



Compact Tractor Loader Backhoe



IMPORTANT!

READ THIS MANUAL BEFORE OPERATING MACHINE.



PARTS MANUAL



"Backed by a World of Experience"

600 Goff Mountain Road ♦ P.O. Box 7146, Charleston, WV 25356-7146 U.S.A.

1-800-428-3772 ♦ Fax 1-800-776-4845

International 1-304-776-4231 ♦ Fax 1-304-776-4845

www.terramite.com

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SECTION ONE:

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History of Terramite Backhoes

In 1963, K. G. Cunningham, the founder of Terramite, designed and built a full-functioning backhoe as an attachment for a Gravely tractor. Although it was an instant success with cemeteries and contractors who were looking for a small machine, it soon became apparent that there was a greater need for a compact backhoe that was about a third the size of the larger machines that were available at the time. Following several years of R&D, the Model 1 was introduced in 1965. Realizing the need for a more versatile machine, the Model 2 followed, which added a loader and an all-gear drive.

The need for better control while endloading prompted the hydrastatic drive Terramite 3 in 1972. This was followed by the 3-15 in 1974, the Model 4 in 1976 and the Model 5 in 1980. The T5B was introduced in 1986, the T5C, premiered in 1990, and the latest compact loader/backhoe, the T6 made its debut in early 1997. Each model represented major as well as minor improvements in the original machine.

Our never ending policy of improvements and enhancements of our original design, accessories and services is the reason Terramite is number one in the compact tractor loader backhoe manufacturing business today.

Know Your Warranty

We have included the following breakdown of the coverage of your warranty to assist you in quickly determining just what is covered and what is not.

Where Do I Obtain Warranty Service?

For the authorized Terramite Service facility nearest you, call Warranty Service Manager, Terramite 1-800-428-3772.

Who Is Covered and For How Long?

Only the original consumer/purchaser of a new T6 for a period of one (1) year from the date of purchase.

What Is Covered Under Warranty?

Warranty is limited to replacement and repair of defective parts only that failed under normal use. Warranty does not include the replacement of the machine.

Does this Include Cost of Replacement and Repair?

The first step to obtaining service work is to call the Terramite Warranty Service Manager, 1-800-428-3772, and obtain an authorization number. Upon our inspection of the replaced part, if it is determined that the item was truly defective and was not damaged or abused by failure to perform reasonable and necessary maintenance, Terramite will authorize payment of a reasonable amount for the replacement and/or repair of said item.

Where Do I Obtain the Replacement Item?

First, contact your dealer as he may have the needed part in stock. If not, contact our Terramite Warranty Service Manager, 1-800-428-3772. As the manufacturer, we buy these items at a lower price than most dealers. Therefore,

we reserve the right to supply all items replaced when under warranty. However, some items are covered under separate warranties from the original manufacturer, such as pumps, motors, tires, etc., which are often honored at their local dealers. Many of these manufacturers include warranty information that can be found in your T6 Service Manual.

Does Warranty Cover Any Other Costs?

Terramite will not be responsible for indirect or consequential damages of any kind, such as lost income, penalties for not completing work on schedule, etc., due to the failure of the warranted machine. Terramite will not cover any added charges, such as renting another machine or the cost of transporting the machine to and from being repaired, etc.

Can This Warranty be Changed by the Dealer?

Terramite will not back up any warranty claim other than what is stated on the official Limited New Product Warranty that accompanies the T6 at time of purchase. This summary of the warranty does not constitute a warranty itself, only answers those questions most often asked. Read your official warranty for full details of its coverage and exclusions.

**SEE SAMPLE WARRANTY
ON NEXT PAGE.**

SAMPLE Limited New Product Warranty

WE WARRANTY 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 nature 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 PURCHSER)

**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.**

Before You 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 given instructions 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.

Safety Tips

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 T6 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 should not run the machine.

Before Operating the Terramite T6

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, if possible.

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 Whatever 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 hidden 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 T6 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.

Hand Signals

Purpose and Scope

The purpose of the hand signals is to provide an easy means of communications in the interest of safety. These hand signals are in general agreement with U.S. Army Field Manual, FM21-60, Section II, Standard Arm and Hand Signals. The standard provides for hand signals to be used in agricultural operations especially when noise or distance precludes the use of normal voice communications.



Fig. 1 - THIS FAR TO GO. Place palms at ear level facing head, move laterally inward to indicate remaining distance to go.



Fig. 2 - COME TO ME. Raise the arm vertically overhead, palm to the front, and rotate in large horizontal circles.



Fig. 3 - MOVE TOWARD ME. Beckon by holding the arm horizontally to the front, palm up, and motioning toward the body.



Fig. 4 - MOVE OUT - TAKE OFF. Face the desired direction of movement; hold the arm extended to the rear; then swing it overhead and forward in the direction of desired movement until it is horizontal, palm down.



Fig. 5 - STOP. Raise hand upward to the full extent of the arm, palm to the front. Hold that position until the signal is understood.

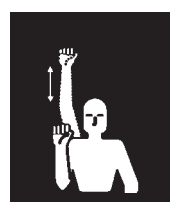


Fig. 6 - SPEED IT UP - INCREASE SPEED. Raise the hand to the shoulder, fist closed; thrust the fist upward to the full extent of the arm and back to the shoulder rapidly several times.

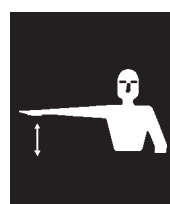


Fig. 7 - SLOW IT DOWN - DECREASE SPEED. Extend the arm horizontally sideward, palm down, and wave arm downward 45 deg. minimum several times, keeping the arm straight. Do not move arm above horizontal.



Fig. 8 - START THE ENGINE. Simulate cranking the vehicle by moving arm in a circular motion at waist level.



Fig. 9 - STOP THE ENGINE. Draw right hand palm down, across the neck in a "throat cutting" motion from left to right.



Fig. 10 - LOWER EQUIPMENT. Make circular motion with either hand pointing to the ground.



Fig. 11 - RAISE EQUIPMENT. Make circular motion with either hand at head level.

CALL FIRST

Call Your One-Call System First

Before you start any digging project, don't forget to call the local One-Call System in your area. If you don't call, you may have an accident or suffer injuries, cause interruption of services, damage the environment or experience job delays. The One-Call System will notify participating utility companies of your proposed digging activities.

If you don't know the number for the local One-Call in your area, dial the national One-Call referral number toll free, 1-888-258-0808 for this information.

Utilities will then mark their underground facilities by using the following international marking codes:

Red	- Electric
Yellow	- Gas, Oil or Petroleum
Orange	- Communication, Telephone, TV
Blue	- Potable Water
Green/Brown	- Sewer
White	- Proposed Excavation
Pink	- Temporary Survey Markings



**One-Call Safety Labels & Placards Available From
Hazard Communication Systems, Inc. ♦ 800-748-0241**



SECTION TWO:

PARTS

Please Note: Left or Right is Determined from the Operator's Position

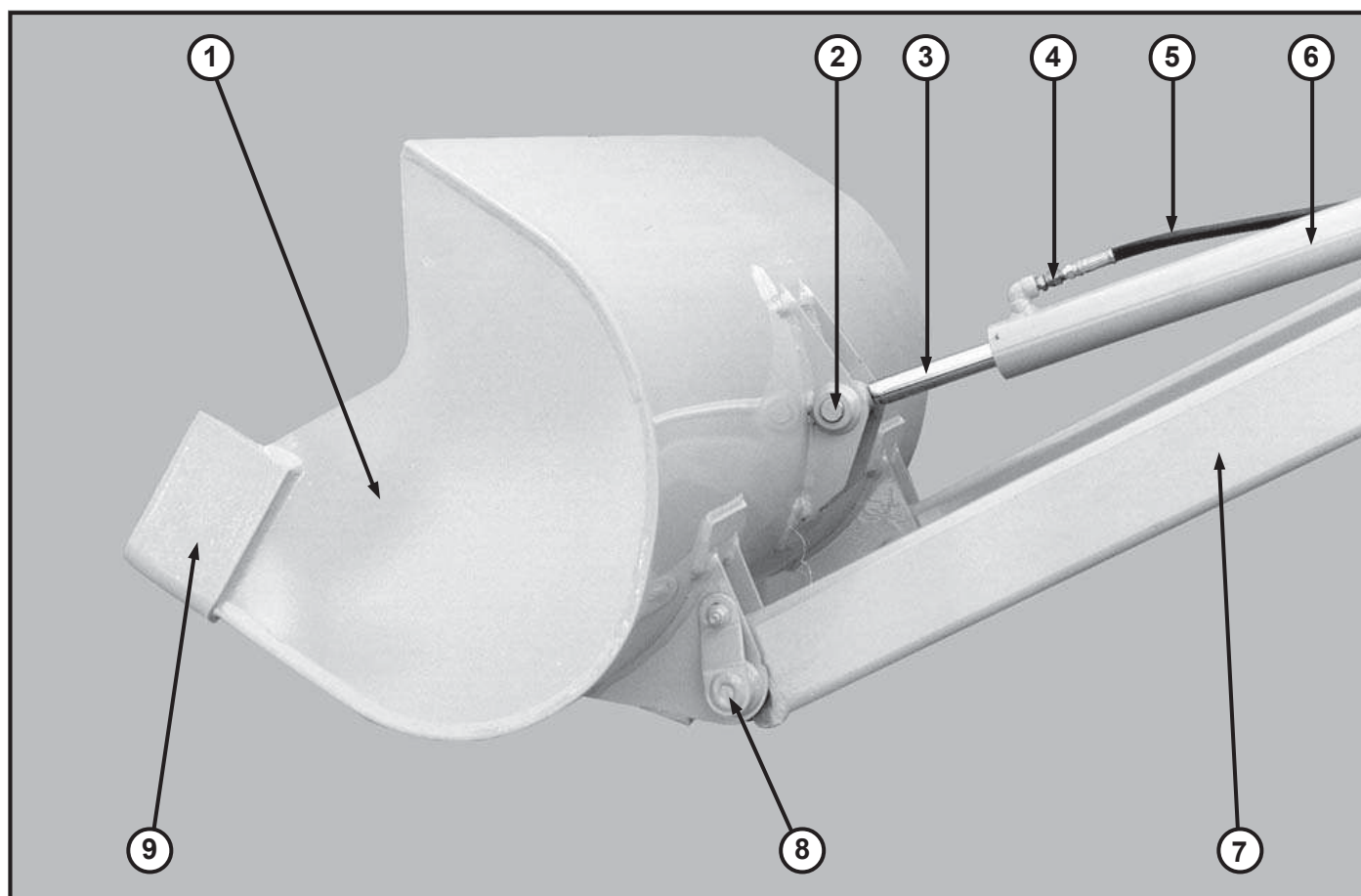
Operator Position for Endloader Use



Operator Position for Backhoe Operation

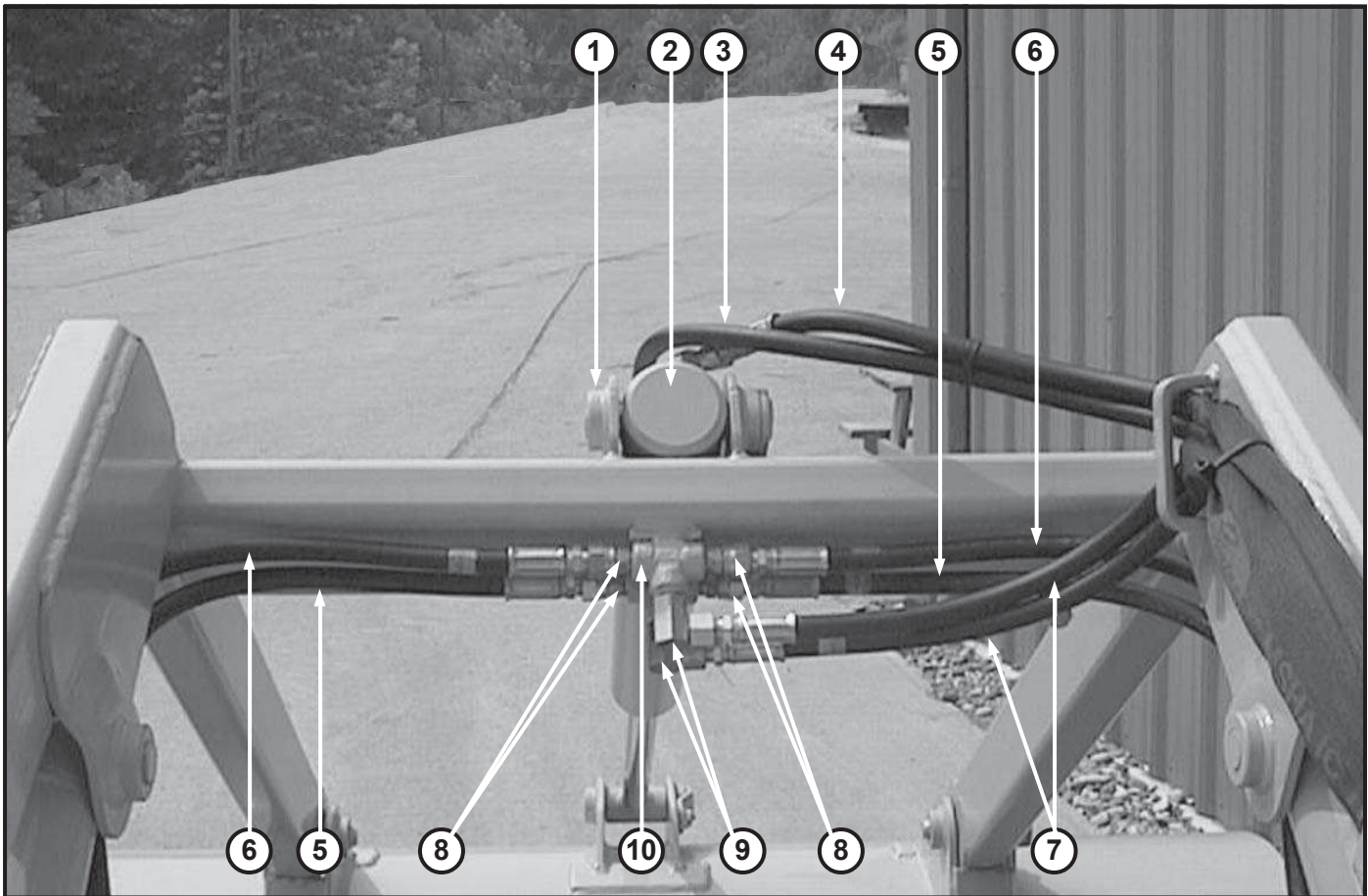


View from Left Side of Loader Bucket



ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	13306	1-33.T6	60" Loader Bucket	1
2	13000	1-30.T5C	Pin, 1" x 5 ¹ / ₄ ", Front Curl Cylinder	2
3	23109	1-31.01.T6	Rod, Front Curl	1
4	20176	0107.6-6	Fitting, ³ / ₈ " MP x ³ / ₈ " FM Swivel	12
5	88698	8-6.98	Hose, ³ / ₈ " x 98"	1
6	23106	1-31.T6	Front Curl Cylinder - Loader Bucket	1
7	12406	1-24.T6X	Loader Arm Assembly	1
8	13200	1-32.T5C	Pin, 1" x 4 ³ / ₄ "	2
9	13060	1-33.03.60	Cutting Edge (Weld-On)	1

View from Front with Loader Arm Assembly Raised



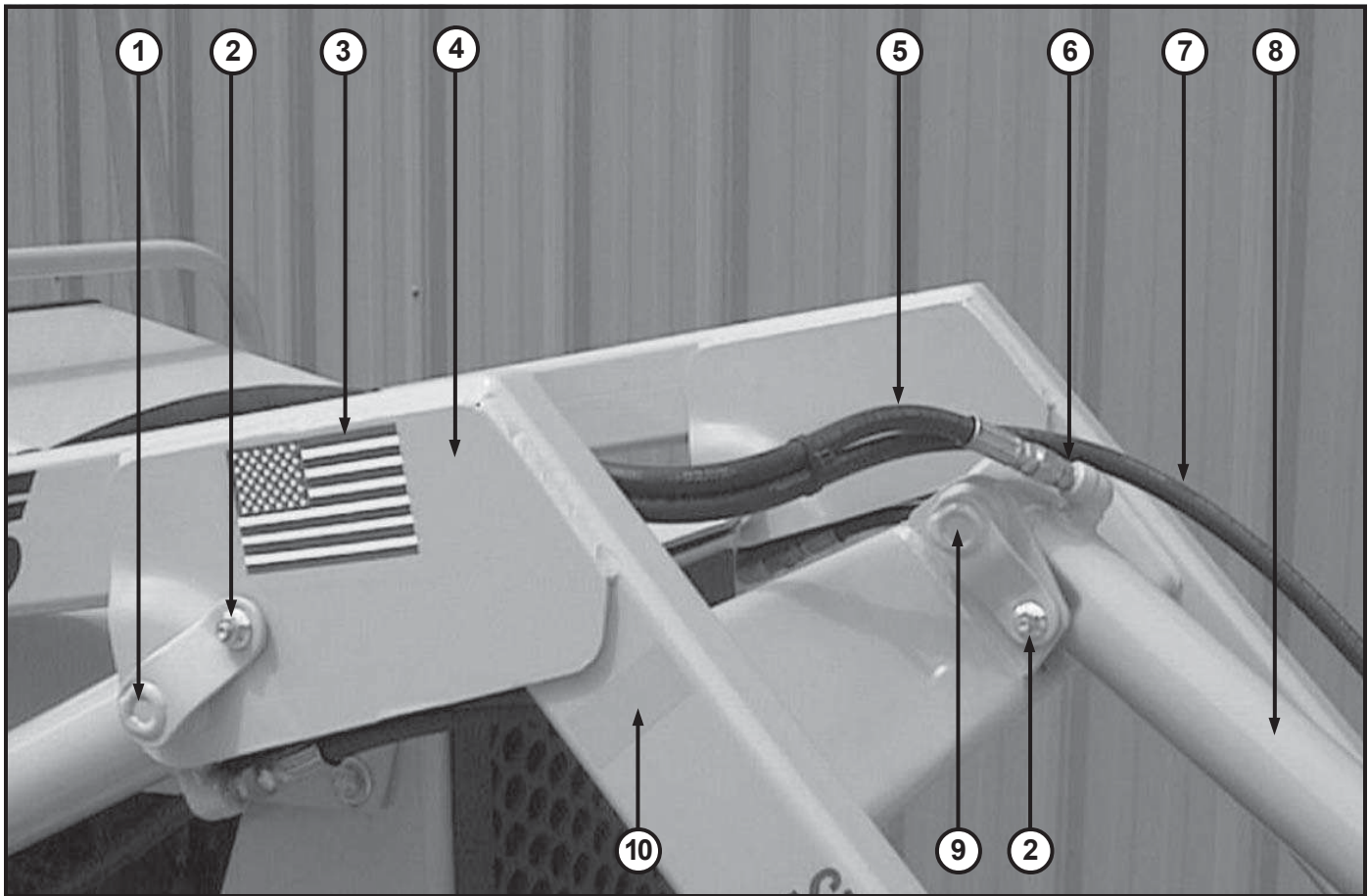
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	13000	1-30.T5C	Pin, 1" x 5 ¹ / ₄ ", Front Curl Cylinder	2
2	23106	1-31.T6	Front Curl Cylinder - Loader Bucket	1
3	88698	8-6.98	Hose, ³ / ₈ " x 98"	1
4	88678	8-6.78	Hose, ³ / ₈ " x 78"	1
5	88620	8-6.20	Hose, ³ / ₈ " x 20"	2
6	88642	8-6.42	Hose, ³ / ₈ " x 42"	2
7	88675	8-6.75	Hose, ³ / ₈ " x 75"	2
8	20176	0107.6-6	Fitting, 3/8" MP x 3/8" FM Swivel	12
9	22176	2107.6-6	Fitting, ³ / ₈ " x ³ / ₈ " Swivel 90°	2
10	22266	022T.6-6	Fitting, ³ / ₈ " Tee	2

View from Front of Loader Bucket



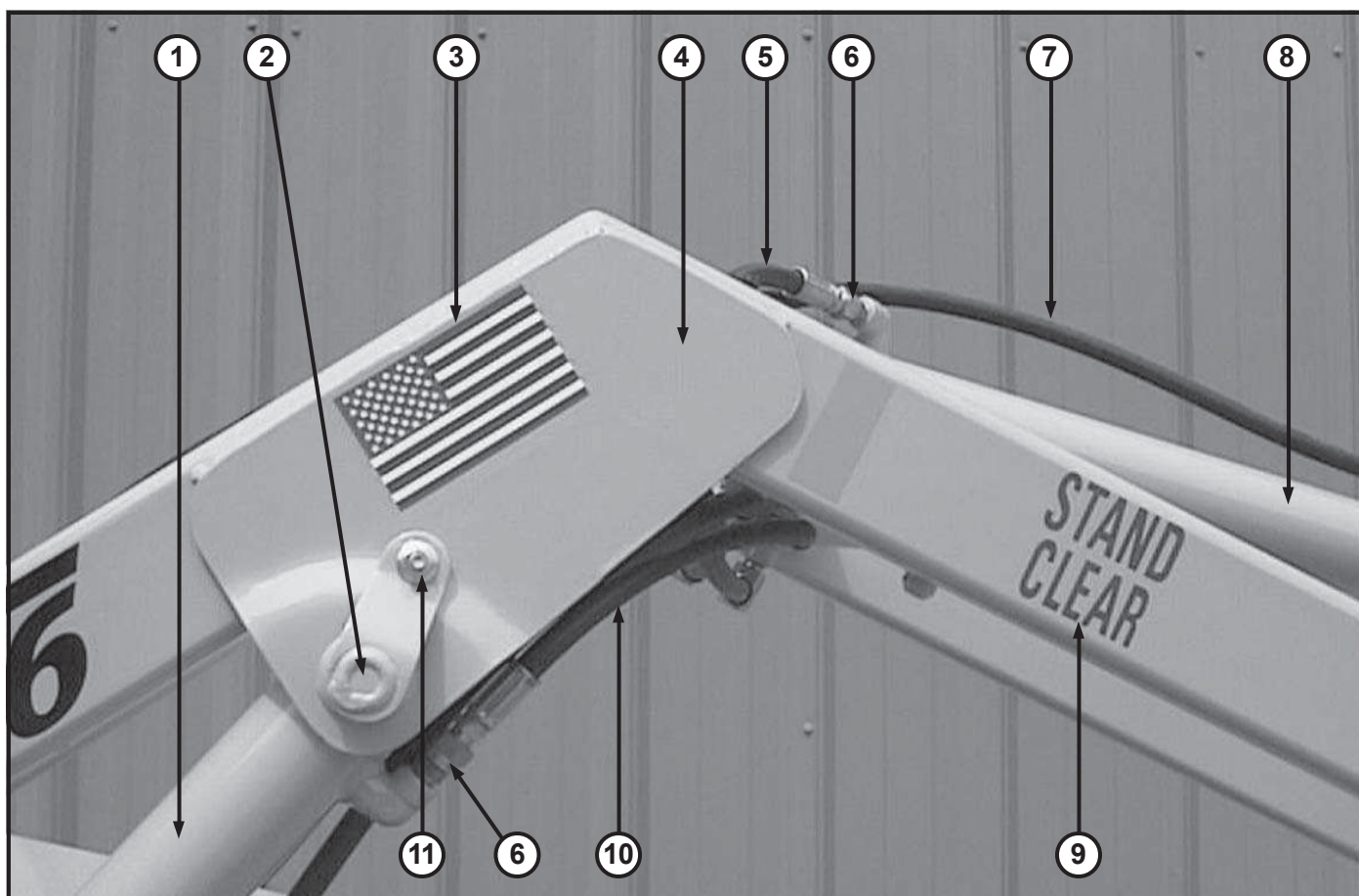
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	13306	1-33.T6	60" Loader Bucket	1
2	13060	1-33.03.60	Cutting Edge (Weld-On)	1

View from Right Side of Loader Arm Assembly



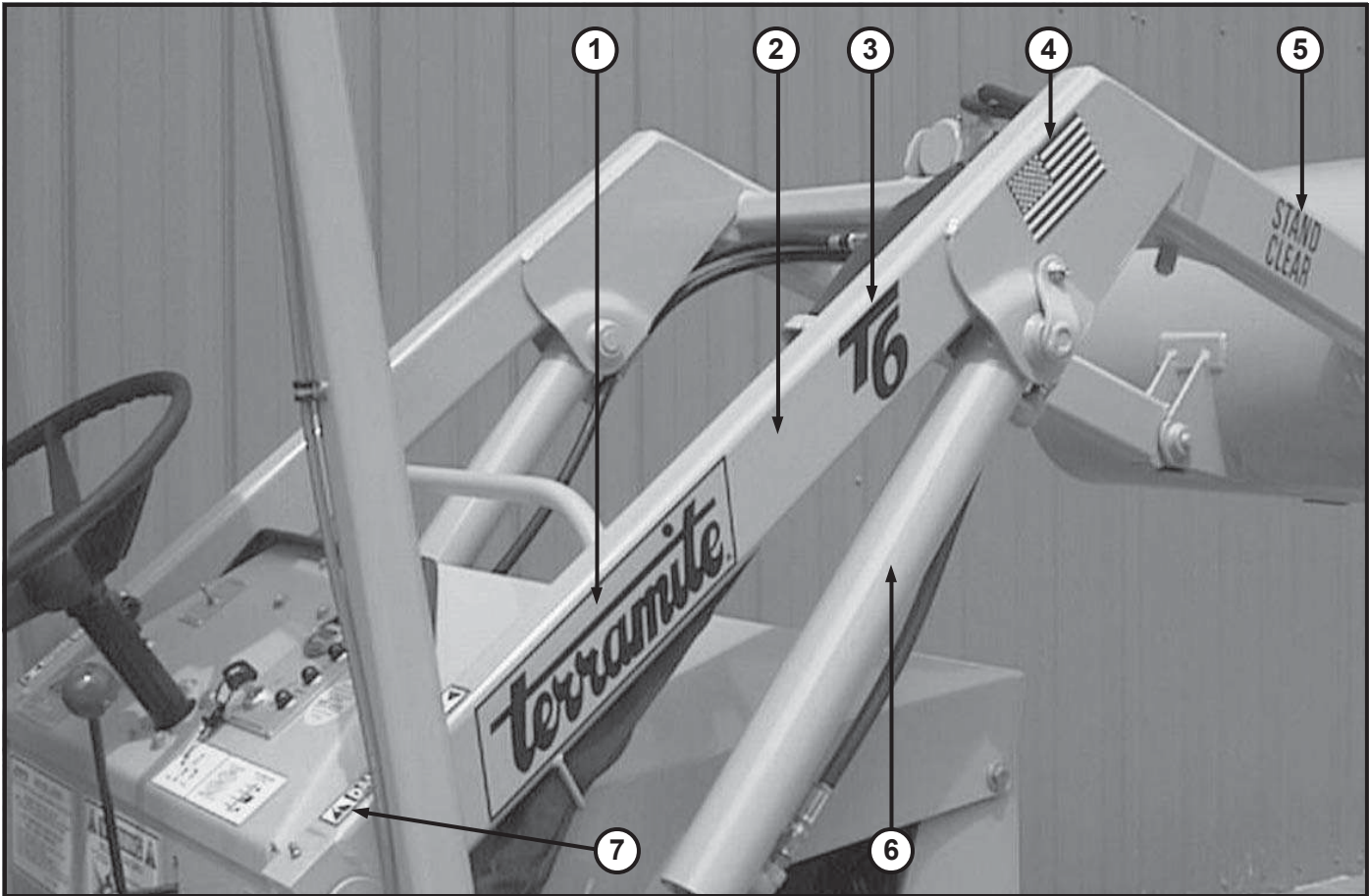
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	12600	1-26.T5C	Pin, 1" x 5 ¹ / ₄ " - Left Cyl. (Head)	2
2	20082	1N6CF	Nut, ³ / ₈ " NC Flange	24
3	14099	1-400.99	Decal, American Flag	2
4	12076	12076	2 WD	1
	12077	12077	4 WD	1
5	88678	8-6.78	Hose, ³ / ₈ " x 78"	1
6	20176	0107.6-6	Fitting, 3/8" MP x 3/8" FM Swivel	12
7	88698	8-6.98	Hose, ³ / ₈ " x 98"	1
8	23106	1-31.T6	Front Curl Cylinder - Loader Bucket	1
9	13000	1-30.T5C	Pin, 1" x 5 ¹ / ₄ ", Front Curl Cylinder	2
10	14021	1-402.1	Reflective Tape, Amber	2

View from Left Side of Loader Arm Assembly



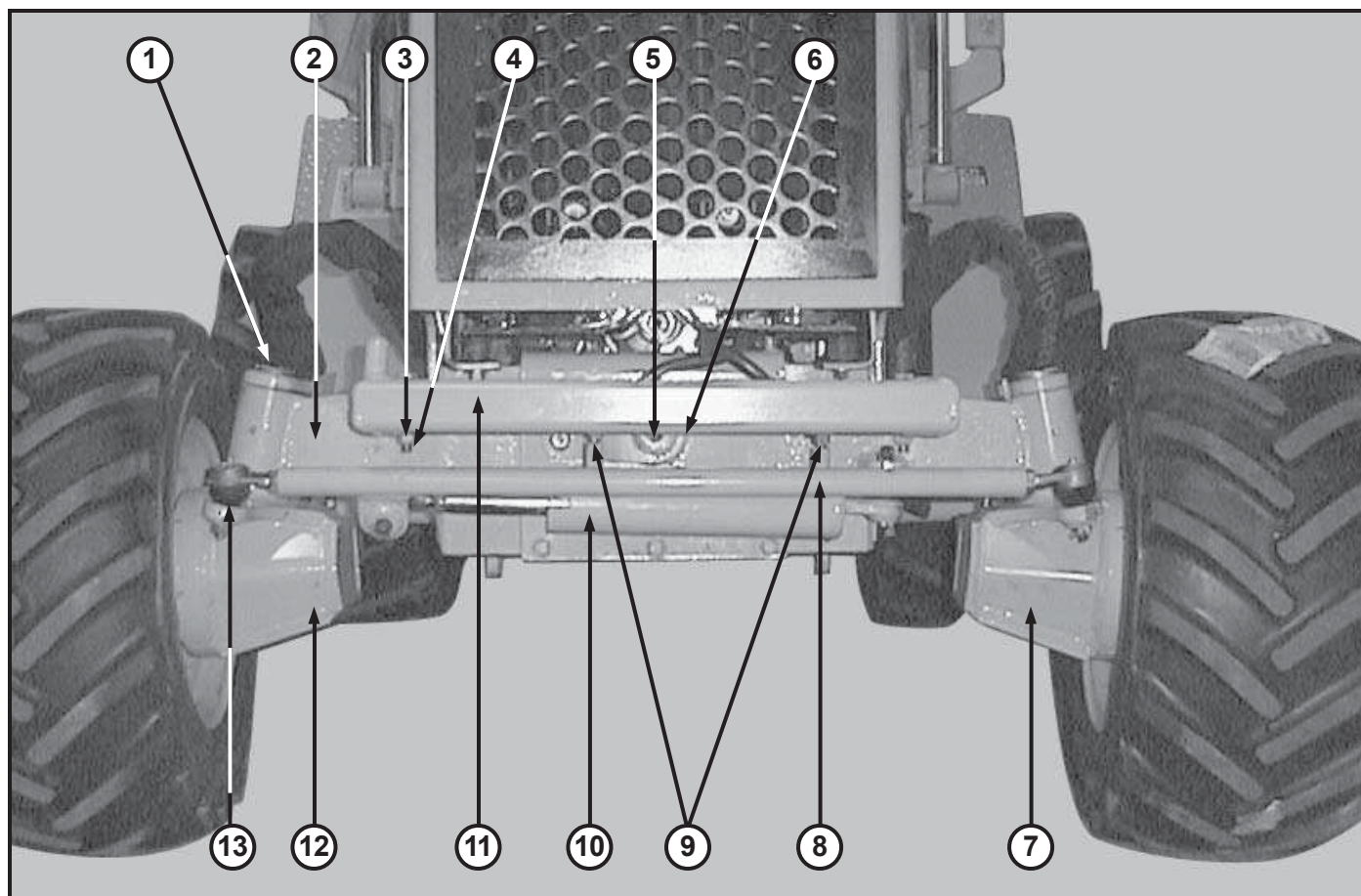
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	22506	1-25.T6	Arm Cylinder - Lift	2
2	12600	1-26.T5C	Pin, 1" x 5 1/4" - Lift Cyl. (Head)	2
3	14099	1-400.99	Decal, American Flag	2
4	12076	12076	2 WD	1
	12077	12077	4 WD	1
5	88678	8-6.78	Hose, 3/8" x 78"	1
6	20176	0107.6-6	Fitting, 3/8" MP x 3/8" FM Swivel	12
7	88698	8-6.98	Hose, 3/8" x 98"	1
8	23106	1-31.T6	Front Curl Cylinder - Loader Bucket	1
9	14004	1-400.4	Decal, Stand Clear	4
10	88620	8-6.20	Hose, 3/8" x 20"	2
11	20082	1N6CF	Nut, 3/8" NC Flange	24

View from Right Side of Loader Arm Assembly



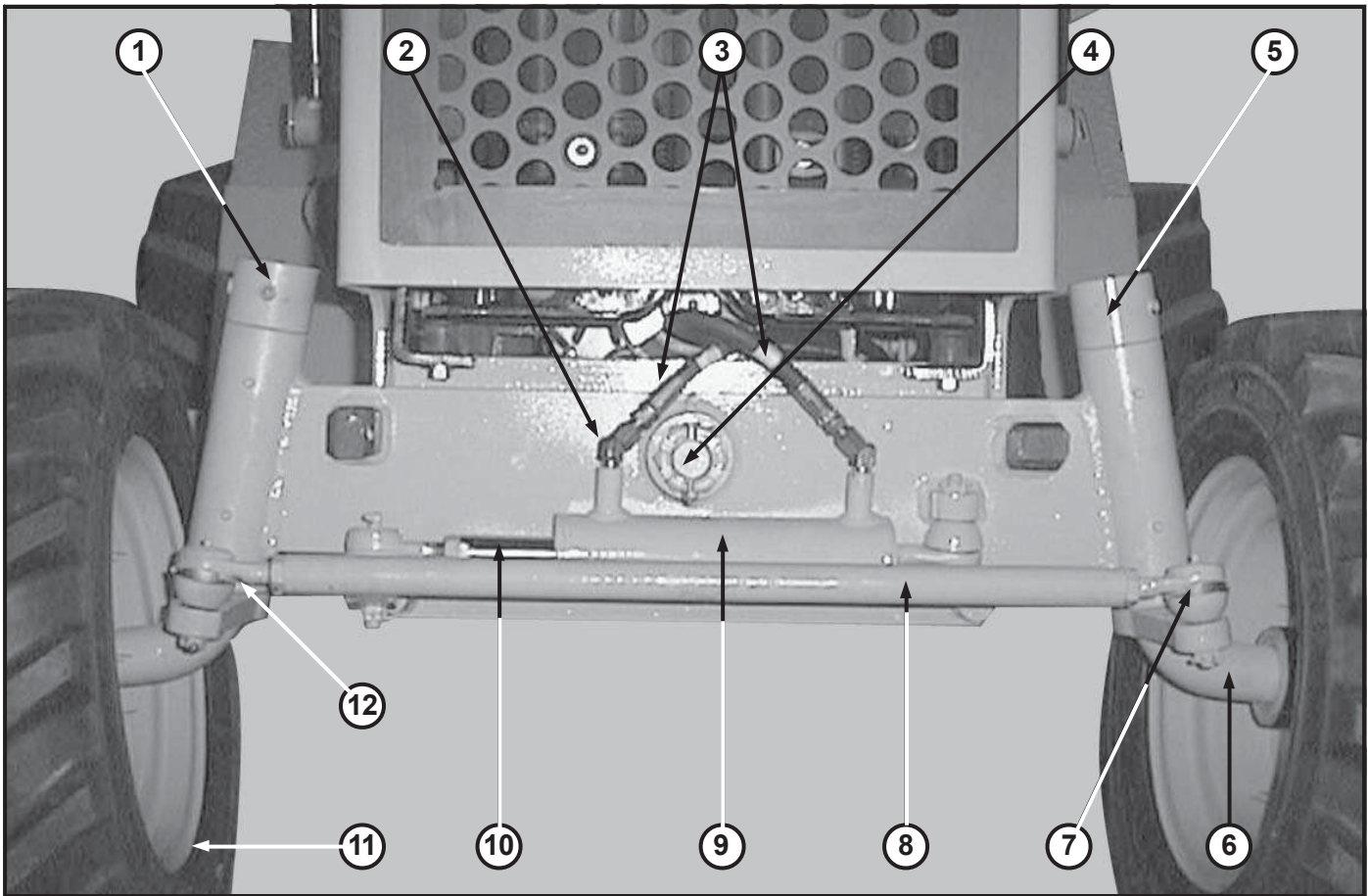
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	14001	1-400.1	Decal, Terramite Large	2
2	12076	12076	2 WD	1
	12077	12077	4 WD	1
3	14101	1-400.101	Decal, T6, 2WD	4
4	14099	1-400.99	Decal, American Flag	2
5	14004	1-400.4	Decal, Stand Clear	4
6	22506	1-25.T6	Arm Cylinder - Lift	2
7	14100	1-400.100	Decal, Pinch Point	2

