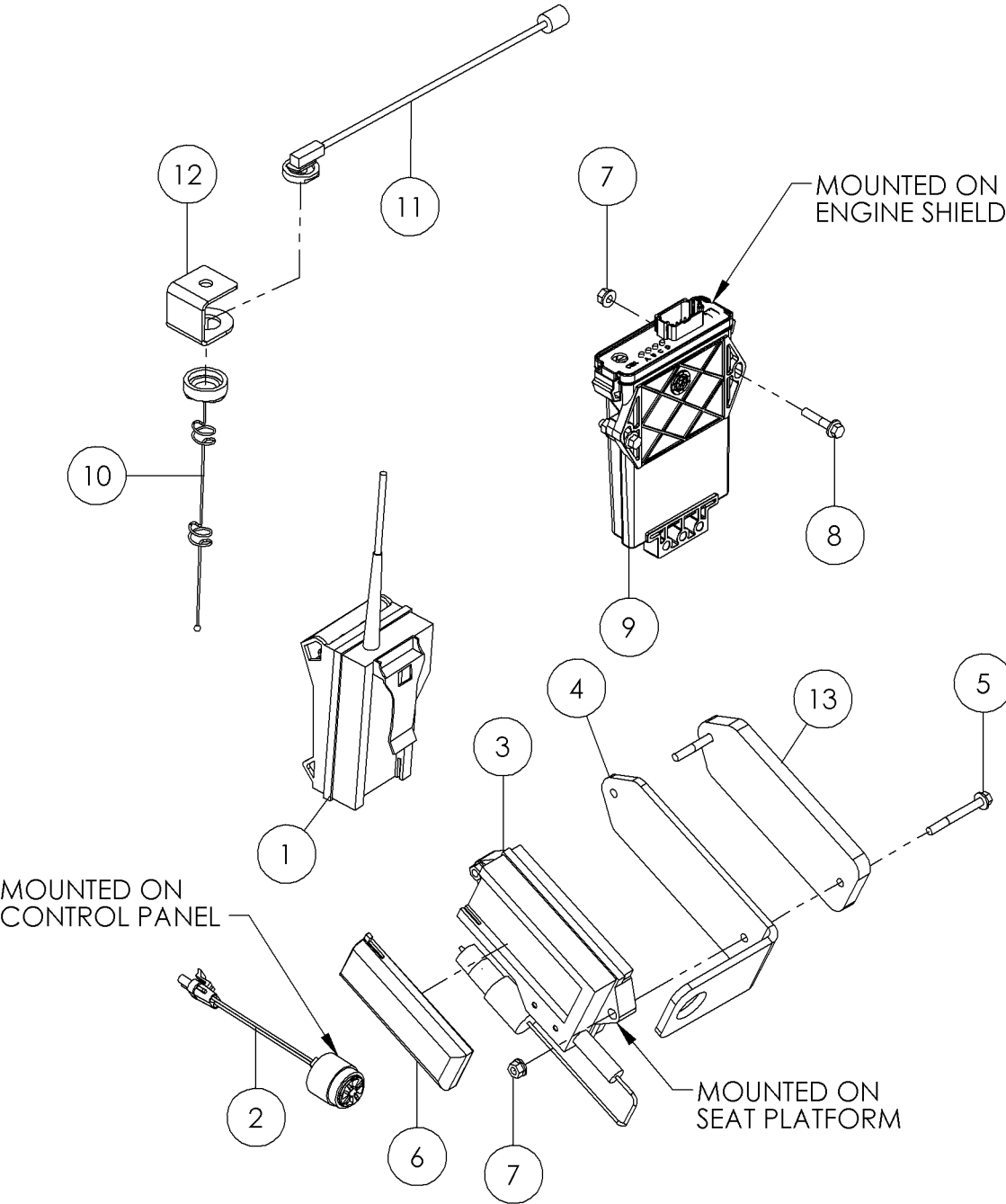


Remote Lockout-Domestic Fig 6-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272303	ASM - R309LK FOR HDD	1	
2		286920001	REMOTE LOCKOUT BUZZER	1	
3		296272392	CHARGER, 12-VOLT NBB	1	
4		296320598	PLATE - BATTERY CHARGER SPACER	1	
5		296300759	SCREW-HFS-.25-20X2.25-GR8-YZ	2	
6		296272400	BATTERY - 1000MA NBB	1	
7		296300848	NUT-HEXFLGTL-.25-20-G-YZ	4	
8		296300755	SCREW-HFS-.25-20X1.25-GRI-YZ	2	
9		296330514	ASM - B309LK8 D9X13II	1	
10		296272366	MOUNT - ANTENNA MOTOROLA TYPE RG-58	1	
11		296272364	ANTENNA -915 MHZ, 3 dBI, 1/4 WAVE	1	
12		296320538	PLATE - RLO ANTENNA MOUNT	1	
13		296320704	*PLATE - BATTERY CHARGER	1	

Remote Lockout-International Fig 6-5

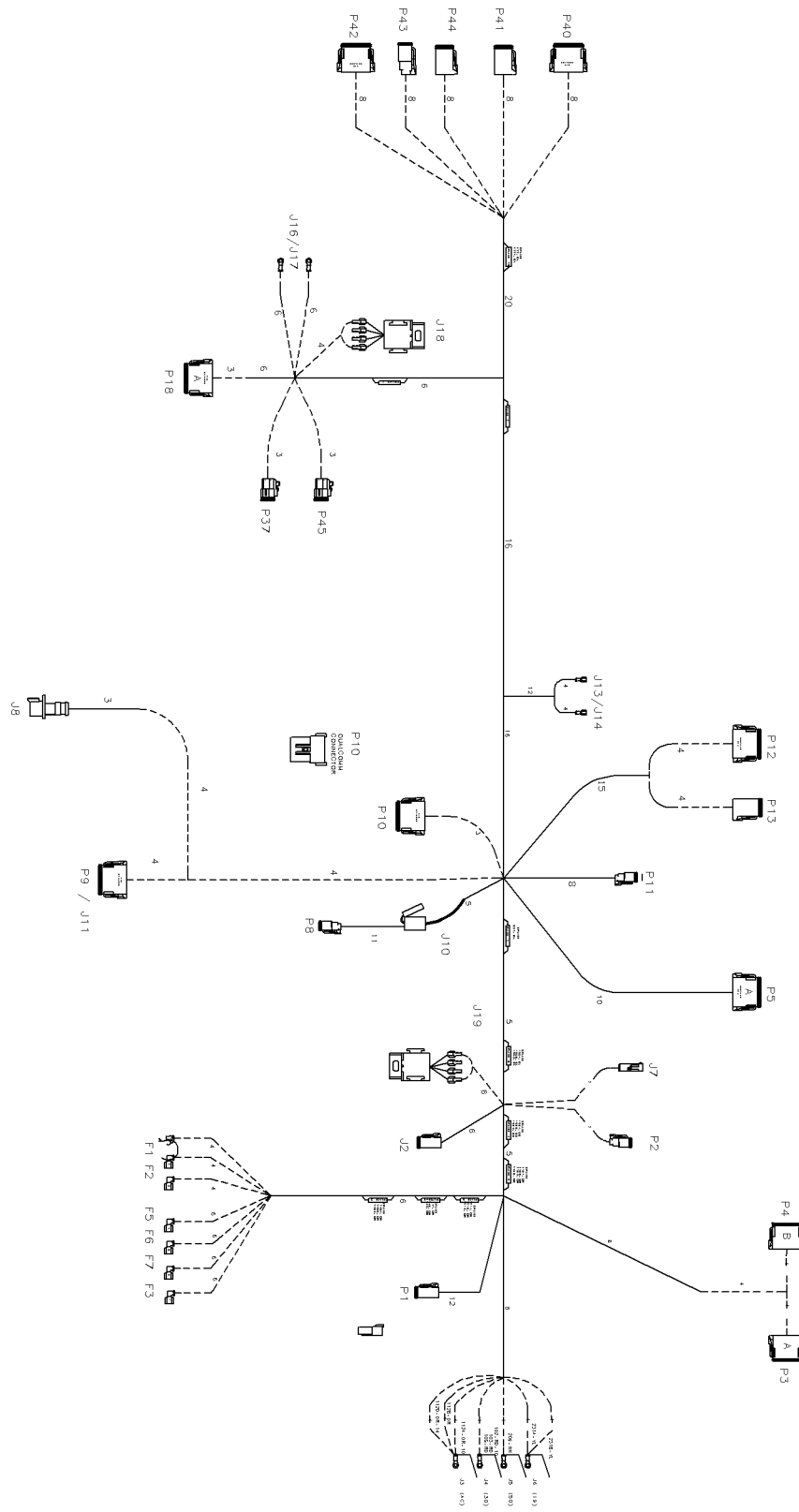
Illustration No. 296306248



Remote Lockout-International Fig 6-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272513	R324LK, REMOTE LOCKOUT INT	1	
2		286920001	REMOTE LOCKOUT BUZZER	1	
3		296272392	CHARGER, 12-VOLT NBB	1	
4		296320598	PLATE - BATTERY CHARGER SPACER	1	
5		296300759	SCREW-HFS-.25-20X2.25-GR8-YZ	2	
6		296272400	BATTERY - 1000MA NBB	1	
7		296300848	NUT-HEXFLGTL-.25-20-G-YZ	4	
8		296300755	SCREW-HFS-.25-20X1.25-GRI-YZ	2	
9		296305000	ASM - B324LK8 D9X13II	1	
10		296272382	ANTENNA - 2400MHZ 1/4 WAVE	1	
11		296272366	MOUNT - ANTENNA MOTOROLA TYPE RG-58	1	
12		296320538	PLATE - RLO ANTENNA MOUNT	1	
13		296320704	*PLATE - BATTERY CHARGER	1	

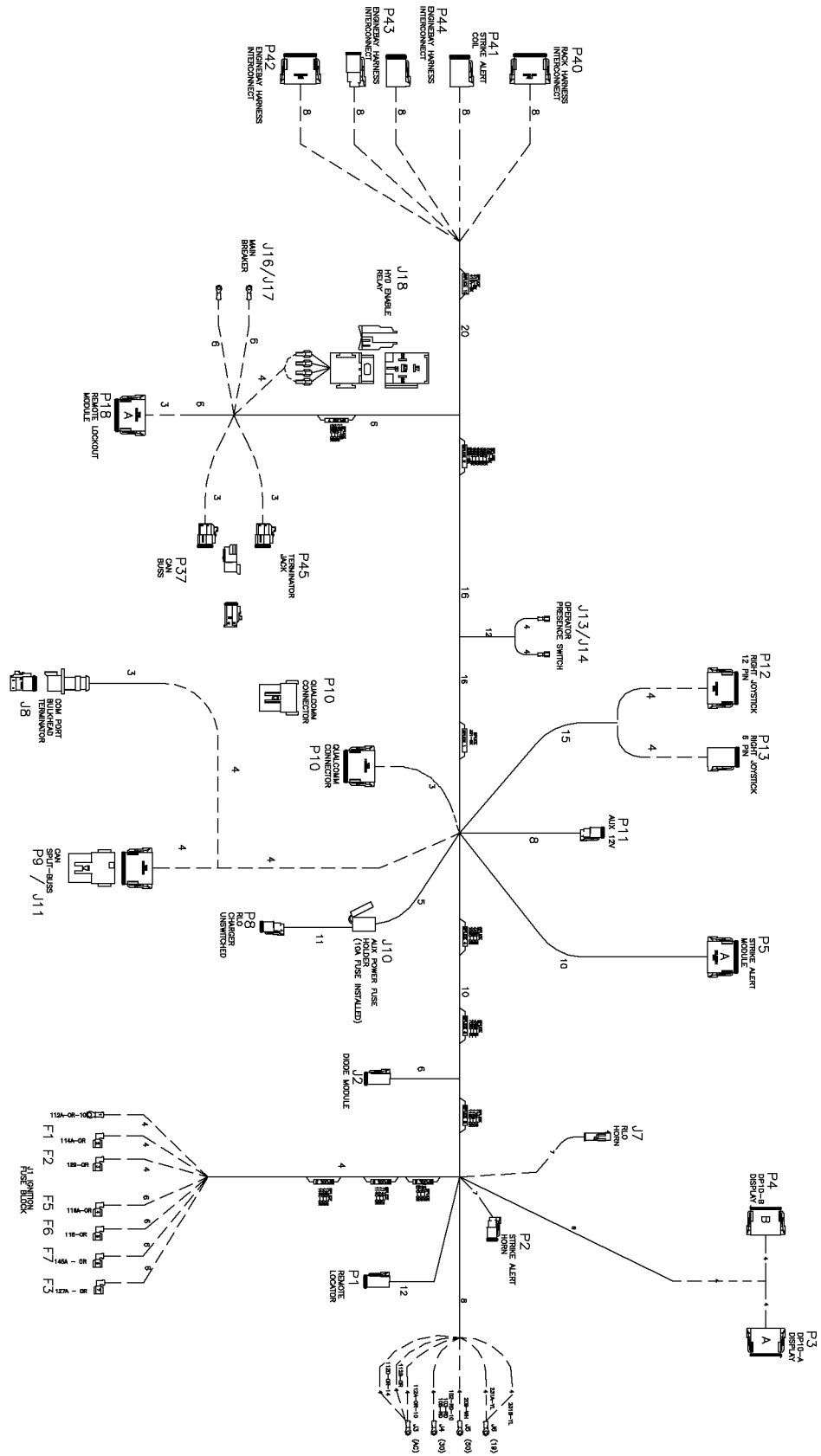
Harness-Console (SN 128-) Fig 6-6r01



Harness-Console (SN 128-) Fig 6-6r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296308180	*HARNESS - CONSOLE D9 X 13II	1	(128-)

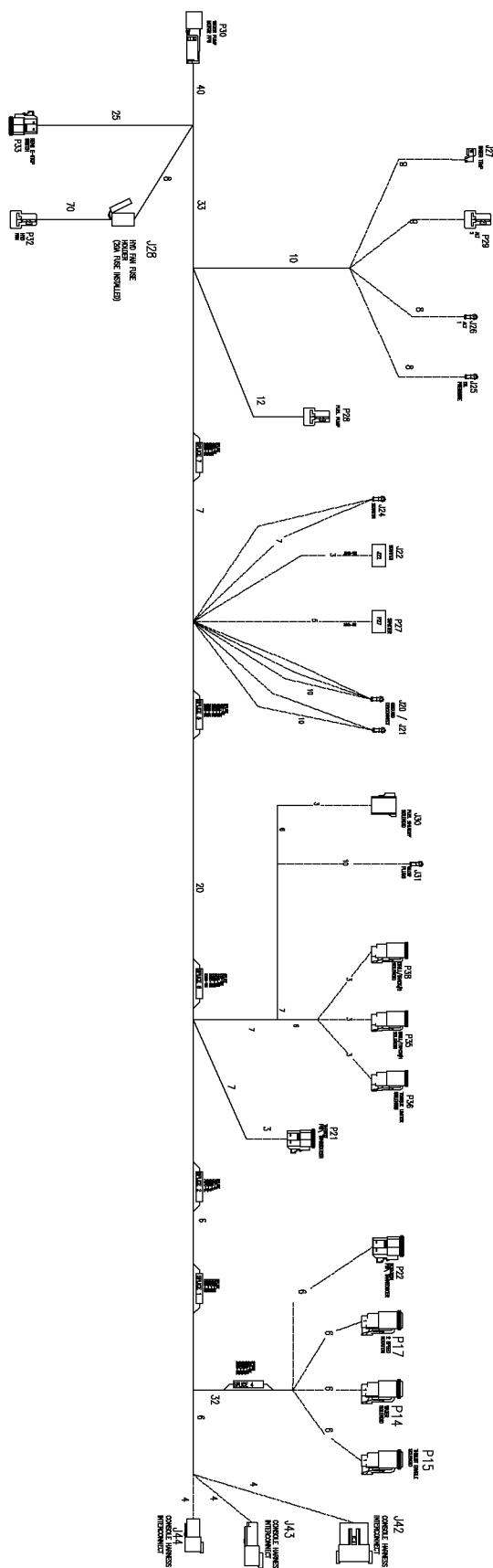
Harness-Console (SN 101-127) Fig 6-6



Harness-Console (SN 101-127) Fig 6-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296308180	HARNESS - CONSOLE D9 X 13II	1	

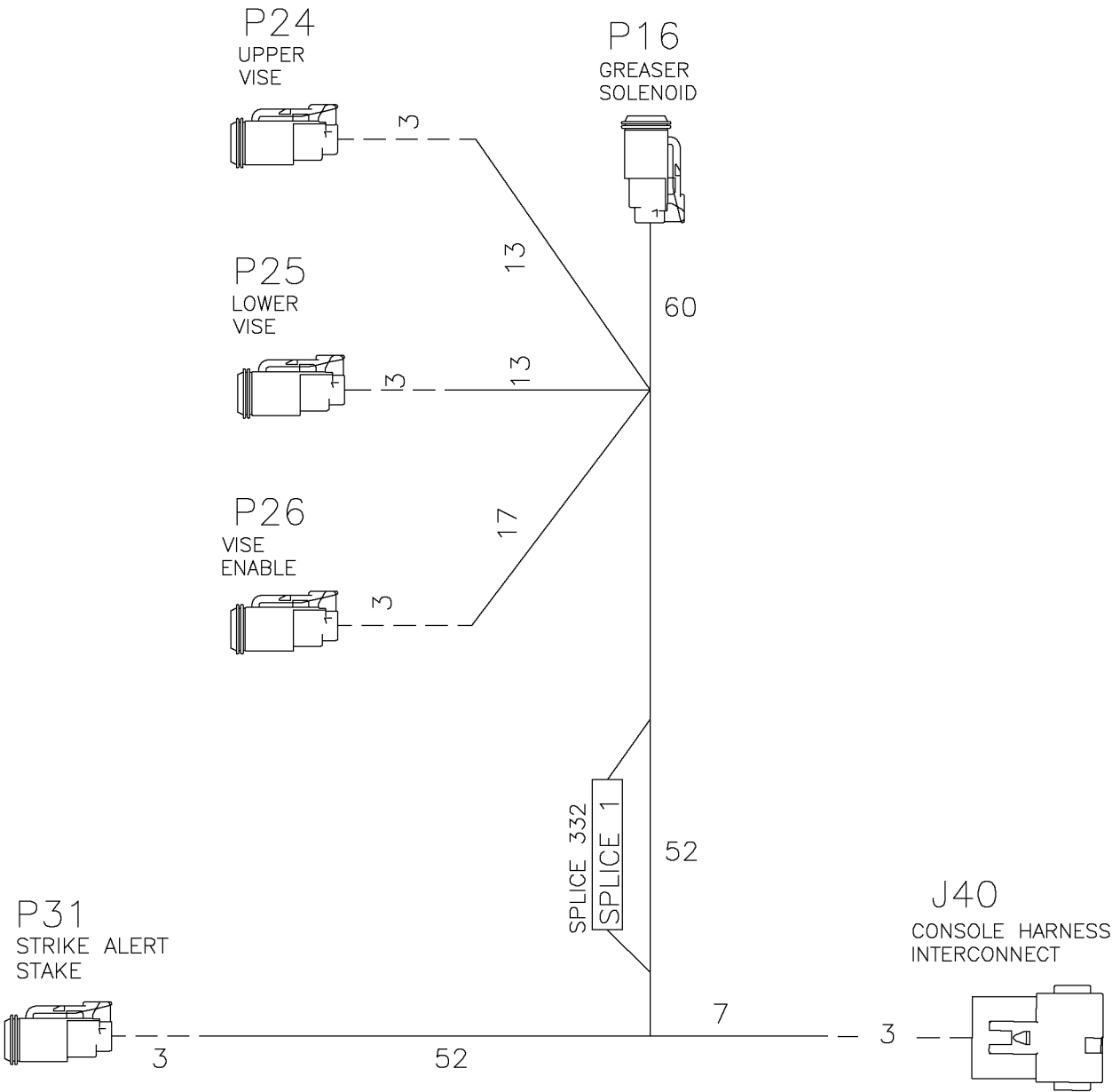
Harness-Engine Bay Fig 6-7



Harness-Engine Bay Fig 6-7

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296319068	HARNESS-ENGINEBAY D9X13II	1	

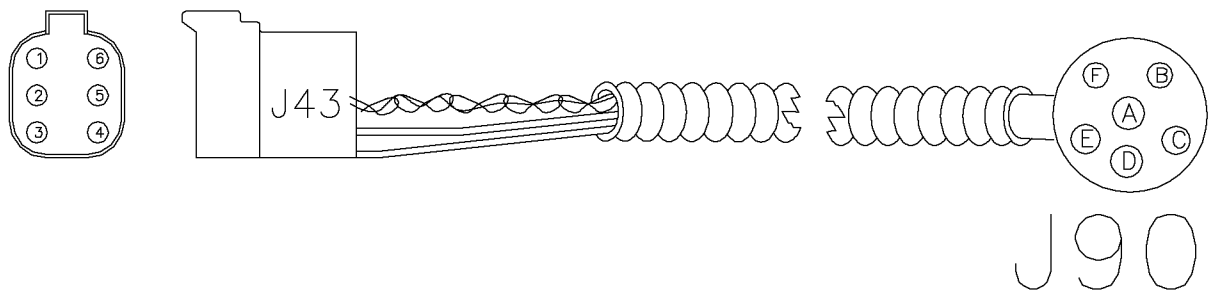
Harness-Rack Fig 6-8



Harness-Rack Fig 6-8

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296308181	HARNESS - RACK D9X13II	1	

