



IMPORTANT!

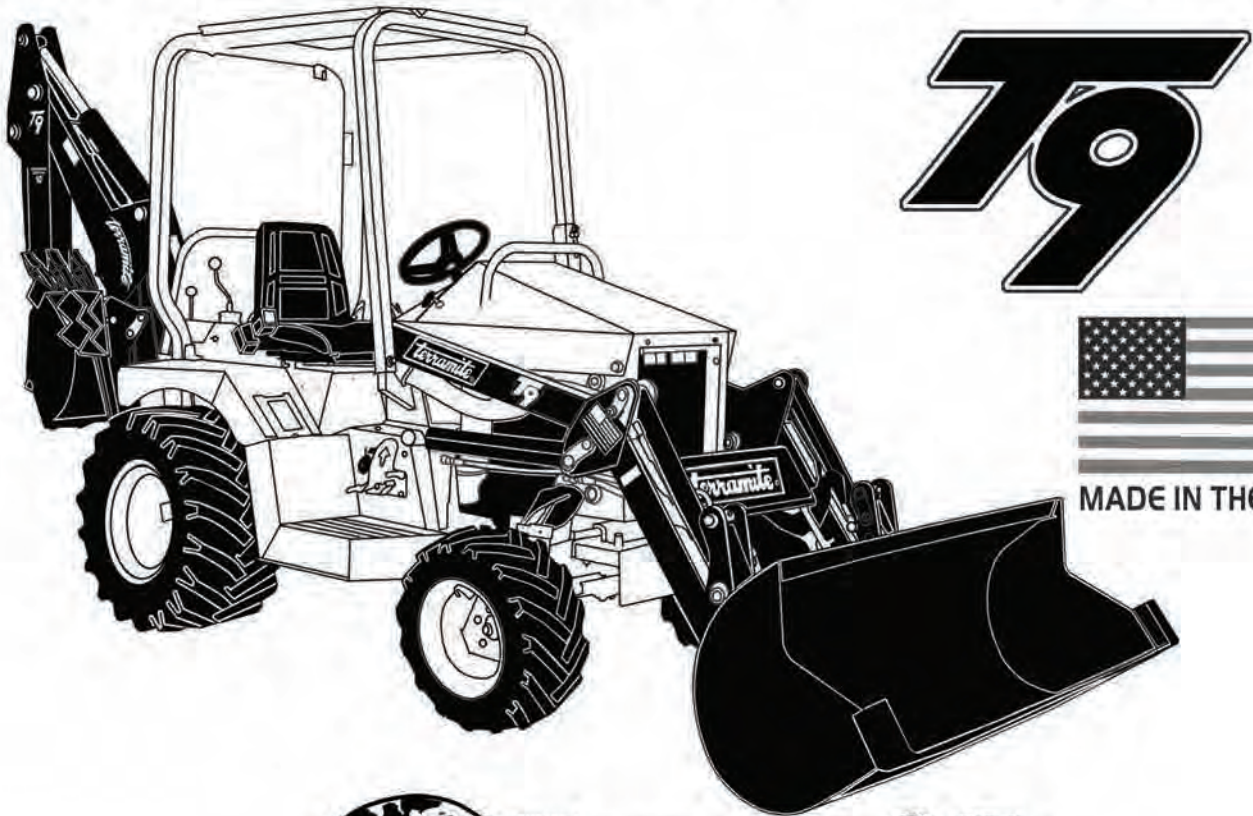


READ THIS MANUAL BEFORE OPERATING MACHINE.

COMPACT TRACTOR LOADER BACKHOE

PARTS MANUAL

TERRAMITE CORPORATION SINCE 1965



T9



“Backed by a World of Experience”

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Safety


Safety is a prime consideration in the design of this machine. Guards, shields and other safety features are built in wherever possible. However, accident reports show carelessness causes the majority of accidents. You can avoid most accidents by observing the safety rules on these pages. Study these rules carefully and enforce them on the job:


 **Never allow minors to operate or be in the vicinity of the machine while working.**


 **Do not allow the T5C to be operated by anyone who is intoxicated or on medication that would affect their judgement or ability to operate the machine.**


 **The machine is designed to be operated by adults who are of average size and weight. Persons who are extremely heavy, big or tall, or those who are exceedingly short, light or weak can not run the machine.**


Before Operating the Terramite T5C


 **Read the Operator's Handbook.** Never allow anyone to operate the backhoe without reading the Operator's Manual and Safety Instructions. This should be followed by supervised training.


 **Check Your Equipment.** Always make a complete inspection of the machine before operating it that day. Check the hydraulic system and the engine oil level. Then check the machine for broken, missing or defective parts. Check the tires for cuts, bulges, irregularities and abnormal wear and proper inflation. Check the neutral position of the foot pedal. A malfunctioning machine invites accidents.


 **"Do Not Operate" Tag.** When you service the machine, put a "DO NOT OPERATE" Tag on the instrument panel. This tag (Terramite Part Number 1-400.82) is included with each machine.


 **Keep Your Machine Clean.** Slippery surfaces are hazardous. Remove oil, grease or mud from the operating area of the tractor. Failure to keep these areas clean could cause a serious accident.

 **Wear What is Needed for Protection.** Protect yourself by wearing all the protective clothing and personal safety devices issued to you or required by job conditions. You may need a hard hat, safety shoes, safety glasses, heavy gloves, hearing protection, reflective clothing, wet weather gear and a respirator. Never take chances by wearing loose clothing, watches or rings.

 **Look For Hazards.** Walk around a new work area and check for any hidden hazards, such as holes and abutments.

 **Read and Heed Safety Decals.** Make sure the safety and information decals can be easily read. To clean decals, use soap and water only. Gasoline or solvents will destroy the decals. If these decals are missing or illegible, call our Parts/Service Department for replacements.

 **Roll-Over Protective Structure.** All Terramite T5C tractor loader backhoes are equipped with a Roll-Over Protective Structure. This is designed to protect the operator in the event of a roll-over. If this machine has been rolled over, the R.O.P.S. must be replaced. It is designed to be used only once.

 **Driving Pivot Pins.** When driving pivot pins in or out, use care to guard against injury from particles that may chip off the pin or object used in striking the pin. These pins can fly out at high speed if they are not tapped lightly just before they come out. Make sure there isn't anyone or anything in the way, in case the pin flies out. Safety glasses should be worn.



See Operator's Manual For More Safety Information





Before Your Start

READ OPERATOR'S HANDBOOK

*Carefully read all **WARNING!** and **DANGER!** messages in handbook and be sure you understand their meanings.*

IMPORTANT! If this machine is used by the owner, an employee, or is loaned or rented, make sure that the following instructions are complied with:

- 1. The operator has read the Operation and the Safety Rules sections of the Operator's Handbook.**
- 2. He has been instructed on the safe and correct use of the machine.**
- 3. He has practiced operating the machine and the use of all controls in a safe, clear area before he operates the machine on a job site.**
- 4. He has read all safety decals on the machine.**
- 5. He has been informed to clear the area of other persons and hidden hazards before starting the machine.**

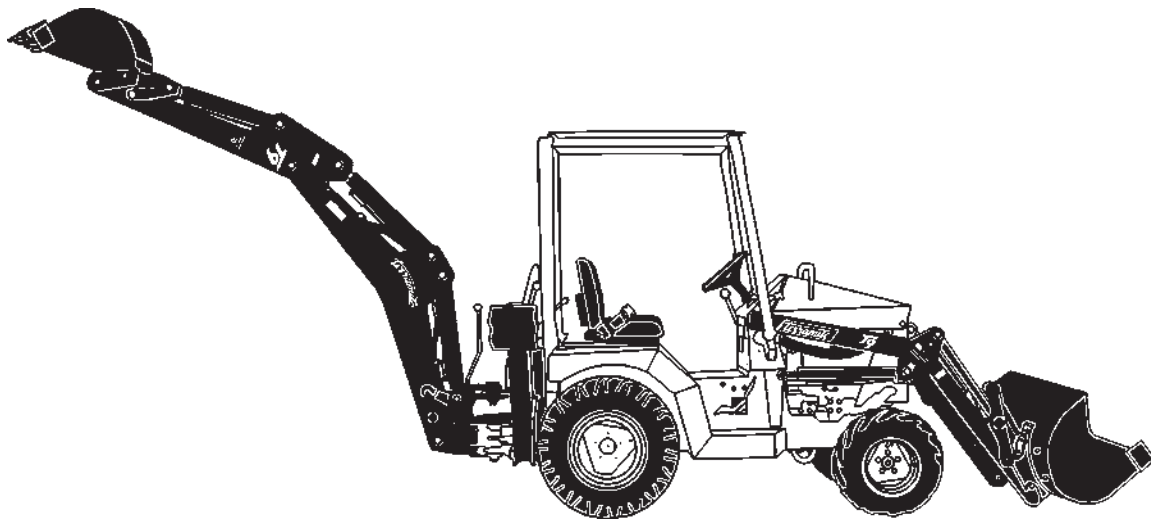
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Oil Change and Type Specifications

When your machine is new, the hydraulic system oil and filter must be changed within the first 50 hours of use and every 250 thereafter. Refill the hydraulic reservoir with engine oil type API SF.CD 15W40 when outside temperature is above 40 degrees F. Use engine oil type API SF.CD 10 weight when outside temperature is below 40 degrees F. Replace filter with Terramite / 21002 filter. It is important to follow these instructions to alleviate any cold weather engine starting problems and any pressure or heat related component failures.

**DO NOT USE REGULAR HYDRAULIC OIL!
MAJOR DAMAGE WILL RESULT!**



This is the position machine must be in to check proper level in hydraulic tank.

Required Pre-Fuel Filter Changes for Gasoline and Diesel Machines

ALL Terramite Backhoes and Street Sweepers require their pre-fuel filters to be changed at the first 20 hours and again at 40 hours. These pre-fuel filters should be changed every 20 to 50 hours thereafter using a 10 micron filter.

The following Pre-fuel filters are designed for gasoline and diesel engines.

Terramite 15506

NOTE: Filling tank with loader or backhoe in any other position will result in overfilling and spillage of fluid through the breather cap. Replace cap if oil should ever spill out of breather cap since it will clog off the air supply that the systems needs to operate properly.

Parts

On Hand Spare Parts

Following is a list of spare parts we recommend you keep on hand.

Oil, Fuel and Air Filters

One of each size Cylinder Packing Kit (specify serial number of machine when ordering)

Grease Fittings

One each of a longest length and medium length Hoses and spare Cylinder Fittings

Tie Rod End

Pedal Return Spring

Wheel Bearings

Tooth Caps with Pins

Assortment of long, medium and short Pins

Control Valve Linkage Parts and Cotter Pins

Special Tools

ITEM	PART NUMBER	DESCRIPTION		QTY.
1	10599	1-05.SDT	Punch, for 1-05.SD & TT Tooth Caps	1
2	21176	A-176	Spanner wrench for cylinder repair	1

Purging Air From Fuel System Service Procedures Perkins 20 HP and 31.5 HP Diesel Engines

CAUTION: Review ALL steps before proceeding.

CAUTION: Always use caution - wear eye protection.

TOOLS NEEDED: WRENCHES - 19mm; 18mm; 13mm

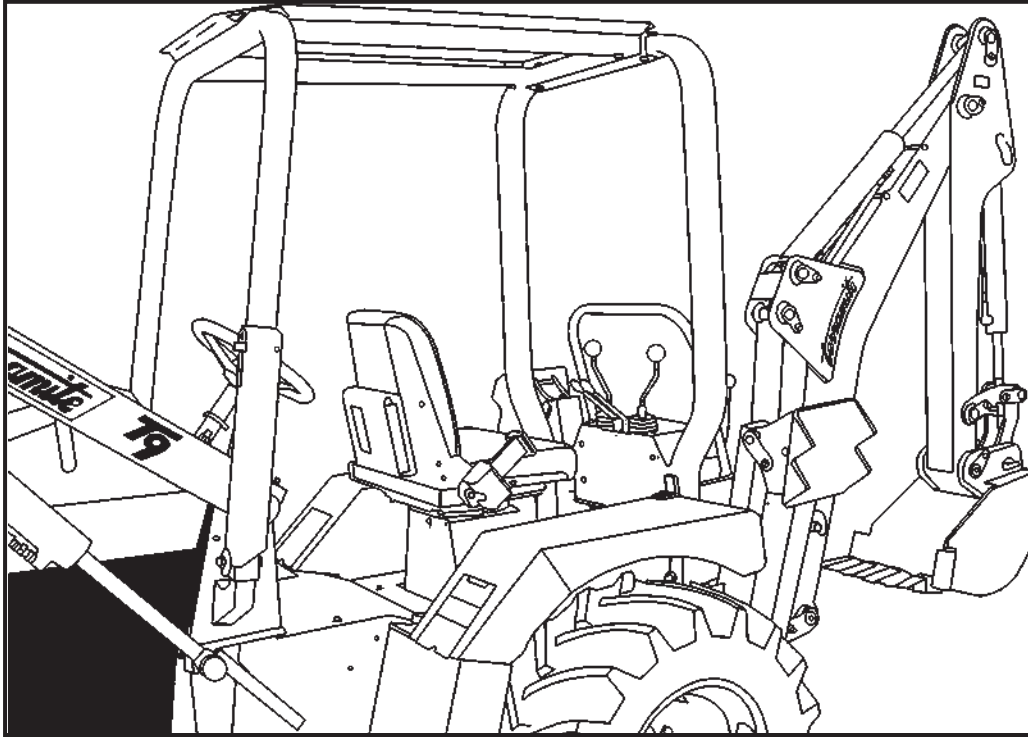
STEPS 1-8

1. Make sure fuel tank has adequate fuel. Make certain fuel filter is full of fuel.
2. Using 19mm wrench loosen bolt on main fuel filter (Fig. A). Ignition switch must be in the ON position to enable fuel to reach upper rails.
3. Operate hand pump using lever (Fig. B) until fuel flows from bolt (Fig. A). If no fuel flows, quickly start and stop engine. Retry hand pump. Repeat if necessary.
4. Tighten bolt (Fig. A).
5. Using 13mm wrench loosen bolt (Fig. C) on top of injector pump. This needs done on all lines on pump.
6. Tighten bolt (Fig. C).
7. Loosen high-pressure line at injector. Using key switch crank engine to purge air from line. Stop cranking. Tighten line when fuel begins to be free of air. This needs done on all lines on pump.
8. Start engine.

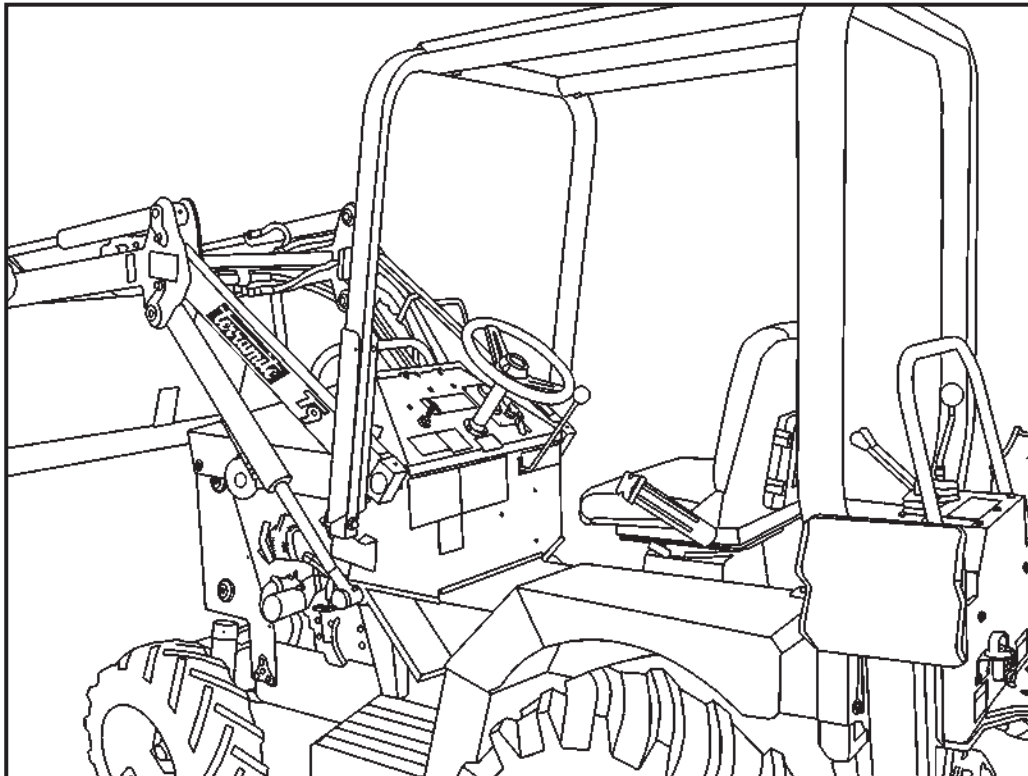
CAUTION: fuel will be under pressure when fuel has a good stream and no air is present.

NOTE: AFTER STEPS 1-8 IF ENGINE DOES NOT START YOU MUST REPEAT STEPS 1-7 UNTIL ALL AIR IS REMOVED FROM SYSTEM BEFORE ENGINE WILL START.

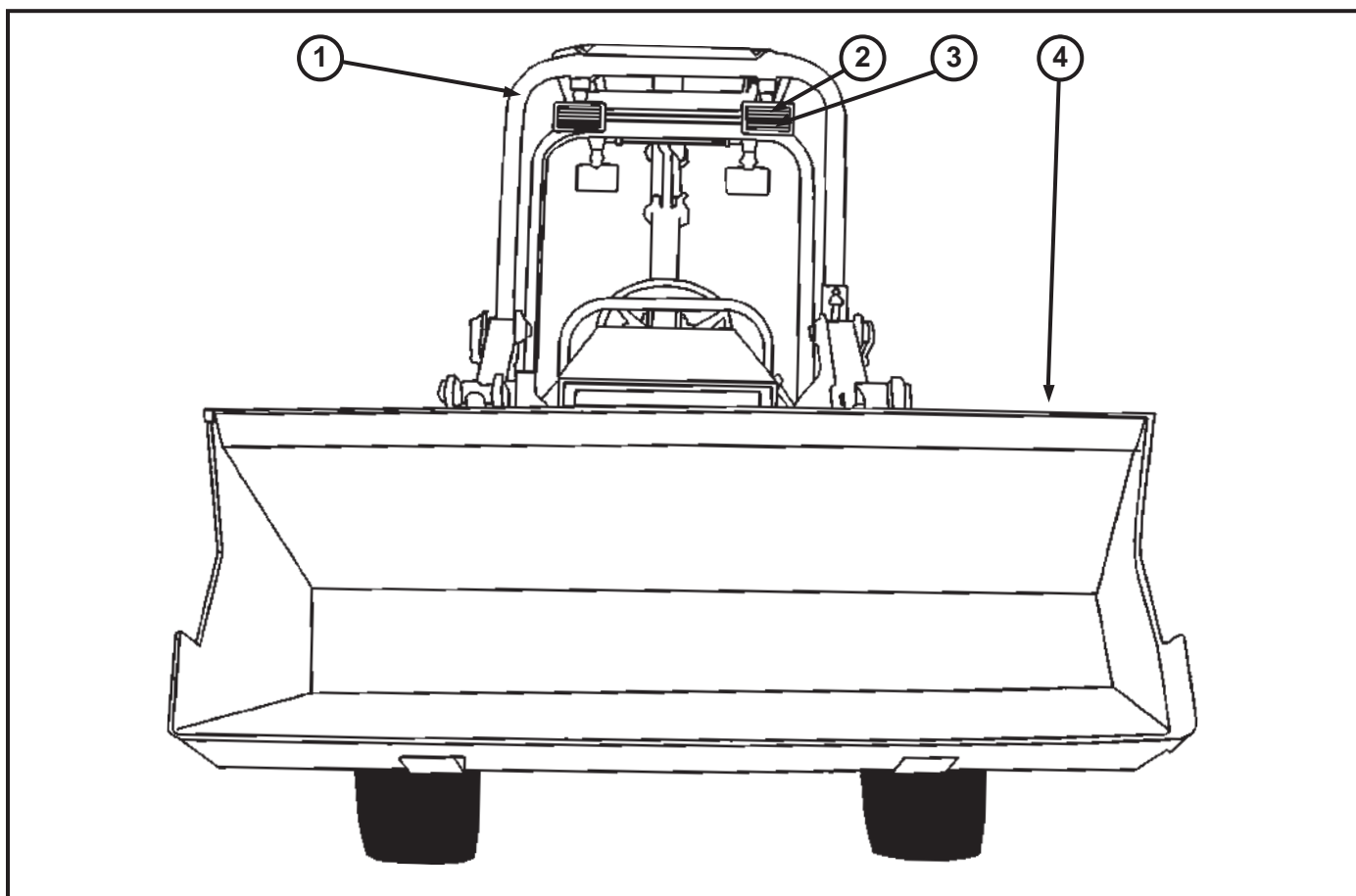
Operator Position for Endloader Use



Operator Position for Backhoe Operation

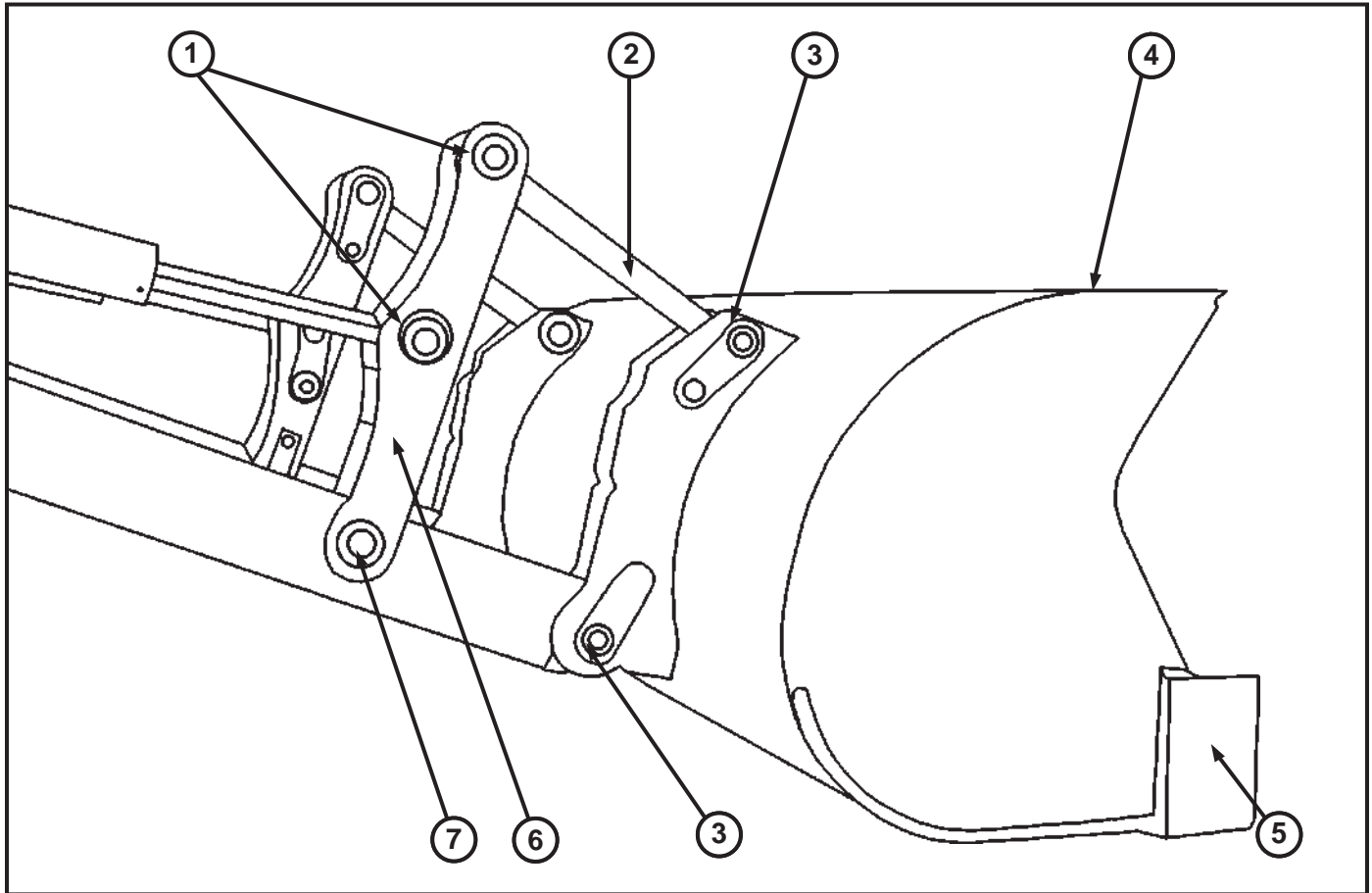


View of Front Loader Bucket



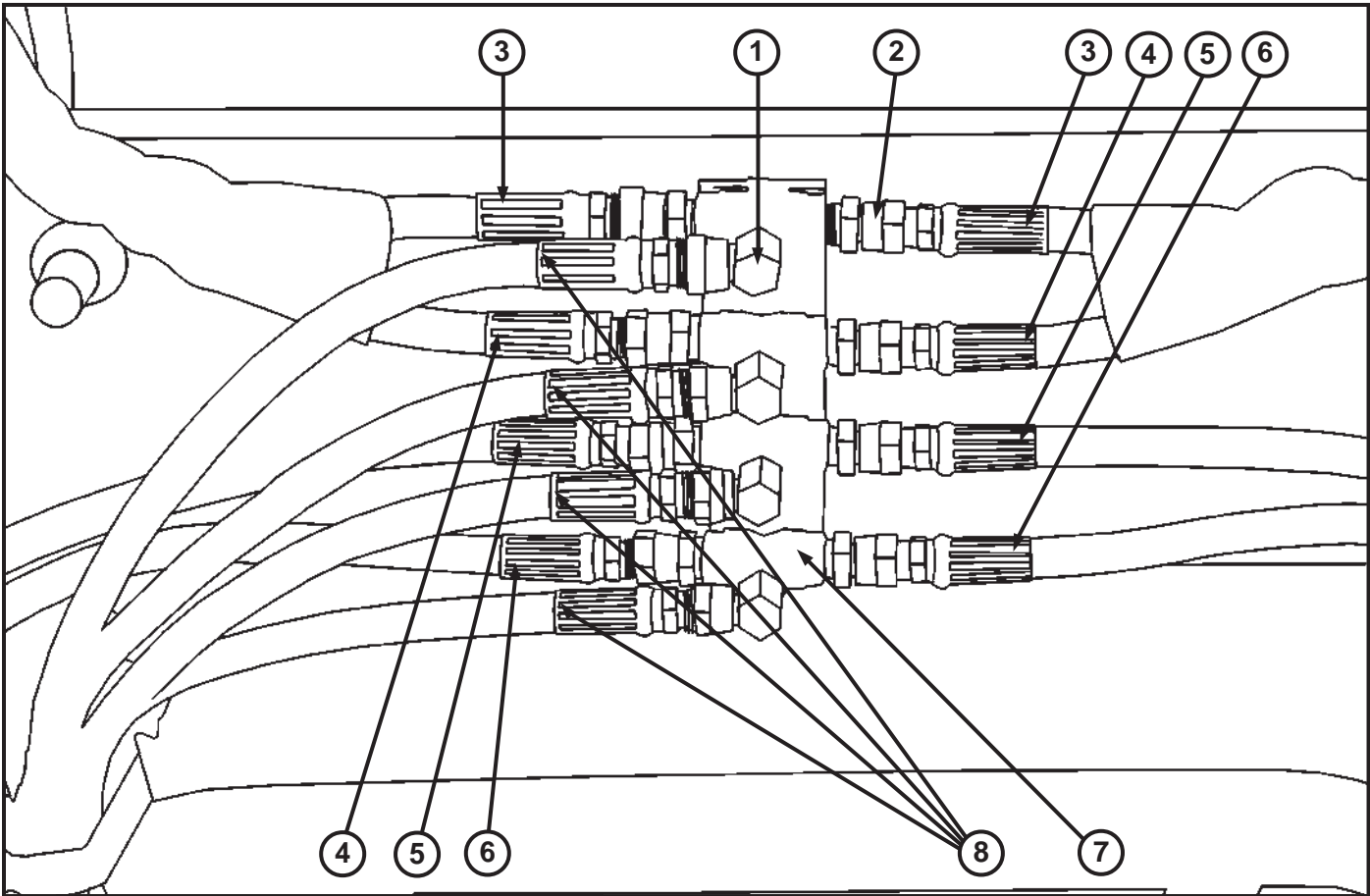
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	18043	Assembly, ROPS, Front and Rear, T5C/T5D/T6/T7/T9 (Arm Strut Included)	1
2	77075	Light, Flood, Rectangle, T5B/T5C/T5D/T6/T7/T9	4
3	74047	Bulb, Halogen, T5C/T5D/T6/T7/T9	4
4	13306	Bucket, Loader, 60" Wide, T6/T9	1

View of Right Side of Loader Bucket



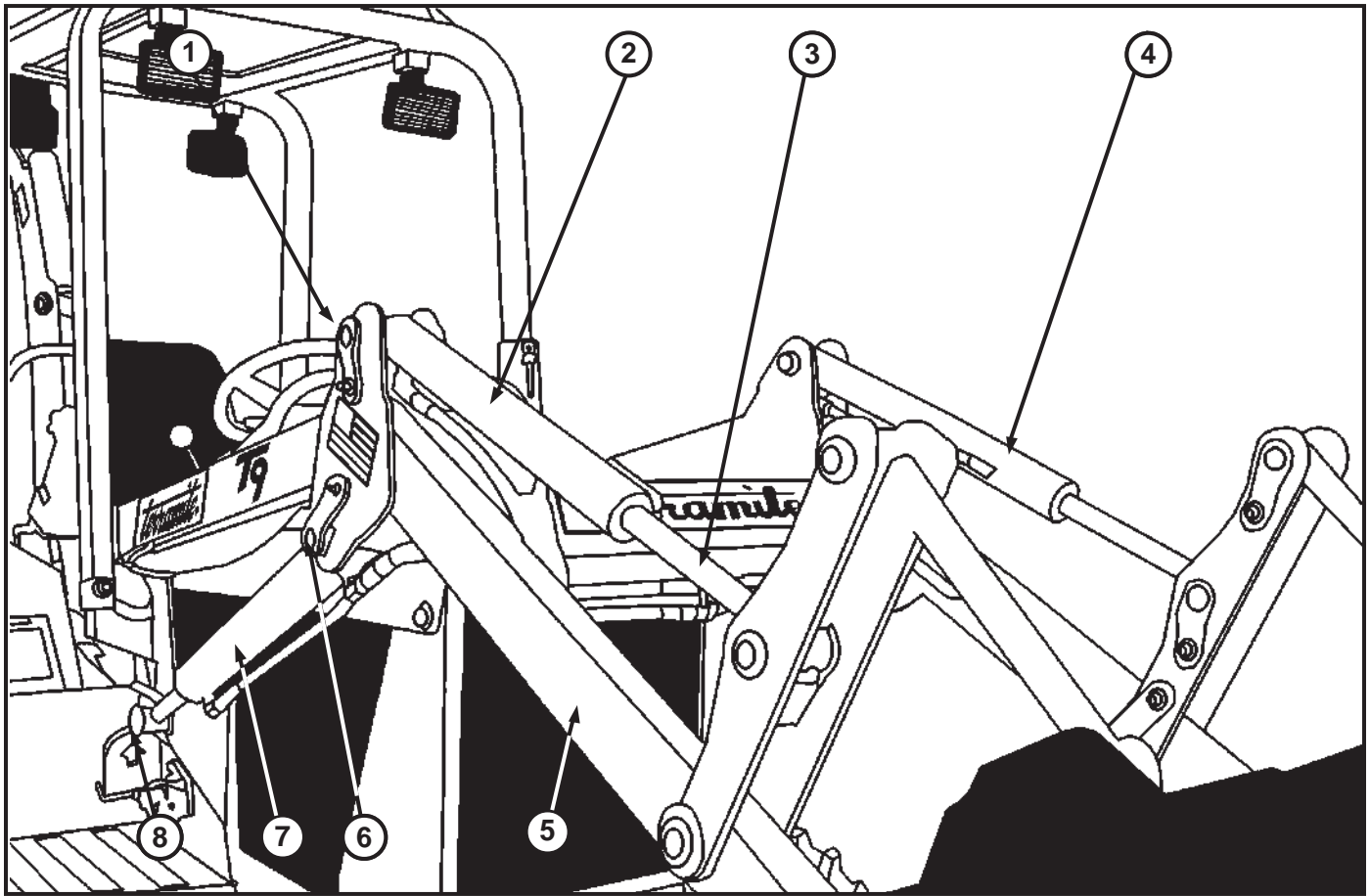
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	17176	Pin, 5 1/2", Arm Link to Arm Cylinder, T5D/T6/T7/T9	4
2	12037	Rod, Link, Loader Arm, T5D/T6/T7/T9	2
3	13200	Pin, 4 3/4", Front Bucket to Arm, T5C/T5D/T6/T7/T9	4
4	13306	Bucket, Loader, 60" Wide, T6/T9	1
5	13060	Edge, Cutting, 60" Loader, T6/T9	1
6	12048	Arm Link Brace, Right, T5D/T6/T7/T9	2
	12079	Arm Link Brace, Left, T5D/T6/T7/T9	
7	17178	Pin, 5 1/2", Arm Link to Arm, T5D/T6/T7/T9	2

View of Underside of Arm Center



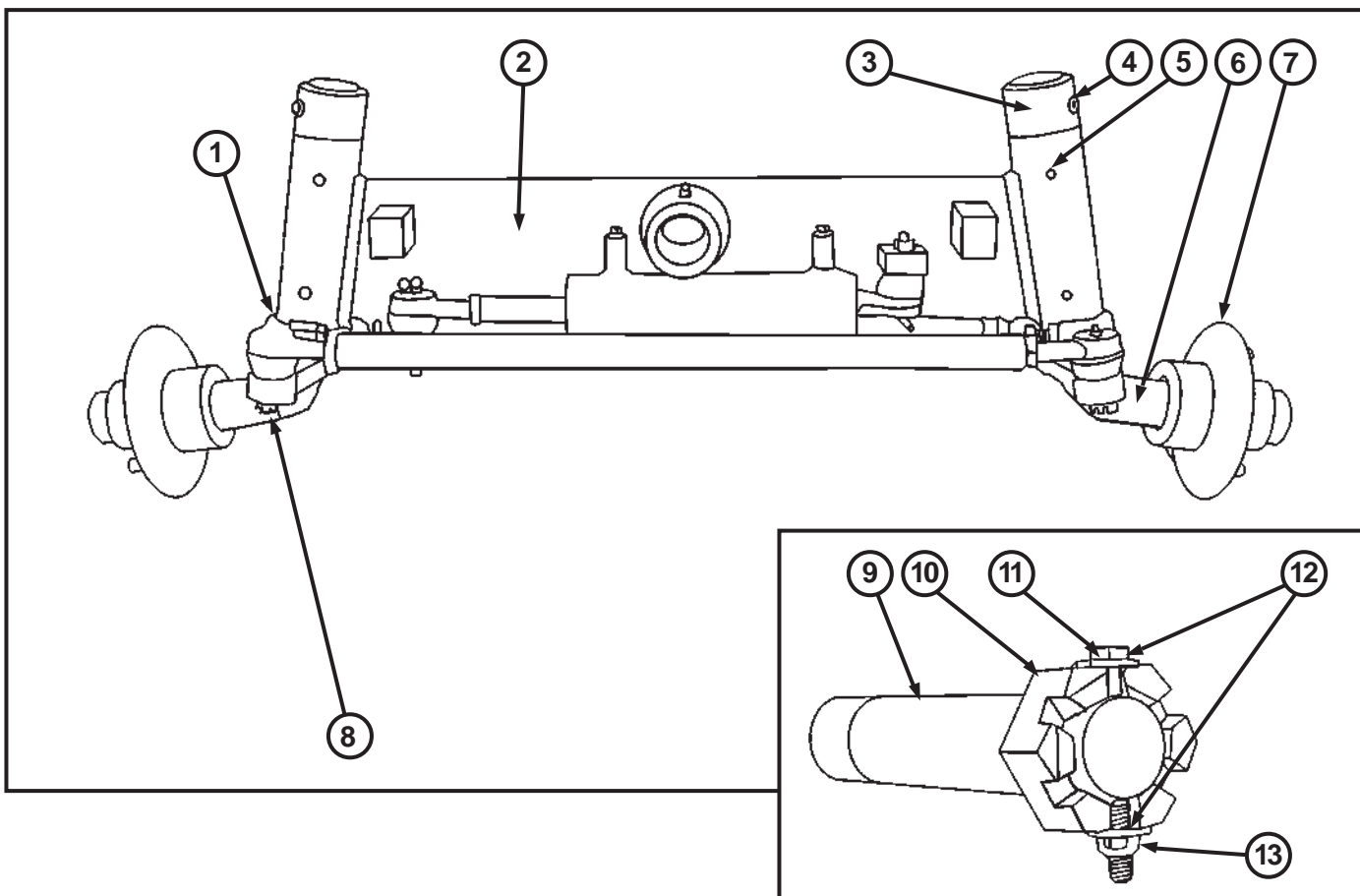
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	20063	Fitting, 3/8" MP x 3/8" 90° Swivel, Stubby, T5D/T6/T7/T9	4
2	20176	Fitting, 3/8" M x 3/8" FM, Swivel	8
3	80133	Hose, 3/8" x 26"	2
4	80134	Hose, 3/8" x 28"	2
5	80090	Hose, 3/8" x 18"	2
6	80158	Hose, 3/8" x 38"	2
7	22266	Fitting, 3/8" Tee, Weld-On	4
8	80132	Hose, 3/8" x 70"	4

View of Right Side of Arm Assembly



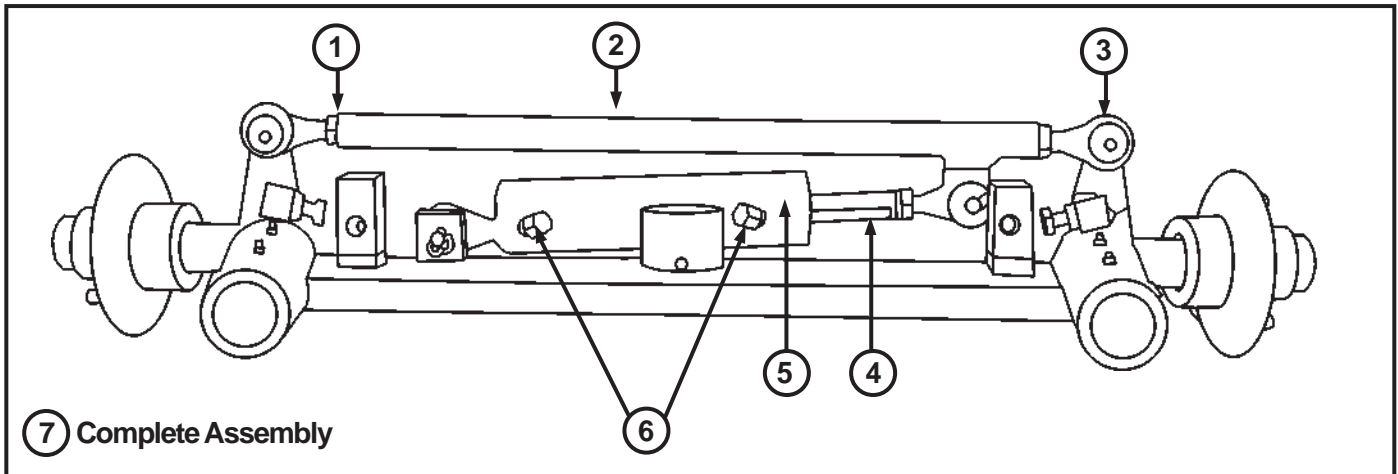
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	12600	Pin, 5 1/4", Arm Cylinder to Arm, T5C/T5D/T6/T7/T9	2
2	82074	Cylinder, Front Curl, Right, T5D/T6/T7/T9	1
3	82073	Rod, 22 1/4", Front Curl, T5D/T6/T7/T9	2
4	82066	Cylinder, Front Curl, Left, T5D/T6/T7/T9	1
5	12072	Assembly, Arm, T9 2W (Includes Decals)	1
	12073	Assembly, Arm, T9 4W (Includes Decals)	
6	17179	Pin, 5 1/2", Arm Bracket to Arm Cylinder, T5D/T6/T7/T9	2
7	81149	Cylinder, Arm Lift, T6/T9	2
8	12301	Pin, 7 7/8", Arm Cylinder Rod to Frame, T5B/T5C/T5D/T6/T7/T9	1

View of Front Axle 2WD



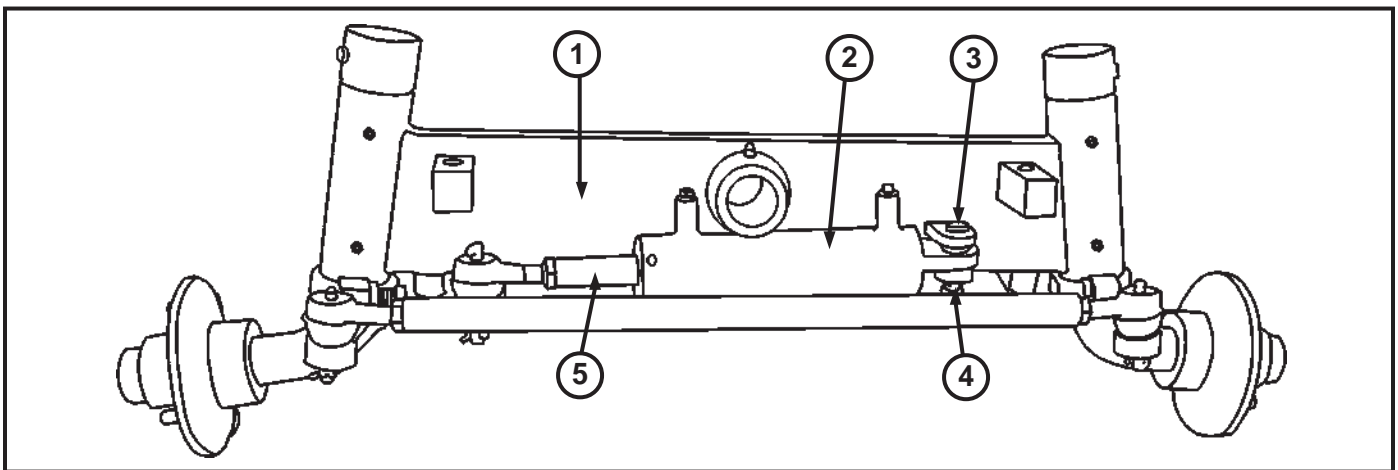
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	53043	Tie Rod End	4
2	53047	Axle, Front, T6/T9 2WD	1
3	53107	Boss, Spindle Lock, T5D/T6/T9 2WD	2
4	28501	Screw, Set, 1/2" - 20 x 1/2" Plain	4
5	21428	Fitting, Grease 1/4" - 28 Straight	4
6	53050	Spindle, Front, Left, 9 5/8", T5D/T7/T6/T9 2WD	1
7	53137	Hub, 5 on 4.5", T5C/T5D/T6/T7/T9 2WD	2
8	53116	Spindle, Front, Right, 9 5/8", T5D/T7/T6/T9 2WD	1
PIVOT PIN & BOLT			
9	15407	Pin, Front Axle Pivot, T6/T9 2WD	1
10	53081	Nut, Hex, 1 1/4" - 12 Slotted Regular	2
11	15013	Bolt, 1/4" - 20 x 2 1/2" Gr8 Z	2
12	24008	Washer, 1/4" Flat USS	2
13	28504	Nut, 1/4" NC Lock Z	1

View of Front Axle 2WD (continued)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	28503	Nut, Jam, 5/8" NF Z	3
2	53054	Tie Rod, T5C/T5D/T6/T7/T9	1
3	53043	End, Tie Rod, w/Kit, T5C/T5D/T6/T7/T9 53221 & 239X0217	4
4	25803	Rod, Power Steering, T5C,T5D/T6/T7/T9 2WD	1
5	25815	Cylinder, Power Steering, T5C/T5D/T6/T7/T9	1
6	23174	Fitting, 1/4" M x 1/4" F 45° Degrees	2
7	15162	Assembly, Axle, Front, T6/T9 2WD (Completely Assembled) 15162	1

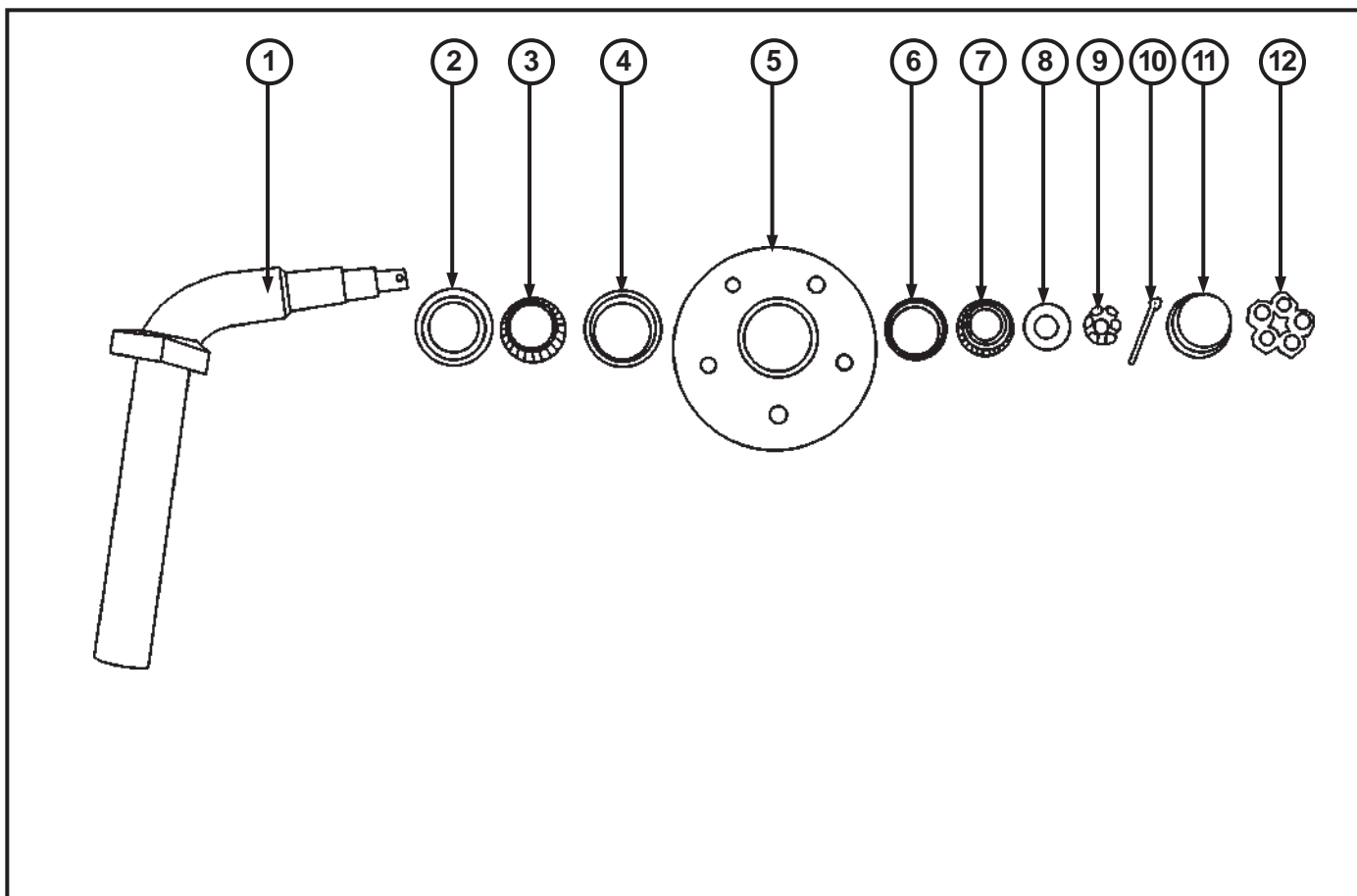
View of Front Axle 2WD - Ball Socket Style (Bumper Not Shown)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	53201	Axle, Front, T7/T9 2W	1
2	81212	Cylinder, Power Steering, Ball Socket Style, T5C/T7/T9 2WD	1
3	24028	Pin, Clevis, 5/8 x 2 1/4"	1
4	53160	Pin, Cotter, 1/8 x 1 3/4"	1
5	25803	Rod, Power Steering, T5C/T5D/T6/T7/T9 2WD	1

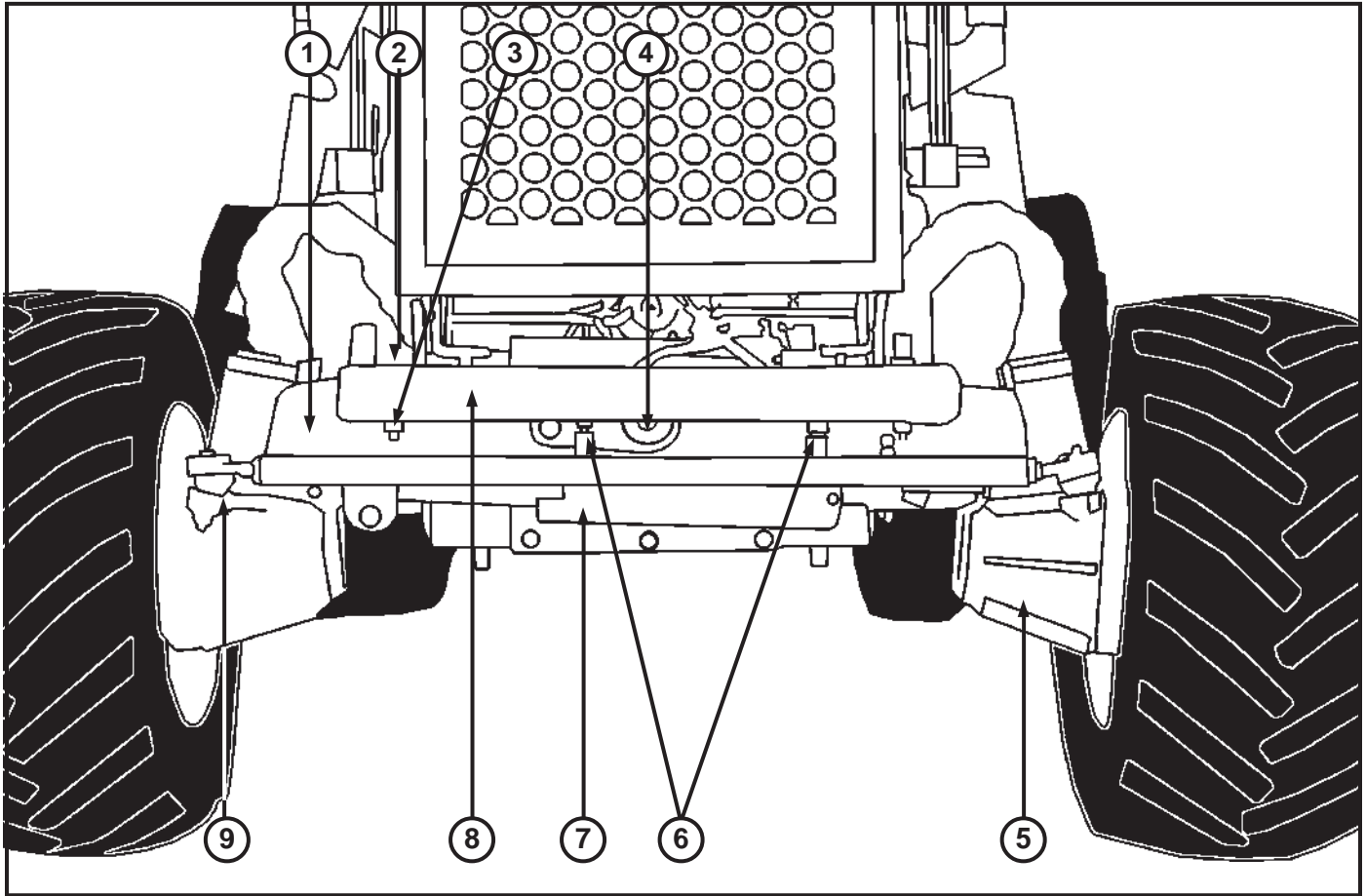
Parts

View of Hub Assembly 2WD



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	53116	Spindle, Front, Right, T5D/T7 T6/T9 2WD	1
	53050	Spindle, Front, Left, T5D/T7 T6/T9 2WD	
2	53111	Seal, Front, Hub, T5C/T5D/T6/T7/T9	1
3	53123	Bearing, Front, Inner, T5C/T5D/T6/T7/T9	1
4	53124	Race, 5 on 5.5, Front, Inner, T5C/T5D/T6/T7/T9	1
5	53137	Hub, 5 on 4.5, T5C/T5D/T6/T7/T9	1
6	53058	Race, Old Style, In & Out and New Style Outer, T5C/T5D/T6/T7/T9	1
7	53125	Bearing, Front, Outer, T5C	1
8	53140	Washer, 3/4", SAE Z, Front Axle	1
9	53150	Nut, Castelated, 3/4", Front Hub	1
10	53160	Pin, Cotter, 1/8 x 1 3/4"	1
11	53170	Cap, Dust, T3/T4/T5C/T5D/T6/T7/T9	1
12	28506	Nut, Lug, 1/2" - 20 ID x 13/16" OD, Front & Rear	5

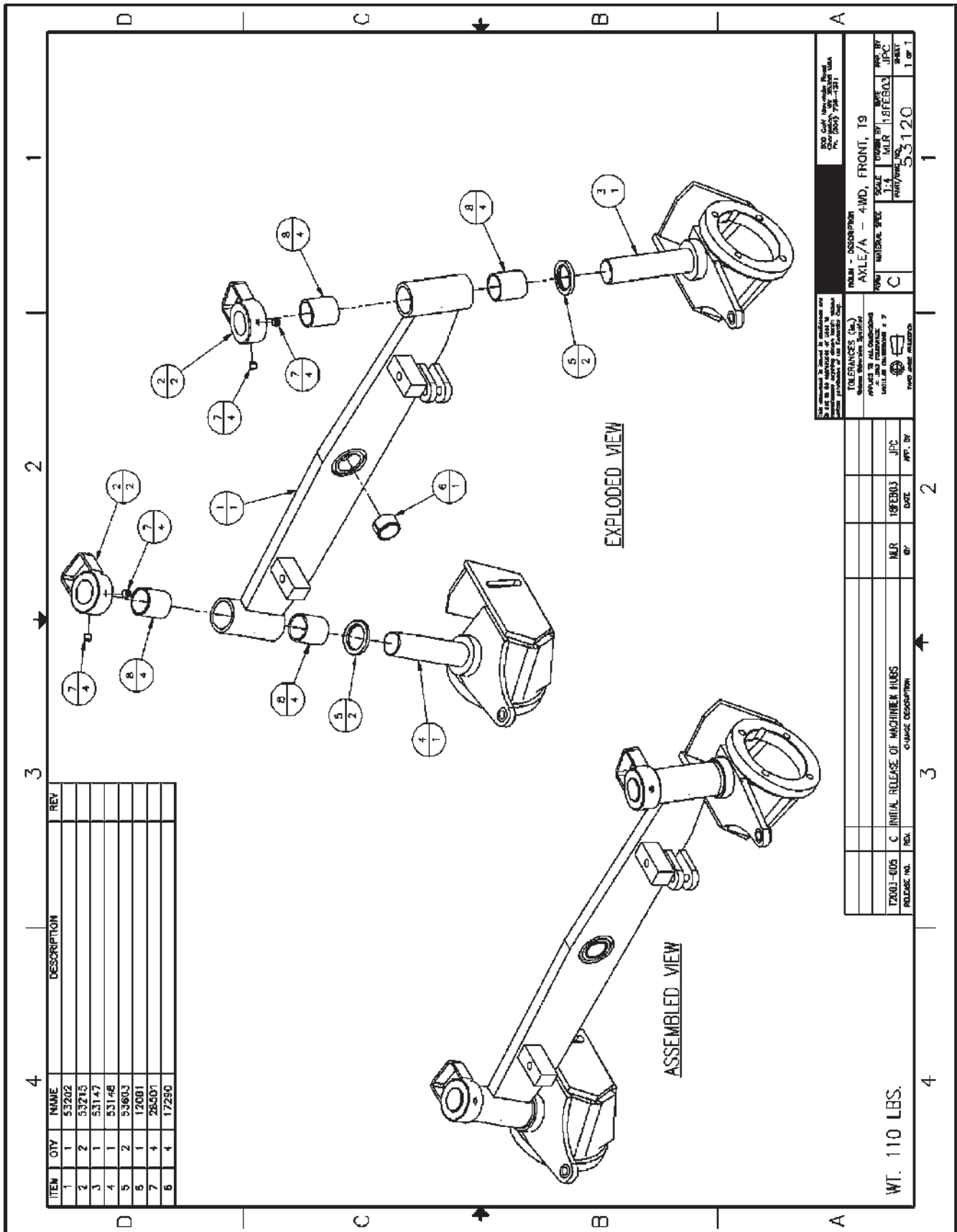
Four Wheel Drive Front Axle (Bumper Attached)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	53176	Axle, Weldment w/Bumper, Front, T6/T9 4WD	1
2	22021	Bolt, 1/2" - 13 x 3" NC Gr8 Z	2
3	28500	Nut, 1/2" NC Lock Z	2
4	53612	Pin, Pivot, Front Axle, T6/T9 4WD	1
5	62022	Motor, Front Drive Torque, Eaton (NOT SHOWN)	2
6	22174	Fitting - 1/4" MP x 1/4" F 90°, Swivel	2
7	81215	Cylinder, Power Steering, 11 5/8", T6/T9 4WD	1
8	16066	Bumper, Front Axle, T5C/T5D/T6/T7/T9 (Before 10-22-01)	1
	42048	Bumper, Front Axle, T5D/T6/T7/T9 (After 10-22-01)	
9	53043	End, Tie Rod, w/Kit	4

Parts

View of 4WD Front Axle

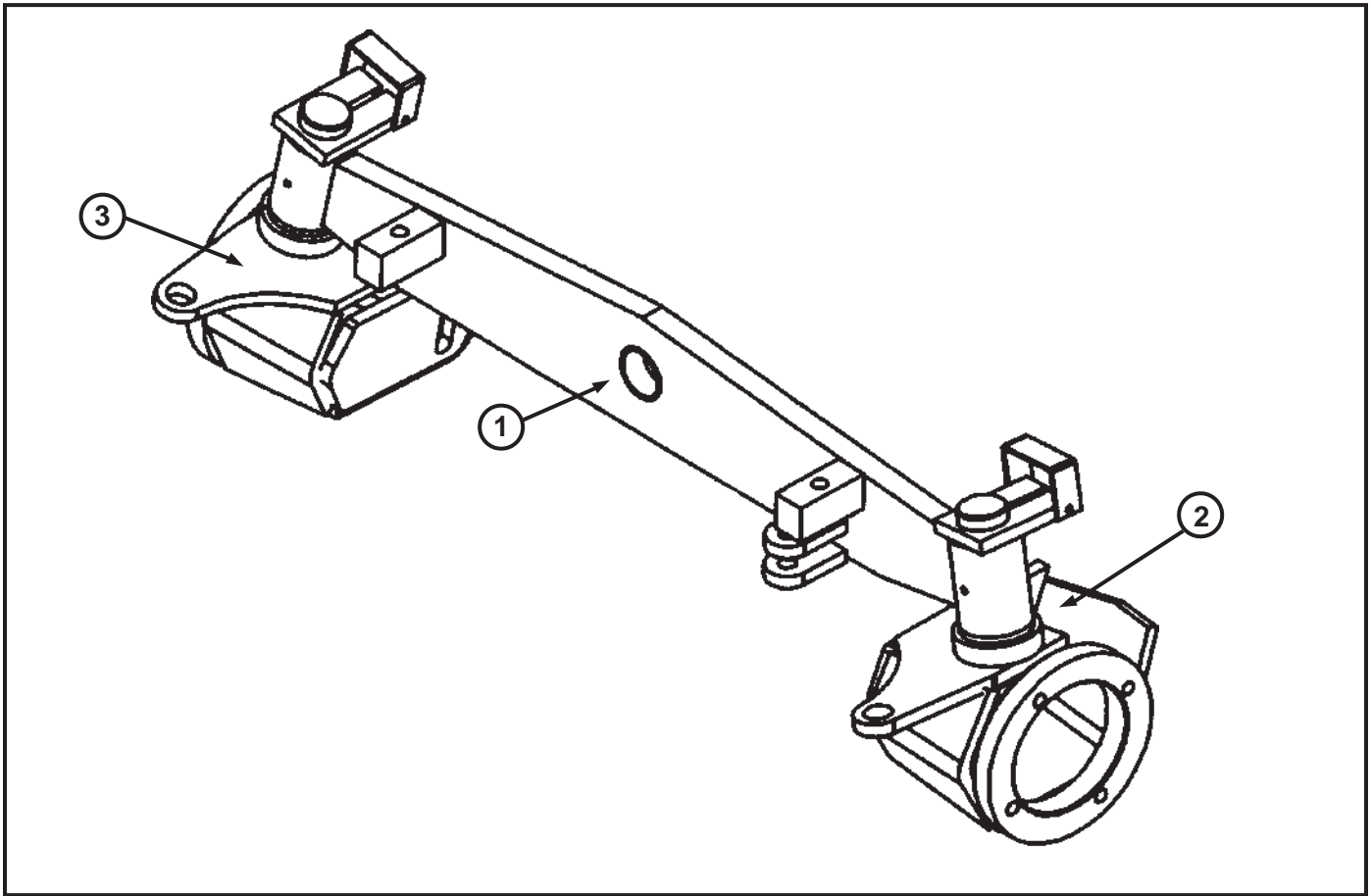


ITEM	QTY	NAME	DESCRIPTION	REV
1	1	53202		
2	2	53215		
3	1	53147		
4	1	53148		
5	2	53603		
6	1	12081		
7	4	28507		
8	4	17280		

TOLERANCES (in.) UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE TO BE HESITANTLY TO THE NEAREST 0.0005 IN. UNLESS OTHERWISE SPECIFIED		TITLE & DESCRIPTION AXLE/A - 4WD, FRONT, T9	
THIS DRAWING IS THE PROPERTY OF TERRAMITE CORPORATION. IT IS TO BE KEPT IN CONFIDENCE AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.		SCALE: DRAWN BY: DATE: 11/14/03 PART/WORKING SCALE: MCR: JPC: 1/8" = 1'-0" SHEET: 53120 1 OF 1	
MFR: C INITIAL: RELEASE OF MACHINE & HUBS C-CHANGE DESCRIPTION	MFR: C DATE: 11/14/03	MFR: C DATE: 11/14/03	MFR: C DATE: 11/14/03

WT. 110 LBS.