Four Wheel Drive Front Axle (Bumper Attached) Serial Number 6980222 & After



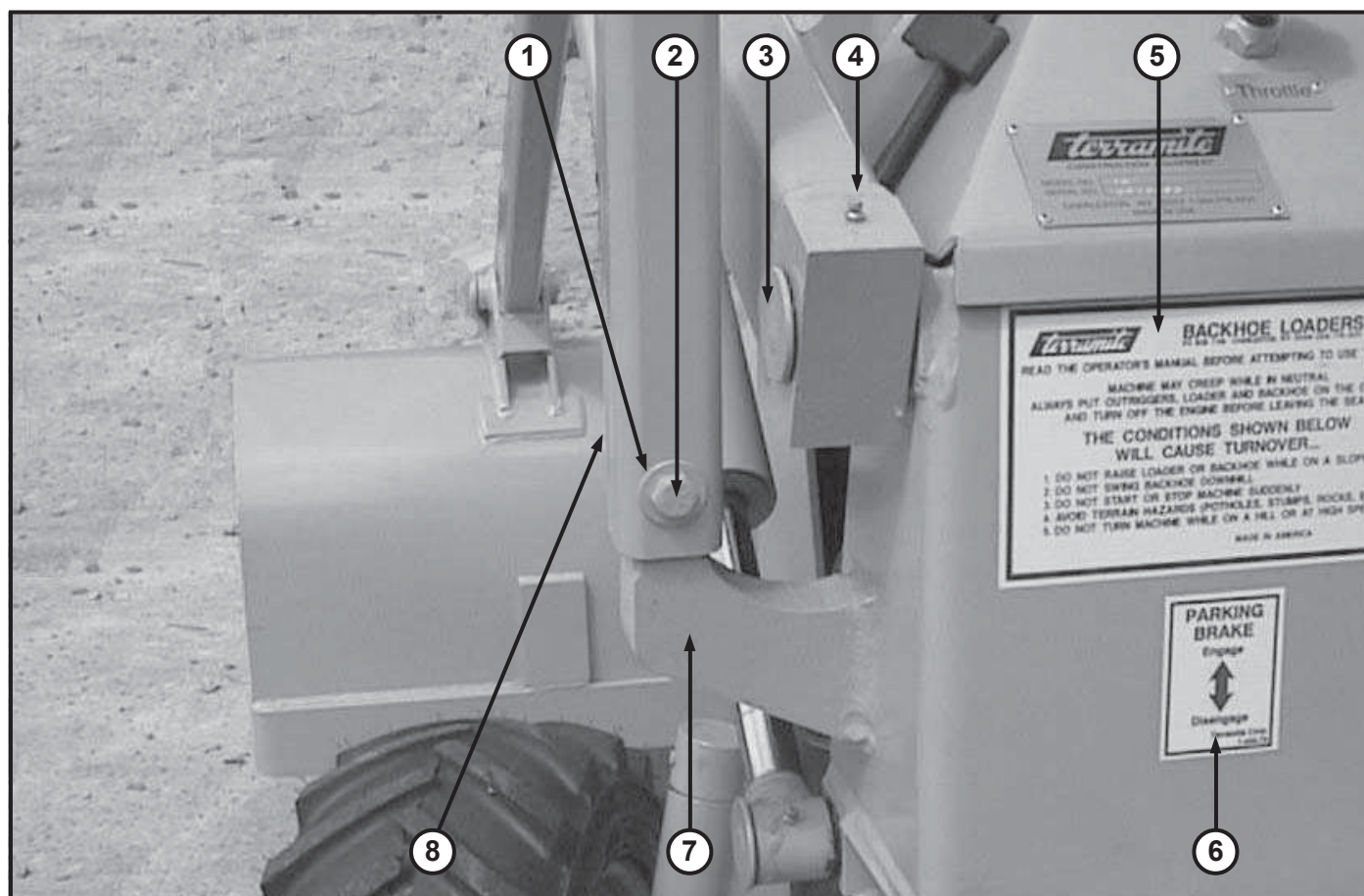
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	22019	22019	Snap Ring, Spindle	2
2	53009	53009	Axle, Weldment w/Bumper	1
3	22021	1B8.48C8	Bolt, 1/2" - 13 x 3" NC Gr 8	2
4	28500	IN8CL	Nut, 1/2" x 13NC Stover B	2
5	53612	53612	Pin, Front Axle Picot 5 1/2" Long	1
6	12001	12001	Bushing, 1 3/4" OD x 1 1/2" ID x 1" L (Not Shown)	1
7	62022	62022	Motor, Front Drive Torque (Not Shown)	2
8	53083	53083	Tie Rod	1
9	22174	22174	Fitting - 1/4" Straight Male to 1/4" Female Swivel 90°	2
10	81002	81002	Cylinder, Steering	1
11	16066	16066	Bumper	1
12	53002	53002	Spindle, w/Drive Motor Housing - Right	1
	53003	53003	Spindle, w/Drive Motor Housing - Left	1
13	53043	3-04.3	Tie Rod Ends	2

Two Wheel Drive Front Axle (Bumper Not Shown)



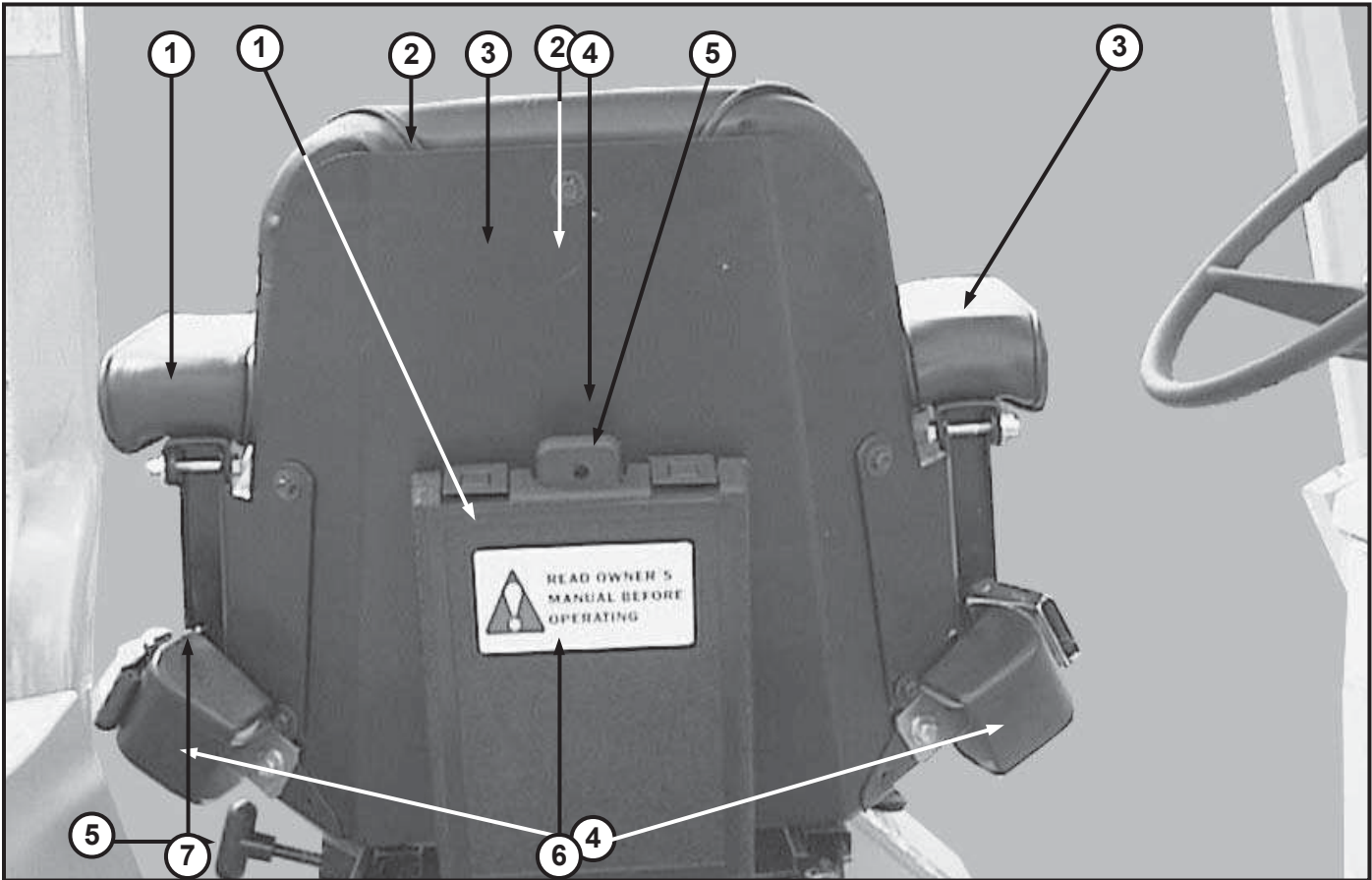
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	21428	S4MPG	Fitting, Grease, 1/4"-28 Straight	32
2	23174	3107.4-4	Fitting - 1/4" Male to 45°, 1/4" Female Swivel	2
3	88465	8-4.65	Hose, 1/4" x 65"	2
4	15407	1-54.05.T6	Pin, Front Axle Pivot 1 1/2" x 7 1/4" L	1
5	53107	3-10.5B.T6	Bushing, Spindle Lock	2
6	53116	3-10R.5	Spindle	2
7	53043	3-04.3	Tie Rod Ends	4
8	53054	3-05.4	Tie Rod	1
9	25811	1-58.T6	Power Steering Cylinder after 1-97	1
10	25803	1-58.3	Power Steering Rod	1
11	51007	1-27.8A	Tire Mounted on Rim Assembly 2WD	2
12	53091	53091	Thrust Bearing	

View from Left Side of 4 Point ROPS Mount (Front Left ROPS Mount Shown)



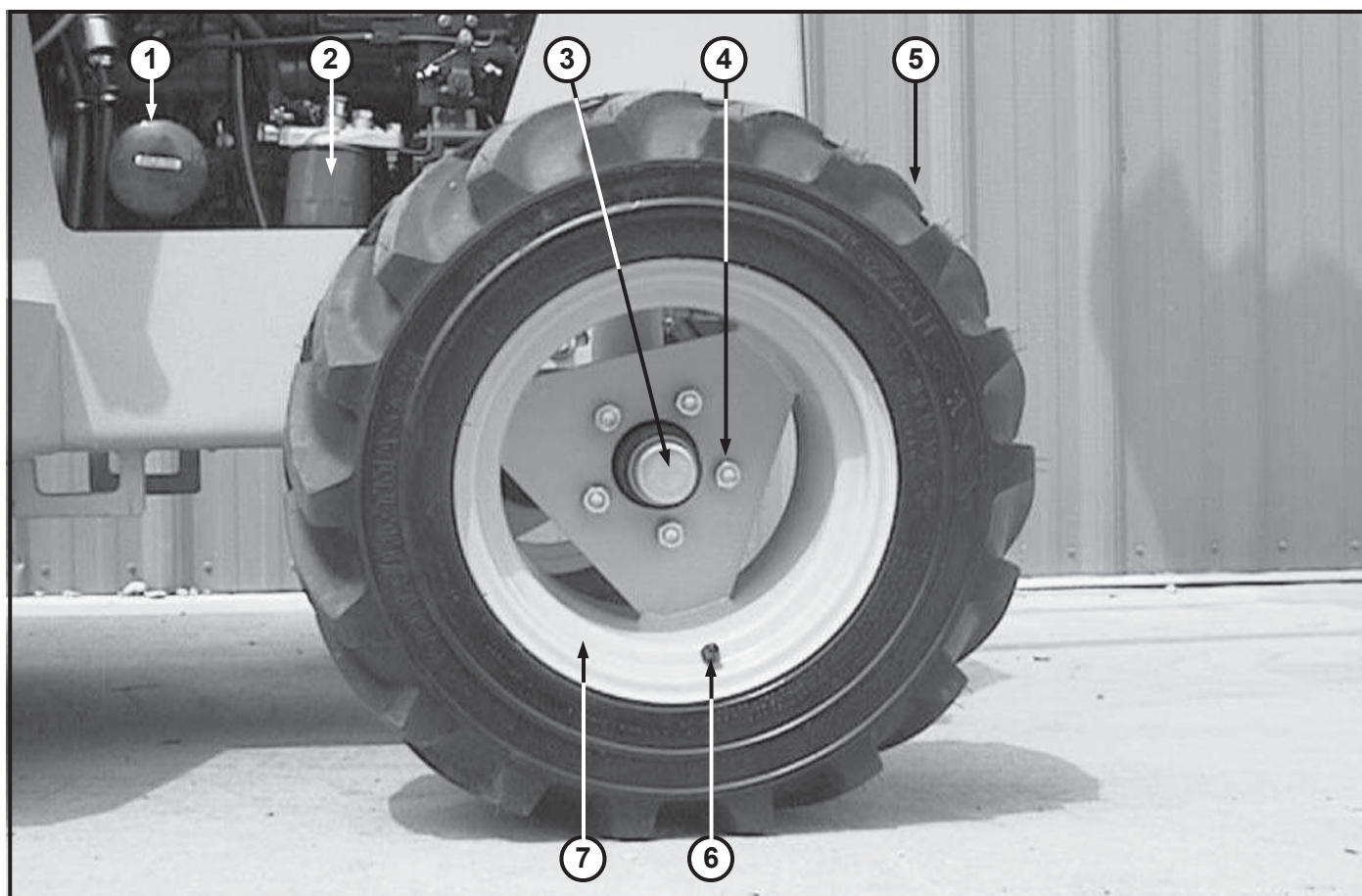
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	28957	1W7F	Washer, 7/16" USS	18
2	28648	1B8.64C8	Bolt, 1/2" x 4" Grade 8	2
3	12300	1-23.T5	Pin, 1" x 6 7/8"	2
4	21428	S4MPG	Fitting, Grease 1/4 -28 Straight	32
5	14203	14203	Decal, Read Operators Manual	1
6	14076	1-400.76	Decal, Parking Brake	1
7	NONE		4 Pt. ROP MF - Weld on Type (FACTORY EQUIPPED)	2
8	28500	1N8CL	Nut, 1/2" x 13NC Stover B (NOT SHOWN)	12

View from Back of Seat



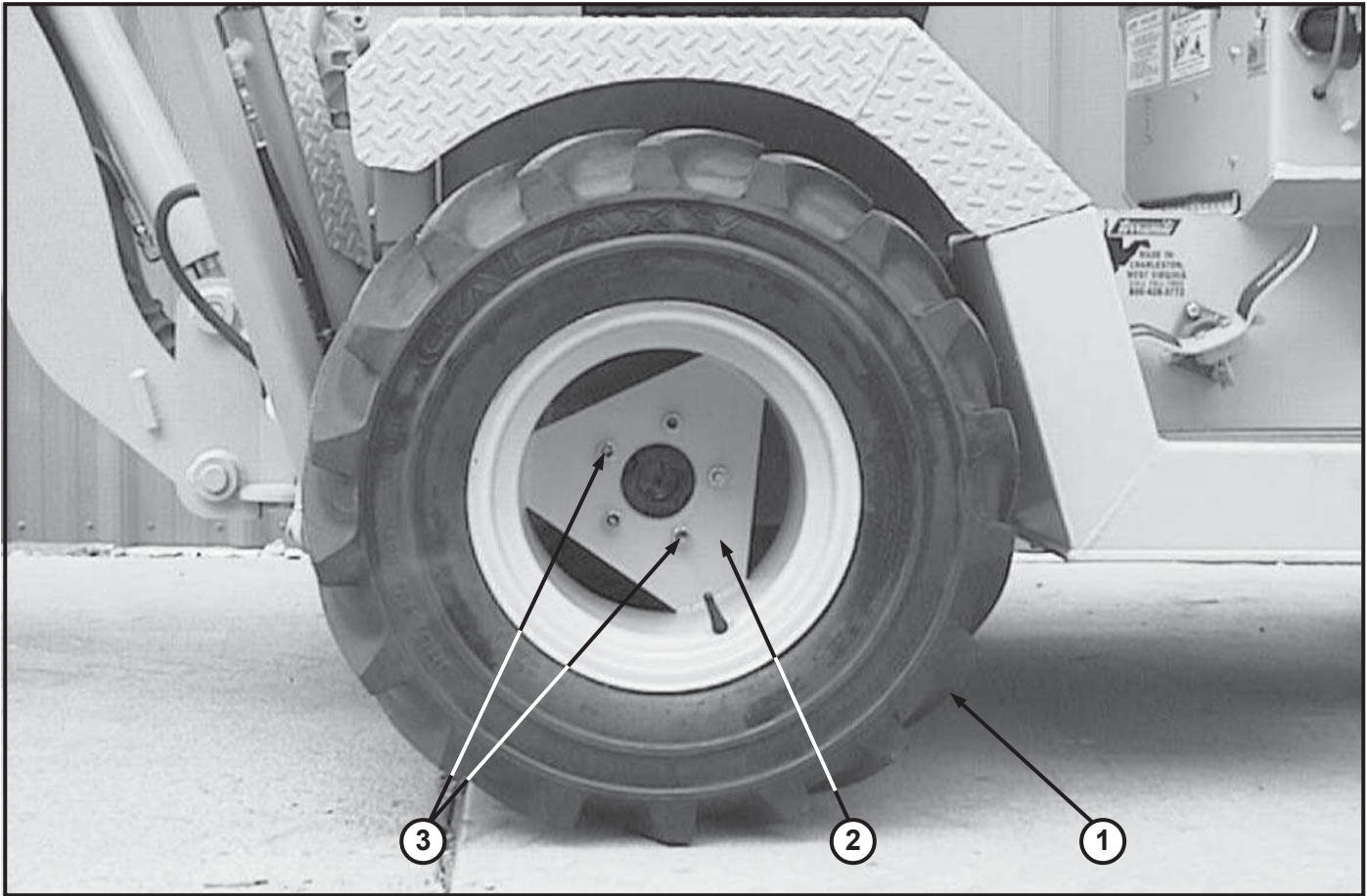
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	11911	Box, Manual, Operator's Seat	1
2	14260	Assembly, Seat, w/Swivel Disc w/Arm, T5D/T6/T9	1
3	11045	Set, Arm Rest, T5C/T5D/T6/T7/T9/Sweeper	1
4	11903	Belt, Seat, T5C/T5D/T6/T7/T9/Sweeper	1
5	14011	Knob, Seat Shaft	1

View of Right Front Tire and Rim



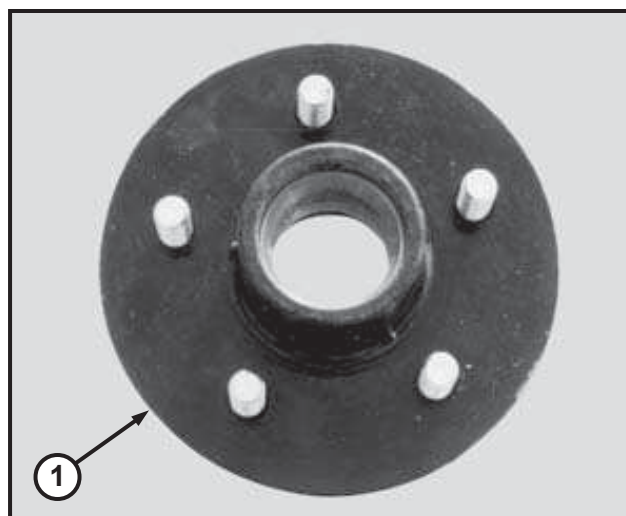
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	22009	2-200.9	Filter, Oil	1
2	22007	D2-200.7C	Filter, Fuel	1
3	53170	3-17	Dust Cap	2
4	28506	1N8FWR	Nut, 1/2" NF Lug	10
5	51275	1-27.5	Tire(s), Front 23 x 10.5 x 12	2
6	51273	1-27.3	Tire Valve	2
7	50017	50017	Rim, Front - 4WD	2
	50017	50017	Rim, Front - 2WD	
8	51019	51019	Tire Mounted on Rim Assembly 2WD	2
	51019	51019	Tire Mounted on Rim Assembly 4WD	

View of Right Rear Tire and Rim



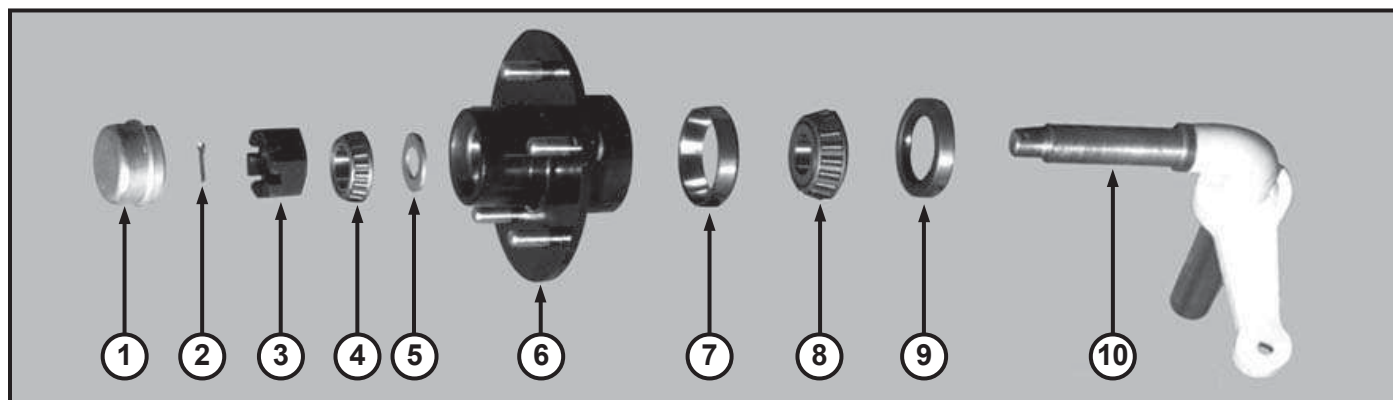
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	51173	1-17.3	Tire, Rear HF 31" x 15.5" x 15"	2
2	50006	1-18.4	Rim	2
3	28506	1N8FWR	Nut, 1/2" NF Lug	10
4	50018	1-17.3A	Tire and Rim Assembly, Rear - HFT	2

Front Wheel Hubs Two Wheel Drive



ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	53137	3-13.6	Hub, 5 on 4 after 6-1-96	2

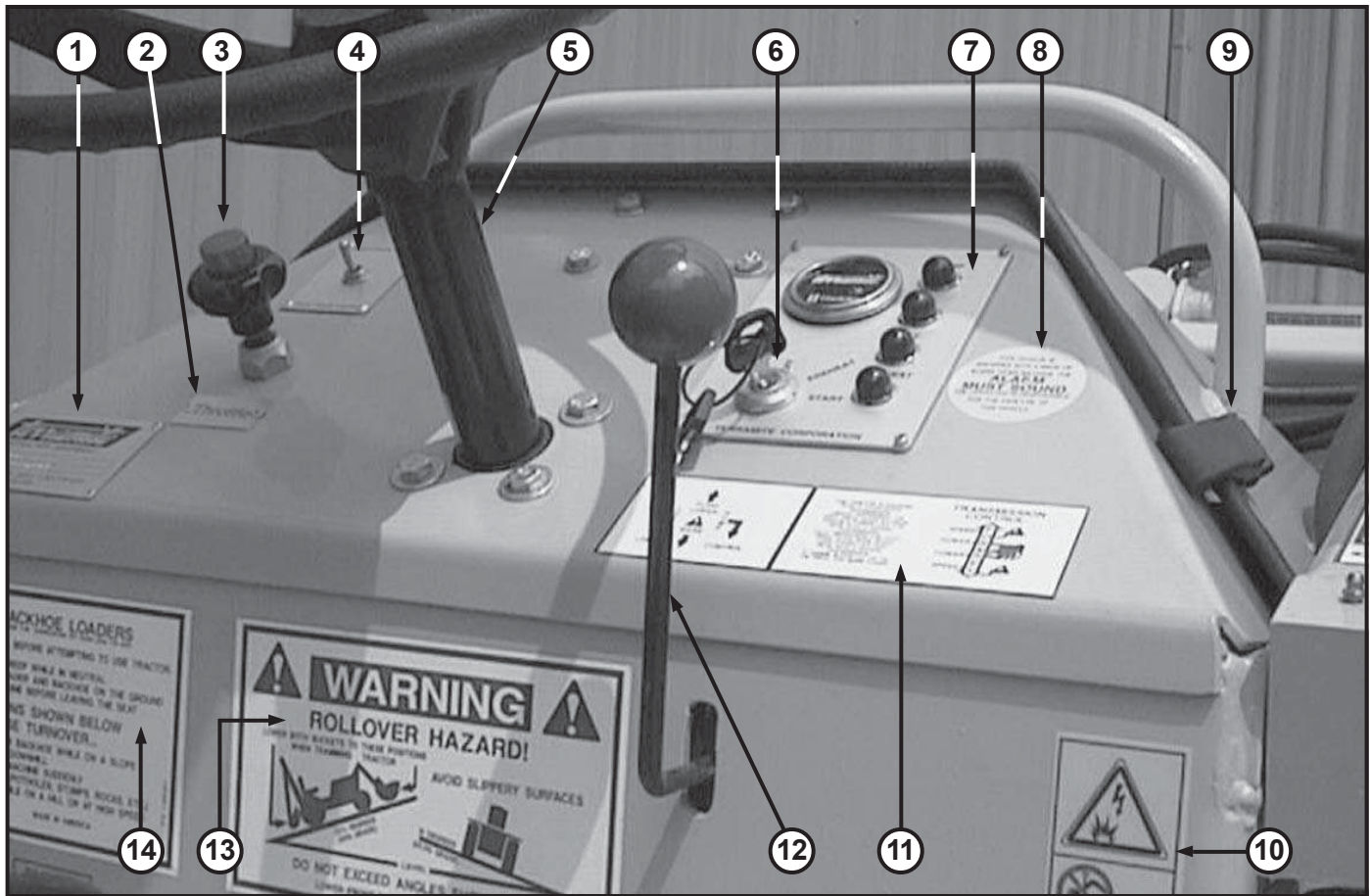
Hub Assembly and Spindle Two Wheel Drive



NOTE: THESE PART NUMBERS USED ON MACHINES BUILT AFTER 6-96. WHEN ORDERING, SUPPLY SERIAL NUMBER OF YOUR MACHINE.

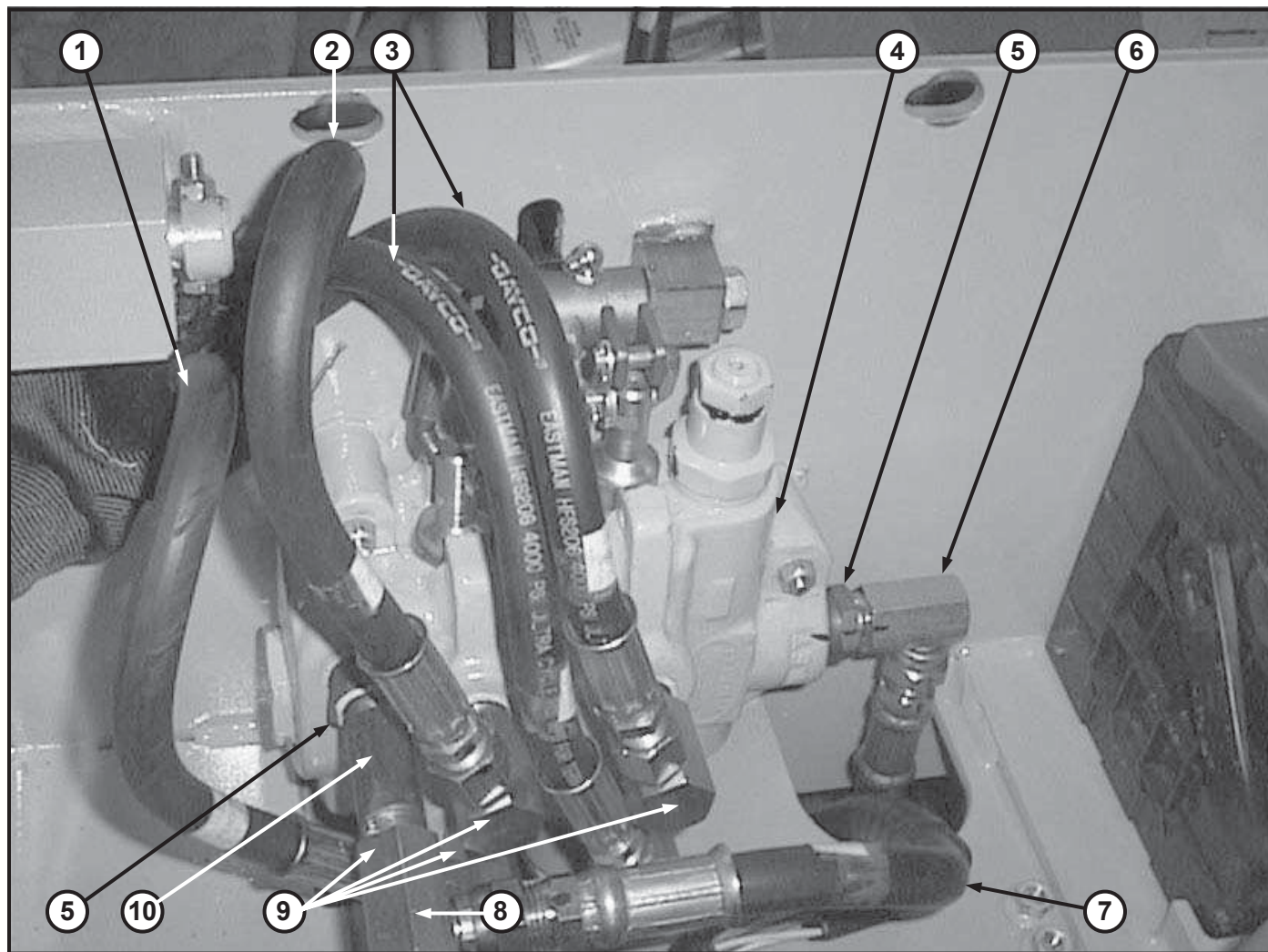
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	53170	3-17	Dust Cap	1
2	53160	3-16	Cotter Pin	1
3	53150	3-15	Nut	1
4	53125	3-12.5	Bearing, Outer	1
5	53140	3-14	Washer	1
6	53136	3-13.6	Hub, 5 on 4 after 6-1-96, kit	1
7	53124	3-12.4	Race, Inner	1
8	53123	3-12.3	Bearing, Inner	1
9	53111	3-11.1	Seal	1
10	53116	3-10R.5	Spindle	1

View from Operator Position Facing Loader



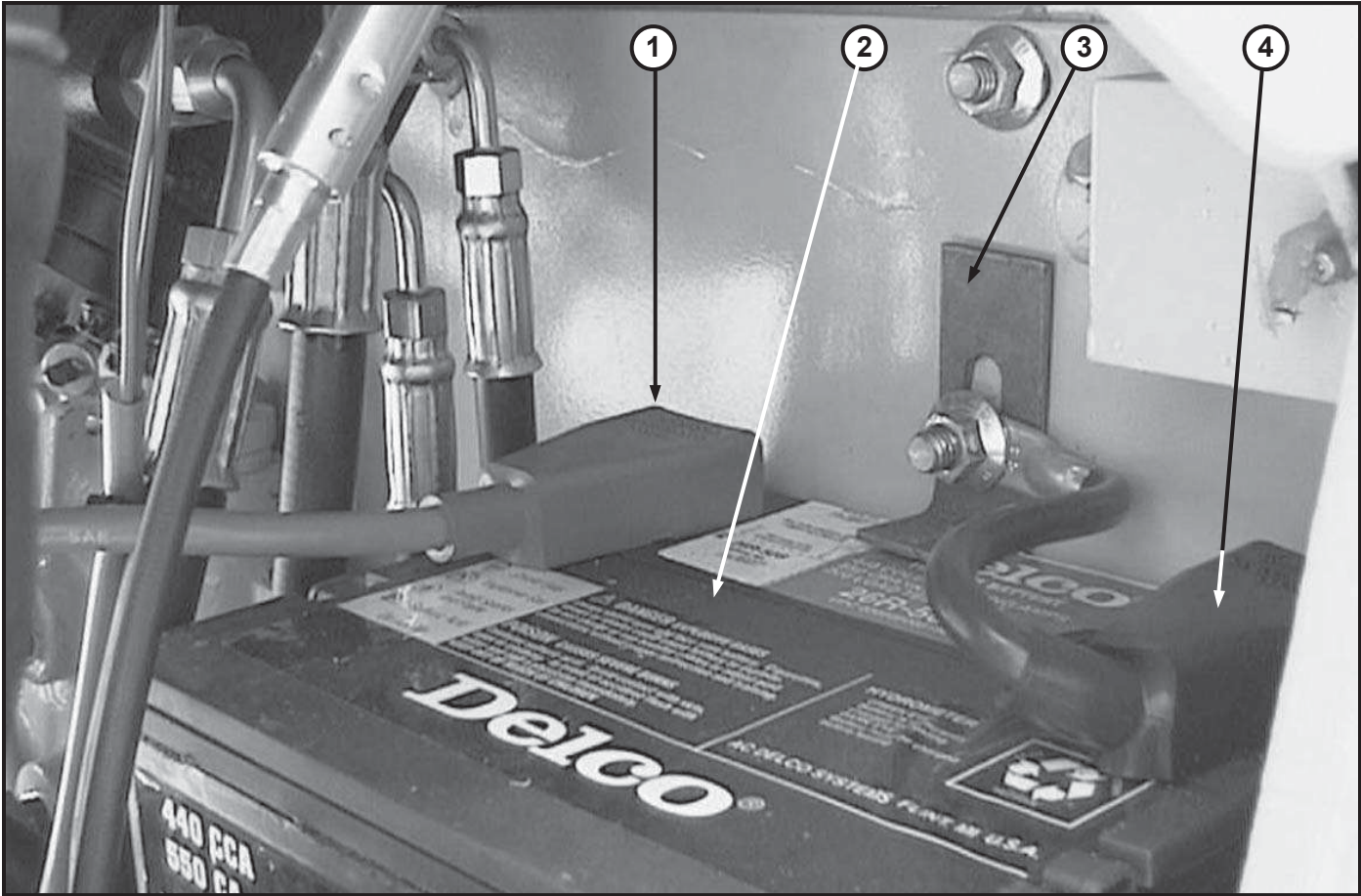
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	14012	1-400.12	Decal Plate, Serial Number	1
2	14105	1-400.105	Decal Plate, Throttle	1
3	13140	13140	Throttle Cable	1
4	14104	1-400.104	Decal Plate, Work Lights F&R	1
5	15106	1-51.6	Steering Gear	1
6	70335	70335	Ignition Switch (New Style) Photo shows Old Style	1
7	71016	7-10.1P.T6	Wiring Harness, Dash	1
8	14026	14026	Decal, Alarm Must Sound	1
9	15542	1-55.42	Hood Latch	2
10	14053	1-400.53	Decal, Call Before You Dig	1
11	14204	14204	Decal, Controls	1
12	13072	13072	Front Wobblestick Handle	1
13	14202	14202	Decal, Warning Rollover Hazard	1
14	14203	14203	Decal, Read Operators Manual	1

View of Loader Valve Hoses and Fittings from Right Side of Engine Compartment Under Hood Assembly