Harness-Strike Alert Coil Fig 6-9

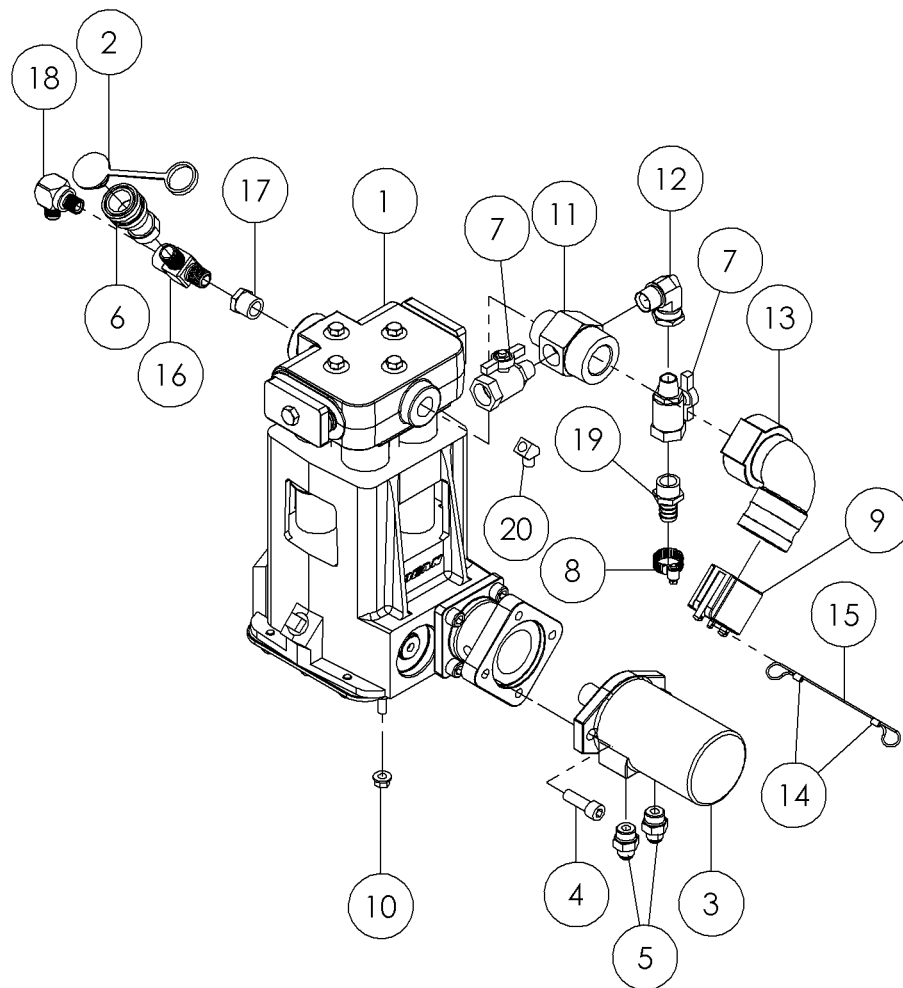


Harness-Strike Alert Coil Fig 6-9

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
		296280272	HARNESS - STRIKE ALERT COIL D7X11II	1	

Water Pump-15 GPM W/FM Fig 7-1

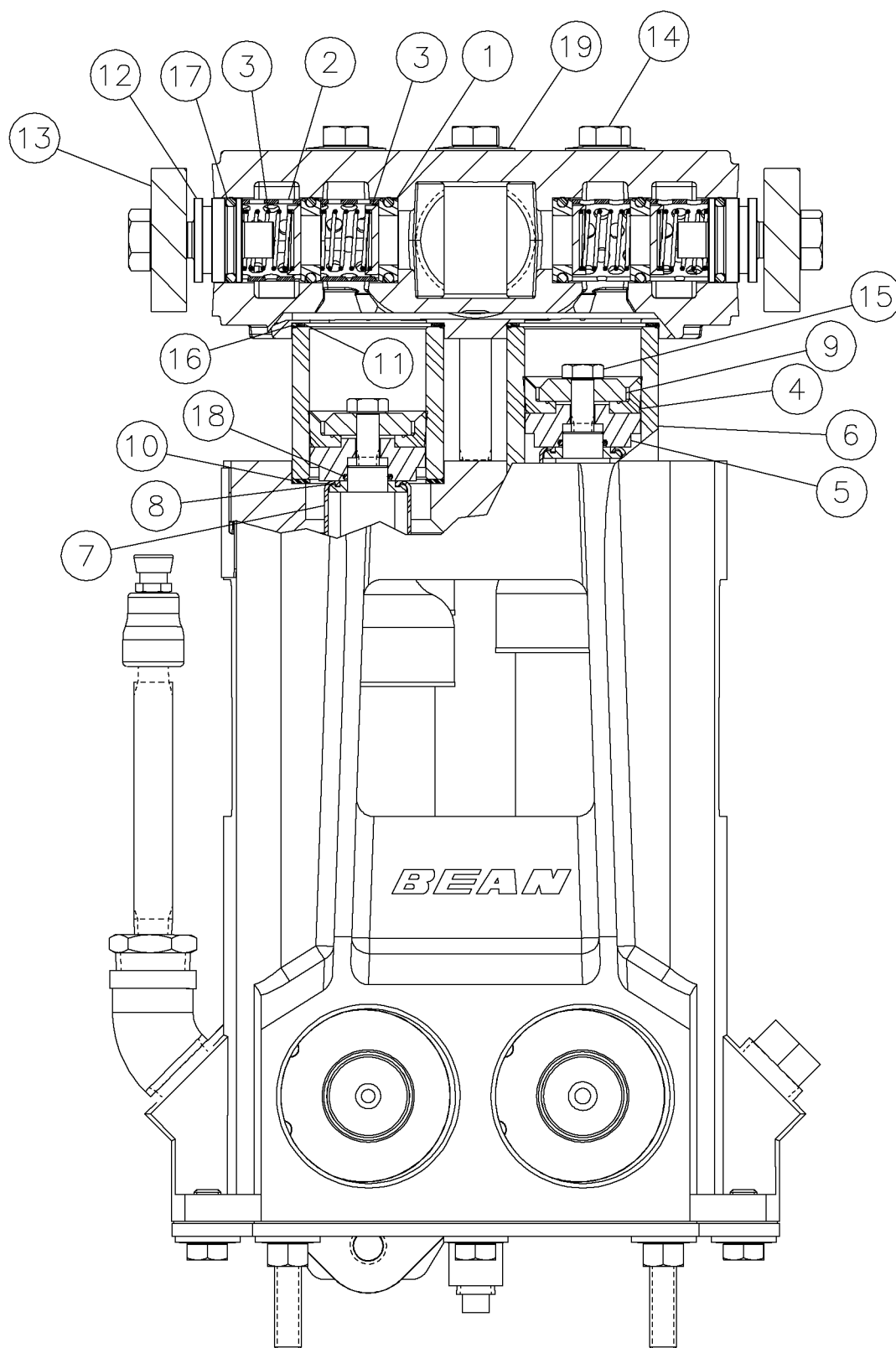
Illustration No. 296308104



Water Pump-15 GPM W/FM Fig 7-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296308168	PUMP - WATER W/ STUD MOUNT	1	Breakdown Fig. 7-1z01
2		234679001	CAP - DUST	1	
3		296308170	MOTOR-HYDRAULIC	1	
4		514014	SCREW-SHCS-.50-13X1.50-GR8-PLN	2	
5		53826001	FITTING-STR-8MJ-10MORB	2	
6		227235001	COUPLER - 1/2" NPT QUICK(FEMALE)	1	
7		275770001	VALVE - 3/4 MXF BALL W/T-HNDL	2	
8		1580005	HOSE CLAMP-1"	1	
9		224941001	CAP - 2" CAM LOCK	1	
10		296300850	NUT-HEXFLGTL-.38-16-G-YZ	4	
11		296308017	FITTING -T 2"MNPT X 1 1/4" MNPT X 3/4" FNPT	1	
12		646001	FITTING 3/4" MNPT X 3/4" FNPT 90 SWIVEL	1	
13		296320918	FITTING - 90 DEG 2" MNPT X 2 COUPLING	1	
14		1838001	CONNECTOR -	2	
15		1830007	HINGE PIN CABLE	1	
16		140153001	FITTING -TEE	1	
17		730011	3/4 X 1/2 HEX BUSHING	1	
18		53832001	1/2M PIPE-#8M JIC 90 DEG.	1	
19		225839001	FITTING-STR-12HB-12MNPT-POLY	1	
20		296327019	FITTING-45 DEGREE 1/4" STREET ELBOW	1	

Components-Water Pump-15 GPM W/FM Fig 7-1z01

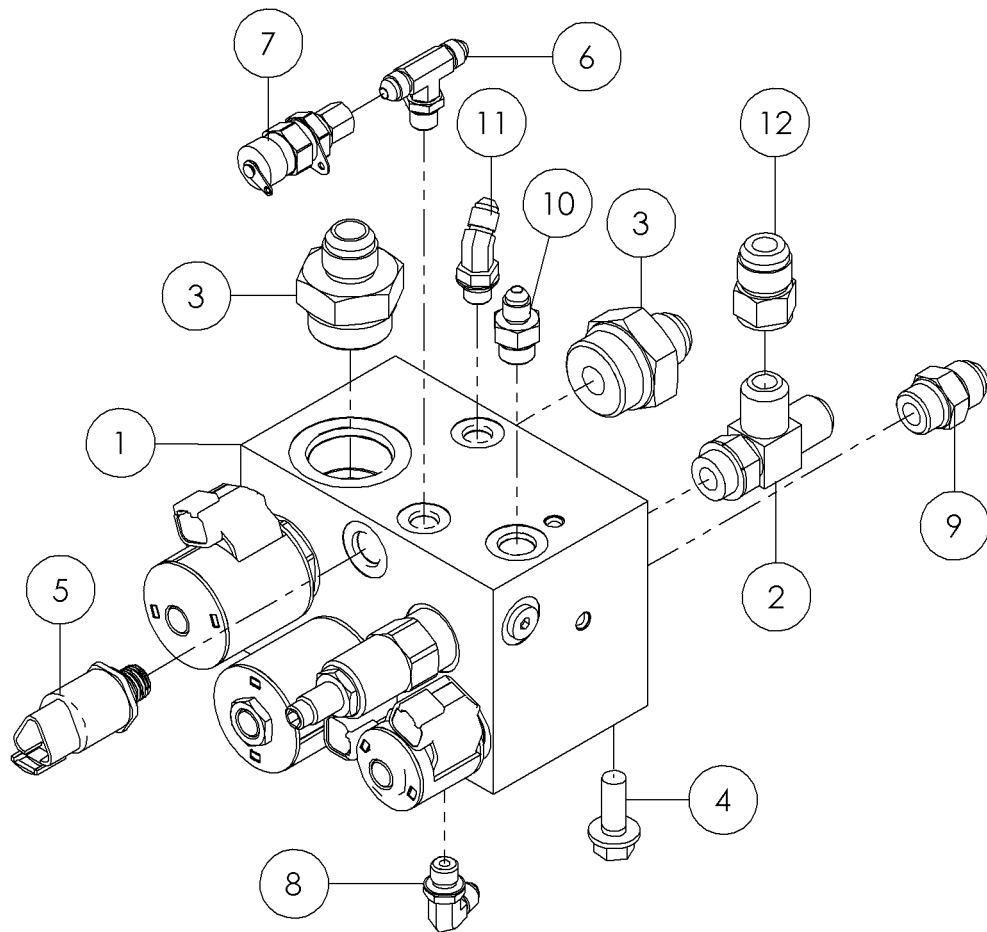


Components-Water Pump-15 GPM W/FM Fig 7-1z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		218416013	SEAT-VALVE	8	
2		218416025	VALVE CAGE	8	
3		229367027	DISC AND SPRING ASSEMBLY	8	
4		248507017	CUP - 1-5/8" HSN EMEARALITE COATED	4	
5		224667005	PACKING HOLDER 1 5/8	4	
6		224667003	CYLINDER 1 5/8	4	
7		218416049	UMBRELLA	4	
8		218416047	WASHER-UMBRELLA	4	
9		229367039	PACKING WASHER	4	
10		296302266	GASKET - VALVE COVER	4	
11		218416035	SEAL RING 38-5	4	
12		218416011	VALVE COVER	4	
13		218416007	CLAMP	2	
14		296302267	CAP SCREW - HEX HEAD	4	
15		229367041	CAPSCREW-HEX HD 5/16-18X1 1/2	4	
16		218416033	O-RING-2 1/8"OD X 1/16	4	
17		229367029	O-RING 1.1875 OD X .125	12	
18		218416043	O-RING-11/16 OD X9/16ID-1/16	4	
19		236318059	WASHER-7/16 BELLEVILLE	4	
		296308168	PUMP-WATER 15 GPM		Inc. All Items In Figure.

Water Valve-15 GPM Fig 7-2

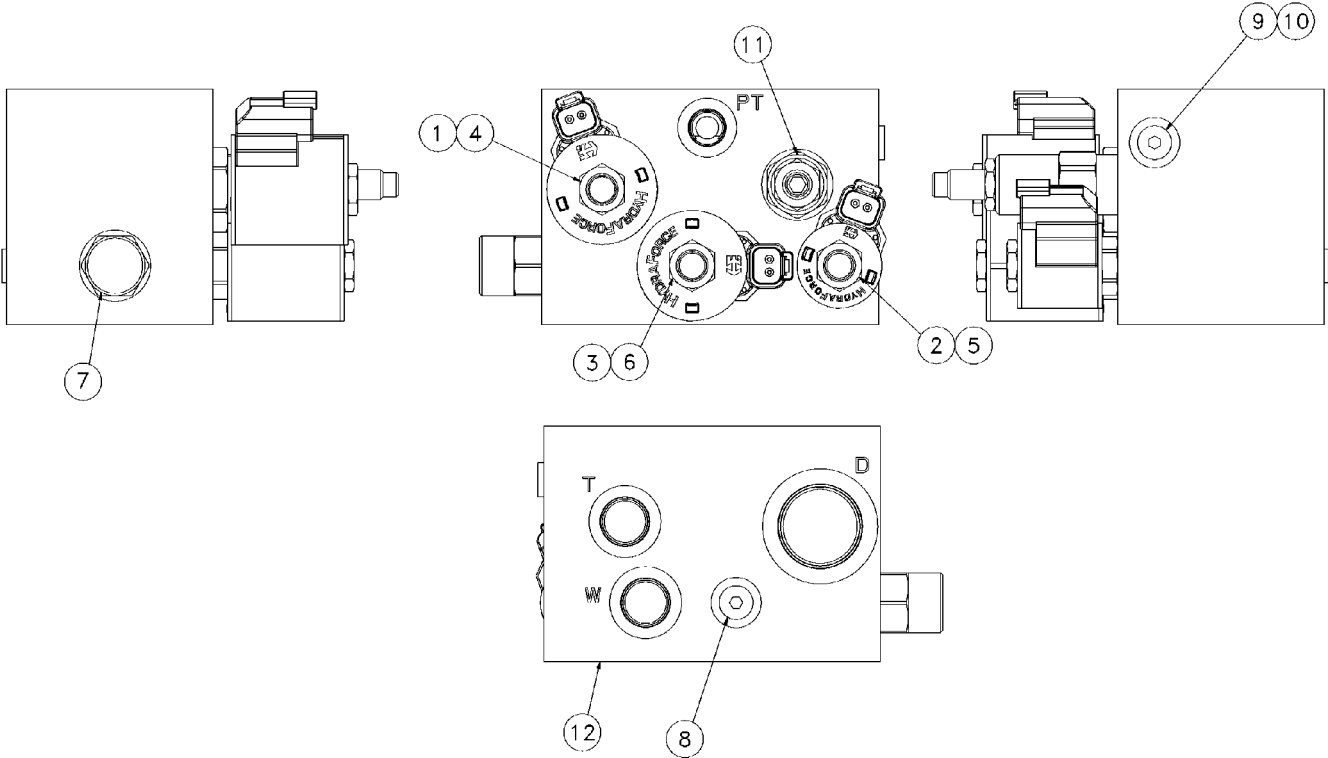
Illustration No. 296319071



Water Valve-15 GPM Fig 7-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296308177	VALVE - WATER CONTROL 15 GPM	1	Breakdown Fig. 7-2z01
2		81705001	FITTING-8MX8M JIC(RUN)X8M JIC	1	
3		101508001	FITTING-16MOR X 10MJIC STR.	2	
4		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	2	
5		296276082	TRANSDUCER 6000 PSI HYDAC	1	
6		81343001	4M (BCH)X4M JICX4M JIC TEE	1	
7		83015001	FITTING-4F JIC DIAGNOSTIC	1	
8		59423001	90-4MORBA-4MJ	1	
9		53824001	FITTING-#8M O-RING-#8M JIC ST.	1	
10		57968001	FITTING-STR-4MJ-6MORB	1	
11		58295001	FITTING-4M OR X 4M JIC 45 DEG.	1	
12		130648001	*FITTING-8FJICX10MJIC REDUCER	1	

Components-Water Valve-15 GPM Fig 7-2z01

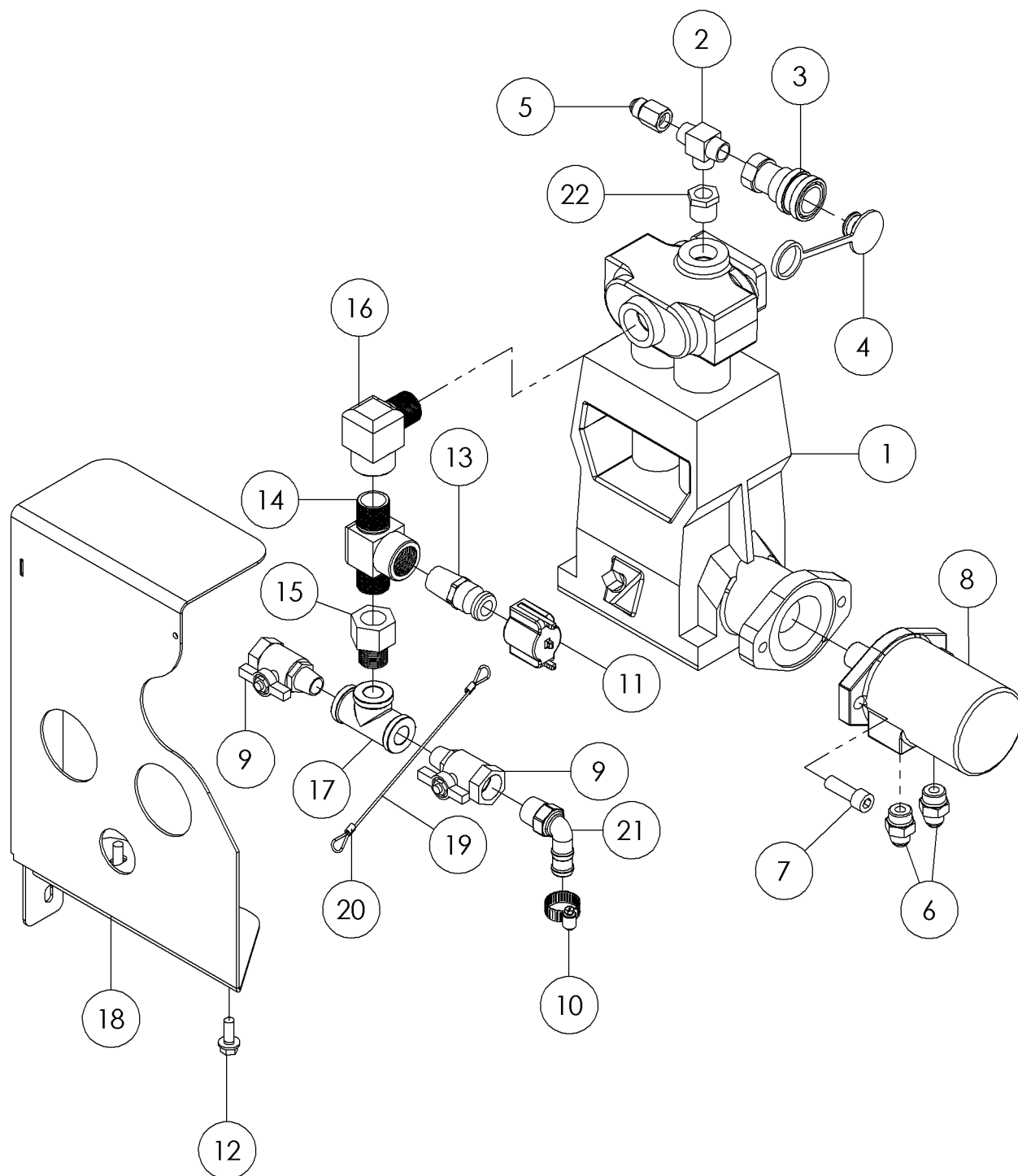


Components-Water Valve-15 GPM Fig 7-2z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272890	CARTRIDGE (NO COIL)	1	
1		282520008	SEAL KIT	1	
2		296251079	VALVE - SOLENOID 3-WAY	1	
2		296251057	SEAL KIT	1	
3		296302264	CARTRIDGE VALVE	1	
3		296271089	SEAL KIT	1	
4		296271077	COILS	1	
5		296271115	COIL	1	
6		163177001	COIL	1	
7		180007011	CARTRIDGE-PRESSURE COMPENSATOR	1	
7		251118005	SEAL KIT	1	
8		296251099	CHECK VALVE	1	
8		296251060	SEAL KIT	1	
9		296273303	ORIFICE-HF .040 PLUG	1	
10		240324011	PLUG-SAE	6	
11		296265595	SEAL KIT	1	
11		296338763	RELIEF VALVE	1	
12			BLOCK	1	Not Available.
		296308177	VALVE - WATER CONTROL 15 GPM		Inc. All Items In Figure.