View of 4WD Front Axle

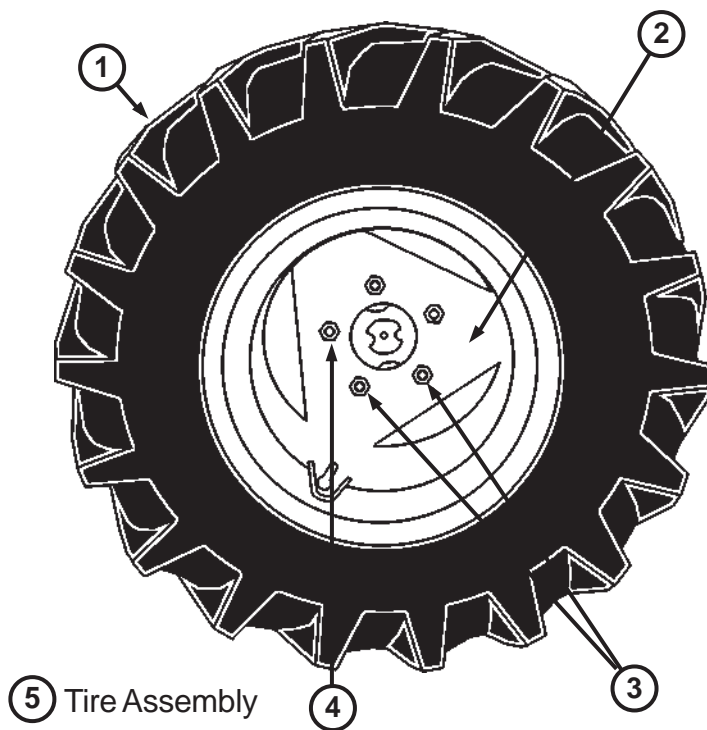
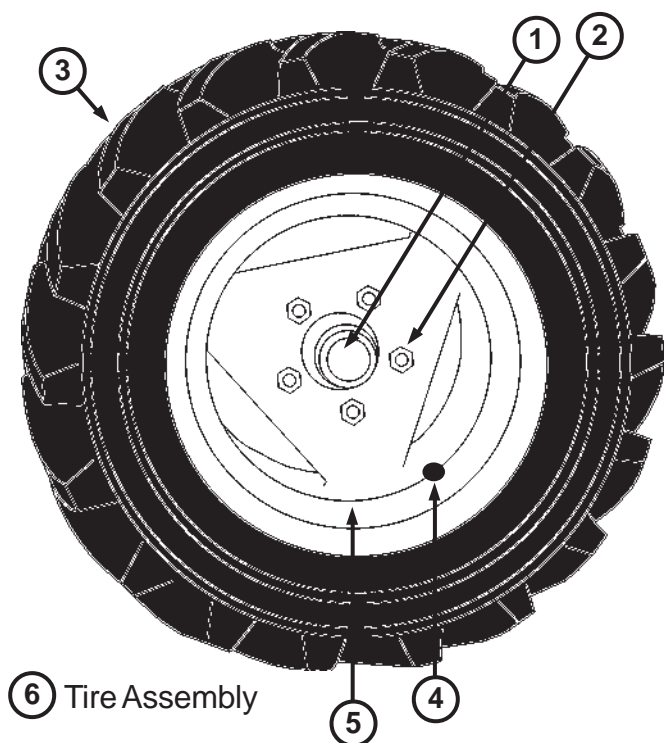


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	53120	Axle/w, 4WD Fr T9, New Cylinder	1
2	53147	Spindle, RH T9 4WD Machintek	1
3	53148	Spindle, LH T9 4WD Machintek	1
Not Shown:			
	62033	Drive Motor Key	
	53079	4WD Hub	
	62032	4WD Shaft Nut	
	53022	Lug Studs	

Parts

View of Right Front Tire and Rim

View of Right Rear Tire and Rim



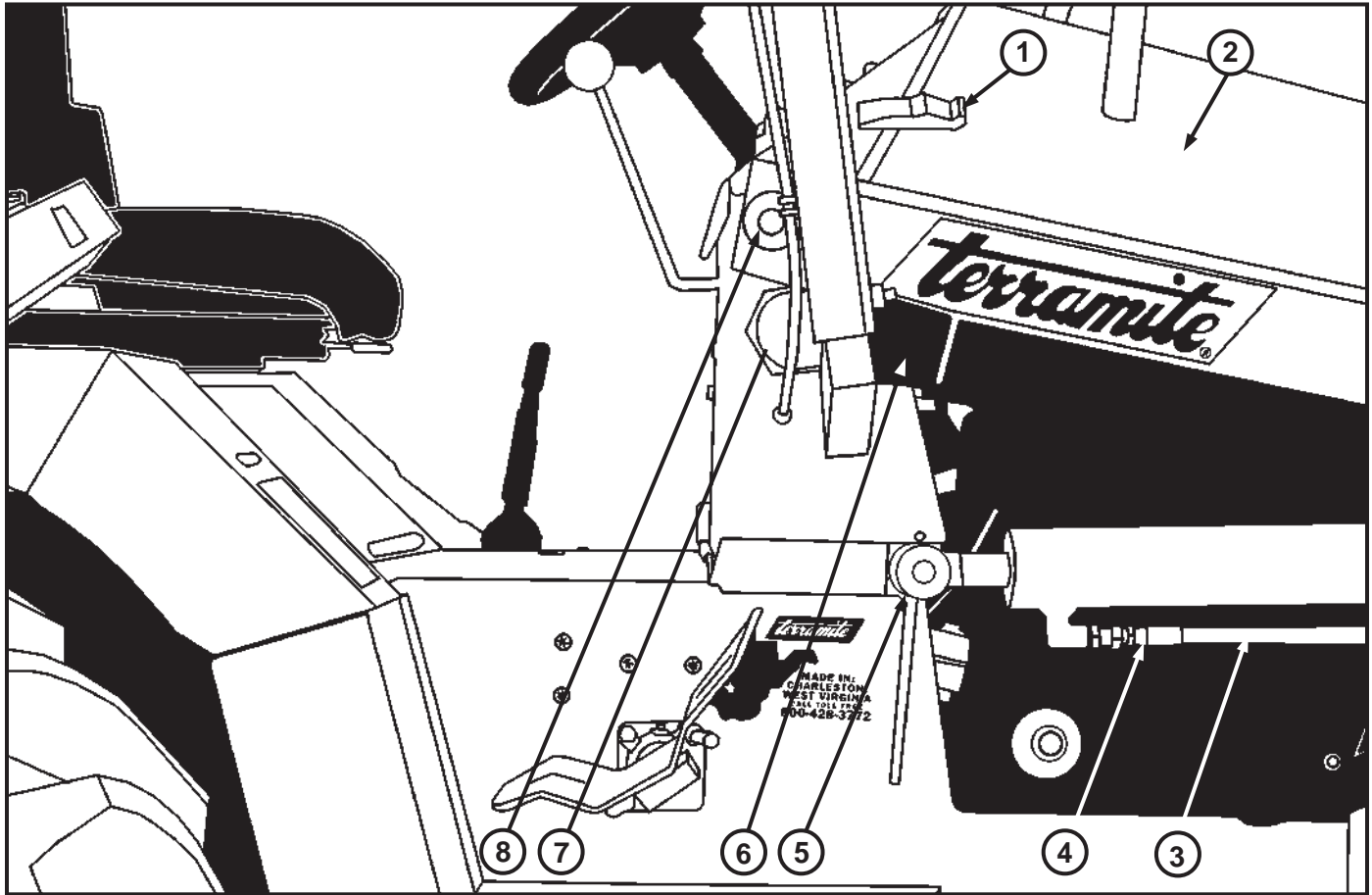
View of Right Front Tire and Rim

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	53170	Cap, Dust, T3/T5C/T5D/T6/T7/T9	1
2	28506	Nut, Lug, 1/2" - 20 ID x 13/16" OD, Front & Rear	5
3	51275	Tire, Front, 23" x 10.5" x 12", T6/T7/T9	1
4	51273	Valve, Tire, Front	1
5	50017	Rim, Front, T5D/T6/T7/T9	1
6	51019	Assembly, Tire & Rim, Front, T6/T7/T9	1

View of Right Rear Tire and Rim

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	51173	Tire, Rear, High Flotation, 31" x 15.5" x 15", T5C/T5D/T6/T7/T9	1
2	50016	Rim, Rear w/guard, 15" x 13", T5C/T5D/T6/T7/T9	1
3	28506	Nut Lug, 1/2" - 20 ID x 13/16" OD, Front & Rear	5
4	55029	Lug Stud, Rear Wheel	5
5	51018	Assembly, Tire & Rim, Rear - HFT, T5C/T5D/T6/T7/T9	1

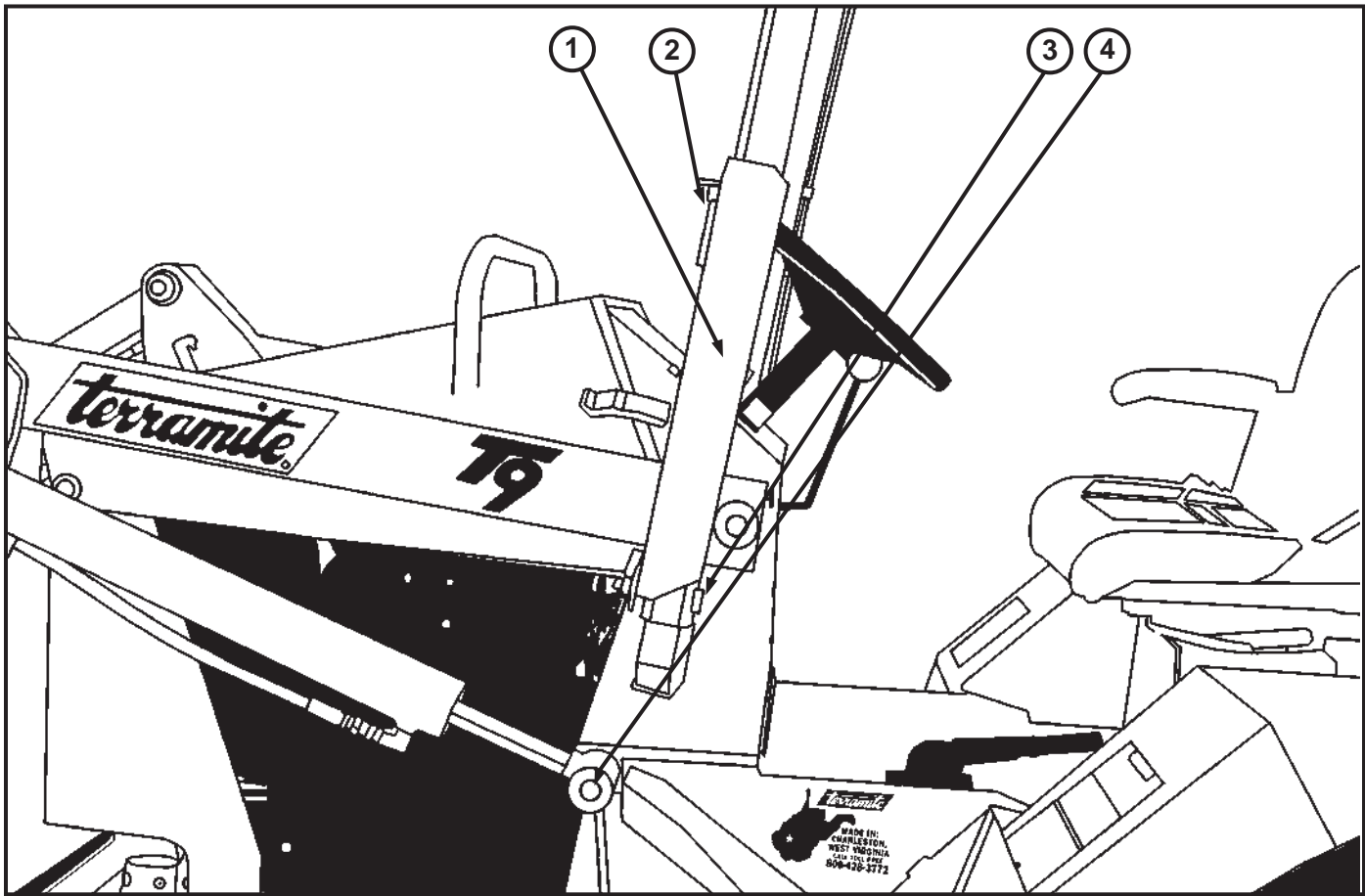
View of Right Side of Tractor



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	15542	Latch, Hood, T5D/T6/T7/T9	1
2	15127	Hood, T6/T9	1
3	80158	Hose, 3/8 x 38"	1
4	20176	Fitting, 3/8" MP x 3/8" FM Swivel	1
5	12301	Pin, 7 7/8", Arm Cylinder, Rod to Frame, T5B/T5C/T5D/T6/T7/T9	1
6	88999	Wrap, Hose, 3" (Sold per Foot)	4
7	80132	Hose, 3/8" x 70"	4
8	12300	Pin, 6 7/8", Arm to Frame, T5B/T5C/T5D/T6/T7/T9	1

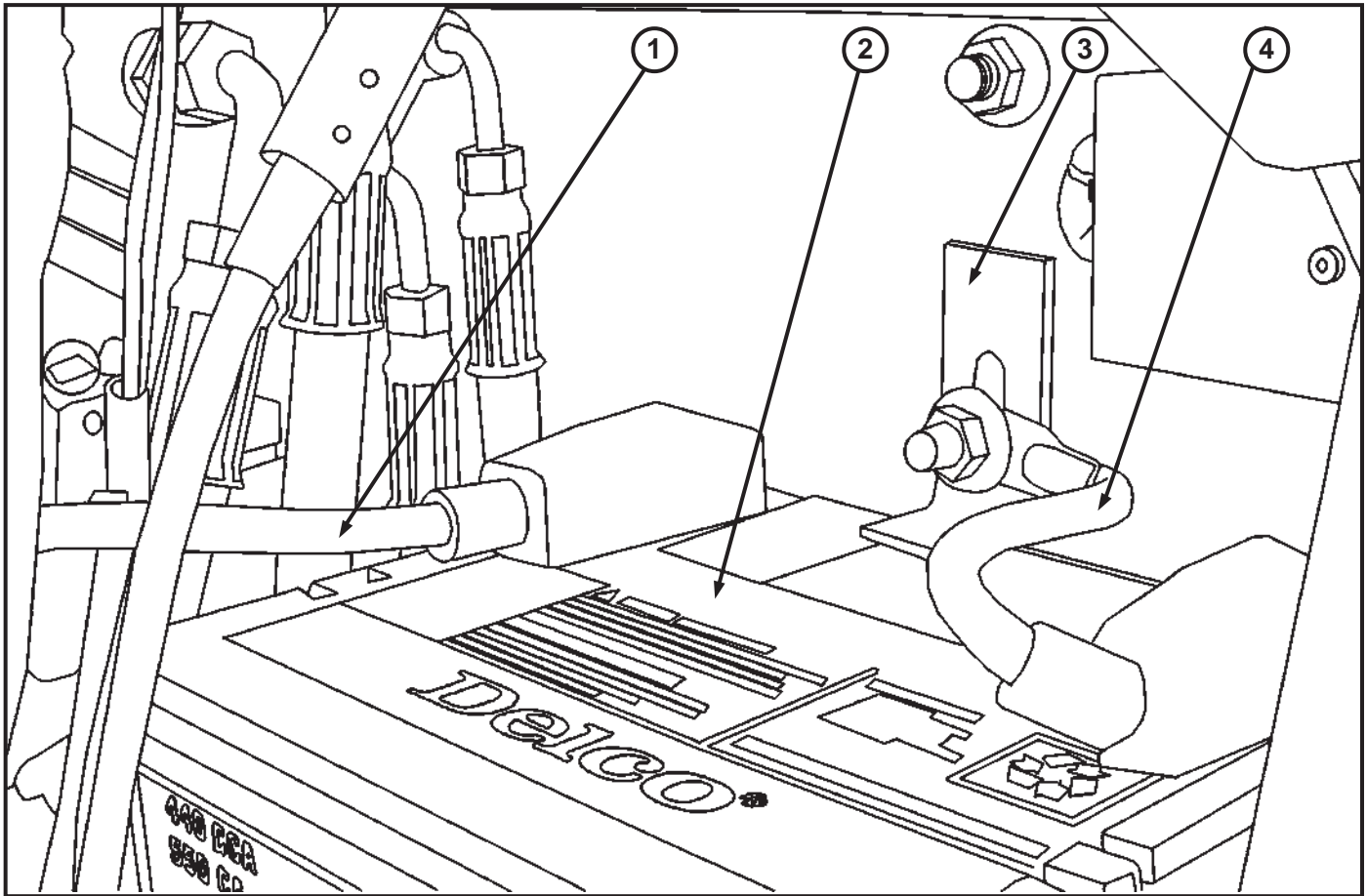
Parts

View of Left Side of Tractor



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	12056	Strut, Lift, Arm, Loader, T5C/T5D/T6/T7/T9	1
2	17200	Pin, Quick Release w/Ring Grip, T5C/T5D/T6/T7/T9	1
3	22109	Bolt, 1/2 x 3 1/2" NC Gr8 Z	1
4	17198	Pin, 8 1/2", Arm Lift Cylinder to Strut, T5C/T5D/T6/T7/T9	1

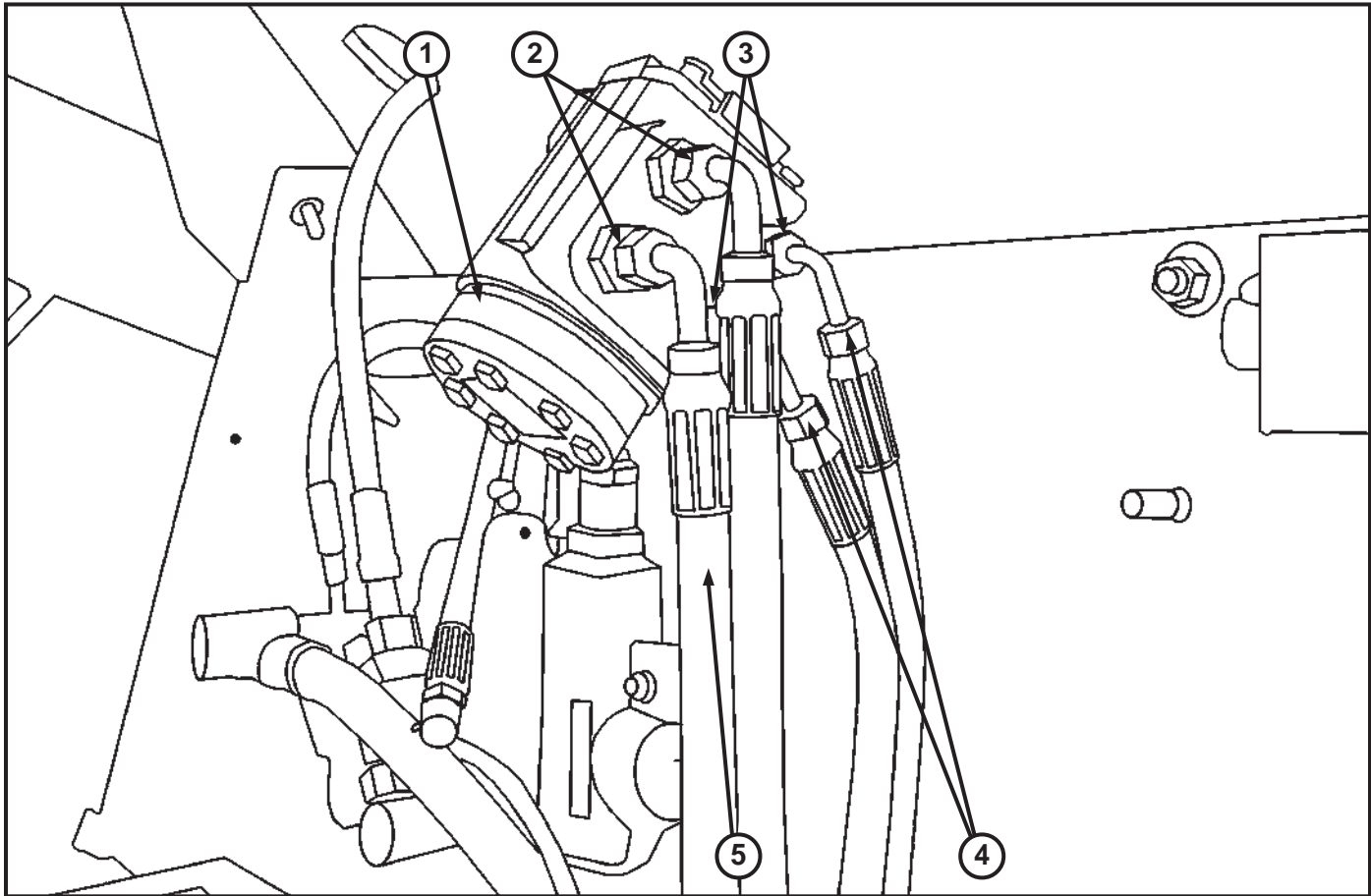
View of Battery from the Left Side of Engine Compartment



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	72038	Cable, Battery to Starter, All Engines, T9	1
2	77022	Battery, Group 26, All Tractors/SCR/Sweeper	1
3	15033	Bracket, Battery Hold Down, T5C/T5D/T6/T7/T9	1
4	72028	Cable, Battery to Ground, Black, T5C/T5D/T6/T7/T9	1

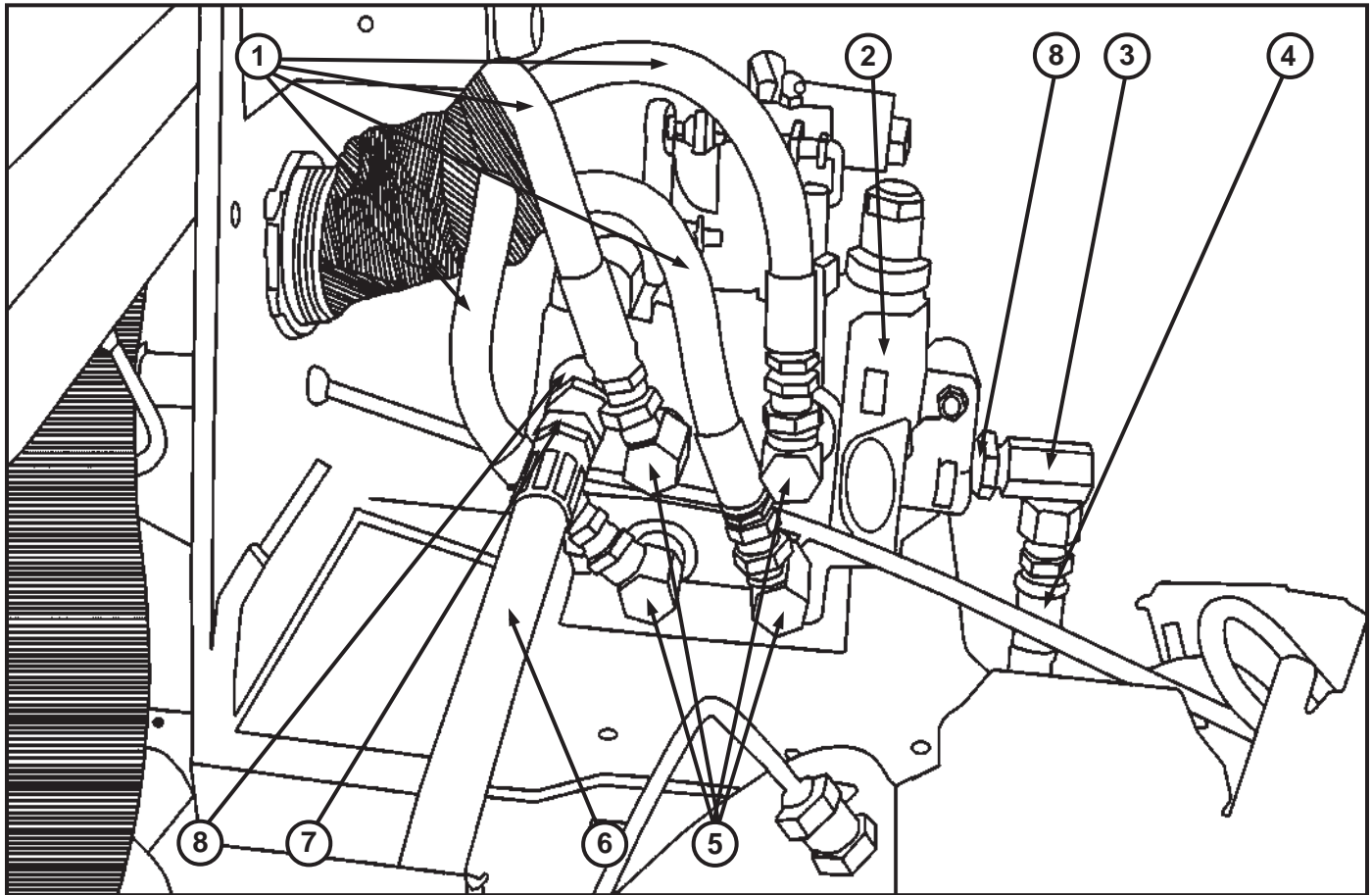
Parts

View of Power Steering Gear



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	15106	Gear, Power Steering, T5D/T6/T7/T9	1
2	20033	Fitting, #8 O-Ring x #6 JIC, T5D/T7/T9/Sweeper	2
3	20032	Fitting, #8 O-Ring x #4 JIC FM	2
4	80176	Hose, 1/4" X 65", 1/4 MP x #4 Short JIC 90	2
5	88658	Hose, 3/8" x 58", #6 Short JIC 90 x 38 MP	2

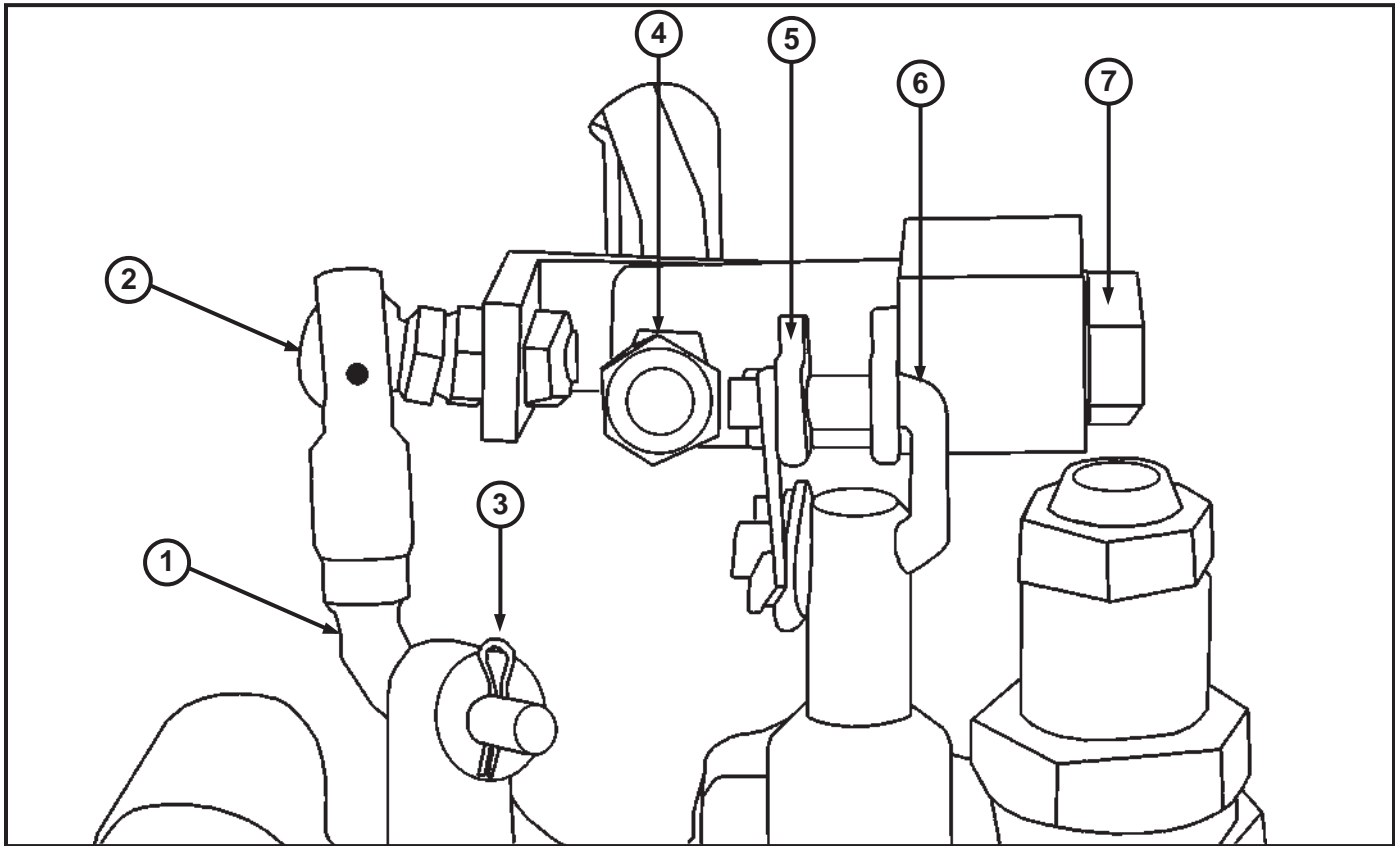
View of Loader Valve Assembly



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	80132	Hose, 3/8" x 70"	4
2	85015	Valve, Front, Drilled and Painted (No Fittings)	1
3	21978	Fitting, 1/2" M 90 x 1/2" FSW	2
4	88880	Hose, 1/2" x 80"	1
5	20786	Fitting, 1/2" MP x 3/8" FSW 90D	4
6	88831	Hose, 1/2 x 31"	1
7	20004	Fitting, 1/2" MP x 1/2" FSW	1
8	20094	Fitting, Reducer, 3/4" x 1/2" FM	1

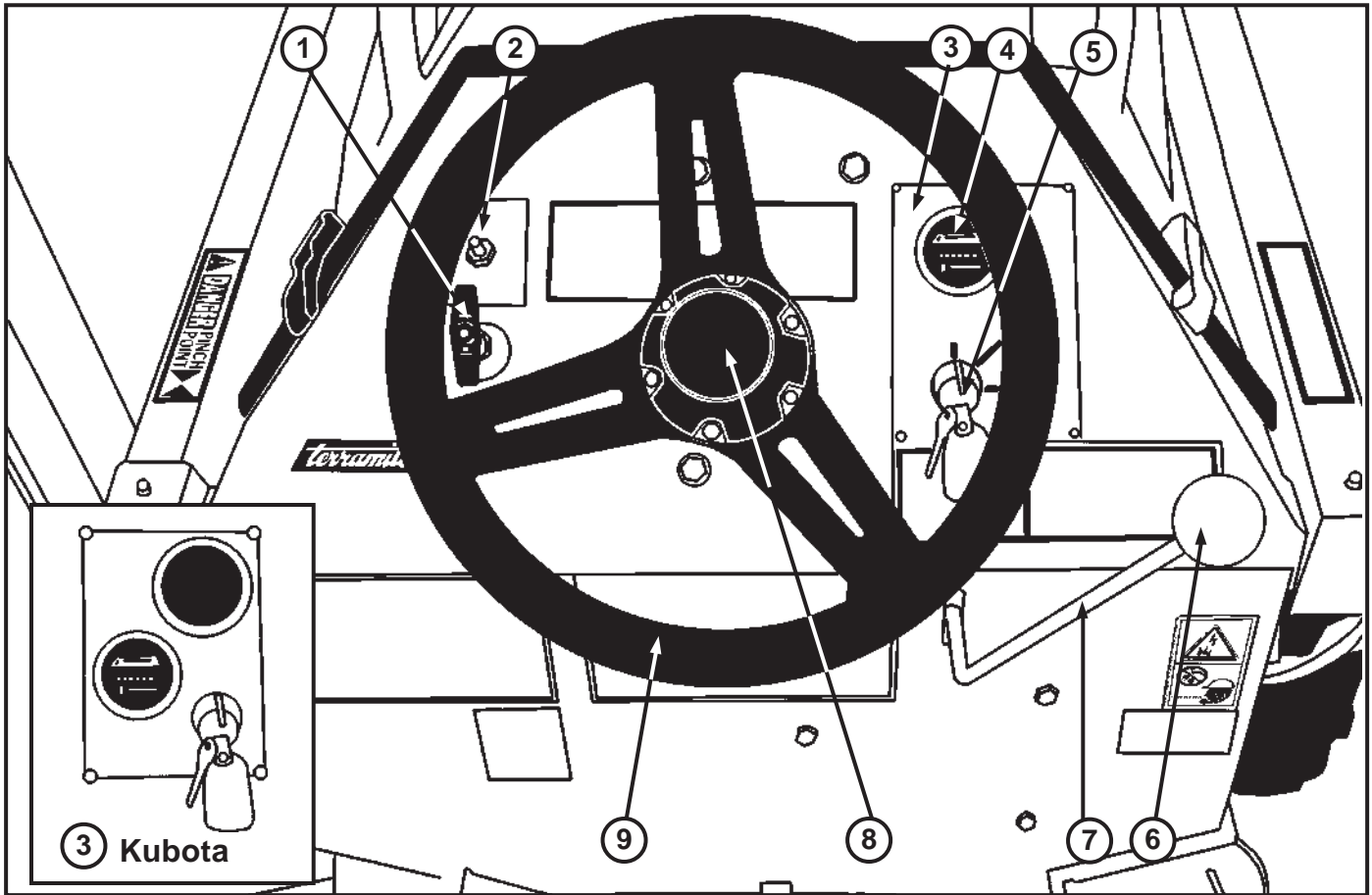
Parts

View of Front Valve Linkage Assembly



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13947	Link, "L", Front Valve, All Tractors	1
2	13965	Linkage, Ball-Socket, Wobblestick, All Tractors	1
3	13413	Pin, Cotter, ³ / ₃₂ " x ⁵ / ₈ ", Linkage, Valve, All Tractors	1
4	25500	Nut, ⁵ / ₁₆ " - 24 NF Jam	1
5	13944	Block, Pivot, Wobblestick, Front, T5C/T5D/T6/T7/T9	1
6	13411	Link, "U", Valve, All Tractors	1
7	13995	Bolt, Wobblestick Hinge, Front, All Tractors	1

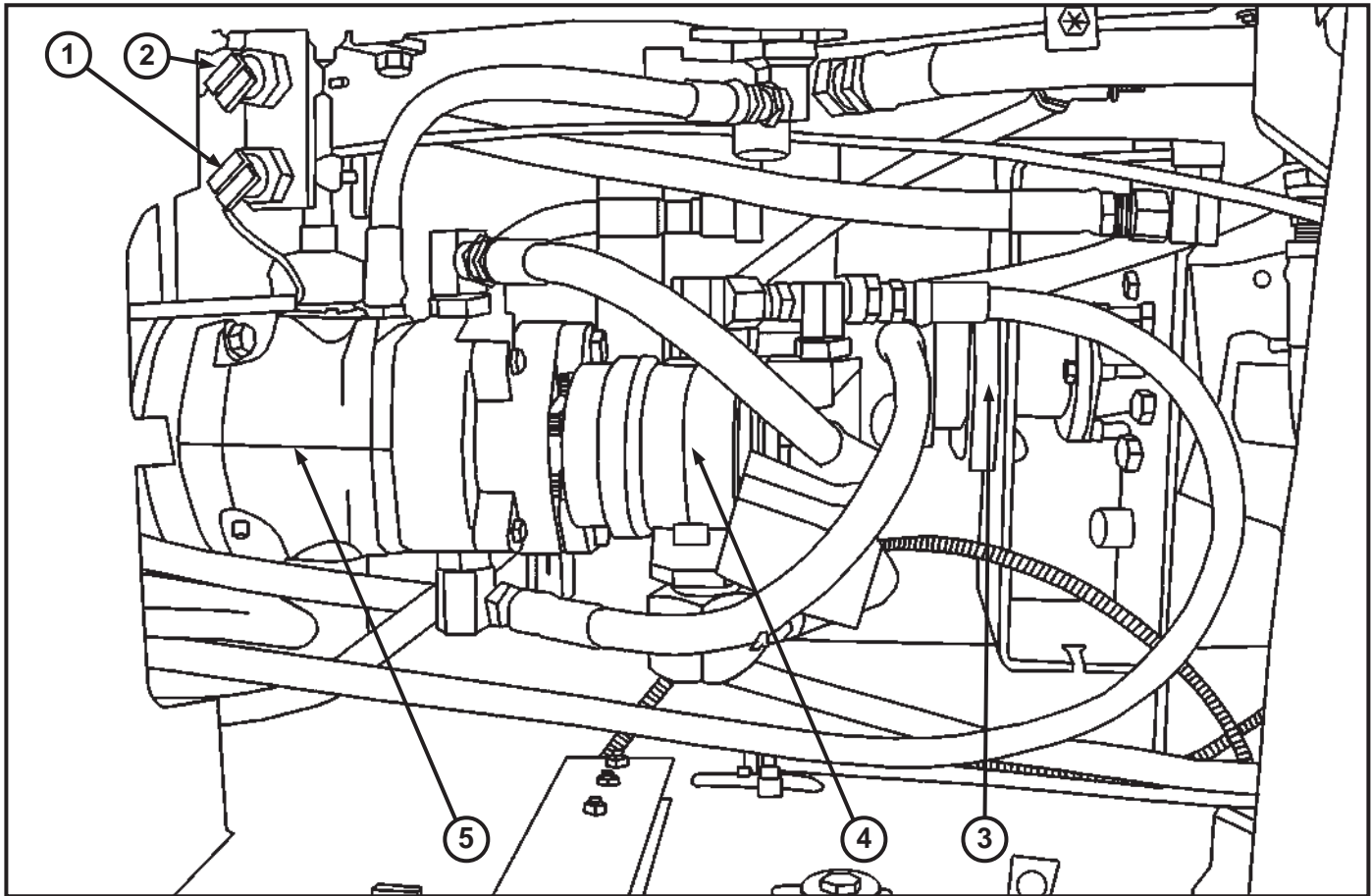
View of Operator Position Facing Dash



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13140	Cable, Throttle, Diesel, T7/T9	1
2	74000	Switch, Toggle, Double Throw, T5D/T6/T7/T9	1
3	71016	Harness, Wiring, Dash, 55 Amp, Diesel, T6/T9	1
4	77080	Hourmeter, All Tractors	1
5	70335	Switch, Ignition, T6/T9	1
	70111	Switch, Ignition, T6/T9 (after SN 229x0120)	
6	13942	Knob, Red, Wobblestick Handle, Valve, All Tractors	1
7	13072	Handle, Wobblestick, Front, All Tractors	1
8	13136	Cap, Center, Steering Wheel	1
9	13003	Wheel, Steering, T5C/T5D/T6/T7/T9	1

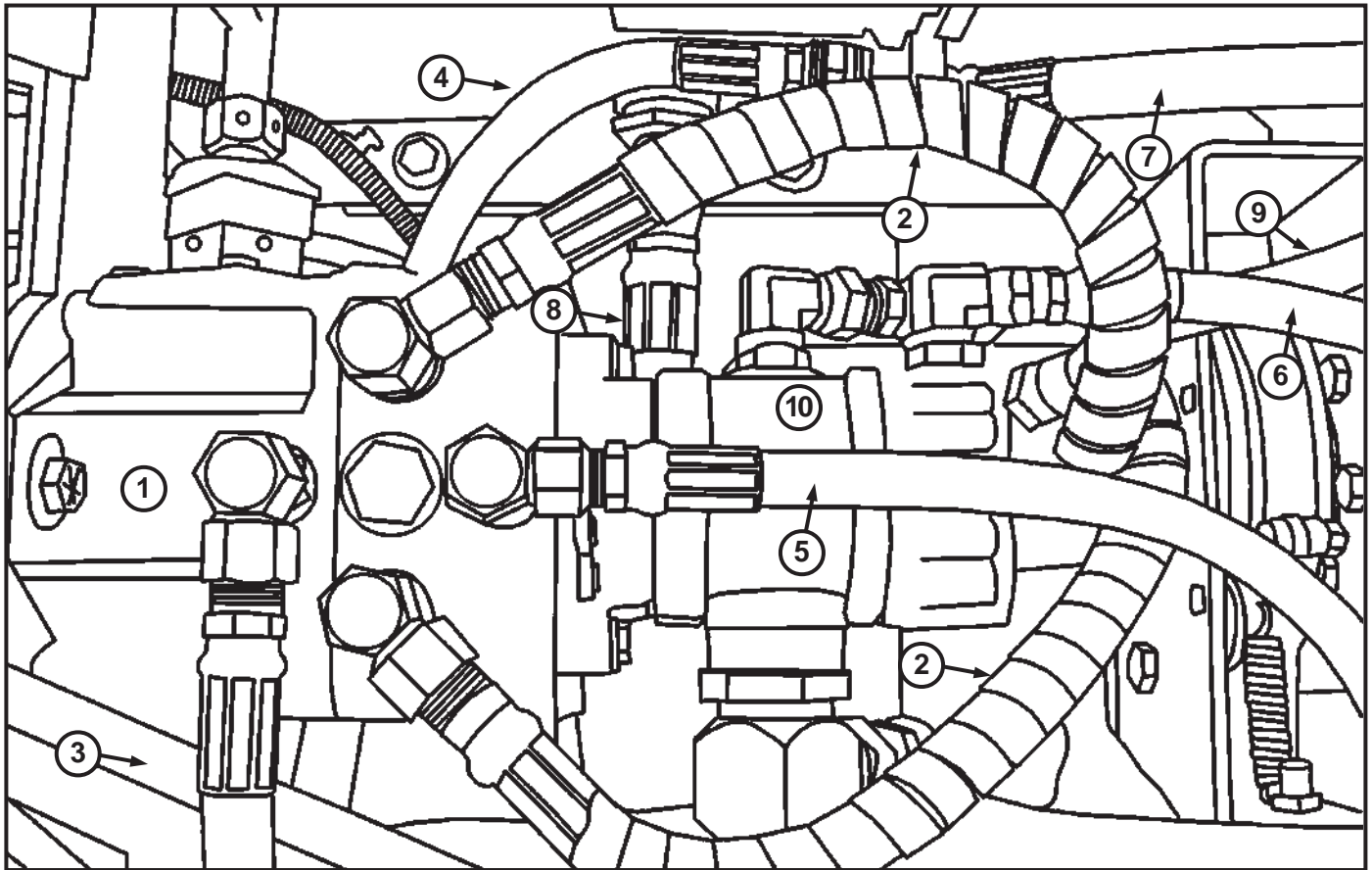
Parts

View of 2WD Transmission Assembly



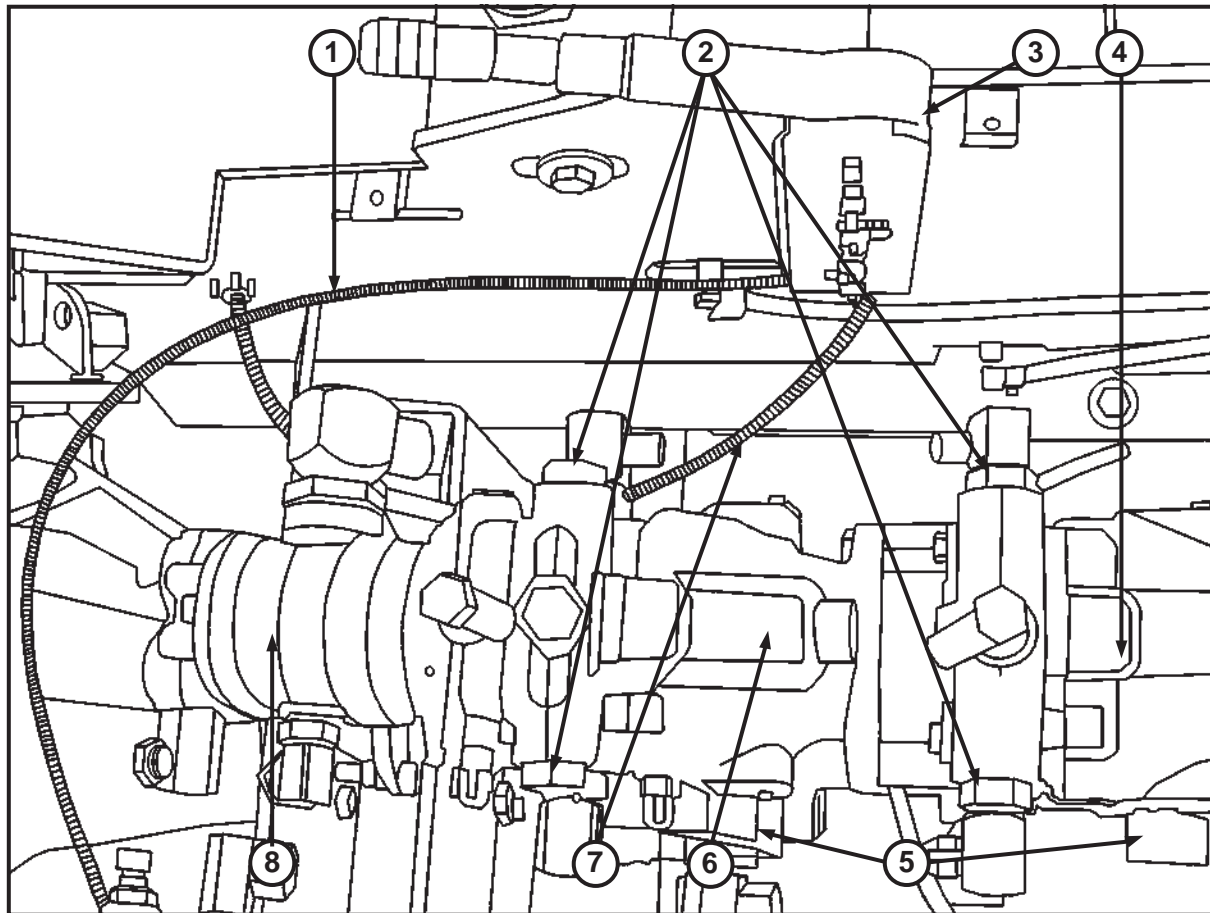
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	75200	Switch , Alarm, Backup, Electric, T7/T9	2
2	70000	Switch, Neutral, T7/T9	2
3	64003	Motor, Torque, Parker/TRW, T5C/T5D/T6/T7/T9	1
4	66007	Pump, Double Gear, T6/T9 2WD	1
5	64011	Transmission, T6/T9 2WD	1

View of 2WD Sunstrand Transmission Assembly



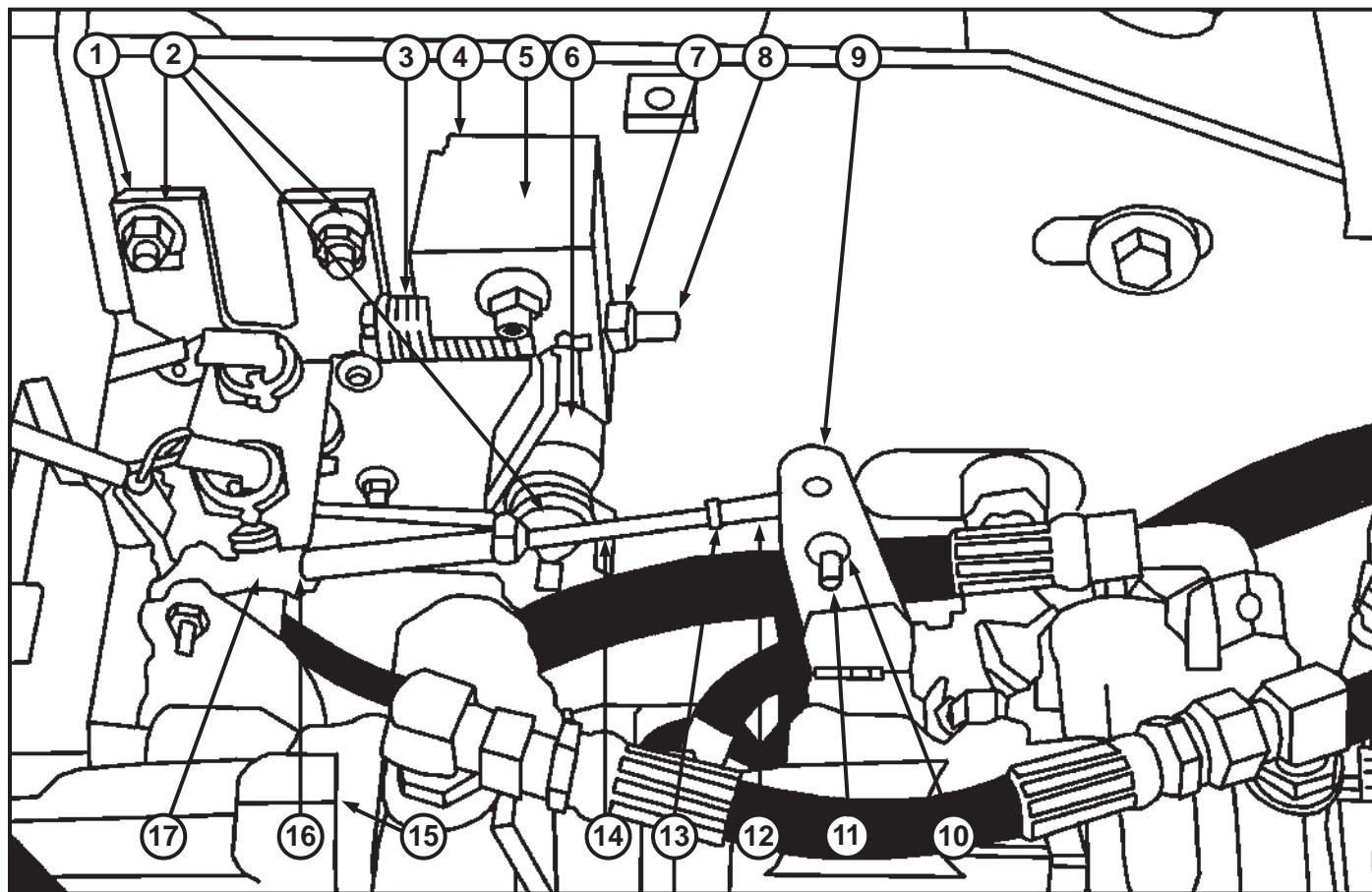
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	64200	Transmission	1
2	88820	Hose, 1/2" x 20"	2
3	80233	Hose, 1/2" x 80"	1
4	88831	Hose, 1/2" x 31"	1
5	88465	Hose, 1/4" x 65"	1
6	80201	Hose, 1/2" x 57"	1
7	88827	Hose, 3/4" x 27"	1
8	81624	Hose, 1 x 24"	1
9	88658	Hose, 3/8" x 58"	1
10	66007	Pump, Double Gear	1
	80228	Hose Set	

View from Top of Transmission Assembly 4WD



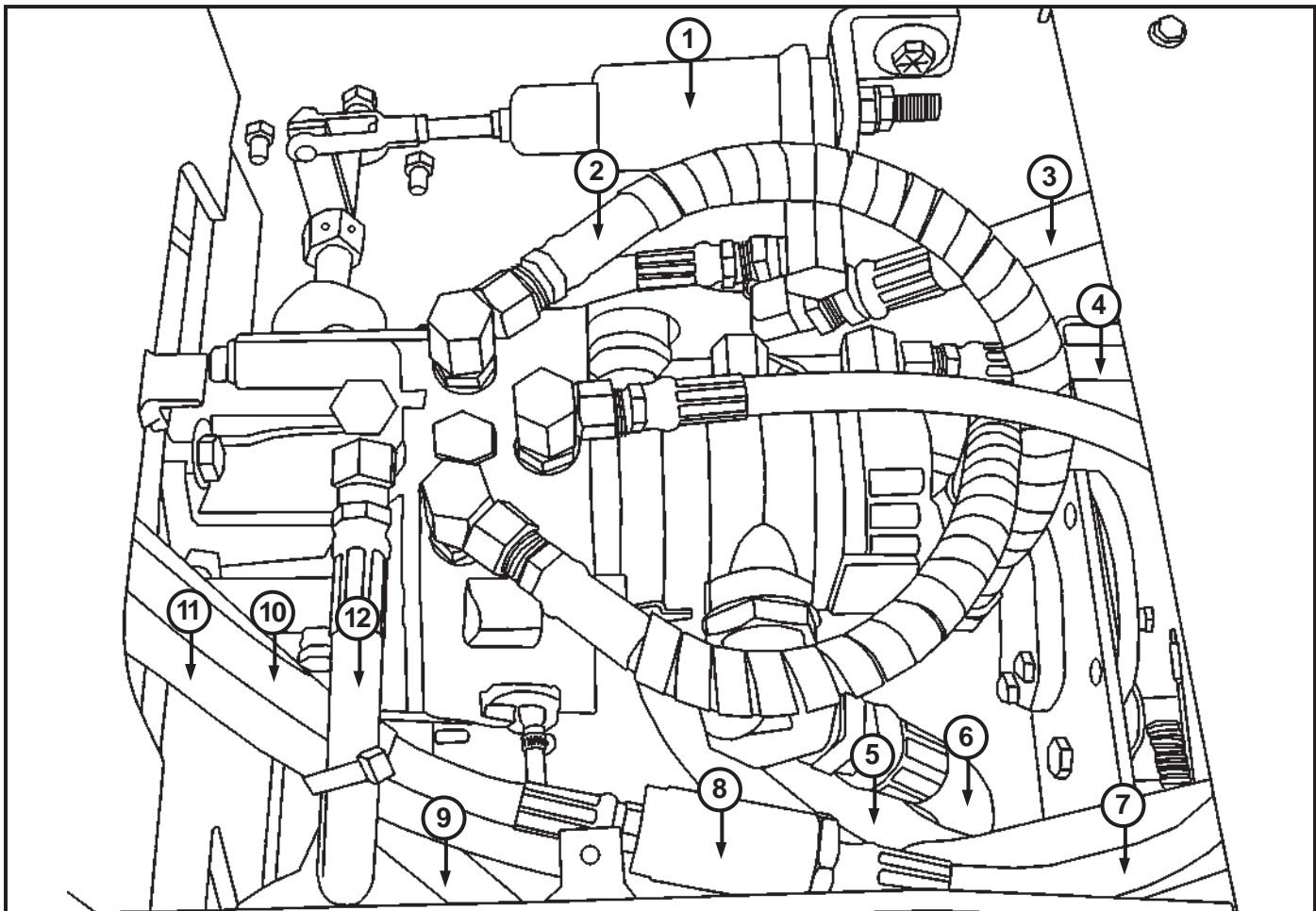
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13021	Cable, Brake, Long, T6/T9	1
2	60467	Valve, Relief	1
3	13001	Lever, Brake, T6/T9	1
4	64010	Transmission, Tandem Pump, T6 4WD	1
5	13054	Block, Transmission, Pintle, Eaton	1
6	64011	Transmission, T6/T9 2WD	1
7	13020	Cable, Brake, Short, T6/T9	1
8	66007	Pump, Double Gear, T6/T9 2WD	1
	64001	Trans. Seal Kit 4WD	1