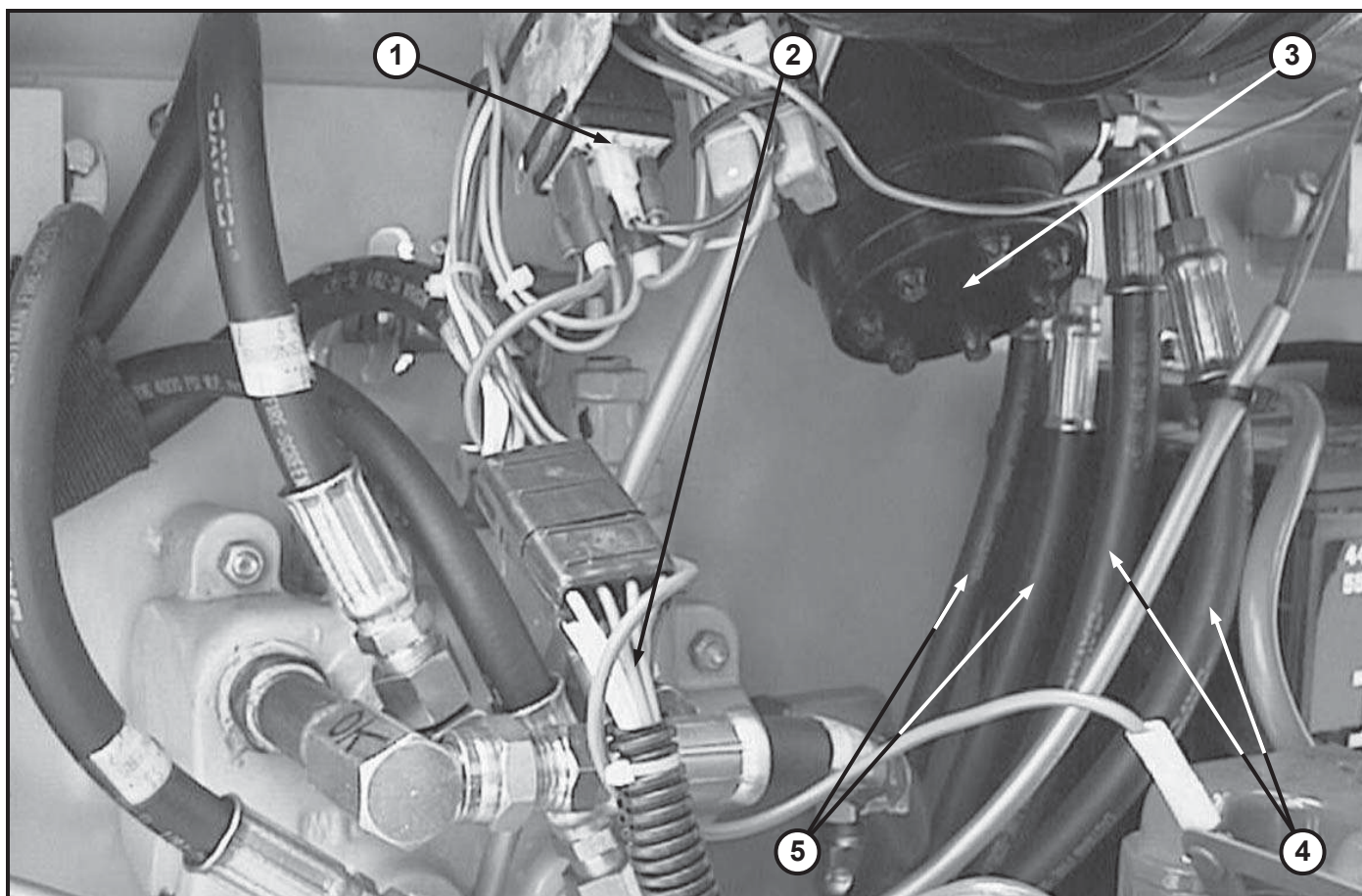
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	88698	8-6.98	Hose, $\frac{3}{8}$ " x 98"	1
2	88678	8-6.78	Hose, $\frac{3}{8}$ " x 78"	1
3	88675	8-6.75	Hose, $\frac{3}{8}$ " x 75"	1
4	85015	1-40D	Front Valve	1
5	25128	2F4	Fitting, $\frac{3}{4}$ " x $\frac{1}{2}$ " FM Reducer	2
6	21978	2107.8-8	Fitting, $\frac{1}{2}$ " M 90° x $\frac{1}{2}$ " F. Swivel	1
7	88831	88831	Hose, $\frac{1}{2}$ " x 31"	1
8	22278	2207.8-8	Fitting, $\frac{1}{2}$ " F 90° x $\frac{1}{2}$ " F Swivel	1
9	20786	2107.8-6	Fitting, $\frac{1}{2}$ " MP x $\frac{3}{8}$ " F. Swivel	4
10	20010	2F7	Fitting, Nipple $\frac{1}{2}$ " x 3"	1
11	84007	1-40A-T6	Valve, Front with Fittings (Assembled - Hoses not included)	1

View of Battery from the Left Side of Engine Compartment



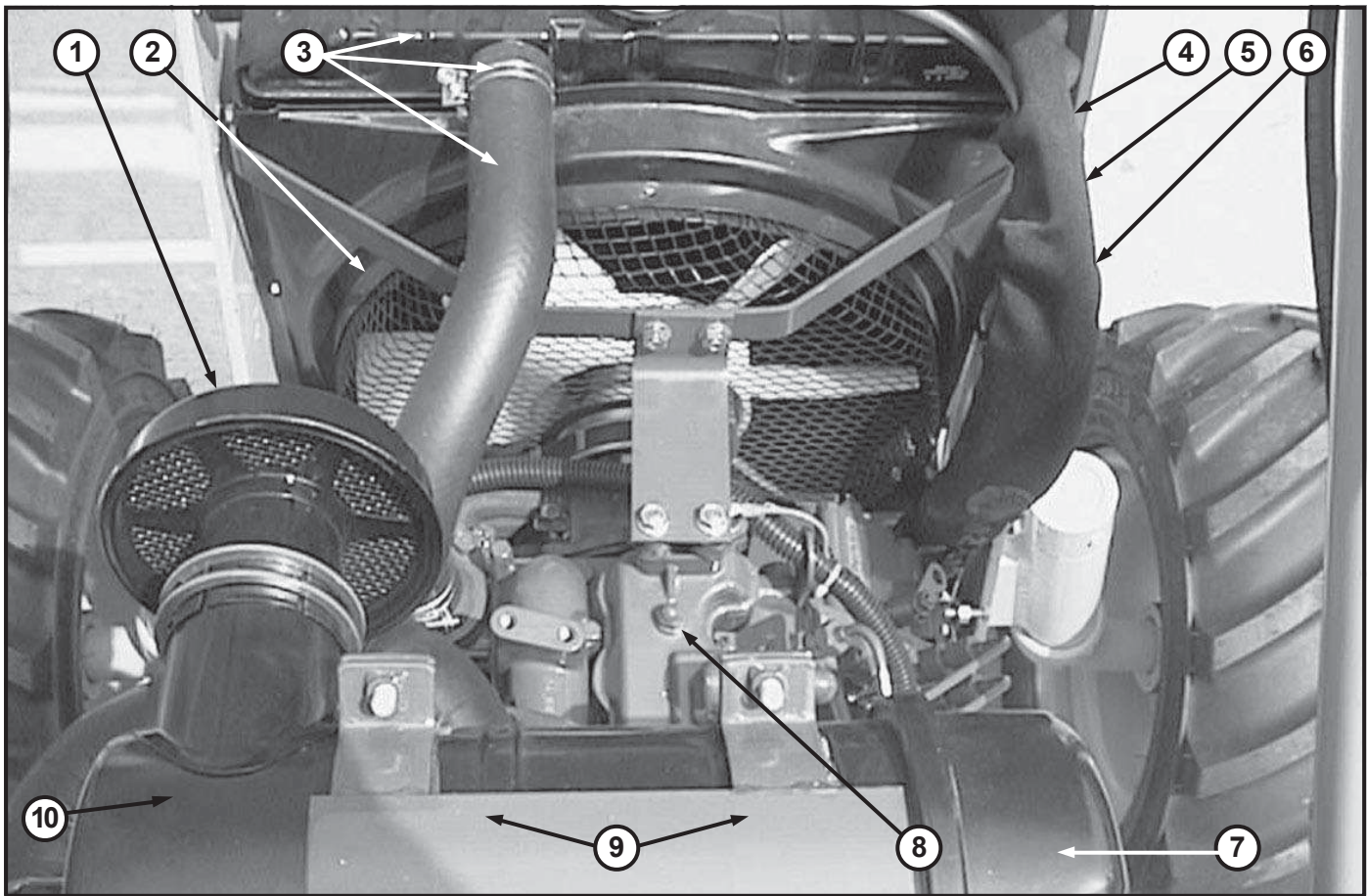
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	73230	7-32.3M	Cable, Battery Starter (Red)	1
2	77022	7-02.2	Battery	1
3	15033	7-02.5	Battery Hold Down Bracket	1
4	72028	7-30M	Cable, Battery Ground (Black)	1

View of Dash Wiring Harness from Right Side of Engine Compartment



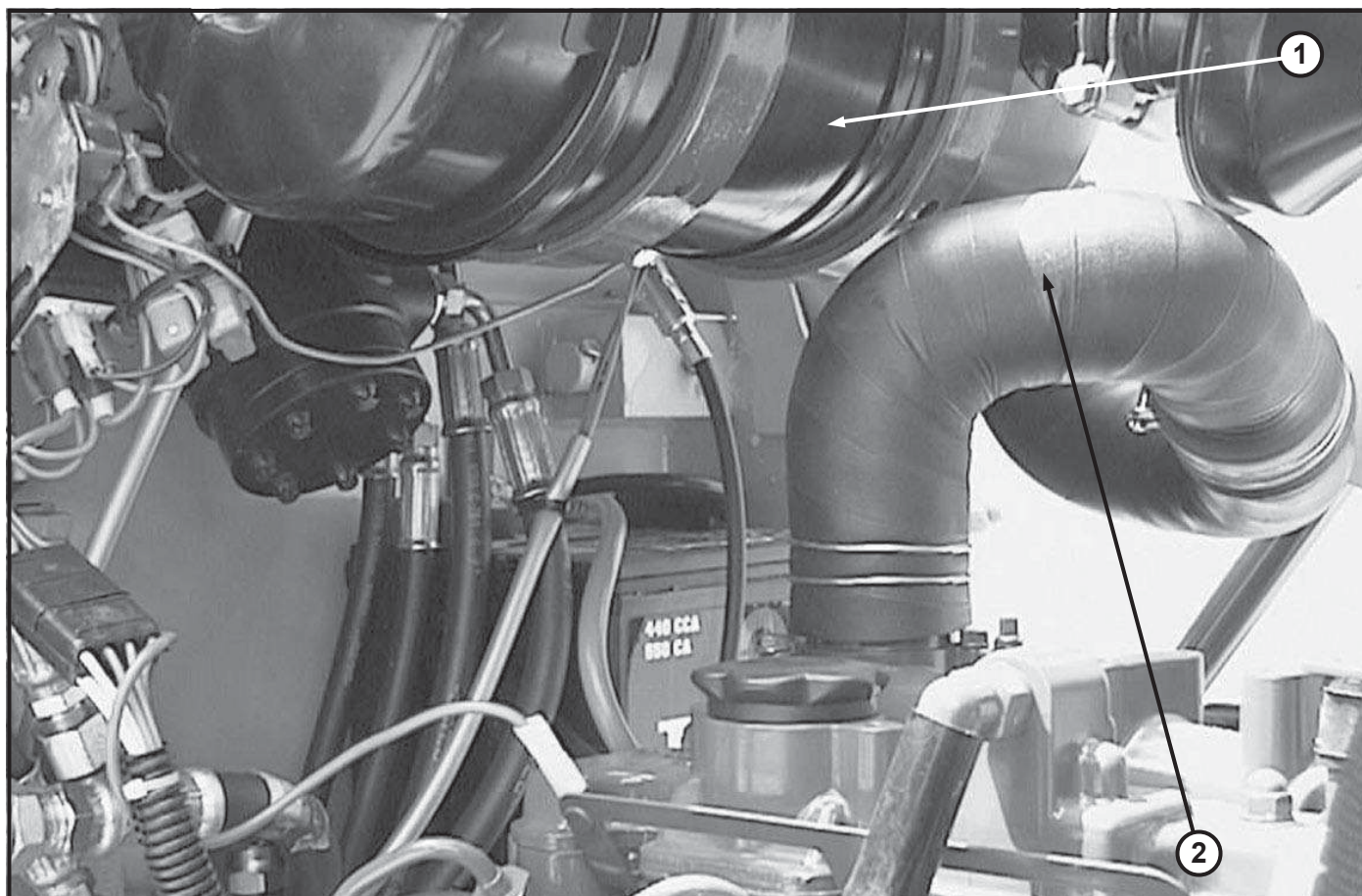
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	71016	7-10.1P.T6	Wiring Harness, Dash	1
2	71017	7-10.1D.T6	Wiring Harness, Engine 42 Amp.	1
	72013	72013	Wiring Harness, Engine 55 Amp. (After Engine SN 0909008C)	1
3	15106	1-51.6	Steering Gear	1
4	88658	8-6.58	Hose, $\frac{3}{8}$ " x 58"	2
5	88465	8-4.65	Hose, $\frac{1}{4}$ " x 65"	2

View of Air Cleaner and Radiator from Operator Position



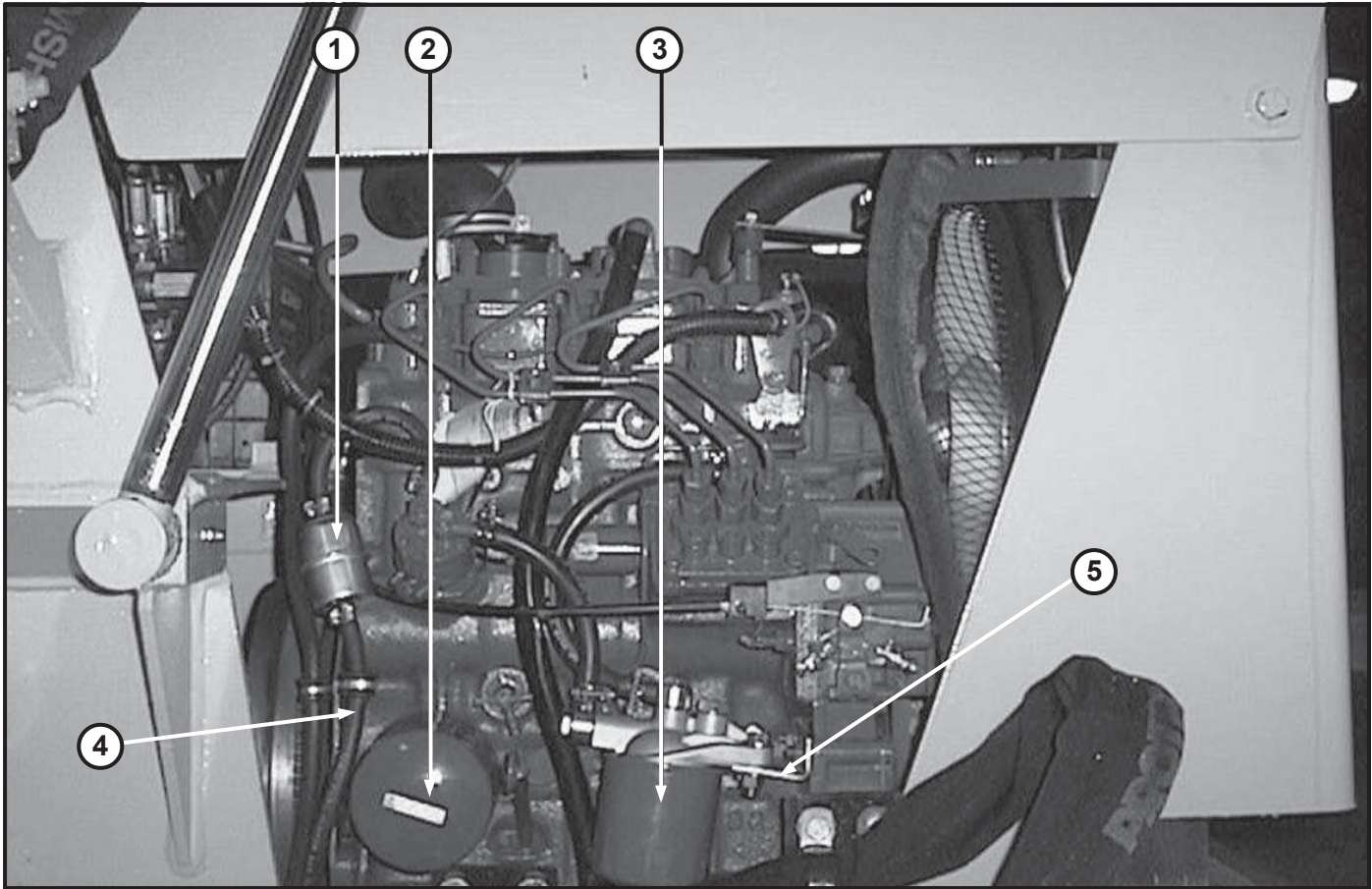
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	11782	P.ZZ7B802	Air Cleaner Rain Cap	1
2	11752	P.ZZ7A502	Fan Assembly	1
3	11766	P.ZZ7B606	Radiator Assembly	1
4	88831	88831	Hose, 1/2" x 31" (Inside Hose Wrap)	1
5	88100	8-8.100	Hose, 1/2" x 93" (Inside Hose Wrap)	1
6	88999	8-HOSE.WRAP	Hose Wrap 3' (Sold Per Foot)	
7	22011	2-200.11	Filter, Air (Included in 22022)	1
8	40047	1-100.23A	Engine Assembly, 31.5 hp. Perkins 103.15	1
9	22022	P.ZZ7A806	Air Cleaner Base Assembly	1
10	38185		Either Decal	

View of Under Side of Air Cleaner



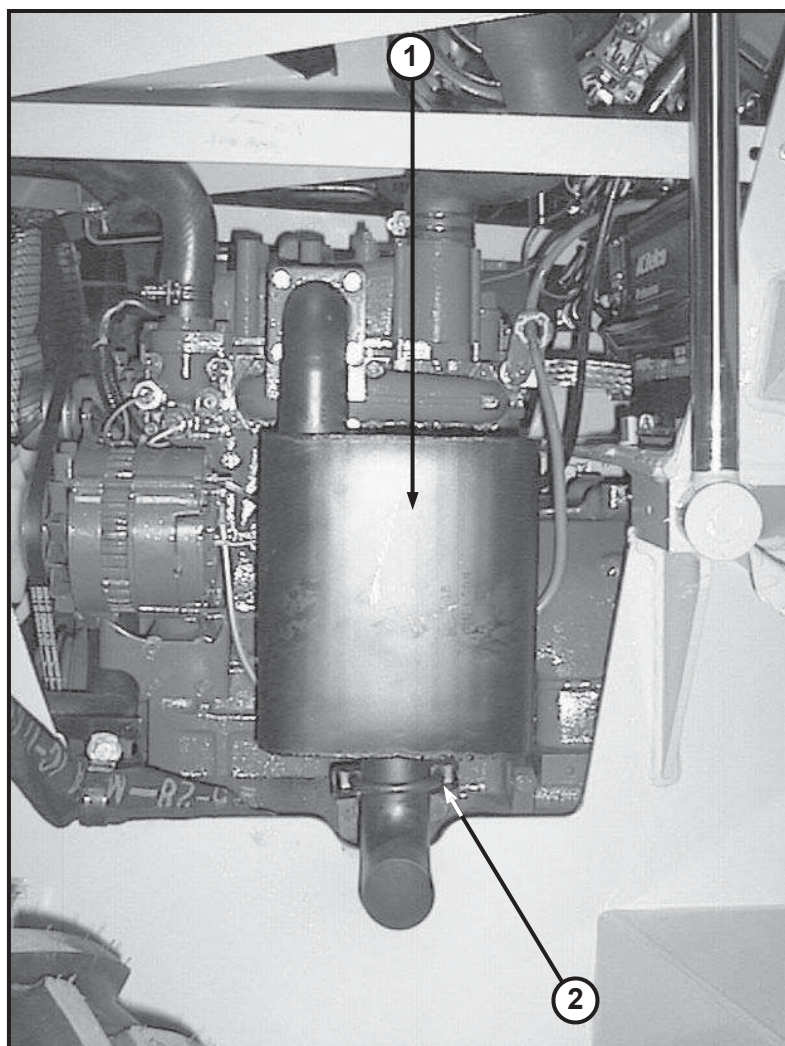
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	22022	P.ZZ7A806	Air Cleaner Base Assembly	1
2	22068	22068	Hose, Air Cleaner	1

View from Right Side of Engine Compartment



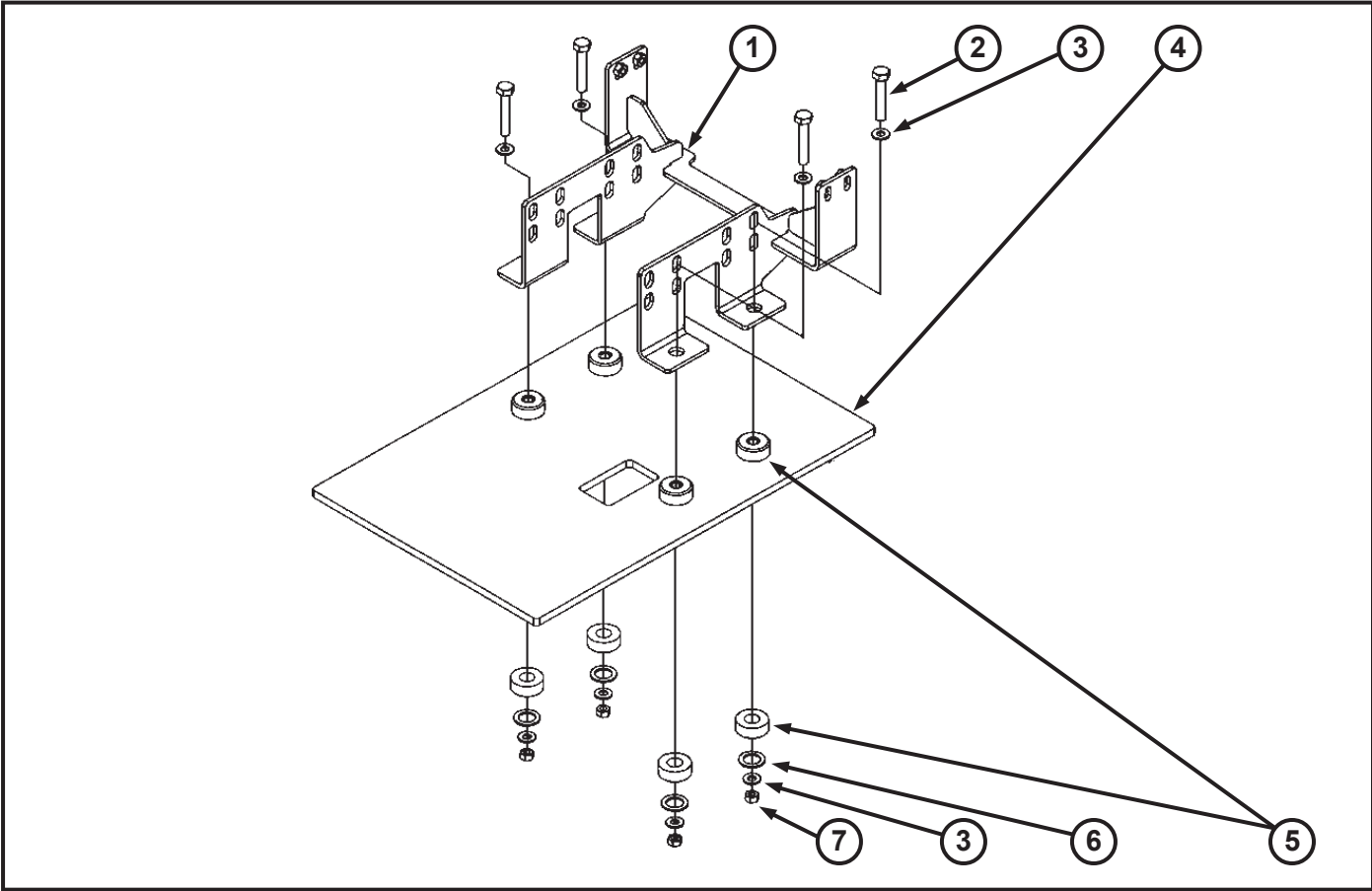
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	15506	15506	Filter, Fuel $\frac{5}{16}$ " Line	1
2	22009	2-200.9	Filter, Oil	1
3	22007	D2-200.7C	Filter, Fuel	1
4	84000	84000	Hose, Fuel $\frac{1}{4}$ " Line	1
	80033	80033	Hose, Fuel $\frac{5}{16}$ " Line	1
5	10267	10267	Bracket, Fuel Filter	1

View from Left Side of Engine Compartment (After March 31, 1998)



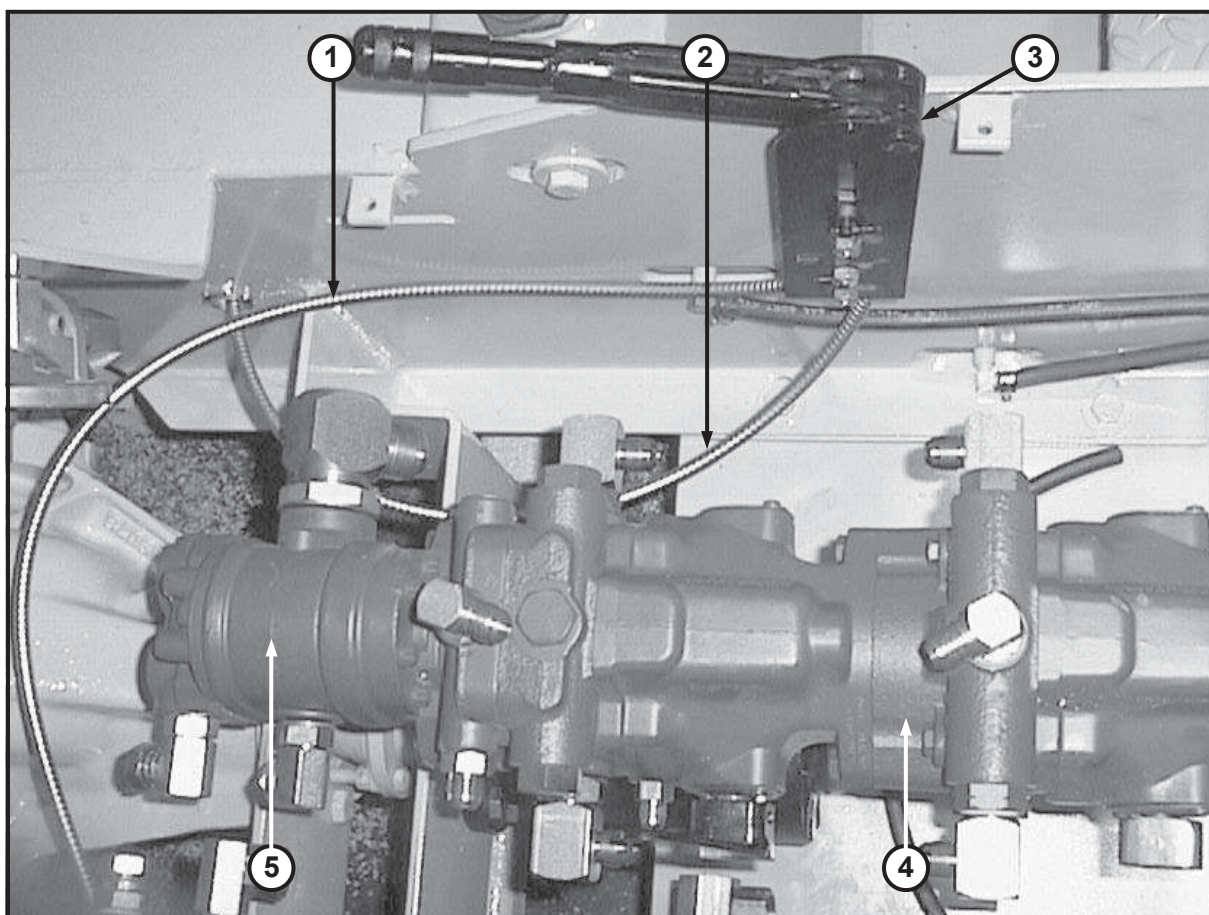
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	43701	43701	Muffler	1
2	16137	16137	Bracket, Muffler	1

Exploded View of Energy Isolating Engine Mount (After Serial Number 6980316)



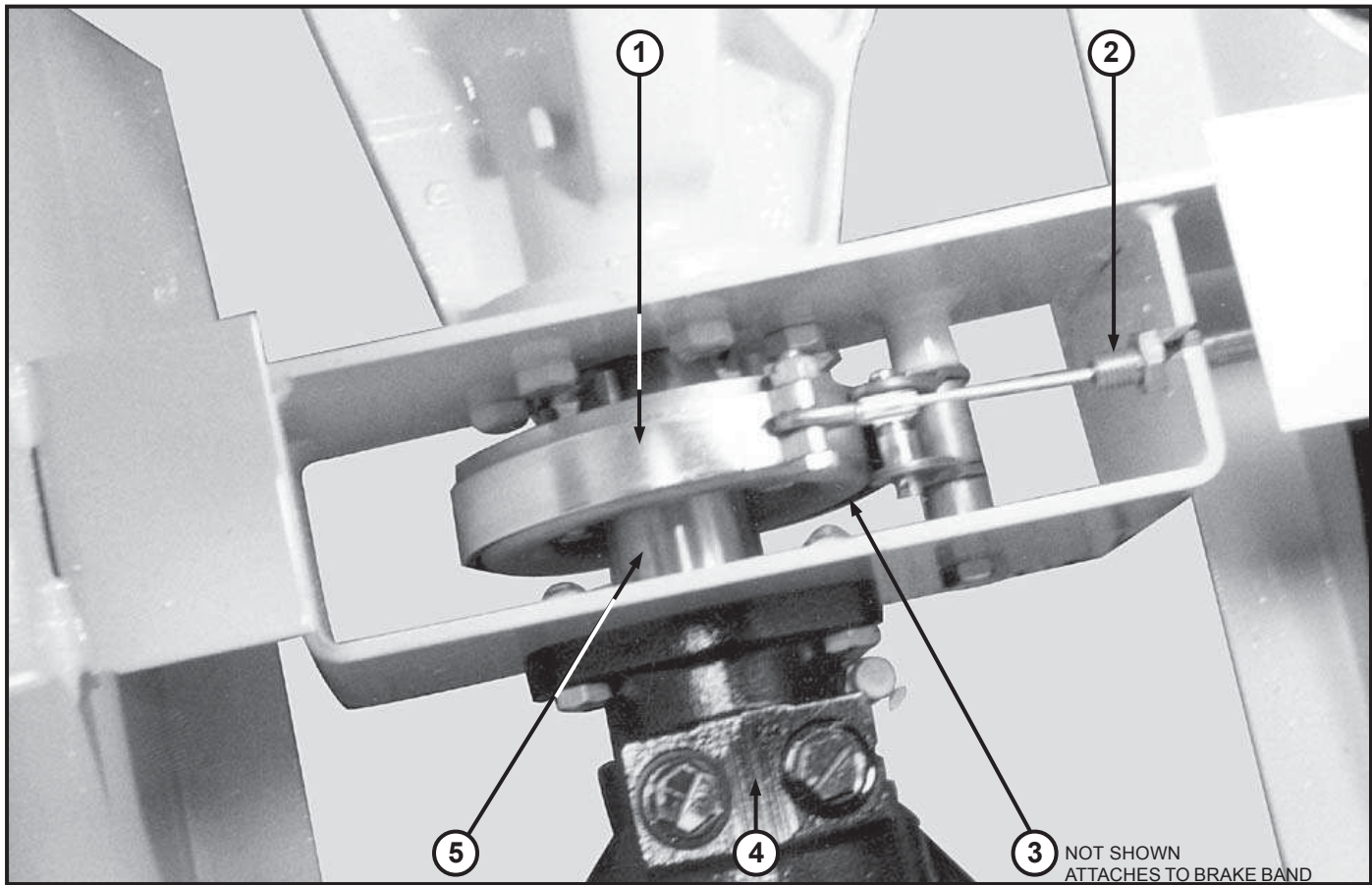
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	40010	40010	Engine Mount	1
2	22021	1B8.48C8	Bolt, 1/2" - 13 x 3" NC Gr 8	4
3	28957	1W7F	Washer, 7/16" USS	8
4	16061	16061	Plate, Engine	1
5	48001	48001	Rubber Motor Mount	4
6	22023	1W12F	Washer, 3/4" Flat	4
7	28500	1N8CL	Nut, 1/2" x 13NC Stover B	4

View from Top of Transmission Assembly



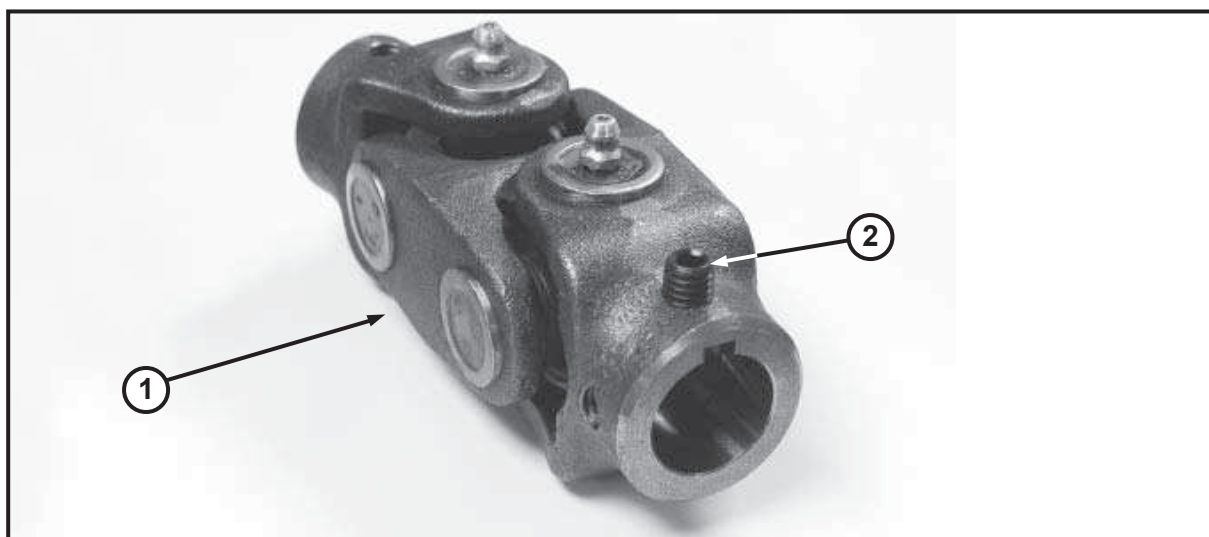
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	13021	13021	Cable, Brake (Long) (SN 980506 and After)	1
2	13020	13020	Cable, Brake (Short) (SN 980506 and After)	1
3	13001	13001	Brake Lever (SN 980506 and After)	1
4	64010	6-00.7	Transmission, Tandem Pump 4WD	1
	64011	6-00.8	Transmission, 2WD	1
5	66007	6-00.4.7	Pump, Double 2WD & 4WD	1

Top View of Parking Brake Assembly (Prior to SN 6980507)



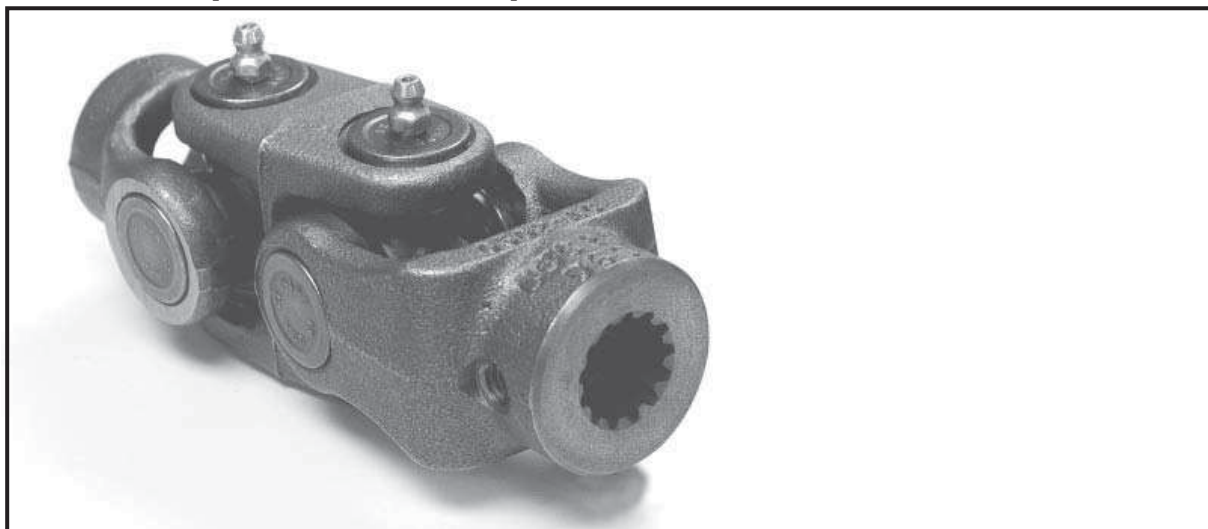
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	55620	5-62M	Brake Band	1
2	55606	5-60.6	Brake Cable	1
3	55613	5-61.3DA	Brake Off Set Link Not Shown - Attaches to Brake Band	1
4	64003	4-00.3	Drive Motor Torque	1
5	51800	1-80	Drive Motor Flange	1