Water Pump-9 GPM W/FM Fig 7-3

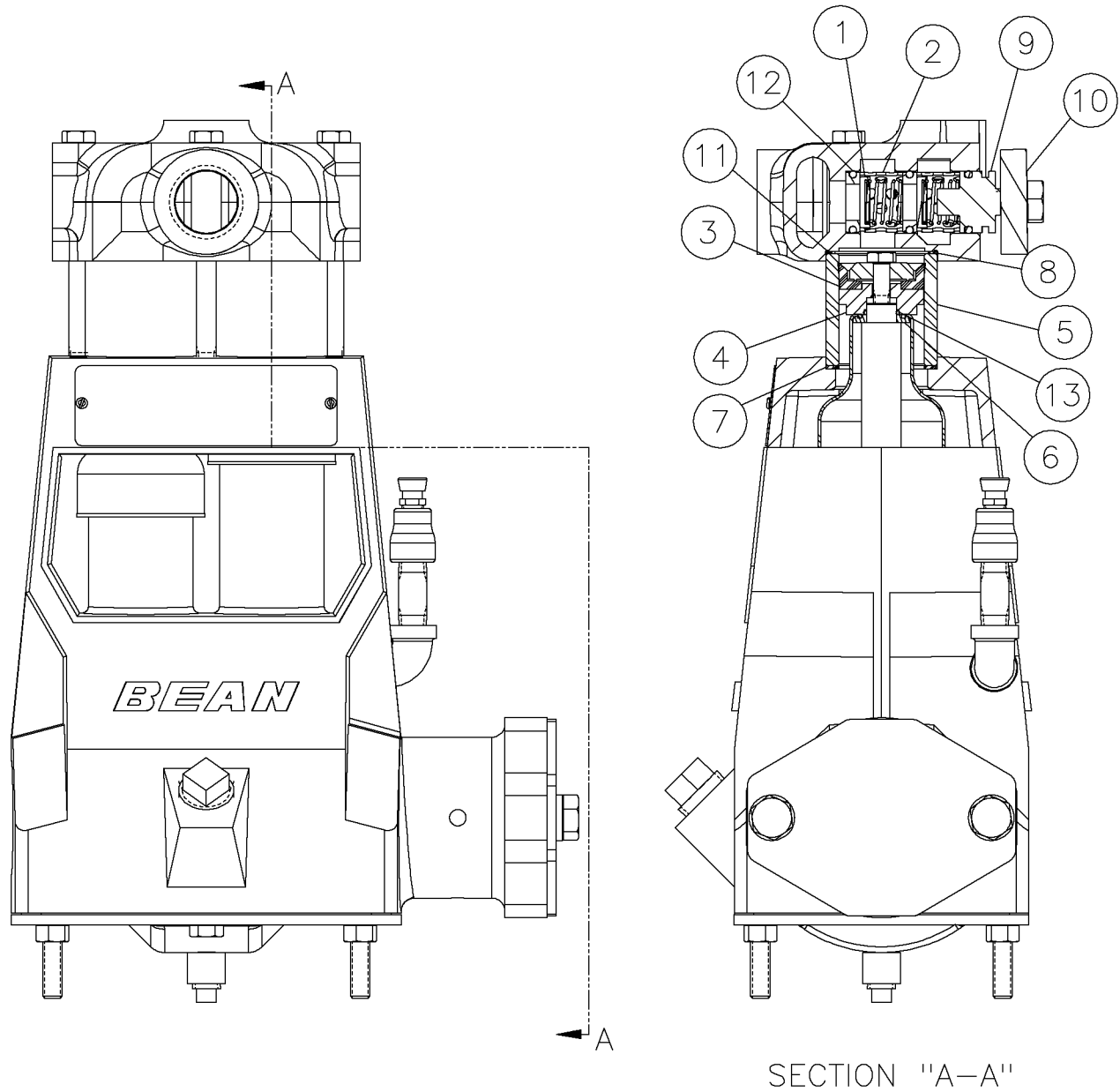
Illustration No. 296308102



Water Pump-9 GPM W/FM Fig 7-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296308169	*PUMP-WATER 9 GPM	1	Breakdown Figure 7-3z01
2		130980001	*FITTING-1/2 MALE PIPE TEE	1	
3		227235001	COUPLER-1/2"NPT QUICK(FEMALE)	1	
4		234679001	CAP-DUST	1	
5		60827001	1/2FX8M JIC STR ADAPTER	1	
6		53826001	#10M O-RING-#8M JIC ST.	1	
7		514014	1/2-13X1 1/2" SOCKET HEAD BOLT	2	
8		296308194	MOTOR - 2.2 CID	2	
9		275770001	VALVE - 3/4 MXF BALL W/T-HNDL	1	
10		1580005	HOSE CLAMP - 1"	2	
11		231152001	CAP-1"MALE CAM LEVER (POLY)	1	
12		296300772	SCREW-HFS-.38-16X1.00-GR8-YZ	1	
13		905432001	FITTING-1"MALE THRD. CAM LOCK	4	
14		296258508	FITTING - BTEE - 16MNPT - 16MNPT - 16FNPT	1	
15		296258509	FITTING - STR - 12MNPT - 16FNPT	1	
16		4002001	1 M X 1 FS 90 DEG EL	1	
17		111484001	FITTING-3/4"FEMALE PIPE TEE	1	
18		296320909	COVER - WATER PUMP	1	
19		142954001	CABLE-.068DIA.NYLON CT.-36.00	1	
20		142423001	CRIMP-CABLE (FOR.068DIA.CABLE)	1	
21		225845001	HOSE INSERT-3/4X3/4 MPT 90POLY	2	
22		730011	*3/4"X1/2" HEX BUSHING STEEL ZNC PLTD	1	

Components-Water Pump-9 GPM W/FM Fig 7-3z01

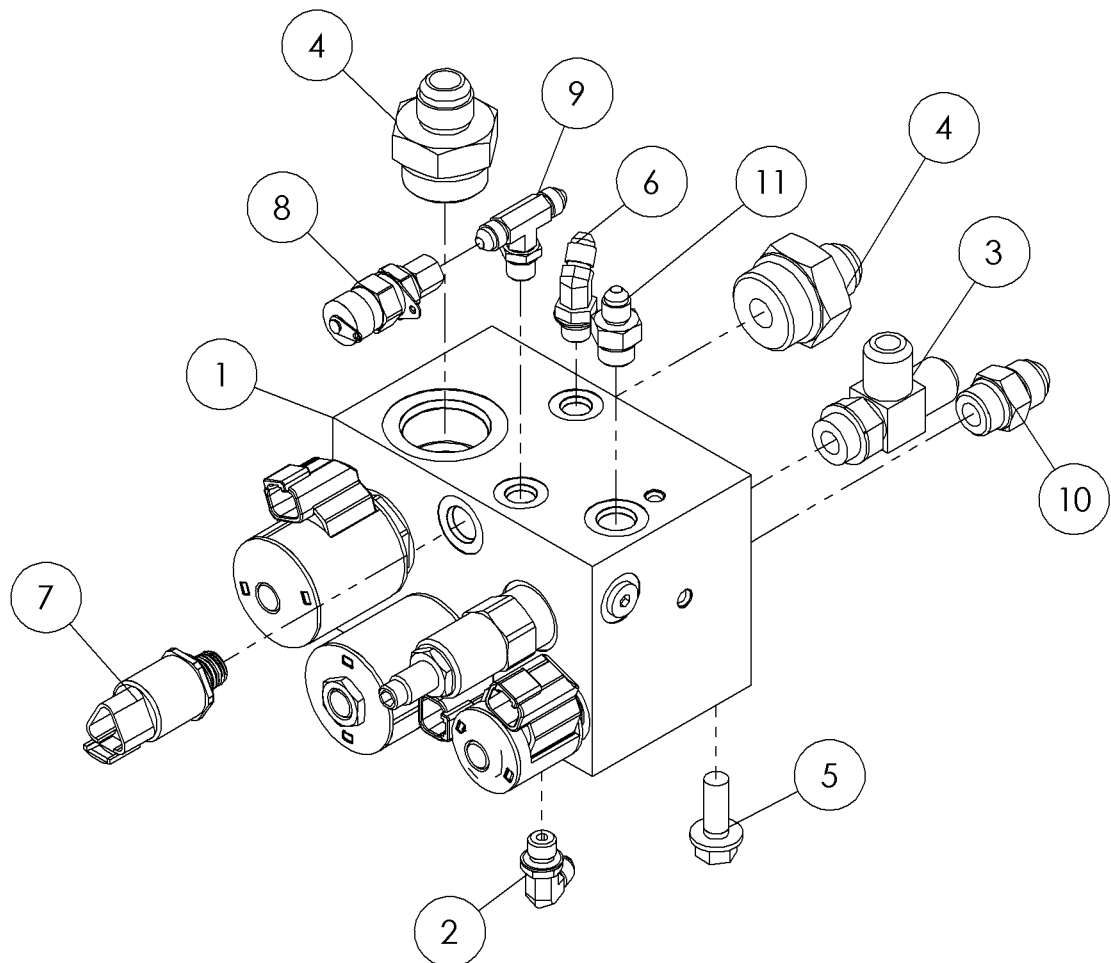


Components-Water Pump-9 GPM W/FM Fig 7-3z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		229367027	DISC AND SPRING ASSEMBLY	4	
2		218416025	VALVE CAGE	4	
3		248507017	CUP - 1-5/8" HSN EMEARALITE COATED	2	
4		224667005	PACKING HOLDER 1 5/8	2	
5		224667003	CYLINDER 1 5/8	2	
6		218416047	WASHER-UMBRELLA	2	
7		296302266	GASKET - VALVE COVER	2	
8		218416035	SEAL RING 38-5	2	
9		218416011	VALVE COVER	2	
10		218416007	CLAMP	1	
11		218416033	O-RING-2 1/8"OD X 1/16	2	
12		229367029	O-RING 1.1875 OD X .125	6	
13		218416043	O-RING-11/16 OD X9/16ID-1/16	2	
		296308169	PUMP-WATER 9 GPM		Inc. All Items In Figure.

Water Valve-9 GPM Fig 7-4

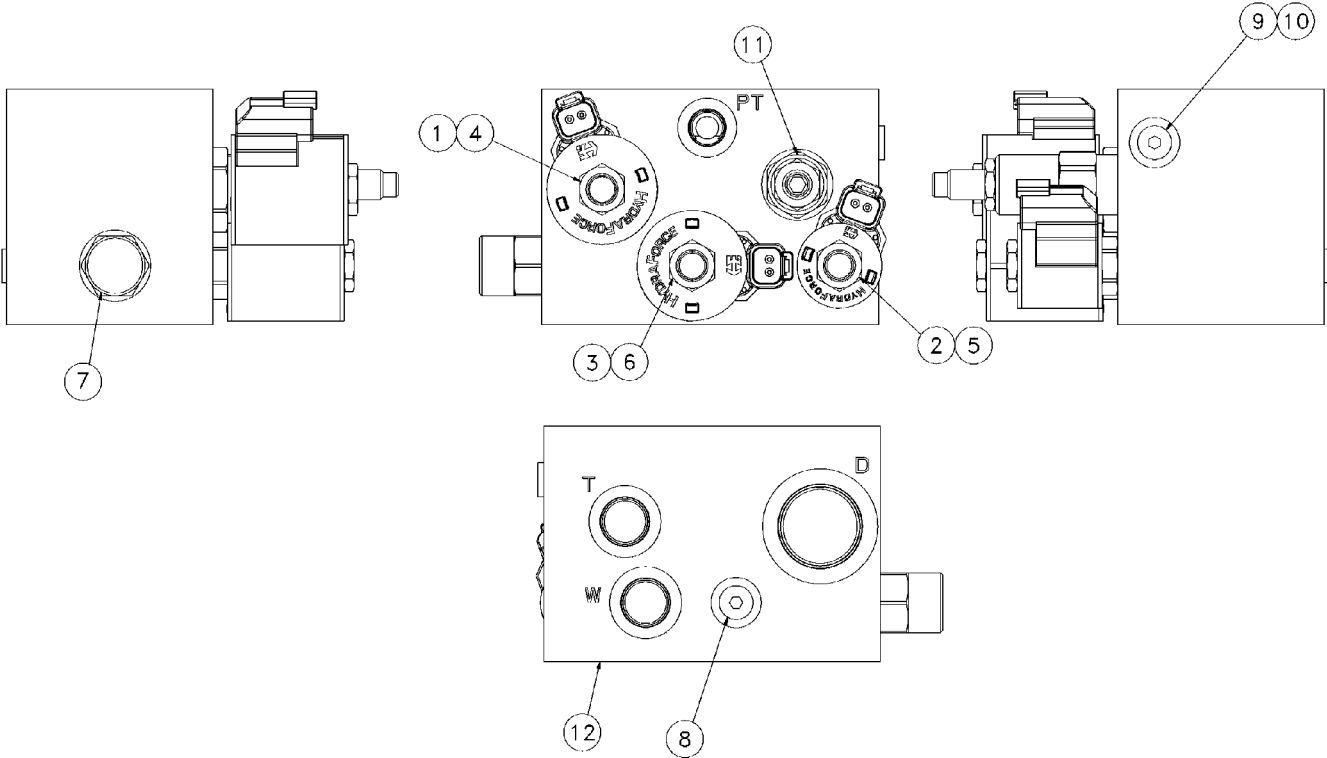
Illustration No. 296319072



Water Valve-9 GPM Fig 7-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296308185	VALVE - WATER CONTROL 9 GPM	1	Breakdown Fig. 7-4z01
2		59423001	90-4MORBA-4MJ	1	
3		81705001	FITTING-8MX8M JIC(RUN)X8M JIC	1	
4		101508001	FITTING-16MOR X 10MJIC STR.	2	
5		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	2	
6		58295001	FITTING-4M OR X 4M JIC 45 DEG.	1	
7		296276082	TRANSDUCER 6000 PSI HYDAC	1	
8		83015001	FITTING-4F JIC DIAGNOSTIC	1	
9		81343001	4M (BCH)X4M JICX4M JIC TEE	1	
10		53824001	FITTING-#8M O-RING-#8M JIC ST.	1	
11		57968001	*FITTING-STR-4MJ-6MORB	1	

Components-Water Valve-9 GPM Fig 7-4z01

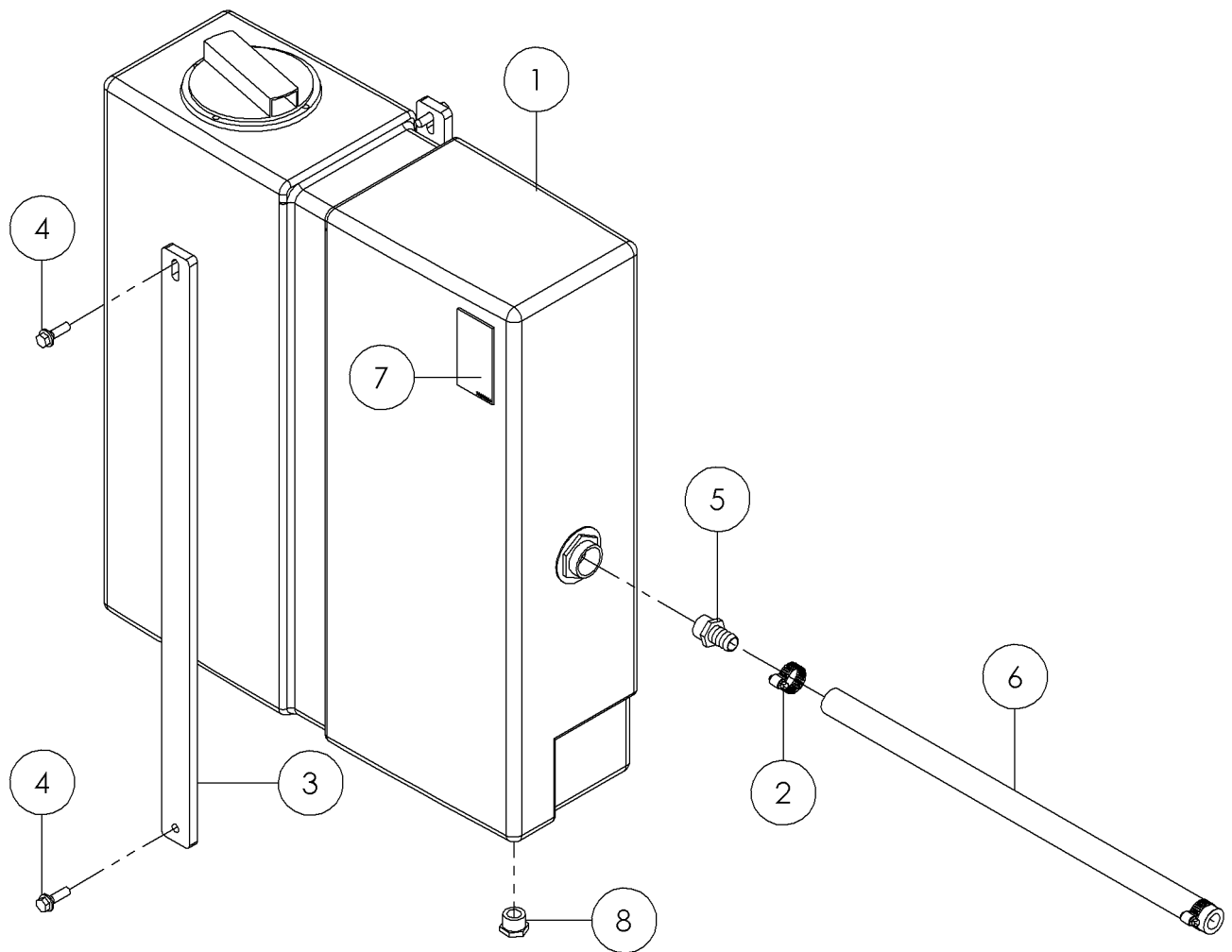


Components-Water Valve-9 GPM Fig 7-4z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296272890	CARTRIDGE (NO COIL)	1	
1		282520008	SEAL KIT	1	
2		296251079	VALVE - SOLENOID 3-WAY	1	
2		296251057	SEAL KIT	1	
3		296302264	CARTRIDGE VALVE	1	
3		296271089	SEAL KIT	1	
4		296271077	COILS	1	
5		296271115	COIL	1	
6		163177001	COIL	1	
7		180007011	CARTRIDGE-PRESSURE COMPENSATOR	1	
7		251118005	SEAL KIT	1	
8		296251099	CHECK VALVE	1	
8		296251060	SEAL KIT	1	
9		296273303	ORIFICE-HF .040 PLUG	1	
10		240324011	PLUG-SAE	6	
11		296265595	SEAL KIT	1	
11		296338764	RELIEF VALVE	1	
12			BLOCK	1	Not Available.
		296308185	VALVE - WATER CONTROL 9 GPM		Inc. All Items In Figure.