View of Cam Roller Center Spring 4WD



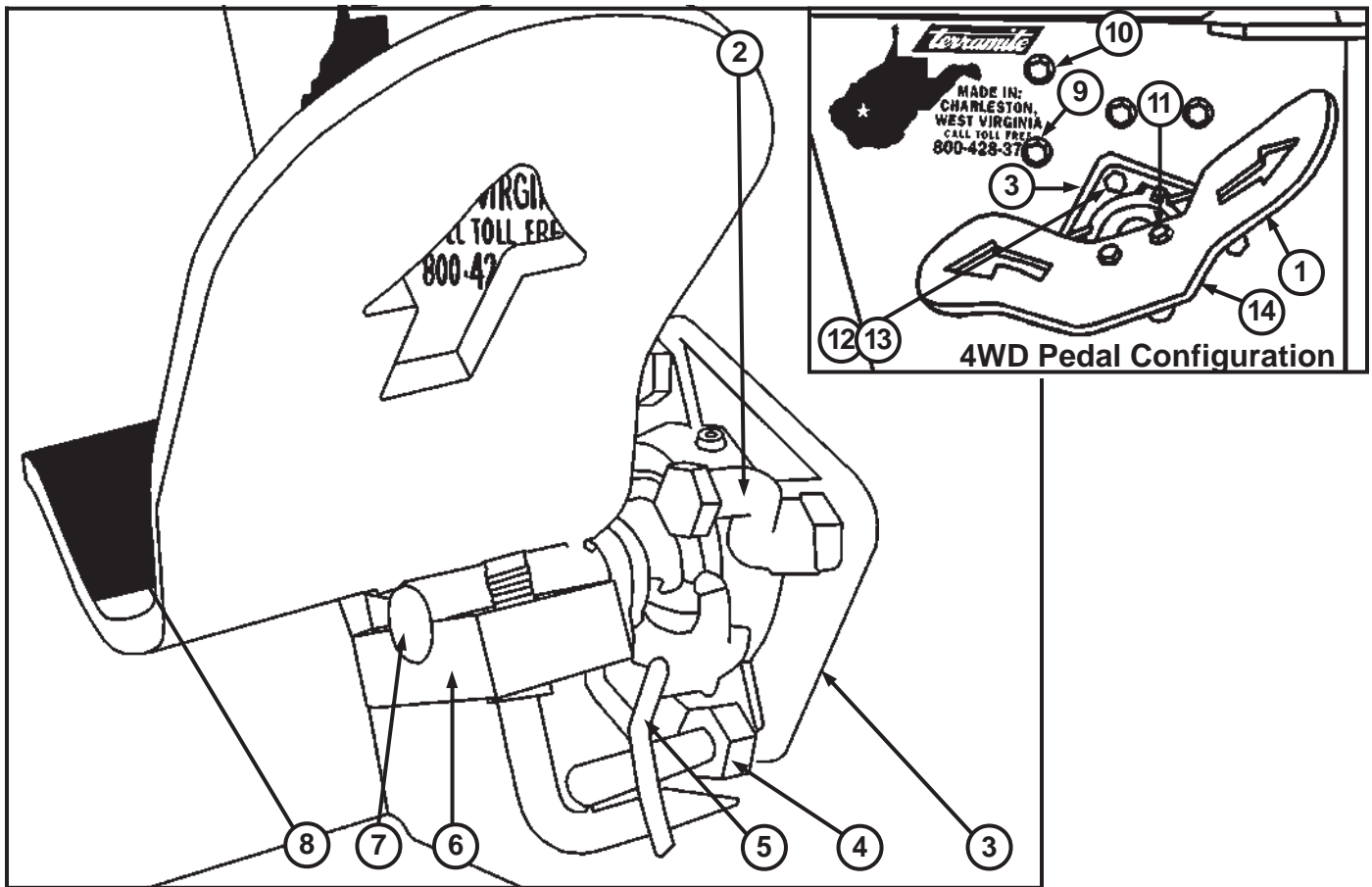
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13034	Bracket, Switch, Neutral Safety, T5D/T6/T7/T9	1
2	20082	Nut, ³ / ₈ " NC Flange Z	4
3	13017	Spring, Pedal, T6/T9 4WD	1
4	13009	Block, Cam, T6/T9 4WD	1
5	13010	Plate, Cam, T6/T9 4WD	1
6	13018	Bearing, Pedal Yoke-Cam, T6/T9 4WD	1
7	23008	Nut, ³ / ₈ " - 24 NF Lock	1
8	22012	Bolt, ³ / ₈ " - 24 x 4" NF Gr8 ZP	1
9	13055	Link, Transmission Control, T6/T9 4WD	1
10	28504	Nut, ¹ / ₄ " NC Lock Z	2
11	22067	Bolt, ¹ / ₄ " x 1 ¹ / ₂ " NC Gr8	2
12	13032	Ball Joint, ¹ / ₄ " - 28 Right Hand Thread	1
13	22078	Nut, Jam, ¹ / ₄ " - 28 NF Right Hand Thread	1
14	64068	Rod, Linkage Control, T6/T9 4WD	1
15	64002	Transmission, Tandem Pump, T6/T9 4WD	1
16	22079	Nut, Jam, ¹ / ₄ " - 28 NF Left Hand Thread	1
17	13030	Ball Joint, ¹ / ₄ " - 28 Left Hand Thread	1

View of T9 2WD Transmission Assembly



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	11128	Spring Assembly	1
2	88820	Hose, 1/2" x 20"	2
3	88827	Hose, 3/4" x 27"	1
4	80201	Hose, 1/2" x 57"	1
5	66007	Gear Pump	1
6	81624	Hose, 1" x 24"	1
7	80250	Hose, 3/8" x 25"	1
8	21032	Filter, In Line Hydraulic	1
9	80233	Hose, 1/2" x 80"	1
10	80251	Hose, 3/8" x 25"	1
11	88659	Hose, 3/8" x 58"	1
12	88831	Hose, 1/2" x 31"	1
13	80232	Hose, 1/2" x 47" Oil Filter to Back Valve (Not Shown)	1
14	80229	Hose, 1/2" x 123" Oil Cooler to Oil Filter (Not Shown)	1
15	80099	Hose, 1/2" x 96" Front Valve to Oil Cooler (Not Shown)	1
16	80230	Hose, 1/4" x 65" Power Steering (Not Shown)	2
	64200	Sauer - Danfoss Transmission	1

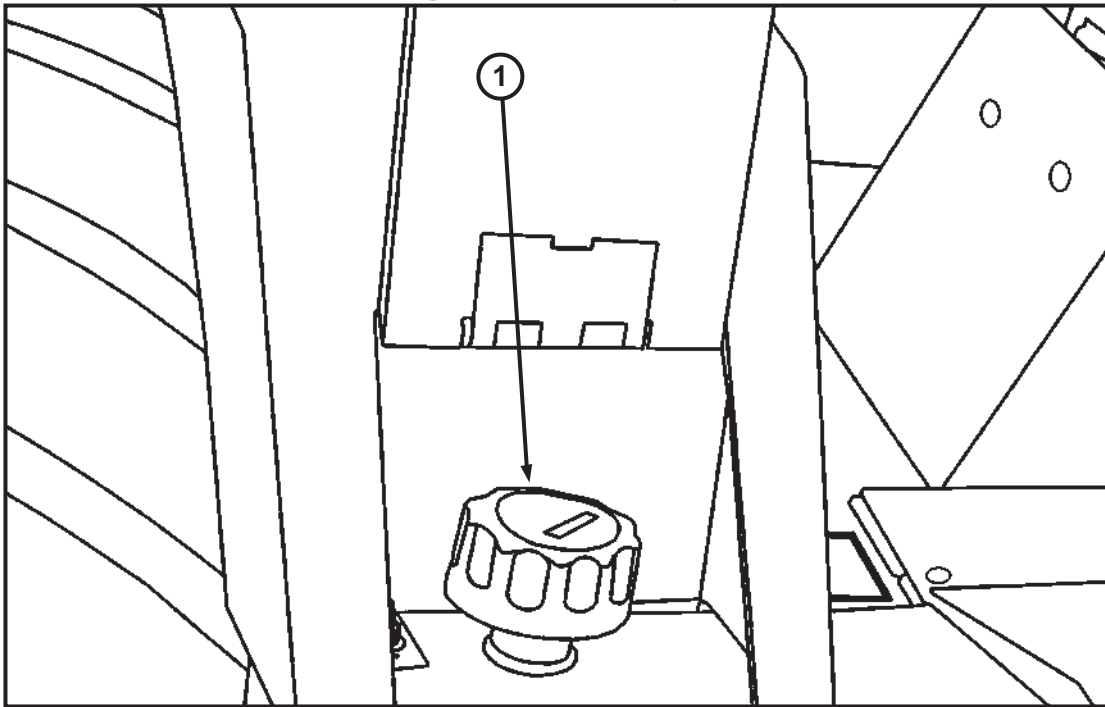
View from Right of Foot Pedal Control



ITEM	PART NUMBER	DESCRIPTION	QTY.
2 WHEEL DRIVE			
1	11600	Pedal, Foot	1
2	10139	Bolt, Pedal Stop, T6/T9	2
3	11627	Block, Pillow, Bearing, T5C/T5D/T6/T7/T9	1
4	10140	Bolt, Spring Centering, T6/T9	1
5	13029	Spring, Pedal, Hairpin, T5C/T5D/T6/T7/T9	1
6	11610	Block, Pedal, T5C/T5D/T6/T7/T9	1
7	11620	Shaft, Pedal, T5C/T5D/T6/T7/T9	1
8	16177	Tape, Pedal, Anti-Skid	1
4 WHEEL DRIVE			
9	22008	Bolt, ³ / ₈ " - 16 x 1" Gr8, Z	1
10	22006	Bolt, ³ / ₈ " - 16 x 3 ¹ / ₄ " Gr8, Z, T6/T9	1
11	22016	Bolt, ³ / ₈ " x 1 ¹ / ₂ " NC Gr5	2
12	22036	Bolt, ³ / ₈ " - 16 x 1 ¹ / ₄ " NC Gr5, Z	4
13	23001	Nut, ³ / ₈ " - 16 NC Lock Z	2
14	13057	Shaft, Pedal, T6/T9 4WD (Not Shown)	1

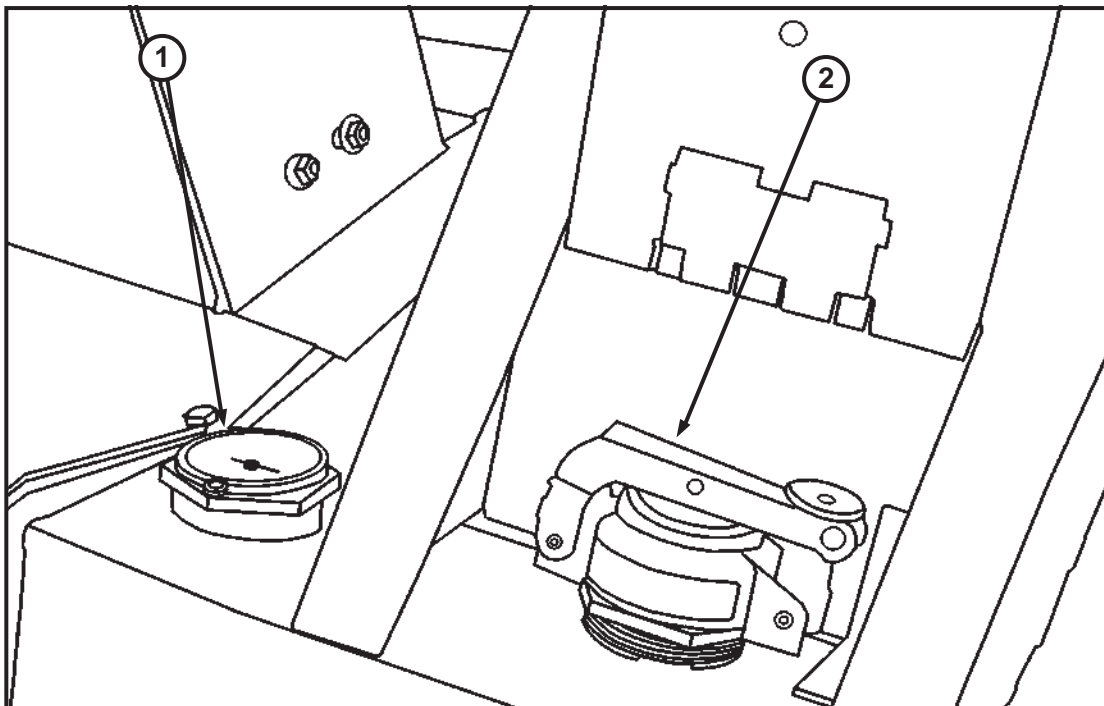
Parts

View from Right Side of Hydraulic Tank



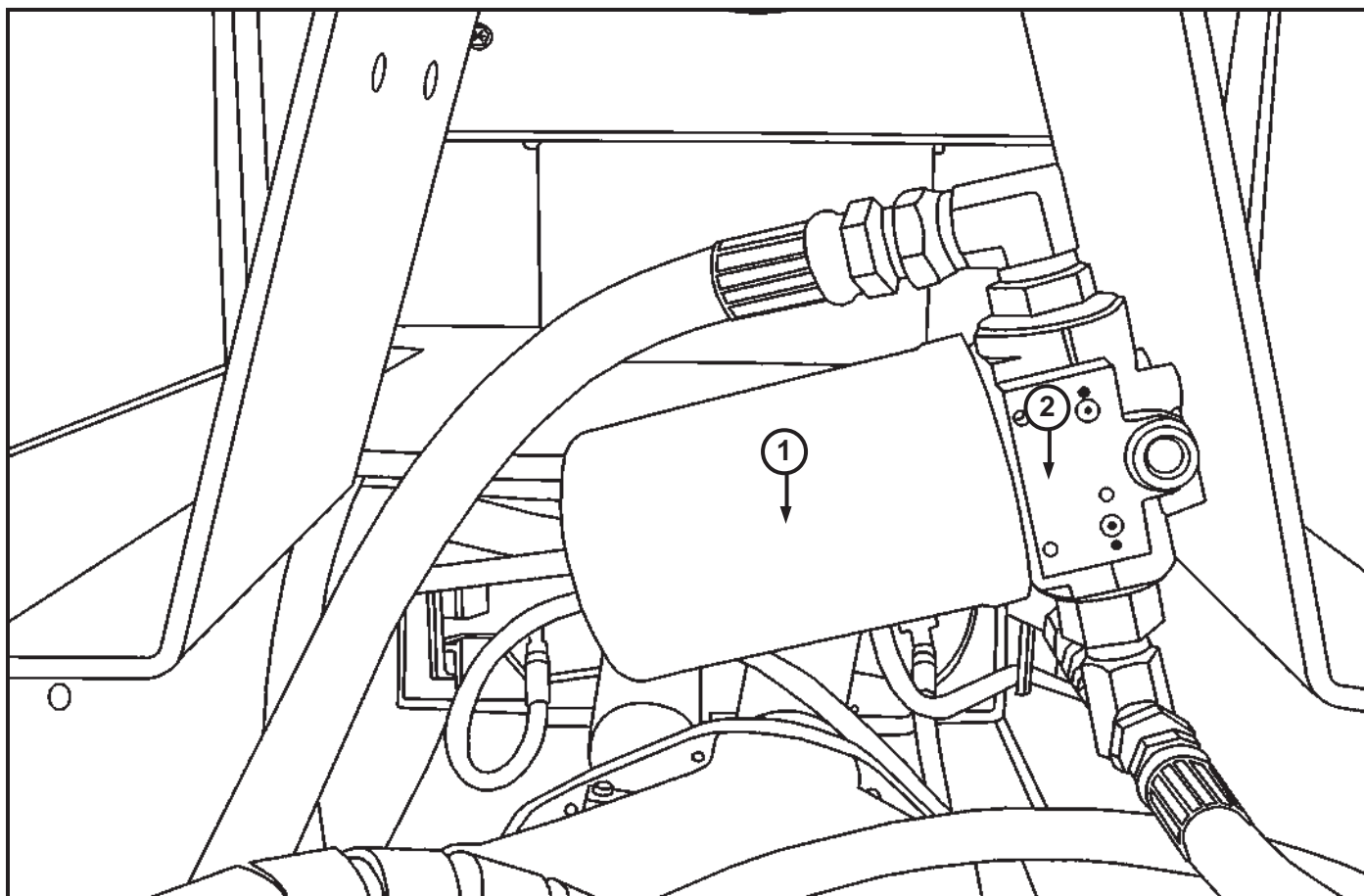
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	22204	Cap, Hydraulic, w Dipstick & Breather, T5C/T5D/T6/T7/T9 2WD	1

View from Left Side of Fuel Tank



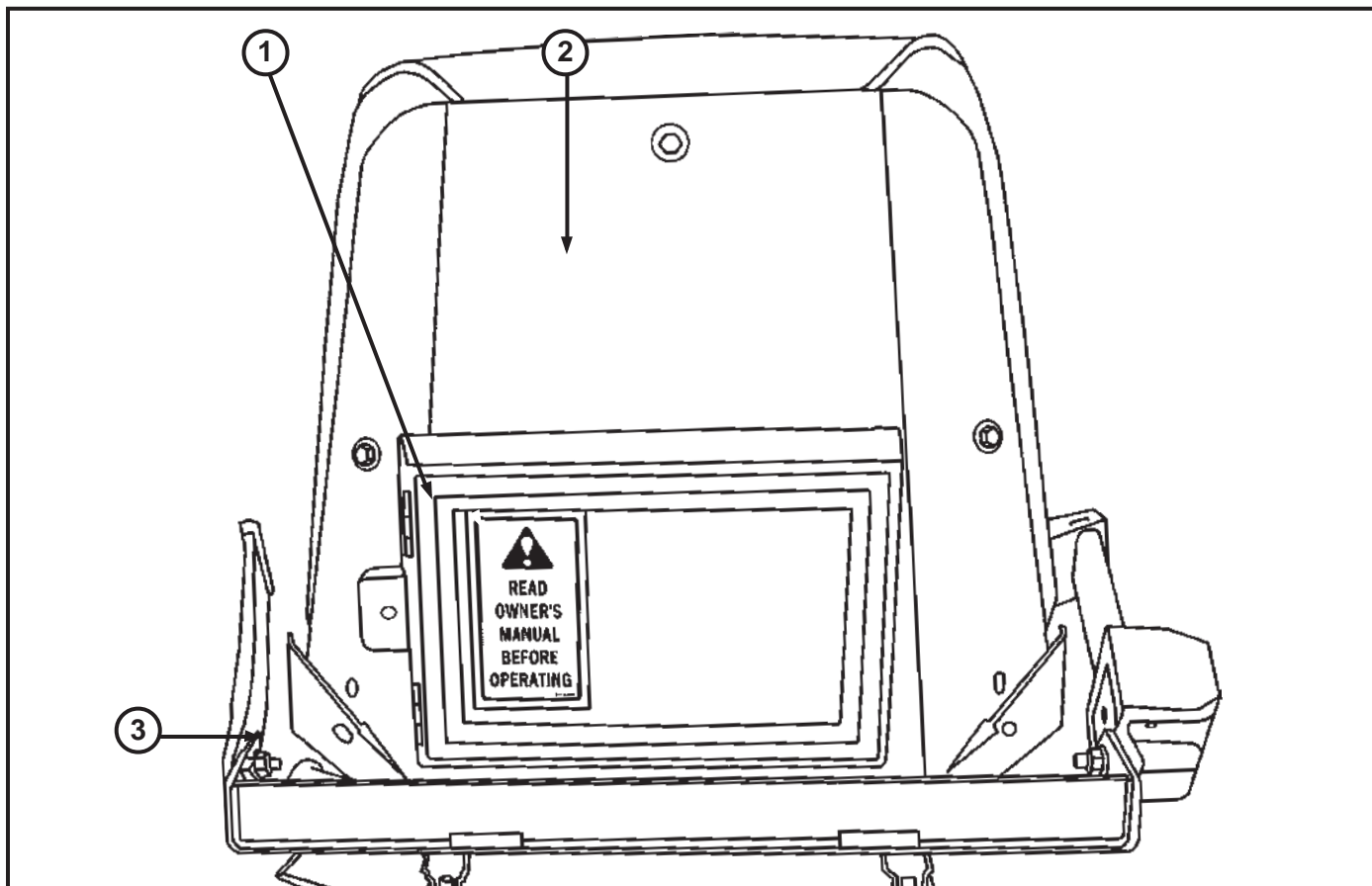
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	11299	Gauge, Fuel, T5D/T6/T7/T9	1
2	15005	Cap, Safety, Green, Diesel, T5C/T5D/T6/T7/T9	1

View of Hydraulic Filter Assembly



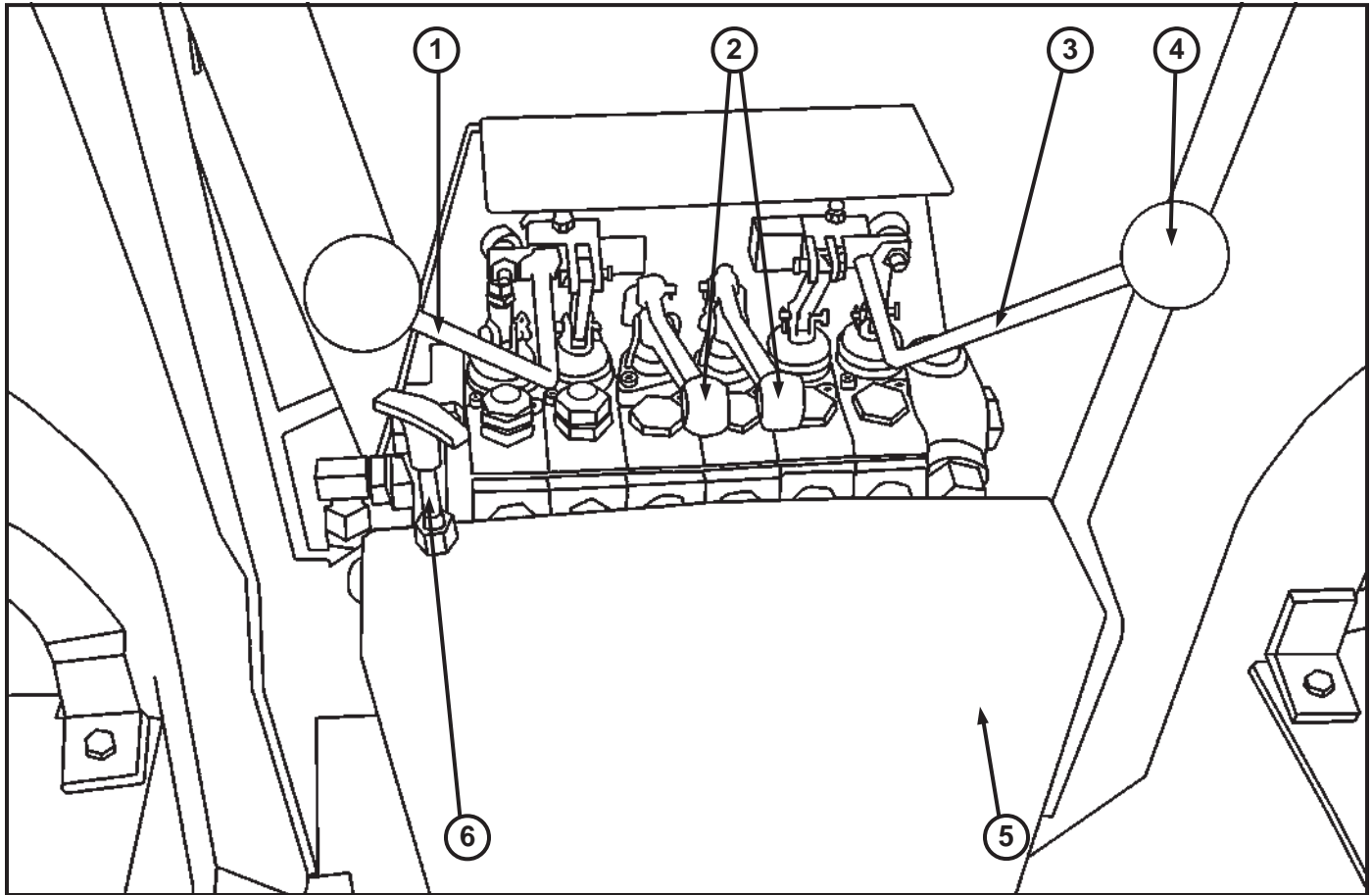
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	21030	Filter, Hydraulic	1
2	21029	Head, Filter	1

View from Back of Seat



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	11911	Box, Manual, Operator's Seat	1
2	14260	Assembly, Seat, w/Swivel Disc w/Arm, T5D/T6/T9	1
3	14011	Knob, Seat Shaft, NOT SHOWN	1

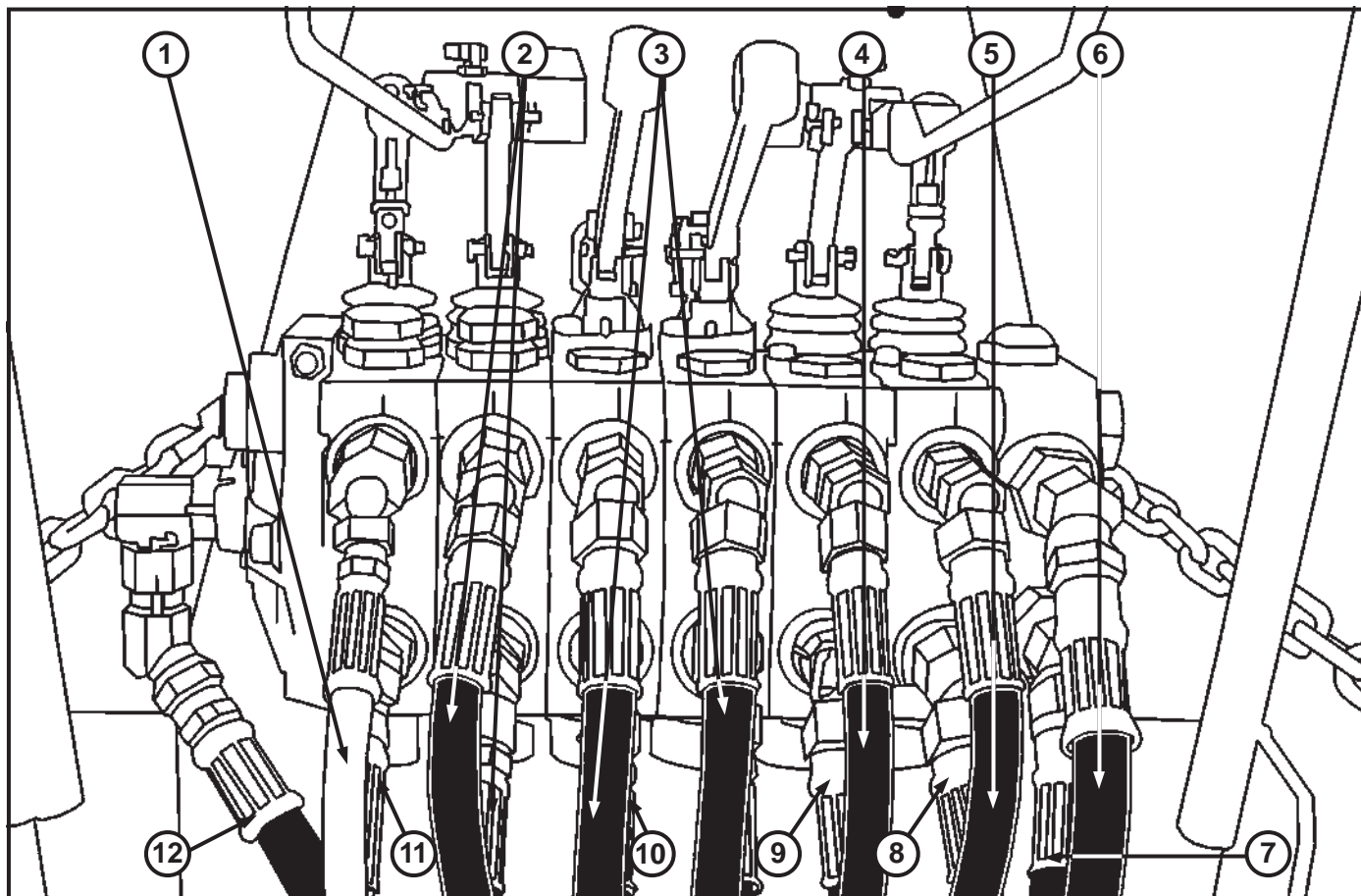
View of Operator Position at Rear Valve



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13073	Handle, Wobblestick, Left Rear, T5C/T5D/T6/T7/T9	1
2	13431	Handle, Outrigger, T5C/T5D/T6/T7/T9	2
3	13123	Handle, Wobblestick, Right Rear, T5C/T5D/T6/T7/T9	1
4	13942	Knob, Red Wobblestick Handle, Valve, T5C/T5D/T6/T7/T9	2
5	15102	Cover, Rear Valve (Boom Latch), T5C/T7/T9	1
6	13135	Cable, Boom Latch Control, T-Handle, T7/T9	1
Not Shown:			
	22222	Boom Latch Spring	1
	28956	Boom Latch Washer	1

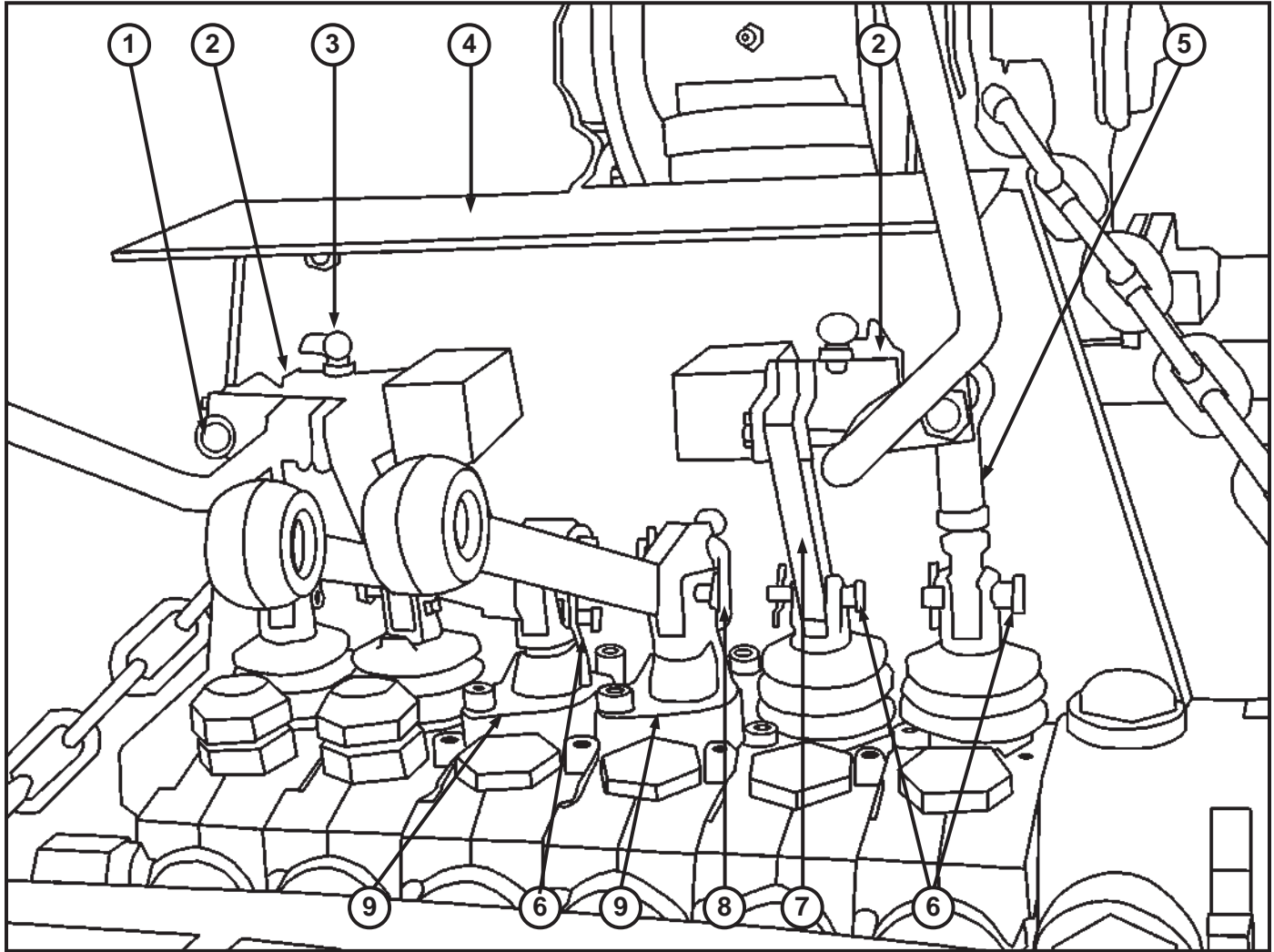
Parts

View from Operator Position of Rear Valve (Continued)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	88425	Hose, 1/4" x 25"	1
2	88666	Hose, 3/8" x 66"	2
3	88652	Hose, 3/8" x 52"	2
4	88688	Hose, 3/8" x 88"	1
5	86142	Hose, 3/8" x 142"	1
6	88840	Hose, 1/2" x 40"	1
7	88857	Hose, 1/2" x 57" (2 Wheel Drive)	1
	88845	Hose, 1/2" x 45" (4 Wheel Drive)	
8	80075	Hose, 3/8" x 125"	1
9	86101	Hose, 3/8" x 101"	1
10	80000	Hose, 3/8" x 36"	2
11	88420	Hose, 1/4" x 20"	1
12	88880	Hose, 1/2" x 80"	2

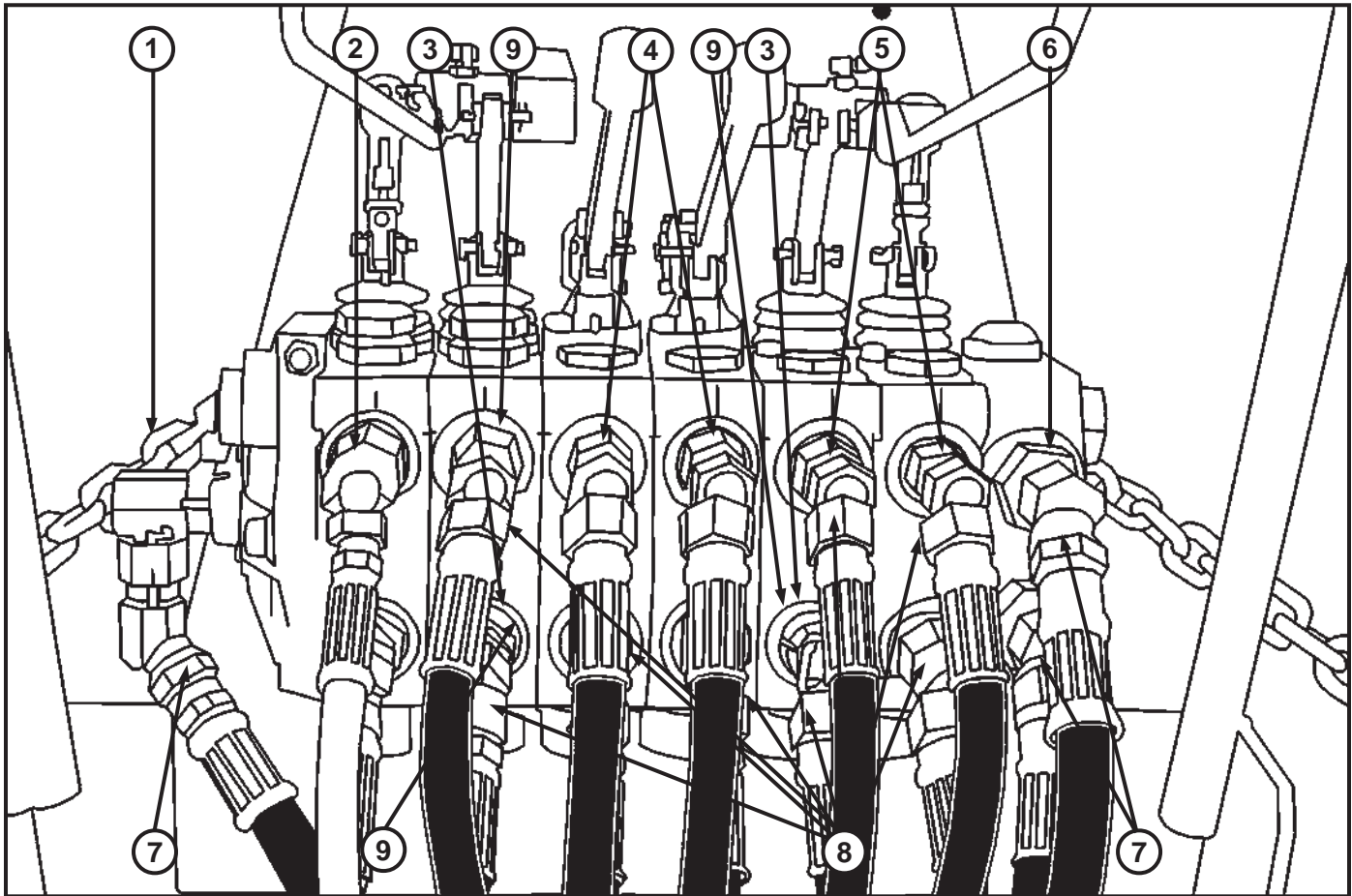
View from Operator Position of Rear Valve (Continued)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	25500	Nut, ⁵ / ₁₆ " - 24 NF Jam	5
2	13444	Block, Pivot, Universal Rear, T5C/T5D/T6/T7/T9	1
3	21429	Fitting, Grease, ¹ / ₄ " 90°D	7
4	14052	Plate, Wobblestick & Operator Hazard, T5C/T5D/T6/T7/T9	1
5	13965	Linkage, Ball-Socket, Wobblestick, All Tractors	3
6	13418	Pin, Pivot, Valve Hose Link, T5C/T5D/T6/T7	10
7	13443	Link Bar, Wobblestick Connecting, T5C/T5D/T6/T7/T9	3
8	13411	Link, "U", Valve All Tractors	3
9	13410	Bracket, Aluminum, Rear Valve Handle, T6/T9	2

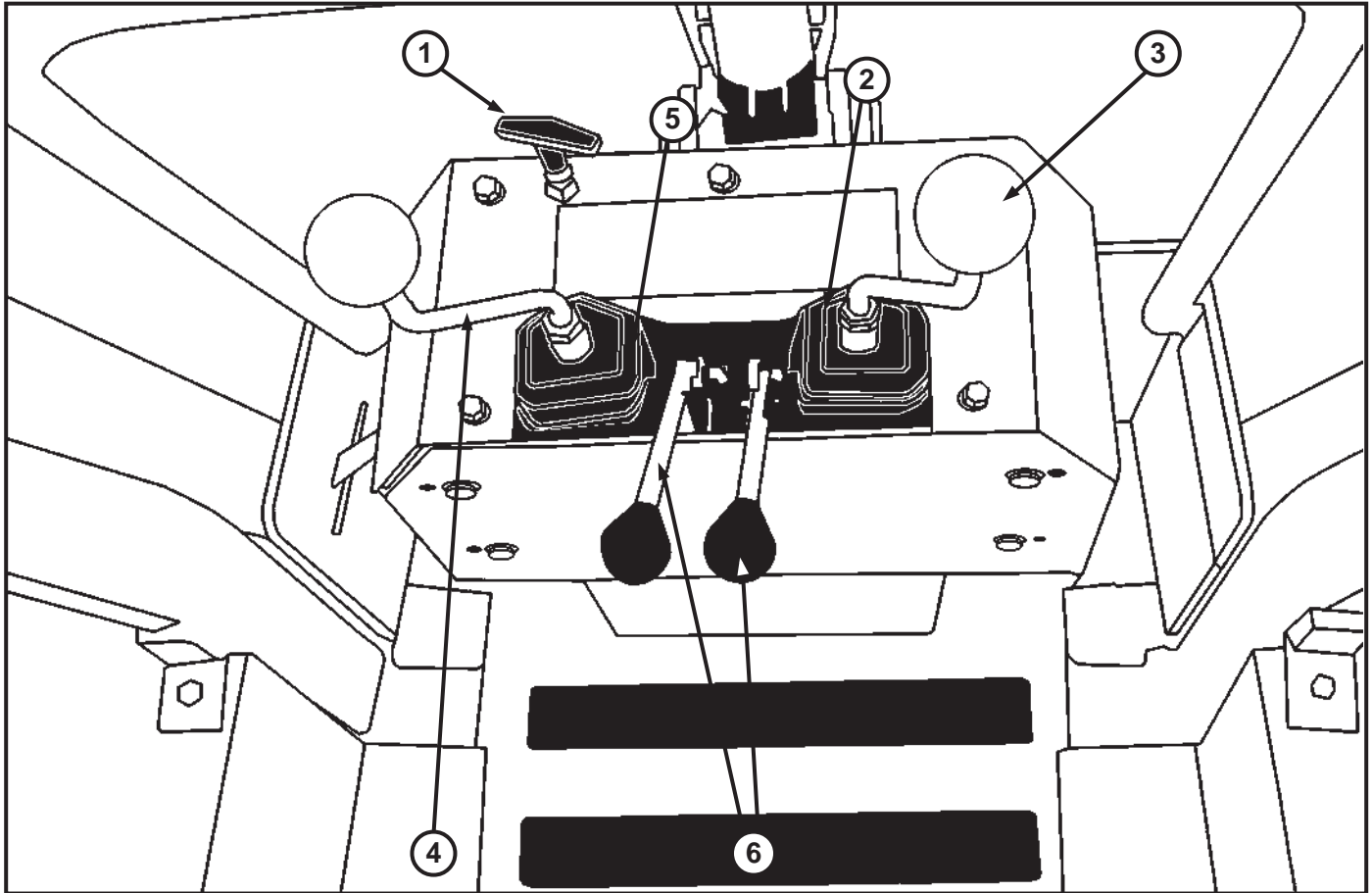
Parts

View from Operator Position of Backhoe Valve (Continued)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	25718	Fitting, 7/8" MP 90° x 1/2", Swivel	2
2	21765	Fitting, 3/8" MP x 1/4" FP 45° Degrees - Restrictor	2
3	85031	Checks, Anti - Cavitation, T6/T9 (Not Shown)	2
4	21767	Fitting, 3/8" MP x 3/8" MP 45° Degrees - Restrictor	2
5	25286	Fitting, 3/4" MB x 3/8" F - Bushing	12
6	20065	Fitting, #12 O'Ring x 1/2" FPT	2
7	21788	Fitting, 1/2" M x 1/2" FM Swivel 45° Degrees	3
8	21766	Fitting, 3/8" MP x 3/8" FM 45° Degrees	10
9	23413	Restrictor w/Spring (Not Shown)	3

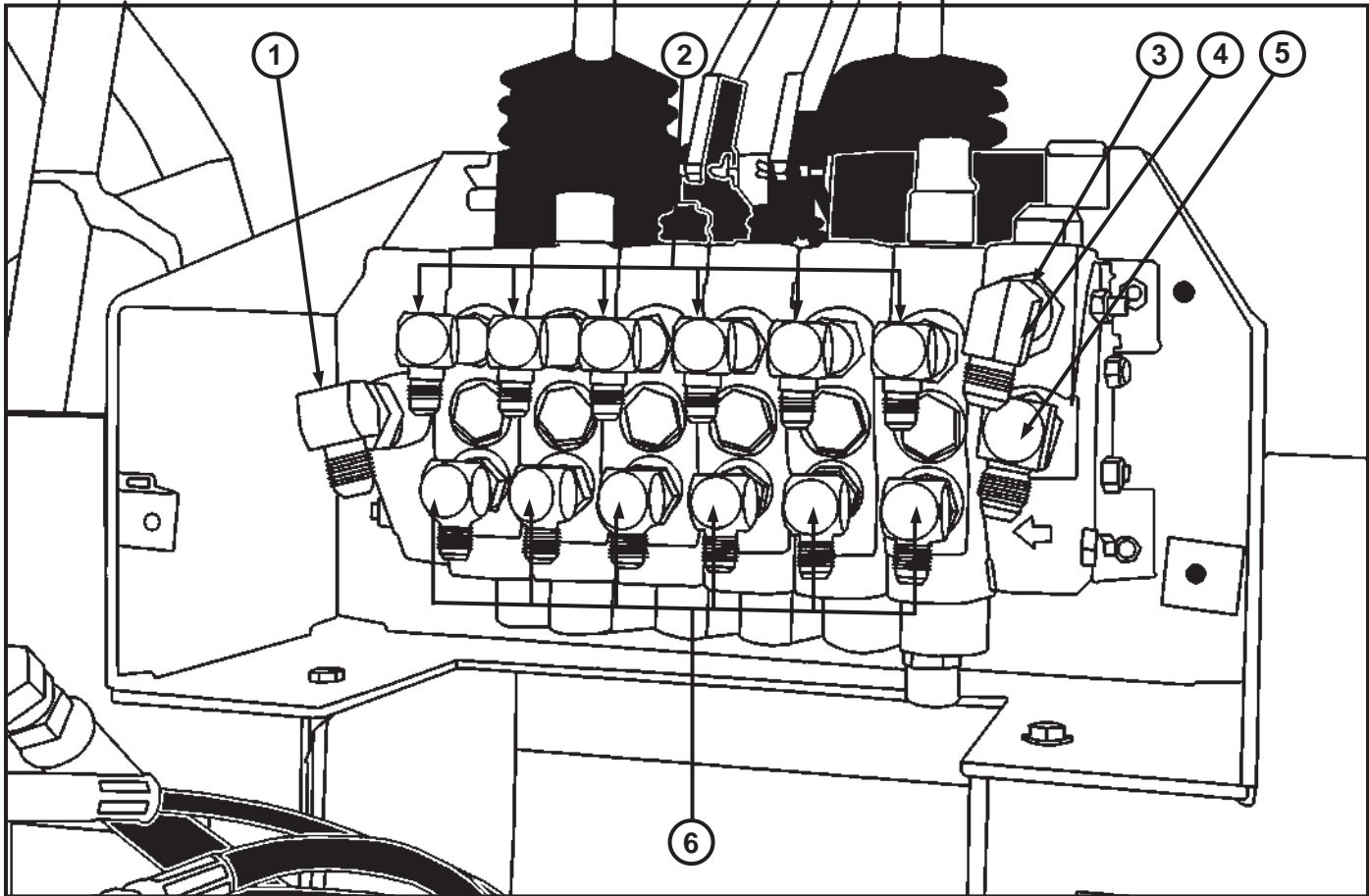
View of Operator Position at Rear Valve (180 Swing)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13135	Cable, Boom Latch Control, T-Handle, T7/T9	1
2	84046	Wobblestick Pivot Kit Section, Right Rear, V10-1294	1
3	13942	Knob, Red Wobblestick Handle, Valve, T5C/T5D/T6/T7/T9	2
4	85120	Handle, Outrigger/Offset, V10-1294	2
5	84045	Wobblestick Pivot Kit Section, Left Rear, V10-1294	1
6	85120	Handle Outrigger/Offset, r10-1294	1

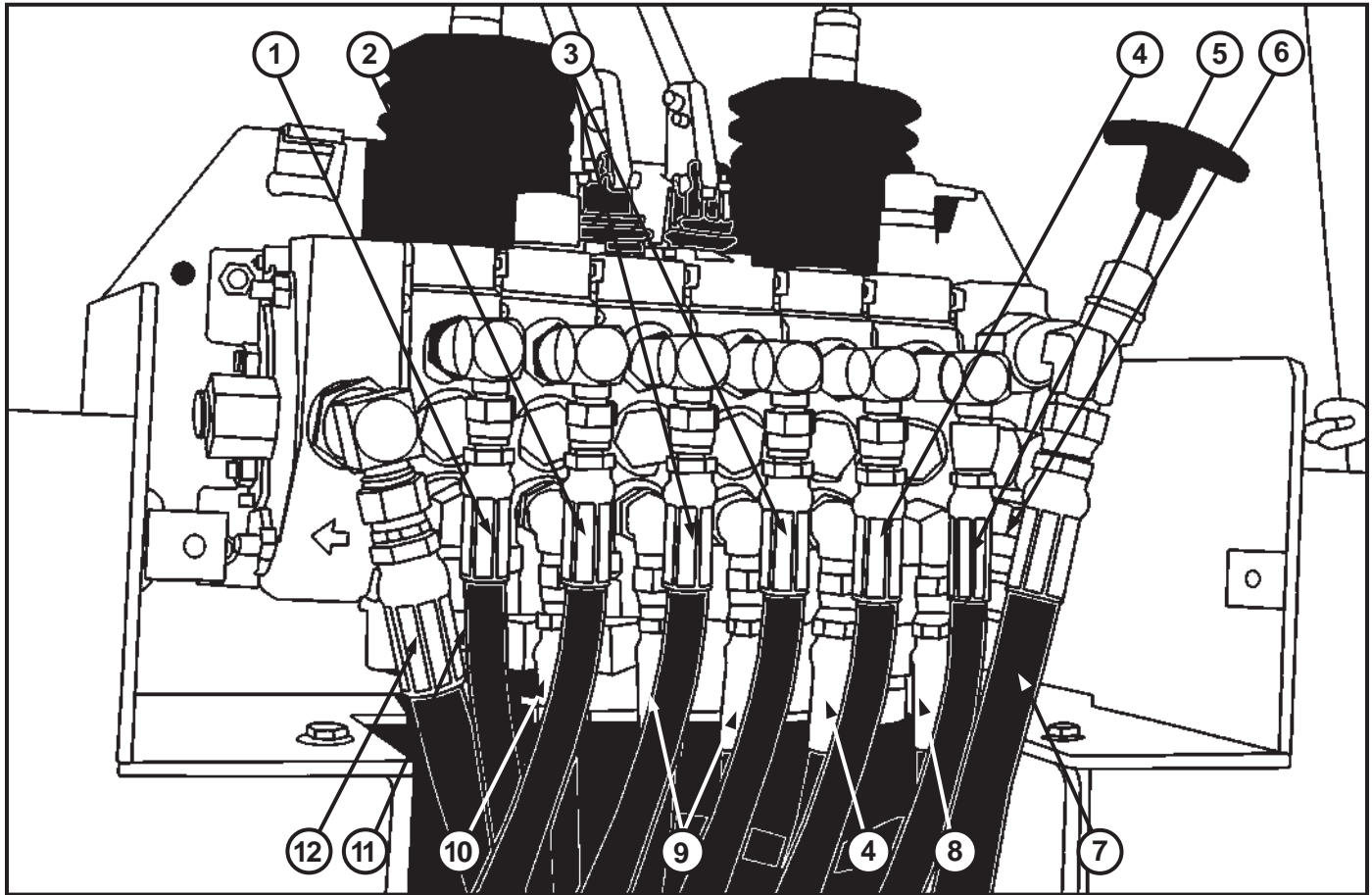
Parts

View of Fitting Location for Rear Valve (180 Swing)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	20039	Fitting, #10 O-Ring x #8 JIC 90	1
2	20156	Fitting, #8 O-Ring x #6 JIC 90	6
3	20007	Fitting, #10 O-Ring - 7/8MB x 1/2" F, Bushing	1
4	20192	Fitting, 1/2MB x #8 JIC Long 90	1
5	20039	Fitting, #10 O-Ring x #8 JIC 90	1
6	20149	Fitting, #8 MP x #8M JIC Long 90	6

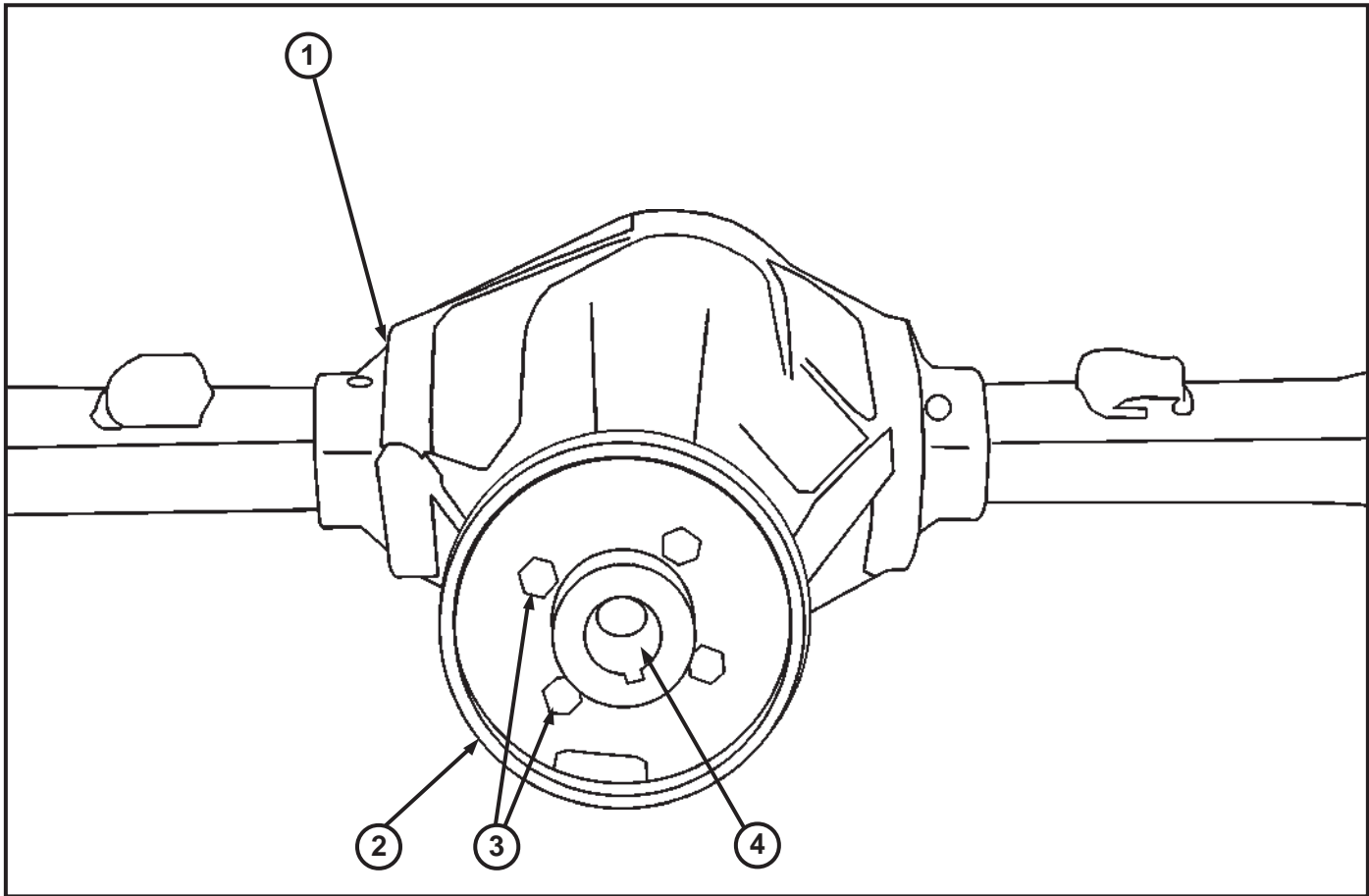
View of Hose Location for Rear Valve (180 Swing)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	80202	Hose, 1/4" x 130"	1
2	80203	Hose, 1/4" x 91"	1
3	80188	Hose, 1/4" x 48"	2
4	80205	Hose, 1/4" x 67"	2
5	80190	Hose, 1/4" x 25"	1
6	80200	Hose, 1/2" x 47"	1
7	80201	Hose, 1/2" x 57"	1
8	80197	Hose, 1/4" x 24"	1
9	80202	Hose, 1/4" x 39"	2
10	80204	Hose, 1/4" x 87"	1
11	80191	Hose, 1/4" x 124"	1
12	80199	Hose, 1/2" x 180"	1

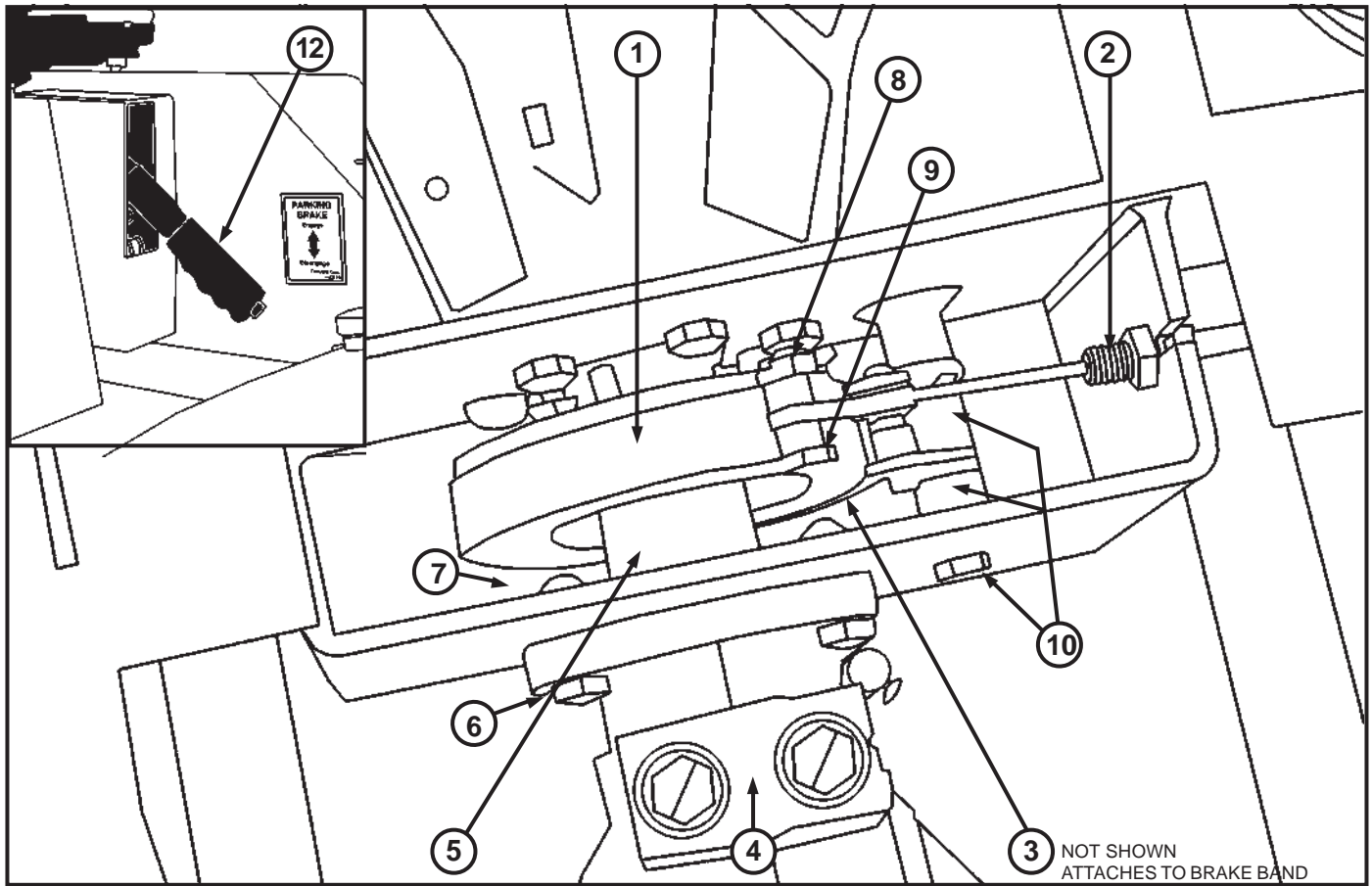
Parts

View from Front of Rear Axle (After 1/01/01)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	55045	Axle, Rear, T5C/T5D/T7/T9 2W	1
2	57034	Brake Drum, Weldment	1
3	26288	Bolt, $\frac{3}{8}$ " x $1 \frac{3}{4}$ " NF GR8Z	4
4	51800	Flange, Drive Motor, T4/T5C/T5D/T6/T7/T9	1