Drive Shaft Coupler for the 2 WD



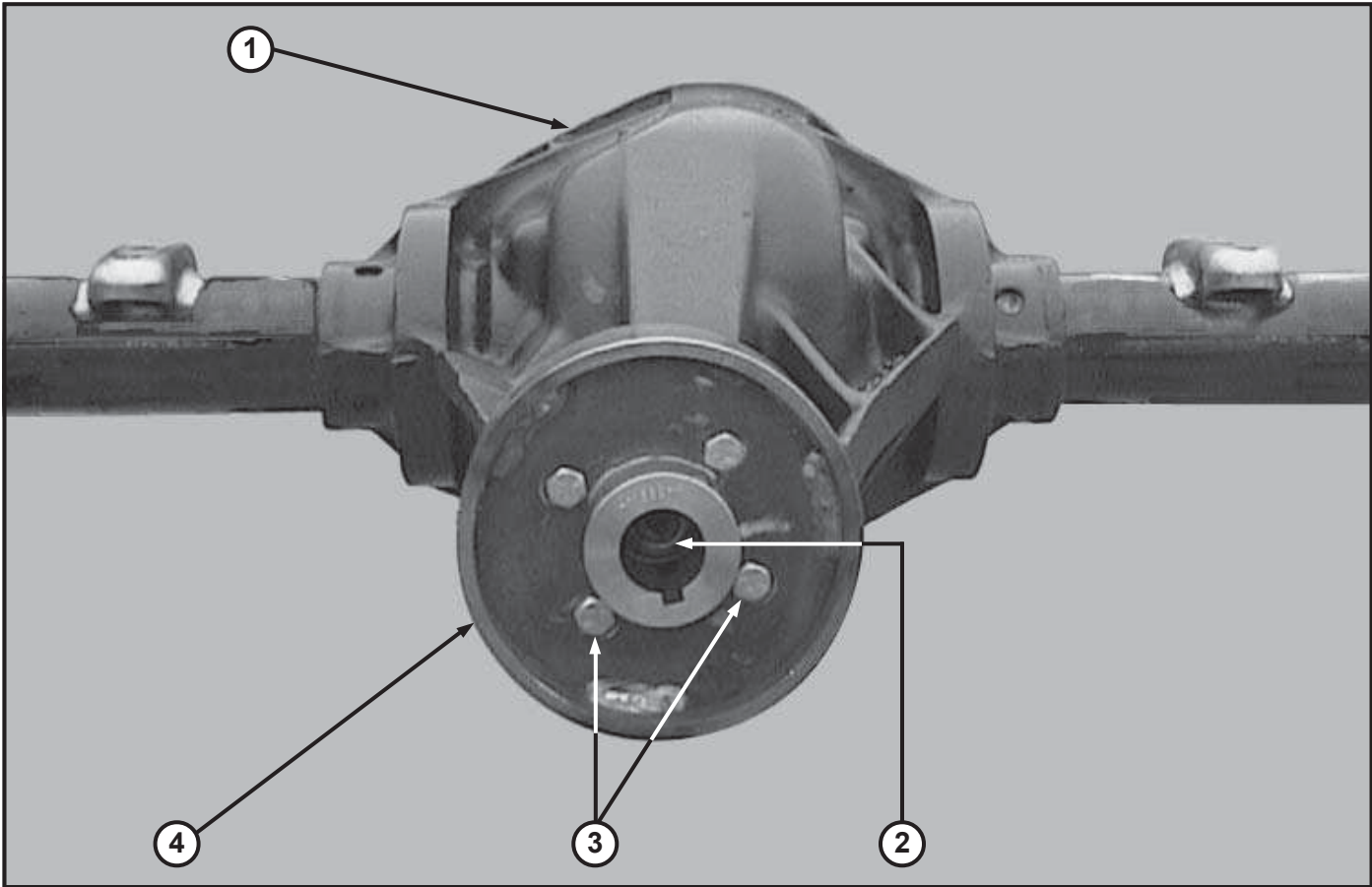
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1			Drive Shaft Coupler - 2 WD	1
2	26500	26500	Set Screw	1

Drive Shaft Coupler/13 Tooth Spline for the 4 WD



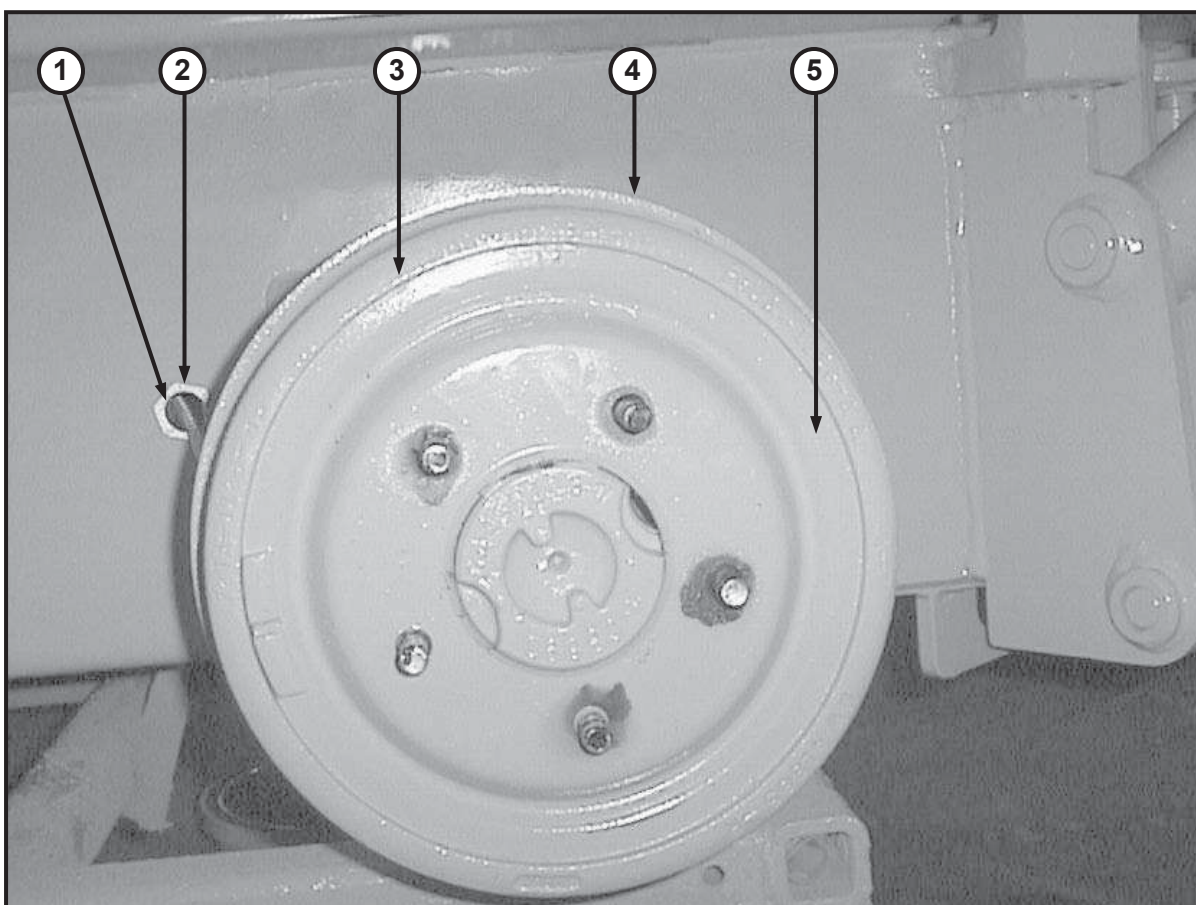
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	60001	60001	Drive Shaft Coupler - 2 WD	1
2	26500	26500	Set Screw	1

View from Front of Rear Axle - Parking Brake Assembly (Prior to SN 6980507)



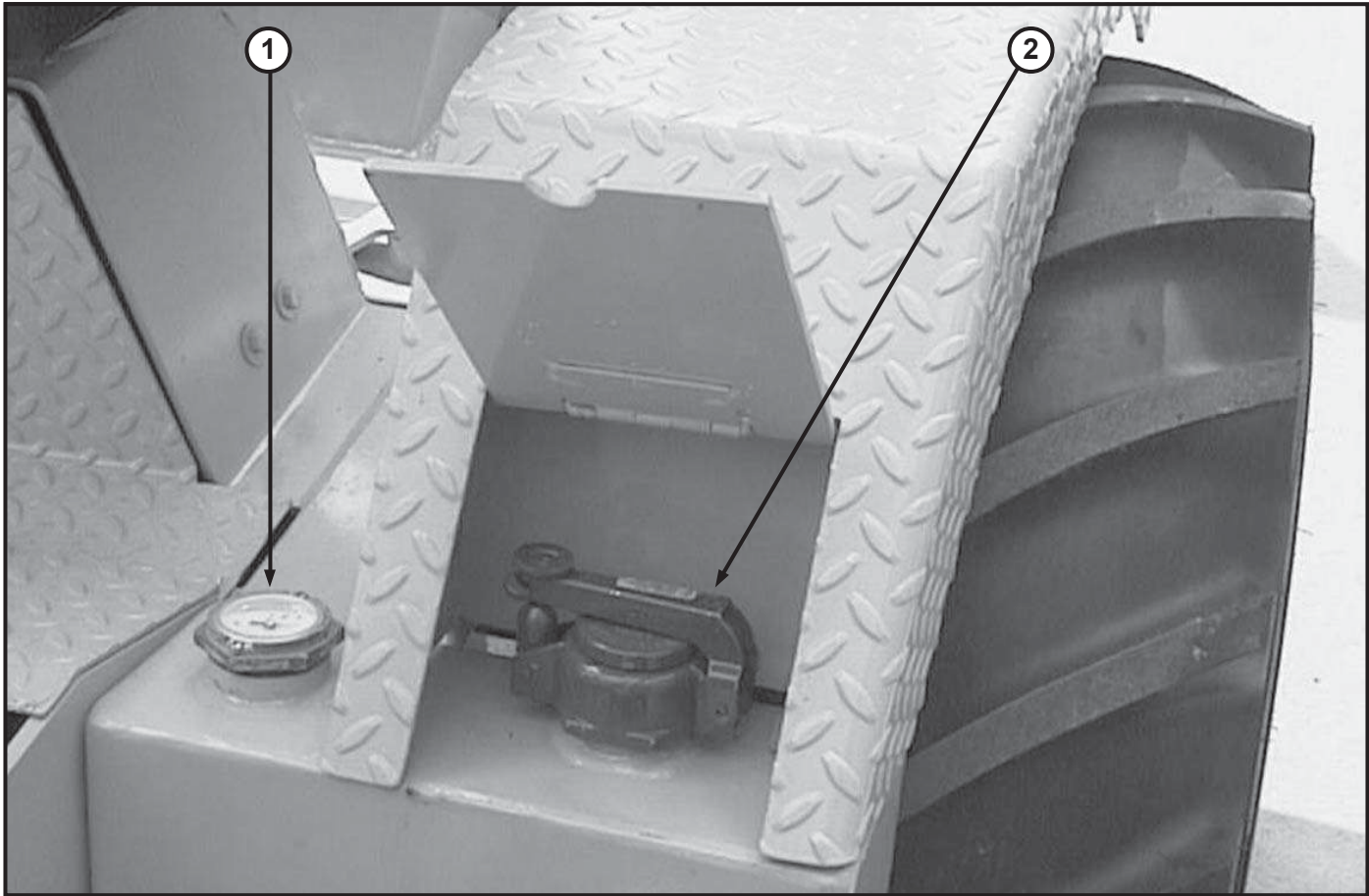
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	55004	5-00.4	Rear Axle	1
2	51800	1-80	Drive Motor Flange	1
3	26288	1B6.28F8	Bolt, 3/8" x 1 3/4" NF GR8	4
4	57034	57034	Brake Drum	1

View from Left Side of Rear Axle - Drum Brake (After SN 6980506)



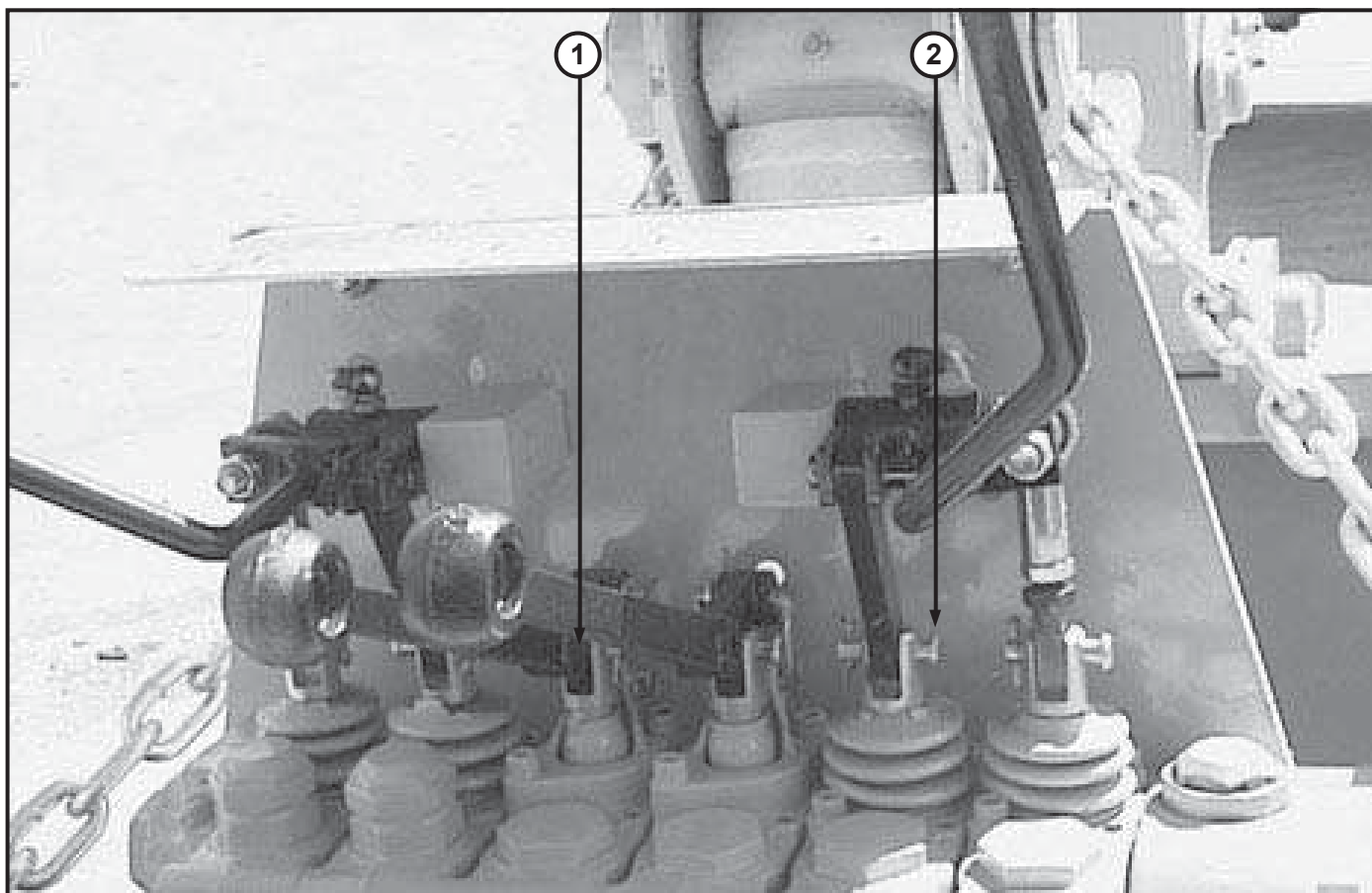
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	22056	SCR.NIPPLE.INS	Chase Nipple $\frac{3}{4}$ "	2
2	22057	SCR.NIPPLE.NUT	Chase Nipple Nut $\frac{3}{4}$ "	2
3	55000	55000	Axle, Rear w/Brakes Installed	1
4	55002	55002	Brake Shoe Assembly RH (Not Shown)	1
	55003	55003	Brake Shoe Assembly LH (Not Shown)	1
5	55001	55001	Brake Drum	2

View from Left Side of Fuel Tank



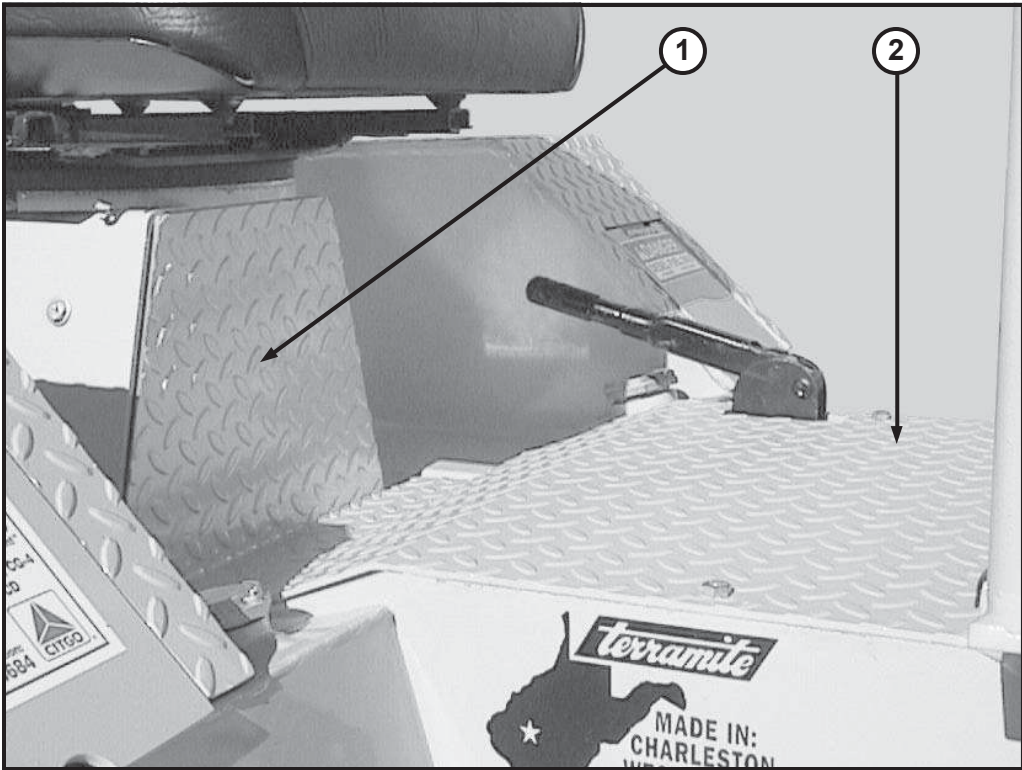
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	11299	D735	Gauge, Fuel	1
2	15005	1-28.4	Cap, Safety Fuel, Diesel Green	1

View from Right Side of Hydraulic Tank

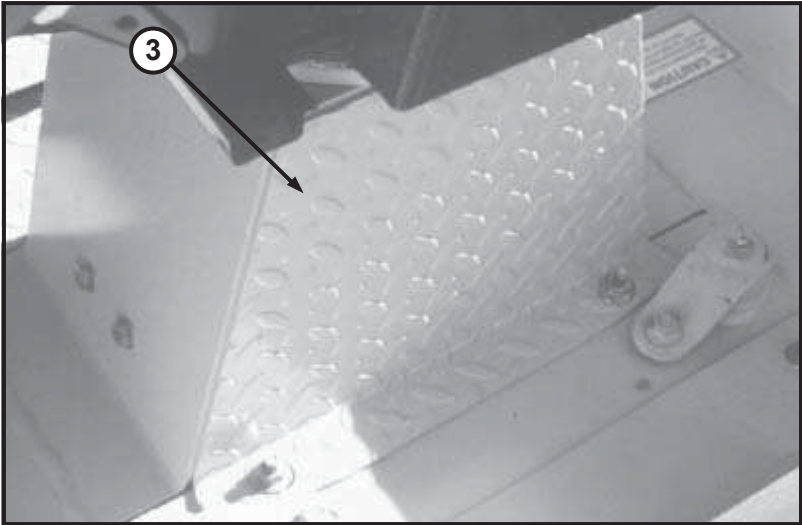


ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	22206	2-206	Cap, Hydraulic Filler Breather	1
2	21283	1-28.3	Gauge, Hydraulic	1

View of Deck Lid In Front of Operator Seat

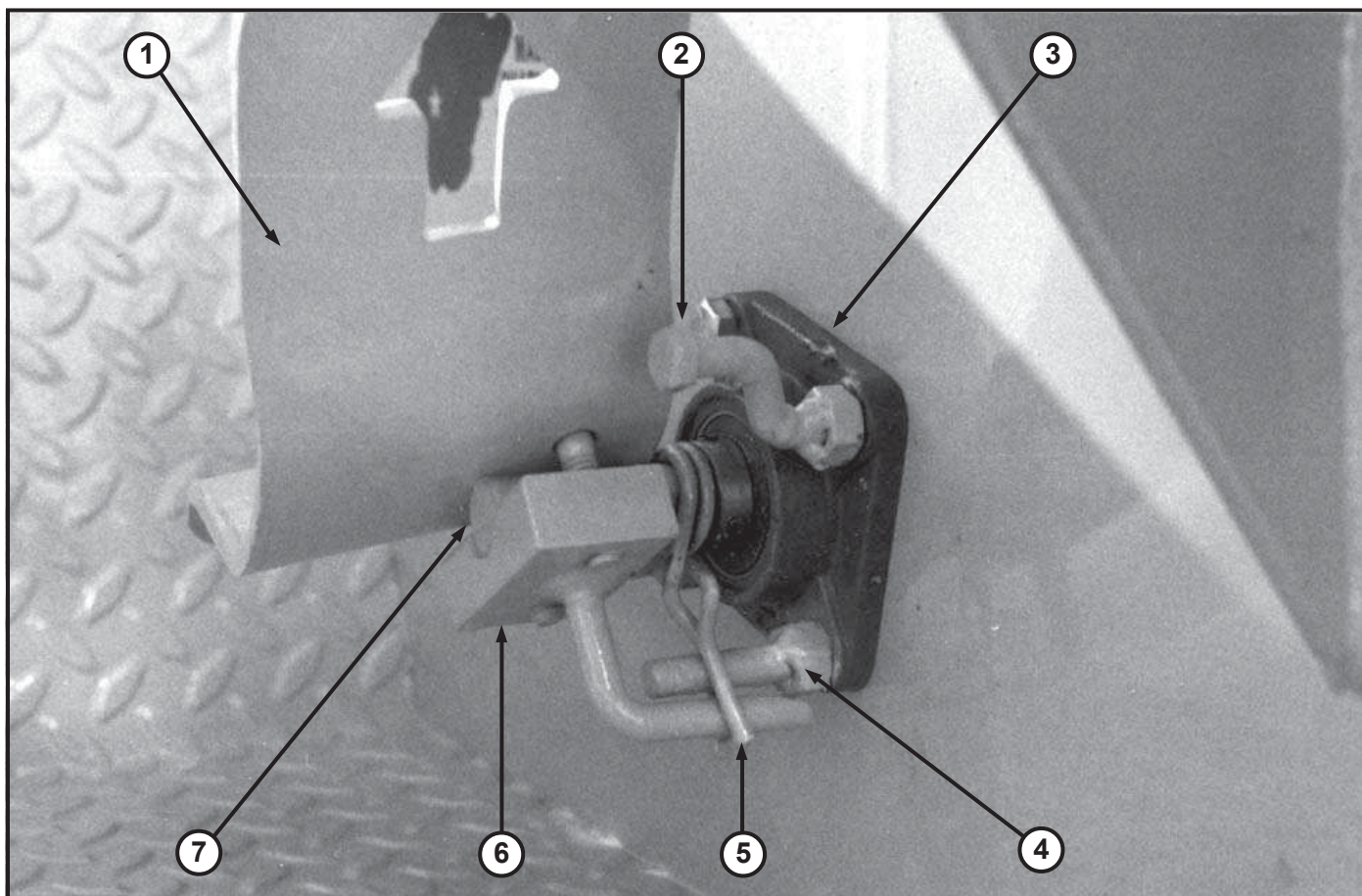


View of Deck Lid (Behind Operator Seat)



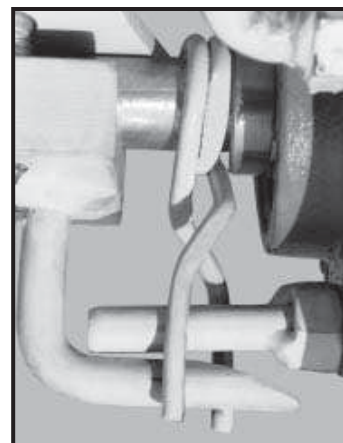
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	15066	1-57.2	Front Deck Cover	1
2	15001	1-57.1	Deck Lid	1
3	15067	1-57.3	Rear Deck Lid	1

View from Right of Foot Pedal Control - 2WD

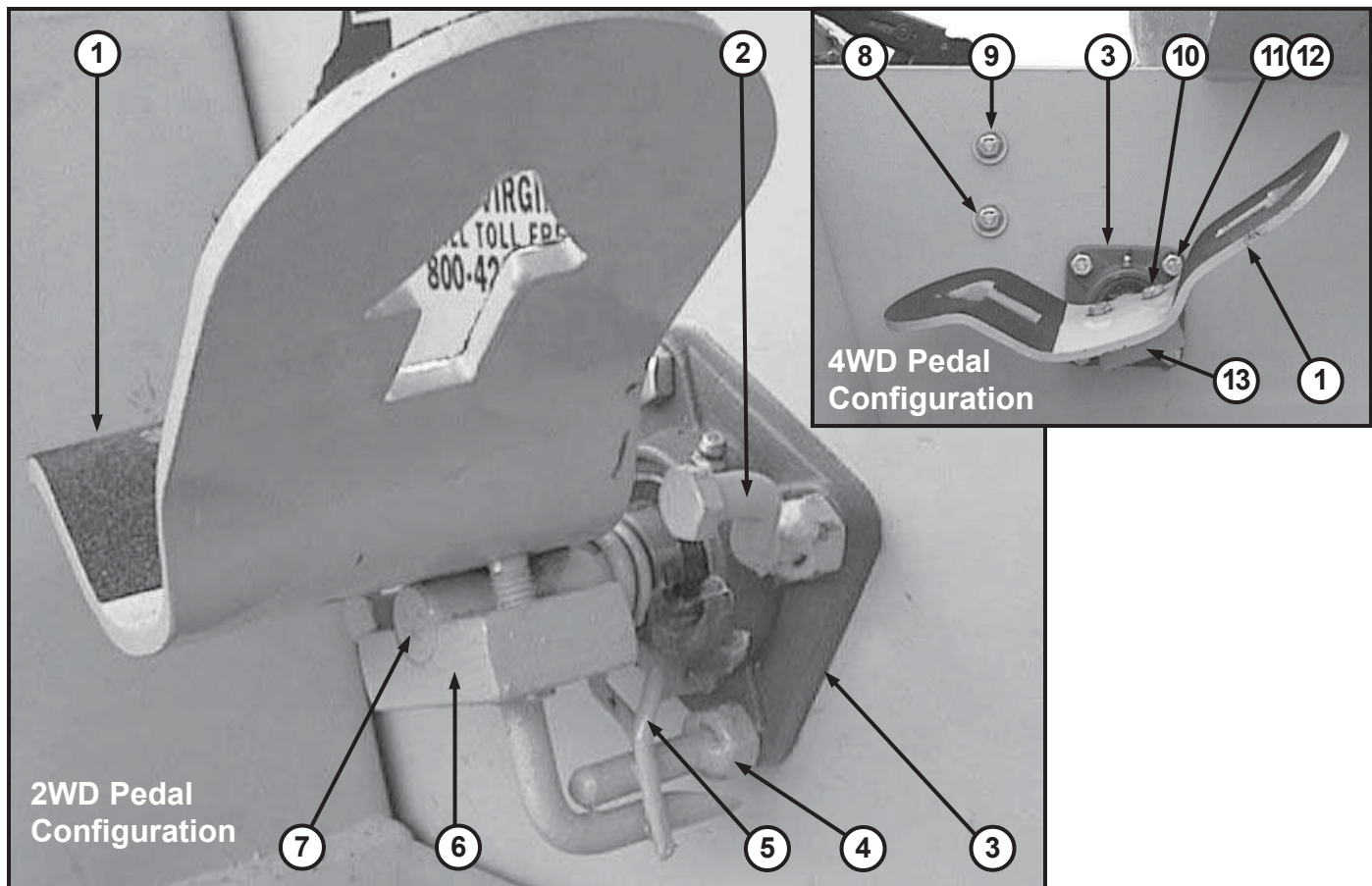


ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	11600	1-60	Foot Pedal, 2WD	1
2	10139	10139	Pedal Stop Bolt, 2WD and 4WD	2
3	11627	1-62.7	Pillow Block Bearing, 2WD	1
4	10140	10140	Spring Centering Bolt , 2WD	1
5	13029	13029	Pedal Spring, 2 WD	1
6	11610	1-61	Pedal Block, 2WD	1
7	11620	1-62	Pedal Shaft, 2WD	1

Close Up of Pedal Spring Installation

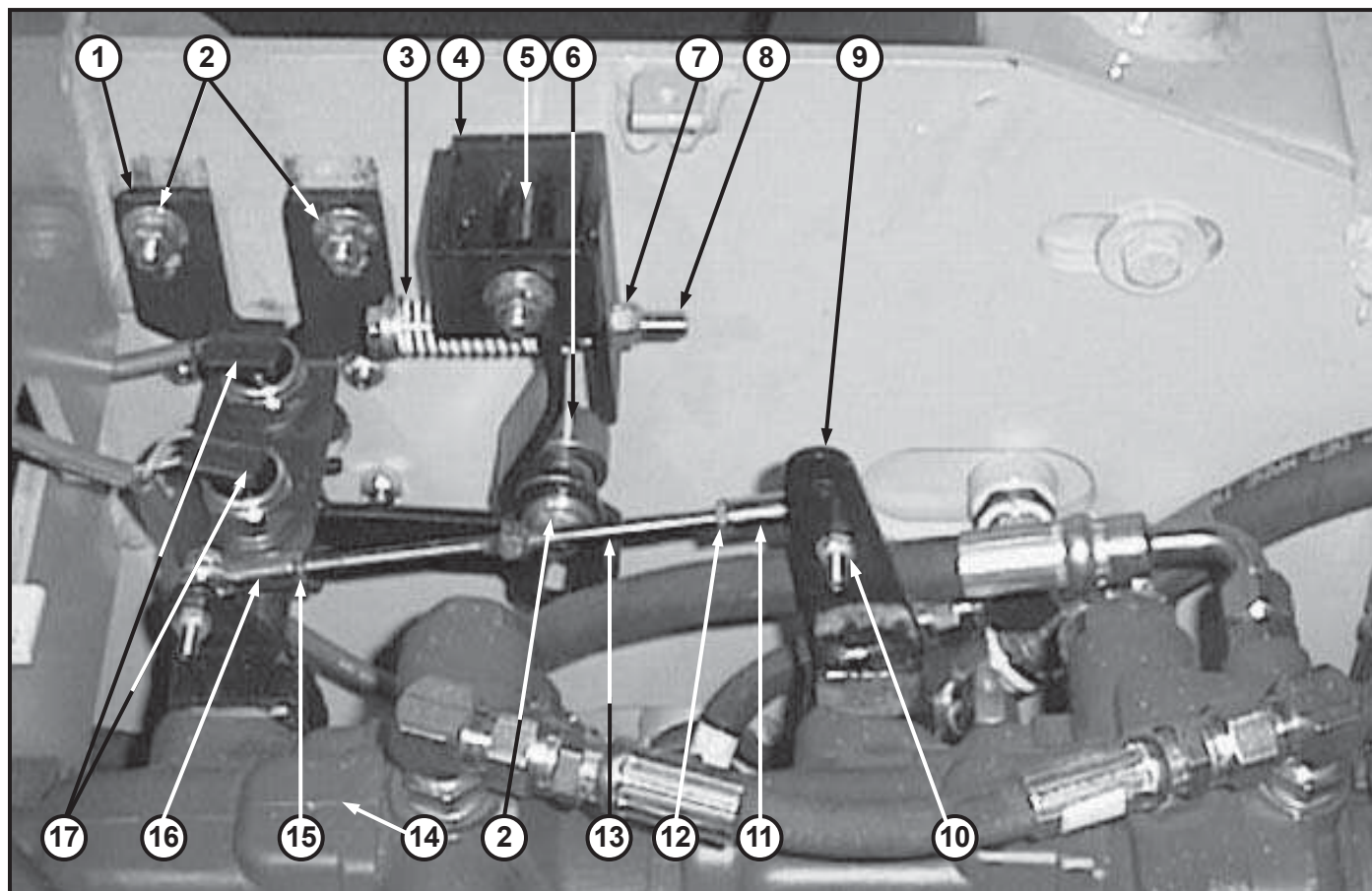


View from Right of Foot Pedal Control (Continued)



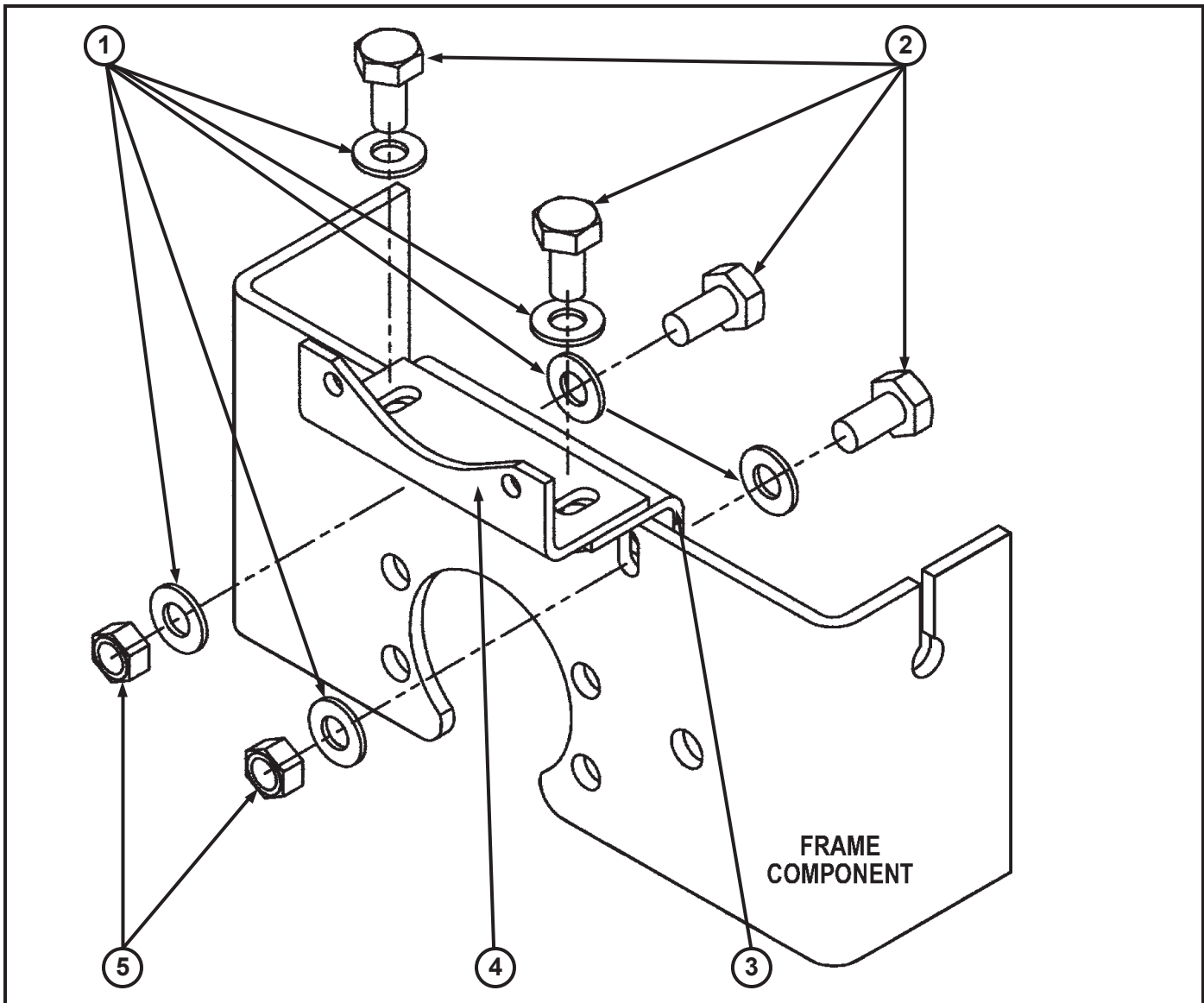
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
2 WHEEL DRIVE				
1	11600	1-60	Foot Pedal	1
2	10139	10139	Pedal Stop Bolt, 2WD and 4WD	2
3	11627	1-62.7	Pillow Block Bearing	1
4	10140	10140	Spring Centering Bolt	1
5	13029	1-22.T5	Pedal Spring	1
6	11610	1-61	Pedal Block	1
7	11620	1-62	Pedal Shaft, 2WD	1
4 WHEEL DRIVE				
8	22008	1B6.16C8	Bolt, $\frac{3}{8}$ " - 16NC x 1" LG. GR. 8, Plated	1
9	22006	22006	Bolt, $\frac{3}{8}$ " - 16NC x 3 $\frac{1}{4}$ " LG. GR. 8, Plated	1
10	22016	1B6.24C5	Bolt, $\frac{3}{8}$ " - 16NC x 1" LG. GR. 5	2
11	22036	1B6.20C5	Bolt, $\frac{3}{8}$ " - 16NC x 1 $\frac{1}{4}$ " LG. GR. 5	4
12	23001	1N6CL	Nut, $\frac{3}{8}$ " - 16NC Lock	4
13	13057	13057	Pedal Shaft, 4WD (Not Shown)	1

View of Cam Roller Center Spring (After Serial Number 6980103)