Water Tank Fig 7-5r01

Illustration No. 296299249

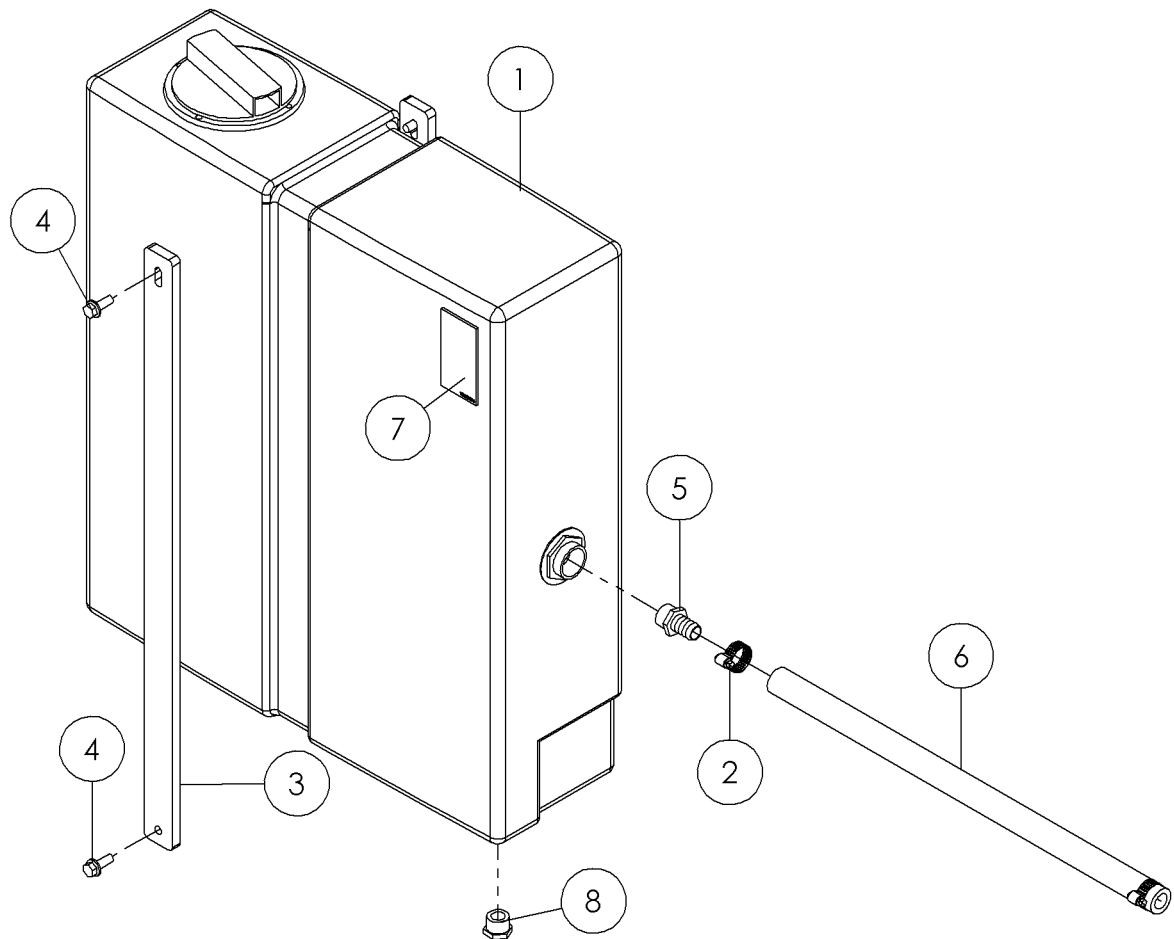


Water Tank Fig 7-5r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296320910	TANK - 25 GALLON WATER	1	
2		1580005	HOSE CLAMP - 1"	2	
3		296319006	PLATE - TANK SUPPORT	2	
4		296300773	SCREW-HFS-.38-16X1.25-GR8-YZ	4	
5		225839001	HOSE INSERT-3/4X3/4 MPT(POLY)	1	
6		296320831	HOSE - 3/4" X 24"	1	
7		7000B304	DECAL - WARNING	1	
8		78740001	PLUG- 3/4NPT PLASTIC TP-4012	1	

Water Tank Fig 7-5

Illustration No. 296299249

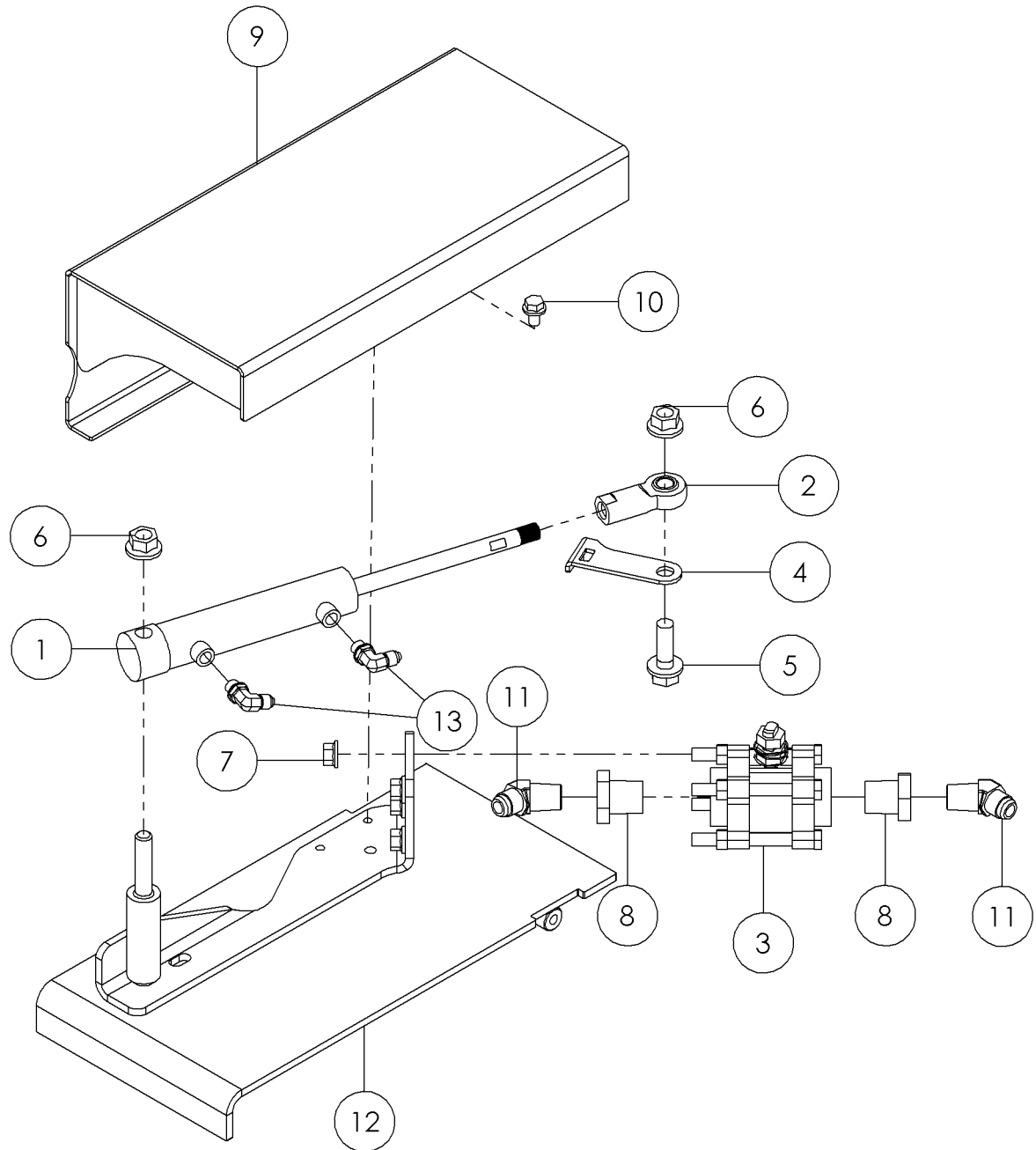


Water Tank Fig 7-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296320910	TANK - 25 GALLON WATER	1	
2		1580005	HOSE CLAMP - 1"	2	
3		296319006	PLATE - TANK SUPPORT	2	
4		296300772	SCREW-HFS-..38-16X1.00-GR8-YZ	4	
5		225839001	HOSE INSERT-3/4X3/4 MPT(POLY)	1	
6		296320831	HOSE - 3/4" X 24"	1	
7		7000B304	DECAL - WARNING	1	Domestic
7		700IB304	DECAL - WARNING	1	International
8		78740001	*PLUG- 3/4NPT PLASTIC TP-4012	1	

Water Shut-Off Cylinder Fig 7-6

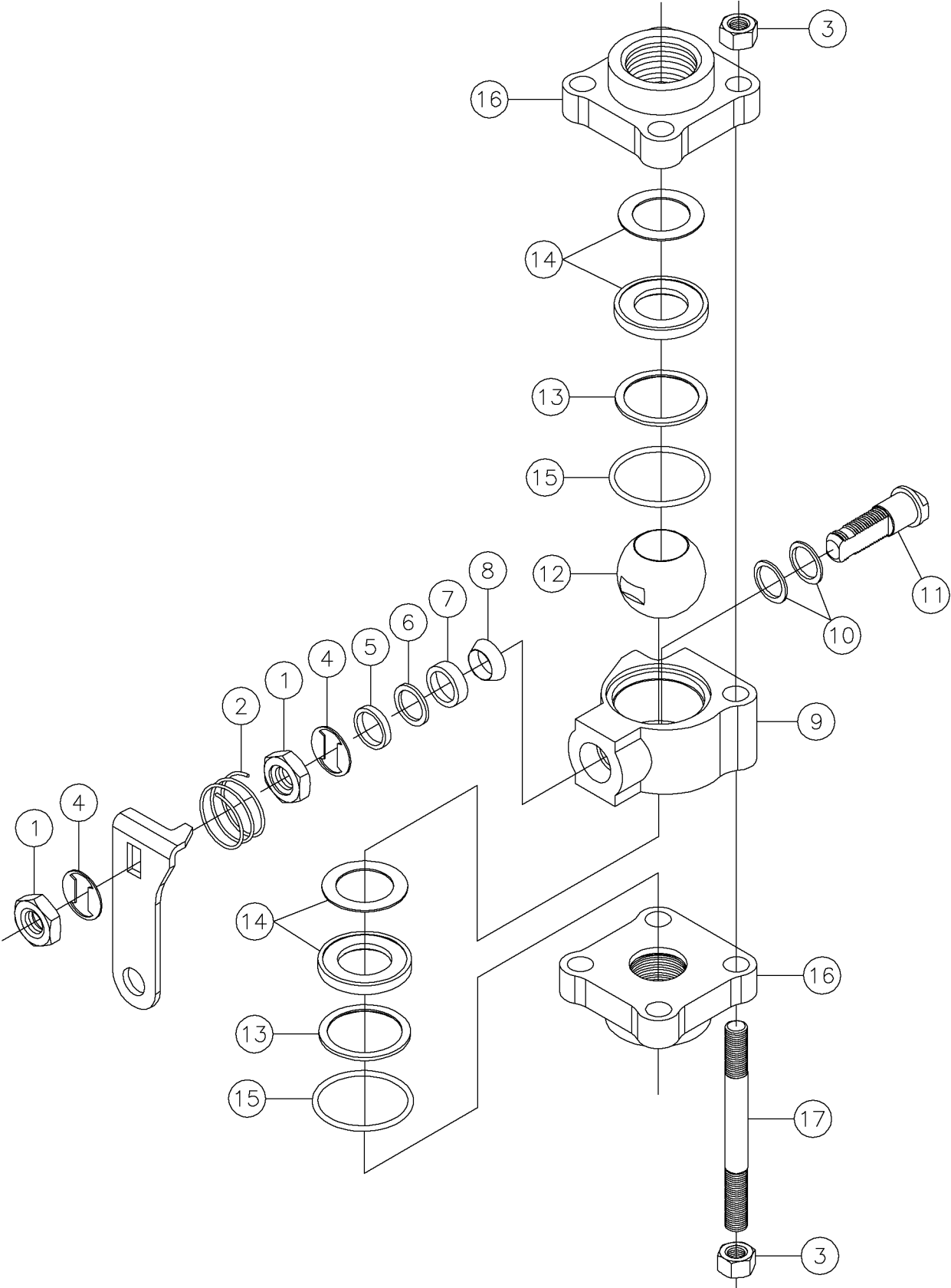
Illustration No. 296308133



Water Shut-Off Cylinder Fig 7-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296285658	CYLINDER 1 X 3-1/2	1	Breakdown Figure 7-6z02
2		224291001	BALL JOINT-1/2-20 FEMALE THDS.	1	
3		278003001	VALVE - 1" 1500 PSI BRASS BALL	1	Breakdown Figure 7-6z03
4		278002001	ARM-LEVER	1	
5		296300790	SCREW-HFS-.50-13X1.50-GR8-YZ	1	
6		296300851	NUT-HEXFLGTL-.50-13-G-YZ	2	
7		296300850	NUT-HEXFLGTL-.38-16-G-YZ	4	
8		730015	1" X 1/2" HEX BUSHING STEEL	2	
9		296308163	WELDMENT - BALL VALVE COVER	1	
10		296300859	SCREW-HFS-.31-18X.50-GR8-YZ	2	
11		63309001	1/2MX8M JIC 45 DEG ELBOW	2	
12		296308173	WELDMENT - BALL VALVE MOUNT	1	
13		59423001	90-4MORBA-4MJ	2	

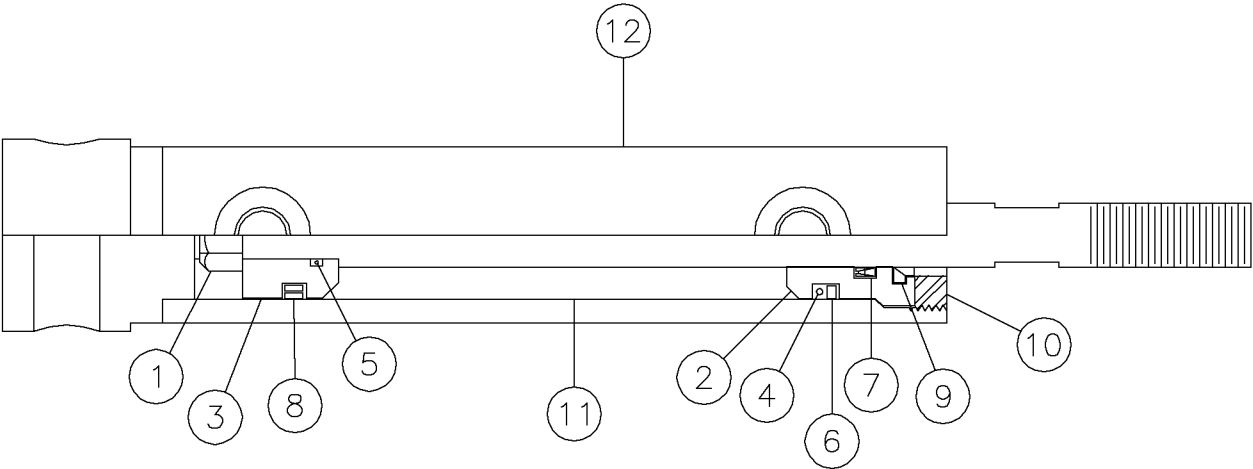
Components-Water Shut-Off Valve Fig 7-6z01



Components-Water Shut-Off Valve Fig 7-6z01

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	
		245079039	KIT-MAINTENANCE		(Include Ref. 4-6, 10 & 15)
		278003001	VALVE - 1" 1500 PSI BRASS BALL		Included All Items In This Figure

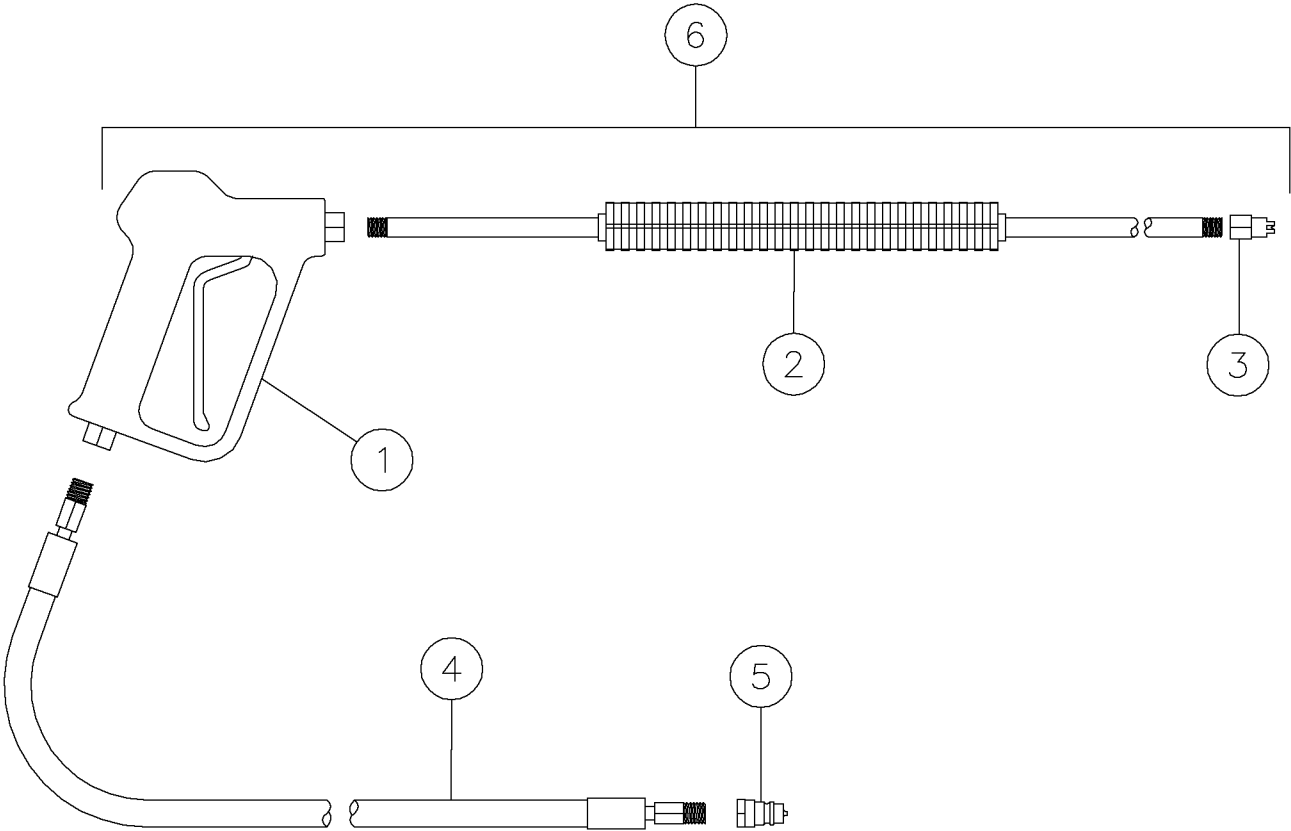
Components-Water Shut-Off Cylinder Fig 7-6z02



Components-Water Shut-Off Cylinder Fig 7-6z02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1			NUT	1	NOT SOLD SEPARATELY
2			HEAD	1	NOT SOLD SEPARATELY
3			PISTON	1	NOT SOLD SEPARATELY
4			O-RING	1	NOT SOLD SEPARATELY
5			O-RING	1	NOT SOLD SEPARATELY
6			BACKUPS	3	NOT SOLD SEPARATELY
7			BS SEAL	1	NOT SOLD SEPARATELY
8			PSP SEAL	1	NOT SOLD SEPARATELY
9			DUST SEAL	1	NOT SOLD SEPARATELY
10			COLLAR	1	NOT SOLD SEPARATELY
11		296285210	SHAFT	1	
12			BARREL WITH CLEVIS AND PORTS	1	NOT SOLD SEPARATELY
		296285658	CYLINDER 1 X 3 1/2		Include All Items In This Figure
		296285211	SEAL KIT		Include Items 4 thru 9

Wand Fig 7-7

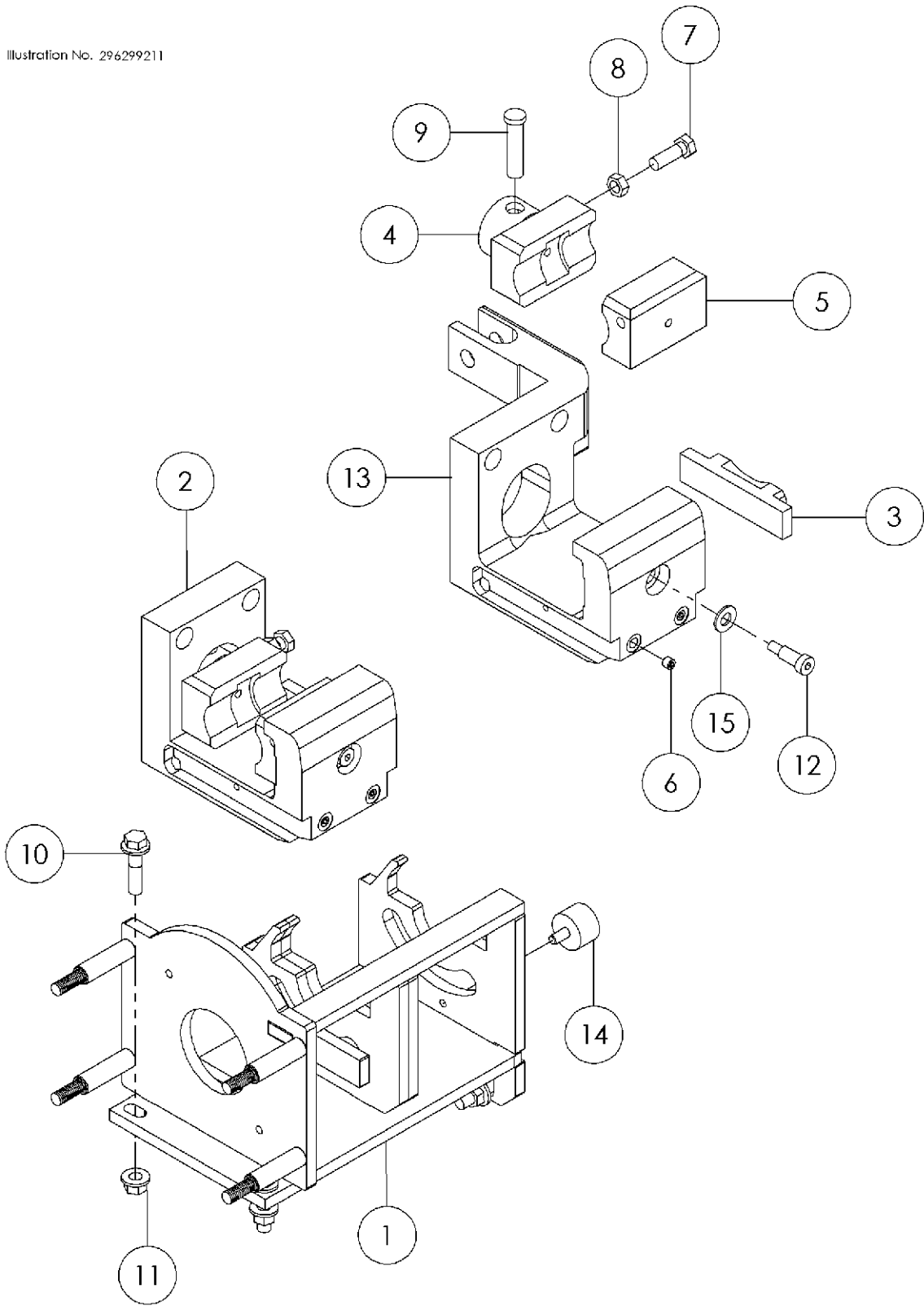


Wand Fig 7-7

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		Includes All Items In Figure