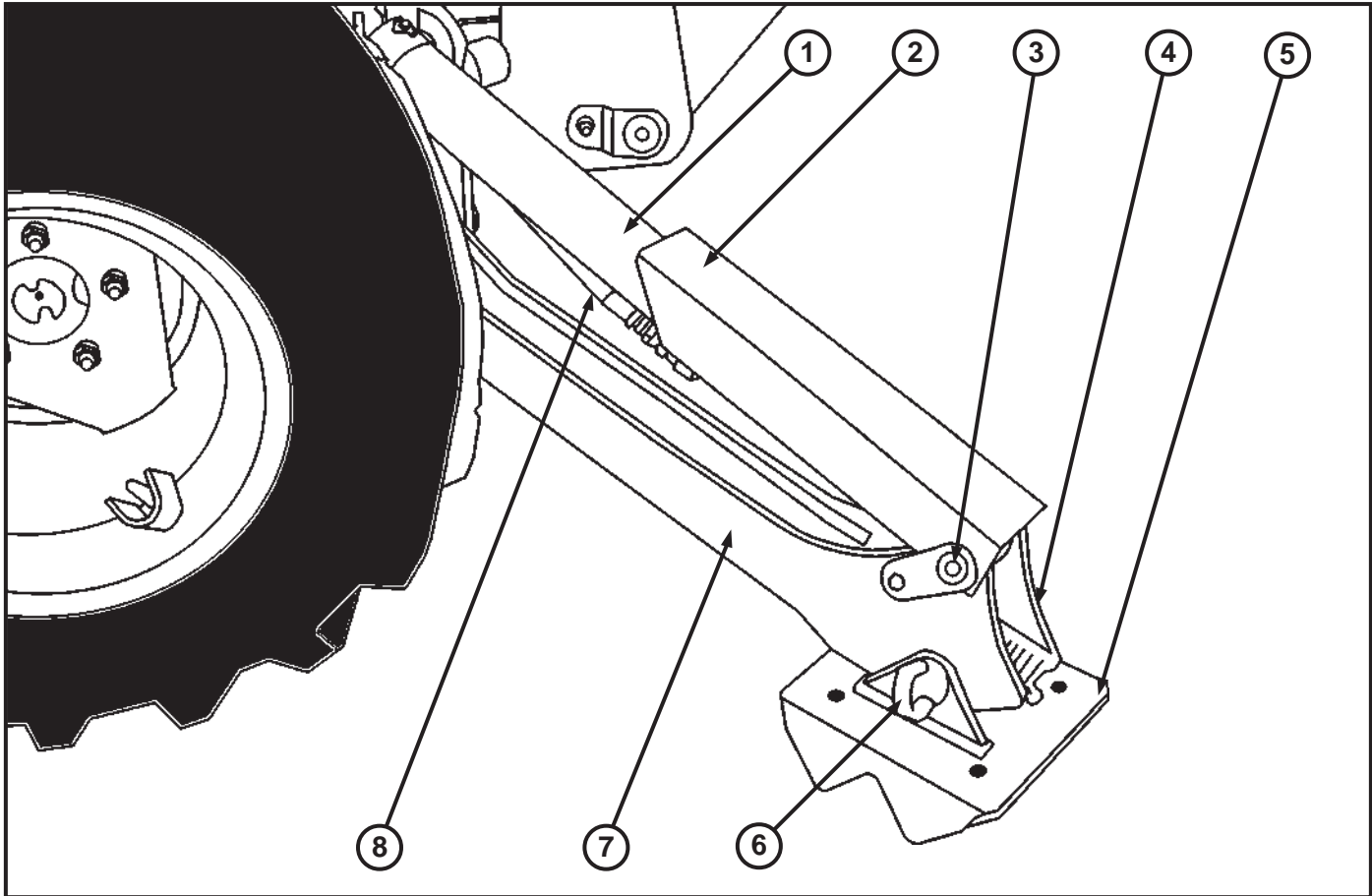
Top View of Parking Brake Assembly (After 1/01/01)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	55620	Brake Band	1
2	55606	Brake Cable	1
3	55613	Brake Off Set Link <small>Not Shown - Attaches to Brake Band</small>	1
4	64003	Drive Motor	1
5	51800	Drive Motor Flange <small>Not Shown</small>	1
6	22034	Bolt	1
7	28500	Nut	1
8	23005	Nut	1
9	22038	Bolt	1
10	17028	Bushing, Brake 9/16" ID x 1" OD x 7/8" L	1
	17029	Bushing, Brake 9/16" ID x 1"OD x 1 1/4" L	1
	22042	Bolt, 14mm x 90 mm C2.0z Brake 38748	1
ITEM SHOWN	13197	Spring, Retro Fit Parking Brake	1
ITEM SHOWN	55621	Spring Bracket, Parking Brake	1
	55600	Kit, String Retro <small>Not Shown</small>	1
	57034	Brake Lever & Cable <small>After 1/01/01</small>	1

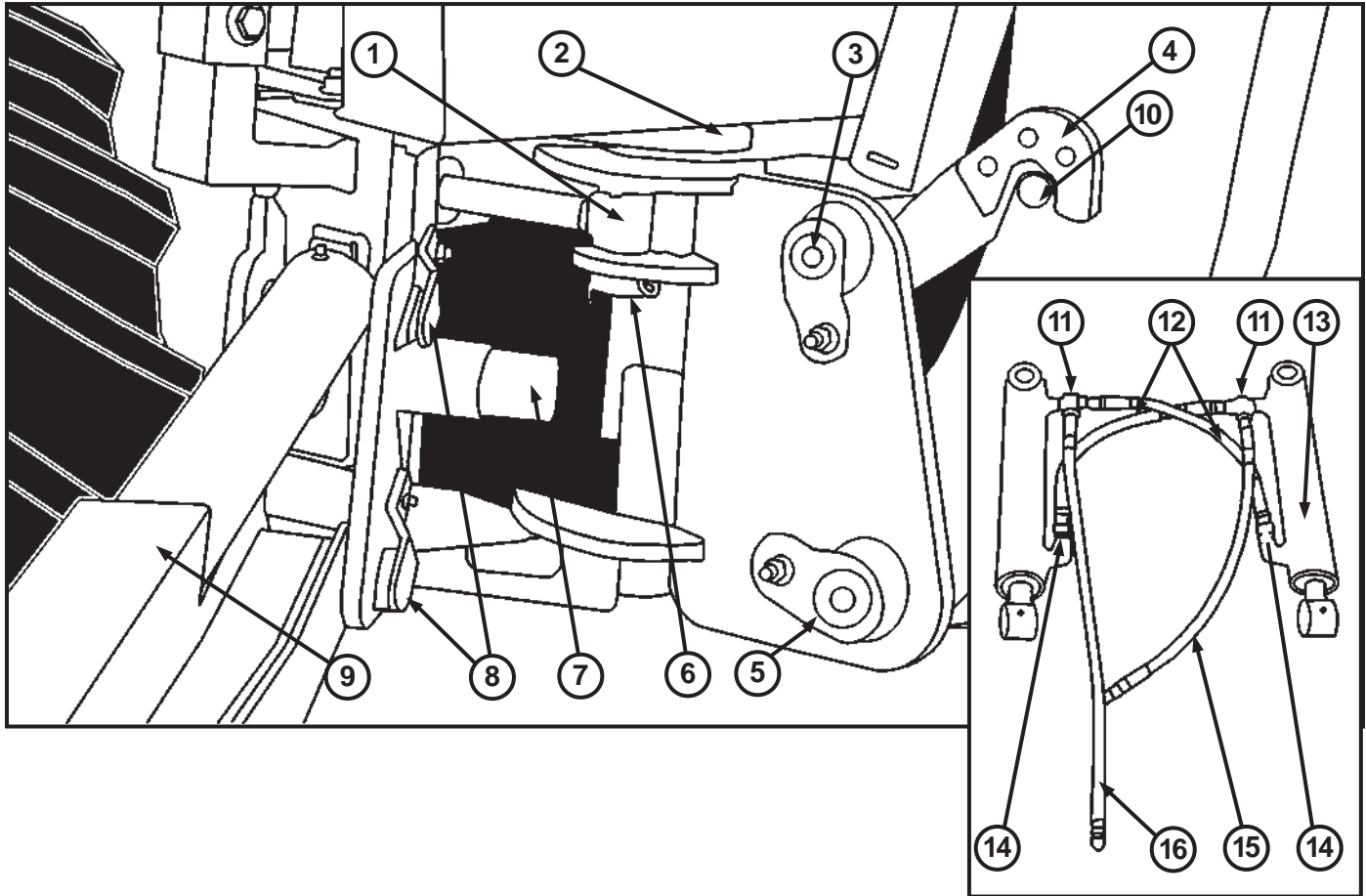
Parts

View from Left Side of Outrigger Assembly



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	81136	Cylinder, Outrigger, T6/T9	1
2	11516	Guard, Outrigger, T6/T9	1
3	11502	Pin, 4 1/8", Outrigger to Cylinder, T5C/T5D/T6/T7/T9	1
4	10202	Pin, Linch (Not Shown)	1
5	11048	Pad, Outrigger Foot	1
6	17156	Pin, 5 1/4", Pull, Outrigger Pad, T5D/T6/T7/T9	1
7	11047	Outrigger, T6/T9	1
8	80126	Hose, 3/8 x 36"	1

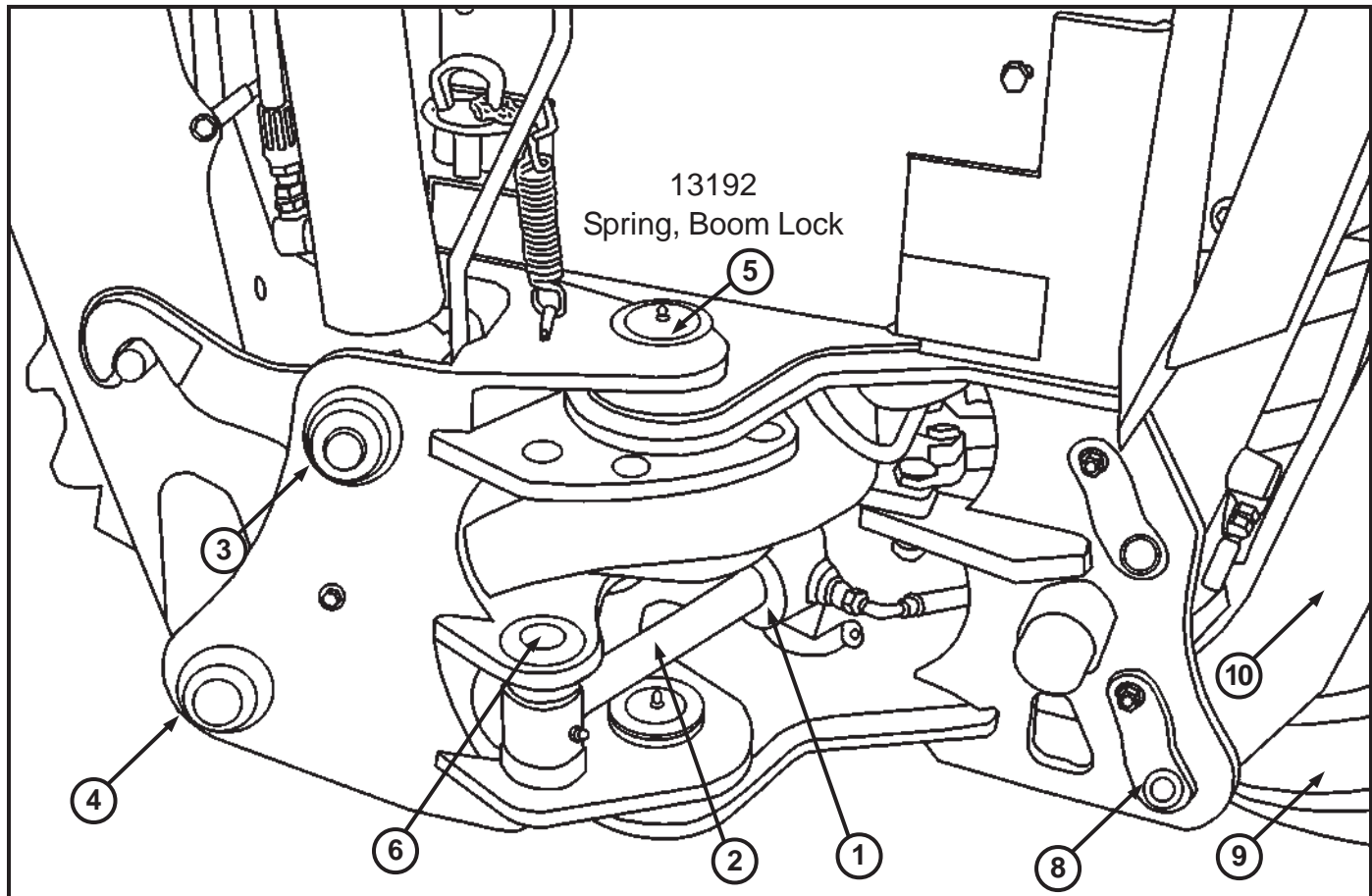
View of Left Side of Swing Assembly Non - 180 Degrees



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	15300	Pin, 4 1/8", Swing Cylinder to Swing, T5C/T5D/T6/T7/T9 (Not Shown)	1
2	17035	Pin, 17 1/2", Swing Pin, T6/T9 (Not Shown)	1
3	17208	Pin, 7 3/4", Boom Cylinder to Swing, T5D/T6/T7/T9	1
4	10237	Boom Latch, Curved Boom Non 180%, T5D/T6/T7/T9	1
5	10406	Pin, 8 1/4", Boom to Swing, T6/T9	1
6	21420	Pin, Cotter, Case Hard	1
7	15486	Stop, Swing, T6/T9	1
8	11100	Pin, 6 1/4", Outrigger, Boom, T5C/T5D/T6/T7/T9	1
9	11516	Guard, Outrigger, T6/T9	1
10	17270	Swing Lock Pins	2
INSET - SWING CYLINDER SUB - ASSEMBLY			
11	20025	Fitting, 1/4" Tee	2
12	80045	Hose, 1/4" Swing Crossover, 15"	2
13	82070	Cylinder, Swing w/Tee Fitting Non 180%	2
14	20174	Fitting, 1/4"M x 1/4"M Straight, Swivel	2
15	88420	Hose, 1/4" Swing to Valve, 20"	1
16	88425	Hose, 1/4" Swing to Valve, 25"	1

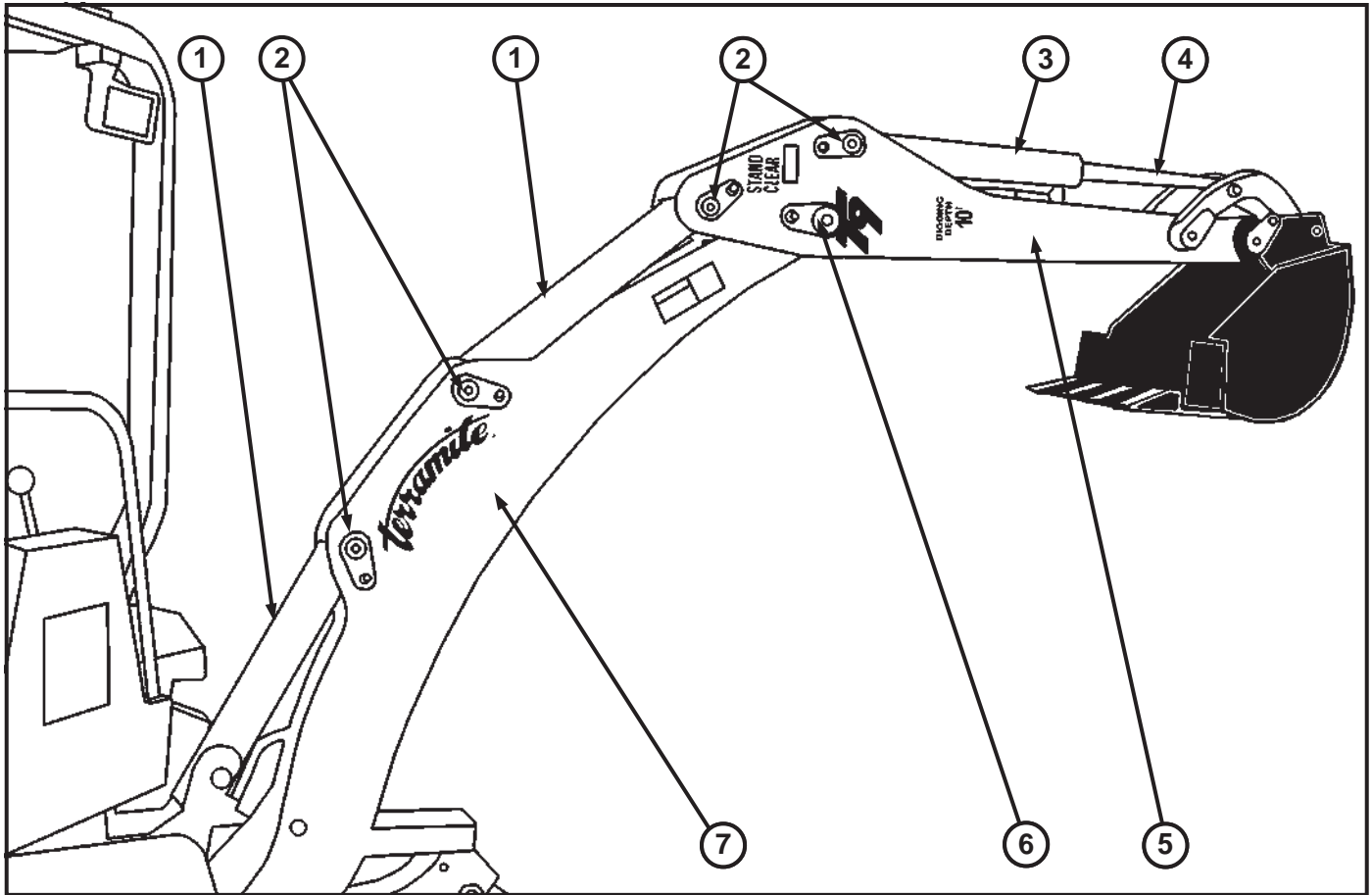
Parts

View of Right Side of 180 Degree Swing Assembly



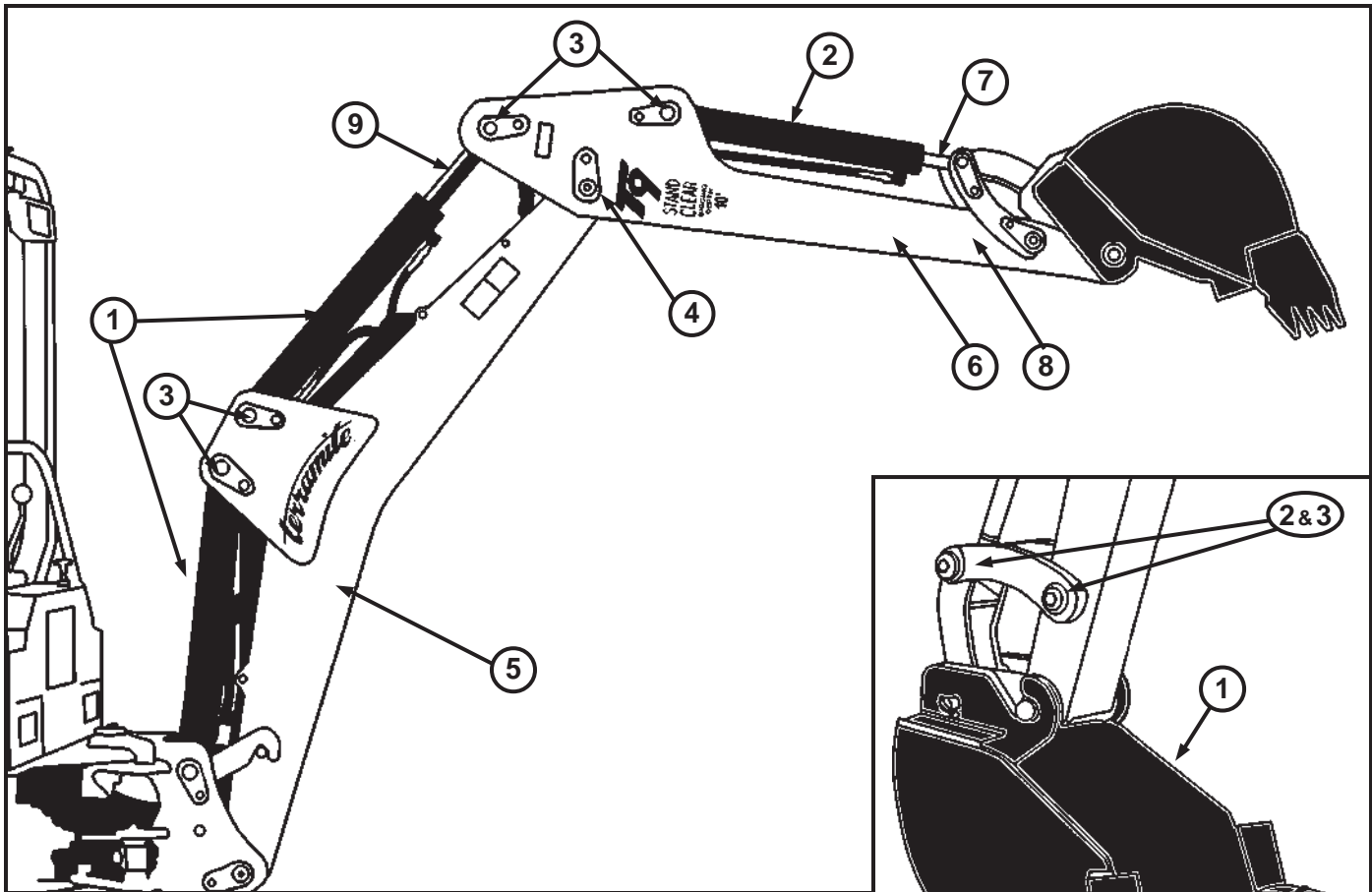
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	81169	Cylinder Trunnion Swing 180D T7/T9	2
2	81168	Rod Swing Cylinder Trunnion T7/T9	2
3	17208	Pin 8 1/4 Boom Cylinder to Swing T7/T9	1
4	10406	Pin 8 1/4 Boom to Swing T7/T9	1
5	17253	Pin 4 3/4 Swing Pivot 180D T7/T9	2
6	17244	Pin 5 1/2 Swing Cylinder T7/T9 180	2
7	13193	Boom Latch Assembly T7/T9	1
8	11100	Pin 6 1/4 Outrigger	4
9	81136	Cylinder Outrigger T9	2
10	11075	Outrigger Assembly T6/T9	2

View of Left Side of Backhoe Assembly

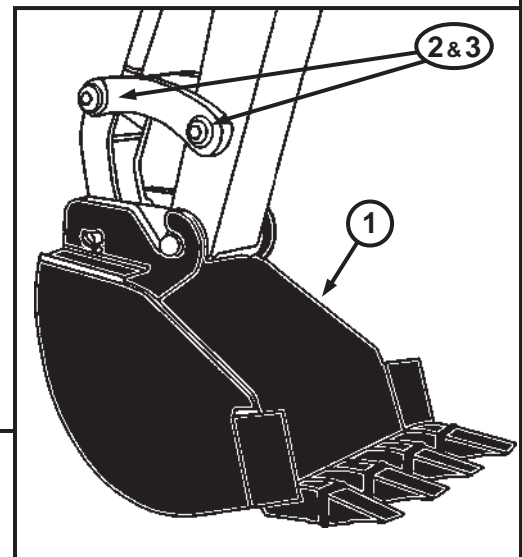


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	81206	Cylinder, Boom and Crowd, T6/T9 Non180	2
2	10706	Pin, 6 5/8", Boom and Dipper, T6/T9	4
3	81131	Cylinder, Rear Curl, T6/T9 after 10/98	1
	20306	Cylinder, Rear Curl, T6/T9 before 10/98	
4	23016	Rod, Rear Curl, T6/T9	1
5	10272	Assembly, Dipper, T9 2W (Includes Decals)	1
5	10273	Assembly, Dipper, T9 4W (Includes Decals)	1
6	10707	Pin, 7 1/4", Boom to Dipper, T6/T9	1
7	10291	Assembly, Boom, T6/T9 (Includes Decals)	1
	10332	180° Boom	1

View of Left Side of 180 Degree Backhoe Assembly



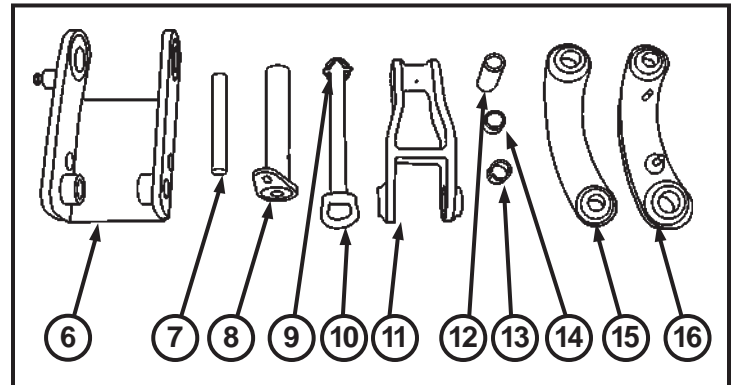
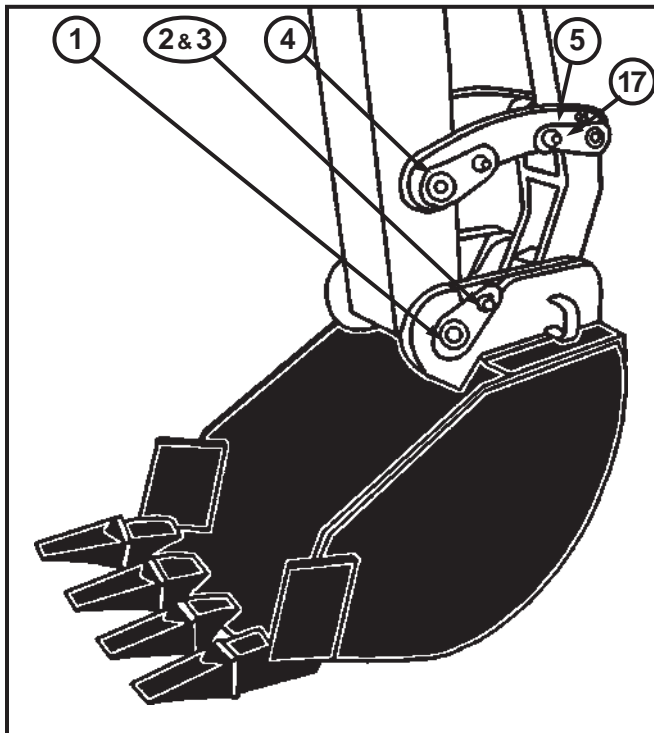
View of Right Side of Rear Bucket & Linkage Assembly



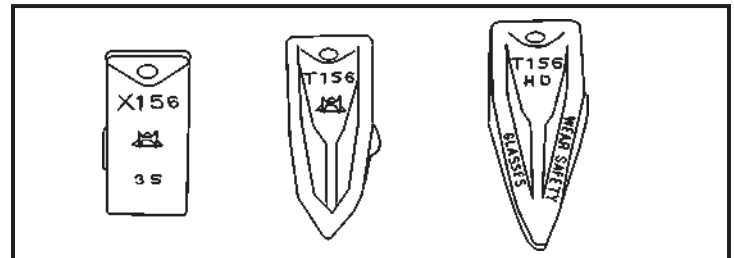
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	81206	Cylinder Boom & Crowd	2
2	81131	Cylinder R Curl	1
3	10706	Pin 6 5/8" Boom & Crowd T6/T9 R. Curl Cylinder	2
4	10707	Pin, 7 1/4" Boom to Dipper	1
5	10332	Assembly Boom 180° w/Decals	1
6	10336	Assembly Dipper 180° w/Decals	1
7	23016	Rod Rear Curl, T6/T9	1
8	10335	Assembly Dipper 180° w/Decals 2WD	1
9	82137	Rod Boom & Crowd T9 180°	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	19095	Bucket, 16", Quick Attach, T6/T9	1
2	22053	Bolt, 1/2" x 3/4" NC Gr8	2
3	28956	Washer, 3/8" SAE	2

View of Left Side of Rear Bucket & Linkage Assembly



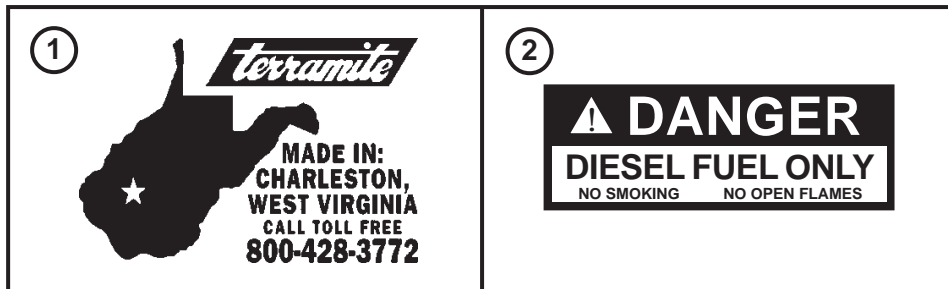
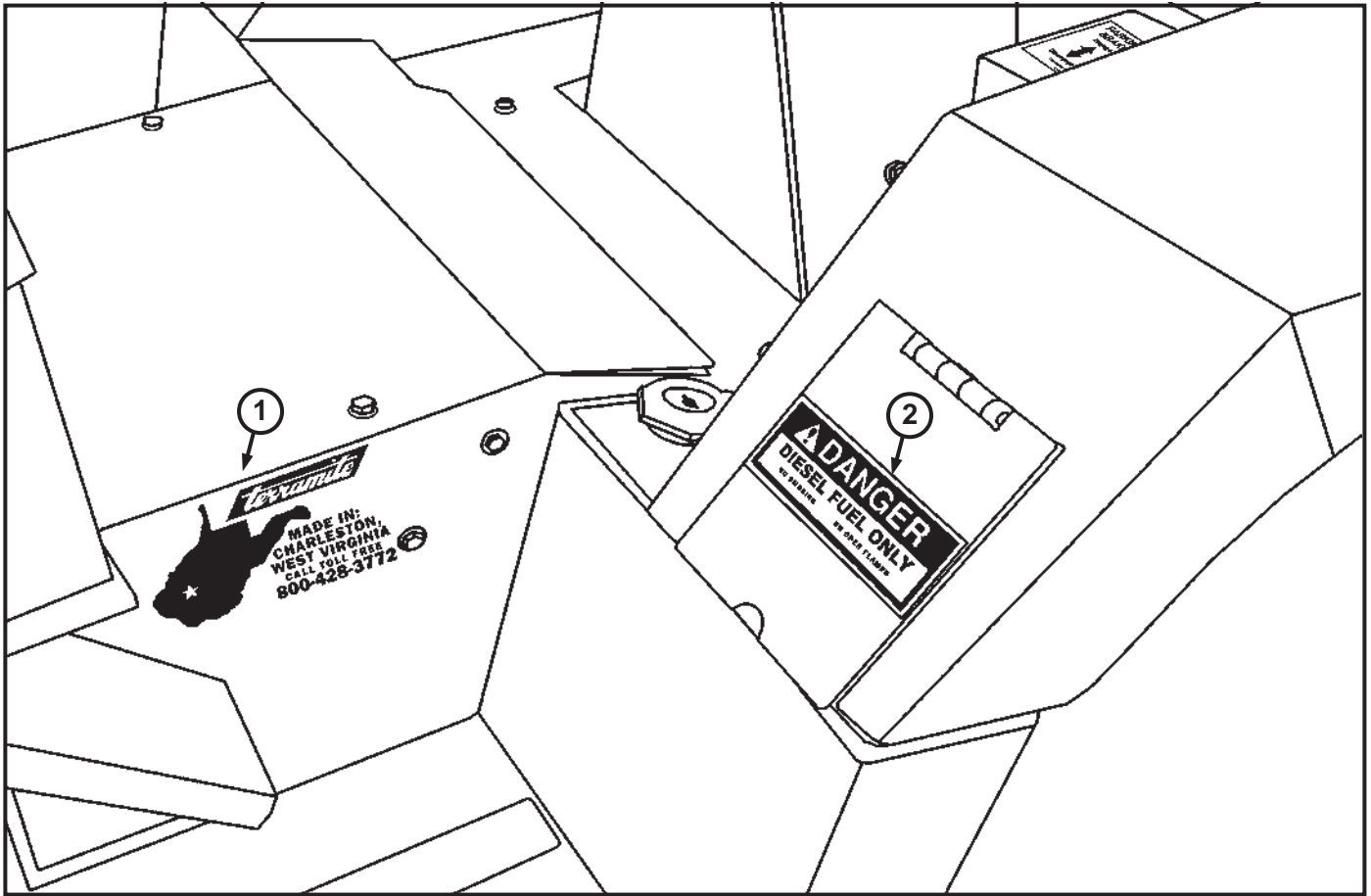
Tooth Caps



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	17187	Pin, 8 3/4", Quick Attach Bucket, T6/T9	1
2	28956	Washer, 3/8" SAE	1
3	22008	Bolt, 3/8" - 16 x 1" Gr8 Z	1
4	10812	Pin, 7 5/8", Dipstick to Linkage, T5C/T5D/T6/T7/T9	1
5	20082	Nut, 3/8" NC Flange Z	2
6	19480	Center Assembly, Quick Attach, T6/T9	1
7	17269	Pin, 6 1/2", Rear Curl Cylinder to Quick Attach, T5C/T5D/T6/T7/T9	1
8	17031	Pin, 7 5/8", Linkage to Rear Curl Cylinder, T5C/T5D/T6/T7/T9	1
9	10202	Pin, Linch, T5C/T5D/T6/T7/T9/Sweeper	1
10	17273	Pin, 9", Quick Attach Pull, T6/T9	1
11	18240	Linkage Assembly, Center, T5C/T5D/T6/T7/T9	1
12	17056	Bushing, 1 1/2" ID x 1 3/4" OD x 3" L	1
13	10819	Bushing 1" ID x 1 1/4" OD x 1" L	1
14	17055	Bushing, 1 1/2" ID x 1 3/4" OD x 2" L	1
15	18261	Linkage Link, Right, T5C/T5D/T6/T7/T9	1
16	18260	Linkage Link, Left, T5C/T5D/T6/T7/T9	1

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	10500	Cap, Tooth, Standard Pin, T5C/T5D/T6/T7/T9	NA
2	10590	Cap, Tooth, Tiger	NA
3	10591	Cap, Tooth, Tiger, HD	NA
4	10530	Roll Pin, Tooth Cap, SD	NA

Decal Location - Left Fender

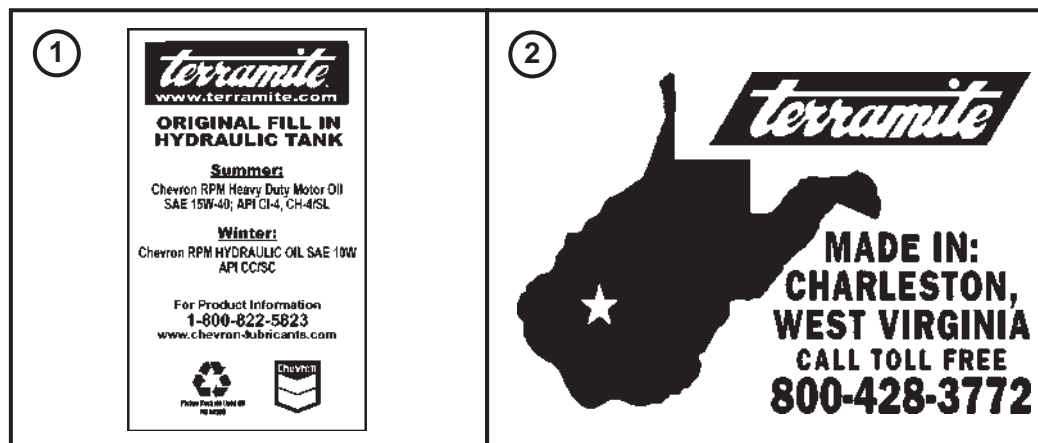
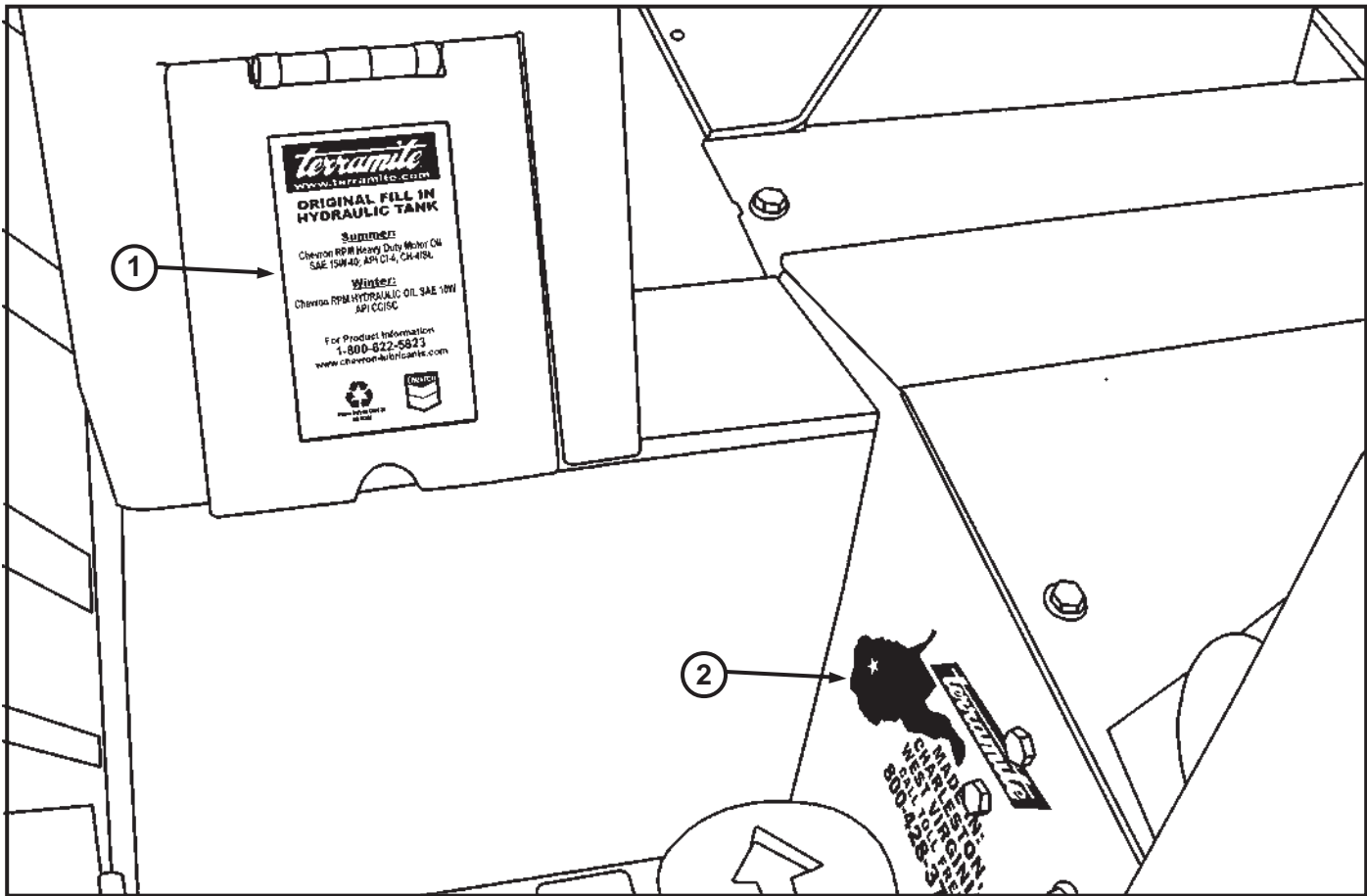


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14070	Decal, Black, W.V., T5C/T5D/T6/T7/T9/Sweeper	1
2	14071	Decal, Diesel Fuel Only, T5C/T5D/T6/T7/T9	1

PART NUMBER	PAINT DESCRIPTION	QTY.
08026	Paint, Yellow, Spray Can Dupont Paint Code #G 9325A	1
08037	Paint, Gray, Spray Can	1

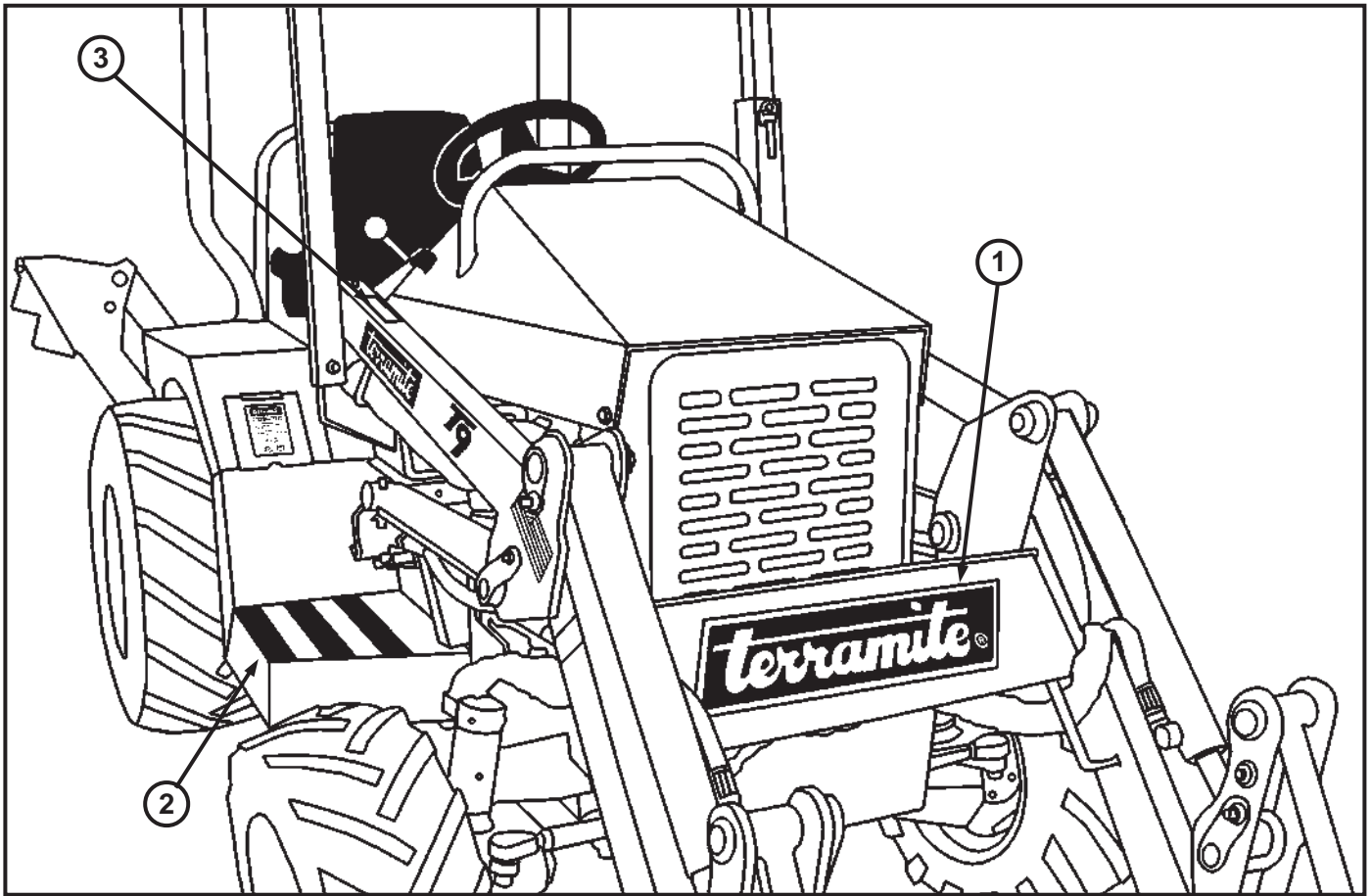
Decals

Decal Location - Right Fender



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14308	Decal, Oil, Chevron/Terramite	1
2	14070	Decal, Black, WV	1

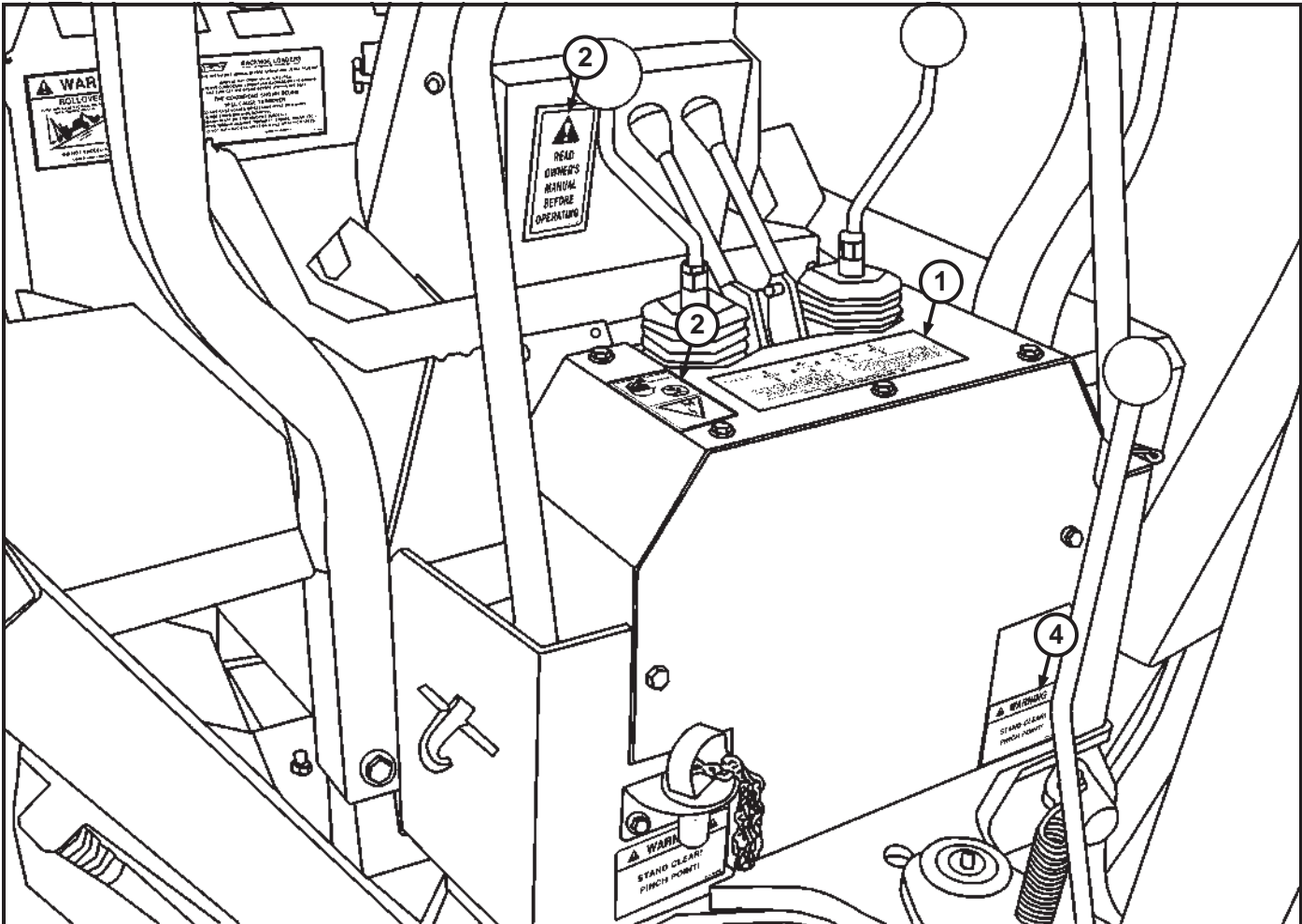
Decal Location - Front Arms



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14346	Decal, Yellow, TMC Jumbo Logo	1
2	16181	Kit, Complete, Skid Tape, T5D/T7/T9/T6	2
3	14100	Decal, Pinch Point, T5C/T5D/T6/T7/T9	2

Decals

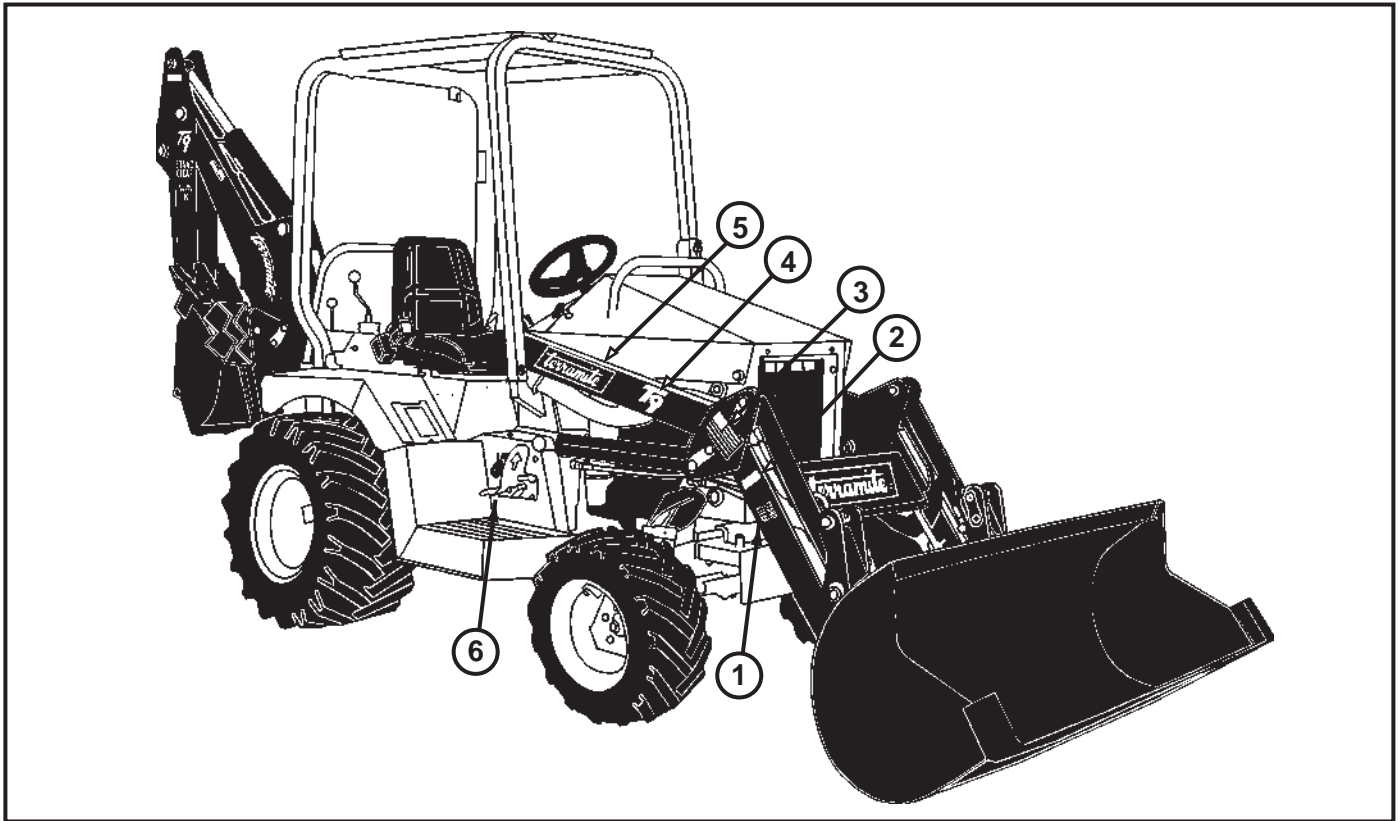
Decal Location - Rear Valve

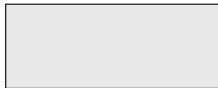






<p>①</p> <p>⚠ OPERATING DANGERS (READ OWNER'S MANUAL BEFORE USING THIS MACHINE)</p> <ol style="list-style-type: none"> KEEP BYSTANDERS AWAY FROM SWING AREA. OPERATE CONTROLS ONLY FROM SEAT. KEEP FEET ON FOOT GUARDS AT ALL TIMES. SET ENGINE SPEED TO 1/2 THROTTLE OR LESS. (INCREASES SPEED DOES NOT INCREASE POWER) DO NOT DIG UNDER THE MACHINE OR STABILIZERS. WHEN DIGGING ON A HILL, ALWAYS DUMP ON THE UPHILL SIDE. BEWARE OF UNDERGROUND & OVERHEAD UTILITIES WHEN MOVING MACHINE, PUT TRANSPORT CHAINS ON THE BACKHOE. IF INJURED BY PRESSURIZED HYDRAULIC FLUID, SEEK IMMEDIATE MEDICAL ATTENTION WITH A DOCTOR FAMILIAR WITH THIS TYPE OF INJURY. THIS MACHINE SHOULD CARRY AN OWNER'S MANUAL AT ALL TIMES. IF NONE, CALL 1-800-428-3772. THRES SHOULD JUST CLEAR GROUND, OR ENOUGH TO LEVEL MACHINE. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>↑ DOWN STAB ↓ UP</p> </div> <div style="text-align: center;"> <p>↑ DOWN BOOM ↓ UP</p> </div> <div style="text-align: center;"> <p>↑ DOWN BUCKET ↑ IN ↓ OUT</p> </div> <div style="text-align: center;"> <p>↑ DOWN STAB ↓ UP</p> </div> </div> <p style="font-size: small; text-align: right;">PART NO. 1-140-04 © 1999 TERRAMITE CORP.</p>	<p>②</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>⚠</p> <p>READ OWNER'S MANUAL BEFORE OPERATING</p> </div>	<p>③</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>⚠</p> <p>1-800-255-8208</p> </div>	<p>④</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>⚠ WARNING ⚠</p> <p>STAND CLEAR! PINCH POINT!</p> <p style="font-size: x-small;">T7/T9-04</p> </div>
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14284	Decal, Operator Danger T7/T9	1
2	14207	Decal, Read Owners Manual	1
3	14053	Decal, Call Before U Dig	1
4	38186	Decal, Pinch Point, Stand Clear, T7/T9/Sweeper	2

Decal Location - Side View

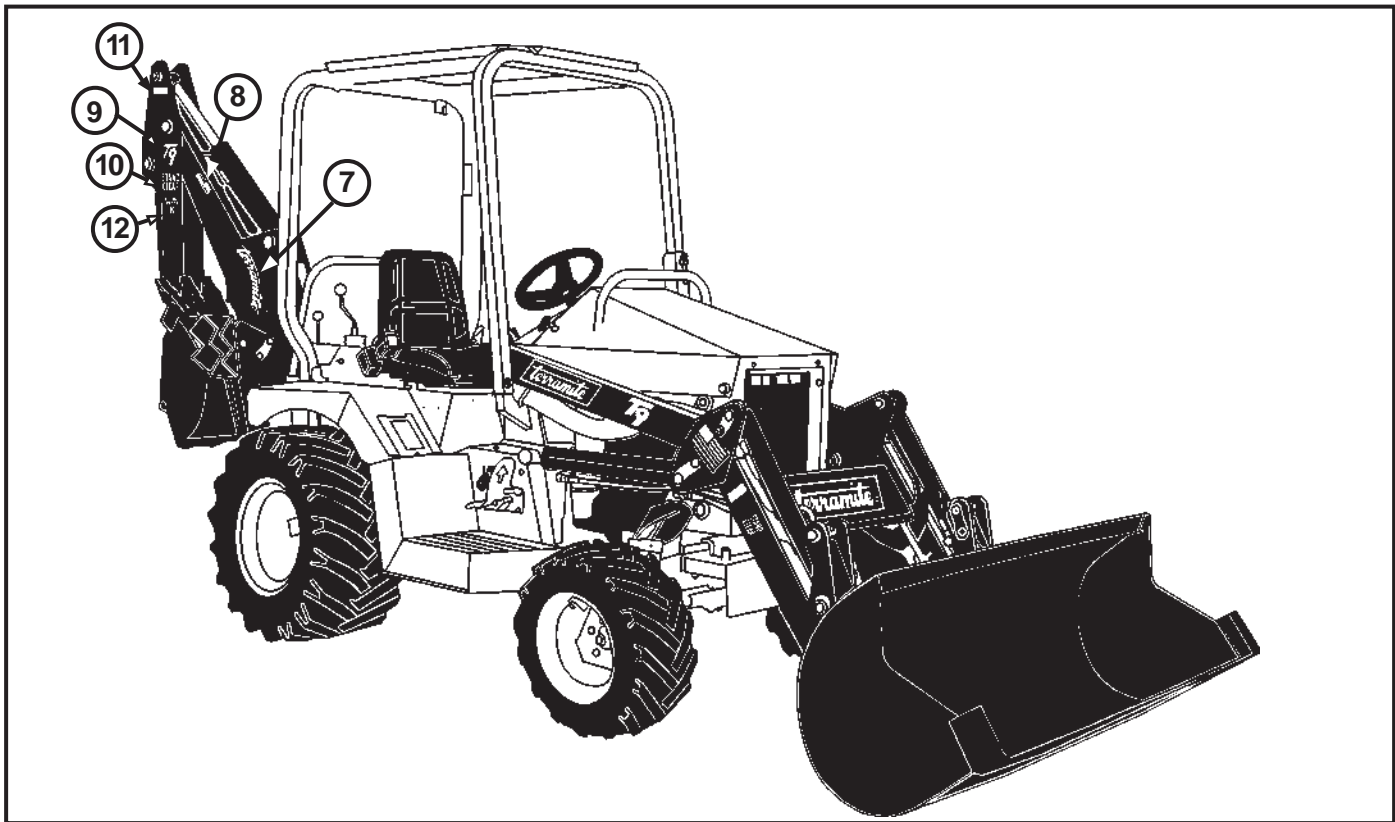






<p>① STAND CLEAR</p>	<p>② </p>	<p>③ </p>
<p>④ </p>	<p>⑤ </p>	<p>⑥ </p>

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14004	Decal, Stand Clear, Red, T5C/T5D/T6/T7/T9	4
2	14021	Decal, Reflector, Amber, T5C/T5D/T6/T7/T9	2
3	14099	Decal, American Flag, T5C/T5D/T6/T7/T9	2
4	14347	Decal, Terramite, Large, T5C/T5D/T6/T7/T9	2
5	14353	Decal, Yellow, Small, T9	2
	14356	Decal, Yellow, Small, T9 4WD	2
6	14070	Decal, Black, W.V., T5C/T5D/T6/T7/T9/Sweeper	2