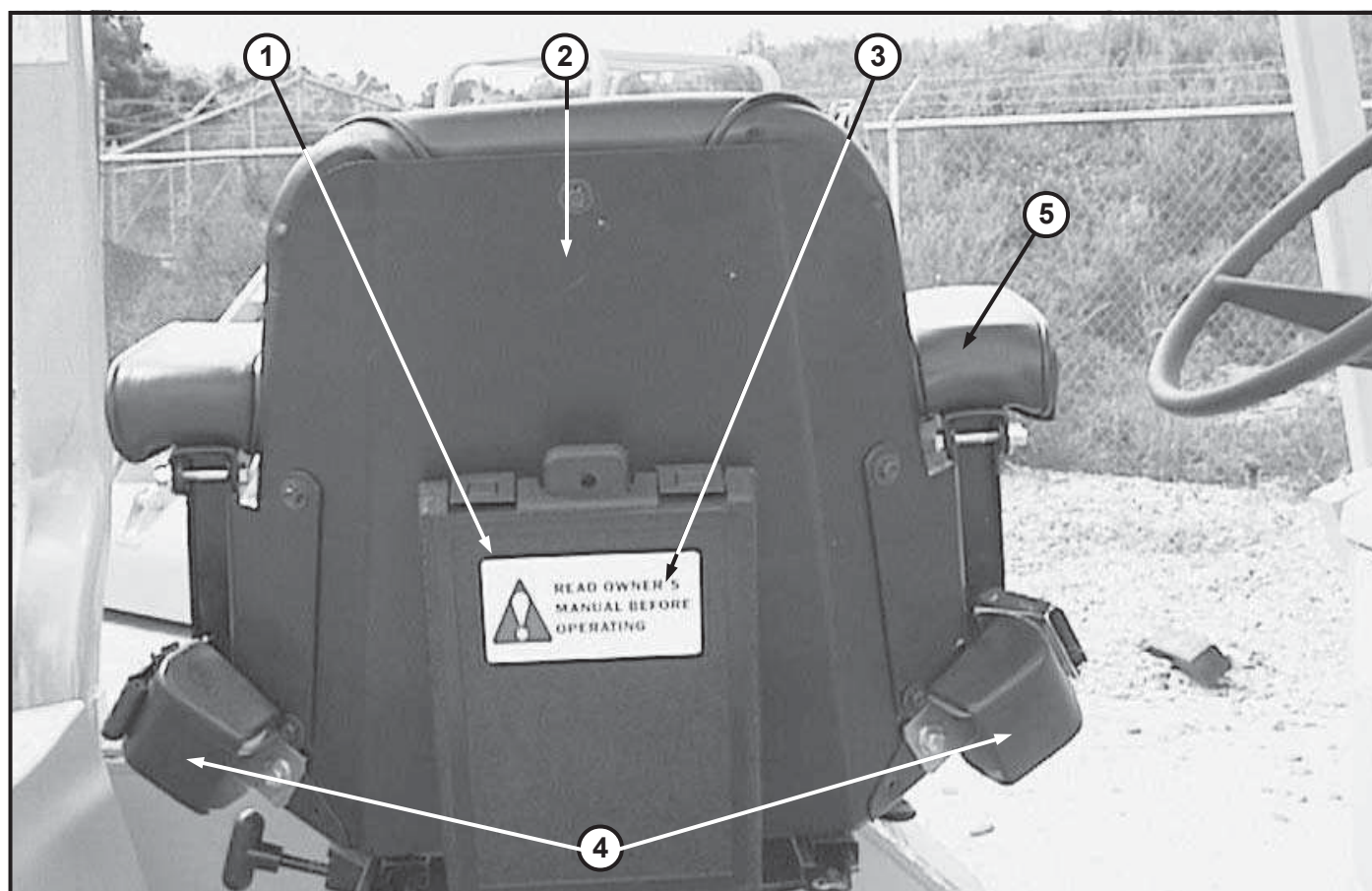
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	13034	D705.3	Bracket, Neutral Safety Switch	1
2	20082	1N6CF	Nut, $\frac{3}{8}$ " NC Flange	3
3	13017	13017	Spring Compression	1
4	13009	13009	Cam Block	1
5	13010	13010	Camplate	1
6	13018	13018	Cam Bearing (Yoke-Cam Follower Bearing)	1
7	23008	1NGFL	Nut, $\frac{3}{8}$ " - 24NF Lock	1
8	22012	22012	Bolt, $\frac{3}{8}$ " - 24NF x 4" Long GR. 8, Plated	1
9	13055	13055	Link, Transmission Control	1
10	28504	1N4CL	Nut, $\frac{1}{4}$ " - 28NF Lock, Plated	2
11	13032	13032	Ball Joint, $\frac{1}{4}$ " - 28NF RH Thread	1
12	22078	22078	Nut, $\frac{1}{4}$ " - 28NF JAM, RH Thread	1
13	64068	64068	Rod - $\frac{1}{4}$ "-28NF Linkage	1
14	64002	64002	Tandem Transmission	1
15	22079	22079	Nut, $\frac{1}{4}$ " - 28 NF JAM LH Thread	1
16	13030	13030	Ball Joint, $\frac{1}{4}$ " - 28NF LH Thread	1
17	70000	D705	Neutral Safety/Back Up Alarm Switch	2

Exploded View of Rear Transmission 4WD Brackets (After SN6981028 Dec. 98)



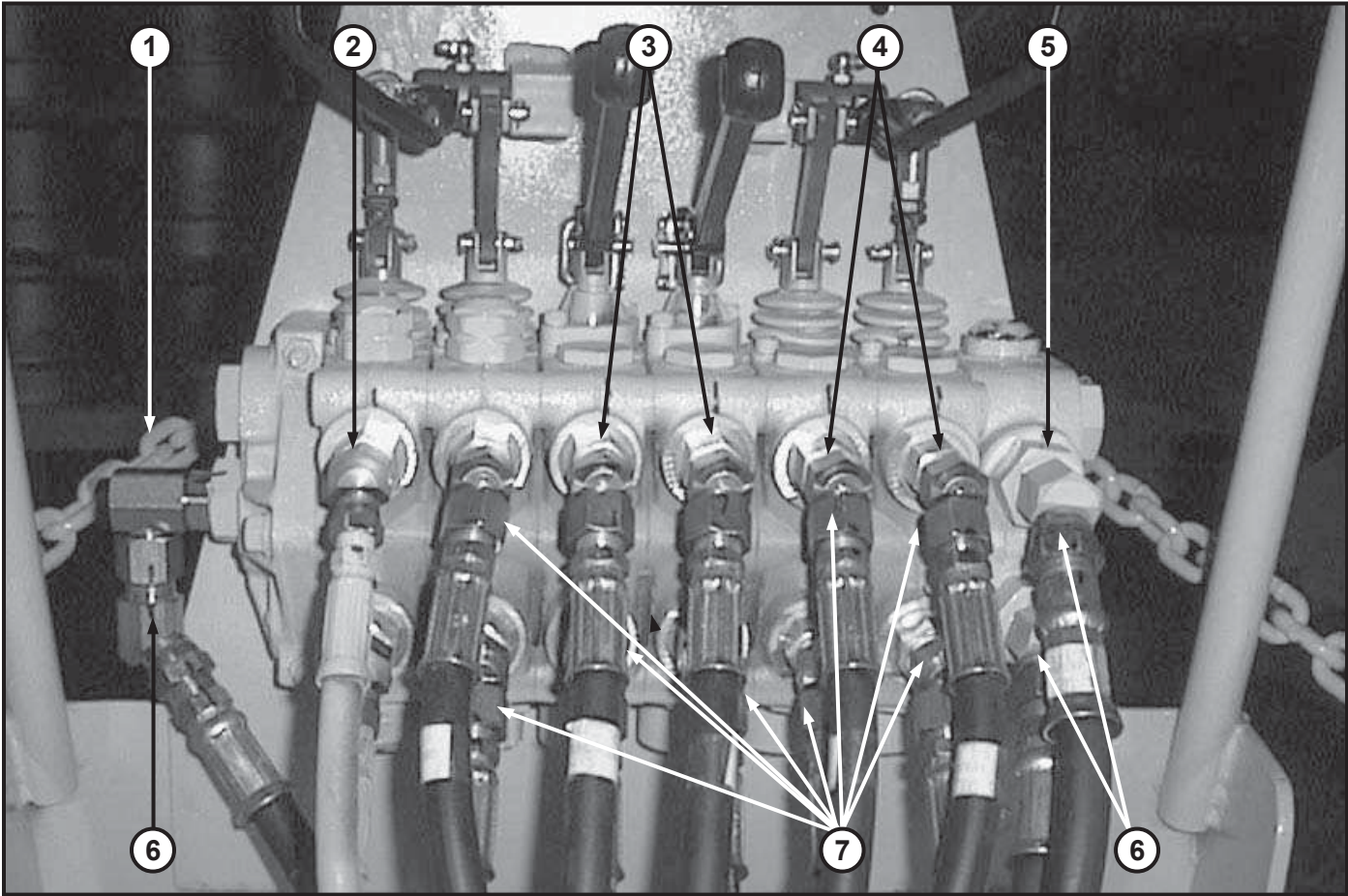
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	22013	22013	Washer $\frac{3}{8}$ "	6
2	22044	22044	Bolt, $\frac{3}{8}$ - 16NC x $\frac{3}{4}$	4
3	15087	15087	Bracket, Bottom Transmission	1
4	16182	16182	Bracket, Top Transmission	1
5	23001	23001	Nut, $\frac{3}{8}$ " - 16NC Lock, 4 WD	2

View from Back of Seat



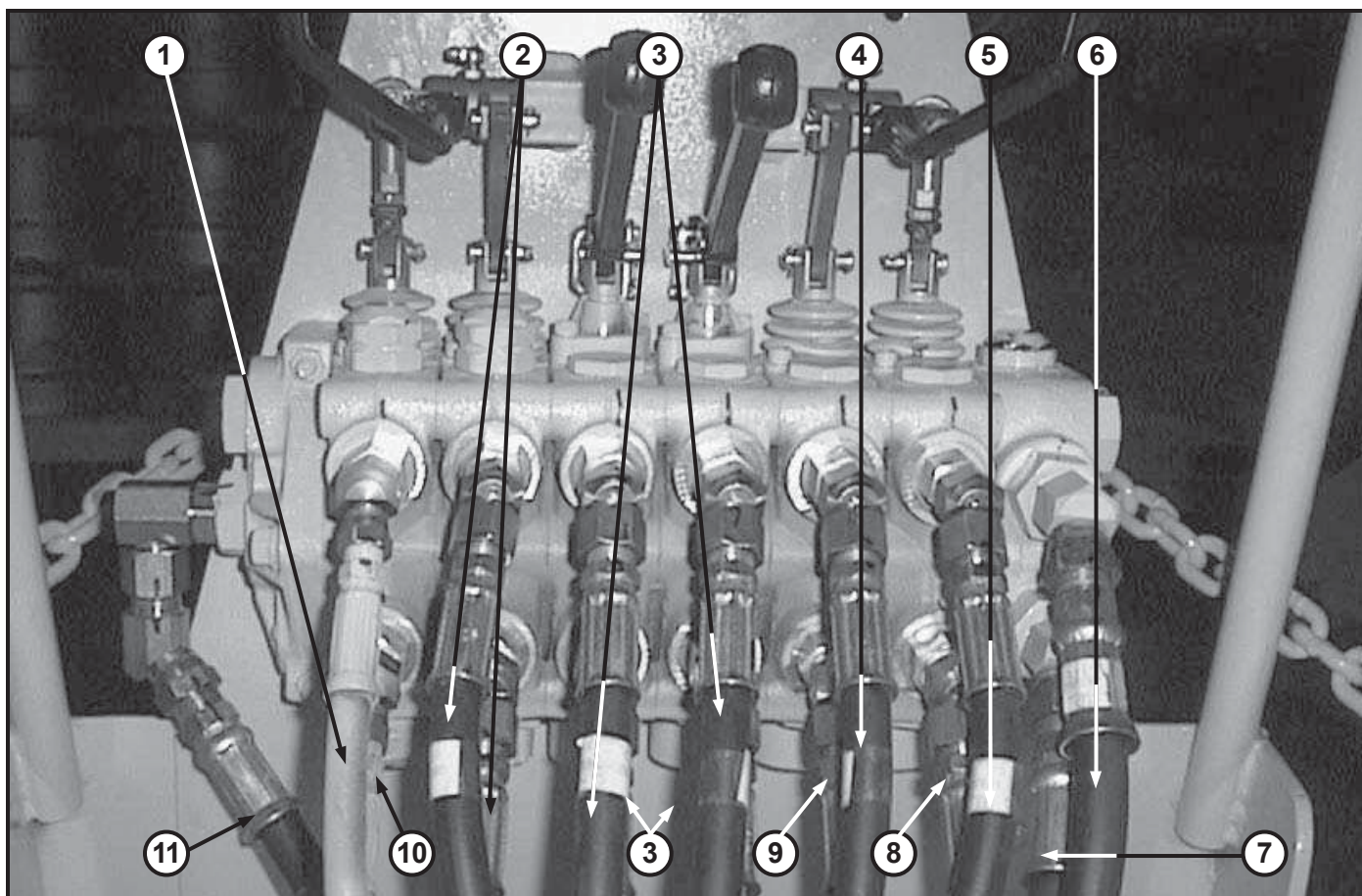
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	11911	MANUAL.BOX	Manual Box	1
2	14260	14260	Seat Assembly, Swivel	1
3	14046	1-400.46	Decal, "Read Owners Manual..."	1
4	11903	1-19.3	Seat Belt Assembly (Both Halves)	1
5	11045	11045	Arm Rest	2

View from Operator Position of Backhoe Valve



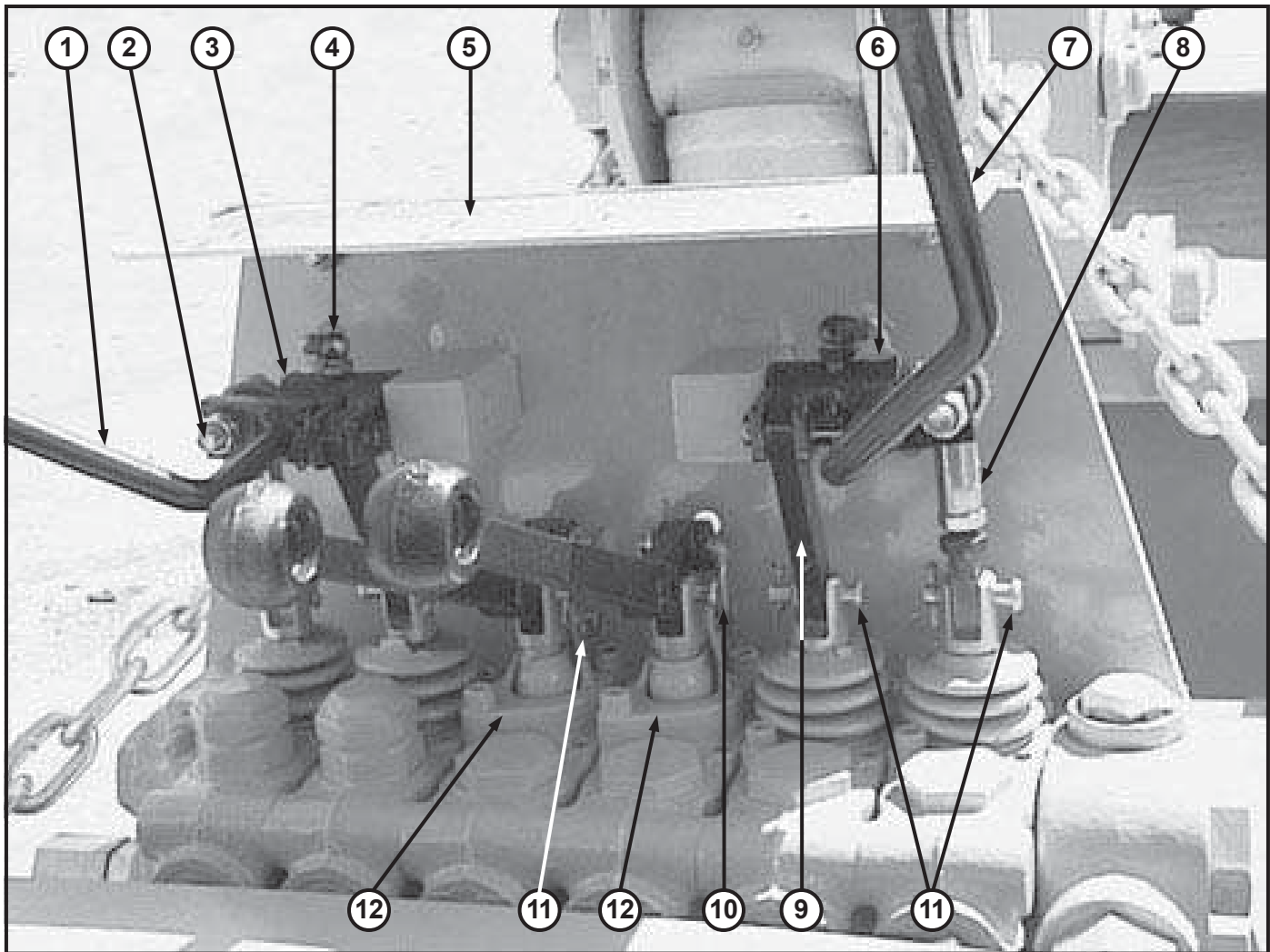
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	25718	2507.10-8	Fitting, 7/8" MP 90 x 1/2" Swivel	1
2	21765	3107.6-4.R	Fitting, 3/8" MP x 1/4" FP - Restrictor	2
3	21767	3107.6-6.R	Fitting, 3/8" MP x 3/8" MP 45 Degrees - Restrictor	2
4	25286	0502.8-6	Fitting, 3/4" MB x 3/8" F - Bushing	12
5	20065	0502.12-8	Fitting, #12 O'Ring x 1/2" FPT	2
6	21788	3107.8-8	Fitting, 1/2" M x 1/2" FM Swivel 45	3
7	21766	3107.6-6	Fitting, 3/8" MP x 3/8" MP 45 Degrees	8
NOT SHOWN	23413	1-34.113	Restrictor w/Spring	3

View from Operator Position of Backhoe Valve (Continued)



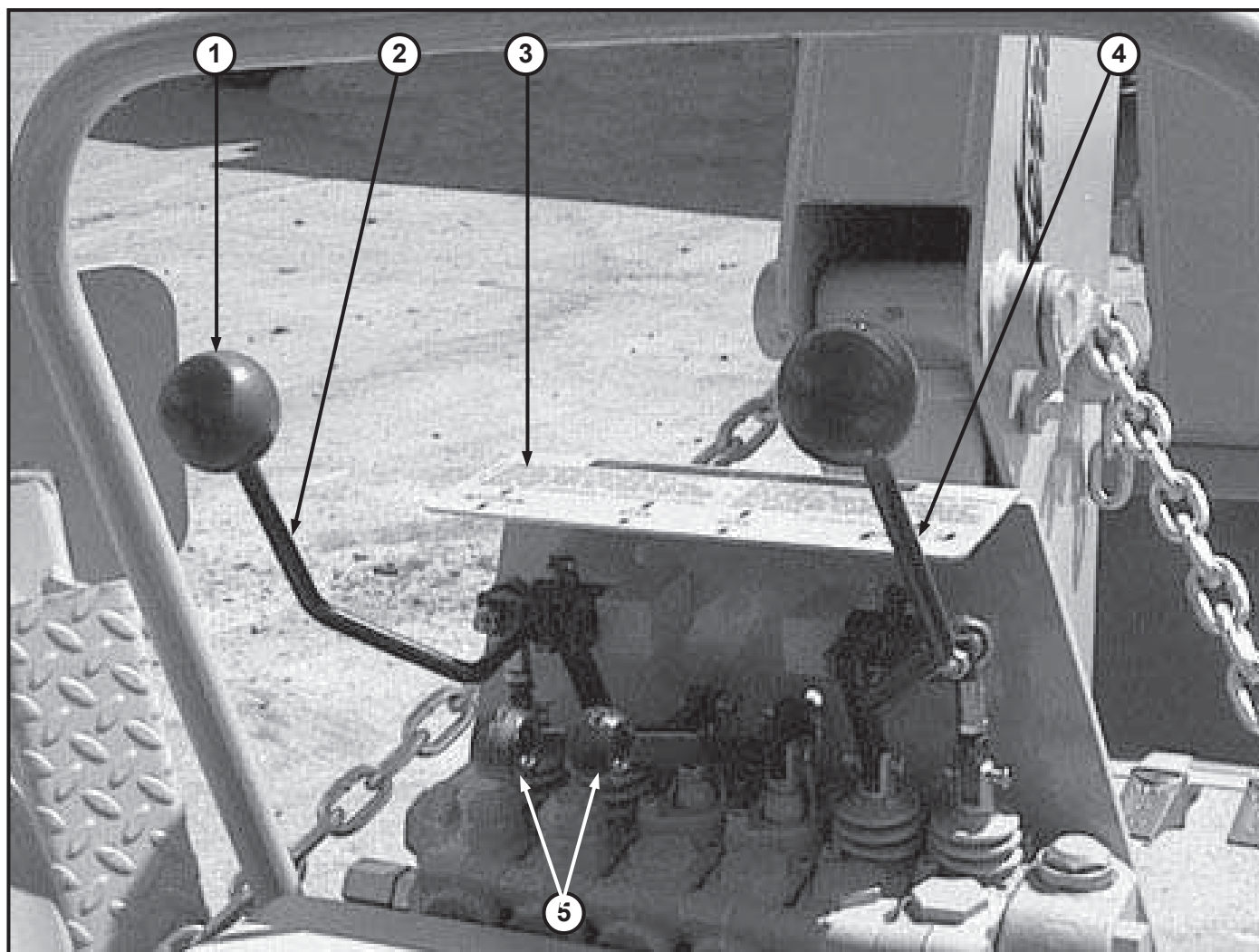
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	88425	8-4.25	Hose, 1/4" x 25"	1
2	88666	8-6.66	Hose, 3/8" x 66"	2
3	80126	80126	Hose, 3/8" x 52"	4
4	88688	8-6.88	Hose, 3/8" x 88"	1
5	86142	8-6.142	Hose, 3/8" x 142"	1
6	88840	8-8.40	Hose, 1/2" x 40"	1
7	88857	8-8.57	Hose, 1/2" x 57" (2 Wheel Drive)	1
	88845	8-8.45	Hose, 1/2" x 45" (4 Wheel Drive)	
8	80075	80075	Hose, 3/8" x 138"	1
9	86101	8-6.101	Hose, 3/8" x 101"	1
10	88420	8-4.20	Hose, 1/4" x 20"	1
11	88880	8-8.80	Hose, 1/2" x 80"	1

View from Operator Position of Backhoe Valve (Continued)



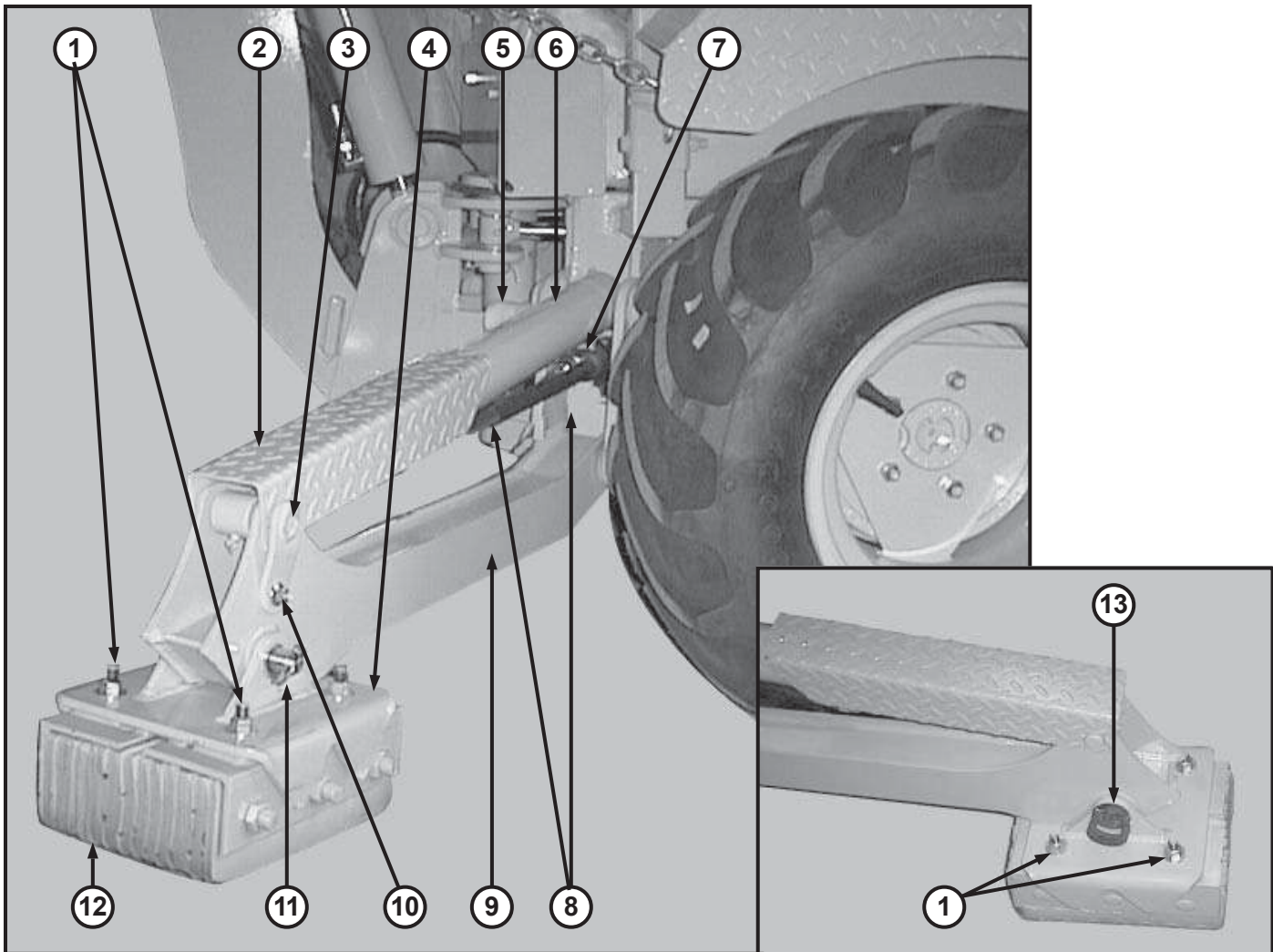
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	13464	1-64LR.T6	Handle, Wobblestick, Left Rear	1
2	25500	IN5FJ	Nut, $\frac{5}{16}$ " NF Jam	2
3	13444	1-64.4LR	Wobblestick Pivot Block, Left Rear	1
4	21429	S4MOG.90.40G	Fitting, Grease 90°	2
5	14052	1-400.50A.1	Decal, Plate, Wobblestick Controls	1
6	13445	1-64.4RR	Wobblestick Pivot Block, Right Rear	1
7	13465	1-64RR.T6	Handle, Wobblestick, Right Rear	1
8	13965	1-65	Linkage	3
9	13443	1-64.3	Connecting Link	3
10	13411	1-34.11	Valve Link	3
11	13418	1-34.18	Pin, Valve Hose Link Pivot	10
12	13410	1-34.10	Aluminum Valve Handle Bracket	2

View from Operator Position of Backhoe Valve (Continued)



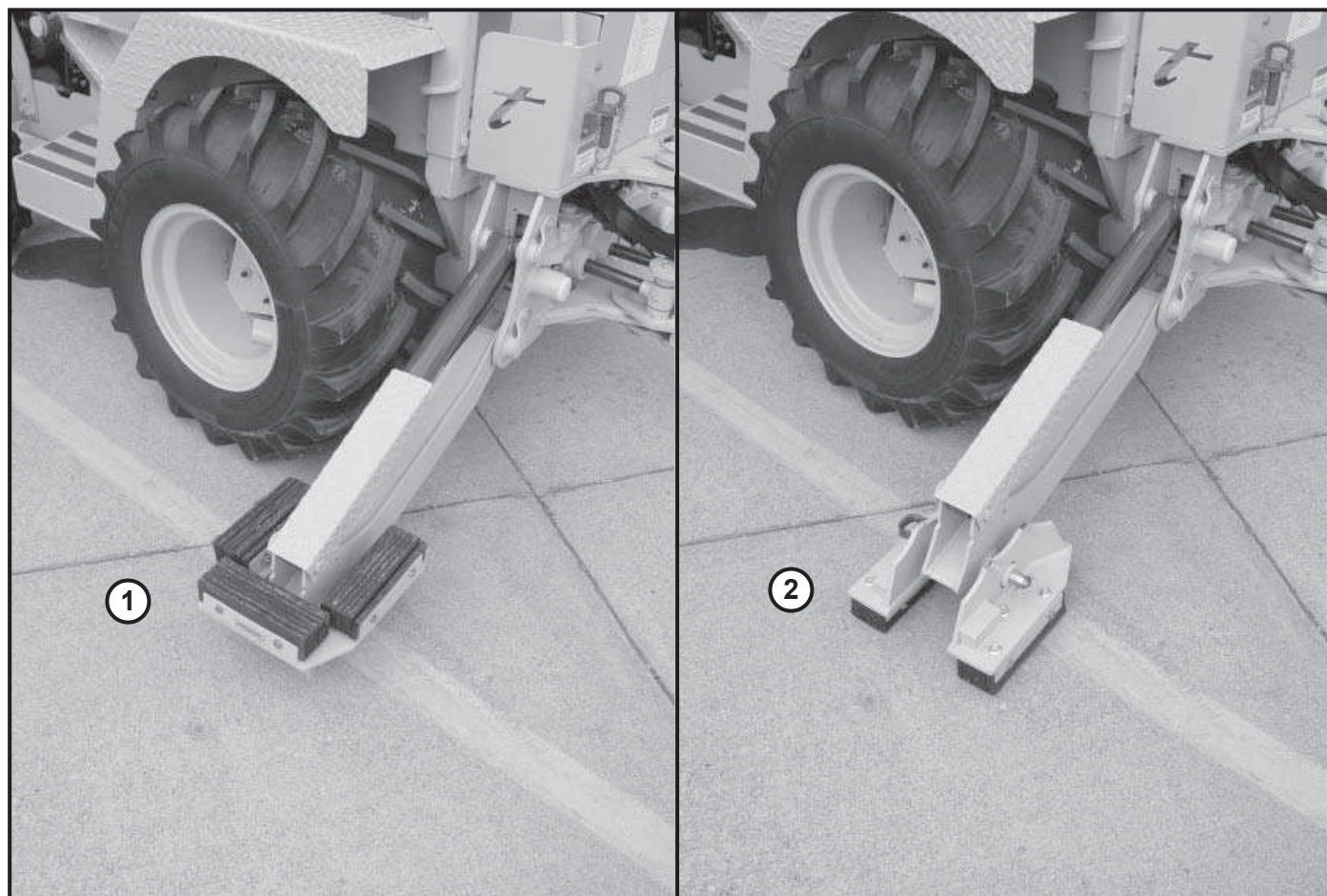
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	13942	1-42R	Knob	3
2	13464	1-64LR.T6	Handle, Wobblestick, Left Rear	1
3	14052	1-400.50A.1	Decal, Plate, Wobblestick Controls	1
4	13465	1-64RR.T6	Handle, Wobblestick, Right Rear	1
5	13431	1-34.31	Handle, Outrigger	2

View from Right Side of Outrigger Assembly



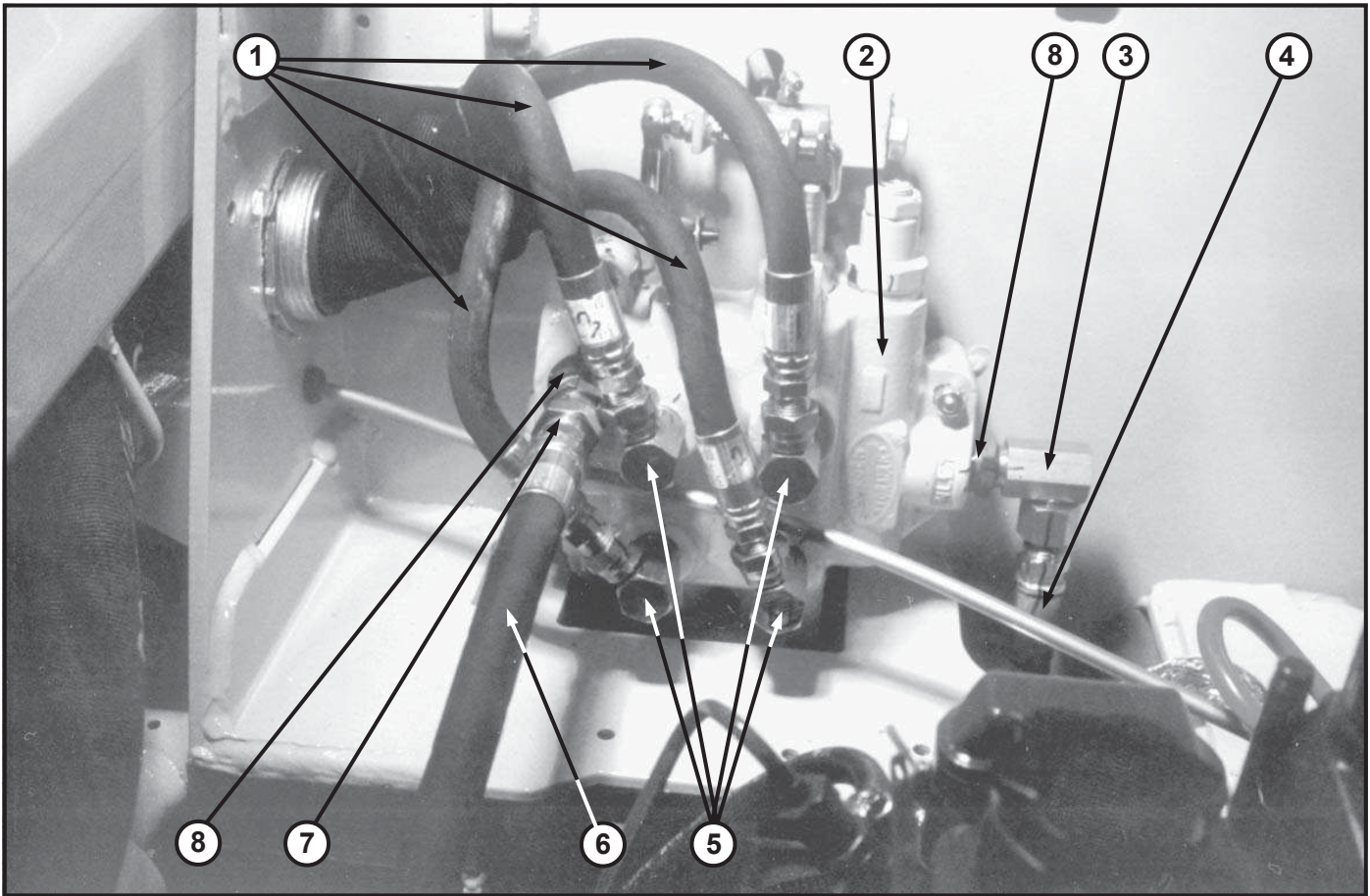
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	28500	1N8CL	Nut, 1/2" x 13NC Stover B	8
2	11516	1-15.10.T6	Outrigger Guard	2
3	11502	1-15.1.T5C	Pin, 1" x 4 1/8"	2
4	11048	11048	Pad, Outrigger Foot	2
5	15486	1-54.80.T6	Swing Stop	2
6	21606	1-16.T6	Outrigger Cylinder (Prior to SN 6990214)	2
	81136	81136	Outrigger Cylinder (SN 6990214 and after)	2
7	22002	22002	Clamp, Hose - Outrigger (Prior to SN 6990214)	2
8	88652	8-6.52	Hose, 3/8" x 52" (Prior to SN 6990214)	4
	80126	80126	Hose, 3/8" x 36" (SN 6990214 and after)	4
9	11047	11047	Outrigger	2
10	20082	20082	Nut, 3/8" NC Flange	2
11	10202	10202	Pin, Linch 1/4" Diameter	2
12	11595	11595	Rubber Street Pad	2
13	17156	17156	Pin, 1" x 5 1/4", Outrigger to Foot Pad Pull	2