Clamp Fig 8-1

Illustration No. 296299211

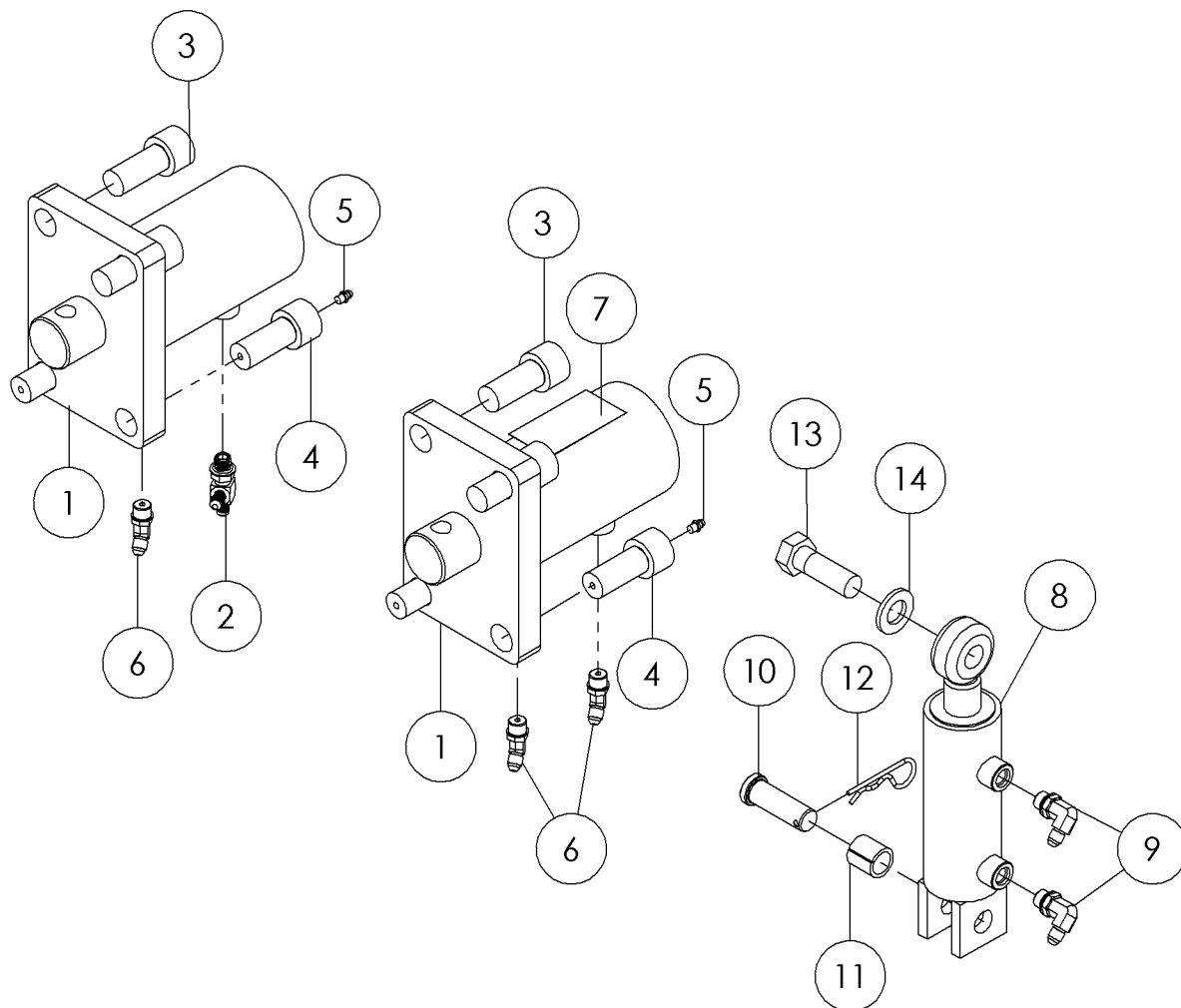


Clamp Fig 8-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296299212	WISE CLAMP FRAME WELDMENT	1	
2		236063001	CLAMP-LOWER	1	
3		232449001	PIVOT-SLIDE	2	
4		236090001	JAW-1.66 VISE	2	
5		236076001	JAW-1.66 STEM	2	
6		115222001	FITTING-1/8 NPT HEX SOCKET	4	
7		235721001	BOLT-1/2-13X1 1/2 GR8 ZINC PLT	2	
8		422001	NUT-1/2 NC HEX JAM	2	
9		240032001	PIN-.620X2 33/64 BALL LOCK	2	
10		296300792	SCREW-HFS-.50-13X2.00-GR8-YZ	4	
11		296300851	NUT-HEXFLGTL-.50-13-G-YZ	4	
12		129671001	SCREW-1/2X1 SOCKET SHOULDER	2	
13		236109001	CLAMP-UPPER	1	
14		122474001	MOUNT-SANDWICH SINGLE STUD	1	
15		485025	WASHER-1/2 FLAT-HARDENED-YZ	2	

Vise-Hydraulic Fig 8-2

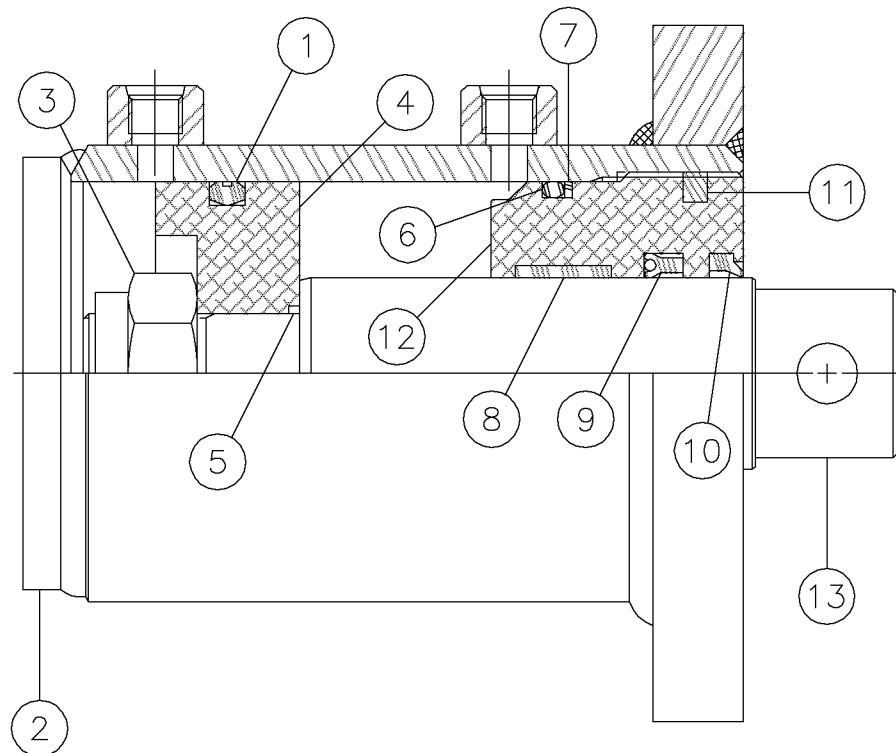
Illustration No. 296308100



Vise-Hydraulic Fig 8-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		232499001	CYLINDER-3X2 CLAMP	2	Breakdown Figure 8-2z01
2		82930001	FIT-6MX4M JICX4M JIC (RUN) TEE	1	
3		121827020	SCREW-7/8-14X2 SK.HD. CAP GR.8	4	
4		296275167	SCREW - WITH GREASE PASSAGE	4	
5		598001	FITTING-1/4" NF ST GREASE ZERK	4	
6		82931001	FITTING-45-4MJX6MORBA	3	
7		7000A864	DECAL-WARNING DOMESTIC	1	Domestic
7		700IA864	DECAL - WARNING INTERNATIONAL	1	International
8		296307461	CYLINDER-2X2.50 HYD.	1	Breakdown Figure 8-2z02
9		57950001	FITTING - 90-6MORBA-4MJ	2	
10		295015001	PIN, SAE STANDARD 3/4	1	
11		1835013	BSHG.-STL.-1 X 3/4 X 1	1	
12		1793005	HAIR PIN COTTER - .125 WIRE	1	
13		243921001	SCREW-HCS-.75-10X2.25-GR8-YZ	1	
14		235717001	WASHER - 3/4" HARDENED FLAT YZ	1	

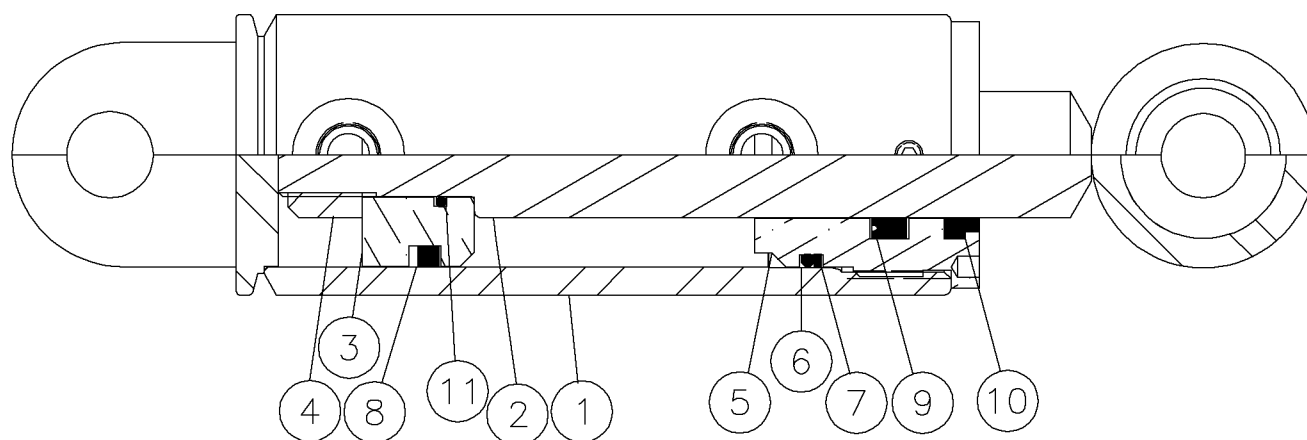
Components-Cylinder Fig 8-2z01



Components-Cylinder Fig 8-2z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		232499003	UNIRING	1	
2		232499005	TUBE WELDMENT	1	
3		140007009	LOCKNUT- 1.25-12 UNF	1	
4		232499007	PISTON	1	
5		140007011	O-RING	1	
6		215657019	O-RING	1	
7		215657023	BACKUP RING	1	
8		110188017	WEARBAND	2	
9		94488025	POLYPAK	1	
10		94488027	WIPER-ROD	1	
11		104012005	LOCKING INSERT	1	
12		232499009	HEAD GLAND	1	
13		232499011	CYLINDER ROD	1	
		232499001	CYLINDER-3X2 CLAMP		Included All Items In This Figure
		232499013	SEAL KIT		Included Ref. 1, 5-11

Components-Cylinder Fig 8-2z02

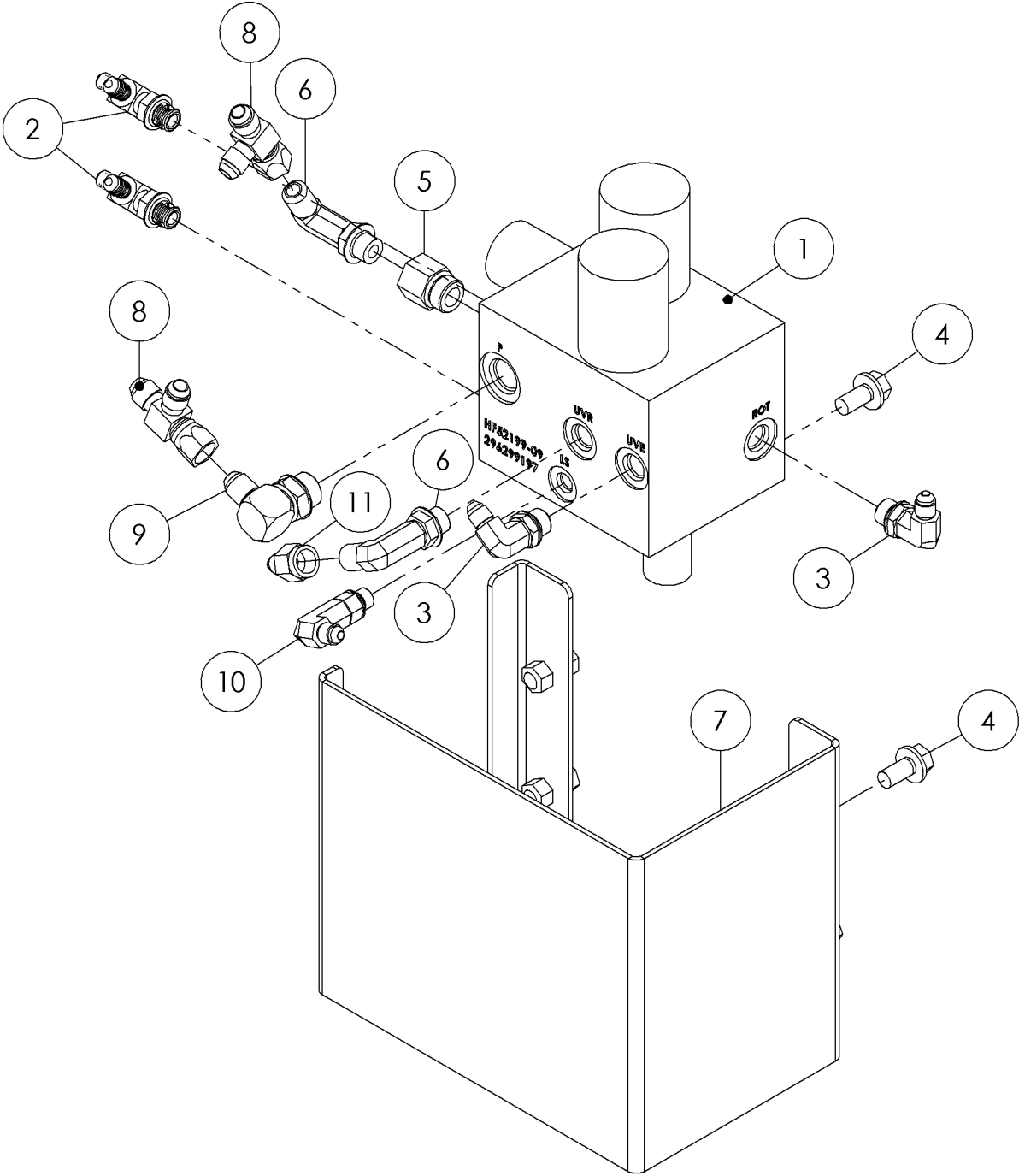


Components-Cylinder Fig 8-2z02

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1			2" HDI BARREL ASSY	1	Not Sold Separately
2		296302420	1 1/8" SHAFT ASSY	1	
3			2" PISTON 3/4" SHAFT (PSP)	1	Not Sold Separately
4			3/4" FULL LOCK NUT	1	Not Sold Separately
5			2" HDI HEAD 1 1/8" SHAFT (BSS)	1	Not Sold Separately
6			O-RING	1	Not Sold Separately
7			BACKUP	1	Not Sold Separately
8			PSP SEAL	1	Not Sold Separately
9			BS SEAL	1	Not Sold Separately
10			DUST SEAL	1	Not Sold Separately
11			O-RING	1	Not Sold Separately
		296307461	CYLINDER-2X2.50 HYD.		Include All Items In Figure
		296302421	REPAIR KIT		Include Ref.'s 6-11.

Vise-Valve Fig 8-3

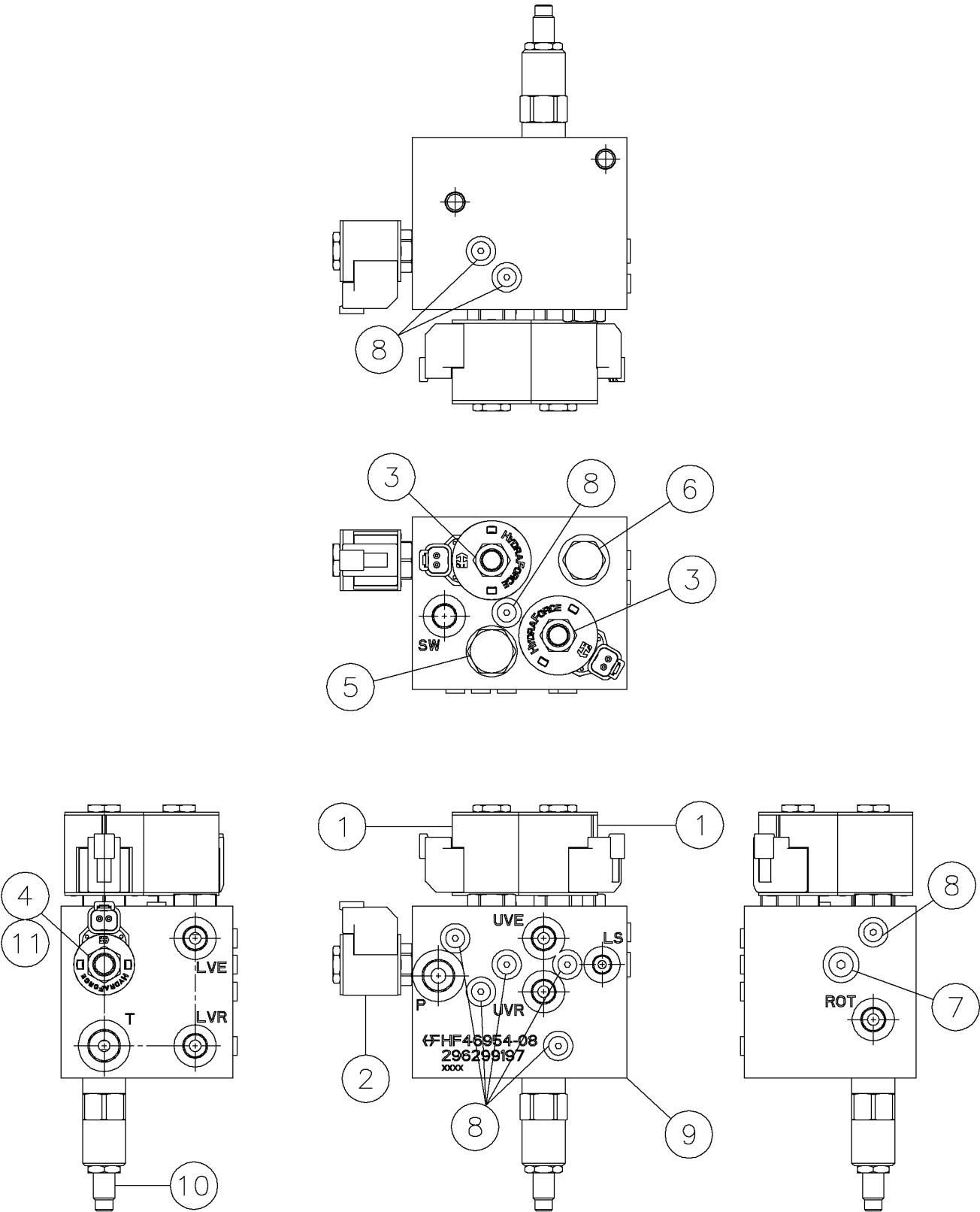
Illustration No. 296319066



Vise-Valve Fig 8-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296299197	VALVE-VISE	1	Breakdown Fig. 8-3z01
2		82930001	FIT-6MX4M JICX4M JIC (BCH) TEE	2	
3		57950001	*FITTING-90-4MJ-6MORBA	2	
4		296300771	SCREW-HFS-.38-16x.75-GR8-YZ	6	
5		57951001	8M X 6F ST. ADAPTER	1	
6		65570001	*FITTING - 6MB - 6MJ 90 L	2	
7		296308182	WELDMENT - VISE VALVE SHIELD	1	
8		59427001	*FITTING-RTEE-6MJ-6FSJ-6MJ	2	
9		57954001	FITTING-90-6MJ-8MORBA	1	
10		249977001	FITTING-90-4MJ-4MORBA-L	1	
11		59928001	*FITTING-STR-4MJ-6FJ	1	

Components-Vise Valve Fig 8-3z01

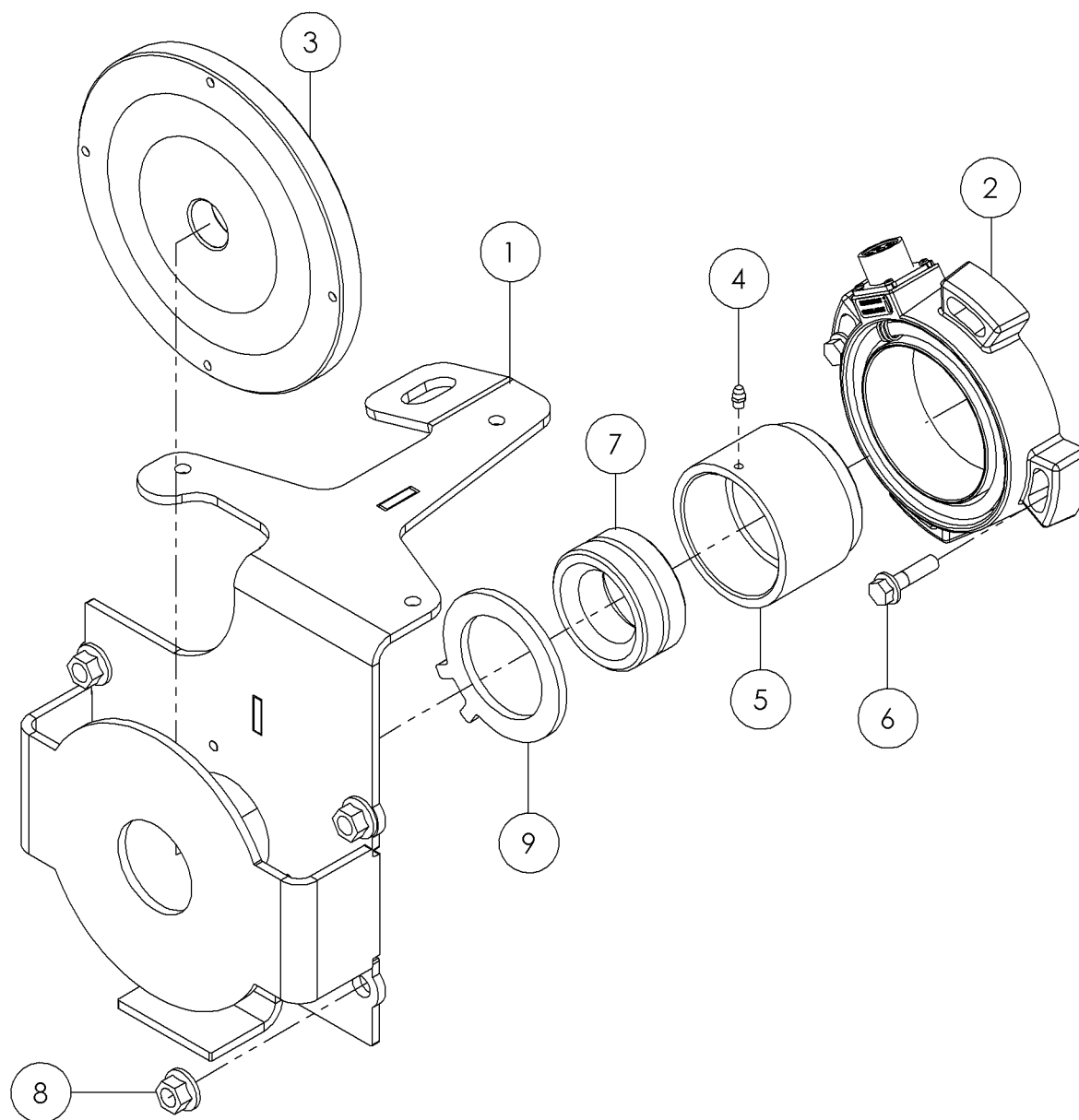


Components-Vise Valve Fig 8-3z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296265596	CARTRIDGE - SOLENOID VALVE	2	
1		296265599	SEAL KIT	1	
2		296272928	SOLENOID VALVE	1	
2		296332493	SEAL KIT	1	
3		296271077	COILS	2	
4		622733001	COIL	1	
5		296272885	DUAL CHECK VALVE	1	
5		296265599	SEAL KIT		
6		296276878	CHECK VALVE	1	
6		296332493	SEAL KIT	1	
7		296251099	CHECK VALVE	1	
7		296251060	SEAL KIT	1	
8		240324015	PLUG-SAE	9	
9			BLOCK		Not Sold Separately
10		296302395	CARTRIDGE VALVE	1	
10		296251085	SEAL KIT	1	
11		296332494	ORFICE DISC	1	
		296299196	VALVE - VISE		Inc. All Items In Figure.