Decals

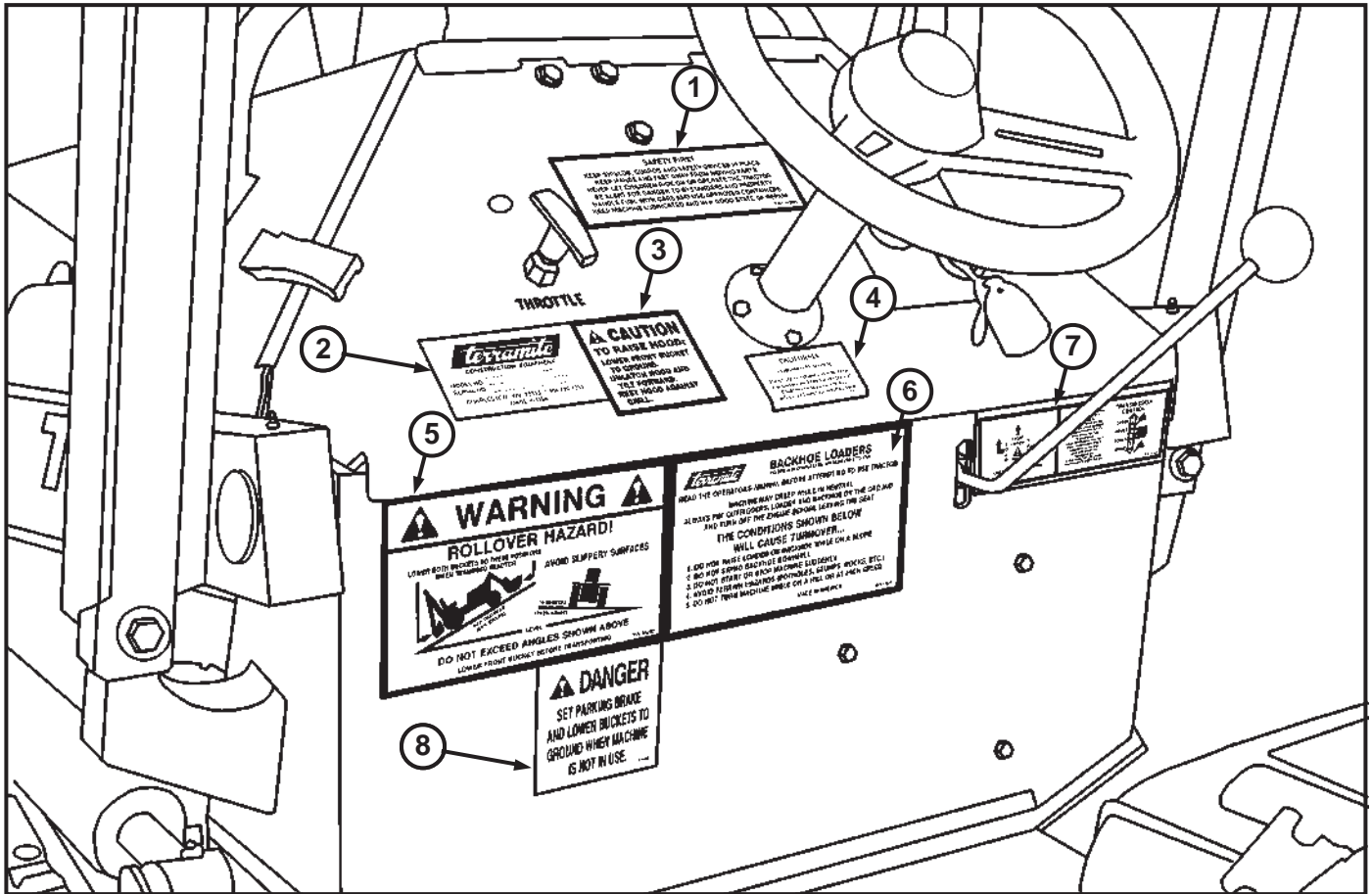
Decal Location - Side View (continued)



<p>⑦</p> 	<p>⑧</p> 	<p>⑨</p> 
<p>⑩</p> <p>STAND CLEAR</p>	<p>⑪</p> 	<p>⑫</p> <p>DIGGING DEPTH 10'</p>

ITEM	PART NUMBER	DESCRIPTION	QTY.
7	14348	Decal, Yellow, Radius, Terramite, T6/T9	2
8	14054	Decal, Warning, Crush Hazard, T5C/T5D/T6/T7/T9	2
9	14353	Decal, Yellow, Large, T9	2
	14356	Decal, Yellow, Large, T9 4WD	2
10	14004	Decal, Stand Clear Red, T5C/T5D/T6/T7/T9	4
11	14022	Decal, Reflector, Red, T5C/T5D/T6/T7/T9	2
12	143523	Decal, Digging Depth 10', T6/T9	2

Decal Location - Dash

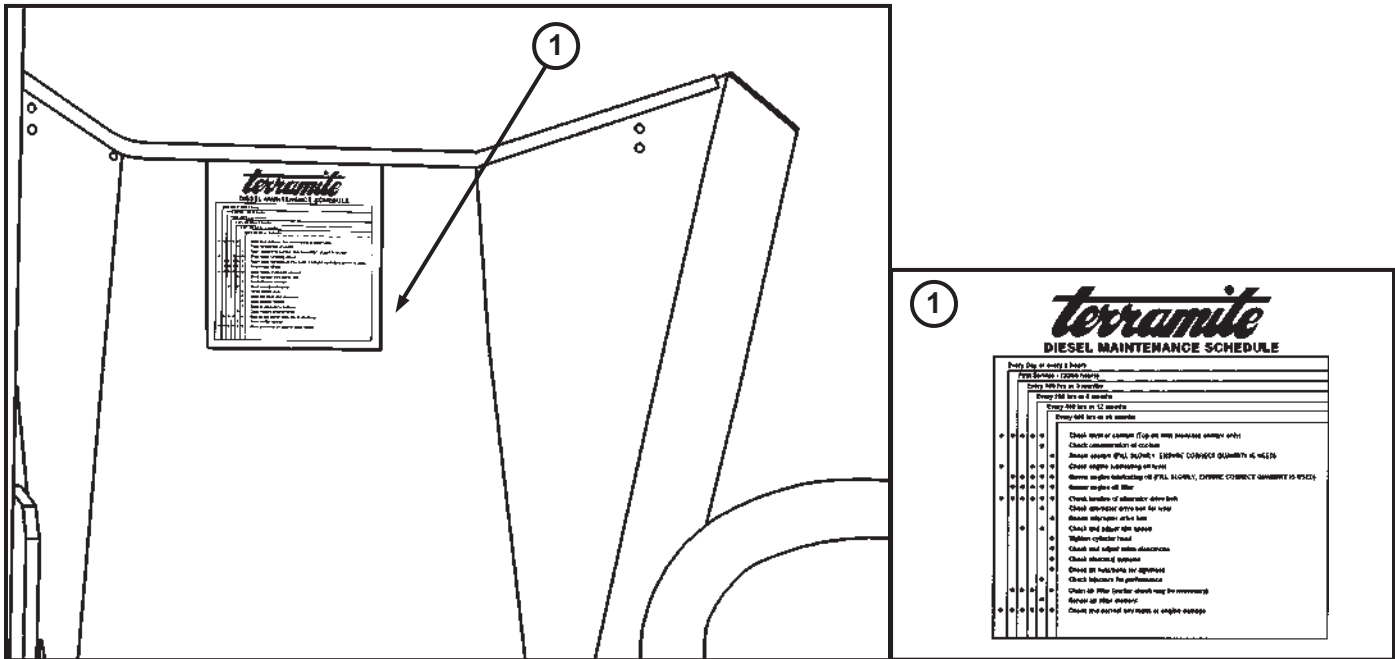


<p>①</p> <p>SAFETY FIRST KEEP SHIELDS, GUARDS AND SAFETY DEVICES IN PLACE KEEP HANDS AND FEET AWAY FROM MOVING PARTS NEVER LET CHILDREN RIDE ON OR OPERATE THE TRACTOR BE ALERT FOR DANGER TO BYSTANDERS AND PROPERTY HANDLE FUEL WITH CARE AND USE APPROVED CONTAINERS KEEP MACHINE LUBRICATED AND IN A GOOD STATE OF REPAIR P/N 14201</p>	<p>②</p> <p>terramite CONSTRUCTION EQUIPMENT MODEL NO. _____ SERIAL NO. _____ CHARLESTON, WV 25013 1-304-776-4231 MADE IN USA</p>	<p>③</p> <p>CAUTION TO RAISE HOOD: LOWER FRONT BUCKET TO GROUND. UNLATCH HOOD AND TILT FORWARD. REST HOOD AGAINST GRILL.</p>	<p>④</p> <p>CALIFORNIA Proposition 65 Warning Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm P/N 14337</p>
<p>⑤</p> <p>WARNING ROLLOVER HAZARD! LOWER FRONT BUCKET TO GROUND BEFORE TILTING REAR BUCKET AVOID SLIPPERY SURFACES DO NOT EXCEED ANGLES SHOWN ABOVE LOWER FRONT BUCKET BEFORE TILTING REAR BUCKET P/N 14202</p>	<p>⑥</p> <p>BACKHOE LOADERS READ THE OPERATOR'S MANUAL BEFORE ATTEMPTING TO USE THIS TRACTOR MACHINE MAY CREEP WHILE IN NEUTRAL ALWAYS SET OUTDRIVE, LOWER AND BACKUP ON THE GROUND AND TURN OFF THE ENGINE BEFORE LEAVING THE SEAT THE CONDITIONS SHOWN BELOW WILL CAUSE TUMBOVER... 1. DO NOT BRAKE, LOWER OR RAISE WHILE ON A SLOPE 2. DO NOT SWING BUCKETS OUTWARD 3. DO NOT START OR STOP MACHINE SMOOTHLY 4. AVOID TIGHTEN HAZARDOUS PROFILES, STUMPS, ROCKS, ETC. 5. DO NOT TURN MACHINE WHILE ON A SLOPE OR AT HIGH SPEEDS READ OPERATOR'S MANUAL P/N 14203</p>	<p>⑦</p> <p>LOADERS CONTROL TRANSMISSION CONTROL P/N 14204</p>	<p>⑧</p> <p>DANGER SET PARKING BRAKE AND LOWER BUCKETS TO GROUND WHEN MACHINE IS NOT IN USE. P/N 14220</p>

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14201	Decal, Safety First, T5D/G/T6/T7/T9	1
2	14012	Decal, Serial Number Plate, T5D/T7/T9/SCR/Sweeper/Dozer	1
3	14327	Decal, To Raise Hood	1
4	14337	Decal, California Proposition 65 Warning	1
5	14202	Decal, Warning Roll Over, T5D/T6/T7/T9	2
6	14203	Decal, Read Operators Manual, T5C/T6/T7/T9	1
7	14204	Decal, Controls, Front Bucket, T5D/T6/T7/T9	1
8	14220	Decal, Danger, Parking Brake - NIU	1

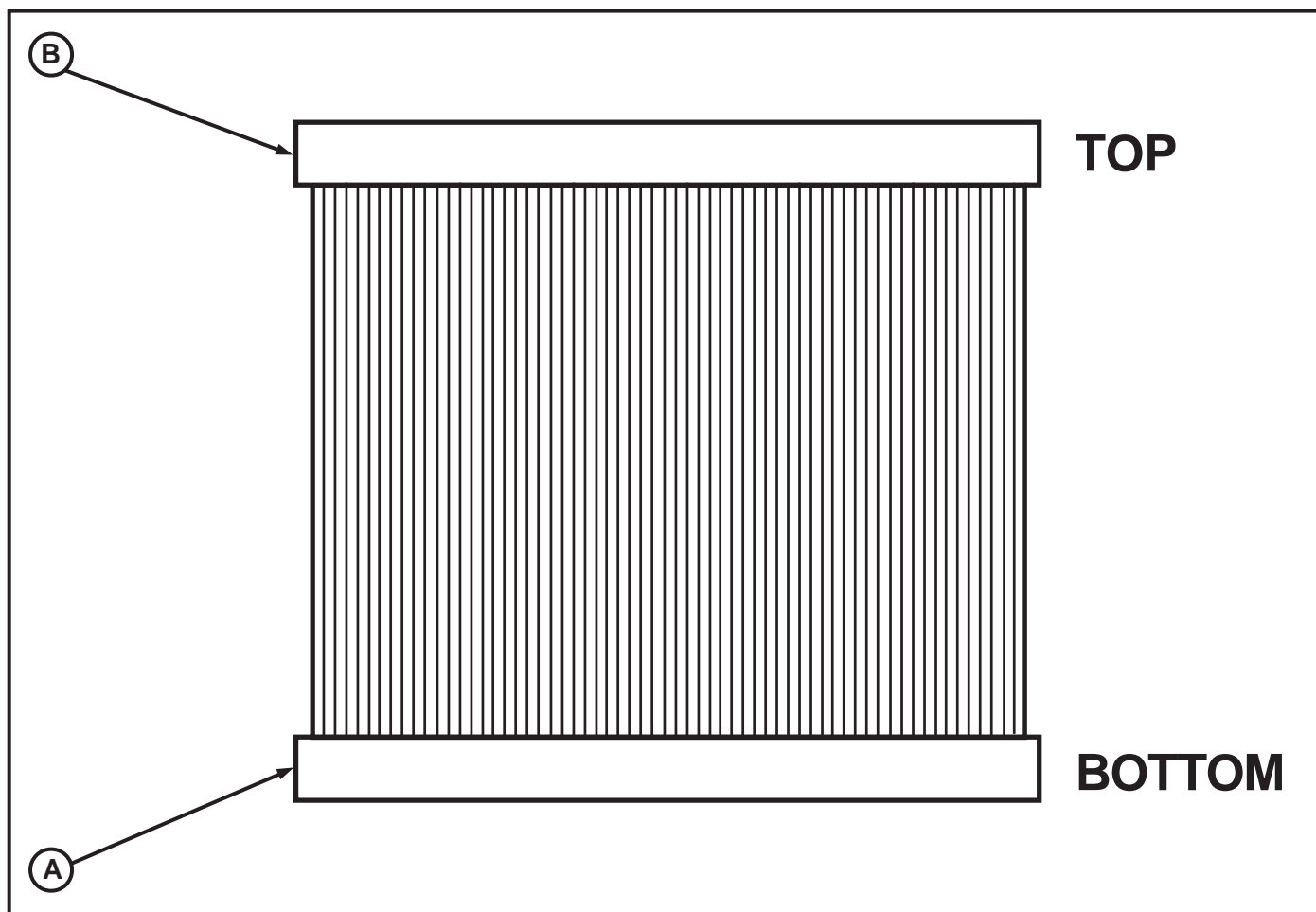
Decals

Decal Location - Air Filter from Under Hood



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	14510	Decal, Diesel Maintenance Schedule	1

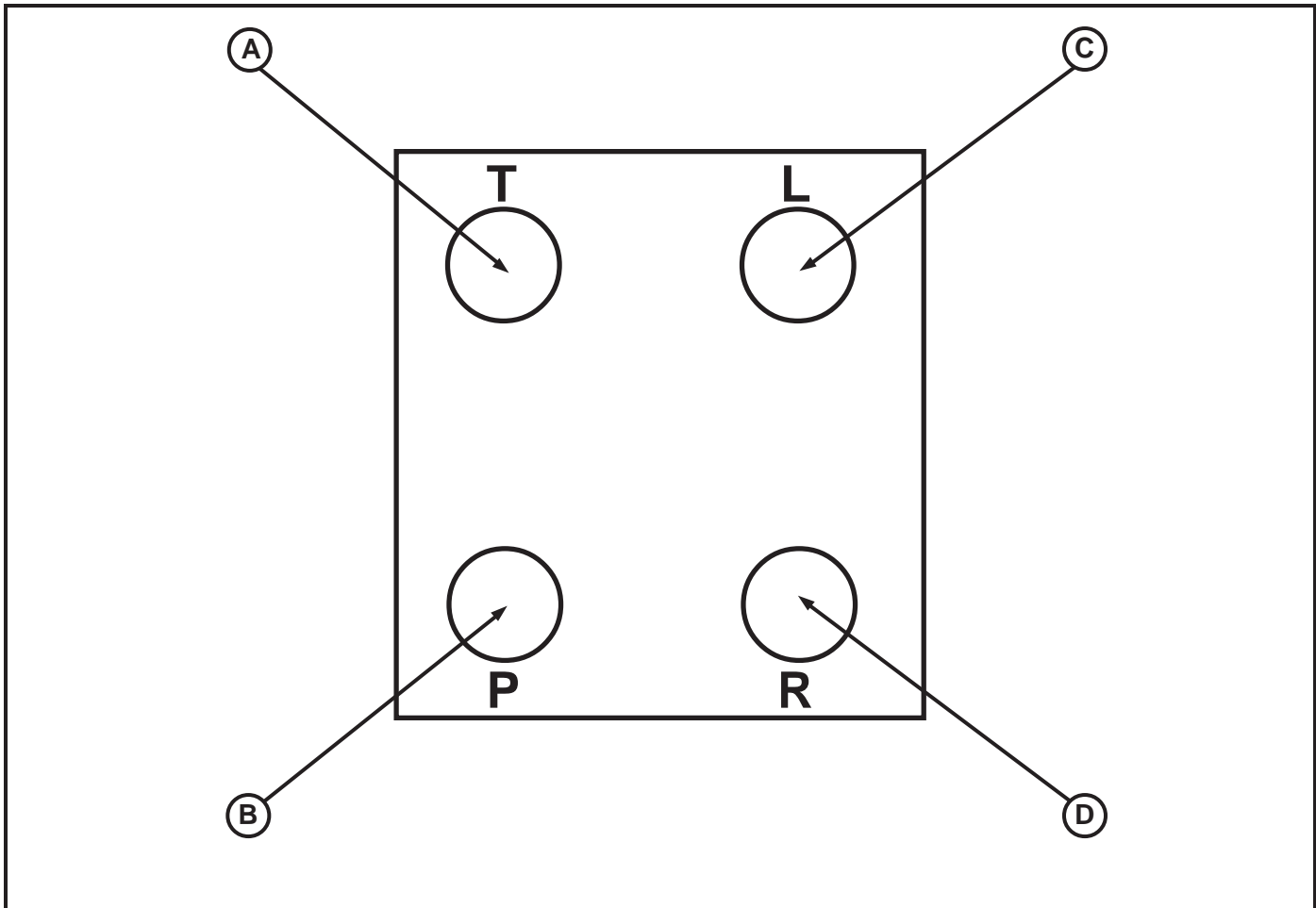
T9 Oil Cooler



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88100	Return - Oil Cooler	Drive System Distribution Block (A) (SEE PAGE 4.11)
B	88831	Return - Oil Cooler	Front Valve Assembly - Return (A) (SEE PAGE 4.4)

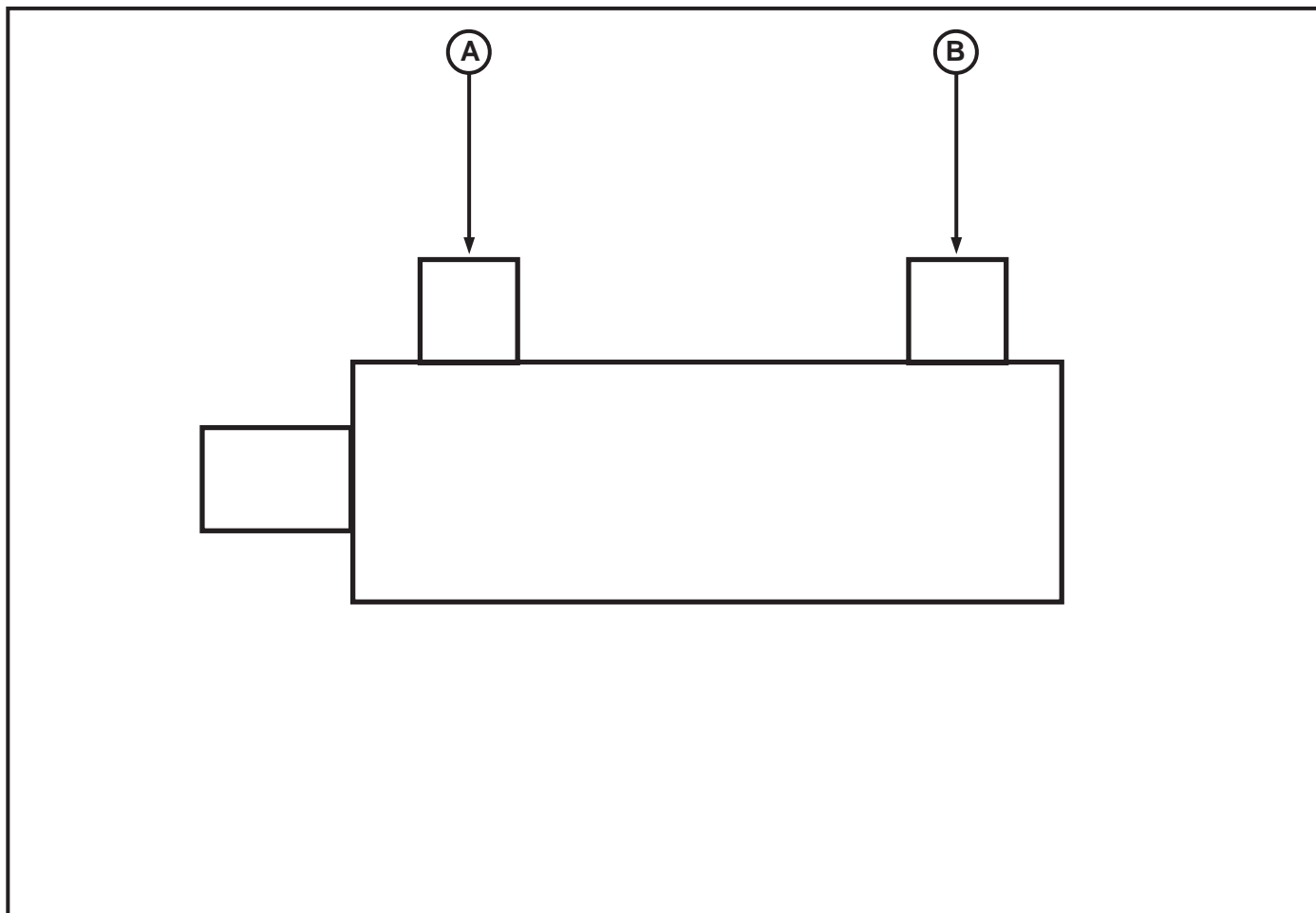
Hydraulics

T9 Steering Column 2WD and 4WD



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88658	"T" Port Steering Column	Drive System Block (B) (SEE PAGE 4.11)
B	88658	"P" Port Steering Column	Transmission - Gear Pump 2WD (D) (SEE PAGE 4.7)
	88658	"P" Port Steering Column	Transmission - Gear Pump 4WD (F) (SEE PAGE 4.8)
C	88465	"L" Port Steering Column	Steering Cylinder (A) (SEE PAGE 4.2)
D	88465	"R" Port Steering Column	Steering Cylinder (B) (SEE PAGE 4.2)

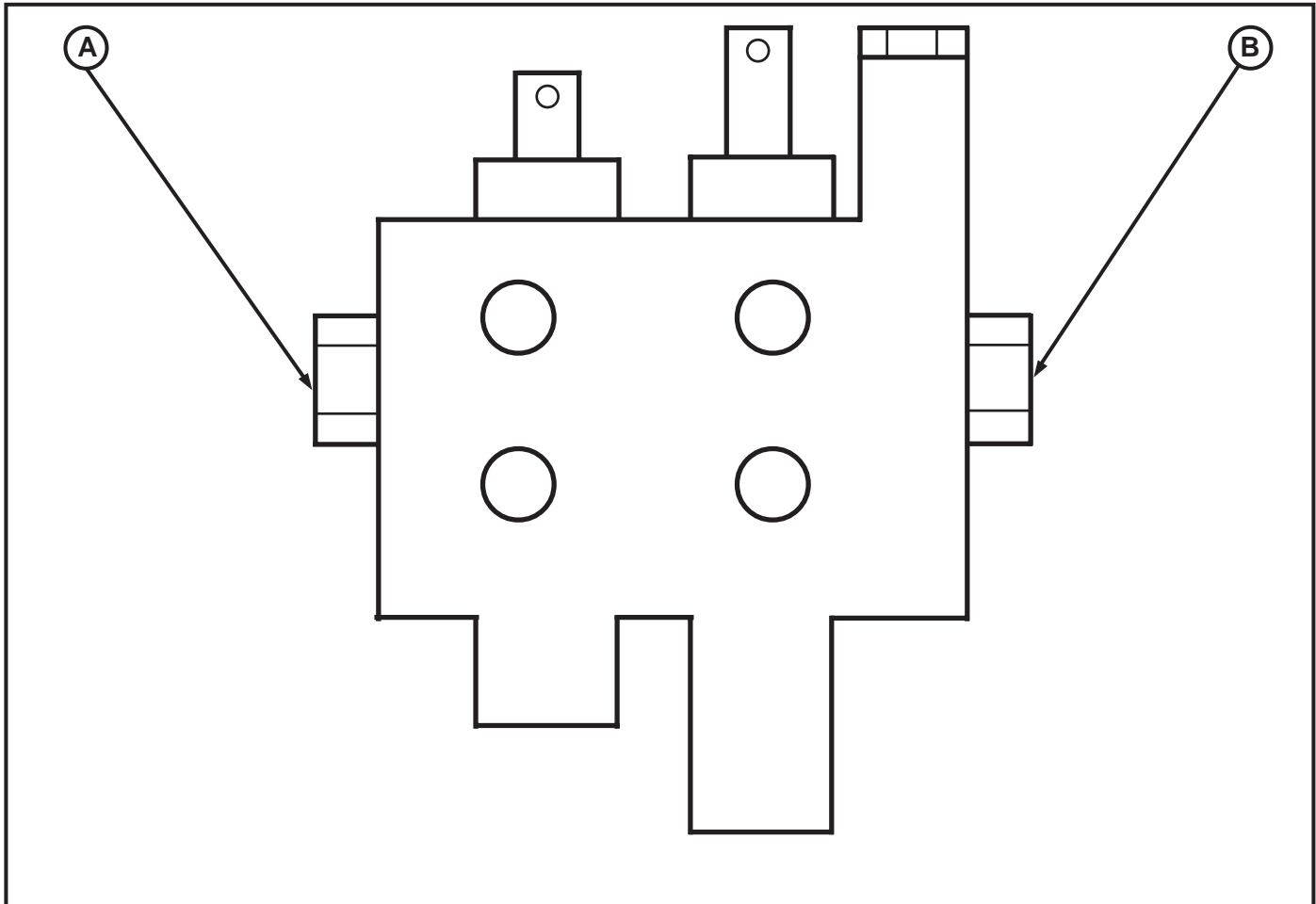
T9 Power Steering Cylinder



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88465	Steering Cylinder	Steering Column - Port "L" © (SEE PAGE 4.3)
B	88465	Steering Cylinder	Steering Column - Port "R" Ⓓ (SEE PAGE 4.3)

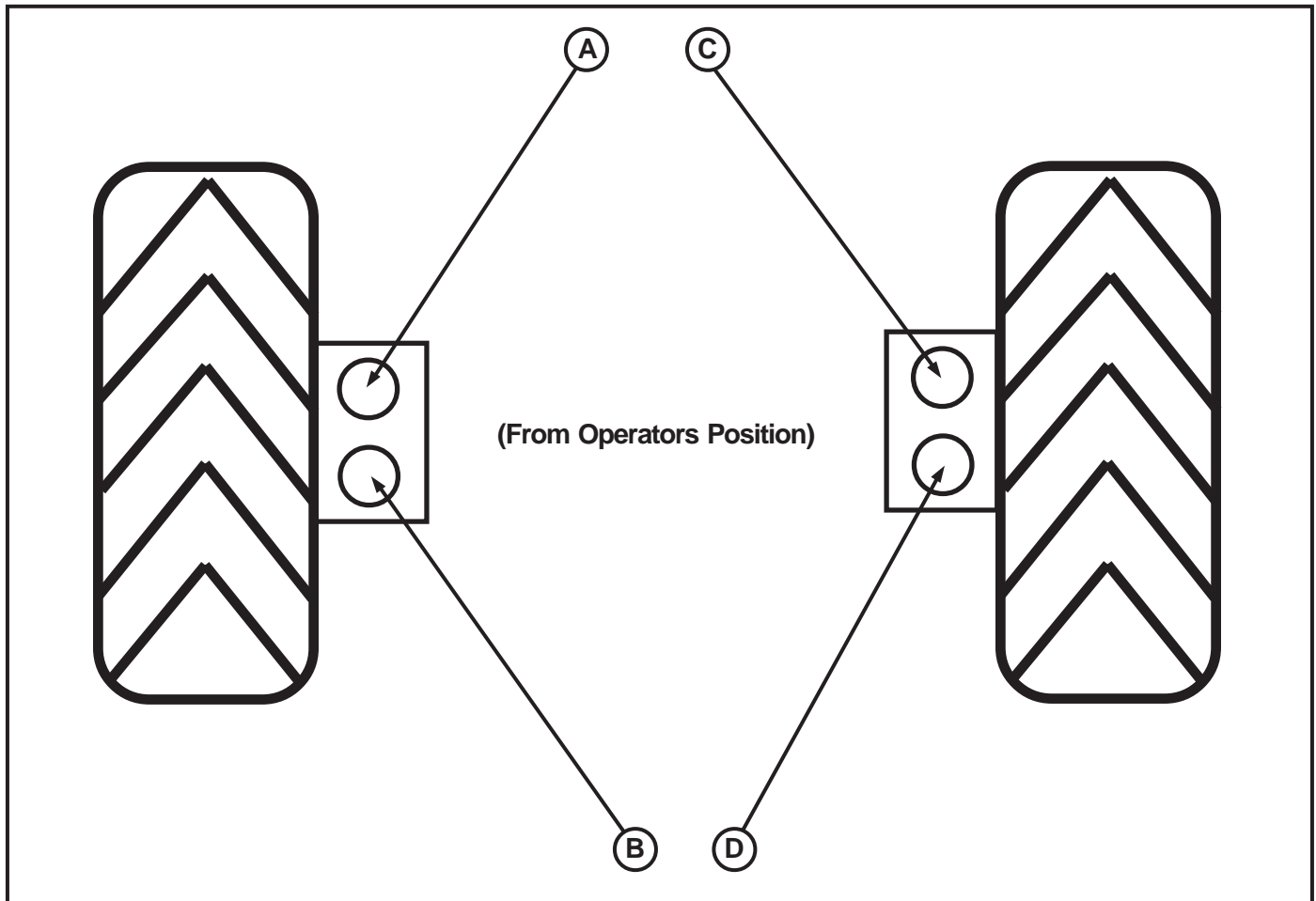
Hydraulics

T9 Loader Valve Assembly



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88831	Return - Front Valve Assembly	Oil Cooler (B) (SEE PAGE 4.1)
B	88880	Intake - Front Valve Assembly	Rear Valve Assembly - Pressure Port (A) (SEE PAGE 4.13)

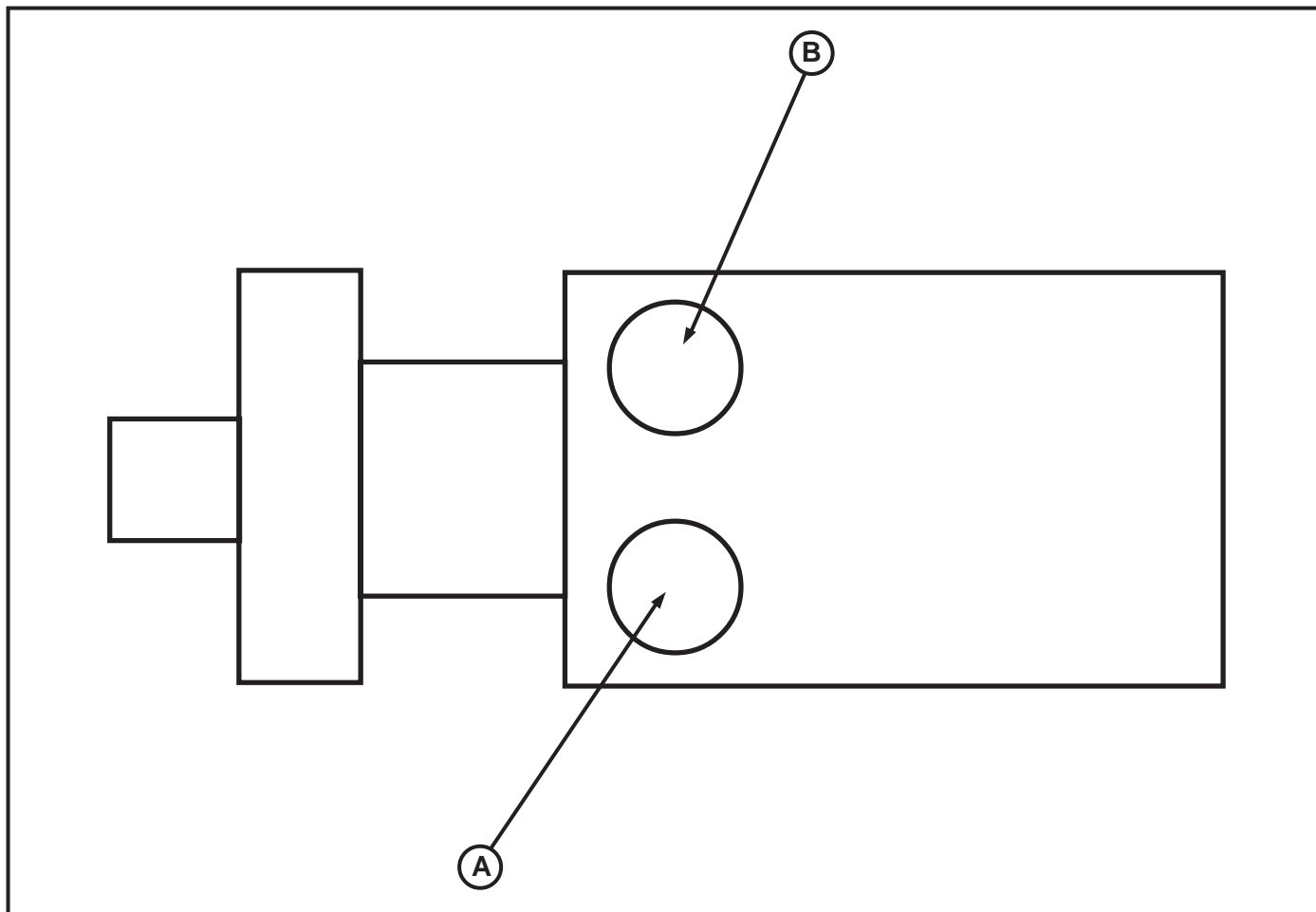
T9 4WD Front Axle Assembly



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88465	Upper Port - Left Motor	Cartridge Block (F) (SEE PAGE 4.10)
B	88465	Lower Port - Left Motor	Cartridge Block (B) (SEE PAGE 4.10)
C	88465	Upper Port - Right Motor	Cartridge Block (E) (SEE PAGE 4.10)
D	88465	Lower Port - Right Motor	Cartridge Block (A) (SEE PAGE 4.10)

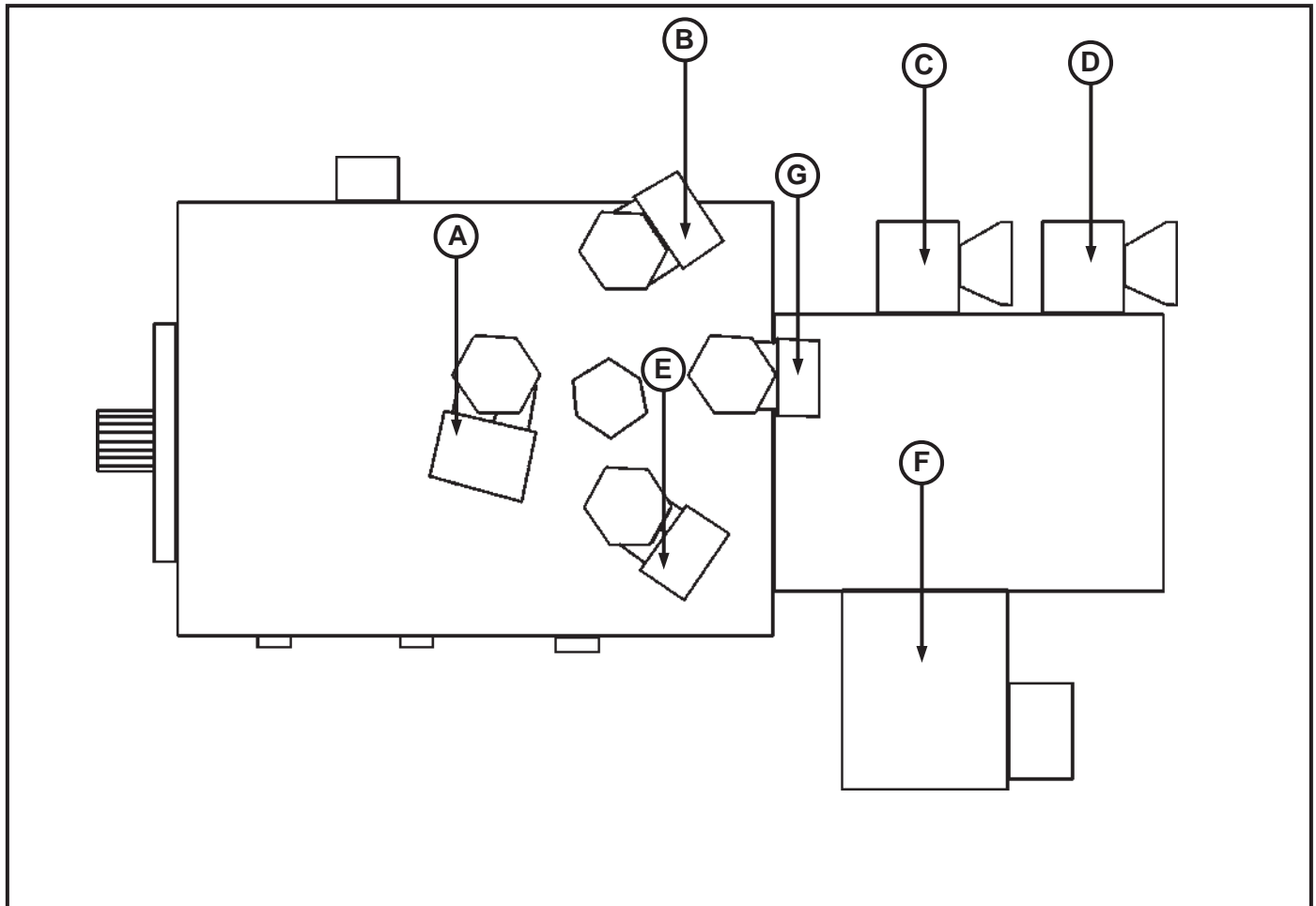
Hydraulics

T9 Torque Motor - 4WD



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88181	Torque Motor	Cartridge Block (D) (SEE PAGE 4.10)
B	88817	Torque Motor	Cartridge Block (C) (SEE PAGE 4.10)

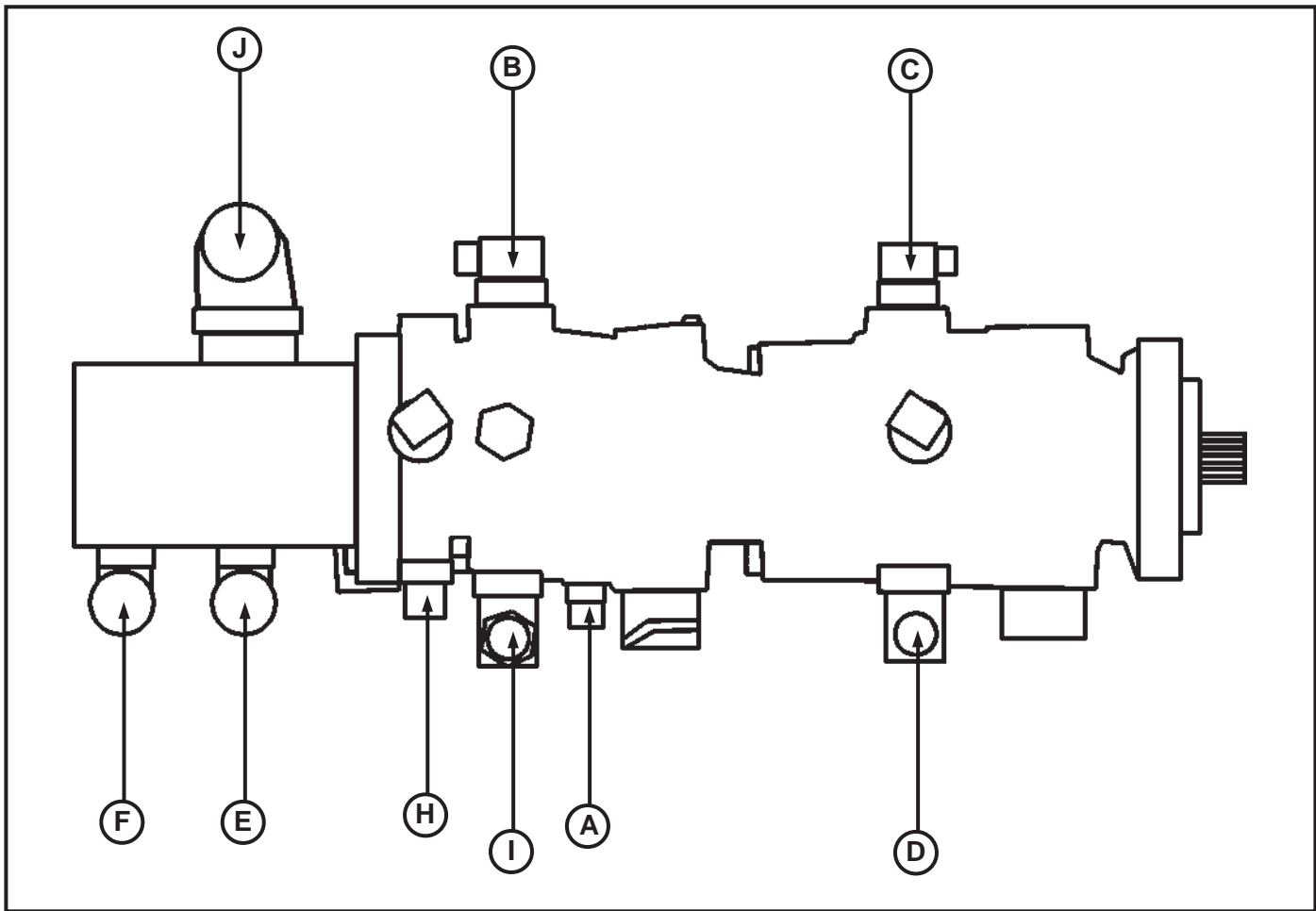
T9 Transmission - 2WD



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88614	Discharge Port - Transmission	Oil Tank - Upper return (A) (SEE PAGE 4.14)
B	88820	Exhaust Port - Transmission	Torque Motor - 2WD - (B) (SEE PAGE 4.9)
C	88857	Pressure Port - Gear Pump	Rear Valve Assembly Intake Port (C) (SEE PAGE 4.13)
D	88658	Pressure Port - Gear Pump	Steering Column - Port "P" (B) (SEE PAGE 4.3)
E	88820	Exhaust Port - Transmission	Torque Motor - 2WD - (A) (SEE PAGE 4.9)
F	88820	Charge Intake - Transmission	Oil Tank - Lower Return (C) (SEE PAGE 4.14)
G	81624	Intake Port - Gear Pump	Oil Tank - Intake (D) (SEE PAGE 4.14)

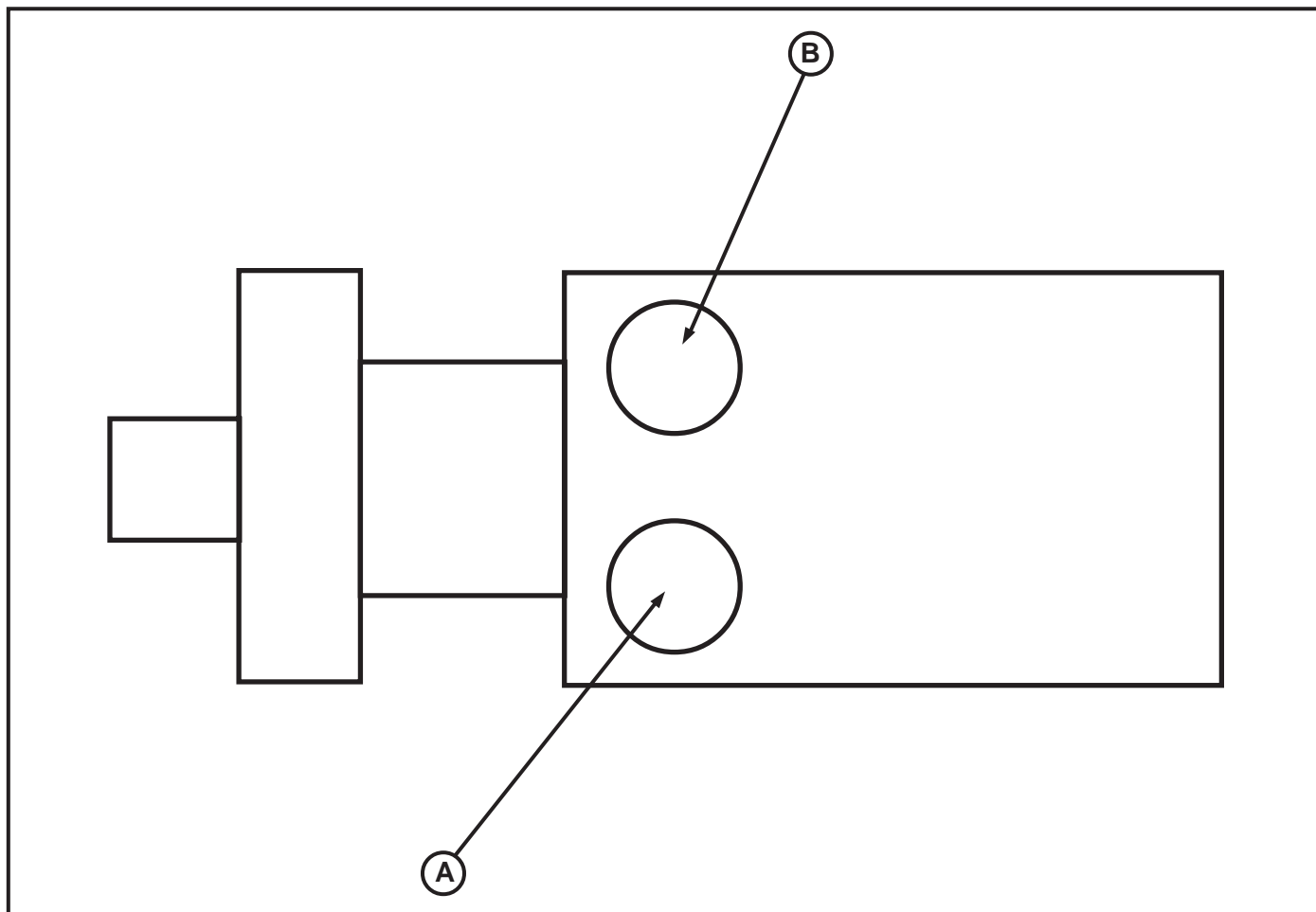
Hydraulics

T9 Transmission - 4WD



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88614	Discharge Port - Transmission	Oil Tank - Upper Return (A) (SEE PAGE 4.14)
B	80101	Exhaust Port - Transmission	Cartridge Block (H) (SEE PAGE 4.10)
C	80121	Exhaust Port - Transmission	Cartridge Block (I) (SEE PAGE 4.10)
D	88184	Charge Intake - Transmission	Oil Tank - Lower Return (C) (SEE PAGE 4.14)
E	88845	Pressure Port - Gear Pump	Rear Valve Assembly - Intake Port (C) (SEE PAGE 4.13)
F	88658	Pressure Port - Gear Pump	Steering Column (B) (SEE PAGE 4.3)
G	88181	Exhaust Port - Transmission	Cartridge Block (G) (SEE PAGE 4.10)
H	88608	Charge Pump - Transmission	Charge Pump - Transmission
I	88181	Exhaust Port - Transmission	Cartridge Block (J) (SEE PAGE 4.10)
J	81624	Intake Port - Gear Pump	Oil Tank - Intake (D) (SEE PAGE 4.14)

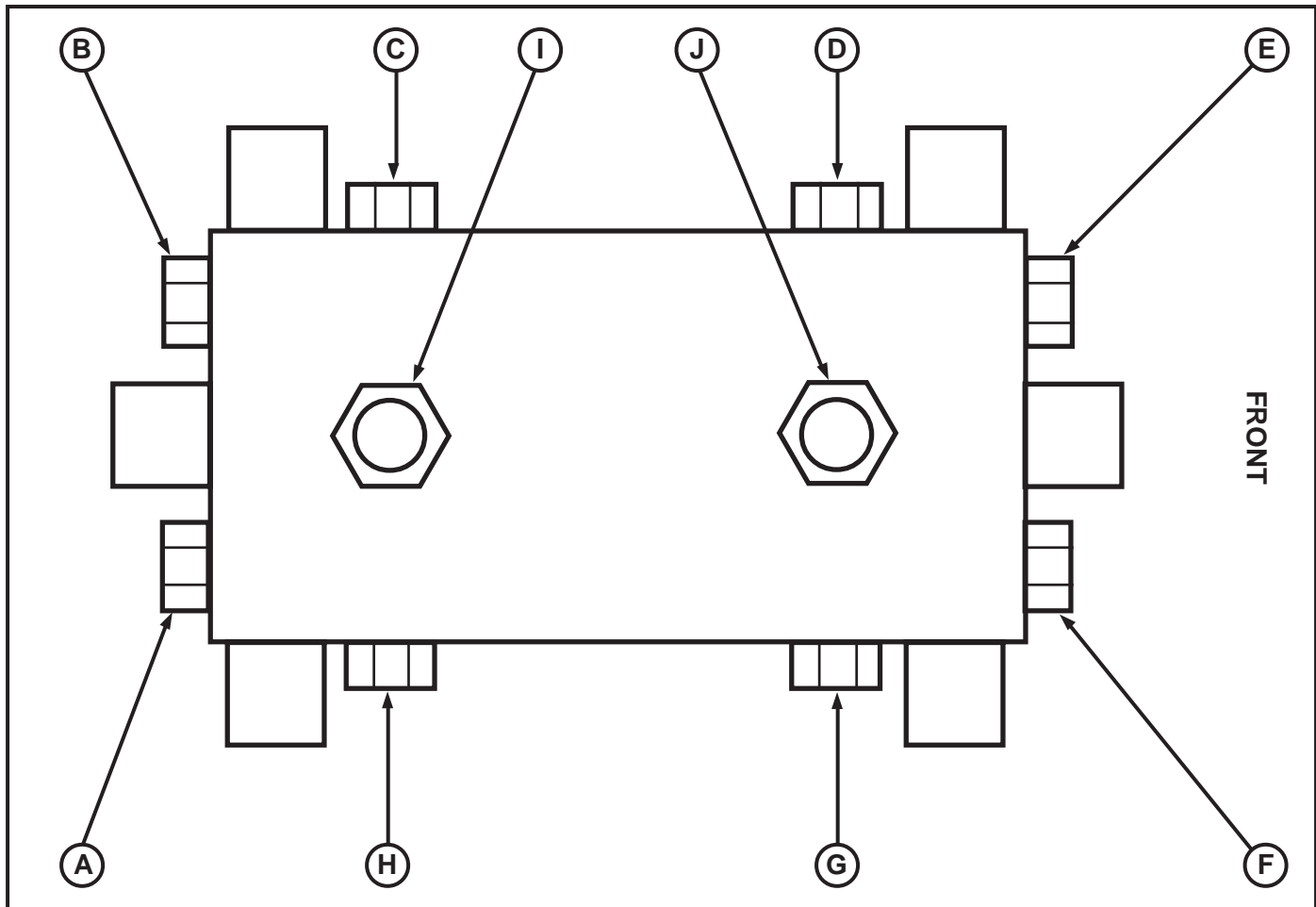
T9 Torque Motor - 2WD



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88820	Discharge Port - Transmission	Transmission - Exhaust Port - (E) (SEE PAGE 4.7)
B	88820	Torque Motor	Transmission - Exhaust Port - (E) (SEE PAGE 4.7)

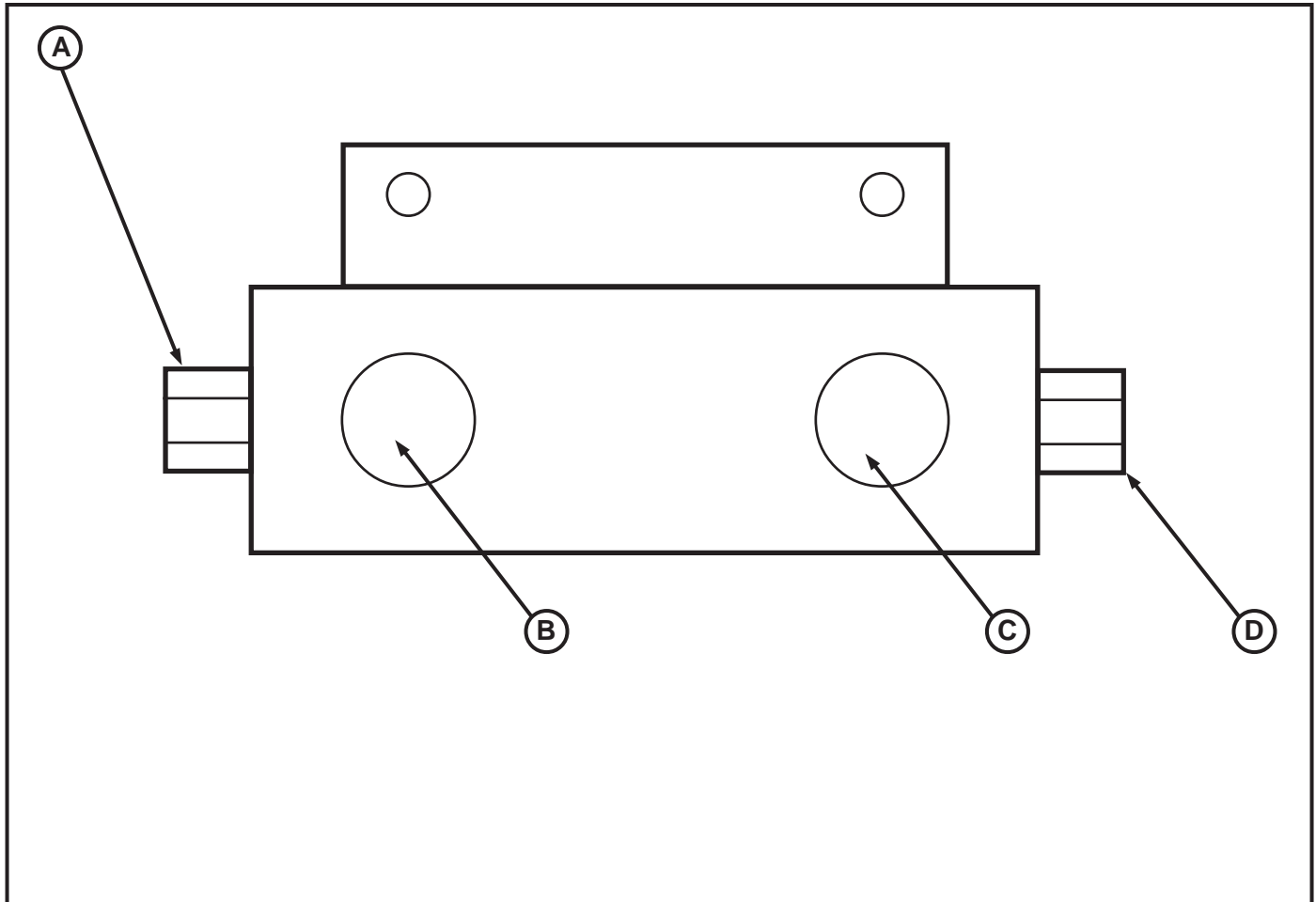
Hydraulics

T9 4WD Cartridge Block Prior to 2390201



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88465	Cartridge Block	Front Axle Assembly ④ (SEE PAGE 4.5)
B	88465	Cartridge Block	Front Axle Assembly ⑥ (SEE PAGE 4.5)
C	88817	Cartridge Block	Torque Motor ② (SEE PAGE 4.6)
D	88181	Cartridge Block	Torque Motor ① (SEE PAGE 4.6)
E	88465	Cartridge Block	Front Axle Assembly ③ (SEE PAGE 4.5)
F	88465	Cartridge Block	Front Axle Assembly ⑤ (SEE PAGE 4.5)
G	88181	Cartridge Block	Transmission Exhaust Port ⑦ (SEE PAGE 4.8)
H	80101	Cartridge Block	Transmission Exhaust Port ② (SEE PAGE 4.8)
I	80121	Cartridge Block	Transmission Exhaust Port ③ (SEE PAGE 4.8)
J	88181	Cartridge Block	Transmission Exhaust Port ① (SEE PAGE 4.8)

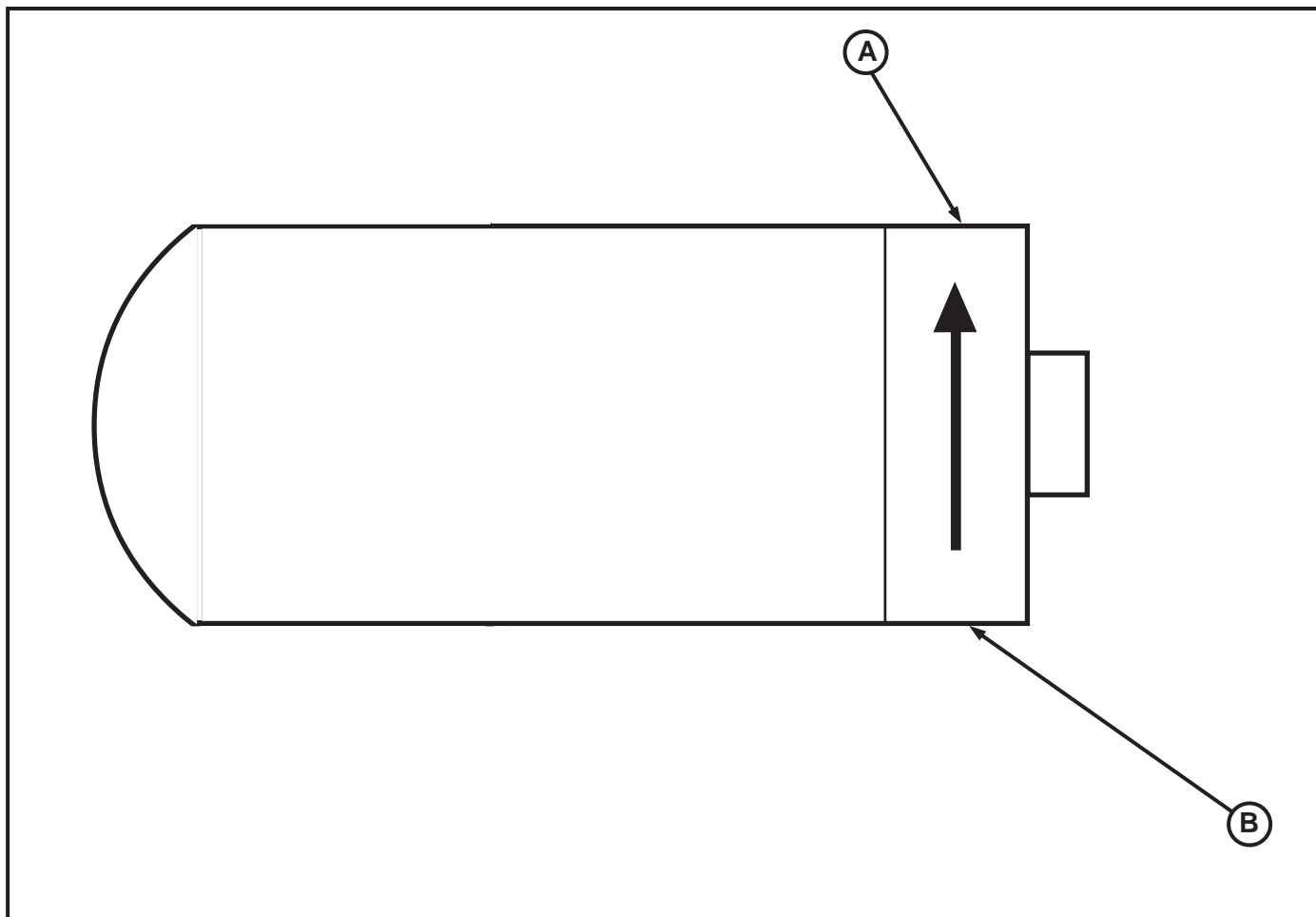
T9 Drive System Distributor Block After 2390201