View of Flip Over Pads



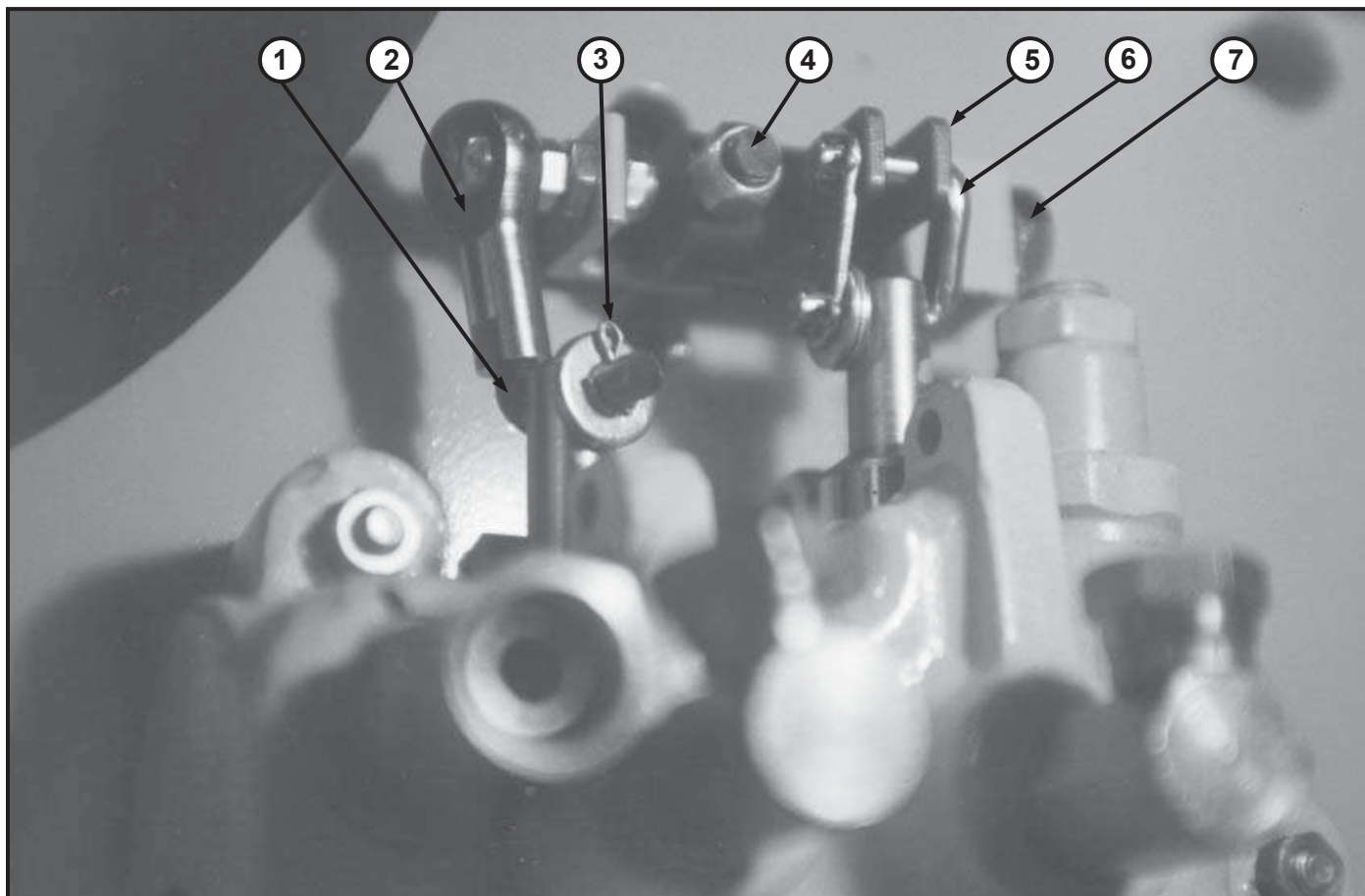
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	11129	11129	Flip Over Pad, Earth	1
2	11129	11129	Flip Over Pad, Street	1

View of Loader Valve Assembly



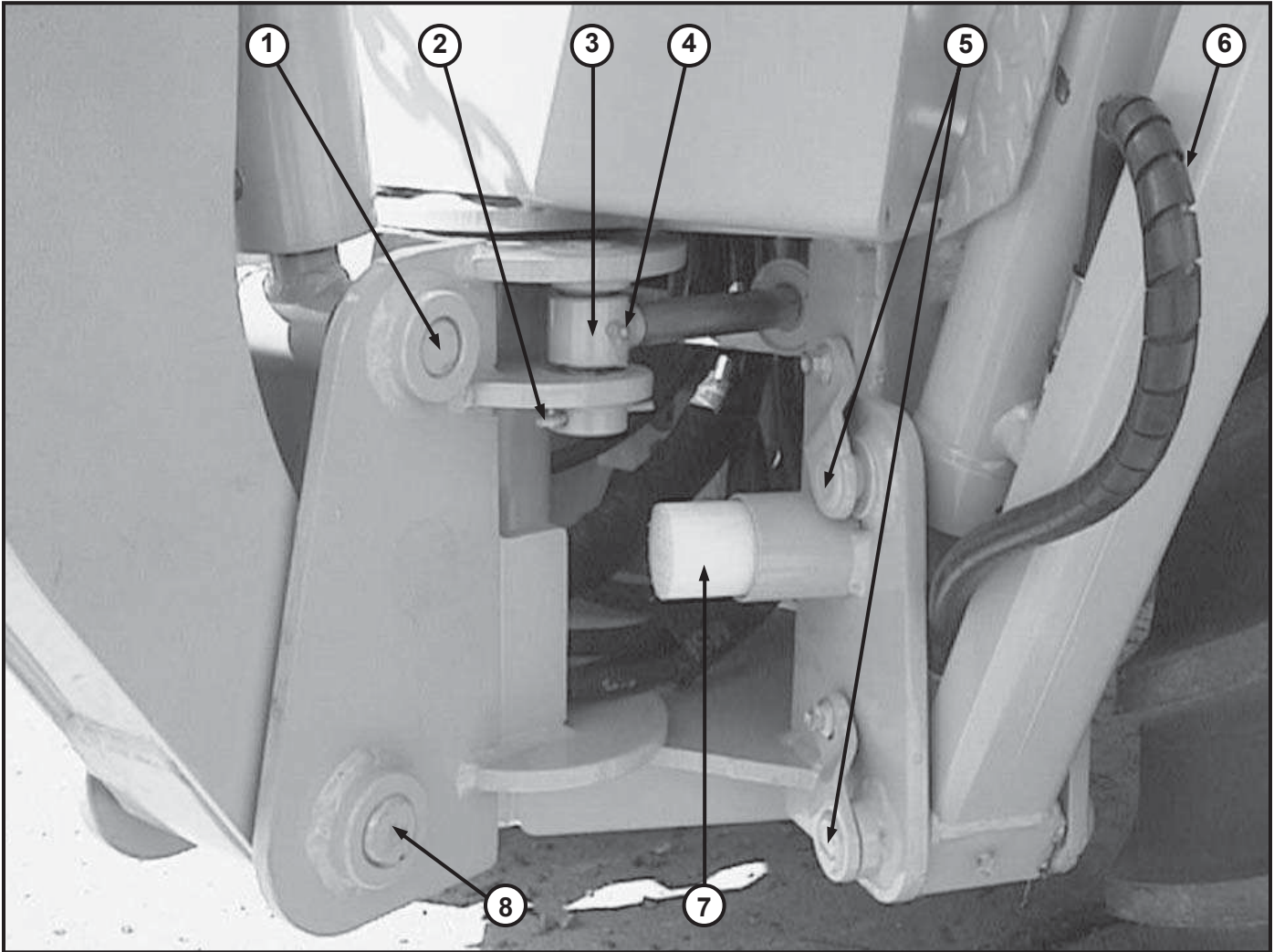
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	80132	Hose, $\frac{3}{8}$ " x 70"	4
2	85015	Valve, Front, Drilled and Painted (No Fittings)	1
3	21978	Fitting, $\frac{1}{2}$ " M 90 x $\frac{1}{2}$ " FSW	2
4	88880	Hose, $\frac{1}{2}$ " x 80"	1
5	20786	Fitting, $\frac{1}{2}$ " MP x $\frac{3}{8}$ " FSW 90D	4
6	88831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

View of Front Valve Linkage Assembly



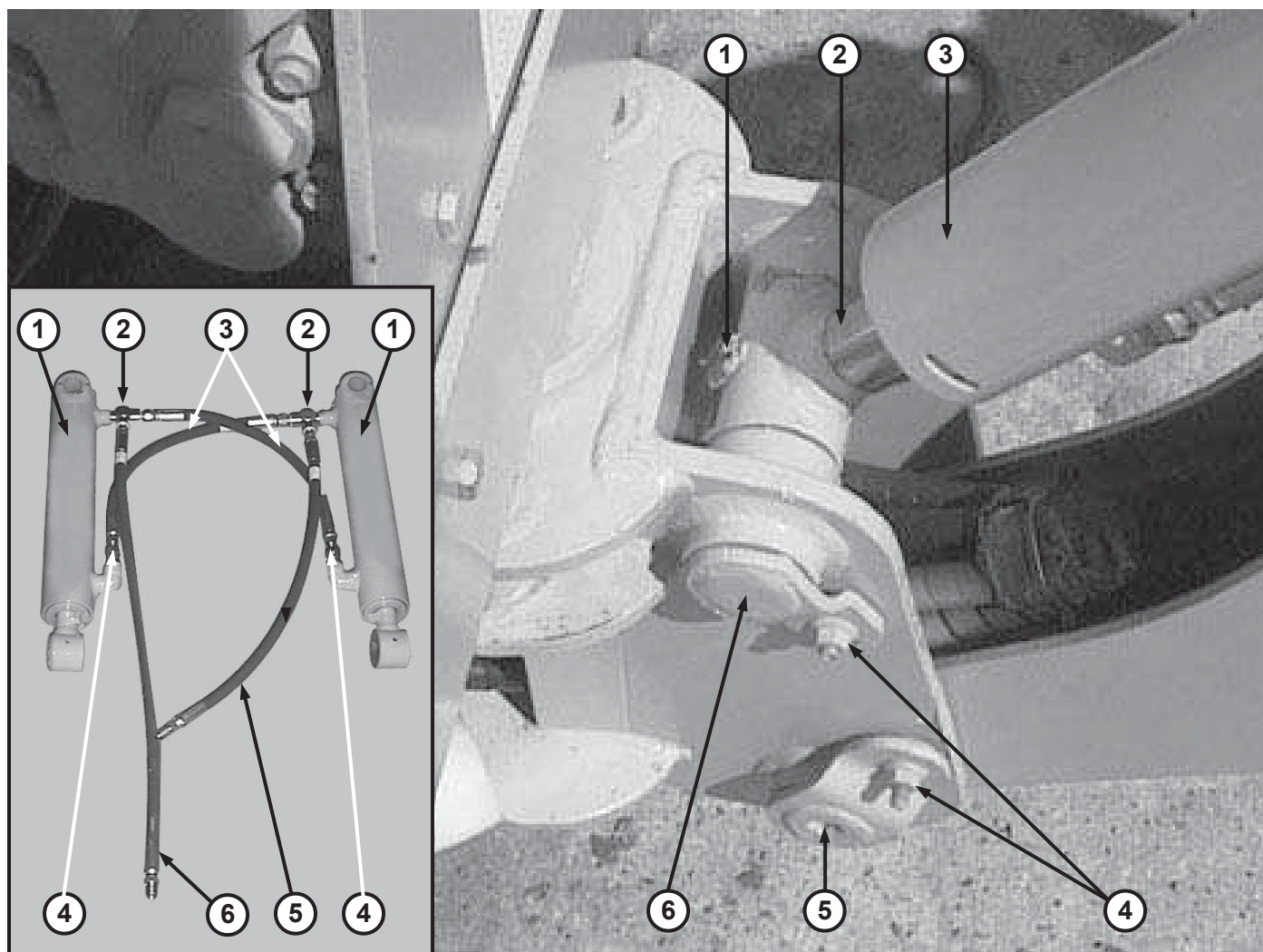
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	13947	Link, "L", Front Valve, All Tractors	1
2	13965	Linkage, Ball-Socket, Wobblestick, All Tractors	1
3	13413	Pin, Cotter, $\frac{3}{32}$ " x $\frac{5}{8}$ ", Linkage, Valve, All Tractors	1
4	25500	Nut, $\frac{5}{16}$ " - 24 NF Jam	1
5	13944	Block, Pivot, Wobblestick, 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 from Right Side of Swing Assembly



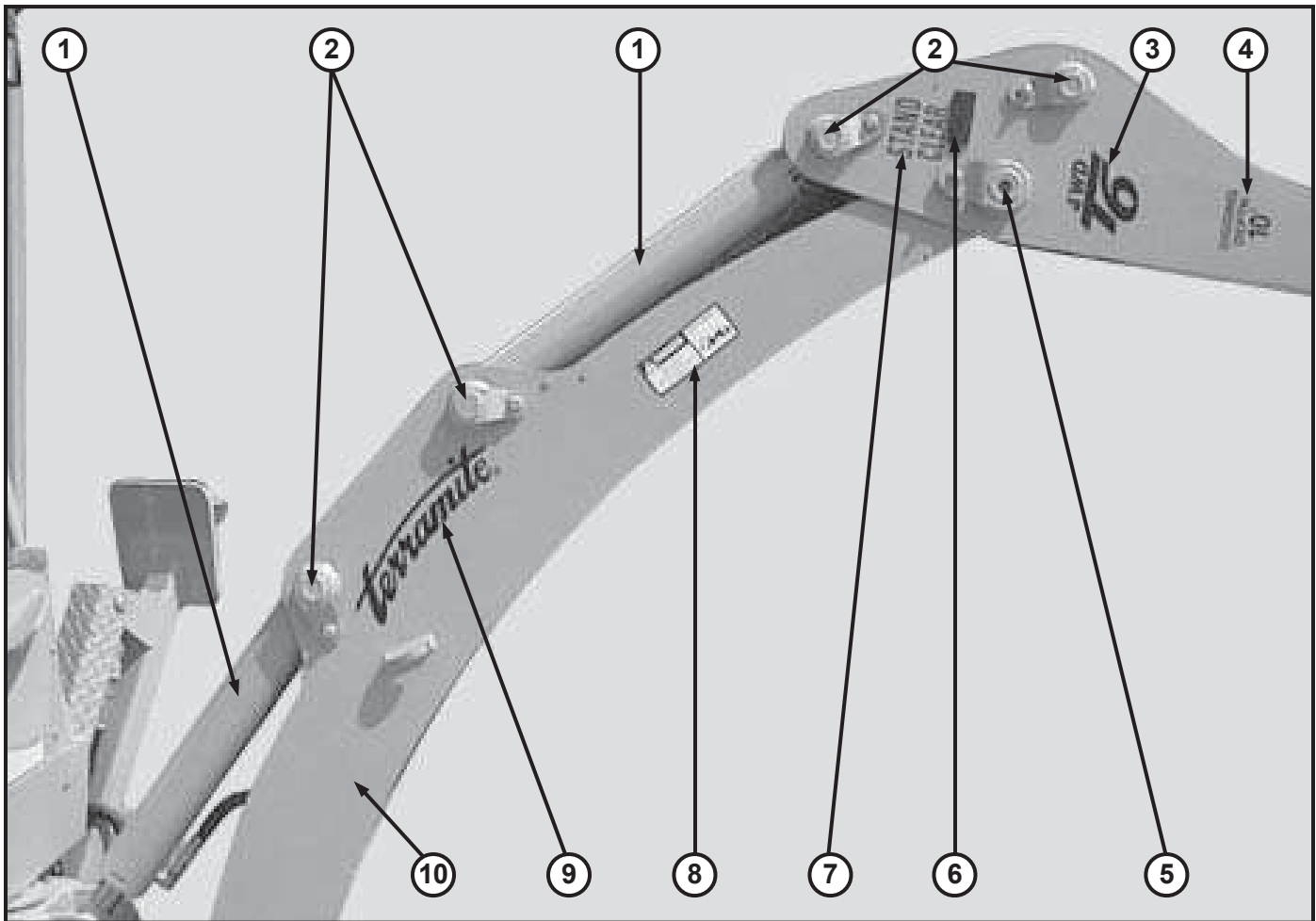
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	17208	17208	Pin, 1 ¹ / ₄ " x 7 ³ / ₄ " x 8 ¹ / ₄ "	1
2	21420	1CP8.80	Cotter Pin	2
3	25201	1-52.01	Swing Rod	2
4	21428	S4MPG	Fitting, Grease, 1/4"-28 Straight	32
5	11100	1-11.T5C	Pin, 1" x 6 ¹ / ₄ "	4
6	80126	80126	Hose, 3/8" x 52"	4
7	15486	1-54.80.T6	Swing Stop	2
8	10406	1-04.T6	Pin, 1 ¹ / ₂ " x 8 ¹ / ₄ "	1

View from Right Side Top of Swing Assembly



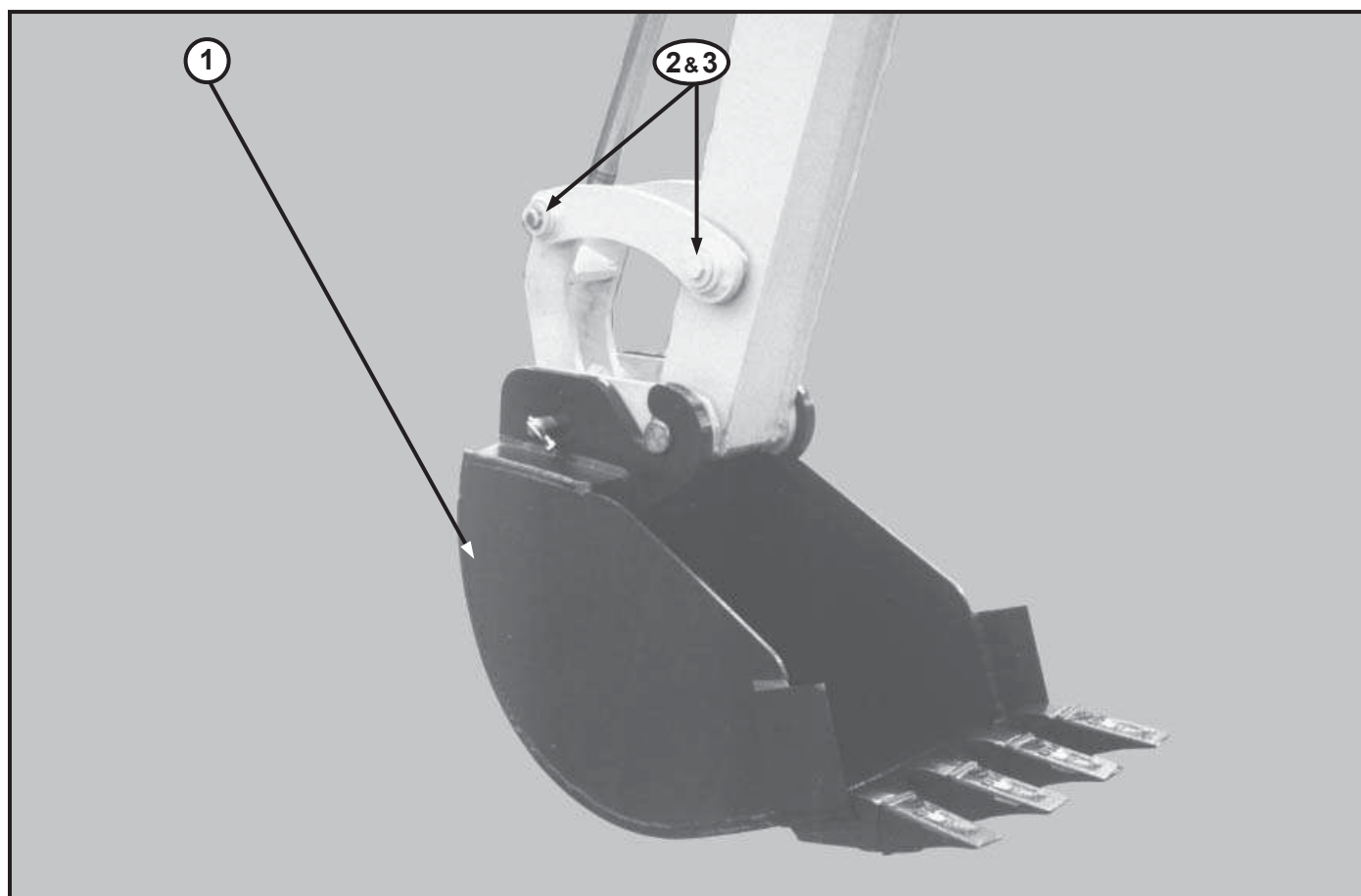
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	21428	S4MPG	Fitting, Grease, 1/4"-28 Straight	32
2	21206	1-102.01.150	Rod, Boom & Crowd	2
3	82103	82103	Boom/Crowd Cylinder	2
4	20082	IN6CF	Nut, 3/8" NC Flange	24
5	10406	1-04.T6	Pin, 1 1/2" x 8 1/4"	1
6	17208	17208	Pin, 1 1/4" x 7 3/4"	1
INSET - SWING CYLINDER SUB-ASSEMBLY				
1	82070	82070	Cylinder Assembly, Swing W/Tee Fitting	2
2	20025	20025	Fitting - 90° Tee	2
3	80045	8-4.15	Hose, 1/4" Swing Crossover, 15"	2
4	20174	0107.4-4	Fitting, Straight 1/4" Swivel	2
5	88420	8-4.20	Hose, 1/4" Swing to Valve, 20"	1
6	88425	8-4.25	Hose, 1/4" Swing to Valve, 25"	1

View from Right Side of Boom



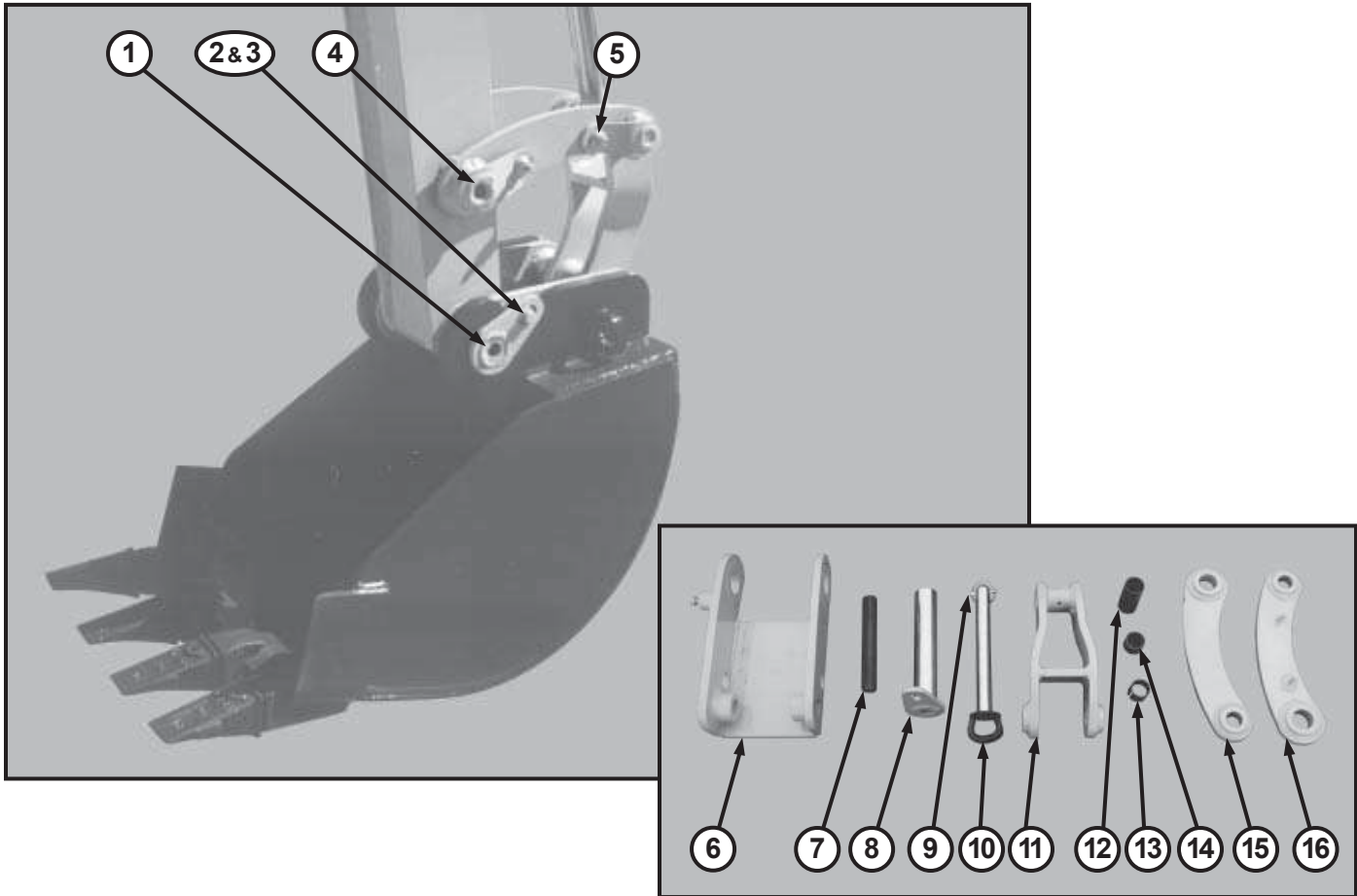
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	82103	82103	Boom/Crowd Cylinder	2
2	10706	1-71.T6	Pin, 1 1/4" x 6 5/8"	4
3	14102	1-400.102	Decal, T6 4 Wheel Drive	2
	14101	1-400.101	Decal, T6 2 Wheel Drive	
4	14103	1-400.103	Decal, Digging Depth 10'	2
5	10707	1-07L.T6	Pin, 1 1/2" x 7 1/4"	1
6	14022	1-402.2	Reflector, Red	3
7	14004	1-400.4	Decal, Stand Clear	2
8	14054	1-400.54	Decal, Crush Hazard	2
9	14107	1-400.107	Decal, Radius Terramite	2
10	10291	10291	Boom Assembly	1

View of Right Side of Rear Bucket & Linkage Assembly



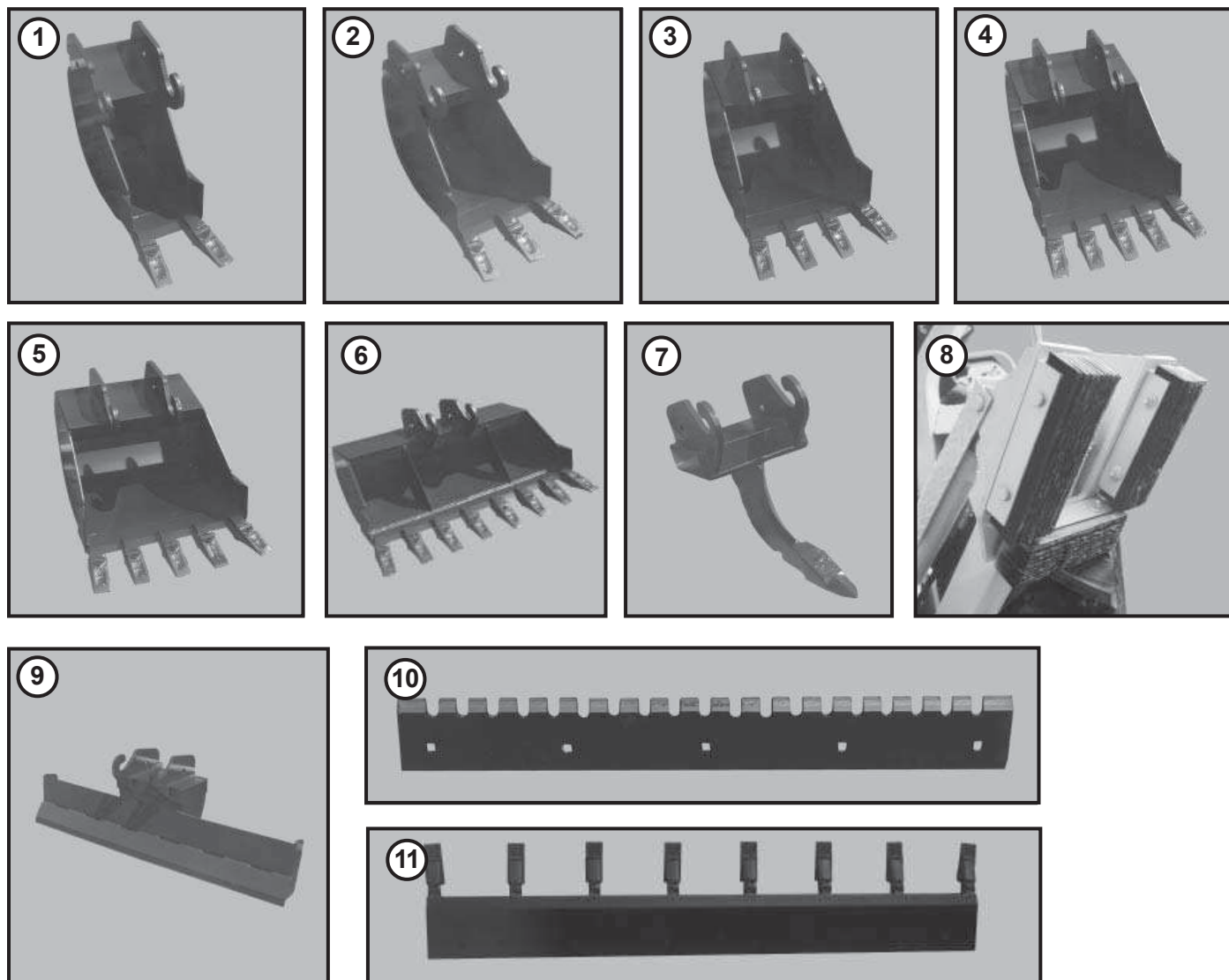
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	19095	Bucket, 16", QuickAttach, T6/T9	1
2	22053	Bolt, 1/2" x 3/4" NC Gr8	2
3	28956	Washer, 3/8" SAE	2

View of Left Side of Rear Bucket & Linkage Assembly



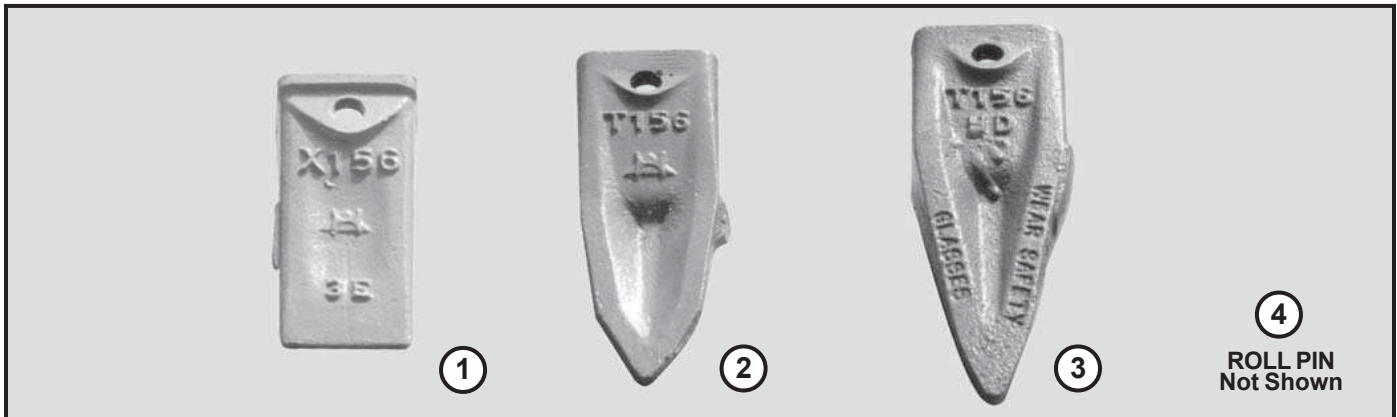
ITEM	PART NUMBER	DESCRIPTION	QTY.
1	17187	Pin, 8 3/4", Quick Attach Bucket, T6/T9	1
2	28956	Washer, 3/8" SAE	1
3	22008	Bolt, 3/8" - 16 x 1" Gr8 Z	1
4	10812	Pin, 7 5/8", Dipstick to Linkage, T5C/T5D/T6/T7/T9	1
5	20082	Nut, 3/8" NC Flange Z	2
6	19480	Center Assembly, Quick Attach, T6/T9	1
7	17269	Pin, 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

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	19441	Edge, Cutting, Serrated, 60" w/Bolts, T6/T9	1
11	19434	Edge, Cutting, Bolt-On, 60" w/Bolts, T6/T9	1

Tooth Caps



ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	10500	1-05.SD	Tooth Cap	NA
2	10590	1-05.TT	Tiger Tooth	NA
3	10591	1-05.TT.HD	Tiger Tooth, Heavy Duty	NA
4	10530	1-05.3	Roll Pin	NA

Position machine must be in to check proper level in hydraulic tank.



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.

- Loader arm listed off ground a few inches.
- Loader bucket curled back
- Backhoe boom in full raised position
- Backhoe dipper fully extended
- Backhoe Bucket curled all the way back

Hydraulic System Oil Change and Type Specifications

When your machine is new, the hydraulic system oil and filter should 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 / 2-200.5C filter or NAPA / 1759 filter. It is important to follow these instructions to alleviate any cold weather engine starting problems and any pressure or heat related component failure.

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

For your engine oil requirements and change intervals refer to your engine owners manual.

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	PREVIOUS 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 Desiel Engines

 **CAUTION:** Review **ALL** steps before proceeding.

 **CAUTION:** Always use caution - wear eye protection.

TOOLS NEEDED:

WRENCHES - 19mm; 18mm; 13mm

STEPS 1-9

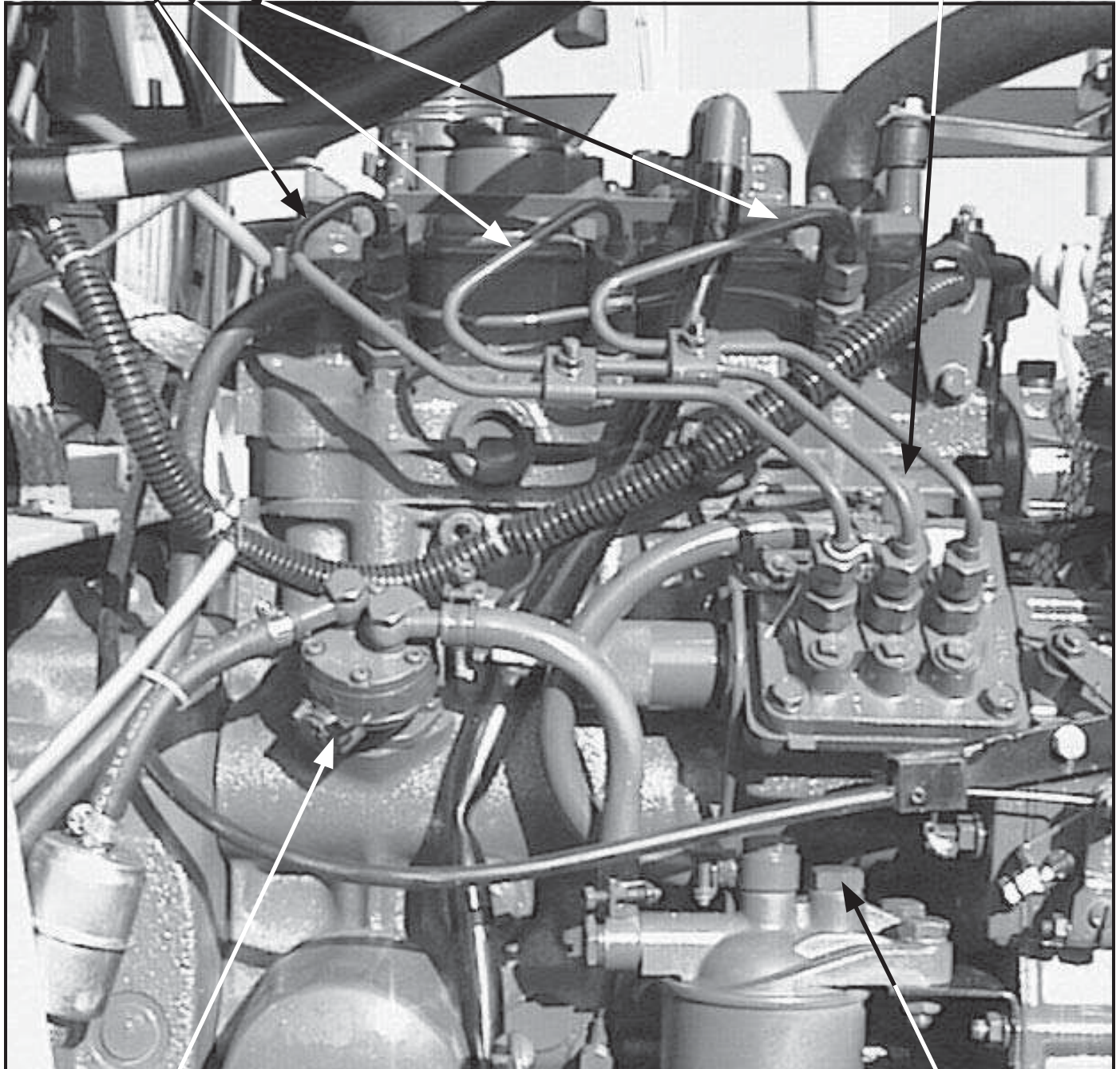
1. Make sure fuel tank has adequate fuel. Make certain fuel filter is full of fuel.
2. Using 19mm wrench loosen bolt on main fuel filter (Fig. A).
3. Operate hand pump using lever (Fig. B) until fuel flows from bolt (Fig. A). If no fuel flows, quickly start and stop engine. Retry hand pump. Repeat if necessary.
4. Tighten bolt (Fig. A).
5. Using 13mm wrench loosen bolt (Fig. C) on top of injector pump.
6. Repeat Step 3 until fuel flows from inlet injector line (Fig C).
7. Tighten bolt (Fig. C).
8. Start engine.
9. Once engine is running, using 18mm wrench loosen nut on injector line (Fig. D) ( **CAUTION:** fuel will be under pressure) when fuel has a good stream and no air is present than tighten nut on injector line (Fig. D). Repeat process on existing injector lines.

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.