Zap Alert (S/N 152-) Fig 8-4r01

Illustration No. 296308106

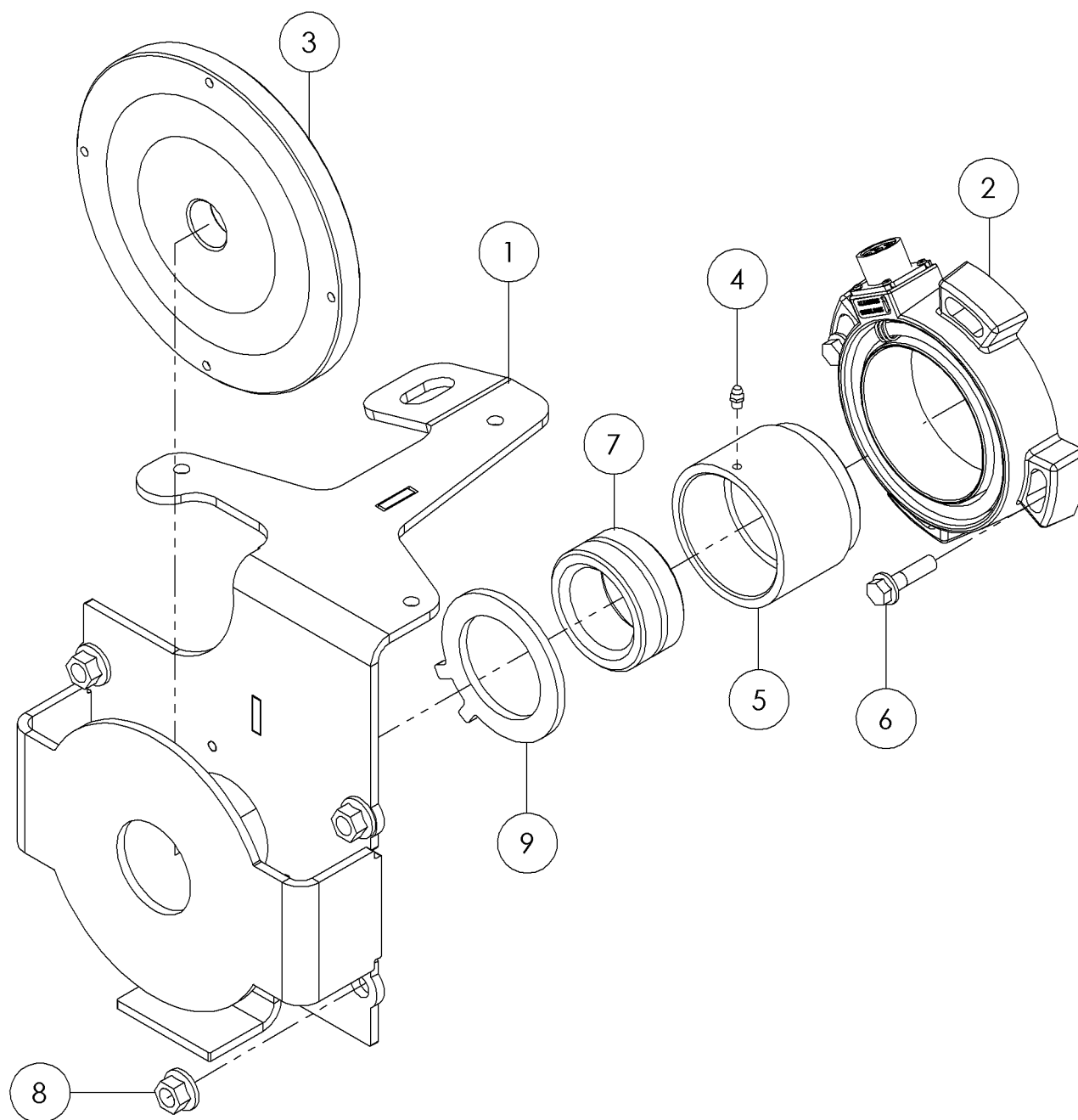


Zap Alert (S/N 152-) Fig 8-4r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296308160	MOUNT - ZAP ALERT / ROD WIPER	1	
2		296252772	STRIKE ALERT - 4" COIL ASSEMBLY 2000 TURNS	1	
3		235921001	WIPER-1.66 OD ROD	1	
4		598001	FITTING-1/4" NF ST GREASE ZERK	1	
5		296308158	TUBE - ROD GUIDE	1	
6		296300774	SCREW-HFS-.38-16X1.50-GR8-YZ	2	
7		296320687	*BUSHING - ROD GUIDE 1.66	1	(152-)
8		296300851	NUT-HEXFLGTL-.50-13-G-YZ	4	
9		296293955	PLATE - ROD GUIDE	1	

Zap Alert (S/N 101-151) Fig 8-4

Illustration No. 296308106

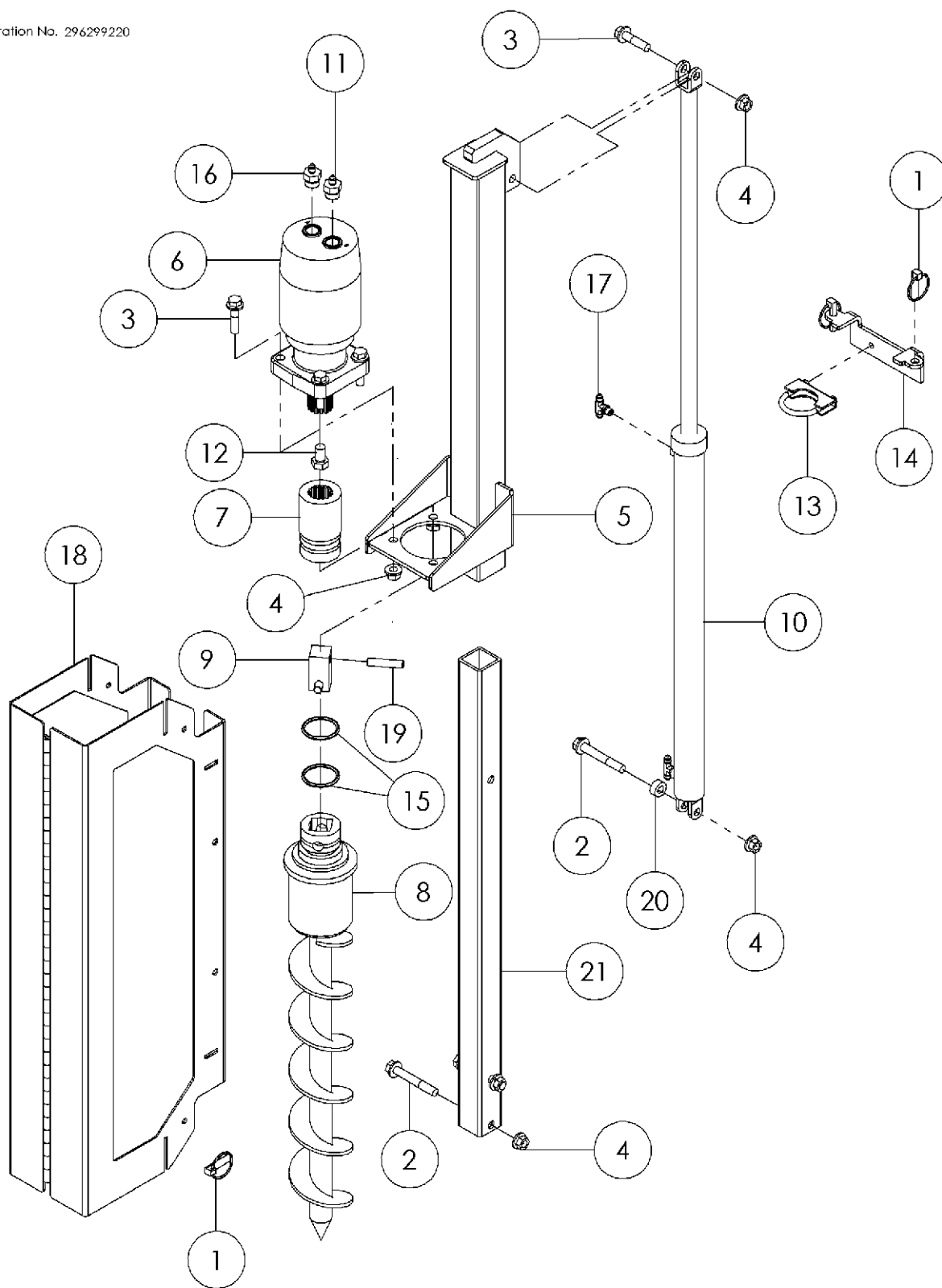


Zap Alert (S/N 101-151) Fig 8-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296308160	MOUNT - ZAP ALERT / ROD WIPER	1	
2		296252772	STRIKE ALERT - 4" COIL ASSEMBLY 2000 TURNS	1	
3		235921001	WIPER-1.66 OD ROD	1	
4		598001	FITTING-1/4" NF ST GREASE ZERK	1	
5		296308158	TUBE - ROD GUIDE	1	
6		296300774	SCREW-HFS-.38-16X1.50-GR8-YZ	2	
7		296291954	BUSHING - ROD GUIDE	1	
8		296300851	NUT-HEXFLGTL-.50-13-G-YZ	4	
9		296293955	PLATE - ROD GUIDE	1	

Stakedown-4" Fig 9-1

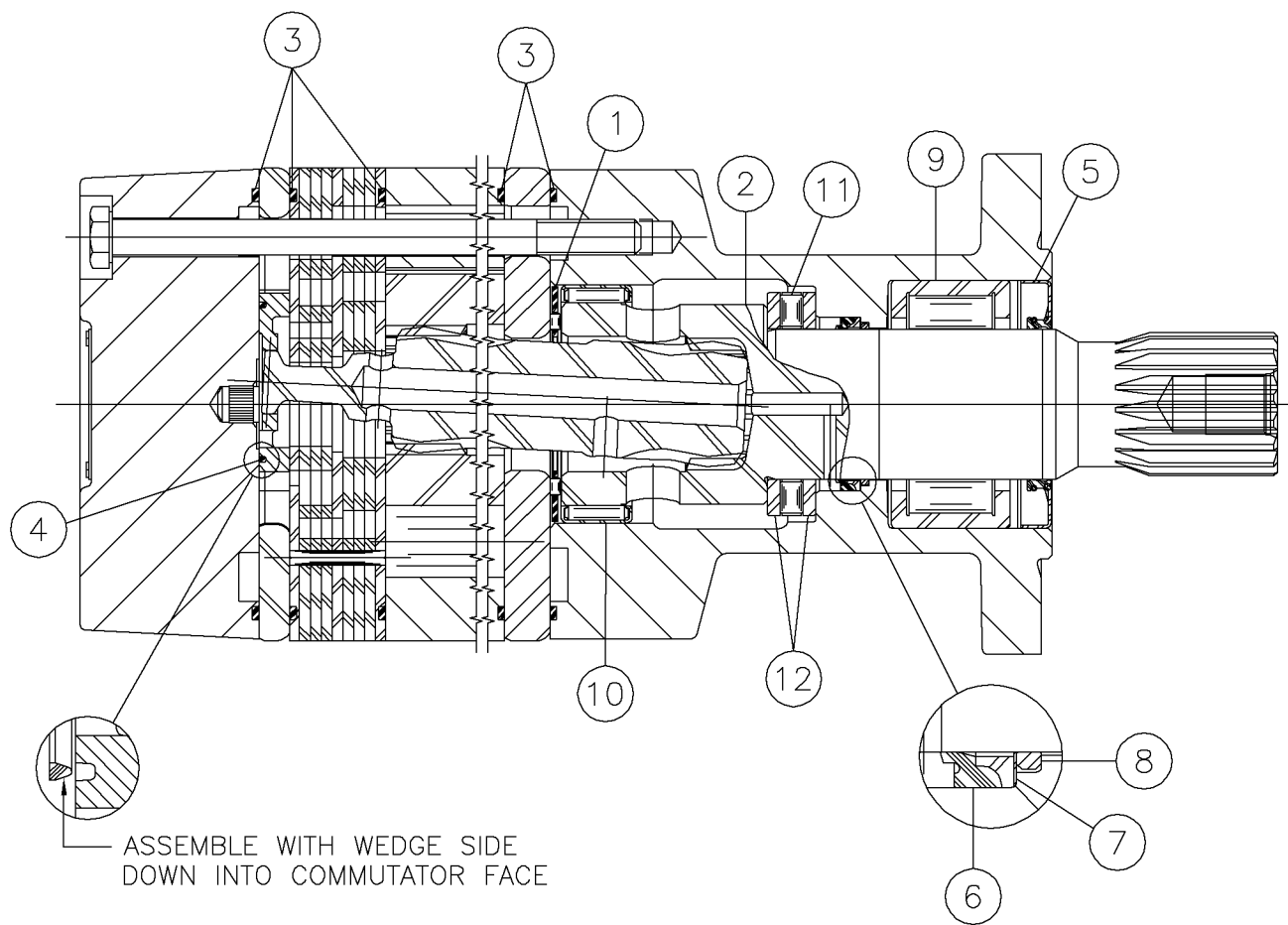
Illustration No. 296299220



Stakedown-4" Fig 9-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		1797001	PIN-QUICK TACH. 7/16X1 3/4	4	
2		296300797	SCREW-HFS-.50-13X3.50-GR8-YZ	3	
3		296300792	SCREW-HFS-.50-13X2.00-GR8-YZ	5	
4		296300851	NUT-HEXFLGTL-.50-13-G-YZ	8	
5		296299221	WELDMENT - UPPER STAKEDOWN GUIDE	1	
6		296257255	MOTOR - 20.6 CU. IN. HYD.	1	Breakdown Figure 10-1z01
7		296257177	COUPLER - STAKEDOWN	1	
8		236197001	STAKE-4" SQ. DRIVE	1	
9		236230001	BAR-STAKE DRIVE	1	
10		296285659	CYLINDER - 1-1/2 X 24	1	
11		275176001	FITTING-10MX4MJIC-.045 ORIFICE	1	
12		296257353	SCREW - HCS-.63-18X1-GR8-YZ	1	
13		2609005	MUFFLER CLAMP - 2"	1	
14		296319089	PLATE - SHIELD BRACKET	1	
15		236229001	O-RING - 329	2	
16		101507001	FITTING-10MORX4MJIC STR.	1	
17		81343001	4M (BCH)X4M JICX4M JIC TEE	2	
18		296308122	WELDMENT - STAKE DOWN SHIELD	1	
19		236200001	PIN-STAKE KEEPER	2	
20		1500003	SET COLLAR - 1/2 PLATED	1	
21		232431001	TUBE-STAKE	1	

Components-Motor Fig 9-1z01

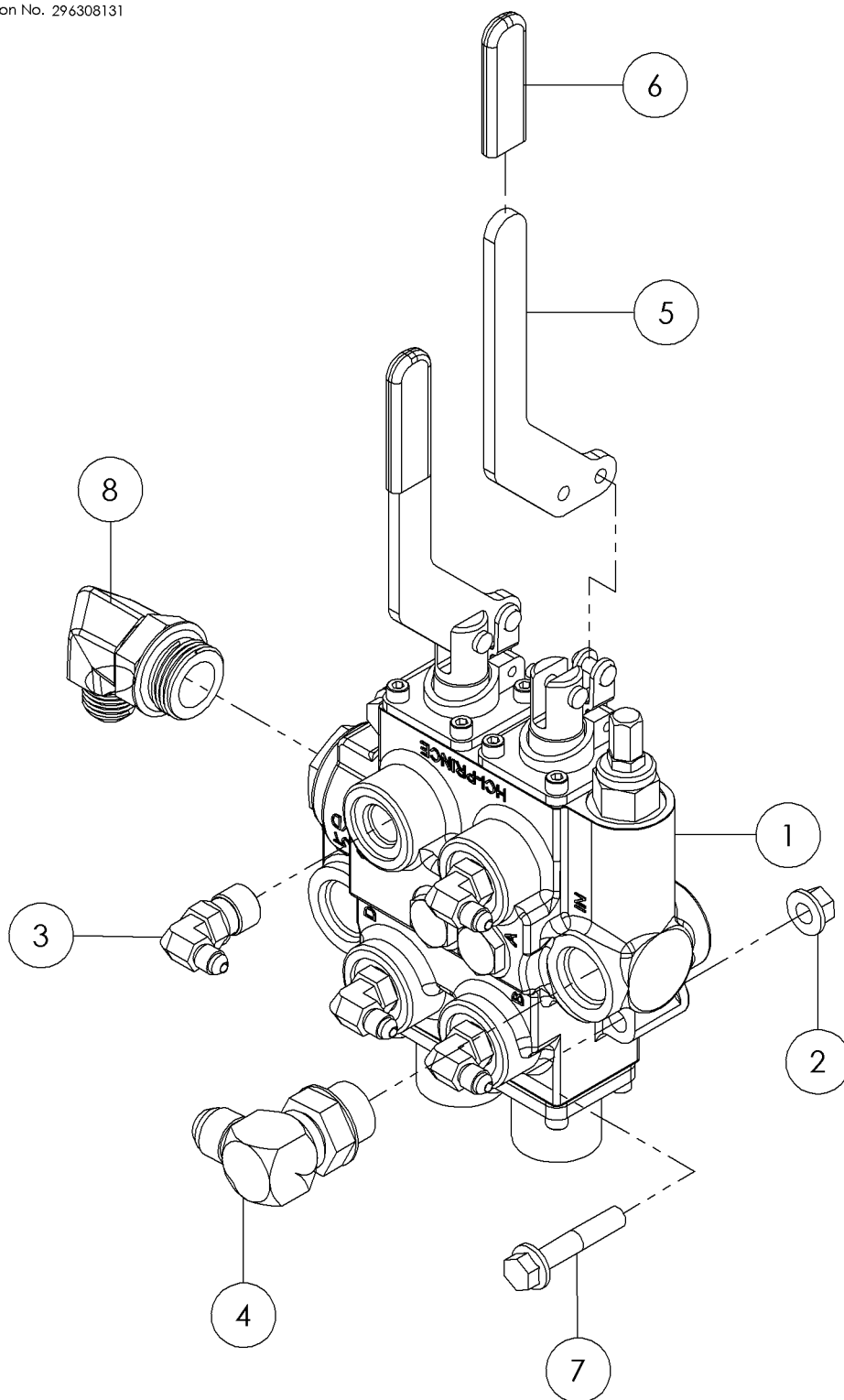


Components-Motor Fig 9-1z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		88759021	BEARING-THRUST	1	
2		296265564	SHAFT - COUPLING	1	
3			SEAL RING	1	Not Sold Separately
4			SEAL-COMMUTOR	5	Not Sold Separately
5			SEAL-D&W	1	Not Sold Separately
6			SEAL-SHAFT	1	Not Sold Separately
7			WASHER-BACKUP	1	Not Sold Separately
8			RING-BACKUP	1	Not Sold Separately
9		296265639	BEARING - FRONT RADIAL	1	
10		296265640	BEARING - REAR RADIAL	1	
11		296265641	BEARING - THRUST	1	
12		296265642	WASHER - THRUST	2	
		296257255	MOTOR - 20.6 CU. IN. HYD.		Included All Items In This Figure
		296265578	REPAIR KIT		Includes Ref. 3-8