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88100	Port A	Oil Cooler - Return Line (A) (SEE PAGE 4.1)
B	88658	Port B	Steering Column - Port "T" (A) (SEE PAGE 4.3)
C	88840	Port C	R. Valve - Return (B) (SEE PAGE 4.13)
D	81012	Port D	Filter - Intake (B) (SEE PAGE 4.12)

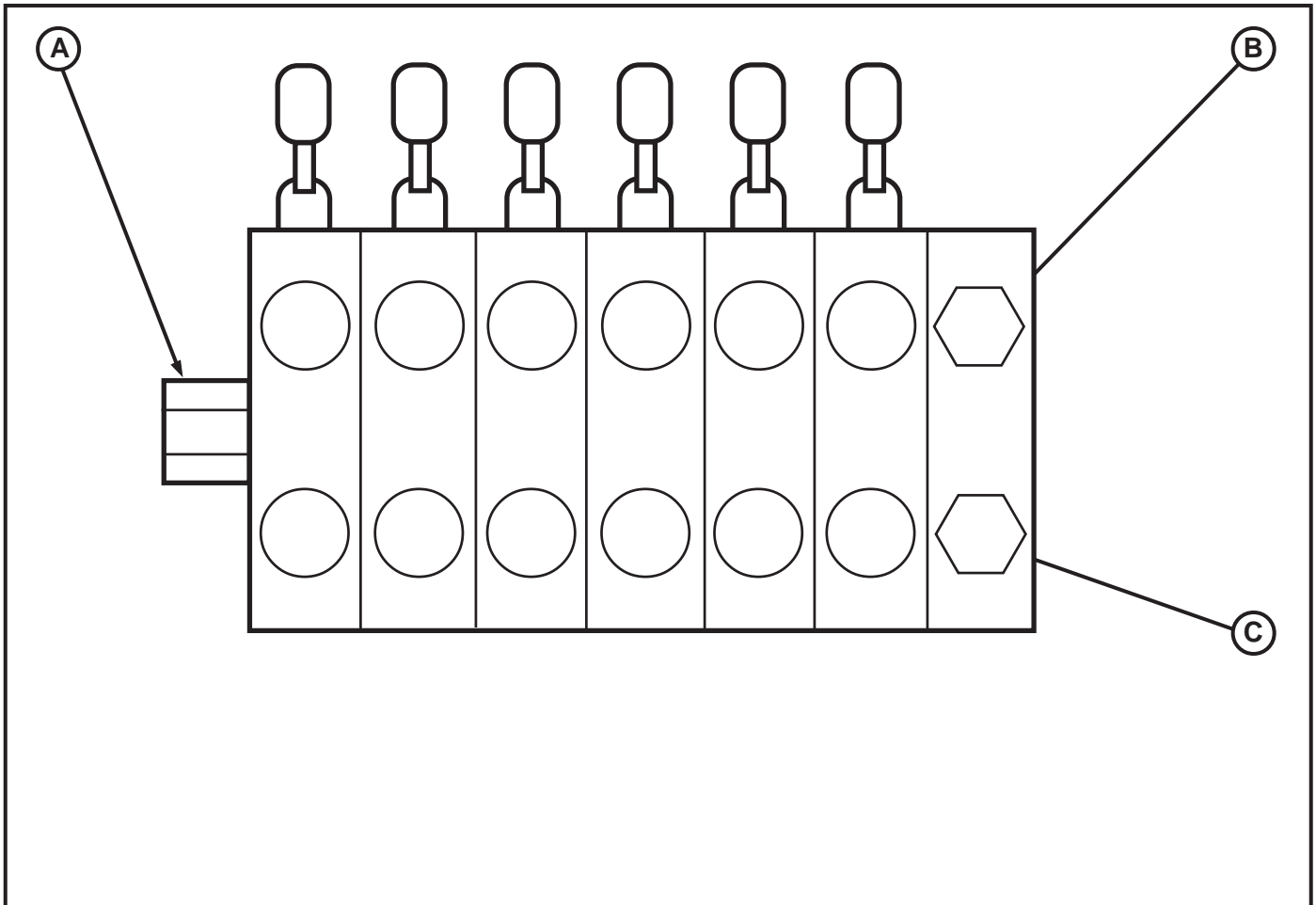
Hydraulics

T9 Filter Assembly



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	81028	Filter - Return Line	Oil Tank - Lower Return (B) (SEE PAGE 4.14)
B	81012	Filter - Intake Line	Drive System Block (D) (SEE PAGE 4.11)

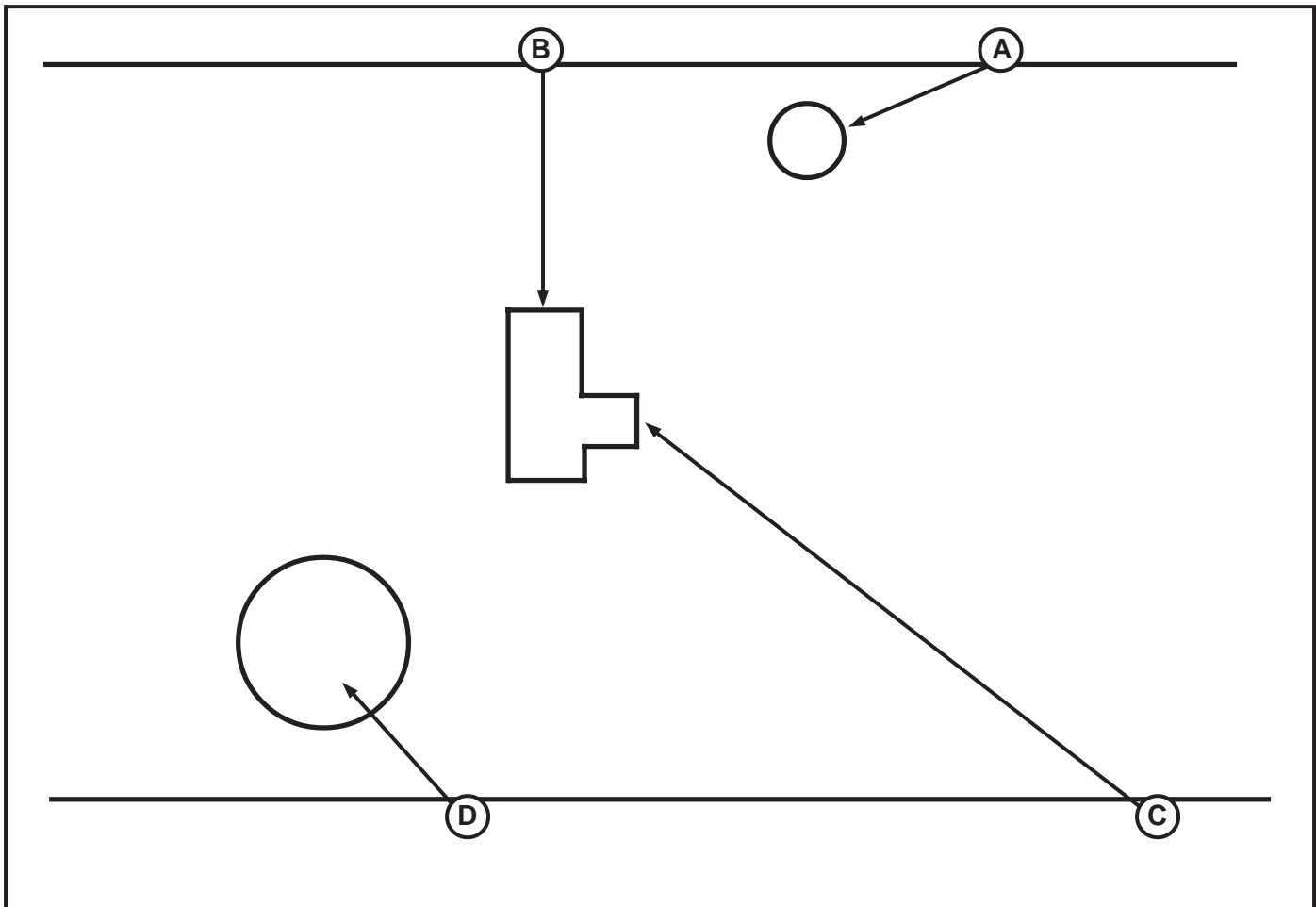
T9 Backhoe Valve Assembly



HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88880	Pressure Port - R. Valve Assembly	Front Valve - Intake (B) (SEE PAGE 4.4)
B	88840	Return Port - R. Valve Assembly	Drive System Block (C) (SEE PAGE 4.11)
C	88857	Intake Port - R. Valve Assembly	Transmission Gear Pump 2WD (C) (SEE PAGE 4.7)
	88465	Intake Port - R. Valve Assembly	Transmission Gear Pump 4WD (E) (SEE PAGE 4.8)

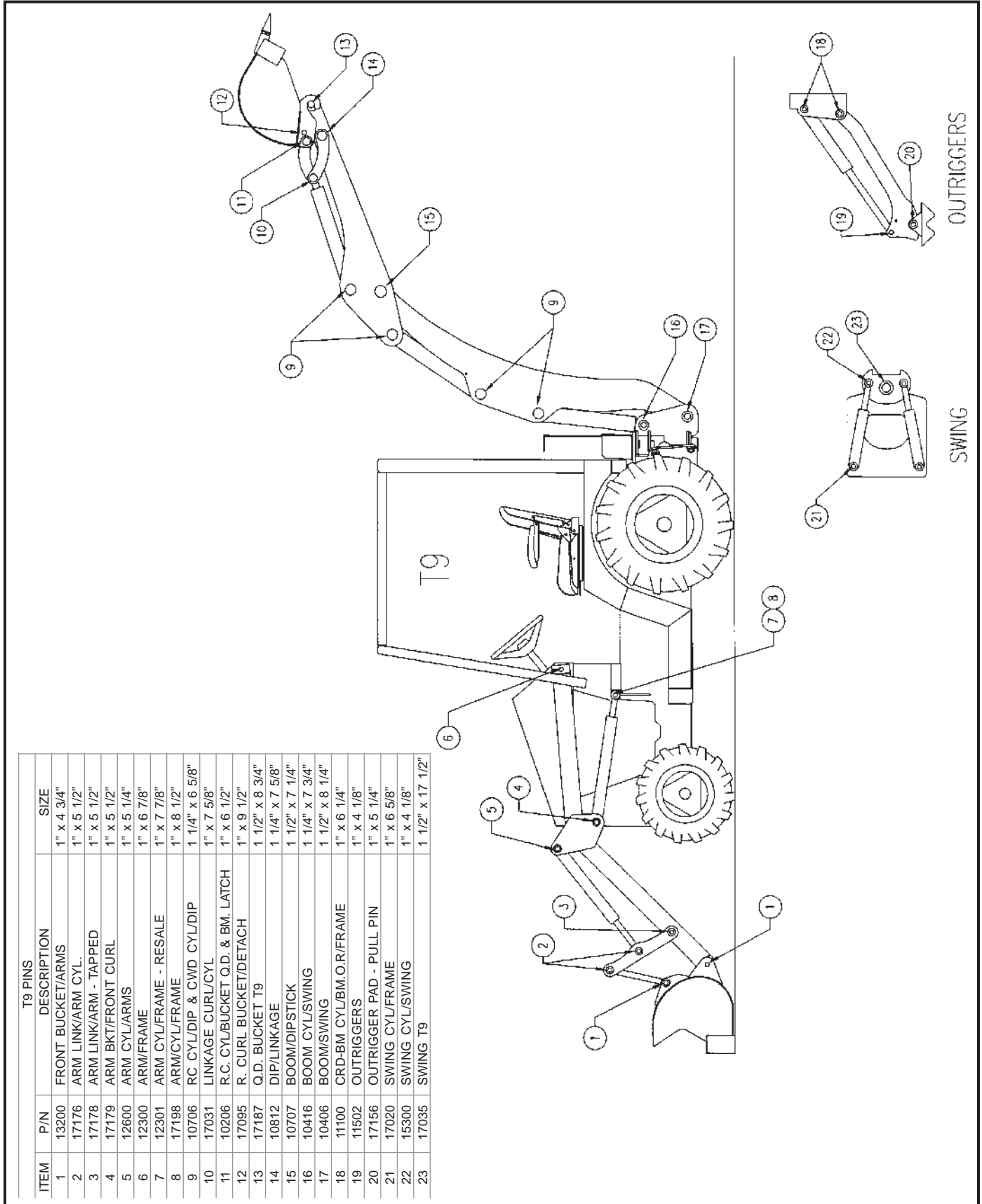
Hydraulics

T9 Hydraulic Oil Tank Assembly



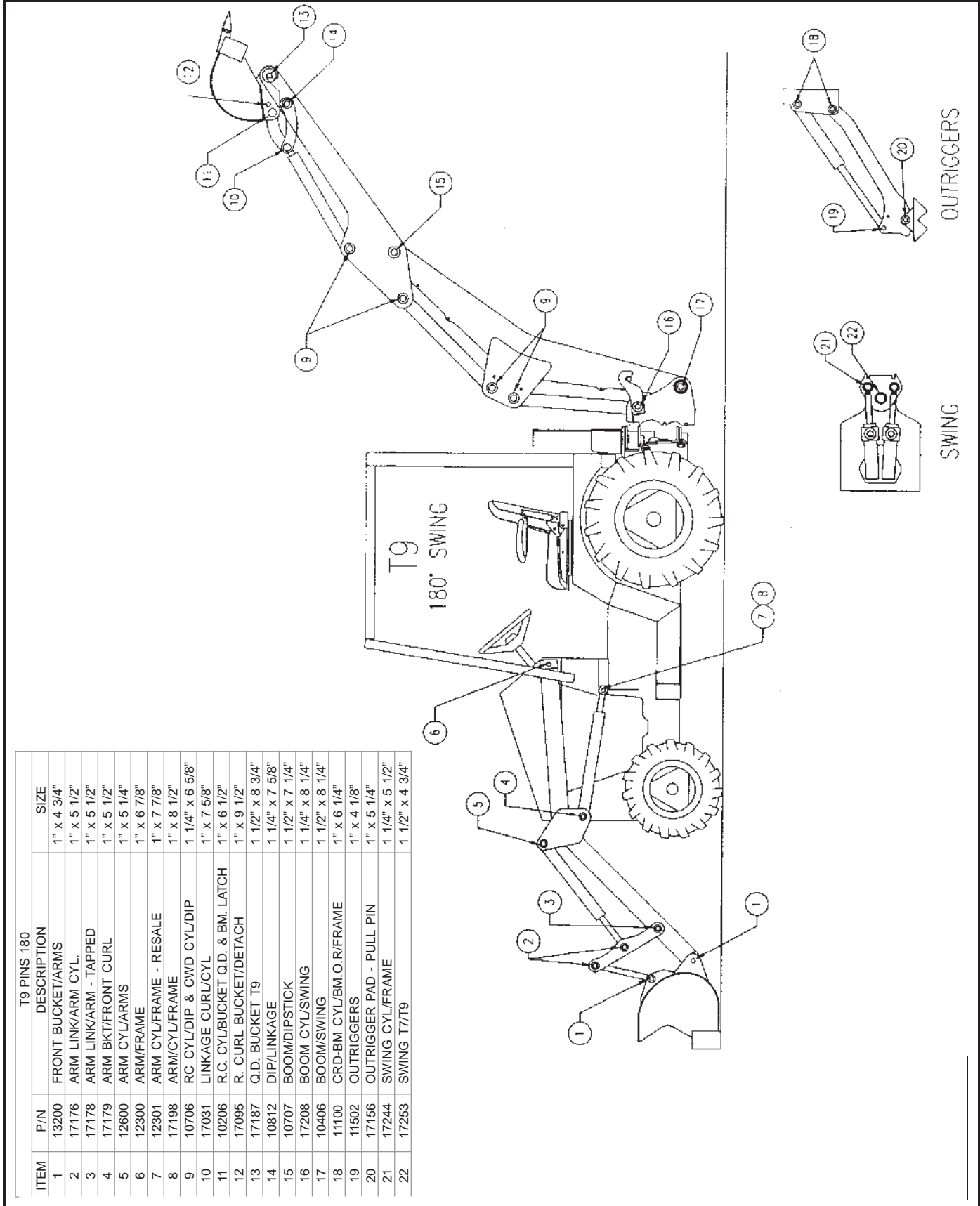
HOSE	PART NUMBER	STARTING POINT	ENDING POINT
A	88614	Oil Tank - Upper Return	Transmission - Discharge (A) (SEE PAGE 4.7)
B	81028	Oil Tank - Lower Return	Filter Assembly - Return (A) (SEE PAGE 4.12)
C	88820	Oil Tank - Lower Return	Transmission - Charge Intake 2WD (F) (SEE PAGE 4.7)
	88184	Oil Tank - Lower Return	Transmission - Charge Intake 4WD (D) (SEE PAGE 4.8)
D	81624	Oil Tank - Intake	Transmission - Gear Pump Intake 4WD (J) (SEE PAGE 4.8)
	81624	Oil Tank - Intake	Transmission - Gear Pump 2WD (G) (SEE PAGE 4.7)

T9 Pin Chart



Components

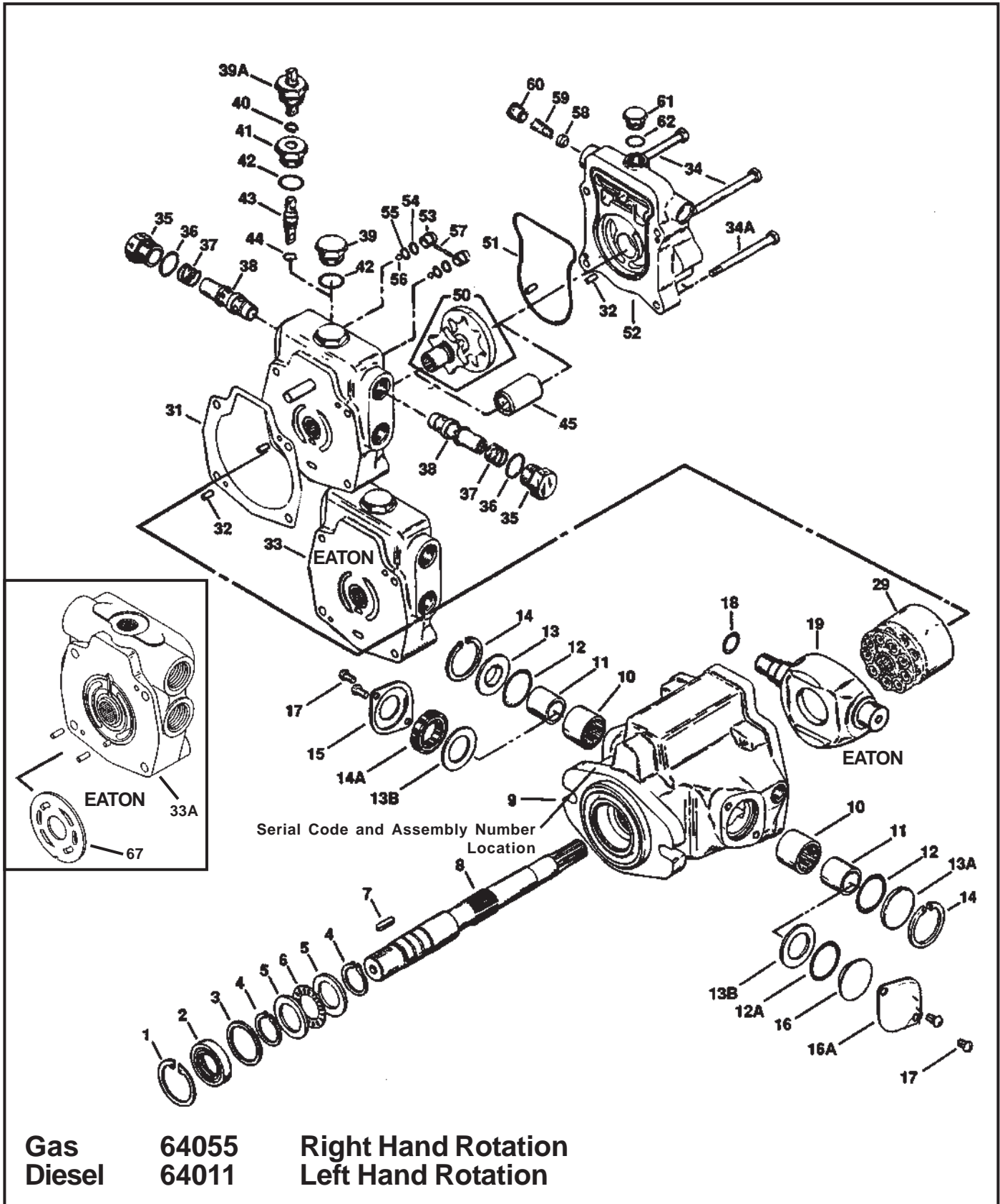
T9 Pin Chart 180 Degree Swing



T9 PINS 180			
ITEM	P/N	DESCRIPTION	SIZE
1	13200	FRONT BUCKET/ARMS	1" x 4 3/4"
2	17176	ARM LINK/ARM CYL.	1" x 5 1/2"
3	17178	ARM LINK/ARM - TAPPED	1" x 5 1/2"
4	17179	ARM BKT/FRONT CURL	1" x 5 1/2"
5	12600	ARM CYL/ARMS	1" x 5 1/4"
6	12300	ARM/FRAME	1" x 6 7/8"
7	12301	ARM CYL/FRAME - RESALE	1" x 7 7/8"
8	17198	ARM/CYL/FRAME	1" x 8 1/2"
9	10706	RC CYL/DIP & CWD CYL/DIP	1 1/4" x 6 5/8"
10	17031	LINKAGE CURL/CYL	1" x 7 5/8"
11	10206	R.C. CYL/BUCKET Q.D. & BM. LATCH	1" x 6 1/2"
12	17095	R. CURL BUCKET/DETACH	1" x 9 1/2"
13	17187	Q.D. BUCKET T9	1 1/2" x 8 3/4"
14	10812	DIP/LINKAGE	1 1/4" x 7 5/8"
15	10707	BOOM/DIPSTICK	1 1/2" x 7 1/4"
16	17208	BOOM CYL/SWING	1 1/4" x 8 1/4"
17	10406	BOOM/SWING	1 1/2" x 8 1/4"
18	11100	CRD-BM CYL/BM.O.R/FRAME	1" x 6 1/4"
19	11502	OUTRIGGERS	1" x 4 1/8"
20	17156	OUTRIGGER PAD - PULL PIN	1" x 5 1/4"
21	17244	SWING CYL/FRAME	1 1/4" x 5 1/2"
22	17253	SWING T7/T9	1 1/2" x 4 3/4"

Components

Hydrastatic Transmission

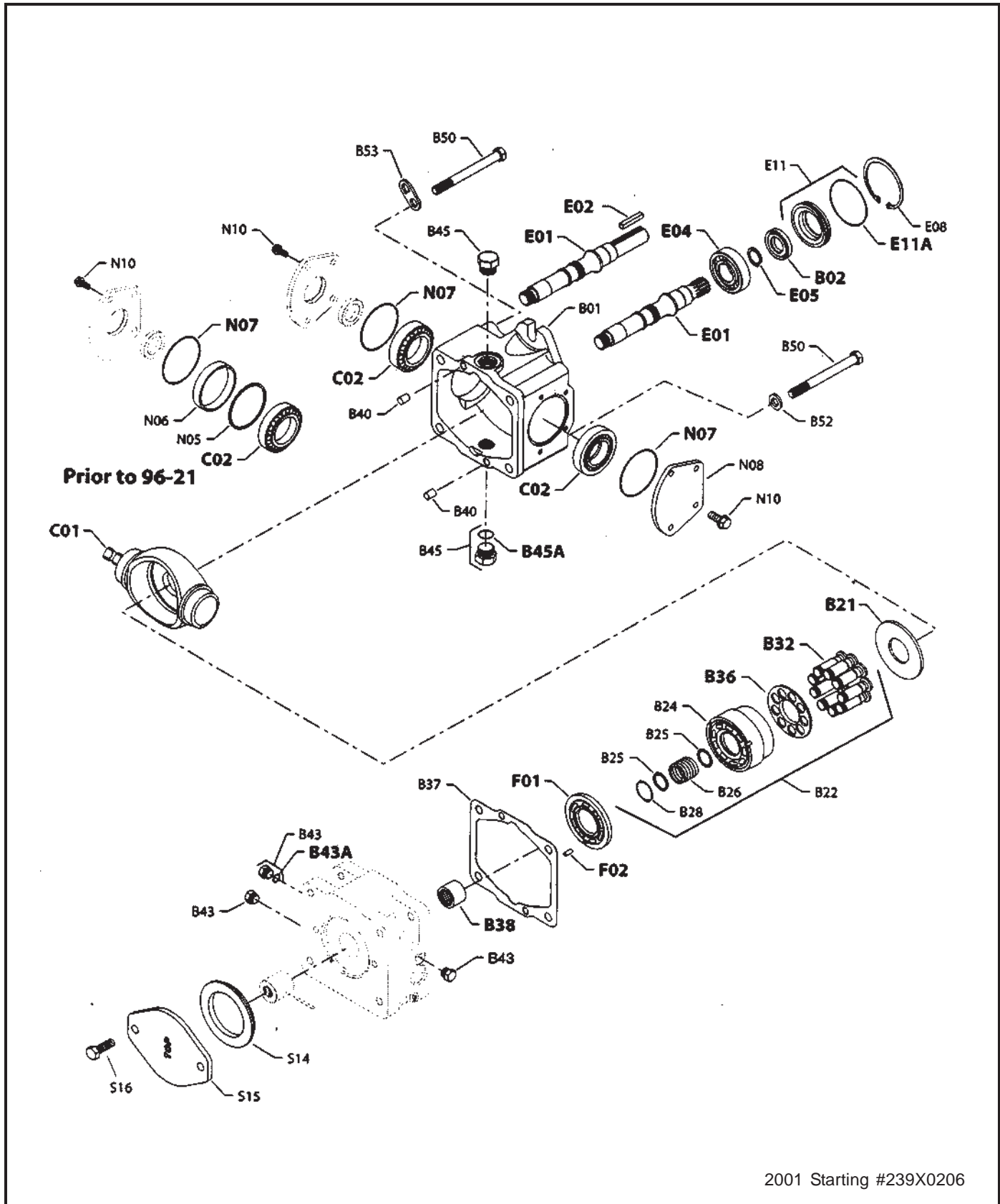


*PLEASE PROVIDE SERIAL NUMBER OF MACHINE WHEN ORDERING ANY COMPONENT PARTS.

ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	60401	6-00.4.01	Retaining Ring	1
2	60402	6-00.4.02	Shaft Seal	1
3	60403	6-00.4.03	Washer	1
4	60404	6-00.4.04	Retaining Ring	2
5	60405	6-00.4.05	Bearing Race	2
6	60406	6-00.4.06	Bearing, Thrust	1
7	60471	6-00.4.07K	Key	1
8	60407	6-00.4.07	Drive Shaft	1
9	60409	6-00.4.09	Housing Assembly	1
10	60410	6-00.4.10	Bearing	2
11	60411	6-00.4.11	Inner Race	2
12	60412	6-00.4.12	O-Ring, 3 ³ / ₃₂ " x 1 ⁵ / ₁₆ ", Outer Pintle	2
13	60465	6-00.4.65	Sleeve Cover	1
13A	60415	6-00.4.15	Trunnion Cover	1
13B	60561	6-00.5.61	Washer	1
14	60414	6-00.4.14	Retaining Ring	2
14A	60562	6-00.5.62	Seal, Pintle	1
15	60418	6-00.4.18	Seal Cover	1
17	60564	6-00.5.64	Screws, Trunnion Cover	2
18	60516	6-00.4.16	O-Ring, Outer Pintle	1
19	60517	6-00.5.17 EATON	Camplate, For Eaton Trans.	1
29	60422	6-00.4.22	Rotating Kit Assembly	1
31	60429	6-00.4.29	Housing, Gasket	1
33	60533	6-00.5.33	Backplate Assy., Eaton, with Power Steering	1
33A	60535	6-00.5P	Backplate Assy., w/valve plate, Eaton	1
35	60436	6-00.4.36	Plug Assembly	2
36	60435	6-00.4.35	O-Ring 3 ³ / ₃₂ " x 7 ⁷ / ₈ " ID, Back Plate	1
37	60434	6-00.4.34	Spring, Transmission, Relief Valve	2
38	60467	6-00.4.67	Relief Valve Assembly	2
39	60433	6-00.4.33	Plug Assembly	1
40	60440	6-00.4.40	Retaining Ring	1
41	60441	6-00.4.41	Separator Plug	1
42	60442	6-00.4.42	O-Ring, 3 ³ / ₃₂ " x 7 ⁷ / ₈ "	1
43	60454	6-00.4.54	Spreader	1
44	60437	6-00.4.37	O-Ring, 1 ¹ / ₁₆ " x 3 ³ / ₈ "	1
45	60443	6-00.4.43	Coupler	1
51	60449	6-00.4.49	O-Ring, Molded	1
52	60453	6-00.4.53	Adapter Assembly without Power Steering	1
	60553	6-00.5.53	Adapter Assembly with Power Steering	
53	60450	6-00.4.50	Check Valve Assembly	2
54	60452	6-00.4.52	Back Up Washer	2
55	60455	6-00.4.55	O-Ring, 1 ¹ / ₁₆ " x 7 ⁷ / ₁₆ "	2
56	60456	6-00.4.56	Steel Ball	2
57	60457	6-00.4.57	Pin	2
58	60461	6-00.4.61	Poppet Filter Relief	1
59	60463	6-00.4.63	Spring	1
60	60560	6-00.5.60	Spring Retainer	1
61	60469	6-00.4.69	Plug Assembly	1
62	60466	6-00.4.66	O-Ring, 3 ³ / ₃₂ " x 4 ¹ / ₆₄ "	1
64	60464	6-00.4.64	O-Ring, 1 ¹ / ₁₆ " x 3 ¹ / ₄ "	1
65	60465	6-00.4.65	Cover Plate	1
66	60459	6-00.4.59	Cap Screw	2
67	60534	6-00.5VP	Plate, Valve	1
*S	64101	6-00.4.100.1 EATON	Seal Repair Kit Eaton	1
*S	60564	6-00.5.64	Screws, Trunnion Cover	2

Components

Sunstrand Transmission



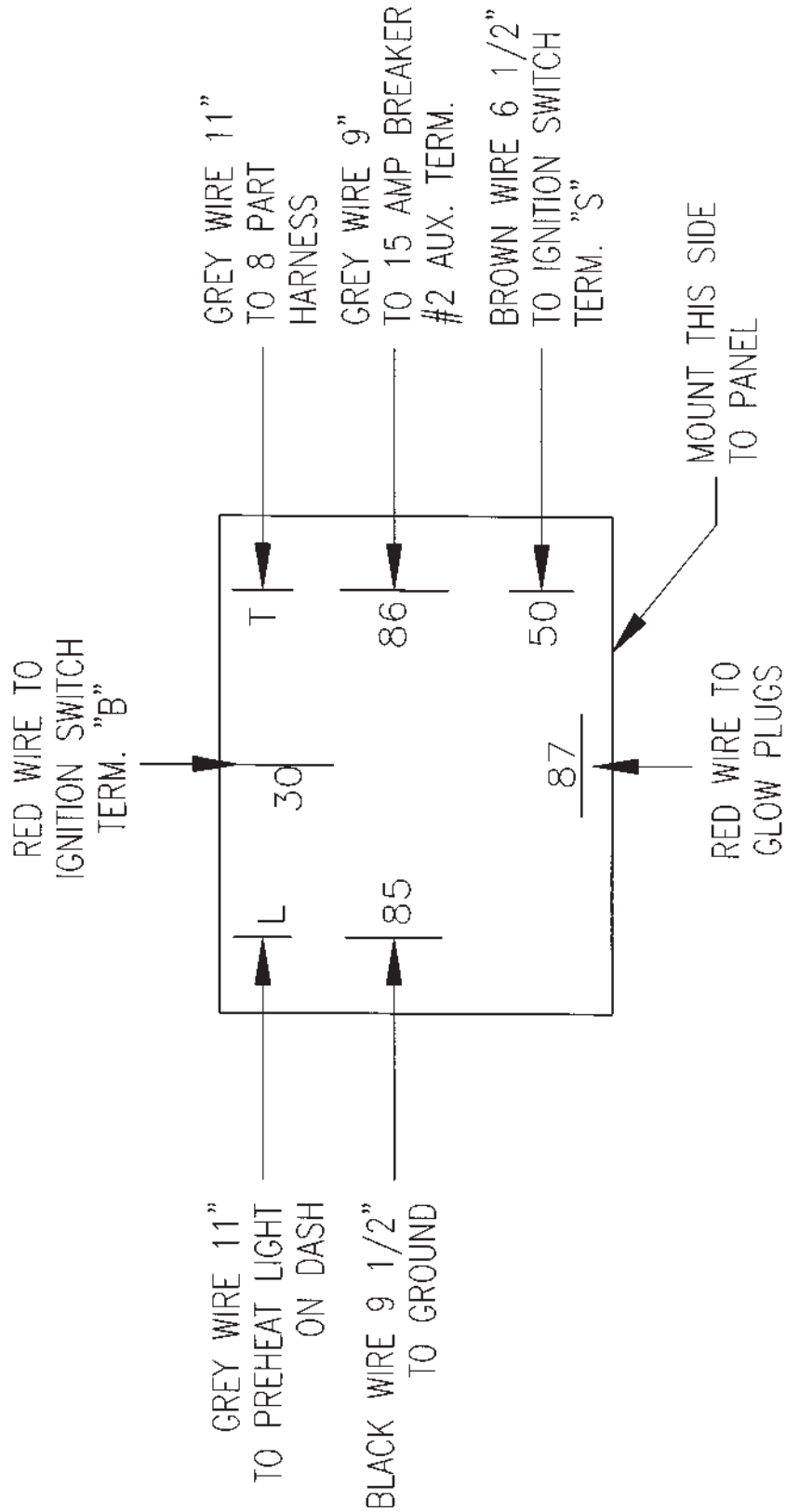
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
B01	4250152		Housing	1
B02	500748	9008000-0132	Lip Seal	1
B03	3103218		Thrust Plate	1
B22	4250062		Cylinder block kit	1
B24	4250095		Cylinder block	1
B25	9009625-0106		Washer	2
B26	3103199		Spring	1
B28	9006250-0131		Retaining Ring	1
B32	4250127		Piston Assembly	9
B36	3103197		Slipper retainer	1
B37	425003		End cap gasket	1
B38	5000046		Needle bearing	1
B40	001289	9004800-3708	Pin	2
B43	001511	9005100-4400	Plug	3
B43A	001123	9004201-2500	O-ring	3
B45	001537	9005100-8700	Plug	2
B45A	001149	9004201-6200	O-ring	2
B50	9007200-4448		Screw	4
B52	002337	9009611-4778	Washer	3
B53	006999	9800999	Lifting Bracket	1
E04	374447	9001310-0008	Ball bearing	1
E05	5000660		Retaining ring	1
E08	9006200-0256		Retaining ring	1
E11	4250176		Seal carrier assembly	1
E11A	505536	9004100-0350	O-ring	1
N07	9004300-1460		O-ring	2
N08	4250027		Trunnion cover	1
N10	001909	9007200-3112	Screw	8
N10	516517	9007276-0135	Screw	8
S14	4800482		A pad seal	1
S15	4460586		Cover Plate	1
S16	9007200-3716		Screw	1

Swashplate				
C01	4250102		Swashplate	1
C01	4510126		Swashplate kit (SB-1996-010)	1
C02	4800470		Tapered roller bearing	2
C02	508996	9001415-0006	Tapered roller bearing (SB-1996-010)	2
N05	4510026		Trunnion shim kit (SB-1996-010)	2
N06	4250043		Spacer (SB-1996-010)	2

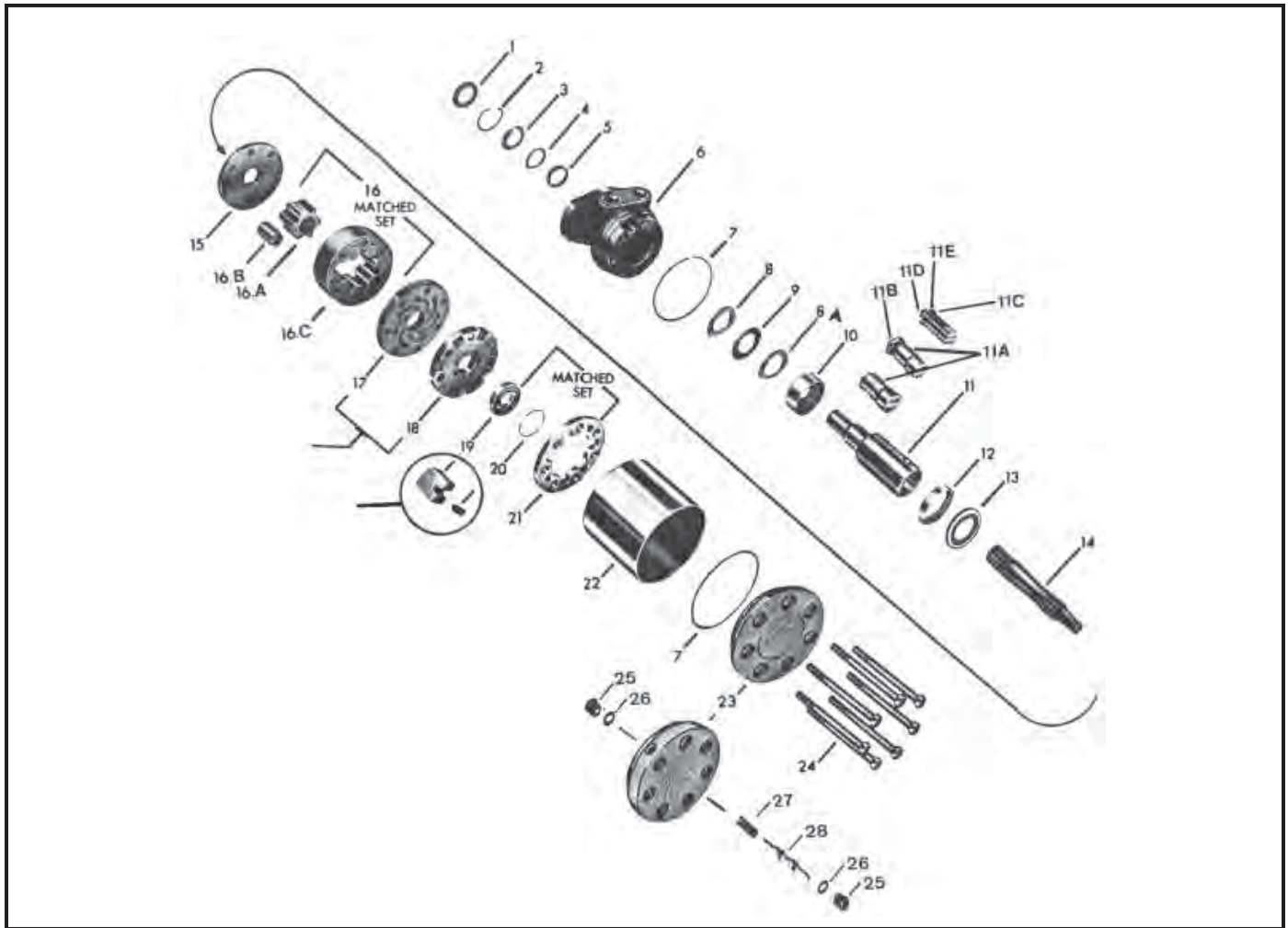
Input Shaft				
E01	4250001		Shaft, 13 tooth spline	1
E01	4250161		Shaft, 20 tooth spline	1
E01	4250013		Shaft, straight key	1
E02	509647	9003261-2524	Key	1

T9 Glow Plug Timer

P/N 70038 GLOW PLUG TIMER RELAY



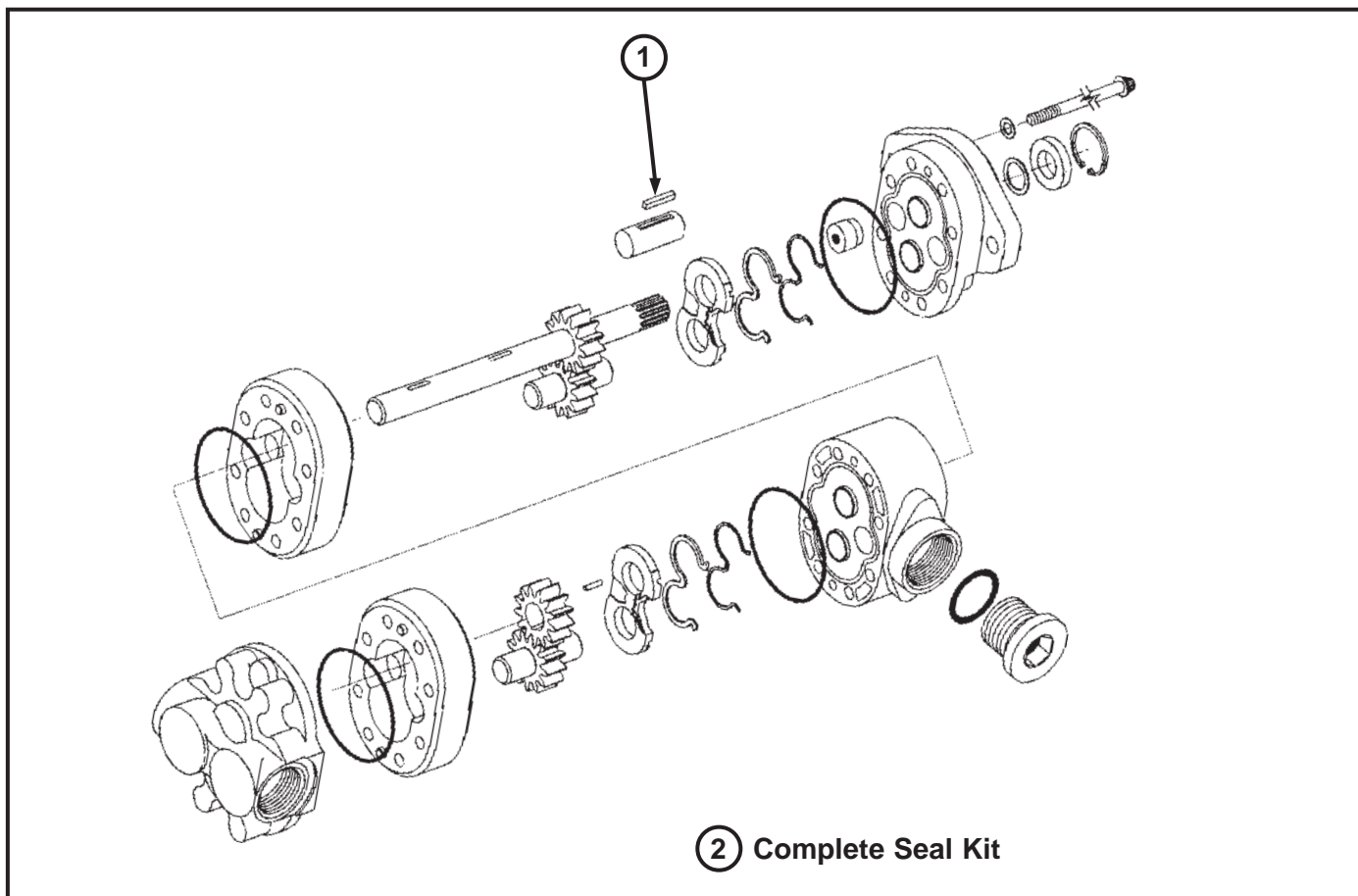
Torquemotor Exploded Assembly View



ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	Seal	11B	Nut	17	Manifold Plate
2	Retaining Ring	11C	Washer	18	Manifold
3	Back-Up Washer	11D	Bolt	19	Commutator
4	Washer	11E	Lock Washer	20	Seal Ring
5	Seal	12	Bearing	21	Commutator Ring
6	Housing	13	Thrust Bearing	22	Sleeve
7	Seal Ring (2)	14	Drive Link	23	End Cover Assembly
8	Thrust Washer	15	Wear Plate	24	Special Bolt (7)
8A	Thrust Washer	16	Rotor Set	25	Plug
9	Thrust Bearing	16A	Rotor	26	O-Ring
10	Bearing	16B	Vane (7)	27	Sping
11	Coupling Shaft	16C	Stator	28	Valve (Shuttle)
11A	Key				

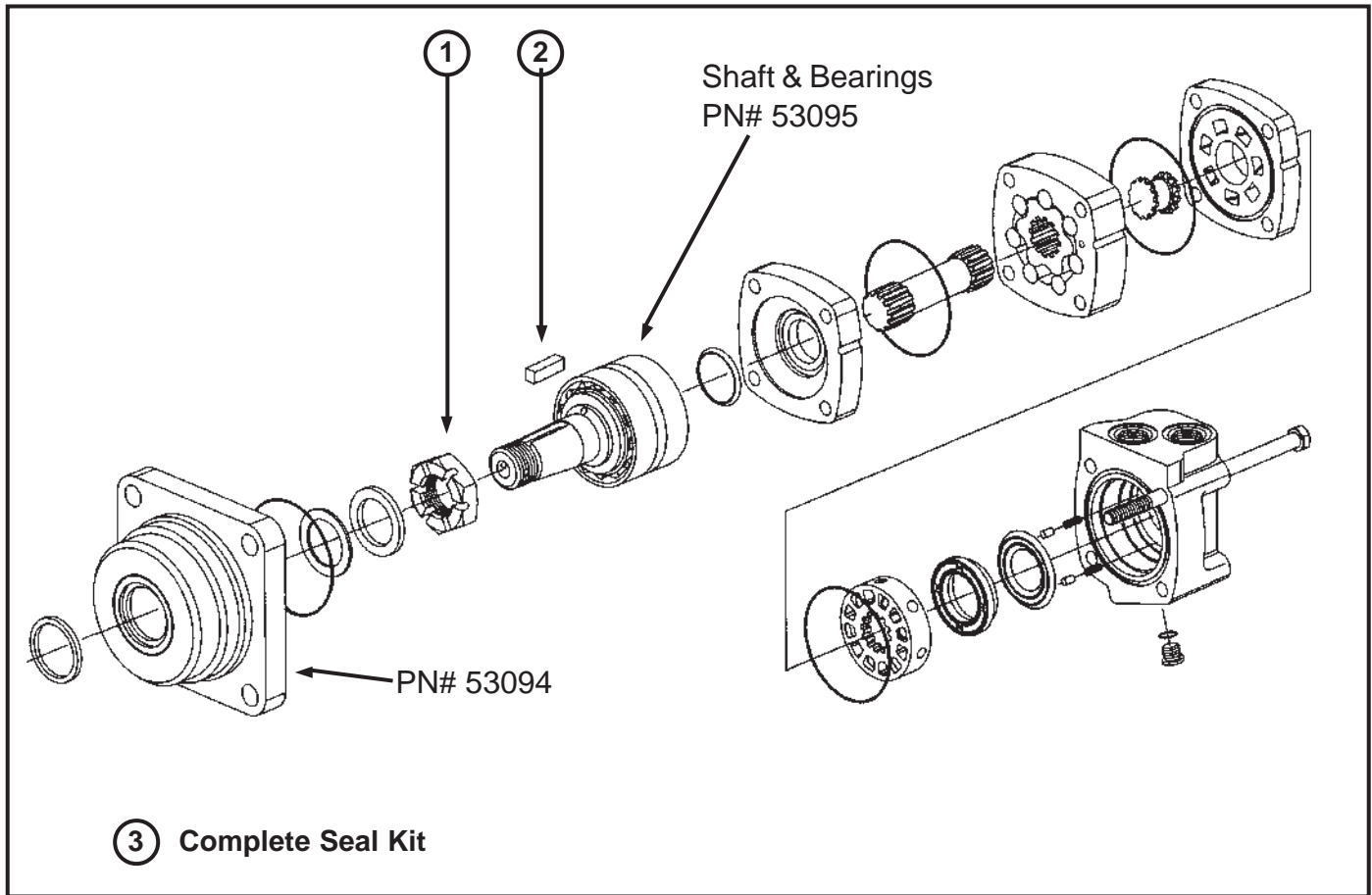
Components

Gear Pump Part Number 66007



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	64049	Key, Coupler, Cessna	1
2	66030	Kit, Seal, Double Gear Pump	1

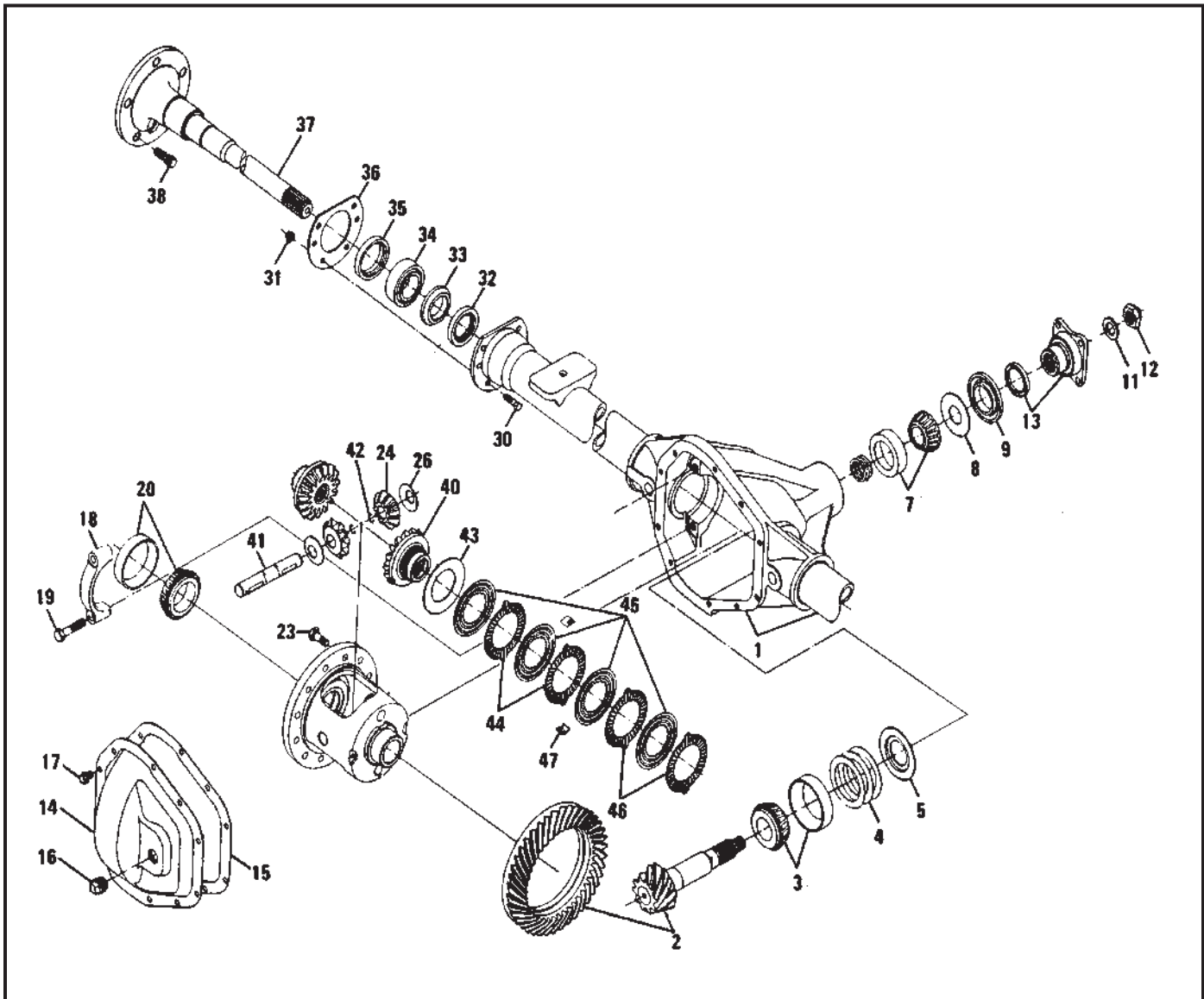
Drive Motor Part Number 62000 - 4WD Only



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	62032	Nut, Torque Motor, Front Drive, T6/T9 4WD	2
2	62033	Key, Torque Motor, Front Drive, T6/T9 4WD	2
3	62028	Kit, Seal, Drive Motor, Eaton	1
	53096	Kit, Seal, Drive Motor, Extreme Condition (Optional)	

Components

Rear Axle Assembly



ITEM	PART NUMBER	DESCRIPTION	DANA PART NO.	QTY.
1	55010	Housing-Axle	*	
2	64004	Gear & Pinion Ass'y-Drive	*	
3	55030	Kit-Inner Pinion Bearing	706031X	
4	55040	Shim-Drive Pinion Adjusting Kit	*	
5	55050	Baffle-Pinion Bearing	*	
7	55022	Kit-Outer Pinion Bearing	706030X	
8	55080	Slinger-Pinion Bearing Outer	*	
9	55090	Seal-Pinion	35723	

Continued On Next Page

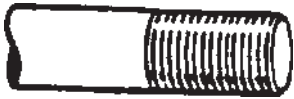
Rear Axle Assembly (Continued)

ITEM	PART NUMBER	DESCRIPTION	DANA PART NO.	QTY.
11	55110	Washer-Pinion Nut	30186	
12	55120	Nut-Pinion	30185	
13	55130	Companion Flange Assembly	2-1-1881X	
14	55140	Cover-Carrier	*	
15	55150	Gasket-Carrier Cover	34685	
16	55160	Plug-Cover	36472	
17	55170	Bolt-Carrier Cover	34279	
18	55180	Cap-Differential Bearing	**	
19	55190	Bolt-Differential Bearing Cap	500400-20	
20	55200	Kit-Differential Bearing	706032X	
21	55210	Shim-Differential Bearing	*	
22	55220	Case-Differential	*	
23	55230	Bolt-Drive Gear	30187	
24	55240	Pinion-Differential	*	
25	55250	Gear-Differential	*	
26	55260	Thrust Washer-Differential Pinion	*	
27	55270	Thrust Washer-Differential Gear	*	
28	55280	Shaft-Differential	*	
29	55290	Lock-Differential Shaft	13449	
30	55300	Bolt-Break Mounting	34616-1	
31	55310	Nut-Brake Mounting	35704	
32	55320	Seal-Shaft Inboard	34419	
33	55330	Ring-Wheel Bearing Retaining	32755	
34	55340	Bearing Assembly	565903	
35	55350	Seal-Shaft Outboard	35239	
36	55360	Retainer-Oil Seal	35490	
37	55370	Shaft-Axle Flanged	*	
38	55380	Bolt-Wheel	35491	
LIMITED SLIP DIFFERENTIAL ON SER #9975236 & UP				
40	55400	Gear-Differential	*	
41	55410	Shaft-Differential	*	
42	55420	Ring-Snap	*	
43	55430	Spacer-Differential Gear (Dished)	*	
44	55440	Plate-Differential	*	
45	55450	Disc-Differential	*	
46	55460	Plate-Differential (Selective Thickness)	*	
47	55470	Clip-Differential Clutch Retainer	*	

Components

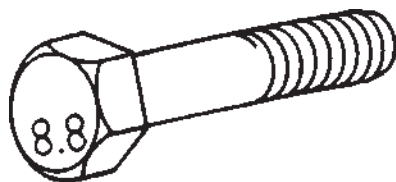
General Tightening Torque for Bolts, Nuts and Taperlock Studs

The following charts give the standard torque values for bolts, nuts and taperlock studs for SAE Grade 5 or better quality.

Use these torques for bolts and nuts with standard threads (conversions are approximate).	Thread Size	Standard Torque	
	Inches	Lb. Ft.	N·m*
 <p>standard thread</p>	1/4	9 ± 3	12 ± 4
	5/16	18 ± 5	25 ± 7
	3/8	32 ± 5	45 ± 7
	7/16	50 ± 10	70 ± 15
	1/2	75 ± 10	100 ± 15
	9/16	110 ± 15	150 ± 20
	5/8	150 ± 20	200 ± 25
	3/4	265 ± 35	360 ± 50
	7/8	420 ± 60	570 ± 80
	1	640 ± 80	875 ± 100
	1-1/8	800 ± 100	1100 ± 150
	1-1/4	1000 ± 120	1350 ± 175
	1-3/8	1200 ± 150	1600 ± 200
	1-1/2	1500 ± 200	2000 ± 275

*1 newton meter (N·m) is approximately the same as 0.1 mkg.

Metric Fasteners



[Usually, material strength identification on bolt head is with number (i.e., 8.8, 10.9, etc.)]

The chart on the right gives the torque for bolts and nuts with Grade 8.8.