Purging Air From Fuel System Service Procedures Continued

**FIG. D
INJECTOR LINES**

**FIG. C
INLET INJECTOR LINE
FOUND BEHIND
INJECTOR LINES**



**FIG. B
PRIMARY HAND
PUMP**

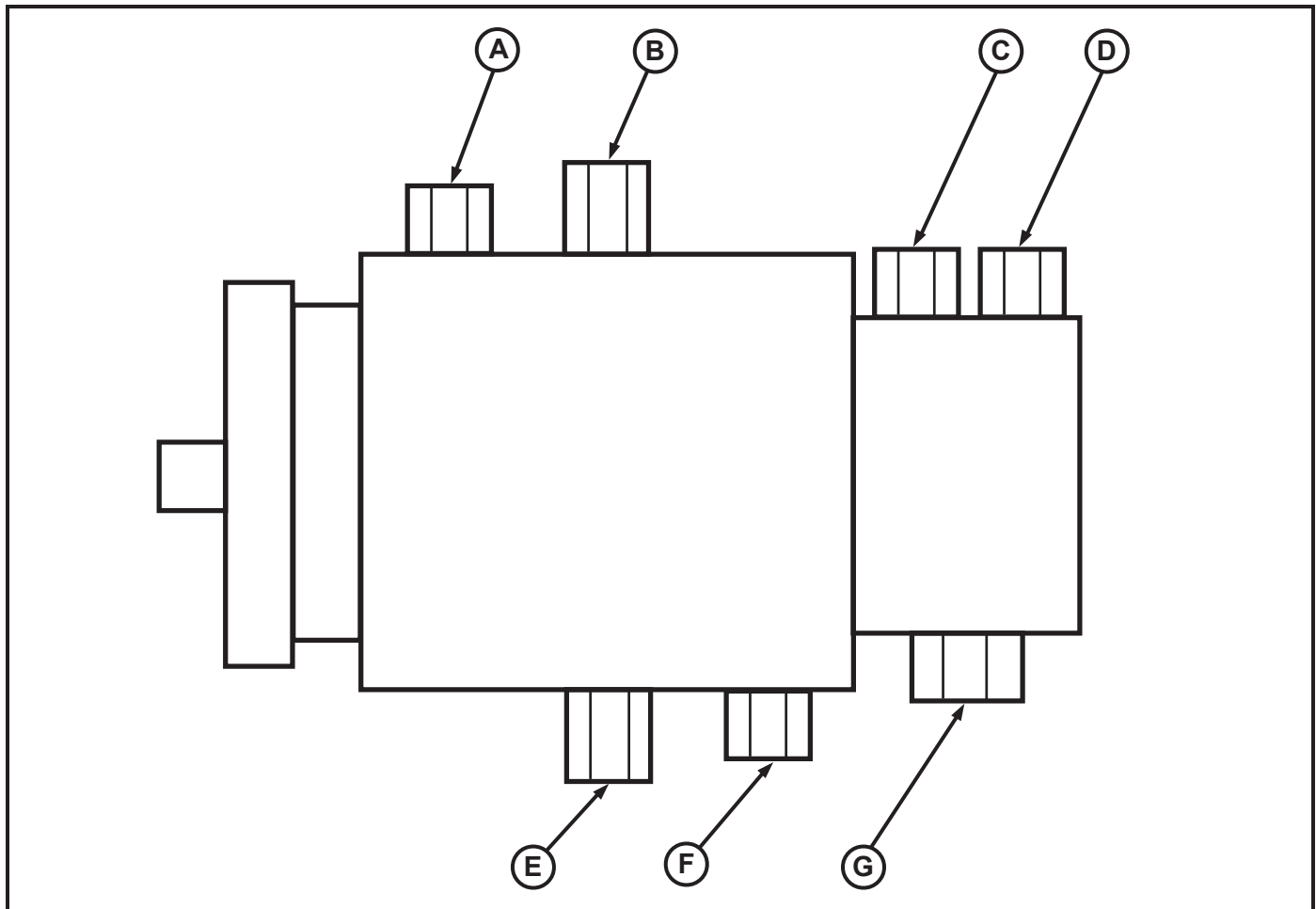
**FIG. A
MAIN FILTER
BASE**



SECTION THREE:

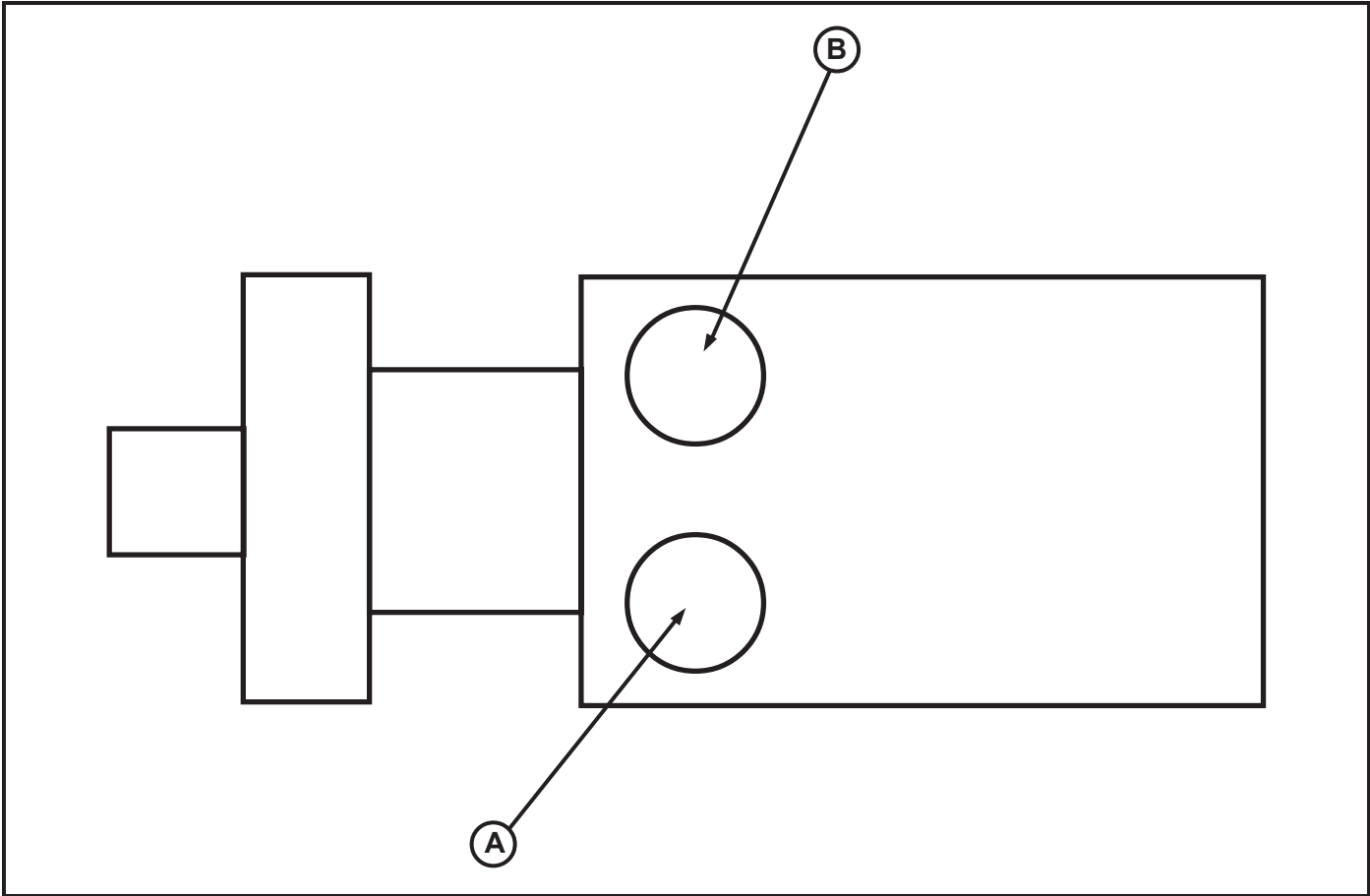
HYDRAULICS

T6 Transmission - 2WD



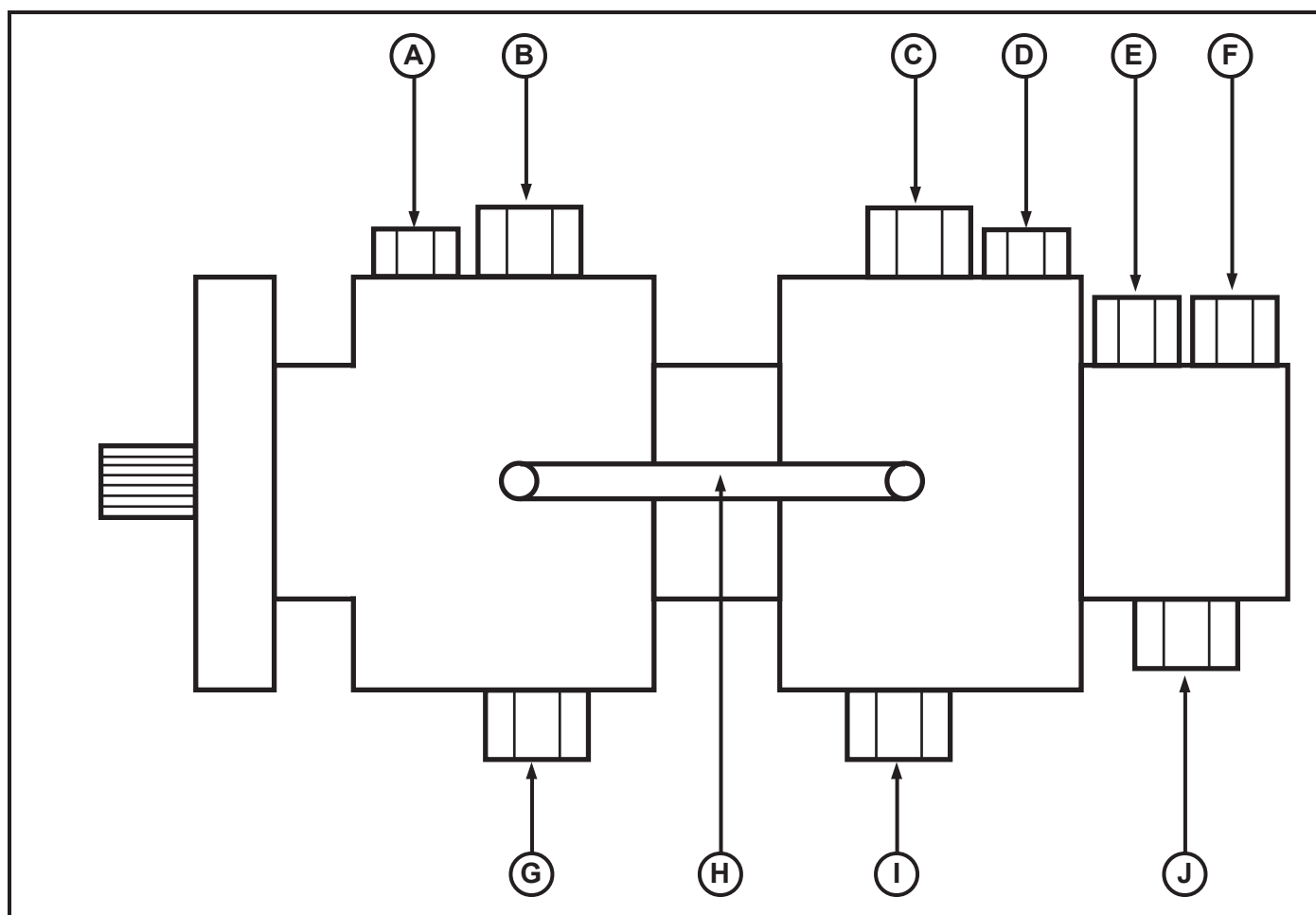
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88614	8-6.14	Discharge Port - Transmission	Oil Tank - Upper return (A) (SEE PAGE 3.14)
B	88820	8-8.20	Exhaust Port - Transmission	Torque Motor - 2WD - (B) (SEE PAGE 3.2)
C	88857	8-8.57	Pressure Port - Gear Pump	Rear Valve Assembly Intake Port (C) (SEE PAGE 3.11)
D	88658	8-6.58	Pressure Port - Gear Pump	Steering Column - Port "P" (B) (SEE PAGE 3.8)
E	88820	8-8.20	Exhaust Port - Transmission	Torque Motor - 2WD - (A) (SEE PAGE 3.2)
F	88820	8-8.20	Charge Intake - Transmission	Oil Tank - Lower Return (C) (SEE PAGE 3.14)
G	81624	8-16.24	Intake Port - Gear Pump	Oil Tank - Intake (D) (SEE PAGE 3.14)

T6 Torque Motor - 2WD



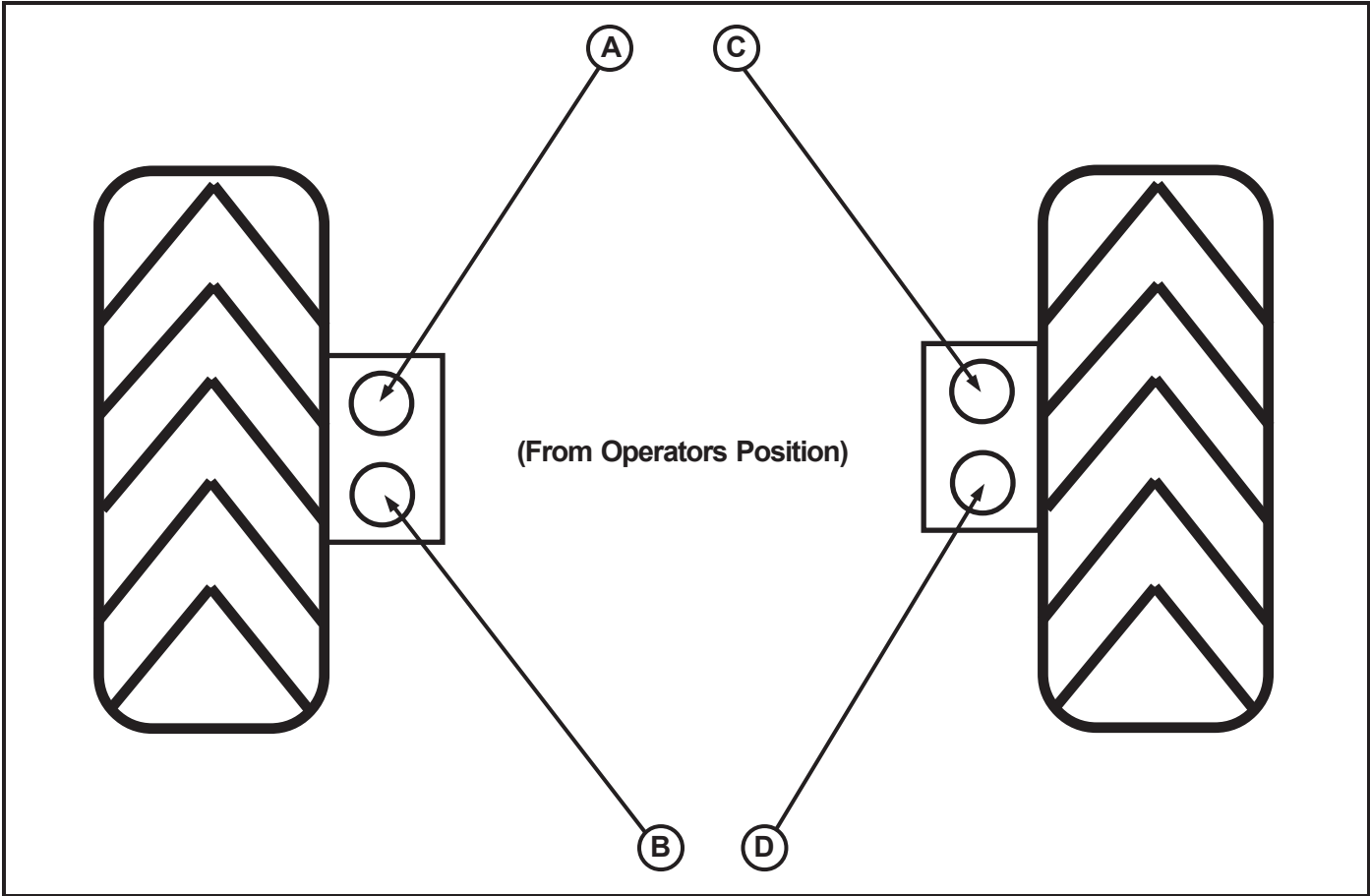
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88820	8-8.20	Torque Motor	Transmission - Exhaust Port E (SEE PAGE 3.1)
B	88820	8-8.20	Torque Motor	Transmission - Exhaust Port B (SEE PAGE 3.1)

T6 Transmission - 4WD



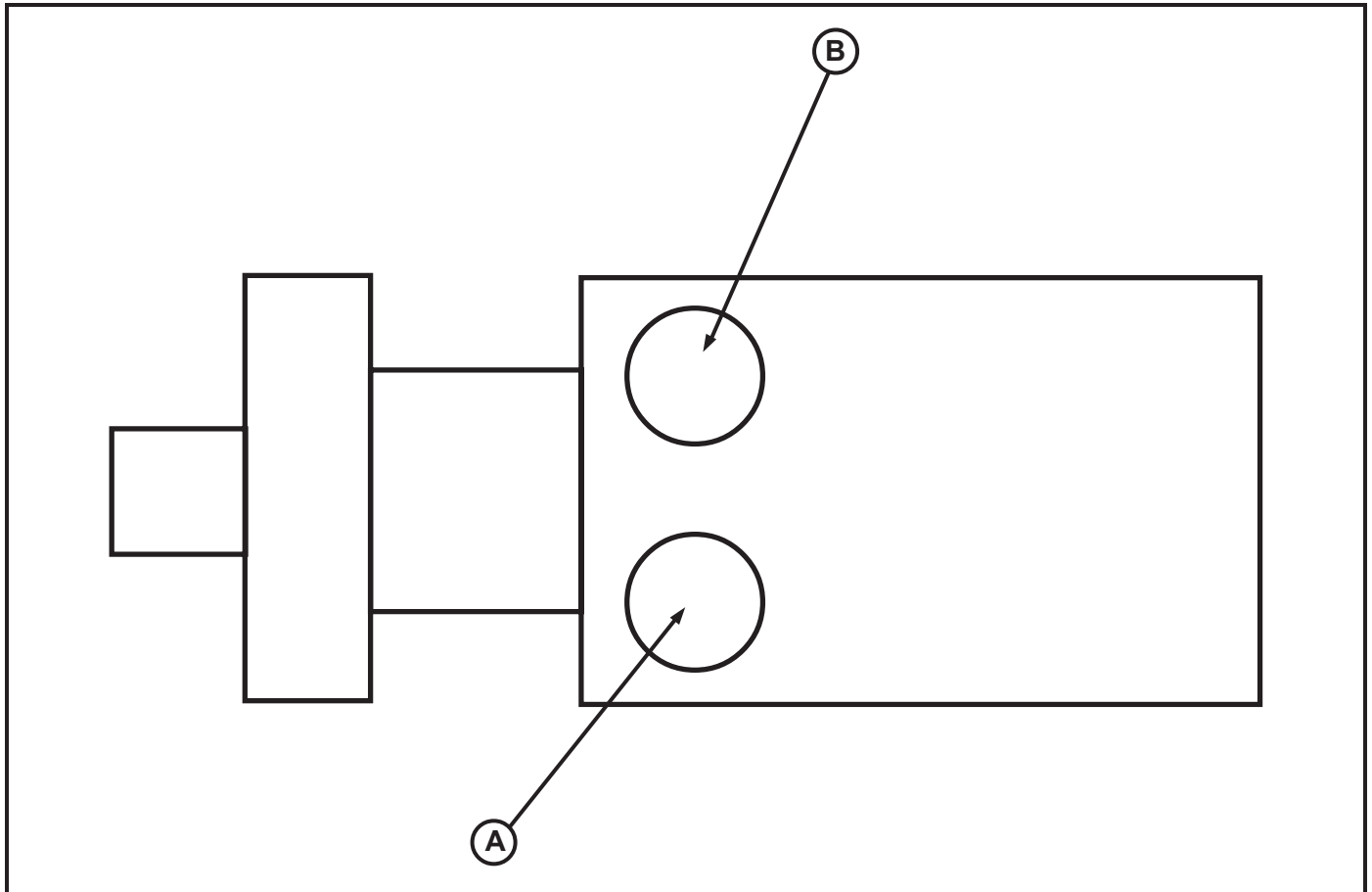
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88614	8-6.14	Discharge Port - Transmission	Oil Tank - Upper Return (A) (SEE PAGE 3.14)
B	80889	8-8.9	Exhaust Port - Transmission	Cartridge Block - (H) (SEE PAGE 3.6)
C	88181	8-8.18.1	Exhaust Port - Transmission	Cartridge Block - (I) (SEE PAGE 3.6)
D	88184	8-8.18.4	Charge Intake - Transmission	Oil Tank - Lower Return (C) (SEE PAGE 3.14)
E	88845	8-8.45	Pressure Port - Gear Pump	Rear Valve Assembly - Intake Port (C) (SEE PAGE 3.11)
F	88658	8-6.58	Pressure Port - Gear Pump	Steering Column - Port P (B) (SEE PAGE 3.8)
G	88181	8-8.18.1	Exhaust Port - Transmission	Cartridge Block - (G) (SEE PAGE 3.6)
H	88608	88608	Charge Pump - Transmission	Charge Pump - Transmission
I	88181	8-8.18.1	Exhaust Port - Transmission	Cartridge Block - (J) (SEE PAGE 3.6)
J	81624	8-16.24	Intake Port - Gear Pump	Oil Tank - Intake (D) (SEE PAGE 3.14)

T6 4WD Front Axle Assembly



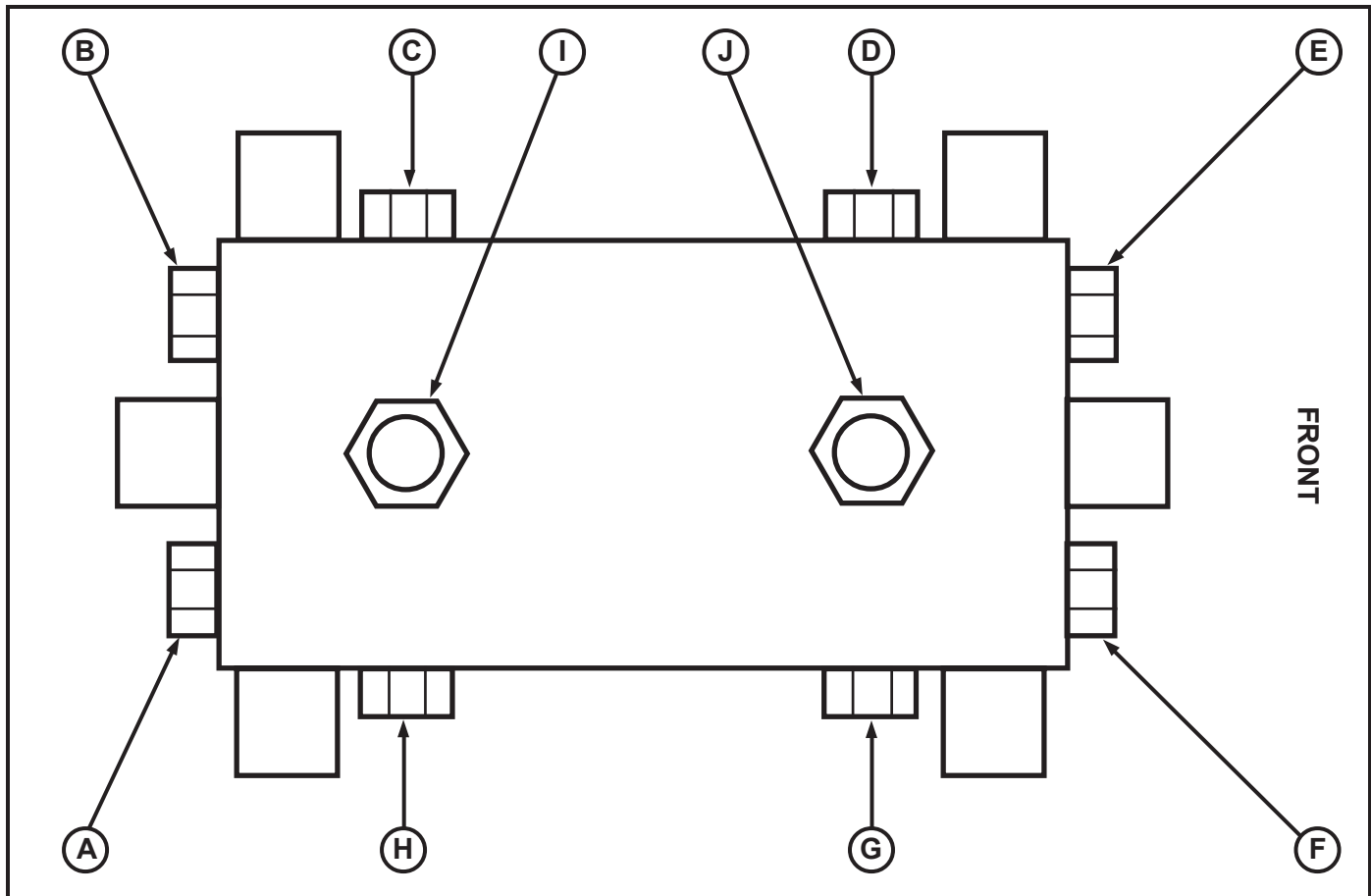
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88465	8-4.65	Upper Port - Left Motor	Cartridge Block - (E) (SEE PAGE 3.6)
B	88465	8-4.65	Lower Port - Left Motor	Cartridge Block - (A) (SEE PAGE 3.6)
C	88465	8-4.65	Upper Port - Right Motor	Cartridge Block - (F) (SEE PAGE 3.6)
D	88465	8-4.65	Lower Port - Right Motor	Cartridge Block - (B) (SEE PAGE 3.6)

T6 Torque Motor - 4WD



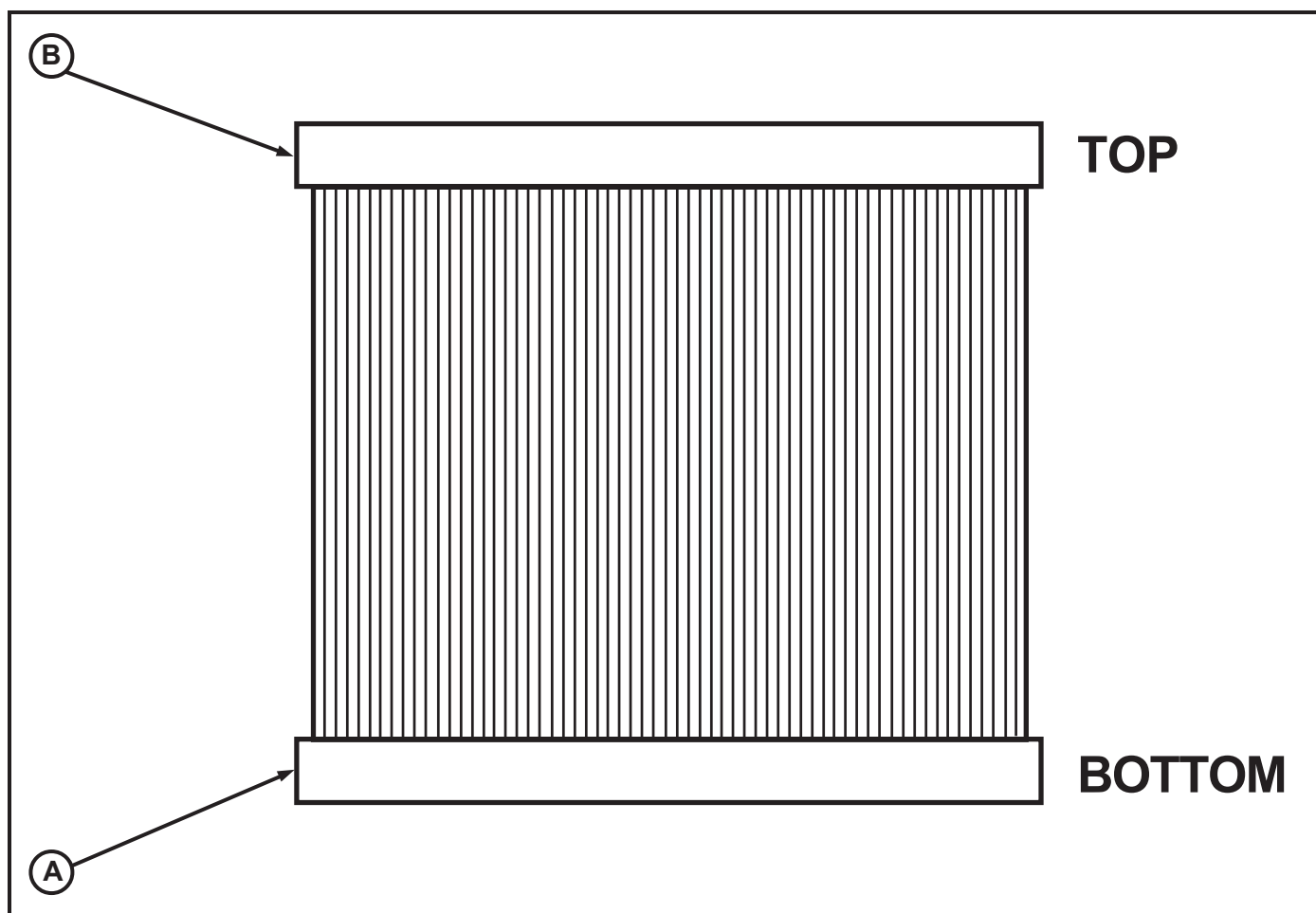
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88181	8-8.18.1	Torque Motor	Cartridge Block - (D) (SEE PAGE 3.6)
B	88817	88817	Torque Motor	Cartridge Block - (C) (SEE PAGE 3.6)

T6 4WD Cartridge Block



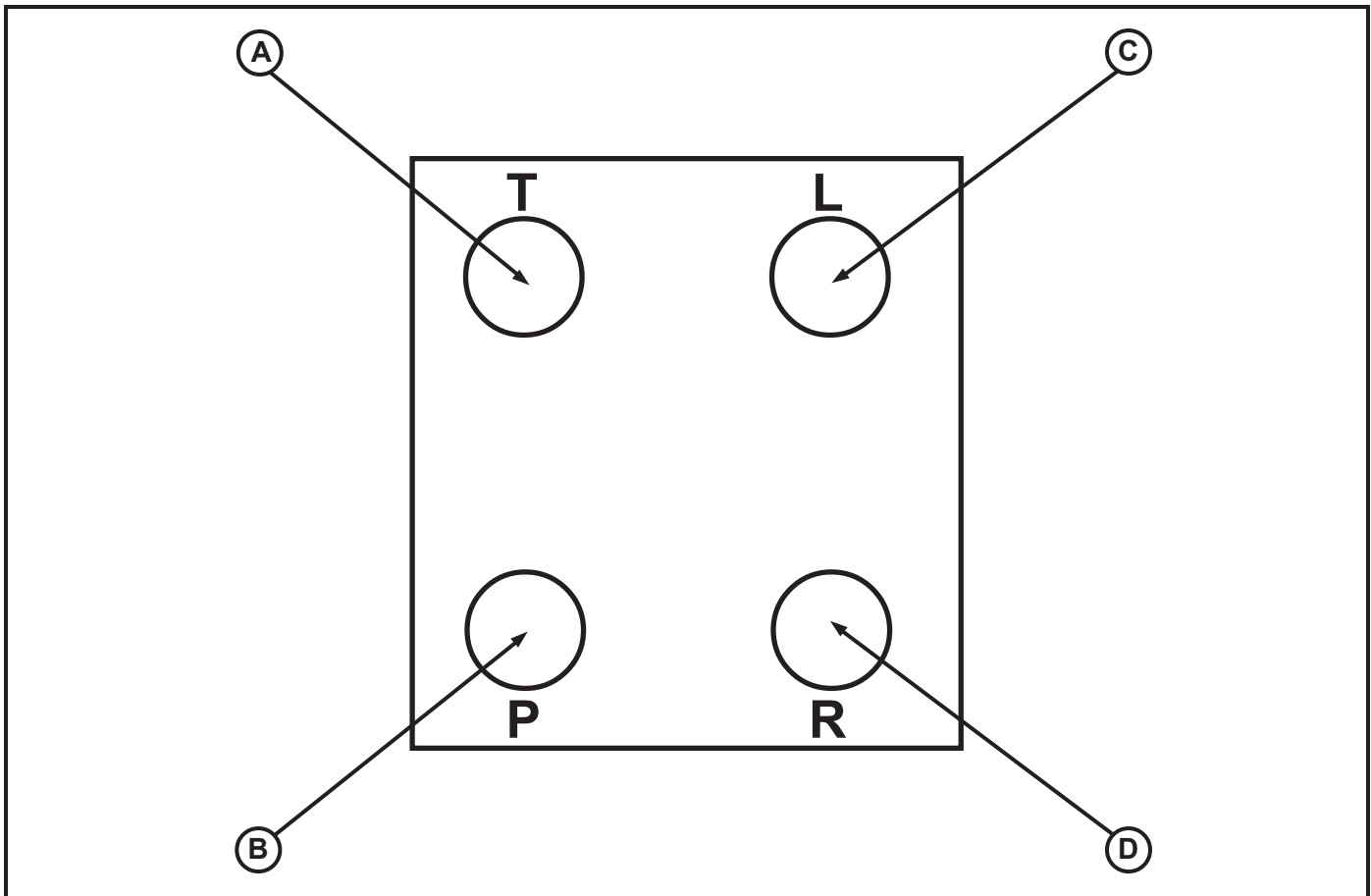
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88465	8-4.65	Cartridge Block	Front Axle Assembly - (D) (SEE PAGE 3.4)
B	88465	8-4.65	Cartridge Block	Front Axle Assembly - (A) (SEE PAGE 3.4)
C	88817	88817	Cartridge Block	Torque Motor - (B) (SEE PAGE 3.5)
D	88181	8-8.18.1	Cartridge Block	Torque Motor - (A) (SEE PAGE 3.5)
E	88465	8-4.65	Cartridge Block	Front Axle Assembly - (C) (SEE PAGE 3.4)
F	88465	8-4.65	Cartridge Block	Front Axle Assembly - (B) (SEE PAGE 3.4)
G	88181	8-8.18.1	Cartridge Block	Transmission - Exhaust Port (G) (SEE PAGE 3.3)
H	80889	8-8.9	Cartridge Block	Transmission - Exhaust Port (B) (SEE PAGE 3.3)
I	88181	8-8.18.1	Cartridge Block	Transmission - Exhaust Port (C) (SEE PAGE 3.3)
J	88181	8-8.18.1	Cartridge Block	Transmission - Exhaust Port (I) (SEE PAGE 3.3)

T6 Oil Cooler



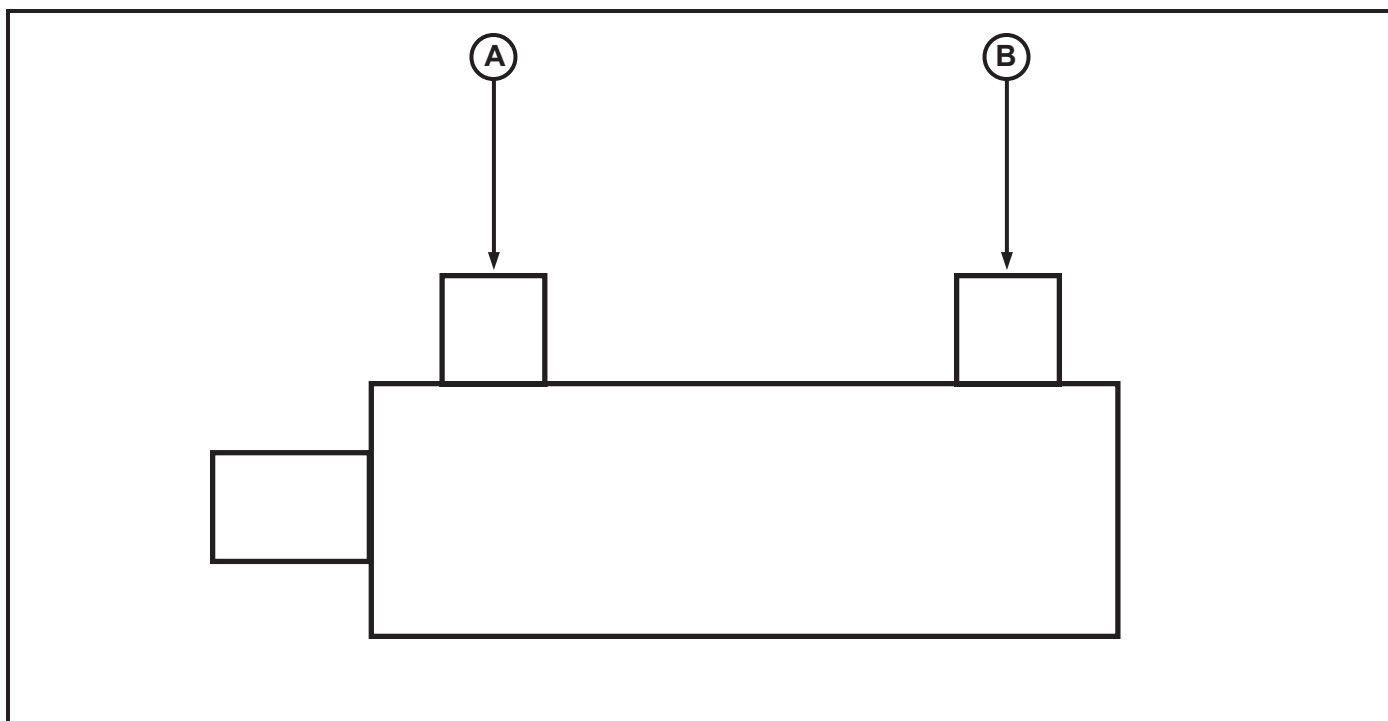
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88100	8-8.100	Return - Oil Cooler	Drive System Block - (A) (SEE PAGE 3.13)
B	88831	88831	Intake - Oil Cooler	Front Valve Assembly - Return (A) (SEE PAGE 3.10)