Valve Stakedown Fig 9-2

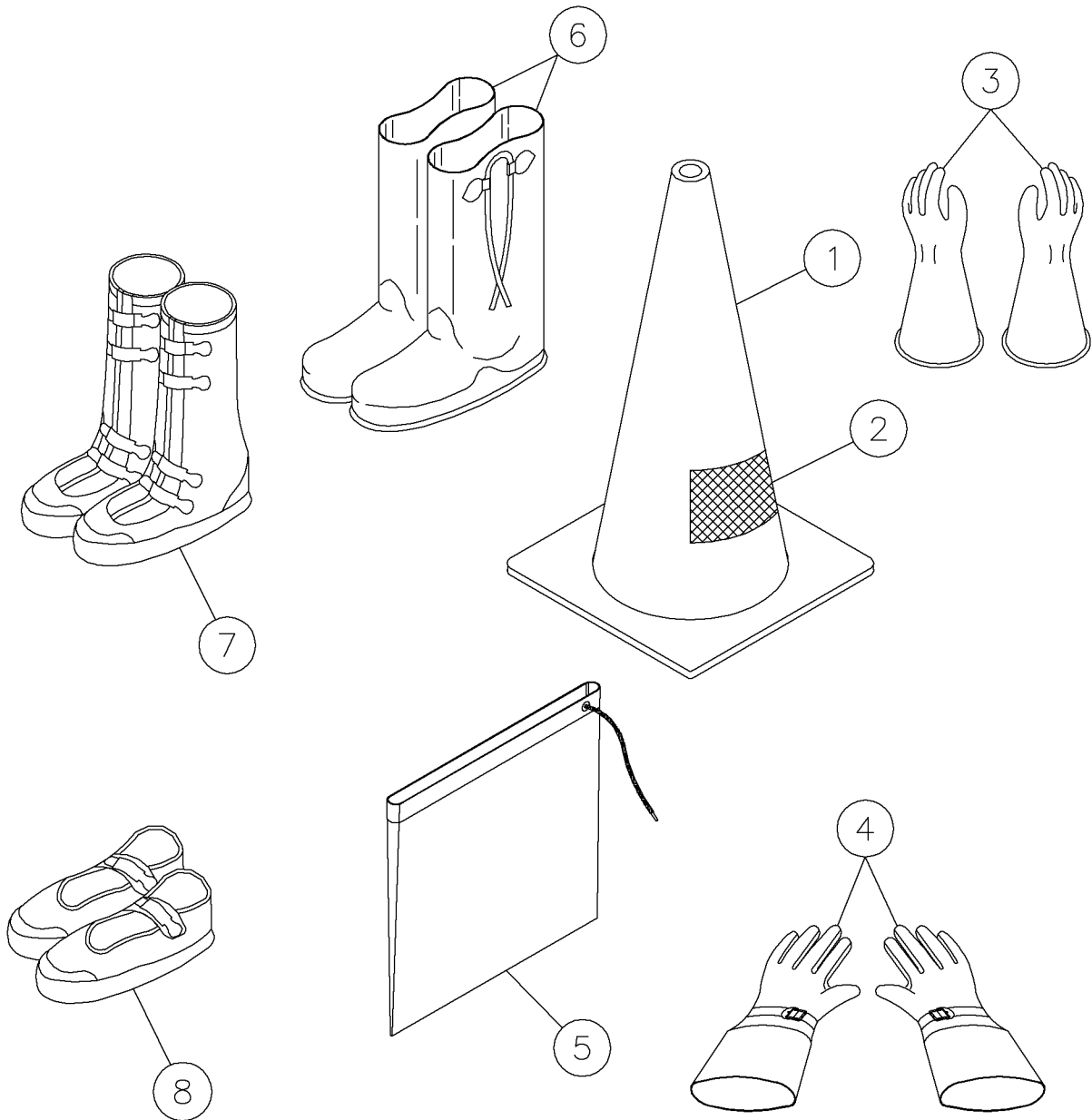
Illustration No. 296308131



Valve Stakedown Fig 9-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296319009	VALVE - 2 SECTION HYD	1	
2		296300850	NUT-HEXFLGTL-.38-16-G-YZ	3	
3		86671001	FITTING-8M ORING X4M JIC 90 EL	4	
4		59409001	10M JICX12M ADJ. 90 DEG.ELBOW	1	
5		296320826	PLATE - HANDLE	2	
6		201482001	HANDLE-BLACK PLASTIC 2 1/2"	2	
7		296300776	SCREW-HFS-.38-16X2.00-GR8-YZ	3	
8		78064001	FITTING-16MX10M JIC 90 DEG.	1	

Safety Features Gloves-Boots-Cones Fig 10-1



Safety Features Gloves-Boots-Cones Fig 10-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		277788001	WARNING CONE ASS'Y	4	Include Ref. 2
2		70000530	DECAL-DANGER	4	Domestic
2		70001530	DECAL-WARNING (NAVIGATORS)	4	International
3		210782001	GLOVES-SIZE 9 RUBBER INSULATE	1	
3		210782005	GLOVES-SIZE 9 1/2 RUBBER INSUL (PAIR)	1	
3		210782003	GLOVES-SIZE 10 RUBBER INS (PAIR)	1	
3		210782007	GLOVE-SIZE 11 RUBBER INSULATED	1	
3		210782009	GLOVE-SIZE 12 RUBBER INSULATED	1	
4		210783001	GLOVES-SIZE 9 LEATHER PROTECT (PAIR)	1	
4		210783005	GLOVES SIZE 9 1/2 LEATHER PROT (PAIR)	1	
4		210783003	GLOVES-SIZE 10 LEATHER PROTECT (PAIR)	1	
4		210783007	GLOVE-SIZE 11 LEATHER PROTECT	1	
4		210783009	GLOVE-SIZE 12 LEATHER PROTECT	1	
4		210781001	GLOVE KIT-SIZE 9	1	Inc 1 Ea: Ref No 3 & 4, (persize) & 5
4		224979001	GLOVE KIT-SIZE 9 1/2	1	Inc 1 Ea: Ref No 3 & 4, (persize) & 5
4		210785001	GLOVE KIT-SIZE 10 (PAIR)	1	Inc 1 Ea: Ref No 3 & 4, (persize) & 5
4		224990001	GLOVE KIT-SIZE 11	1	Inc 1 Ea: Ref No 3 & 4, (persize) & 5
4		224991001	GLOVE KIT-SIZE 12	1	Inc 1 Ea: Ref No 3 & 4, (persize) & 5
5		210784001	BAG-GLOVE	1	
6		210780009	BOOTS-SIZE 9 OVER-THE-SHOE	1	
6		210780001	BOOTS-SIZE 10 OVER-THE-SHOE	1	
6		210780003	BOOTS-SIZE 11 OVER-THE-SHOE	1	
6		210780005	BOOTS-SIZE 12 OVER-THE-SHOE	1	
6		210780007	BOOTS-SIZE 13 OVER-THE-SHOE	1	
6		210780011	BOOTS-SIZE 14 OVER-THE-SHOE	1	
6		210780013	BOOTS-SIZE 15 OVER-THE-SHOE	1	
6		210780015	BOOTS-SIZE 16 OVER-THE-SHOE	1	
7		279118001	BOOT - 4 BUCKLE SIZE 9	1	
7		279118002	BOOT-4 BUCKLE SIZE 10	1	
7		279118003	BOOT 4 BUCKLE SIZE 11	1	
7		279118004	BOOT - 4 BUCKLE SIZE 12	1	
7		279118005	BOOT - 4 BUCKLE SIZE 13	1	
7		279118006	BOOT - 4 BUCKLE SIZE 14	1	
7		279118007	BOOT - 4 BUCKLE SIZE 15	1	
7		279118008	BOOT - 4 BUCKLE SIZE 16	1	
8		279119001	BOOT - ANKLE RUBBER SIZE9	1	
8		279119002	BOOT - ANKLE RUBBER SIZE 10	1	
8		279119003	BOOT - ANKLE RUBBER SIZE 11	1	
8		279119004	BOOT - ANKLE RUBBER SIZE 12	1	
8		279119005	BOOT - ANKLE RUBBER SIZE 13	1	
8		279119006	BOOT - ANKLE RUBBER SIZE 14	1	
8		279119007	BOOT - ANKLE RUBBER SIZE 15	1	
8		279119008	BOOT - ANKLE RUBBER SIZE 16	1	
Note			All Gloves & boots Are Ordered As Pair		

Voltage Stake (Deleted) Fig 10-2

DELETED DUE TO UPDATE

Voltage Stake (Deleted) Fig 10-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
			Deleted Due To Udated		

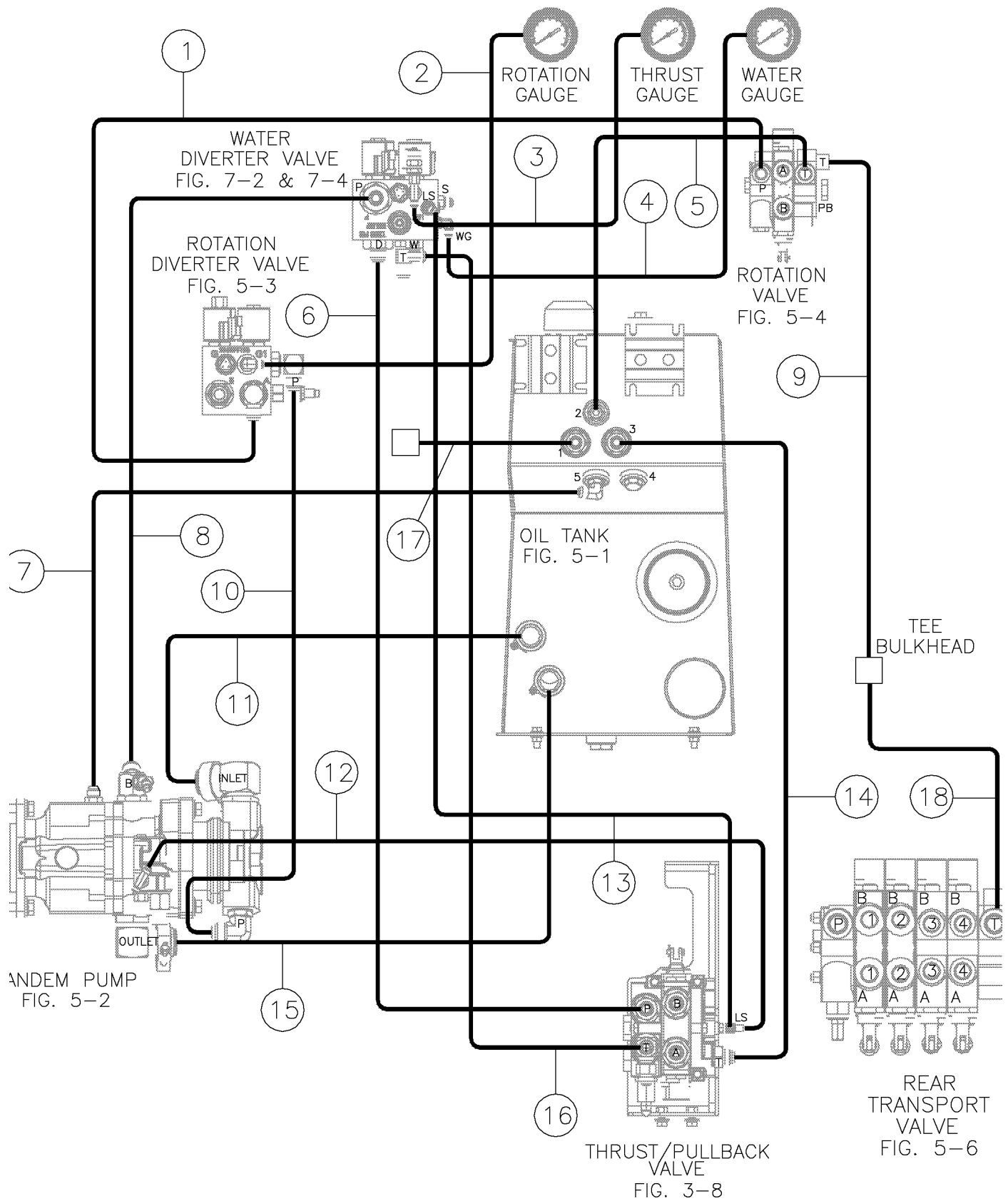
Components-Voltage Stake (Deleted) Fig 10-2z01

DELETED DUE TO UPDATE

Components-Voltage Stake (Deleted) Fig 10-2z01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
			Deleted Due To Udated		

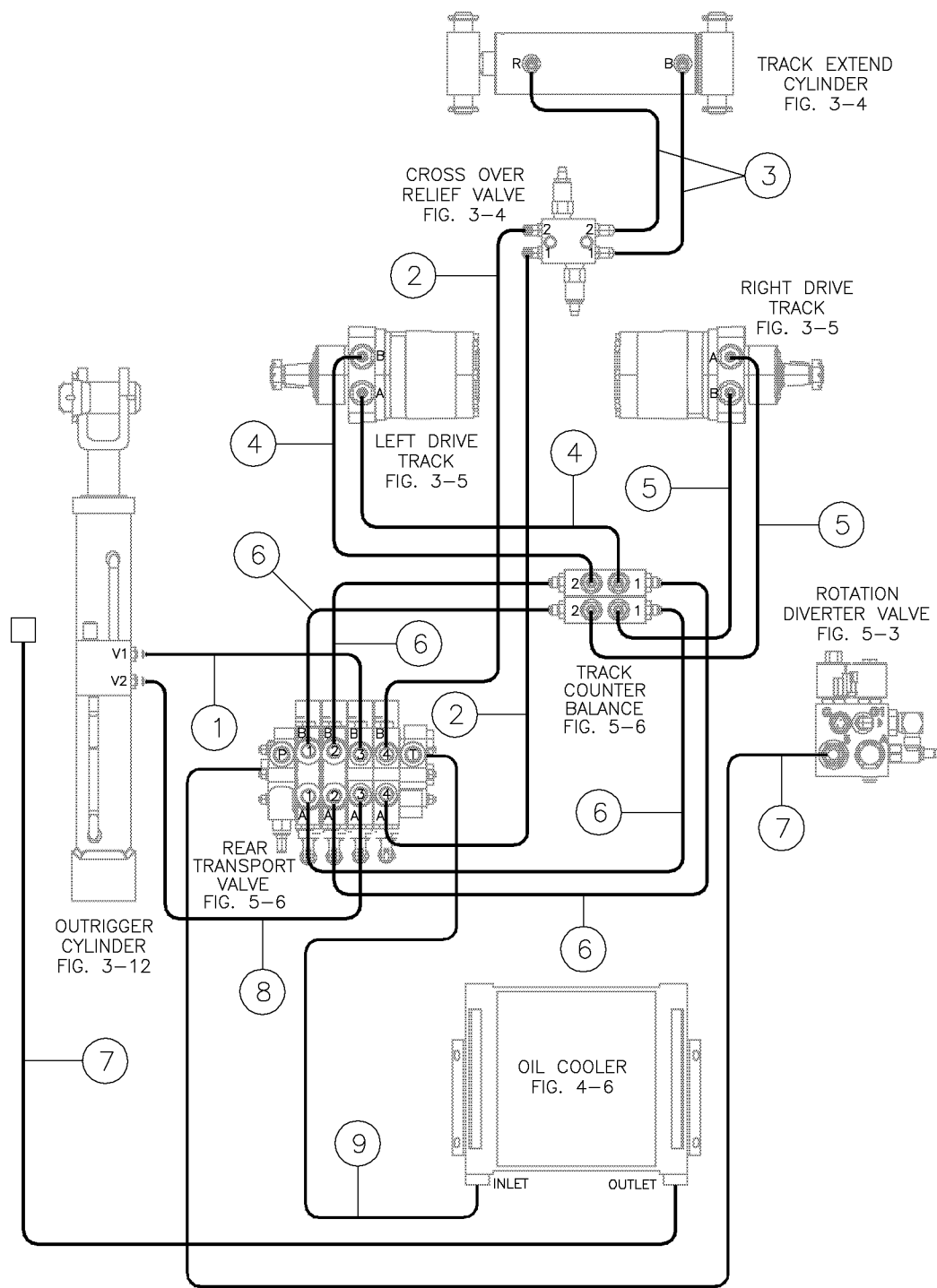
Engine Bay Fig 11-1



Engine Bay Fig 11-1

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296320853	HOSE -HYD-.63X21-10FSJ-ST/90-3600PSI	1	
2		296320891	HOSE -HYD-.25X106-4FSJ-ST/90-3000PSI	1	
3		296320858	HOSE -HYD-.25X106-4FSJ-ST/90-3000PSI	1	
4		296320890	HOSE -HYD-.25X106-4FSJ-25/90-3000PSI	1	
5		296320903	HOSE -HYD-.50X27-8FSJ-ST/90-3000PSI	1	
6		296320895	HOSE-HYD-.63X29-10FSJ-ST/ST-3600PSI	1	
7		296320898	HOSE -HYD-.50X17-8FSJ-ST/90-3000PSI	1	
8		296320893	HOSE -HYD-.63X17-10FSJ-ST/90-3600PSI	1	
9		296327016	HOSE-HYD-.63X22.5-10FSJ-ST/45-3600PSI	1	
10		296320892	HOSE -HYD-.63X27-10FSJ-ST/ST-3600PSI	1	
11		296270758	HOSE - 1 1/2" X 9.50" SUCTION	1	
12		296320894	HOSE -HYD-.25X13-4FSJ-ST/90-3000PSI	1	
13		270188001	HOSE-.25X23 4FJX ST/ST 3K PSI (BNS)	1	
14		296320896	HOSE-HYD-.63X22-10FSJ-ST/ST-3600PSI	1	
15		296320855	HOSE -SUCTION-24X22-100PSI	1	
16		296320854	HOSE -HYD-.63X29-10FSJ-ST/90-3600PSI	1	
17		296320838	*HOSE -HYD-.63X56-10FSJ-ST/ST-3600PSI	1	
18		296320897	*HOSE-HYD-.63X80-10FSJ-ST/ST-3600PSI	1	

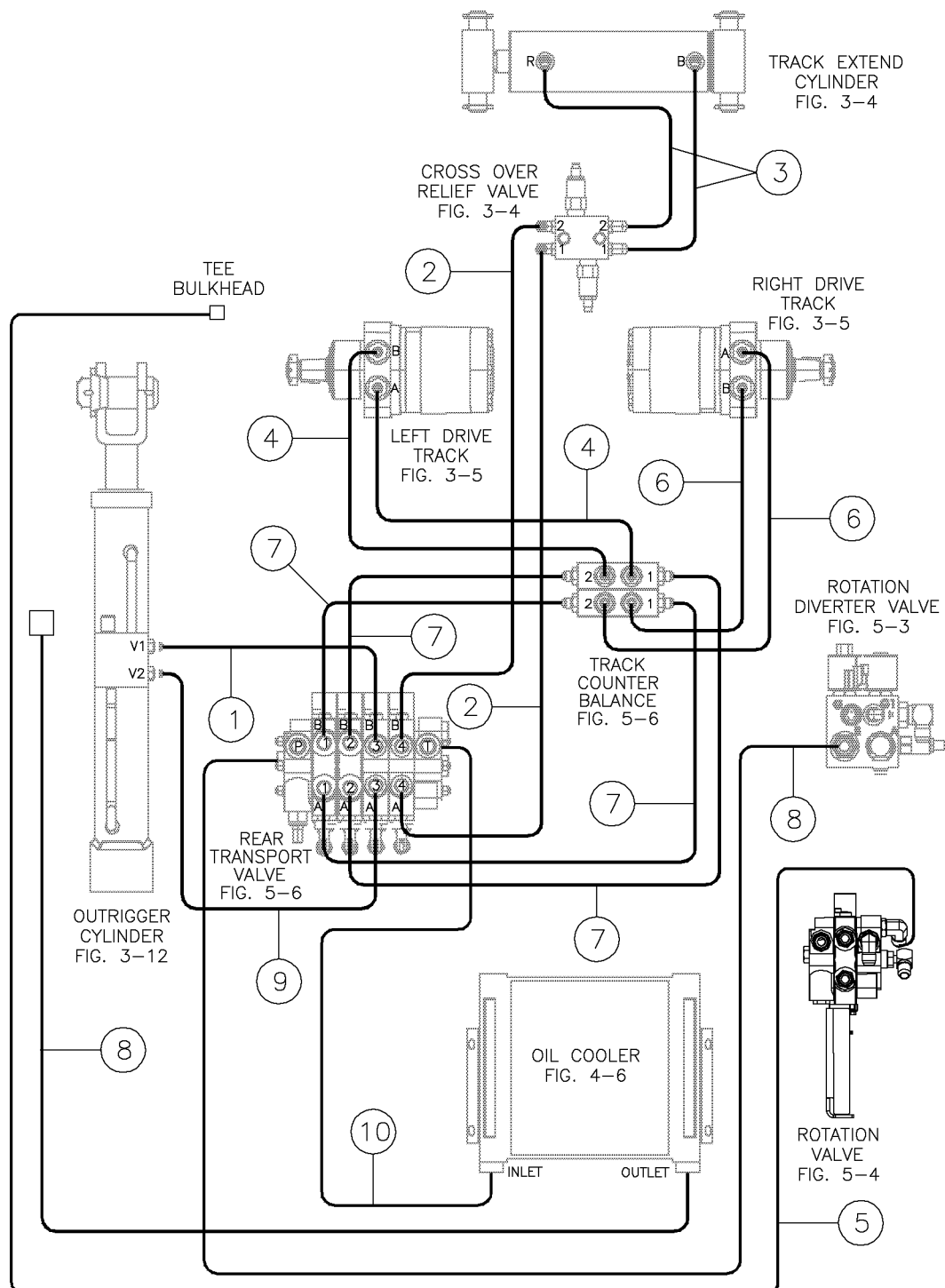
Rear Valve Fig 11-2r01



Rear Valve Fig 11-2r01

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		53843483	*HOSE-1/4X72 4FS JIC 3000 PSI	1	
2		296320835	HOSE-HYD-.25X96-4FSJ-ST/90-3000PSI	2	
3		296320900	*HOSE -HYD-.25X11-4FSJ-ST/ST-3000PSI	2	
4		296320869	HOSE -HYD-.38X78-6FSJ-ST/90-3000PSI	2	
5		296320867	HOSE -HYD-.38X78-6FSJ-ST/90-3000PSI	2	
6		296277603	HOSE -HYD-.38X48-6FSJ-ST/90-3000PSI	4	
7		296320836	HOSE HYD-.38X48-6FSJ-ST/90-3000PSI	2	
8		296320864	HOSE -HYD-.25X70-4FSJ-ST/90-3000PSI	1	
9		296320837	HOSE - HYD - .38X23-6FSJ-ST/90-3000PSI	1	