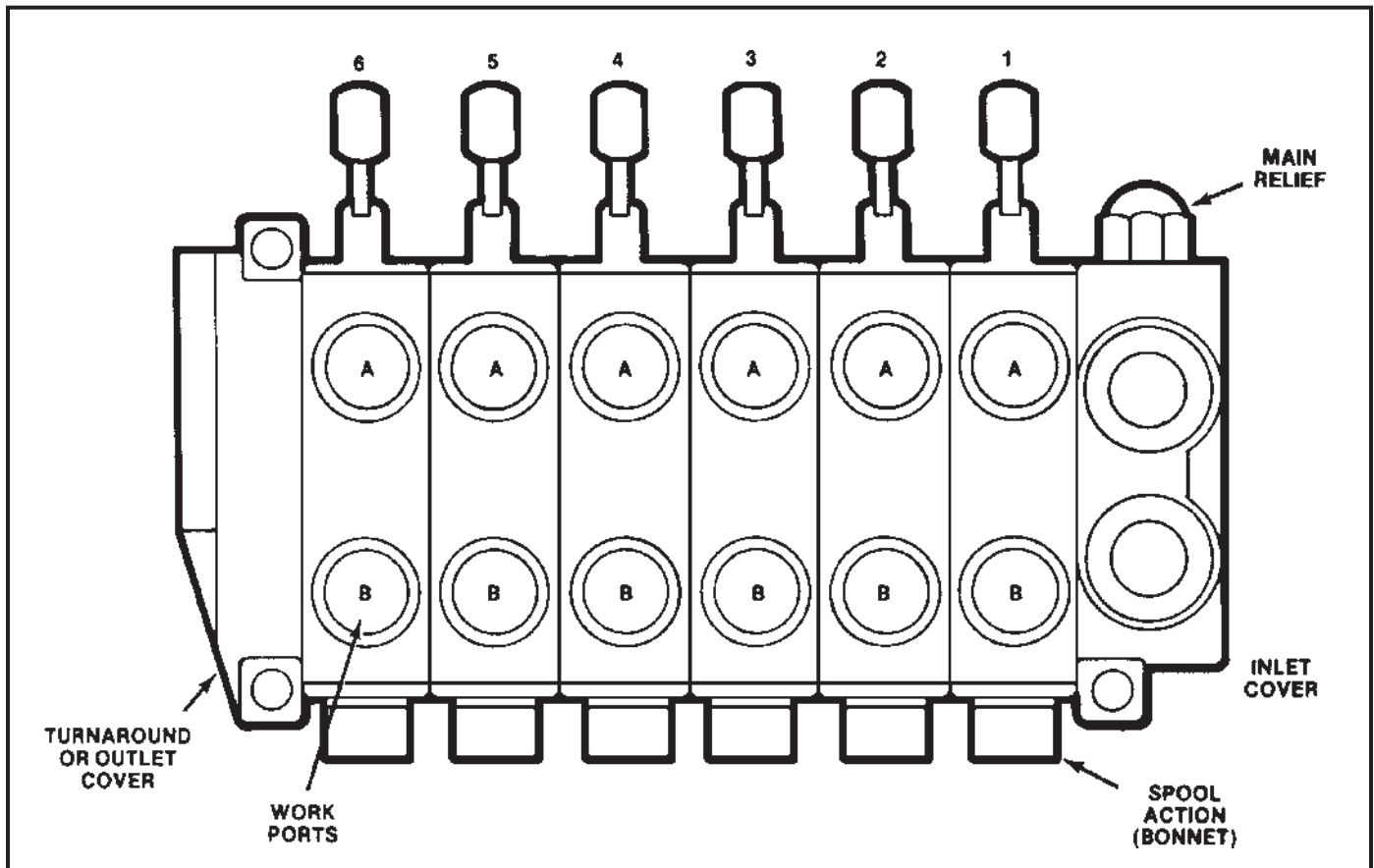
NOTICE: Caution must be taken to avoid mixing metric and standard (customary) fasteners. Mismatched or incorrect fasteners can result in vehicle damage or malfunction, or possible personal injury. Original fasteners removed from the vehicle should be saved for assembly when possible. If new ones are required, caution must be taken to replace with one that is of same part no. and grade or better.

Thread Size	Metric ISO Thread	
	Torque	
	(mm)	(N·m*)
M6	12 ± 4	9 ± 3
M8	25 ± 7	18 ± 5
M10	55 ± 10	40 ± 7
M12	95 ± 15	70 ± 10
M14	150 ± 20	110 ± 15
M16	220 ± 30	160 ± 20
M18	325 ± 50	240 ± 35
M20	450 ± 70	330 ± 50
M22	600 ± 90	440 ± 65
M24	775 ± 100	570 ± 75
M27	1150 ± 150	840 ± 110
M30	1610 ± 200	1175 ± 150
M33	2000 ± 275	1450 ± 200
M36	2700 ± 400	2000 ± 300

ISO - International Standard Organization

*1 newton meter (N·m) is approximately the same as 0.1 mkg.

Schematic-View of Typical Control Valve Assembly



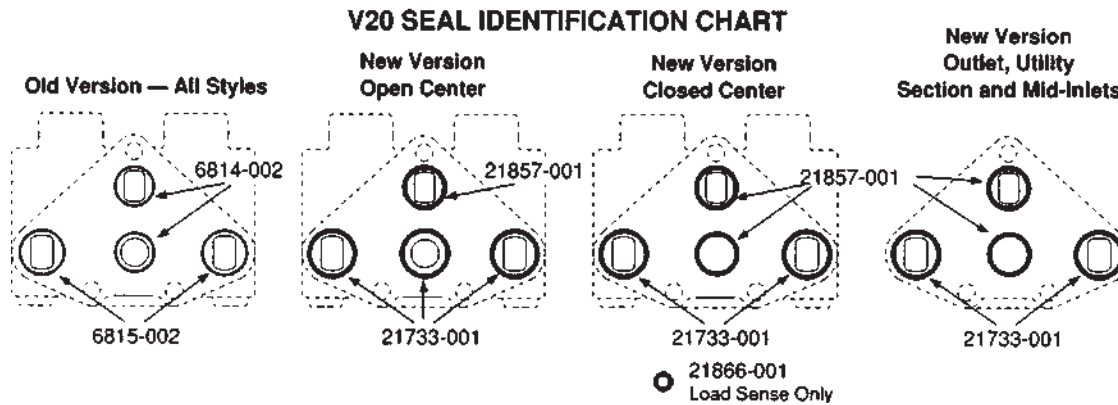
1. Before disassembly, it is suggested that each valve section be marked numerically to avoid incorrect reassembly.
2. Remove three assembly stud nuts from the left end section using a $\frac{9}{16}$ " thin wall socket.
3. Remove valve sections by sliding from assembly studs.

Parts Ordering Information

As of April 1, 1991, the section seals for the V20 changed. The new versions have larger cross section (old was .070, new is .103) and different configurations for open center and closed center sections. The old design utilized the same seals for all versions (two .801 I.D. and two .926 I.D.). The new design uses one configuration for open center (three .924 I.D. and one .799 I.D.) and another configuration

for closed center, load sensing and all outlet covers (two .924 I.D. and two .799 I.D., with one .237 I.D. for load sensing).

The following charts is provided to aid in selection of the proper seals. It is important to note that the seal kits include all O-rings (new and Old), therefore there will be some left unused.



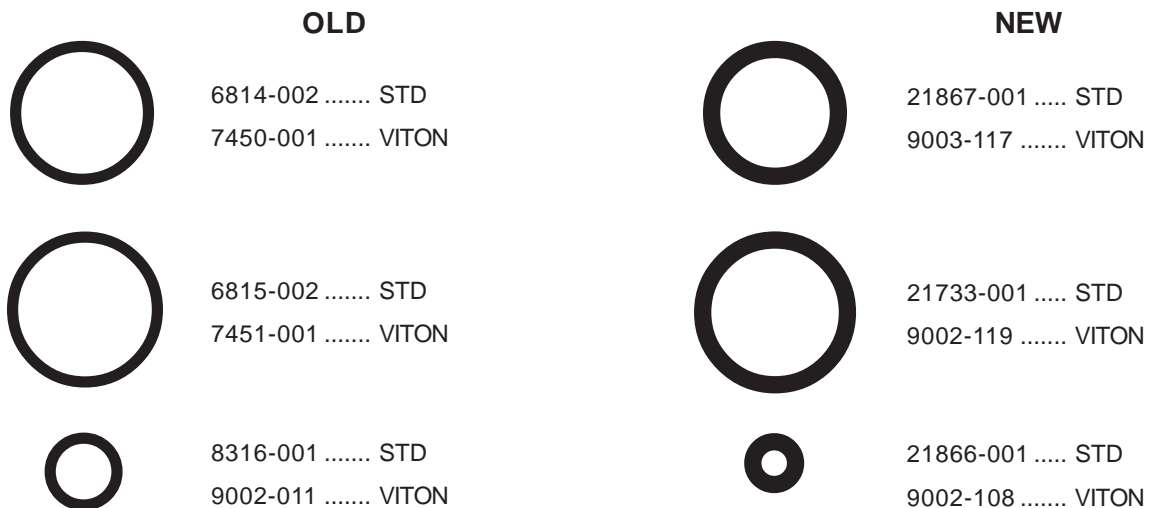
The following section seals are included in the Kits:

Standard Kits		Viton Kits	
Old	New	Old	New
(2)6814-002	(2)21867-001	(2)7450-001	(2)9003-117
(2)6815-002	(3)21733-001	(2)7451-001	(3)9002-119
Load sensing kits (additional seals)			
(1)8316-001	(1)21866-001	(1)9002-011	(1)9002-108

Seal kit changes.

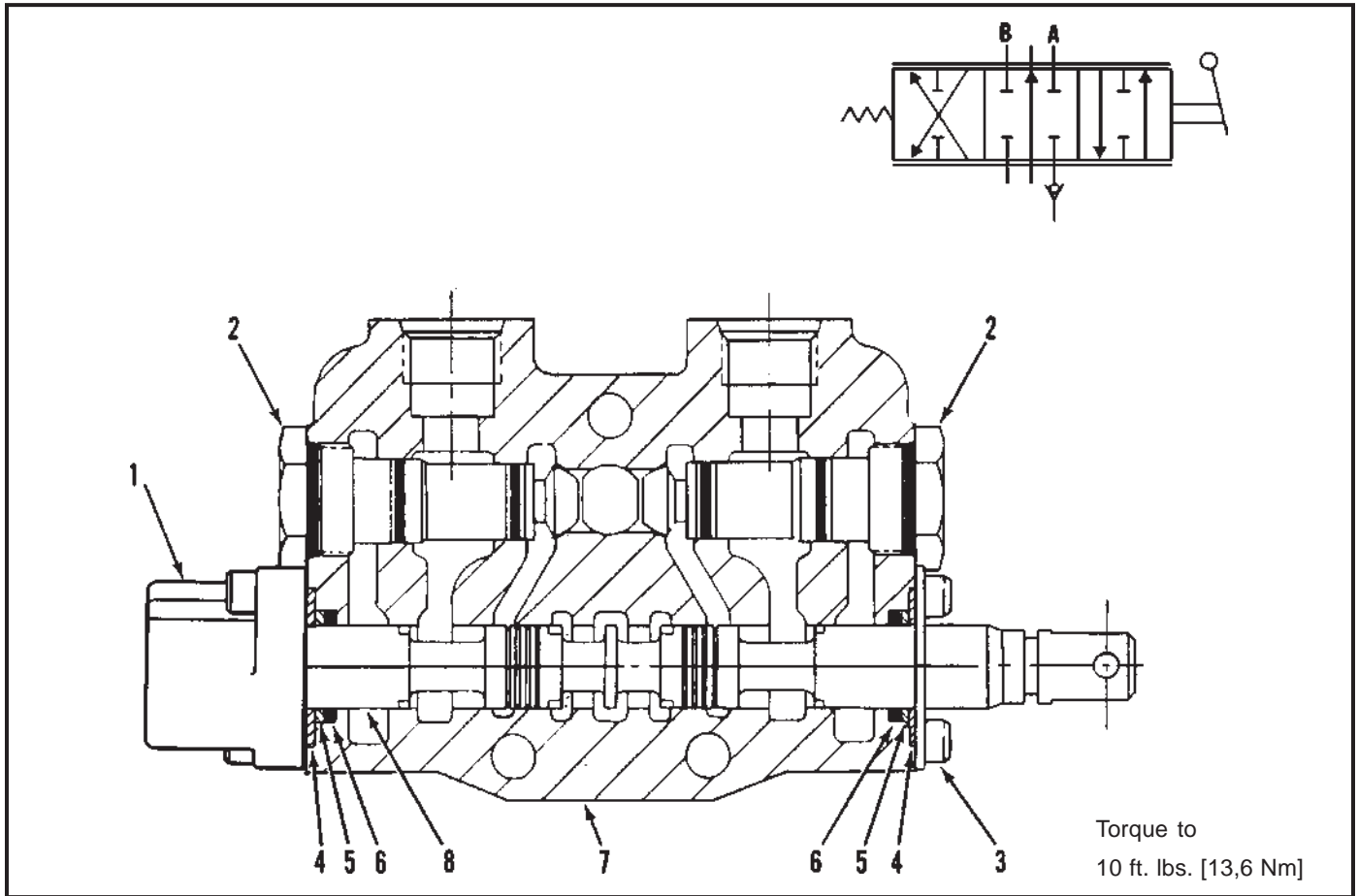
- K-6121 Section Seal Kit, One Section
- K-6027 Complete Seal Kit, 3 or 4 Way Section
- K-6028 Complete Seal Kit, 4 Way Float Section
- K-6209 Complete Seal Kit, Series 3 or 4 Way Section
- K-6210 Complete Seal Kit, Series 4 Way Float Section
- K-6154 Complete Seal Kit, Load Sensing 4 Way Float
- K-6155 Complete Seal Kit, Load Sensing 3 or 4 Way Section
- K-6156 Section Seal Kit, Load Sensing-One Section
- K-6160 Viton Section Seal Kit, One Section

*Complete Seal Kits include spool seals and O-rings for check plugs.



THESE SEALS ARE NOT INTERCHANGEABLE. OLD AND NEW STYLE SECTIONS MAY BE USED IN THE SAME ASSEMBLY PROVIDED THE CORRECT SEALS ARE USED FOR EACH SECTION.

4-Way, 3-Position Valve Section



ITEM NO.	DESCRIPTION	QUANTITY PER SECTION	
1	POSITIONER, Spool, Standard	1	
2	CHECK, Load	2	
3	RETAINER ASSEMBLY, Standard, Includes Screws	1	
4	RETAINER, Plate Washer	2	
5	WASHER, Back-Up	} See Note 1	2
6	SEAL, O-Ring		2
7	HOUSING, Standard	} See Note 1	1
8	SPOOL, 4-Way		1

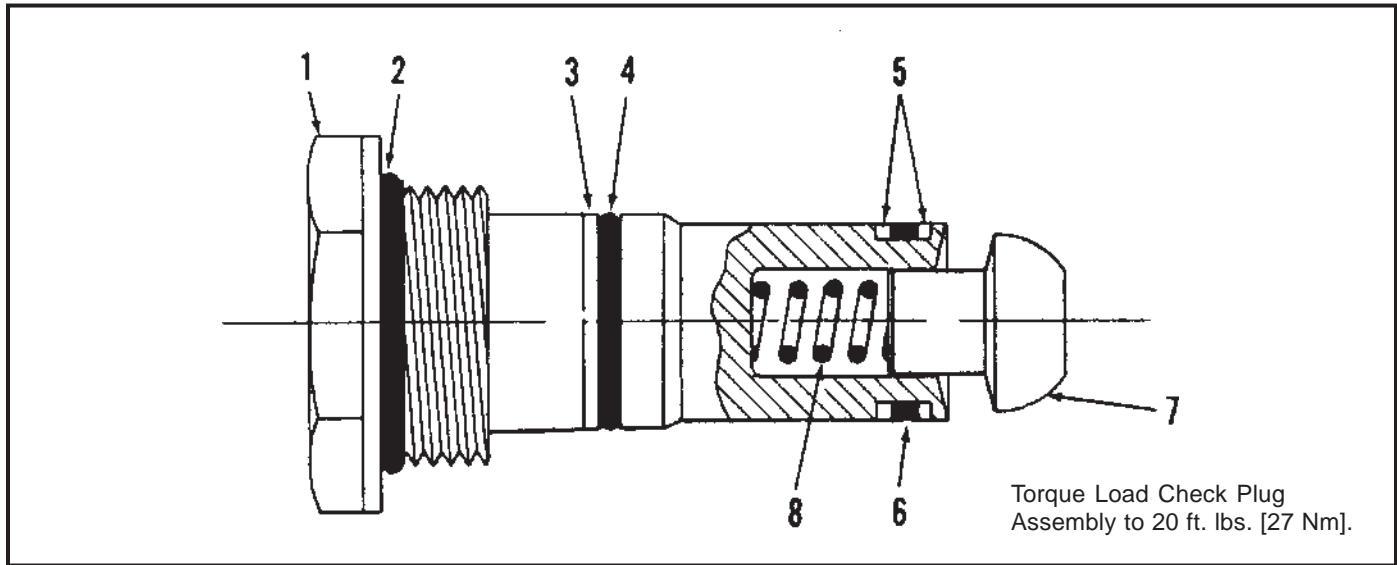
Notes:

1. Seal and washer not sold separately. Order Seal Kit.
2. These are matched parts and are not sold separately.

Buna-N seals are standard for all Gresen valve assemblies. Optional Viton seals are available.

Components

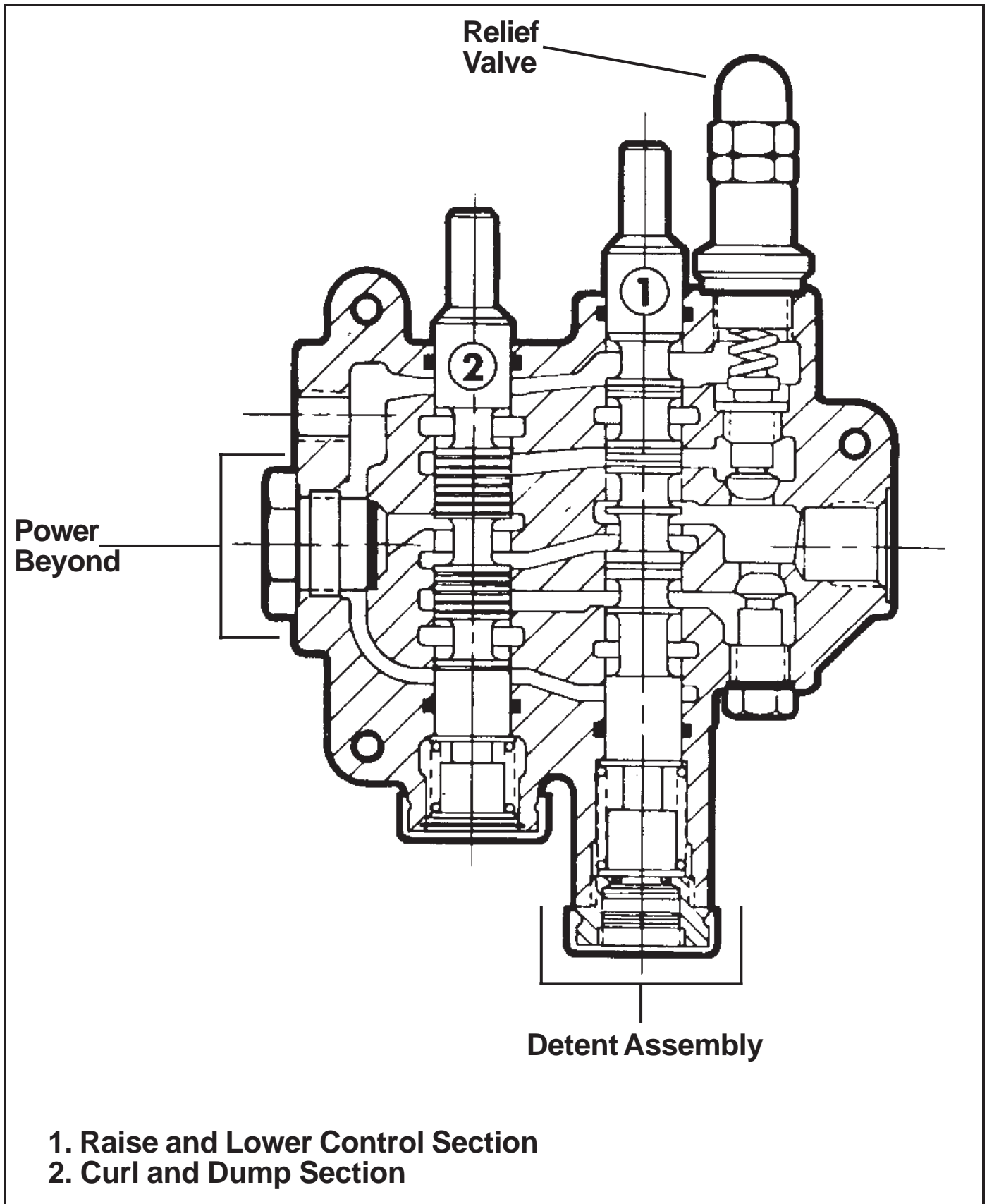
Load Check Plug Assembly



ITEM NO.	DESCRIPTION	QUANTITY PER PLUG ASSEMBLY
	REPLACEMENT LOAD CHECK PLUG ASSEMBLY	
	SEAL KIT, (Contains items 2, 3, 4, 5 and 6)	
1	PLUG, Lift Check, Steel (Heavy Duty)	1
2	SEAL, O-Ring	1
3	WASHER, Back-Up, Outer	1
4	SEAL, O-Ring, Outer	1
5	WASHER, Back-Up, Inner	2
6	SEAL, O-Ring	1
7	POPPET, Lift Check	1
8	SPRING, Lift Check	1

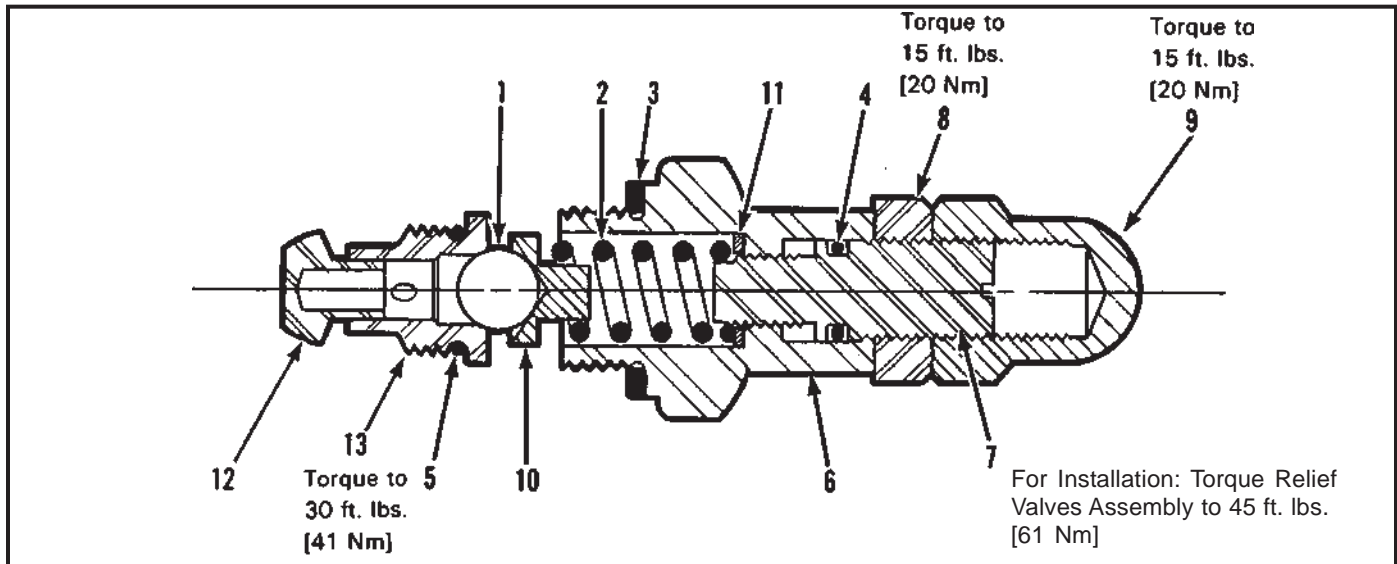
} Not Sold Separately

SPK Monoblock Valve



Components

Model J-HP High Pressure Relief



ITEM NO.	DESCRIPTION	QUANTITY PER PLUG ASSEMBLY	
1	BALL	1	
2	SPRING, Relief (Model SP only)	1	
	SPRING, Relief (Models SPK and SSK only)	1	
3	GASKET, Relief Body	} Not Sold Separately	1
4	O-RING, Adjusting Screw		1
5	O-RING, Valve Seat		1
6	BODY	1	
7	SCREW, Adjusting	1	
8	NUT, Jam, Adjusting Screw	1	
9	NUT, Acorn Cap	1	
10	GUIDE, Spring	1	
11	WASHER, Spacer (SP)	1	
	WASHER, Spacer (SPK)	2	
12	POPPET, Check	1	
13	SEAT, Valve	1	

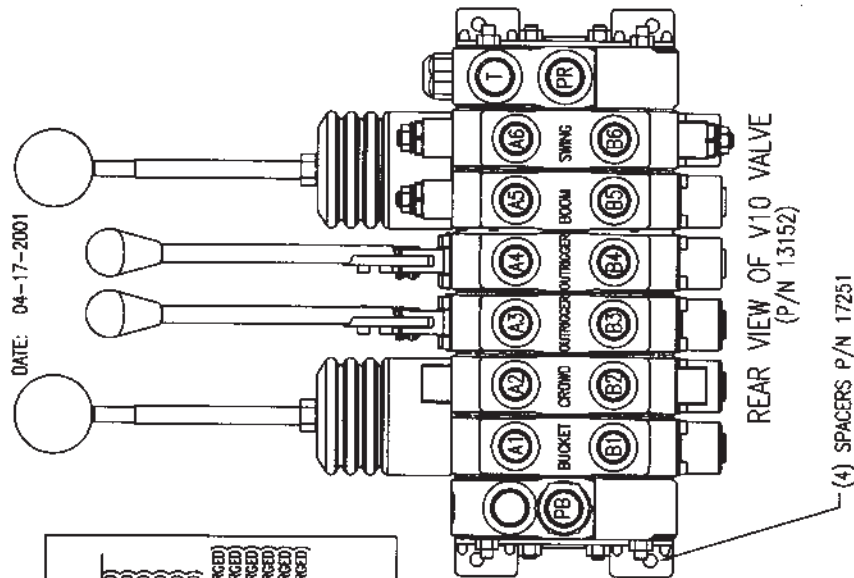
Hose and Fitting Location for V10 Valve (180 Swing)

V10 GRESSEN VALVE T9 HOSES (REAR HOSE KIT 80187)	
PORT	HOSE DESCRIPTION
A1	1/4 HOSE 143" #6 JIC FM STR SW (BOTH ENDS)
A2	3/8 HOSE 95" #6 JIC FM STR SW (BOTH ENDS)
A3	1/4 HOSE 48" #4 JIC FM STR SW (BOTH ENDS)
A4	1/4 HOSE 48" #4 JIC FM STR SW (BOTH ENDS)
A5	3/8 HOSE 67" #6 JIC FM STR SW (BOTH ENDS)
A6	1/4 HOSE 25" #6 JIC FM STR SW TO #4 JIC FM 90DEG
B1	1/4 HOSE 124" #6 JIC FM STR SW (BOTH ENDS)
B2	3/8 HOSE 53" #6 JIC FM STR SW (BOTH ENDS)
B3	1/4 HOSE 38" 3/8MP X #6 JIC FM STR SW
B4	1/4 HOSE 38" 3/8MP X #6 JIC FM STR SW
B5	3/8 HOSE 70" #6 JIC FM STR SW (BOTH ENDS)
B6	1/4 HOSE 24" #6 JIC FM STR SW TO #4 JIC FM 90DEG

SWING CYLINDER CROSS-OVER HOSES:
(2) P/N 80196 1/4" X #6FM SW JIC X #6 FM SW JIC 90D BEND

HOSE KITS

- T9 FRONT ARM HOSE KIT P/N 80181
- T9 2WD CENTER HOSE KIT P/N 80207
- T9 4WD CENTER HOSE KIT P/N 80209

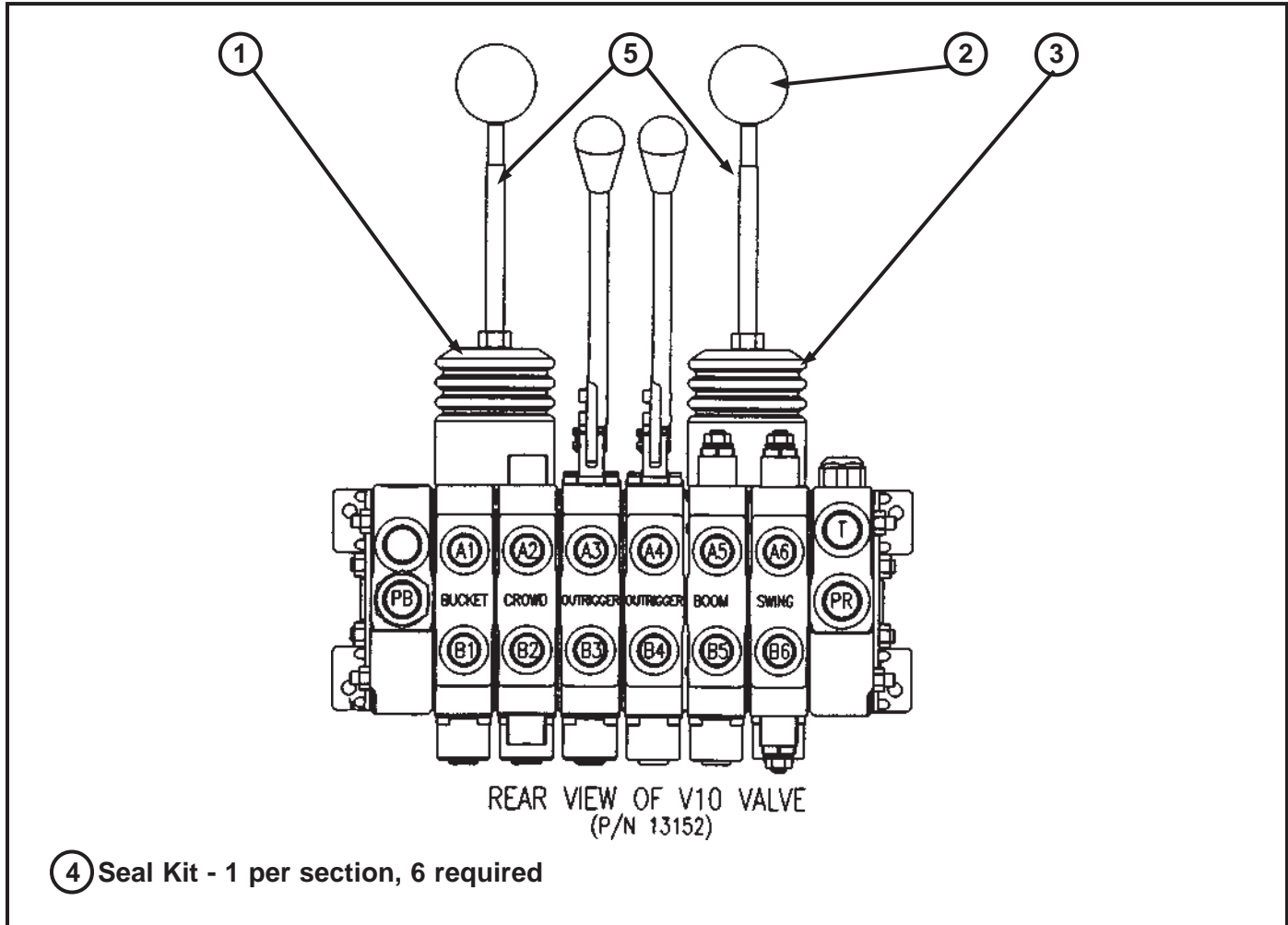


V10 GRESSEN VALVE T7 & T9 FITTINGS	
PORT	FITTING DESCRIPTION
A1	#8 O-RING X #6 JIC30 LONG (FORGED)
A2	#8 O-RING X #6 JIC30 LONG (FORGED)
A3	#8 O-RING X #6 JIC30 LONG (FORGED)
A4	#8 O-RING X #6 JIC30 LONG (FORGED)
A5	#8 O-RING X #6 JIC30 LONG (FORGED)
A6	#8 O-RING X #6 JIC30 LONG (FORGED)
B1	#8MS O-RING X #6 JIC30 SHORT (FORGED)
B2	#8MS O-RING X #6 JIC30 SHORT (FORGED)
B3	#8MS O-RING X #6 JIC30 SHORT (FORGED)
B4	#8MS O-RING X #6 JIC30 SHORT (FORGED)
B5	#8MS O-RING X #6 JIC30 SHORT (FORGED)
B6	#8MS O-RING X #6 JIC30 SHORT (FORGED)
PB	#10 O-RING X #6 JIC30
T	#10MS O-RING X 1/2FM PIPE
T	#8 JIC30 X 1/2MP
PR	#10MS O-RING X #6 JIC30

T9 180 SWING FITTINGS ASSEMBLED ON CYLINDERS	
CYLINDER	BARREL END FITTING P/N
SWING	20030
SWING	20030
OUTRIG	NONE
BOOM	20178
BOOM	20178
REAR CUR	20178
REAR CUR	20178
20178	3/8MP X #6M JIC STR FITTING
20189	1/4MP X #6M JIC STR FITTING
20190	#6 O-RING TEE #6M JIC FITTING
20030	#6 O-RING X #6M JIC FITTING

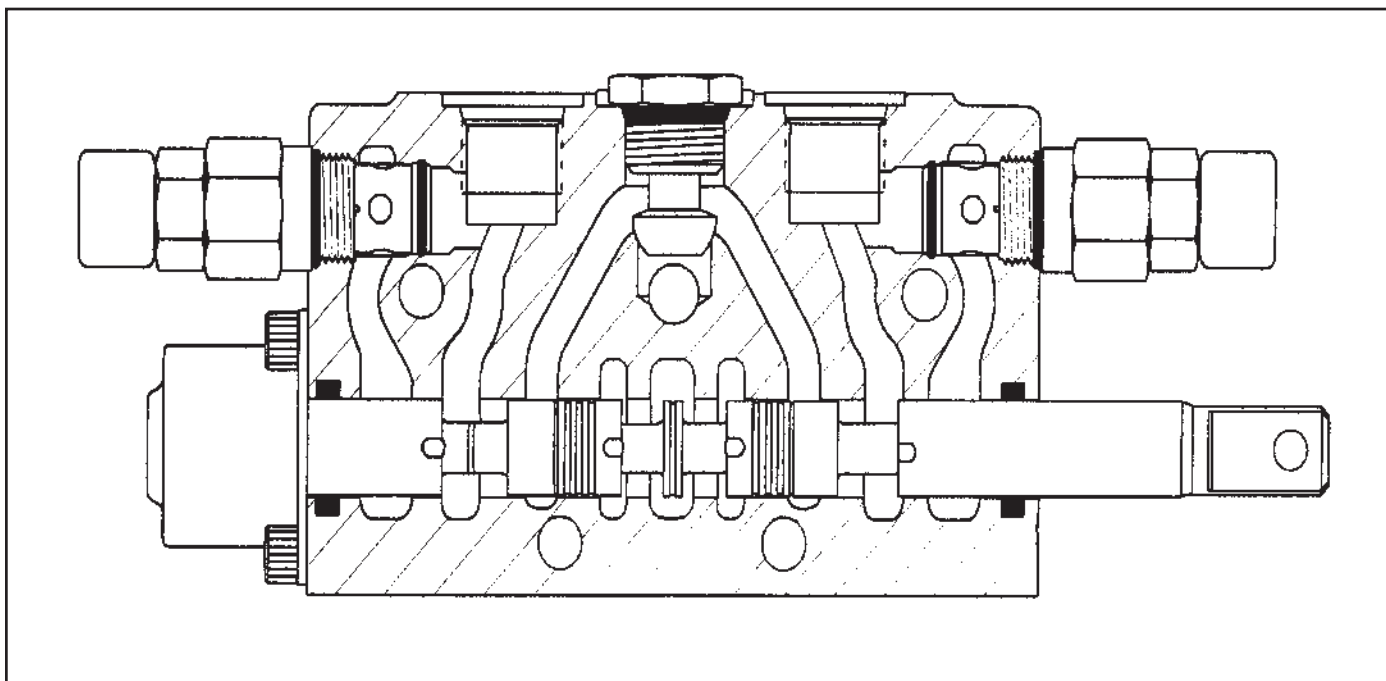
Components

View from Operators Position for V10 Valve (180 Swing)

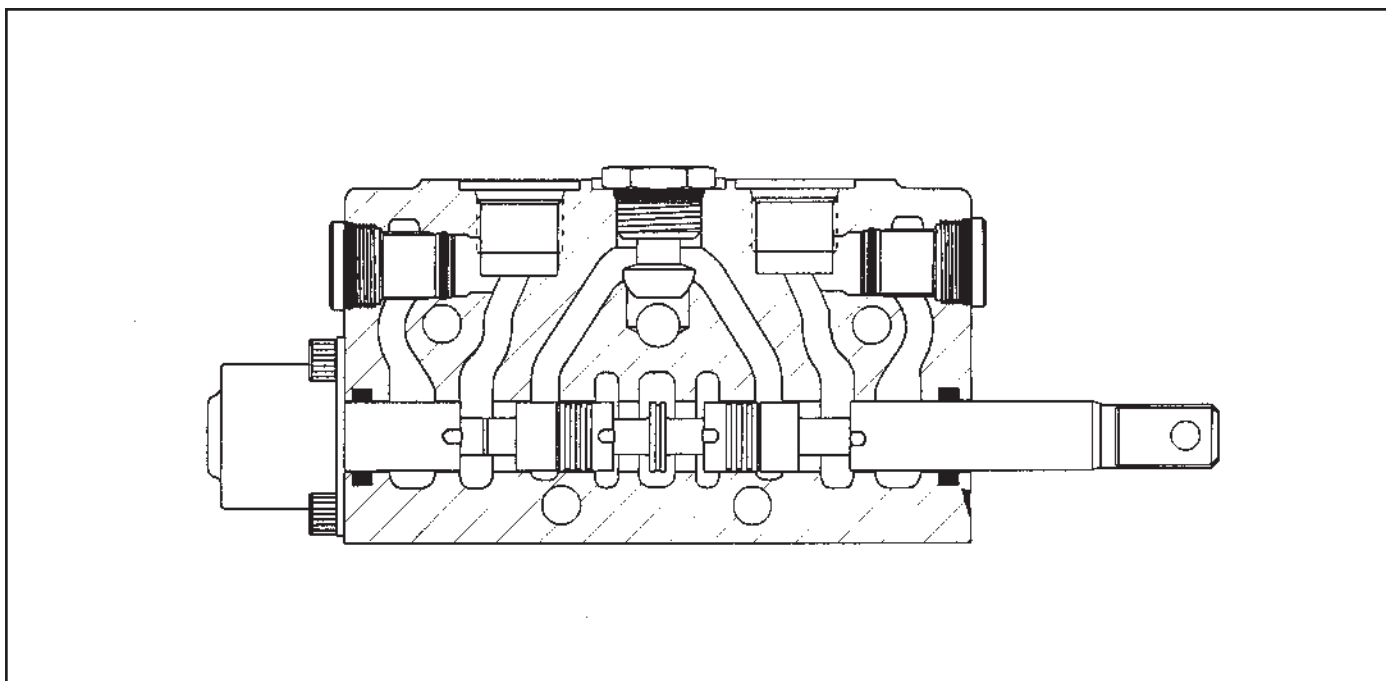


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	84046	Kit, Pivot Sect. Wobblestick, RH, V10-1294	1
2	13942	Knob, Red Wobblestick Handle, Valve, T5C/T5D/T6/T7/T9	1
3	84047	Kit, Pivot Sect. Wobblestick, LH v10-1294	1
4	85107	Kit, Section Seal, V10-1294	1
5	84045	Handle Wobblestick L & R	1

Valve Section Service Kits V-10

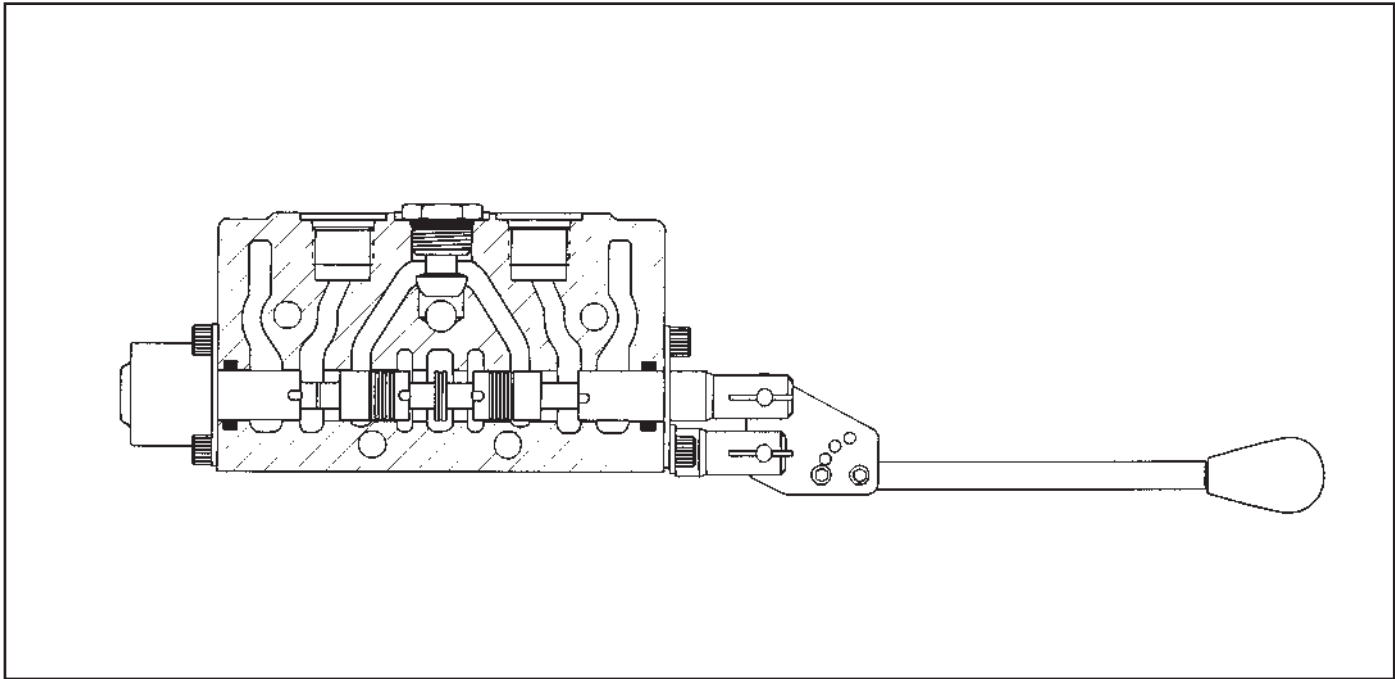


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85111	Valve Section 1, Work Components V10-1294	1

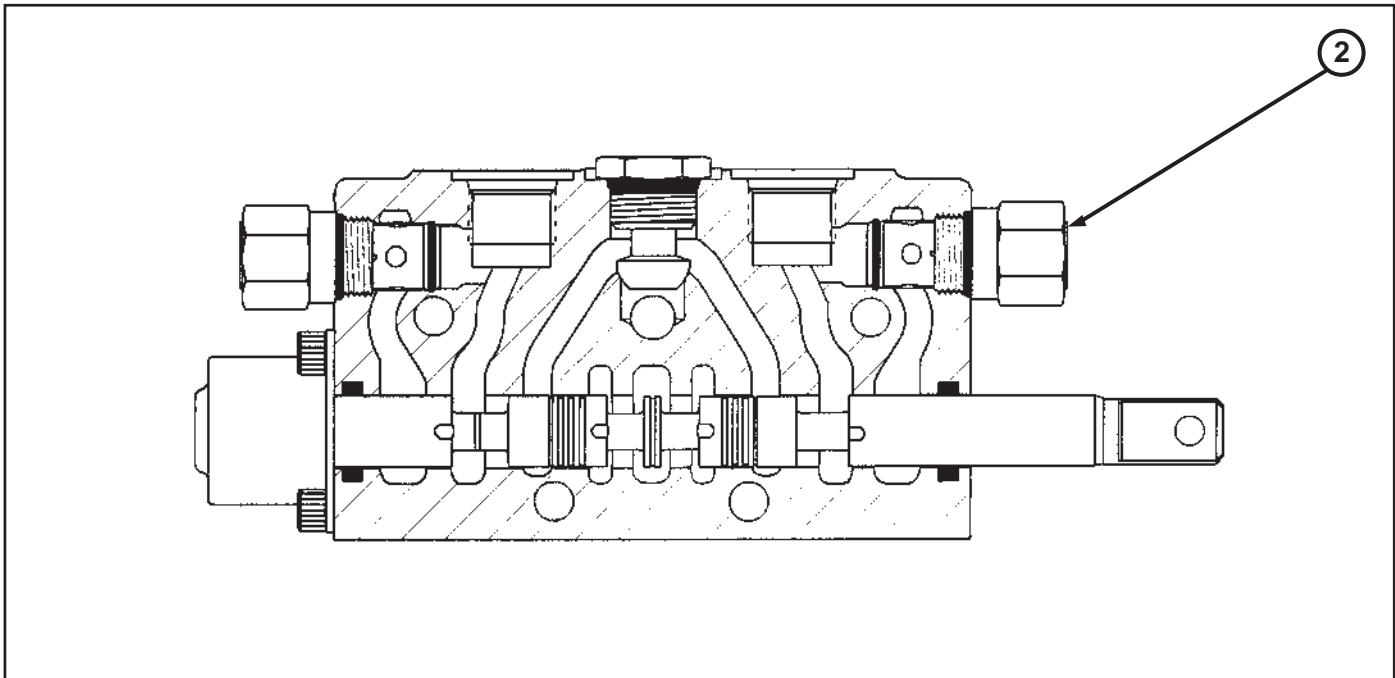


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85112	Valve Section 2, Work Components V10-1294	1

Valve Section Service Kits V-10

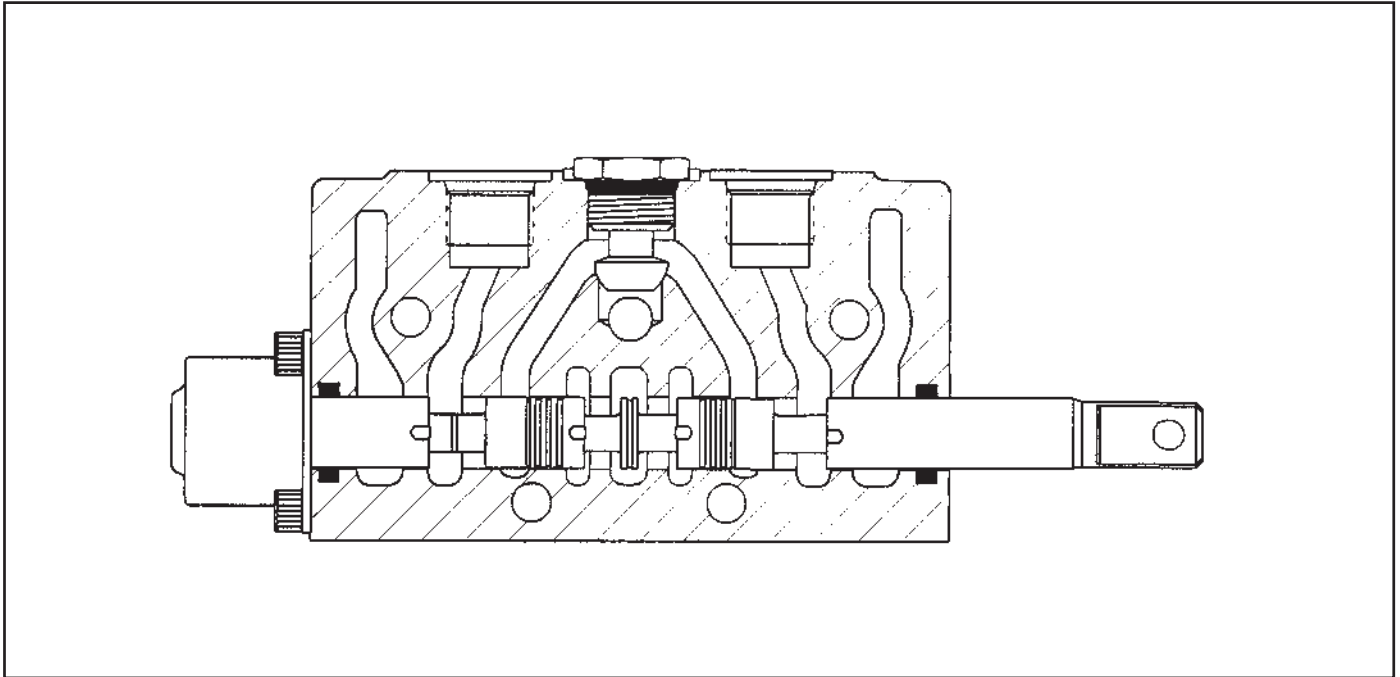


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85113	Valve Section 3&4, Work Components, V10 - 1294	1

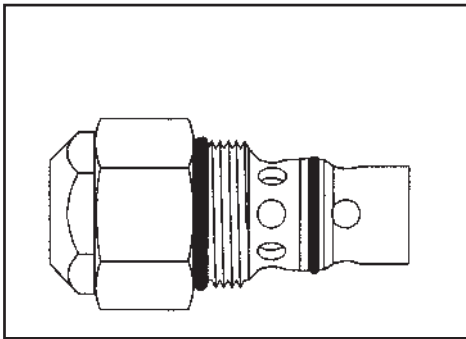


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85114	Valve Section 5, Work Components, V10 - 1294	1
2	85116	Kit, Anti - Cavitation Check Cartridge, V10 - 1294	1

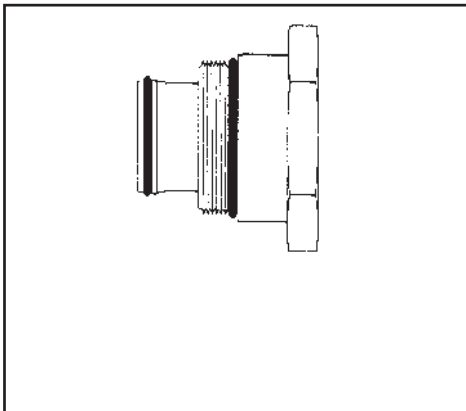
Valve Section Service Kits V-10



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85115	Valve Section 6, Work Components, V10 - 1294	1

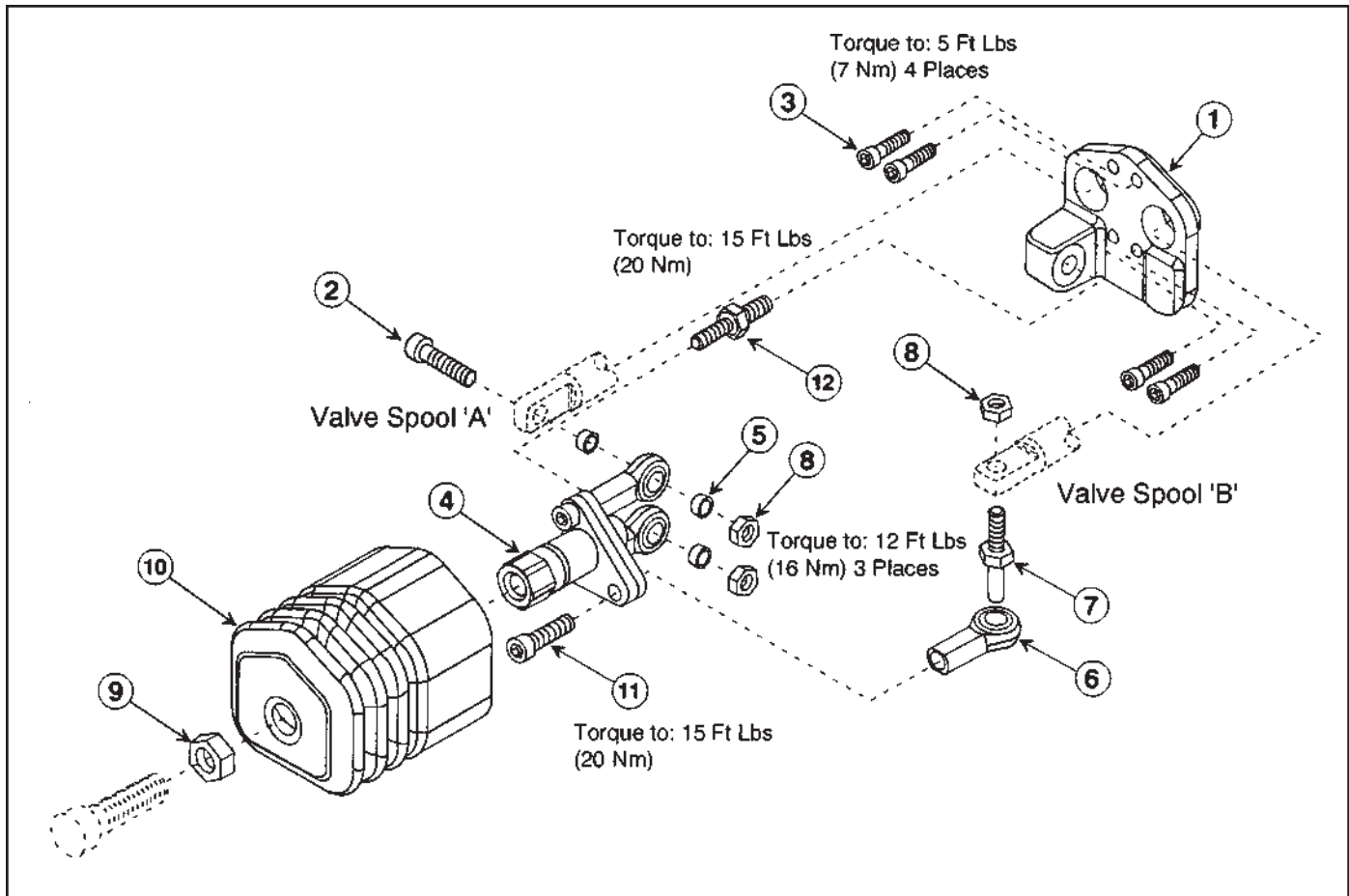


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85106	Kit, Plug Seal, Relief Cartridge, V10 - 1294	1



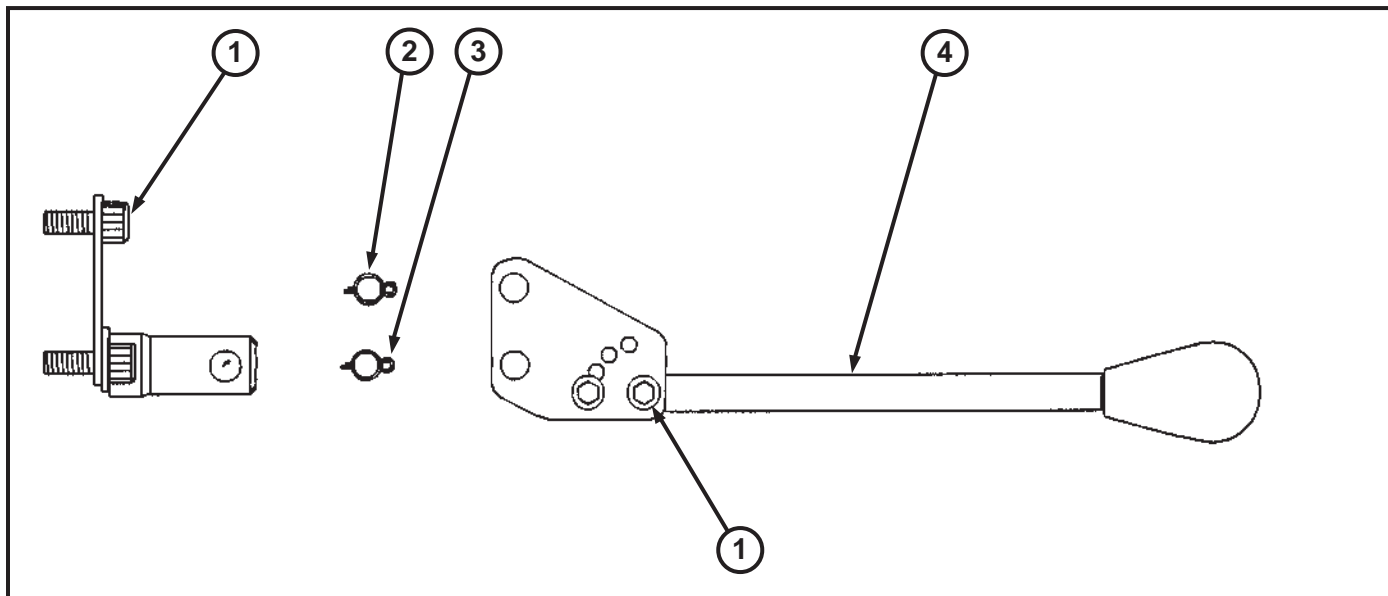
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85123	Kit, Plug Seal, Power Beyond, V10 - 1294	1

Valve Section Service Kits V-10



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85120	Kit, Left, Mechanical Wobblestick Pivot Section, V10-1294	1
2	85121	Kit, Right, Mechanical Wobblestick Pivot Section, V10-1294	1