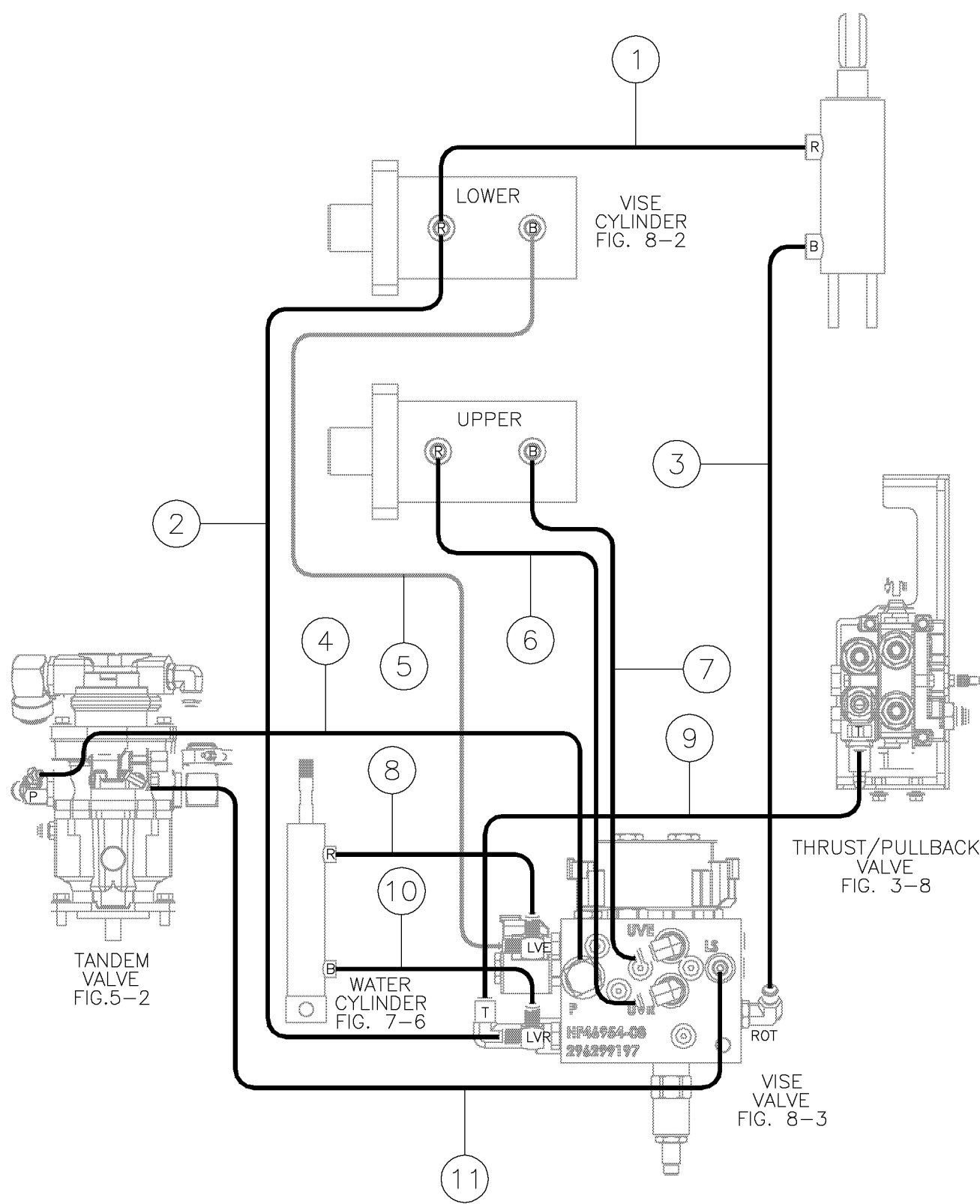
Rear Valve Fig 11-2



Rear Valve Fig 11-2

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		53843483	*HOSE-1/4X72 4FS JIC 3000 PSI	1	
2		296320835	HOSE-HYD-.25X96-4FSJ-ST/90-3000PSI	2	
3		296320900	*HOSE -HYD-.25X11-4FSJ-ST/ST-3000PSI	2	
4		296320869	HOSE -HYD-.38X78-6FSJ-ST/90-3000PSI	2	
5		296327016	HOSE-HYD-.63X26-10FSJ-ST/45-3600PSI	1	
6		296320867	HOSE -HYD-.38X78-6FSJ-ST/90-3000PSI	2	
7		296277603	HOSE -HYD-.38X48-6FSJ-ST/90-3000PSI	4	
8		296320836	HOSE HYD-.38X48-6FSJ-ST/90-3000PSI	2	
9		296320864	HOSE -HYD-.25X70-4FSJ-ST/90-3000PSI	1	
10		296320837	HOSE - HYD - .38X23-6FSJ-ST/90-3000PSI	1	

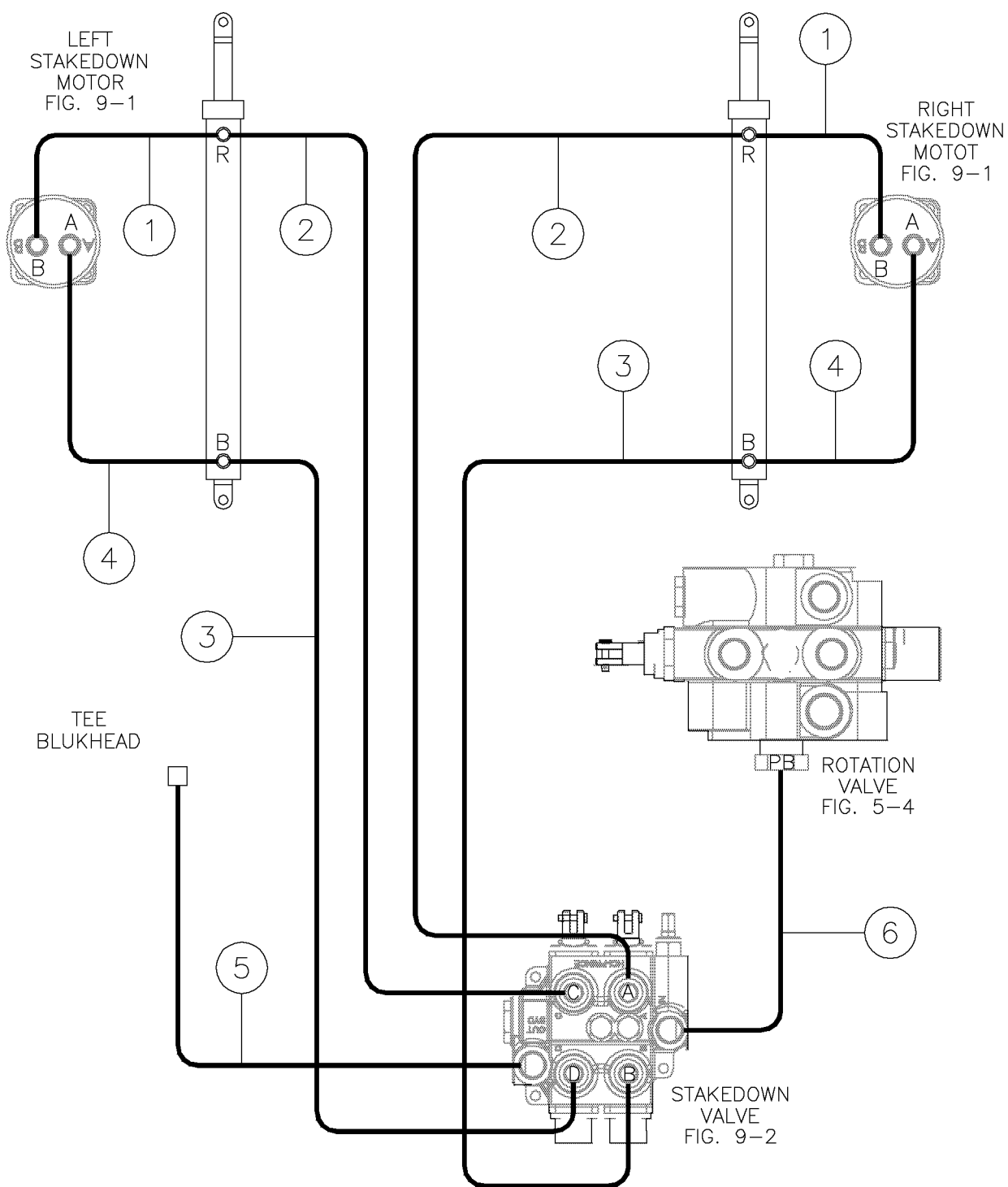
Vise Valve Fig 11-3



Vise Valve Fig 11-3

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296320881	HOSE -HYD-.25X34-4FSJ-ST/90-3000PSI	1	
2		296320876	HOSE -HYD-.25X37-4FSJ-ST/90-3000PSI	1	
3		296320878	HOSE -HYD-.25X41-4FSJ-ST/45-3000PSI	1	
4		296320882	HOSE -HYD-.38X95-6FSJ-ST/ST-3000PSI	1	
5		296320877	HOSE -HYD-.25X35-4FSJ	1	
6		296320880	HOSE -HYD-.25X37-4FSJ-ST/90-3000PSI	1	
7		296320879	HOSE -HYD-.25X36-4FSJ-ST/ST-3000PSI	1	
8		296320700	*HOSE-1/4X122 4FS ST/90 JIC 3000 PSI	1	
9		296320844	HOSE -HYD-.38X83-6FSJ-ST/45-3000PSI	1	
10		296320875	HOSE -HYD-.25X125-4FSJ-ST/90-3000PSI	1	
11		296320883	HOSE -HYD-.25X73-4FSJ-ST/ST-3000PSI	1	

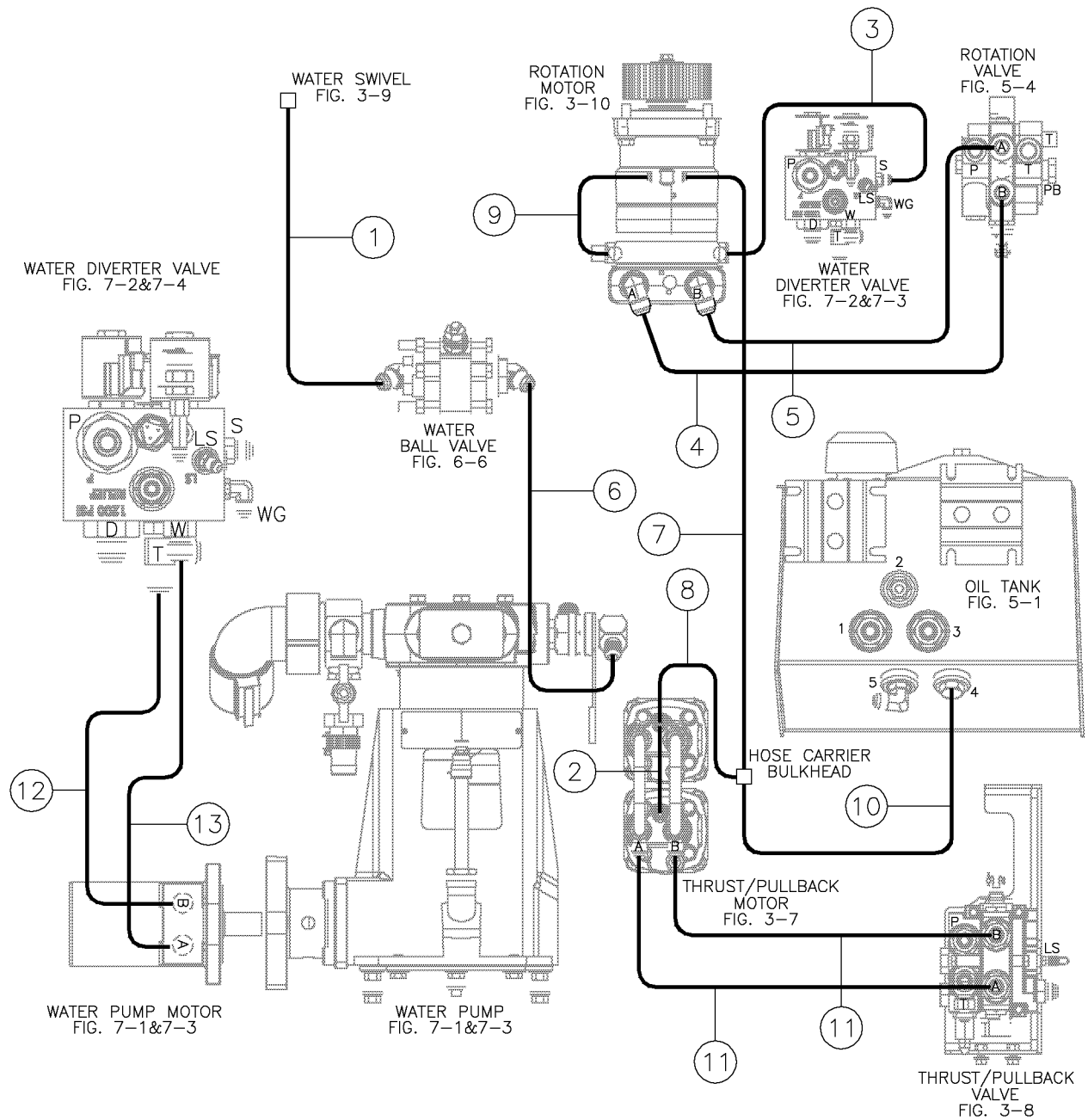
Stakedown Fig 11-4



Stakedown Fig 11-4

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296320874	HOSE -HYD-.25X34-4FSJ-ST/ST-3000PSI	2	
2		296320872	HOSE -HYD-.25X63-4FSJ-ST/ST-3000PSI	2	
3		296320871	*HOSE -HYD-.25X38-4FSJ-ST/45-3000PSI	2	
4		296320873	HOSE -HYD-.25X60-4FSJ-ST/ST-3000PSI	2	
5		296320841	HOSE -HYD-.63X107-10FSJ-ST/90-3600PSI	1	
6		296320840	HOSE-HYD-.63X108-10FSJ-ST/45-3600PSI	1	

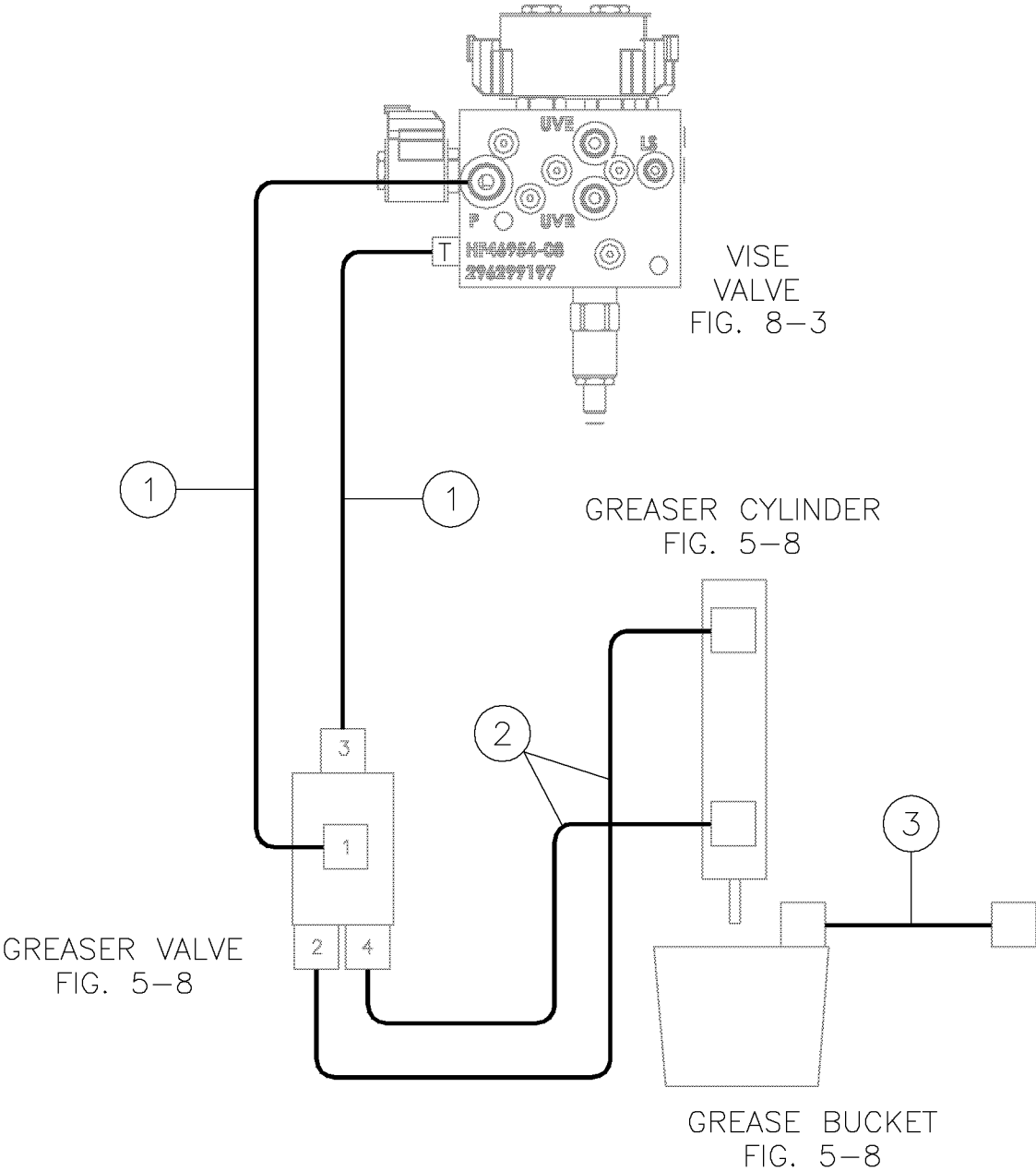
Hose Carrier/Water Pump Fig 11-5



Hose Carrier/Water Pump Fig 11-5

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		296320888	HOSE -HYD-.50X113-8FSJ-ST/ST-3000PSI	1	
2		53843549	*HOSE-1/4X11 4FS JIC 3000 PSI	1	
3		296320850	HOSE -HYD-.25X166-4FSJ-ST/ST-3000PSI	1	
4		296320846	HOSE -HYD-.63X173-10FSJ-ST/90-3600PSI	1	
5		296320847	HOSE -HYD-.63X173-10FSJ-ST/45-3600PSI	1	
6		296327018	HOSE - HYD - .50 X 17 - 8FSJ - ST/ST - 3000PSI	1	Required for 9 gallon water tank
6		296320920	HOSE -HYD-.50X14-8FSJ-ST/90-3000PSI	1	Required for 15 gallon water tank
7		296320886	HOSE -HYD-.25X24-4FSJ-ST/45-3000PSI	1	
8		296320889	HOSE -HYD-.25X16-4FSJ-ST/45-3000PSI	1	
9		296320885	HOSE -HYD-.25X14-4FSJ-ST/45-3000PSI	1	
10		296320851	HOSE -HYD-.38X147-4FSJ-ST45-3000PSI	1	
11		296320848	HOSE -HYD-.63X146-10FSJ-ST/45-3600PSI	2	
12		296320849	HOSE -HYS-.50X81-8FSJ-ST/90-3000PSI	1	
13		296320856	HOSE -HYD-.50X82-8FSJ-ST/90-3000PSI	1	

Auto Greaser Fig 11-6



Auto Greaser Fig 11-6

REF. NO.	*	PART NO.	DESCRIPTION	QTY.	REMARKS
1		308010984	HOSE-HYD-.38X52.5-6FSJ-STR/STR-SLEEVED	2	
2		270188001	HOSE-.25X23 4FJX ST/ST 3K PSI (BNS)	2	
3		53843547	*HOSE-1/4X21 4FS JIC 3000 PSI	1	

NOTES: _____

No part of this manual may be reproduced in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval systems, without the express written consent of Vermeer Corporation.

Copyright © 2009-2010 Vermeer Corporation
All rights reserved.
Vermeer Corporation
1210 Vermeer Road East, P.O. Box 200
Pella, Iowa 50219-0200, USA