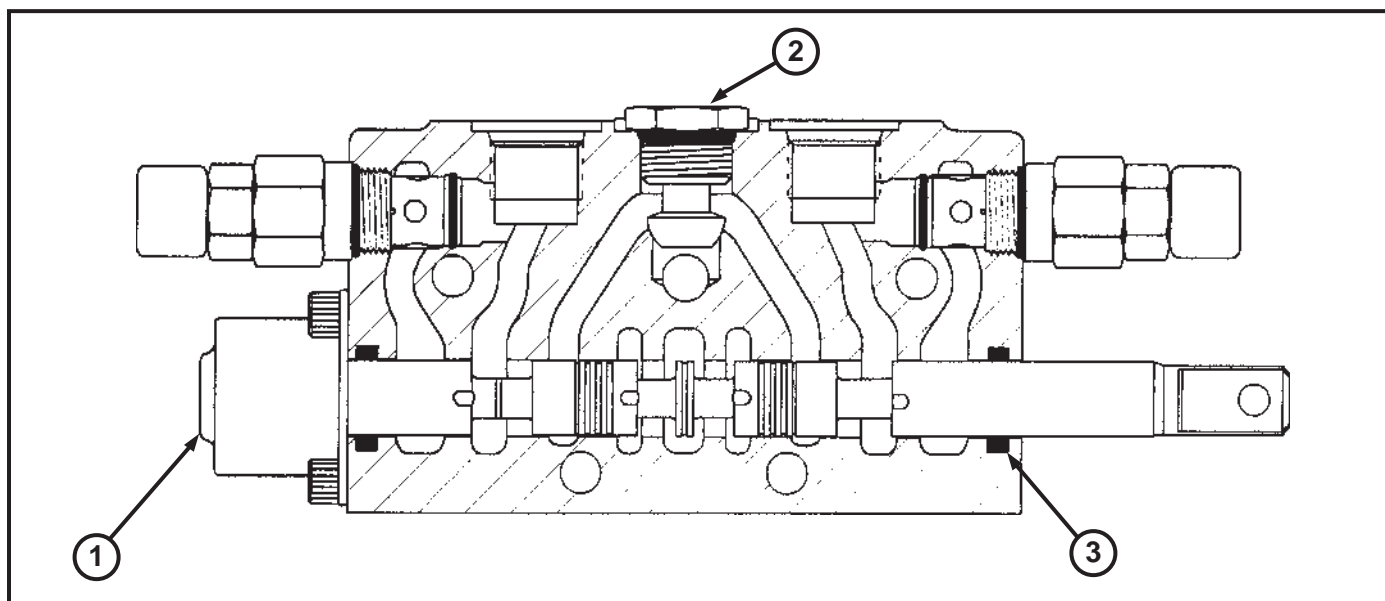
Valve Section Service Kits V-10



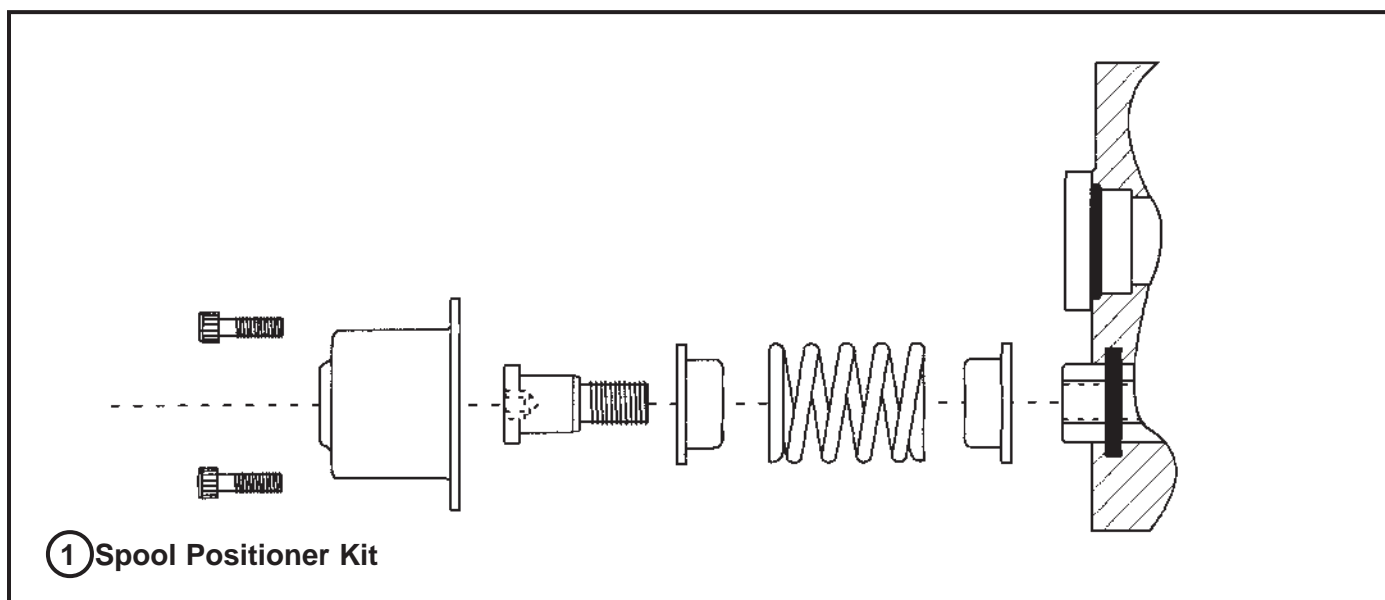
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85119	Screw, Hex Head, V10 - 1294	4
2	85118	Pin, Cotter, V10 - 1294	1
3	85117	Pin, Clevis, V10 - 1294	1
4	85120	Handle, Outrigger/Offset, V10 - 1294	1

Components

Valve Section Service Kits - V10

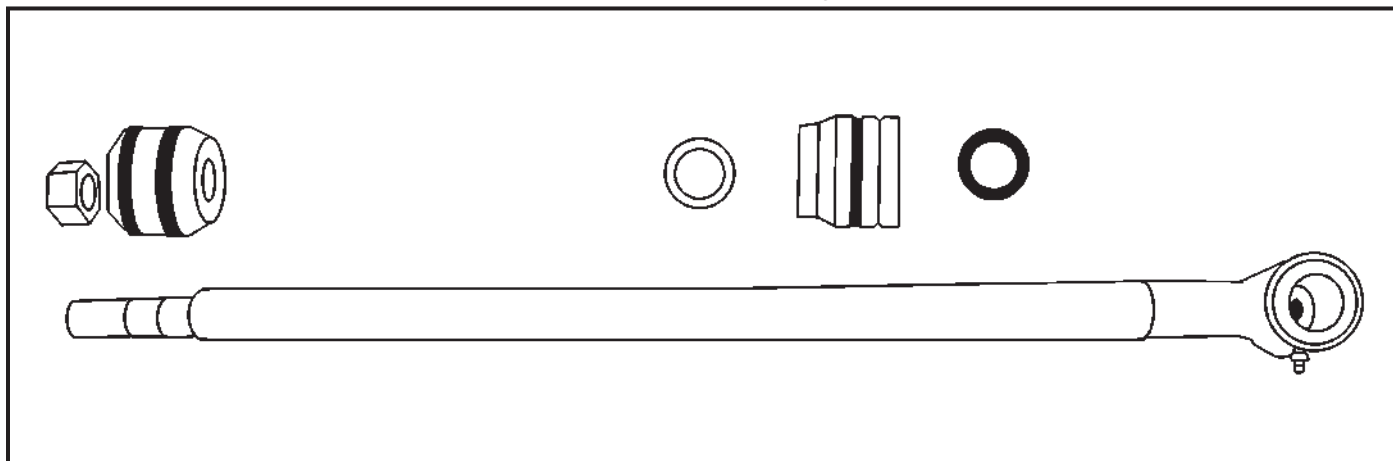


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85108	Kit, Spool Positioner, V10 - 1294 (See Diagram Below)	1
2	85109	Kit, Load Check Plug, V10 - 1294	1
3	85110	Kit, Spool Lip Seal, V10 - 1294	1



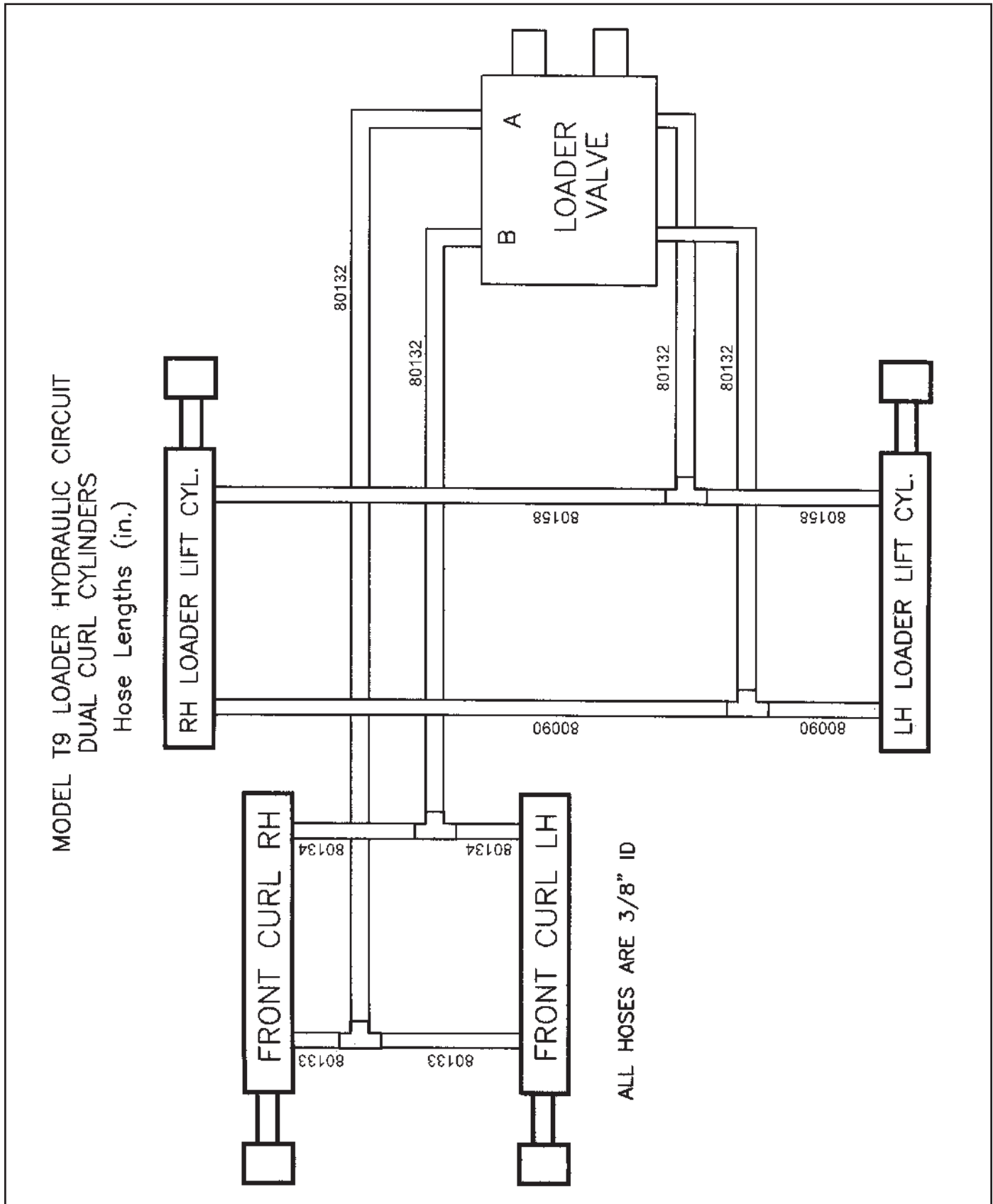
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	85108	Kit, Spool Positioner, V10 - 1294	1

Rod Assembly

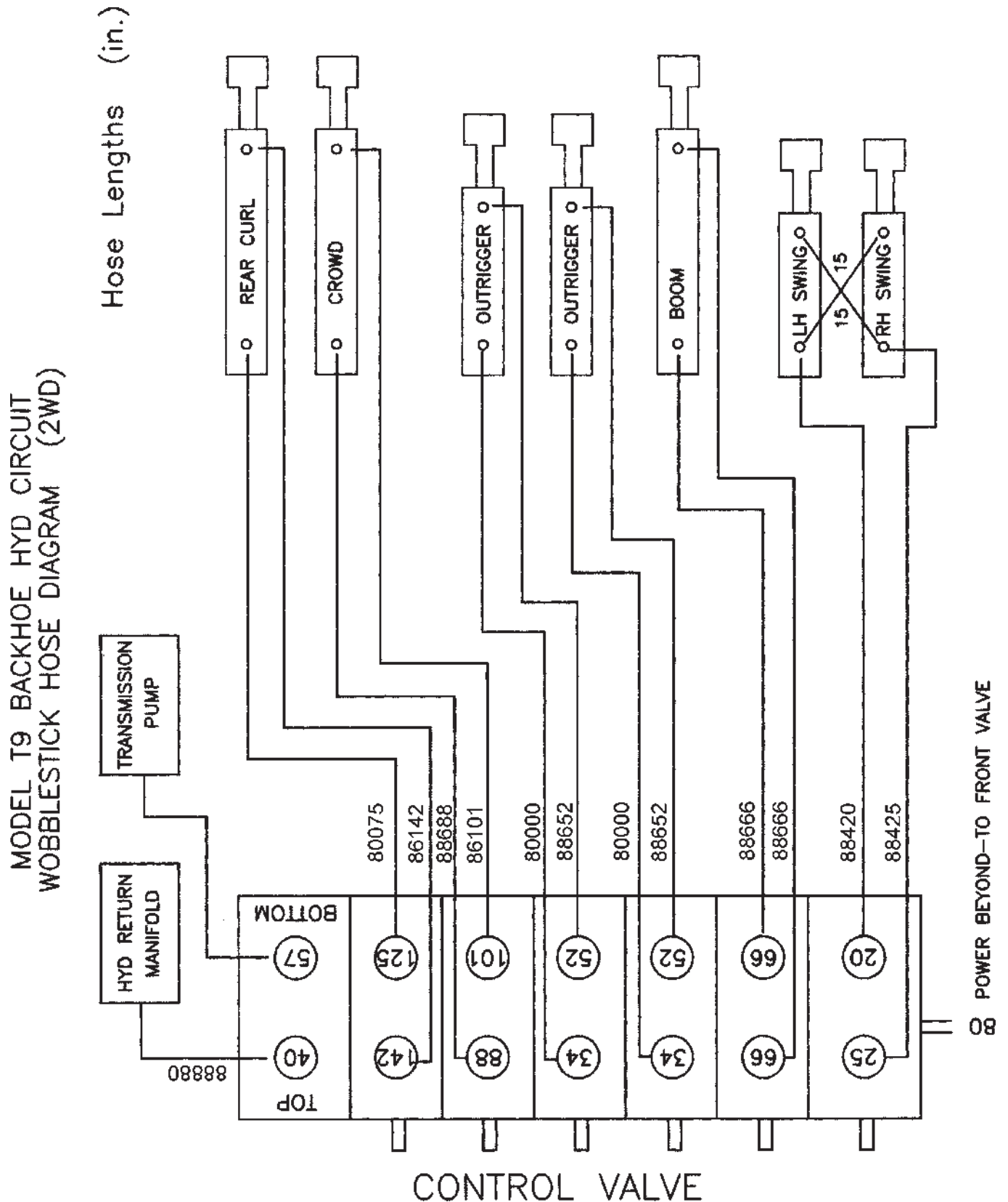


		① ROD PART NUMBER	② BEARING BLOCK PART NUMBER	③ PISTON PART NUMBER	④ SEAL KIT PART NUMBER
	ROD DIAMETER				
Power Steering	1"	25803	22103	21111	21151
Power Steering 4wd	1"	82000	22103	21111	21151
Swing	1"	25201	22103	21111	21151
Arm	1 1/4"	81148	82058	23110	21525
Front Curl	1 1/8"	82073	22203	21111	21125
Rear Curl	1 1/4"	23016	82058	23110	21525
Outrigger	1 1/4"	81095	82058	23110	21525
Boom Lift	1 1/2"		82137	81237	Fisher 81196
Crowd	1 1/2"		82137	81237	Fisher 81196

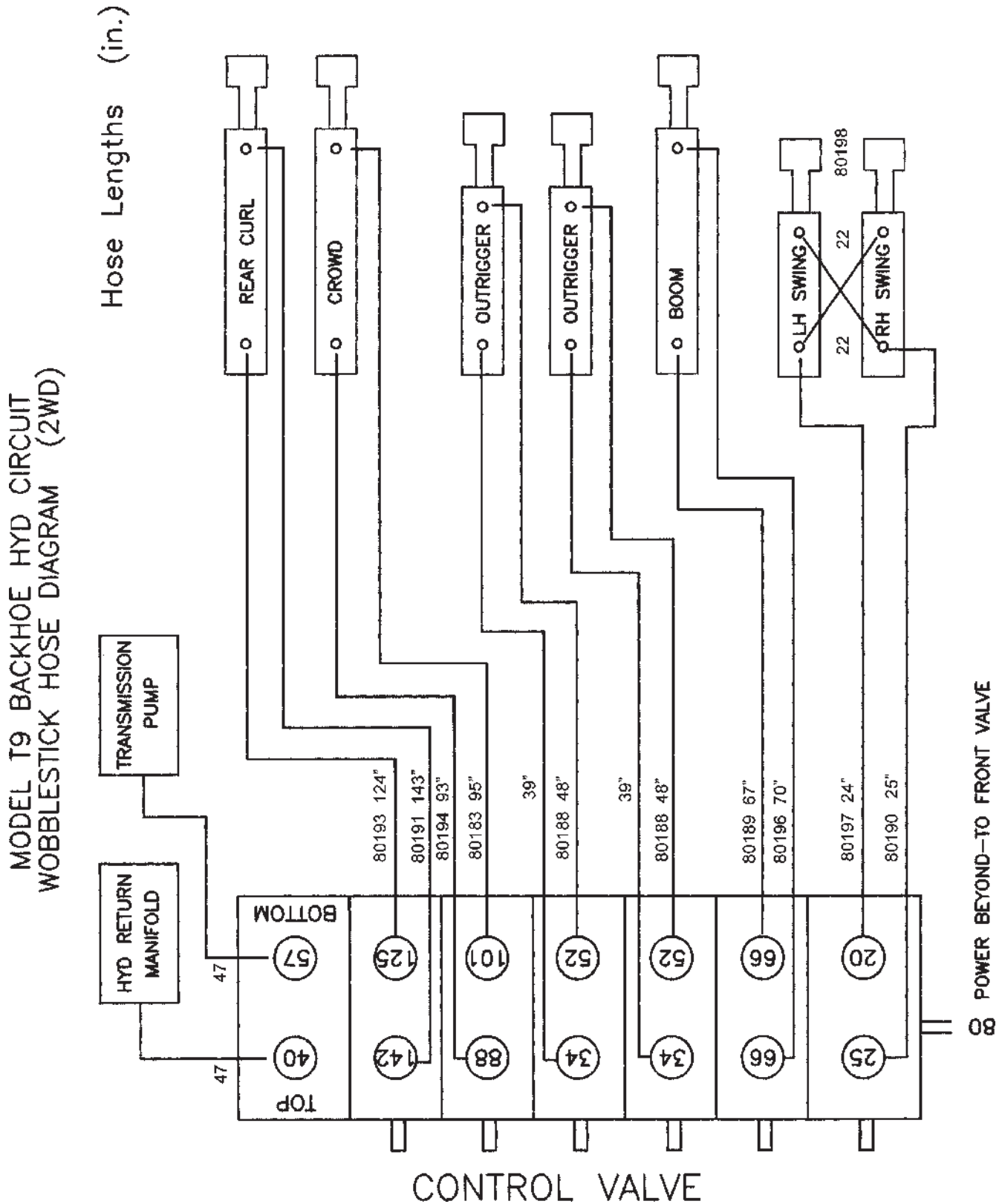
T9 Hydraulic Cylinder Diagram



T9 - Rear Boom Hose Diagram V20

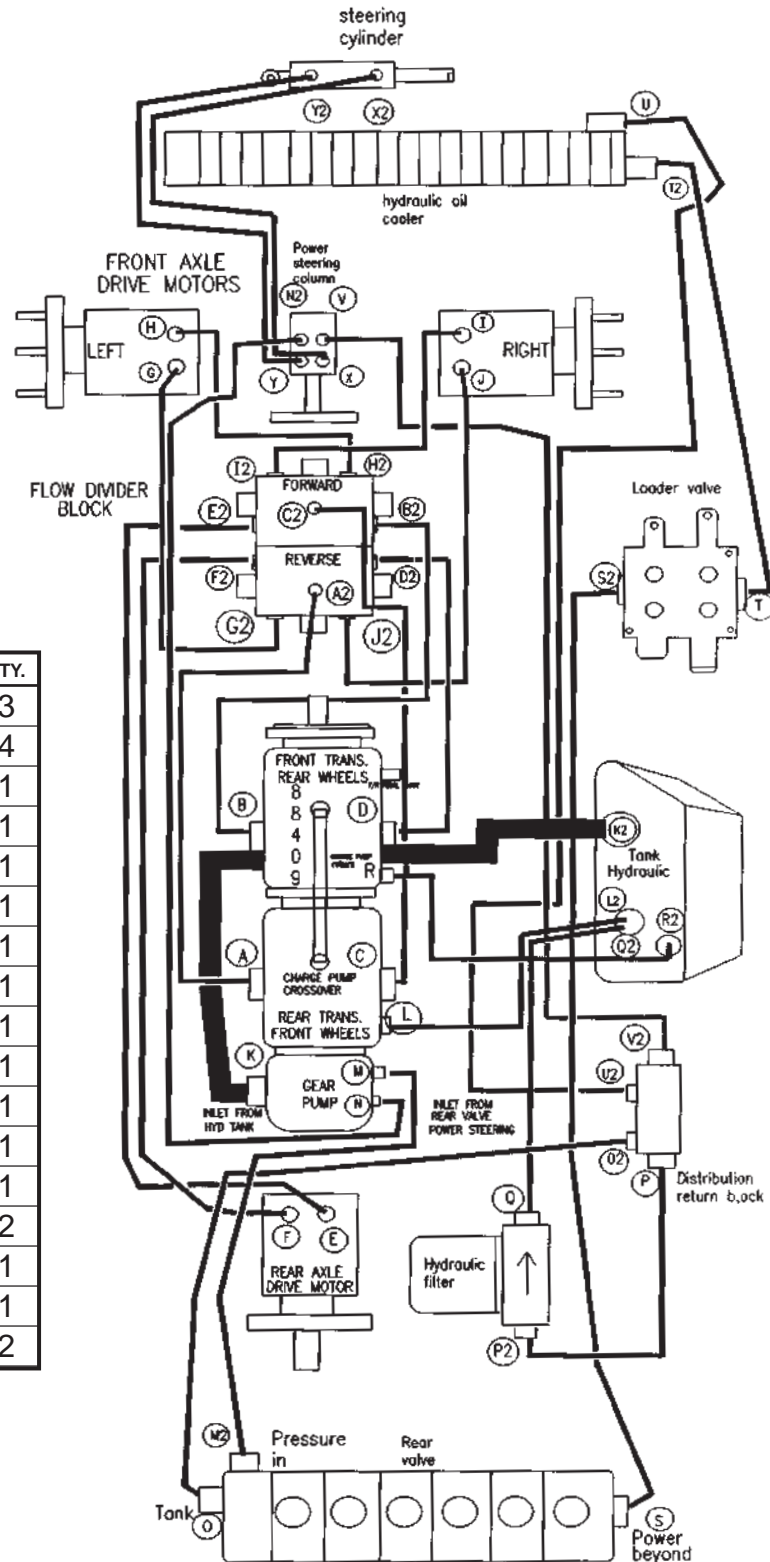


T9 - Rear Boom Hose Diagram V10

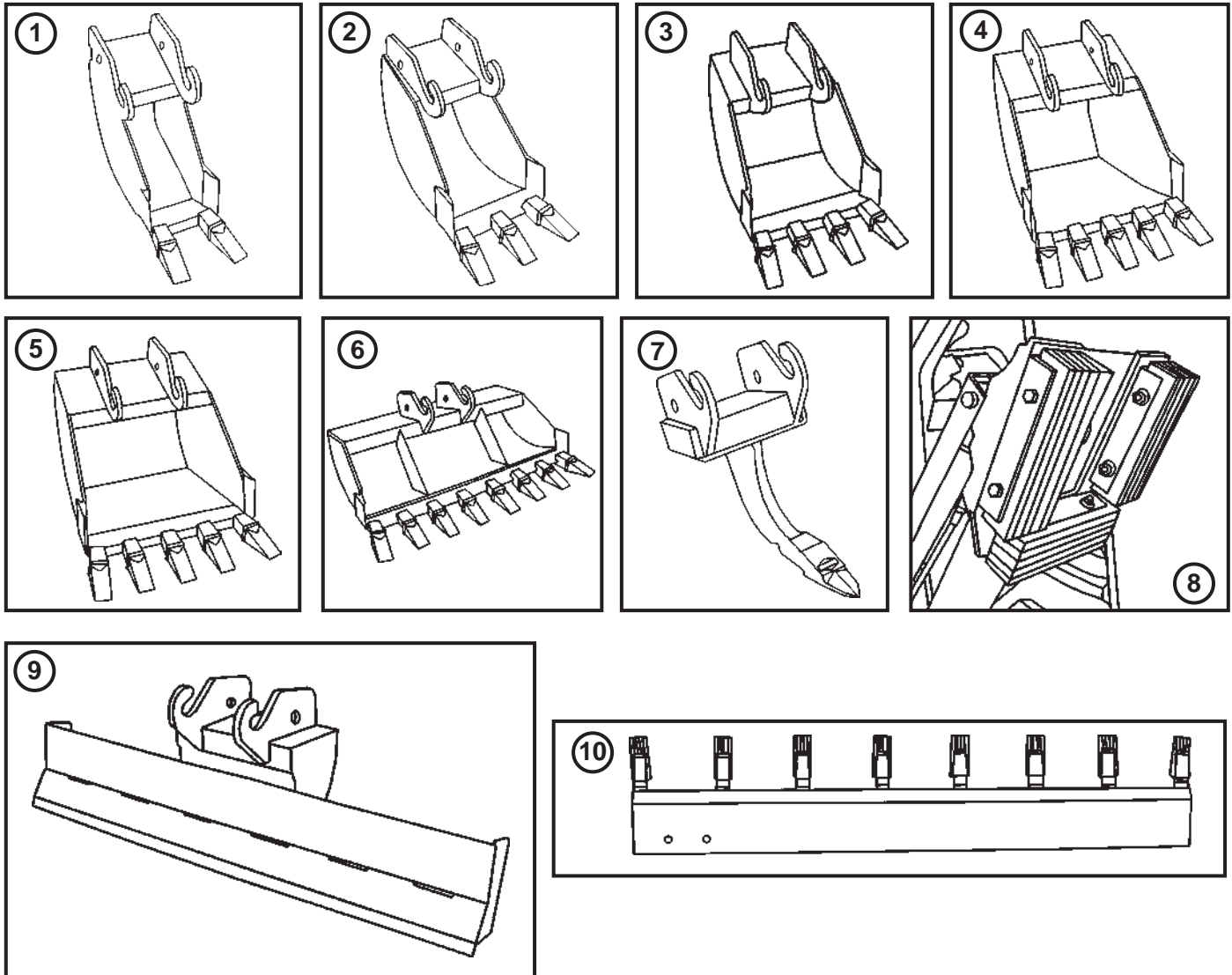


T9 - 4WD Hydraulic Hose Diagram

PART NUMBER	DESCRIPTION	QTY.
80216	1/2" x 18"	3
80166	1/4" x 62"	4
88831	1/2" x 31"	1
80162	3/8" x 60"	1
80101	1/2" x 10"	1
81624	1" x 24"	1
88614	3/8" x 14"	1
80121	1/2" x 17"	1
81028	3/4" x 28"	1
80201	1/2" x 57"	1
80200	1/2" x 47"	1
80031	3/4" x 12"	1
80210	1/2" x 80"	1
80217	1/2" x 17"	2
88093	1" x 93"	1
88409	1/4" x 9"	1
80005	1/4" x 60"	2



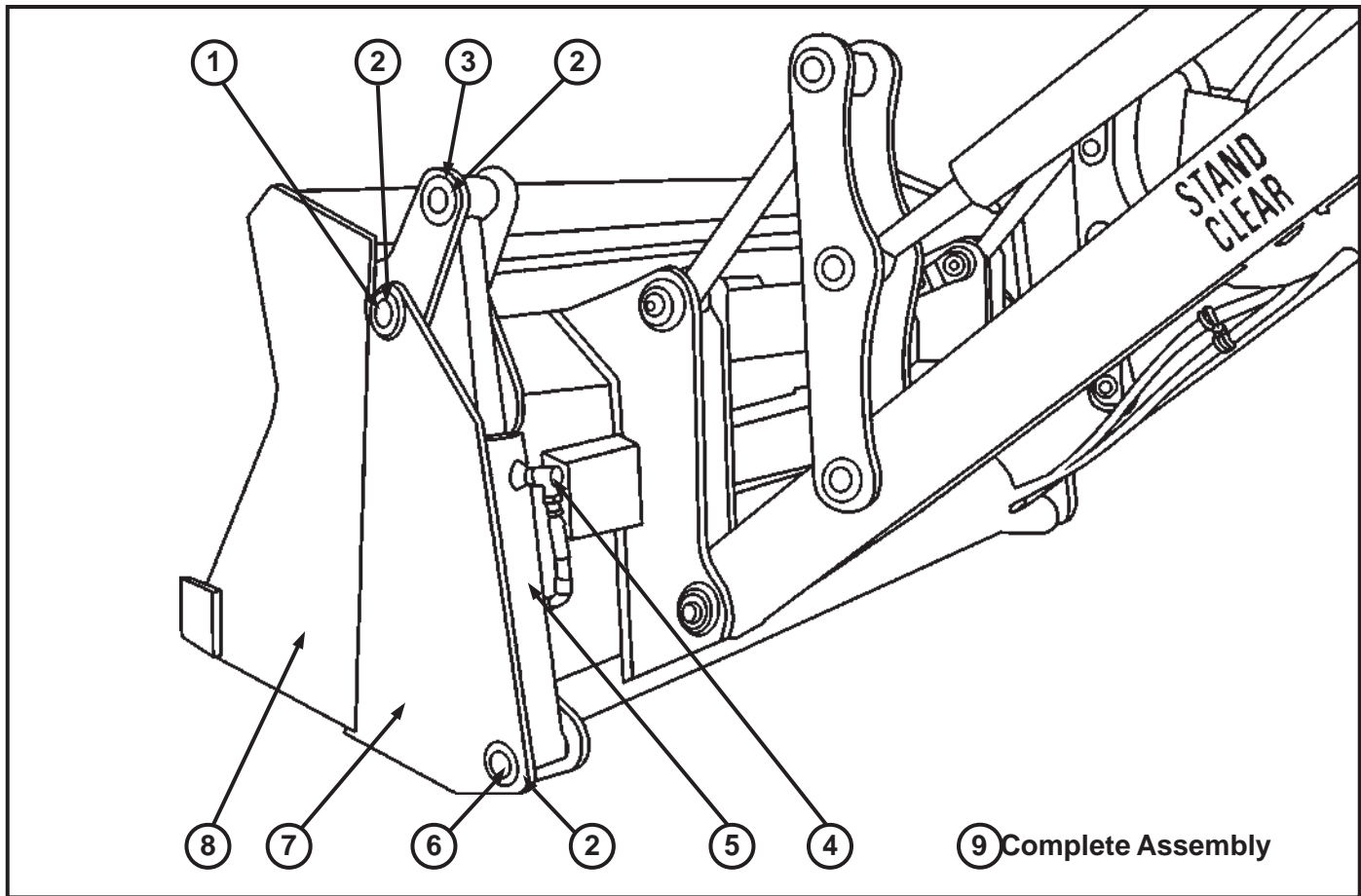
Quick Attach Backhoe Buckets



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	19192	Bucket, 8", Quick Attach, T6/T9	1
2	19073	Bucket, 12", Quick Attach, T6/T9	1
3	19095	Bucket, 16", Quick Attach, T6/T9 (Standard)	1
	19172	Bucket, 18", Quick Attach, T6/T9	
4	19184	Bucket, 20", Quick Attach, T6/T9	1
5	19214	Bucket, 24", Quick Attach, T6/T9	1
6	19148	Bucket, 36", Quick Attach, T6/T9	1
	19157	Bucket, 38", Quick Attach, T6/T9	
7	19002	Ripper, Quick Attach, T6/T9	1
8	11129	Outrigger Pad Assembly, Flip Over	2
9	19001	Blade, Landscape, Quick Attach, T6/T9	1
10	19434	Edge, Cutting, Bolt-On, 60" w/Bolts, T6/T9	1

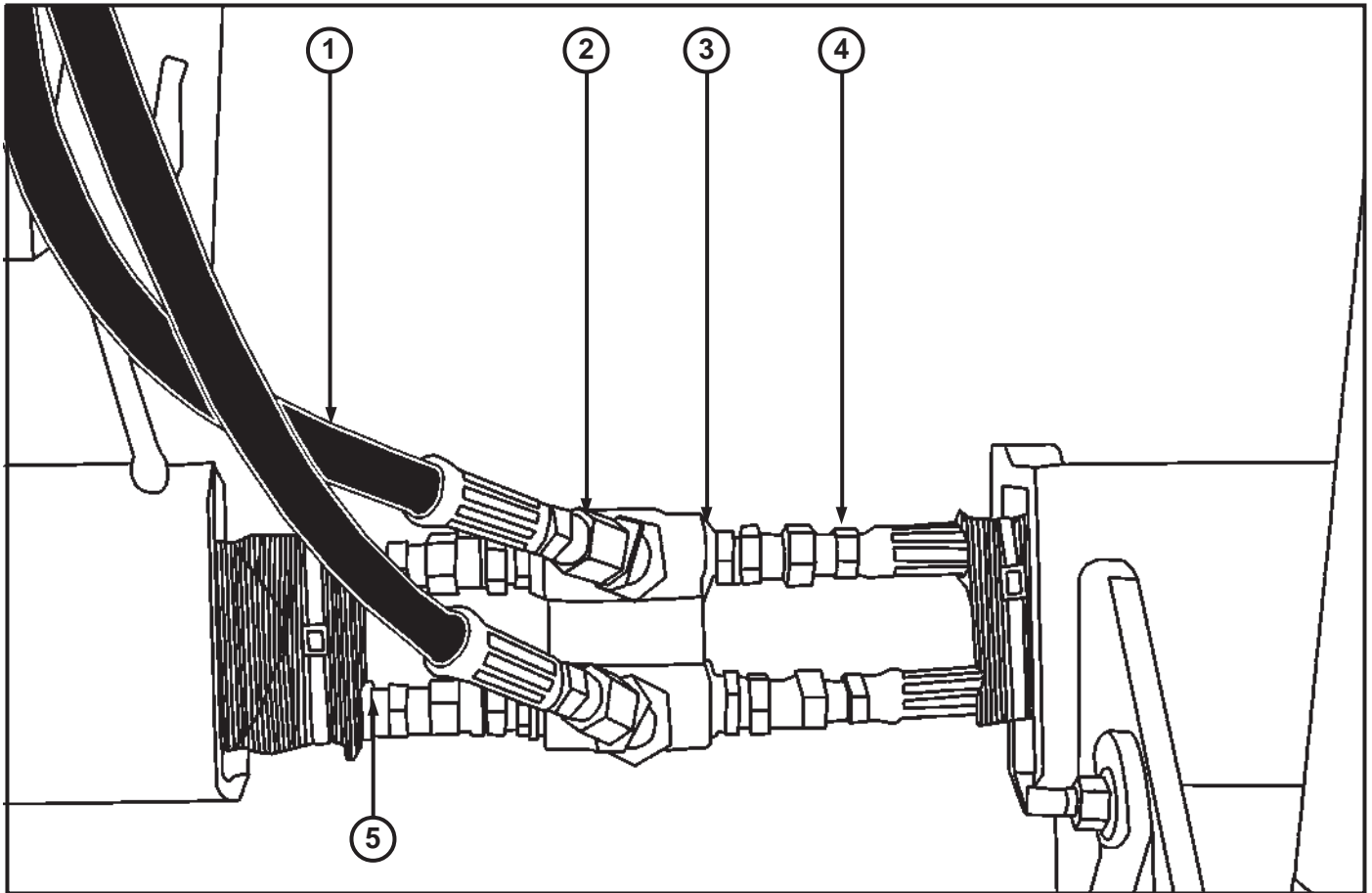
Options

View of Clam Shell 4 in 1 Bucket (Factory Installed Only)



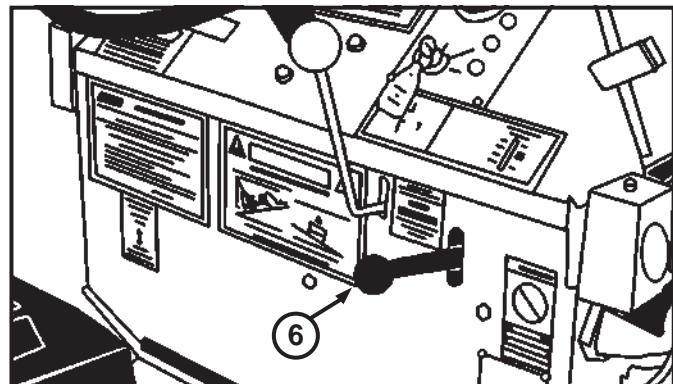
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	17138	Pin, Clam & Blade Pivot	2
2	20082	Nut, ³ / ₈ " NC Flange Z	6
3	17136	Pin, Clam Cylinder Rod End	2
4	22174	Fitting, ¹ / ₄ " MP x ¹ / ₄ " F 90° D, Swivel	2
5	81126	Cylinder, 4 in 1 Bucket	2
6	17137	Pin, Clam Cylinder Head End	2
7	19039	Blade, 4 in 1 Bucket 60"	1
8	19358	Clam, 4 in 1 Bucket 60"	1
9	19502	Bucket Assembly, 4 in 1, Dual, T9 (Complete w/Valve)	1

View of Clam Shell 4 in 1 Bucket from Drivers Position (Factory Installed Option)



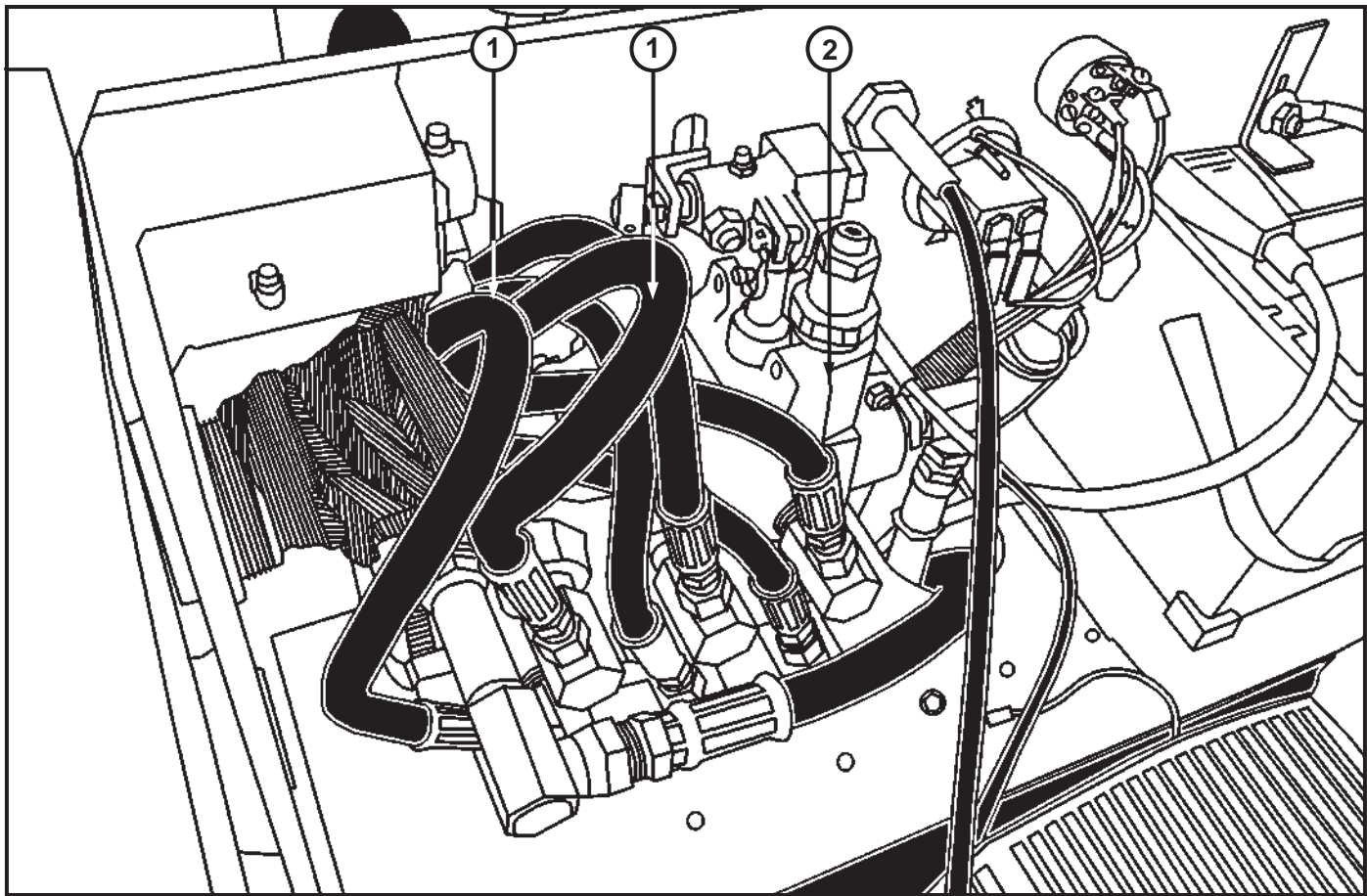
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	80119	Hose, 1/4" x 109", MP x MP, Clam Bucket, T6/T9	2
2	23174	Fitting, 1/4" M x 1/4" F 45 D	2
3	20174	Fitting, 1/4" M x 1/4" Straight, Swivel	4
4	88425	Hose, 1/4" x 25", T5C/T5D/T6/T7/T9	2
5	80029	Hose, 1/4" x 42", T5C/T5D/T6/T7/T9	2
6	21403	Handle, Valve, Loader (Used with Clam Shell Bucket Only)	1

View of Dash for Clam Shell 4 in 1 Bucket (Factory Installed Option)



Options

View Under the Dash for Clam Shell 4 in 1 Bucket (Only as Factory Installed Option)



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	80119	Hose, 1/4" x 109", MP x MP, Clam Bucket, T6/T9	2
2	20146	Valve, Loader, 3 Spool (Used with Clam Shell Bucket Only)	1
NOT SHOWN	22784	Fitting, 1/2" M 90 x 1/4" Swivel	2

Translation Chart

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
adapter	adaptateur	Zwischenstück	adaptador
arm	bras	Arm	brazo
axle assembly	essieu ensemble	Achse vollst	eje conjunto
axle shaft	arbre d'essieu	Achsenwelle	barra eje
bearing	palier	Lager	cojinete
body	carrosserie	Karosserie	carrocería
body assembly	ens carrosserie	Karosserie vollst	conj carrocería
bolt	boulon	Bolzen	bulón
boom	flèche	Hubarm	aguilón
boot	capuchon	Kappe	capuchón
bracket	support	Winkel	grampa
brake head assembly	étrier frein ens	Bremskopf vollst	cabeza freno conj
brake lever assembly	ens levier trein	Bremsebel vollst	conj planca freno
brake shoe	patin frein	Bremsschuh	zapata freno
breather	reniflard	Entlüse	carcasa
bucket	godet	Schaufel	cucharón
bushing	chemise	Buchse	buje
button	bouton	Knopf	botón
cable	câble	Kabel, Seil	Cable
cam	came	Nocke	leva
cap	chapeau	Kappe	tapa
carburetor	carburateur (mélangeur)	Vergaser	carburador
case	carter	Gehäuse	caja
chain	chaînes	Kette	cadena
Channel	canal, moulure	U-Träger, Profil	perfil
choke	enrichisseur	Starterklappe	ahogador
circuit breaker	disjoncteur	Unterbrecher	disyuntor
circuit	circuit	Stromkreis	circuito
clamp	attche, collier	Klammer, Einspannbacke	abrazadera
cleaner	épurateur	Luftreiniger	filtro
clevis	chape	Gabelkopf	horquilla
clip	agrafa	Klemme, Bügel	fbroche
collar	collier	Bundring, Flansch	collar
column	montant, colonne	Säule	columna de dirección
cone	cône, bague intérieure	Konus, Kegel	cónico
connecting	de liaison	verbinden	conectar
connection	connexion	Verbindungsstück,	conexión
connector	raccord	Anschluss, Stecker	conector
control	commande	Steuerung, Betätigung	control
converter	convertisseur	Drehmomentwandler	convertidor
cotter pin	goupille fendu	Splint	chaveta
counterweight	contrepoids	Gegengewicht	contrapeso
coupler	raccord	Anschlussstück, Schnellwechsler	conector, enganche
coupling	accouplement	Verbindungsstück	acoplamiento
cover	couvercle	Deckel	cubierta, tapa
crankcase	carter moteur	Kurbelgehäuse	cárter
crankshaft	vilebrequin	Kurbelwelle	cigüeñal
crosshead	traverse	Kreuzkopf	cruceta
cup	coupelle	Aussenring, Schale	taza

Translation Chart (Continued)

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
cushion	coussin	Dämpfungselement, Sitzpolster, Vollgummi	amortiguador
cylinder	cylindre	Zylinder	cilindro
cylinder block	bloc-cylindres	Motorblock, Zylinder- block	bloque de motor
decal	décalque, décalcomanie	Abziehbild, Beschriftung	calcomania
detachable	amovible	abnehmbar, geteilt	separable
differential	différentiel	Differential	diferencial
diode	diode	Diode	diodo
dipstick	jauge baïonnette	Messstab	varilla medidora
direction switch	inverseur de marche	Richtungsschalter	interruptor de direccion
directional	de sens de marche	richtungsabhängig	sentido de marcha
disc	disque	Scheibe	disco
distributor	allumeur	Verteiler, Zündverteiler	distribuidor
divider	diviseur, répartiteur	Teller, Verteiler	divisor
dowel	goujon	Passstift, Haltestift	espiga
drive axle	essieu moteur	Antriebsachse	eje motriz
drum	tambour	Trommel	tambor
dual	jamelé, double	doppelt, zweifach	doble
elbow	coude	Kniestück, Winkelstück	codo
element	élément	Element, Einsatz	elemento
enclosure	carter, carénage	Umrandung, Gehäuse	compartimiento
end	terminal, extrémité	Ende	extremo
engine	moteur	Motor	motor
exhaust	échappement	Auspuff	escape
extension	prolongement, rollonge	Verlängerung	extensión
exhaust valve	souparpe d'échappement	Auspuff-, Auslassventil	válvula de escape
fan	ventilateur	Lüfter	ventilador
felt	feutre	Filz	anillo de retén
fender	aile, pare-boue	Schutzblech, Kofflügel	guardabarros
film	film, autocollant	Aufkleber	película
filter	filtre	Filter	filtro
fitting	graisseur, raccord	Nippel, Schraubverbindung	acoplamiento
flap	rabat, bavette	Felgenrand, Klappe	pestaña
flasher	clignotant	Blinkgeber	contacto intermitente
flash lamp	ampoule de clignotant	Blinkleuchte	bombilla intermitente
float	flotteur	gleiten, schwimmen	flotador
floor	sol, plancher	Boden	piso
flow	débit, courant, flux	Strömung, Durchfluss	flujo
flywheel	volant (moteur)	Schwungradscheibe	volante
flow protector	protecteur de débit	Durchfluss-Schutzvorrichtung	protector de flujo
foot	ped	Fuss	pie
fork	fourche	Gabel	horquilla
forward	en avant	vorwärts	adelante, hacia adelante
frame	châssis	Rahmen	bastidor
front	avant	vorne, Front	frente, parte delantera
fuel	carburant	Kraftstoff	combustible
FFTL	triple levée	Dreifach-Vollfreihub	alto despejo libre
fuse	fusible	Sicherung	fusible
gasket	joint	Dichtung	junta

Translation Chart (Continued)

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
guage	jauge	Anzeiger	medidor, indicador, calibrador
gear	pignon, engrenage	Zahnrad, Gang	engranaje
glow plug	bougie de préchauffage	Glühkerze	bujía incandescente
grommet	virole	Tülle, Dichtungsring	arandela aislante
group	ensemble	Gruppe, Satz	grupo
guard	protecteur	Schutz, Abdeckung	protector
guide	guide	Führung	guía
hand brake	frein à main	Handbremse	freno de emergencia
handle	poignée	Griff, Handgriff	asa
harness	faisceau	Kabelbaum, Verdrahtung	mazo de cables
head	tête	Kopf	culata
head lamp	phare AV	Scheinwerfer	luz delantera
height	hauteur	Höhe	altura
hinge	charnière	Gelenk, Scharnier	bisagra
hold down	tendeur	Aufspannvorrichtung	sujetador
holder	support	Halter	soporte
hood	capot	Motorhaube	capó
hook	crochet	Zughaken	gancho
horn	avertisseur	Hupe, Signalhorn	bocina
hose	durite, flexible	Schlauch	manguera
housing	boîtier, carter	Gehäuse	caja
hub	moyeu	Nabe, Radnabe	maza
hydraulic	hydraulique	Hydraulik	hidráulico
ignition	allumage	Zündung	encendido
indicator	indicateur	Anzeigevorrichtung	indicador
injection	injection	Einspritzung	inyección
injector	injecteur	Einspritzventil	inyector
inner	intérieur	innen	interior
insert	pièce rapportée	Einsatz	inserto
instrument	instrument	Instrument	instrumento
insulation	isolation	Isolierung	aislante
insulator	isolateur	Isolator, Nichtleiter	aislador
intake valve	soupape d'admission	Ansaugventil	válvula de admisión, válvula de aapiración
interface	surface de réparation, interface	Übertragungseinheit	entrecara, zona Interfacial
jacket	chemise, jupe	Mantel, Wärmeisolierung	camisa, chaqueta
intermediate	intermédiaire, moyen	indirekt	intermedio, medianero
joint	joint	Gelenk, Verbindung	junta, unión, juntaura
keeper	détente	Gegenmutter, Halter	tirante, fijader, retentór
key	clé, clavette	Schlüssel, Keil	llave
lever	levier	Hebel	palanca
leveler	niveleur, correcteur	Planierer	nivelador
light	lumière	Leuchte	luz
line	canalisation	Leitung	tuberia
liner	chemise, garniture	Laufbuchse	camisa
lining	revêtement, garniture (frein)	Auskleidung, Belag	revestimiento, forro
link	baillette, maillon	Glied, Gelenkstück	eslabón
locknut	contre-écrou	Kontermutter, Siche-	tuerca de traba

Translation Chart (Continued)

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
		rungsmutter	
lockwasher	rondelle d'arrêt	Federring	arandela de seguridad
magnet	aimant	Magnet	imán
manifold	collecteur	Krümmer	múltiple
master cylinder	maître-cylindre	Hauptzylinder	cilindro maestro
maximum	maximum	maximal	máximo
meter	instrument, mètre	Messgerät	medidor, dosificador
modulating	de modulation	Modulation	modulador
motor	moteur	Motor, elektr.	motor
mount	support	anbauen, montieren	montar
mounting	montage	Befestigung, Anbausatz	montaje
muffler	silencieux d'échappement	Schaildämpfer	silenciador
nipple	graisseur	Schmiernippel	boquilla
nut	écrou	Mutter	tuerca
oil	huile	Öl	aceite
oil level	niveau d'huile	Ölstand	nivel del aceite
outer	extérieur	aussen	exterior
oil filter	filtre à huile	Ölfilter	filtro de aceite
O-ring	joint torique	O-Ring	sello anular
oversize	surdimensionné, majoré	Übermass, Übergrösse	sobremedida
packing	garniture d'étanchéité	Abdichtung	empaquetadura
pad	tampon, coussin	Polster, Unterlagsblock	almohadilla
pan	carter, cuvette	Ölwanne	colector del cárter
panel	tableau	Verkleidungsblech, Instrumentenbrett	panel, tablero de instrumentos
pedal	pédale	Pedal	pedal
pin	goupille, axe	Bolzen, Stift	pasador
pinion	pignon	Ritzel	piñón
piston	piston	Kolben	pistón
pivot	pivot	Anlenk-, Drehpunkt, Auf- hängung	pivote
plate	plaque, plateau	Platte, Blech	placa, plancha
plug	bouchon	Schraubstopfen	tapón, bujía
plunger	plongeur	Tauch-, Ventilkolben	émbolo
polished	poli	poliert	pulido
precleaner	préfiltre	Vorreiniger	antefiltro
primary	primaire	Haupt-, Vor-, primär	primario
priority	priorité, séquence	Sicherheits-, Vorrang	prioridad
protector	protecteur	Schutzvorrichtung	protector
pulley	pulie	Riemenscheibe	polea
pump	pompe	Pumpe	bomba
push rod	poussoir	Schubstange	varilla de empuje
race	chemin de roulement, cuvette	Lager-, Laufring	anillo de cojinete
radiator	radiateur	Kühlernetz	radiador
rail	rail (glissière)	Schiene	riel, mástil
rear	arrière, AR	rückwärts, hinten	posterior, trasero
rectifier	redresseur	Gleichrichter	rectificador
regulator	régulateur	Regler, Reguliervorrichtung	regulador
relay	relais	Relais	relé

Translation Chart (Continued)

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
relief valve	soupape de décharge	Überdruckventil	válvula de alivio
repair	réparation	Reparatur	reparación
required (Reqd.)	requis	erforderlich	requerido
reservoir	réservoir	Tank	depósito, tanque
retainer	arrêtoir	Halterung	retén
reverse	marche AR	Rückwärtsgang	marcha atrás, reverso
right hand (RH)	côté droit, à droit	rechts	lado derecho (L.D.)
ring	anneau, joint	Ring	anillo, aro, argolla
rivet	rivet	Niete	remache
rocker arm	culbuteur	Kipphebel	balancin
rod	bielle	Stange, Pleuelstange	varilla
roller	galet	Laufrolle	rodillo
rotor	rotor	Rotor, Laufrad	rotador, rotor, rodete
seal	joint	Dichtring	sello
seal-o-ring	joint torique	O-Ring-Dichtung	anillo, anillo de estancamiento
sealant	produit d'étanchéité	Dichtungsmittel	sellante, sellador
seal-u-cup	joint en demi-lune	U-Profil-Dichtungsring	copa en "U"
seat	siège	Sitz	asiento
secondary	secondaire	Anbau-, Hilfs-, Sekundär	secundario, auxiliar
sender	émetteur, sonde	Geber (Kraftstoffstand)	sensor
sending unit	émetteur	Messwertgeber	unidad sensora
separator	séparateur	Separator, Abscheider	separador
setscrew	vis de fixation	Gewindestift	tornillo de traba, tornillo prisionero
shaft	arbre, axe	Welle	eje, mango largo, rastágo
shield	bouclier, écran de protection	Abdeckung, Schild	protector
shim	cale de réglage	Beilagscheibe	calce
short block	bloc-moteur nu	Teil-, Skelettmotor	bloque de motor sin accesorio, bloque parcial
shroud	panneau, plaque	Abdeckplatte	cubierta, refuerzo de ventilador
sideshift	déport latéral	Seitenschubvorrichtung	desplazador lateral
sleeve	manchon, chemise	Büchse, Hülse	manguito
snap	jonc d'arrêt	Sprengring	anillo de presión, cierre de resorte
socket	douille, chape	Fassung	enchufe
solenoid	solénoïde	Magnetspule	solenoide
spacer	entretoise	Distanzstück	espaciador
spark plug	bougie d'allumage	Zündkerze	bujía
spider	croisilon	Gelenkkreuz	cruceta
spindle	pivot, fusée, broche	Spindel, Achszapfen	punta de eje
spool	tiroir	Ventilstößel	carrete
springs	ressort	Feder	resortes
sprocket	barbotin	Antriebsrad	rueda dentada
standard (Std.)	normal	Standard	estándar
starter	démarrreur	Anlasser	arranque
stationary (Stat.)	stationnaire	Aussenmast, stationär	estacionario, inmóvil
stator	stator	Ständer, Stator	estator

Translation Chart (Continued)

ENGLISH	FRANÇAIS	DEUTSCH	ESPAÑOL
steering	directon	Lenkung	dirección
stem	tige	Schaft	vóstago
strainer	filtre, crépine	Sieb	filtro
strap	sangle	Riemen, Gurt	banda, correa
strut	étais, tirant	Strebe	tirante de dirección
stud	goujon, tenon	Stehbolzen	espárrago
support	support	Auflager, Abstützung	soporte
switch	interrupteur	Schalter	interruptor
tag	étiquette	Anhänger	etiqueta
tapered	conique	konisch, kegelförmig, verjüngt	perfil cónico, aguzado
tappet	poussoir	Anschlag, Stößel	levantaválvulas
tee	té	T-Stück	conexión "T"
terminal	borne	Anschlussklemme	terminal
thermistor	thermistor	Thermistor, Temperatur- fühler	termistor
thermostat	thermostat	Thermostat	termostato
tightner	tendeur	Spanner	tensor, ajustador
tilt cylinder	vérin d'inclinaison	Neigezylinder	cilindro de inclinación
tire	pneumatique	Reifen	neumático
transfer	déclacomane, autocollant	Abziehbild	transferencia
transmission	transmission, boîte de vi- tesses	Getriebe	transmisión
tread-step	marchepied	Triffstufe	estribo antirresbalante
tube	tuyau, tube, gicleur	Rohr, Schlauch	tubo
tubing	canalisations	Rohr, Schlauchleitung	tuberias, tubos
undersize	sous-dimensionne, minore	Untermass	bajomedida
union	raccord	Anschlusstück, Verbinaung	unión
universal joint	cardan	Kreuzgelenk	junta universal
upright	montant	senkrecht, Hubgerüst	montante vertical
valve	soupape, clapet	Ventil	válvula
valve mechanism	culbuterie	Ventilsteuerung	mecanismo de válvulas
vacuum	vide, dépression	Vakuum, Unterdruck	vacio, vacuómetro
washer	rondelle	Unterlegscheibe	aradela
water	eau	Wasser	agua
water pump	pompe à eau	Wasserpumpe	bomba de agua
wear strip	bande d'usure	Verschleissstreifen	plancha de desgaste
wheel	roue	Rad	rueda
wheel cylinder	cylindre de roue	Radbremszylinder	cilindro de rueda
wiper	racleur	Wischer, Abstreifer	limpiaparabrisas
wire	fil	Draht, Leitung	alambre, cable
wire harness	faisceau de fils	Kabelbaum	mazo de cables
wire marker	marquer de fil	Kabelmarkierung	marcador de alambre
worm	vis sans fin	Schnecke	tornillo sin fin
wrap	revêtement, enveloppe	Hülle	envolver, envoltura
yoke	chape	Gabelgelenk, Joch	horquilla

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SAMPLE Limited New Product Warranty

WE WARRANT TO THE ORIGINAL CONSUMER/PURCHASER THAT EACH NEW PRODUCT SOLD BY US WILL BE FREE FROM MANUFACTURING DEFECTS IN NORMAL SERVICE USE FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PURCHASE.

Our obligation under this warranty is expressly limited, solely at our option, to the replacement or repair at the premises of Terramite Corporation, 600 Goff Mountain Road, Charleston, West Virginia 25356, or at a service facility designated by us, of such part or parts as inspection shall disclose to have been defective. This warranty does not apply to defects caused by casualty or unreasonable use (including faulty repairs by others and failure to provide reasonable and necessary maintenance) nor to ordinary wear and tear, while in the possession of the consumer/purchaser.

This warranty is for replacement or repair of defective parts only, and does not provide for replacement of complete products due to a defective part or parts nor does it cover any charges of whatever kind in connection with the replacement of any such defective parts.

We shall not be responsible for special, indirect, incidental or consequential damages of any kind including, but not limited to, labor costs or transportation charges in

connection with the replacement or repair of defective parts.

Components such as engines, pumps and batteries which are supplied by other manufacturers, are warranted by the manufacturer's nearest "Factory Service Center" for repair or replacement of those items. However, when necessary, the manufacturer will act as your agent to secure adjustment.

To obtain warranty service, purchaser must bring the product to an authorized Terramite Service facility. For the facility nearest you, contact Terramite Corporation, P.O. Box 7146, Charleston, WV 25356 or telephone (304) 776-4231.

This warranty gives you specific rights and you may have other rights which vary from state to state. This warranty is in lieu of any other warranty, whether written, verbal, expressed or implied and may not be modified or changed by Terramite Distributors or Dealers. This warranty shall be null and void unless the section below has been filled in and the manufacturer's copy of this document is returned to Terramite Corporation, P.O. Box 7146, Charleston, WV 25356 within ten (10) days of the date of purchase by the original owner.

MODEL# _____ SERIAL# _____ ENGINE# _____
 PURCHASED FROM _____ CERTIFICATE OF ORIGIN# _____
 NAME OF PURCHASER _____
 ADDRESS _____
 PHONE (_____) _____ CERTIFICATE OF ORIGIN# _____
 TYPE OF BUSINESS _____
 IS THIS YOUR FIRST TERRAMITE? _____
 WHAT KIND OF SIMILAR EQUIPMENT DO YOU OWN? _____

 OPTIONS _____

 DATE OF PURCHASE _____ SIGNATURE _____
 (ORIGINAL PURCHASER)

Fill in the information requested above.
 This will be useful anytime you need to order parts.
 This is only a SAMPLE of the Limited New Product Warranty provided with each new machine to the original owner.