T6 Steering Column 2WD and 4WD



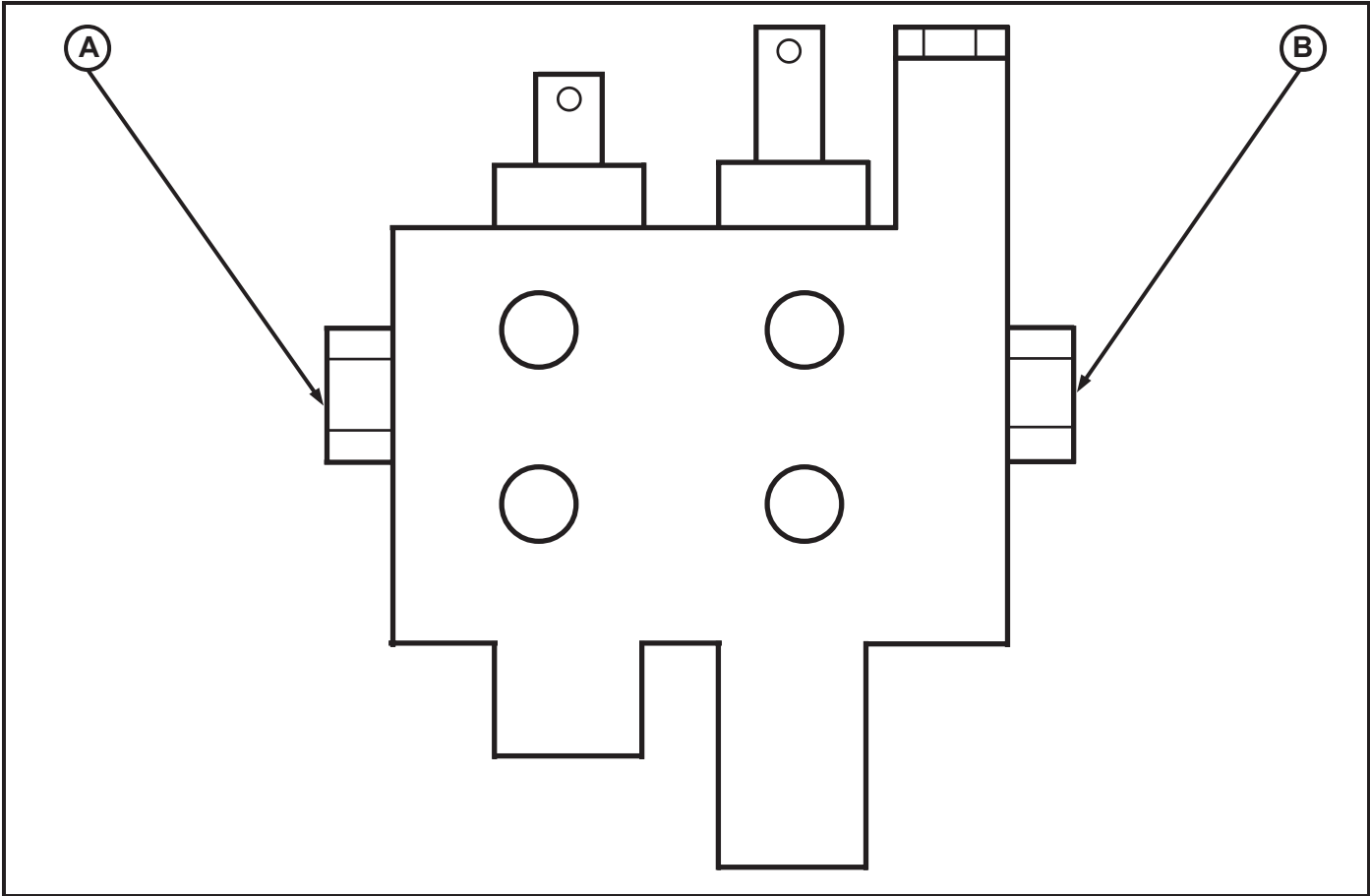
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88658	8-6.58	"T" Port Steering Column	Drive System Block - (B) (SEE PAGE 3.13)
B	88658	8-6.58	"P" Port Steering Column	Transmission - Gear Pump 2WD (D) (SEE PAGE 3.1)
	88658	8-6.58	"P" Port Steering Column	Transmission - Gear Pump 4WD (F) (SEE PAGE 3.3)
C	88465	8-4.65	"L" Port Steering Column	Steering Cylinder - (A) (SEE PAGE 3.9)
D	88465	8-4.65	"R" Port Steering Column	Steering Cylinder - (B) (SEE PAGE 3.9)

T6 Power Steering Cylinder



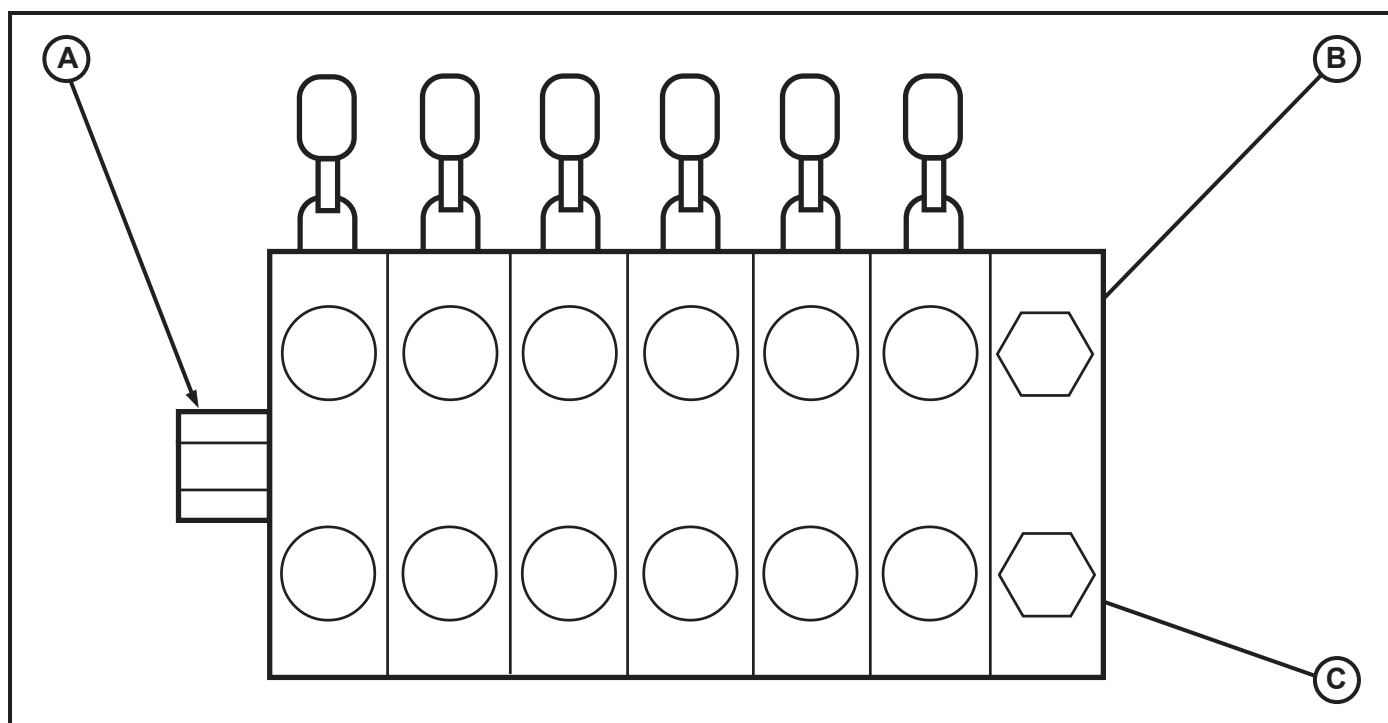
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88465	8-4.65	Steering Cylinder	Steering Column - Port "L"  (SEE PAGE 3.8)
B	88465	8-4.65	Steering Cylinder	Steering Column - Port "R"  (SEE PAGE 3.8)

T6 Loader Valve Assembly



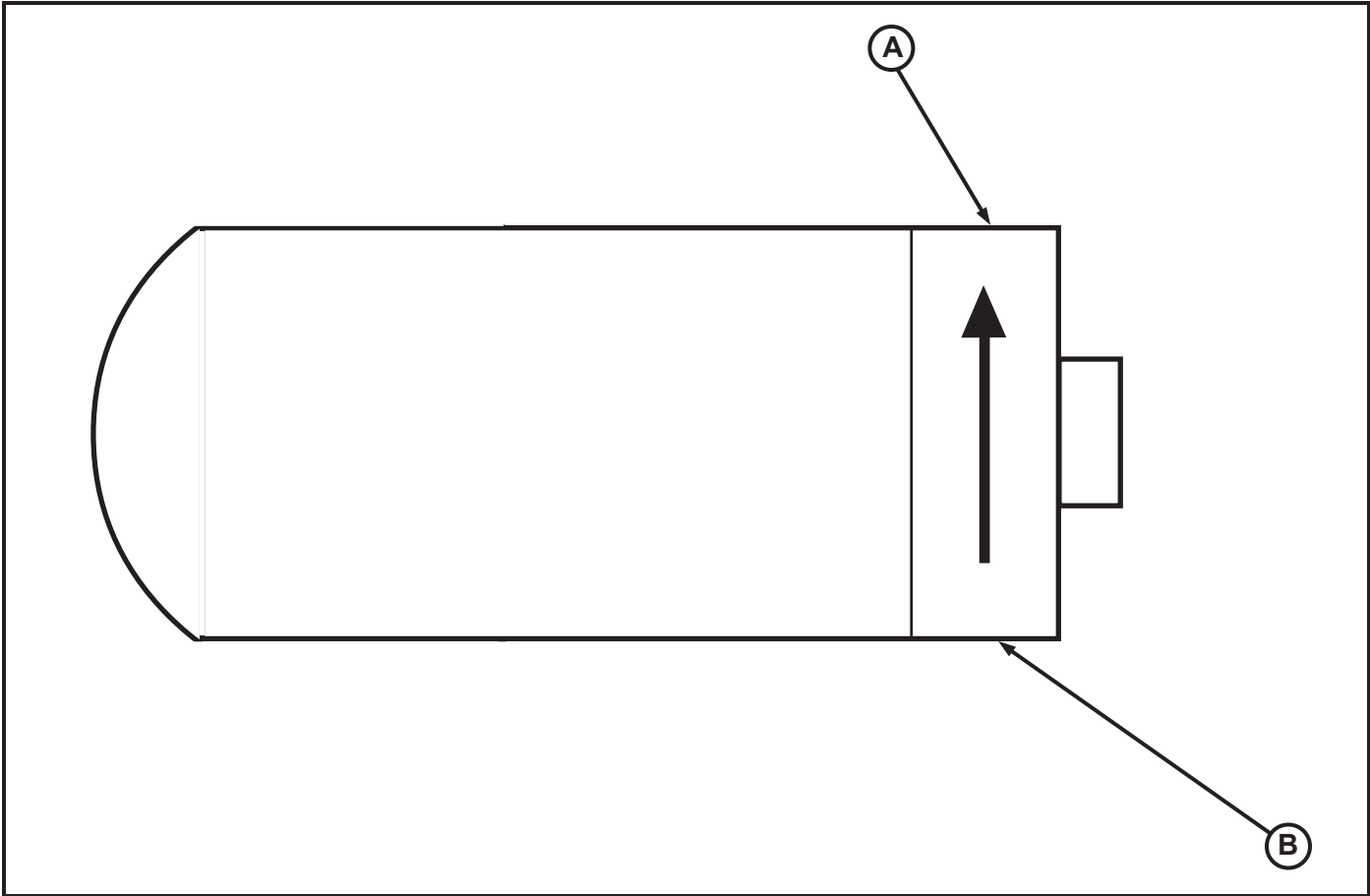
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88831	88831	Return - Front Valve Assembly	Oil Cooler (B) (SEE PAGE 3.7)
B	88880	8-8.80	Intake - Front Valve Assembly	Rear Valve Assembly - Pressure Port (A) (SEE PAGE 3.11)

T6 Backhoe Valve Assembly



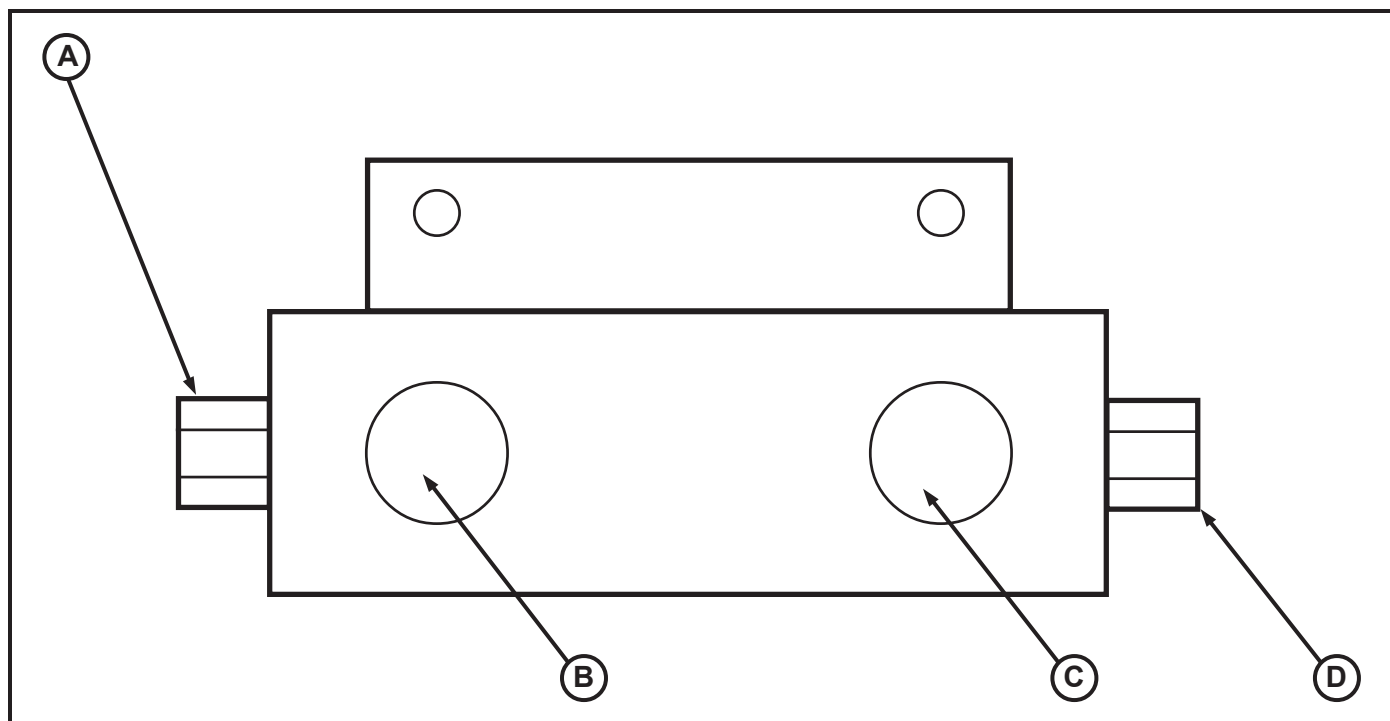
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88880	8-8.80	Pressure Port - R. Valve Assembly	Front Valve - Intake (B) (SEE PAGE 3.10)
B	88840	8-8.40	Return Port - R. Valve Assembly	Drive System Block - (C) (SEE PAGE 3.13)
C	88857	8-8.57	Intake Port - R. Valve Assembly	Transmission Gear Pump 2WD (C) (SEE PAGE 3.1)
	88845	8-8.45	Intake Port - R. Valve Assembly	Transmission Gear Pump 4WD (E) (SEE PAGE 3.3)

T6 Filter Assembly



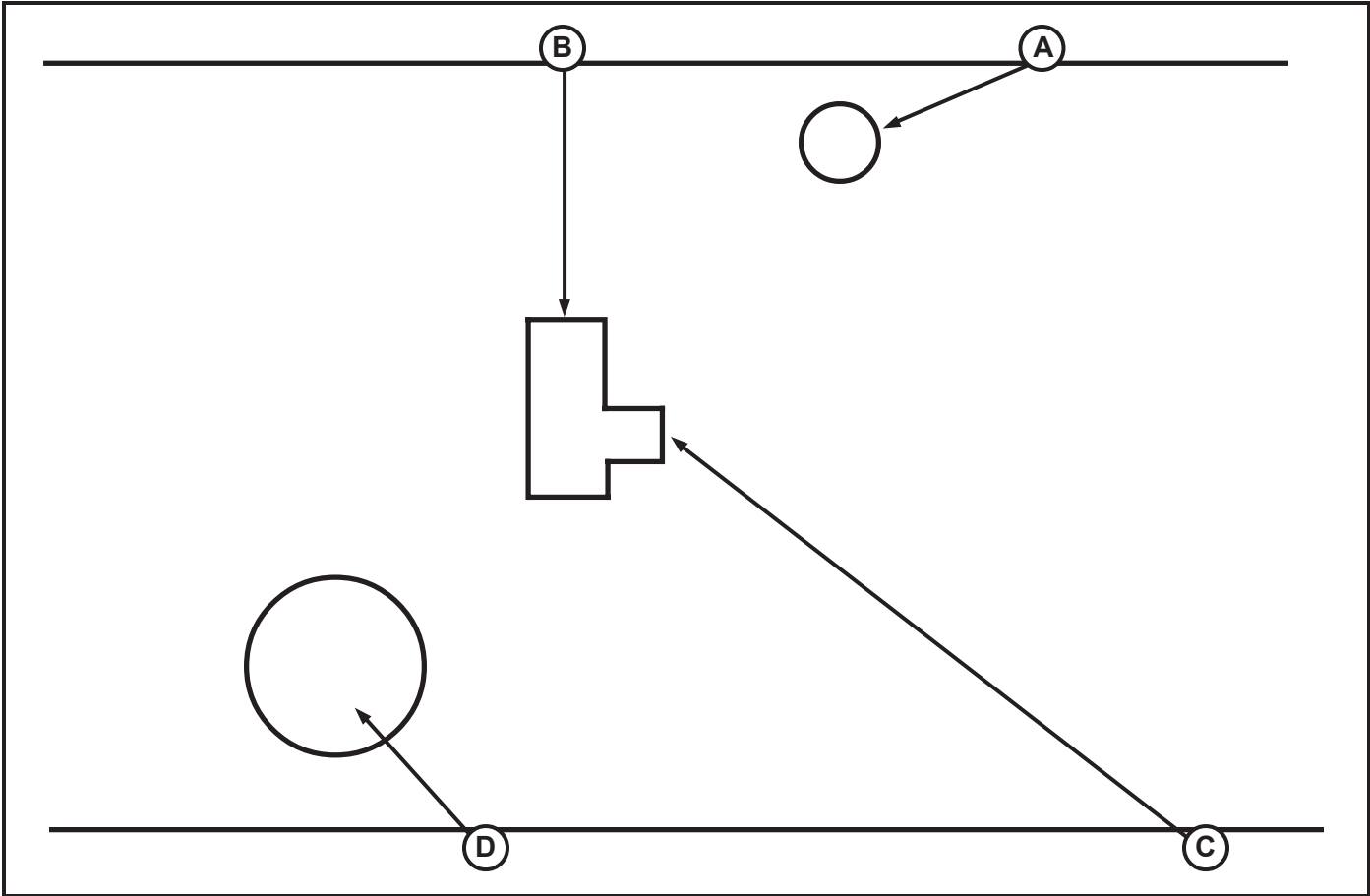
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	81028	8-10.28	Filter - Return Line	Oil Tank - Lower Dump (B) (SEE PAGE 3.14)
B	81012	8-10.12	Filter - Intake Line	Drive System Block - (D) (SEE PAGE 3.13)

T6 Drive System Distributor Block



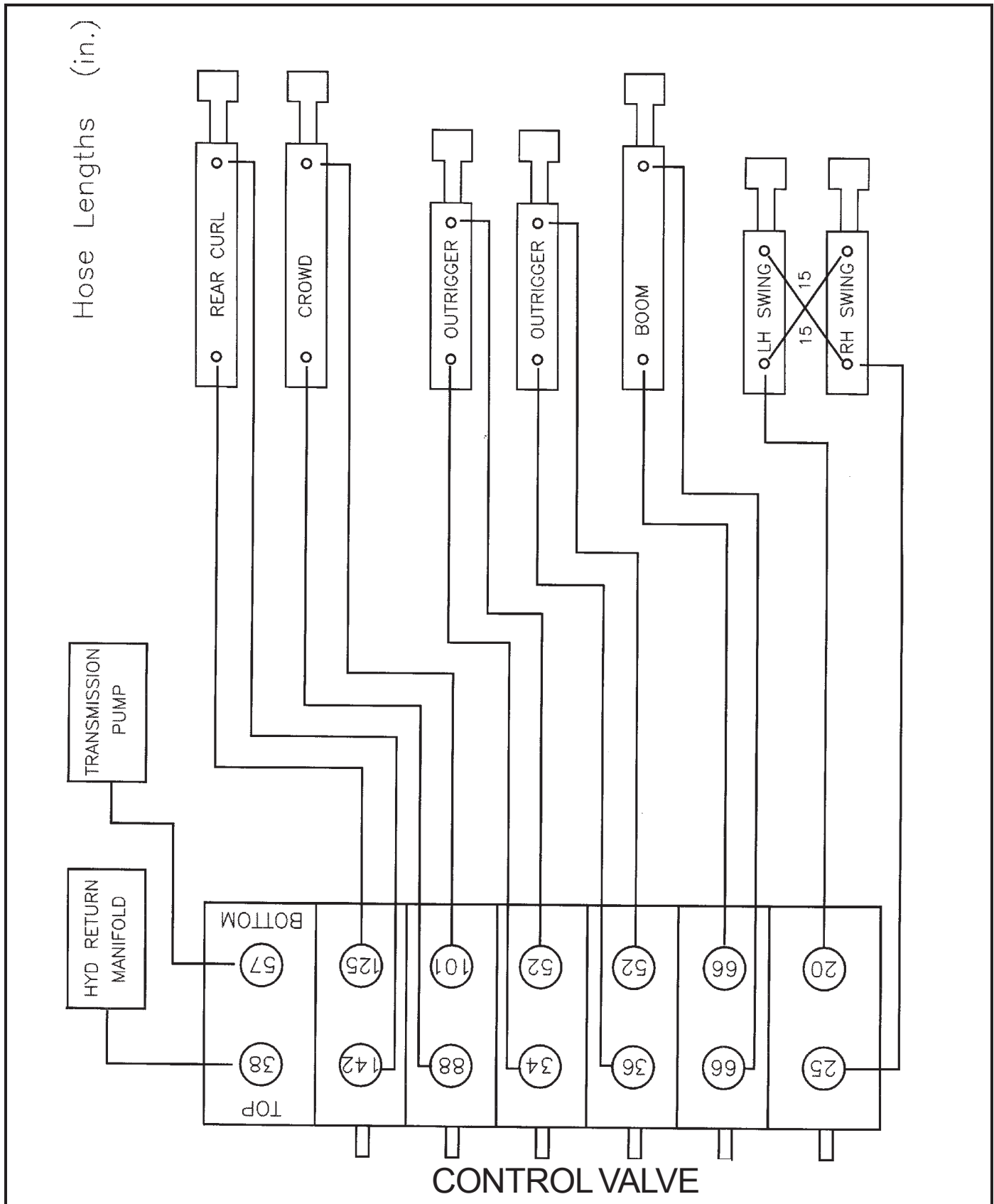
HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88100	8-8.100	Port A	Oil Cooler - Return Line (A) (SEE PAGE 3.7)
B	88658	8-6.58	Port B	Steering Column - Port "T" (A) (SEE PAGE 3.8)
C	88840	8-8.40	Port C	R. Valve - Return (B) (SEE PAGE 3.11)
D	81012	8-10.12	Port D	Filter - Intake (B) (SEE PAGE 3.12)

T6 Hydraulic Oil Tank Assembly

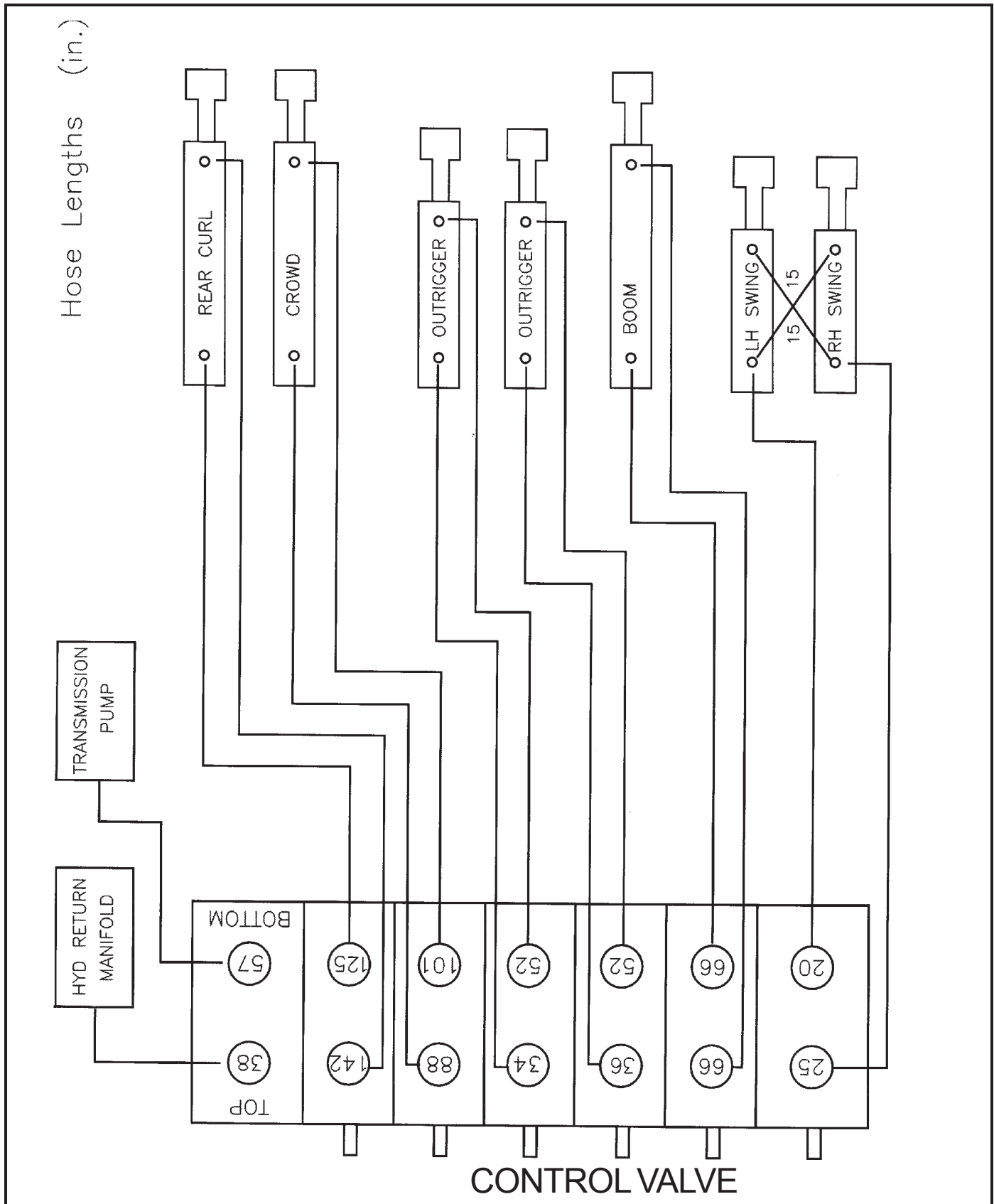


HOSE	PART NUMBER	PREVIOUS PART NUMBER	STARTING POINT	ENDING POINT
A	88614	8-6.14	Oil Tank - Upper Return	Transmission - Discharge (A) (SEE PAGE 3.3)
B	81028	8-10.28	Oil Tank - Lower Return	Filter Assembly - Return (A) (SEE PAGE 3.12)
C	88820	8-8.20	Oil Tank - Lower Return	Transmission - Charge Intake 2WD (F) (SEE PAGE 3.1)
	88184	8-8-18.4	Oil Tank - Lower Return	Transmission - Charge Intake 4WD (D) (SEE PAGE 3.3)
D	81624	8-16.24	Oil Tank - Intake	Transmission - Gear Pump Intake 4WD (J) (SEE PAGE 3.3)

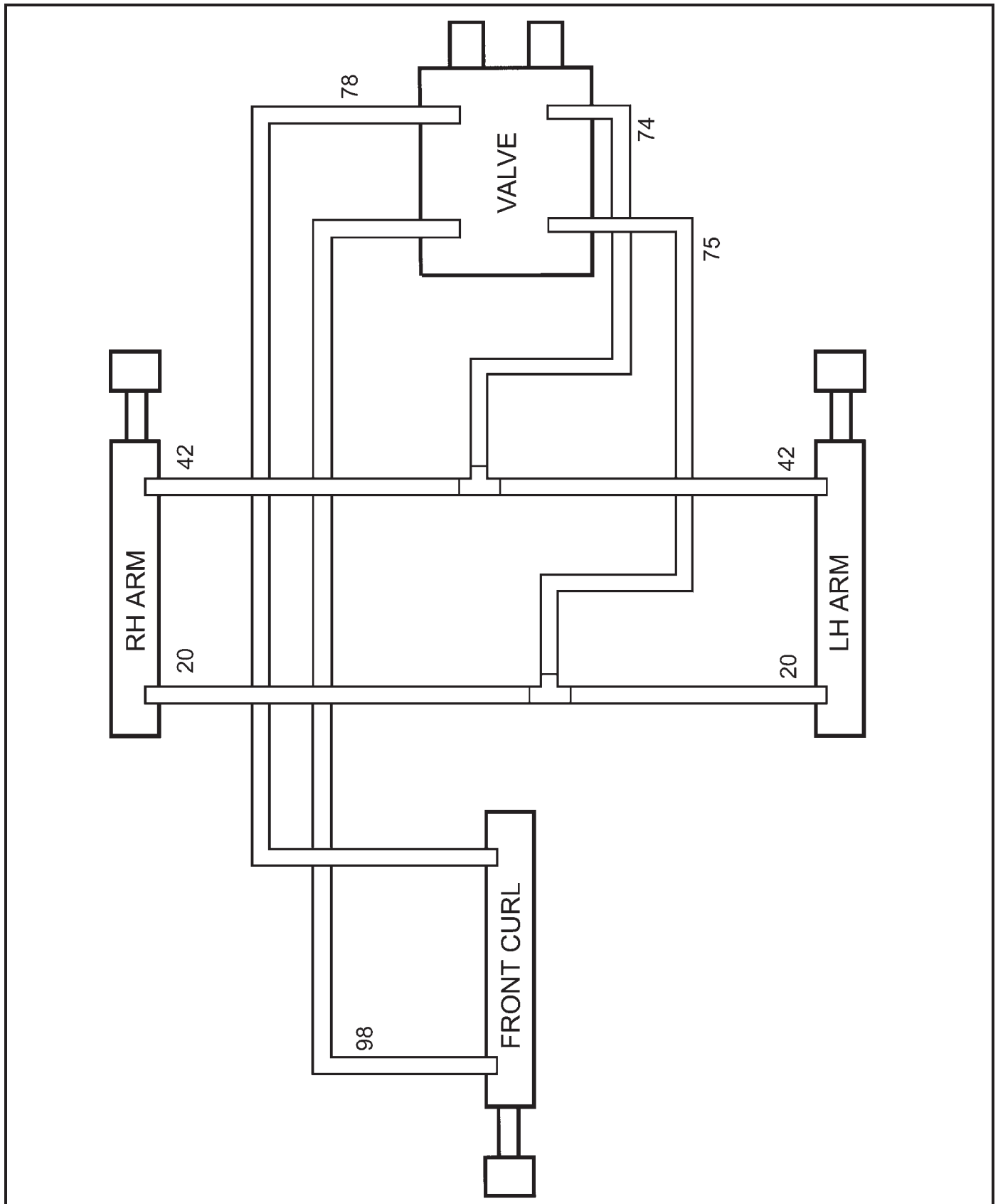
T6 Backhoe Hydraulic Circuit Wobblestick Hose Digram 2WD & 4WD



T6 Backhoe Hydraulic Circuit Wobblestick Hose Diagram 4WD



T6 Loader Hydraulic Circuit Hose Lengths (in.)



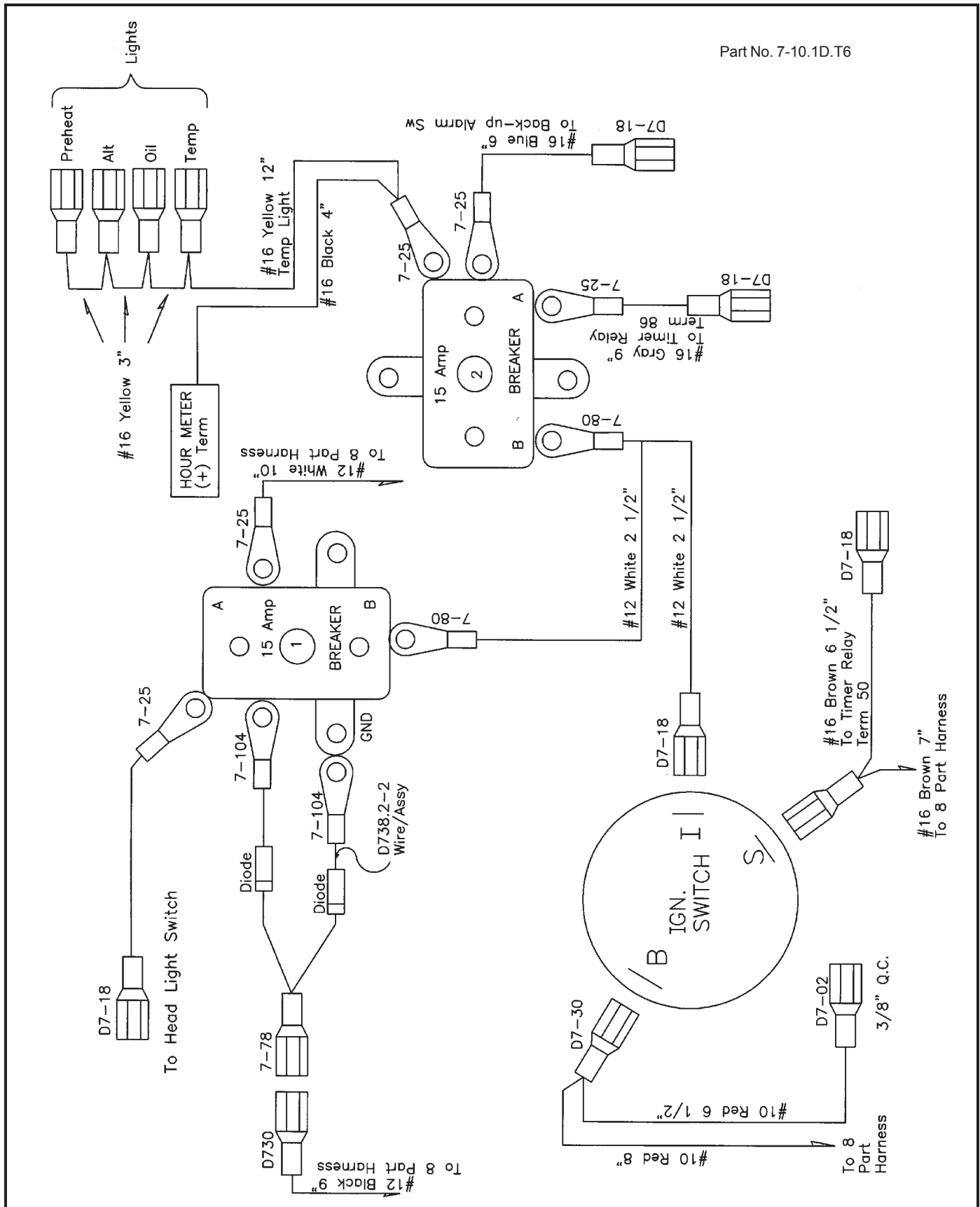


SECTION FOUR:

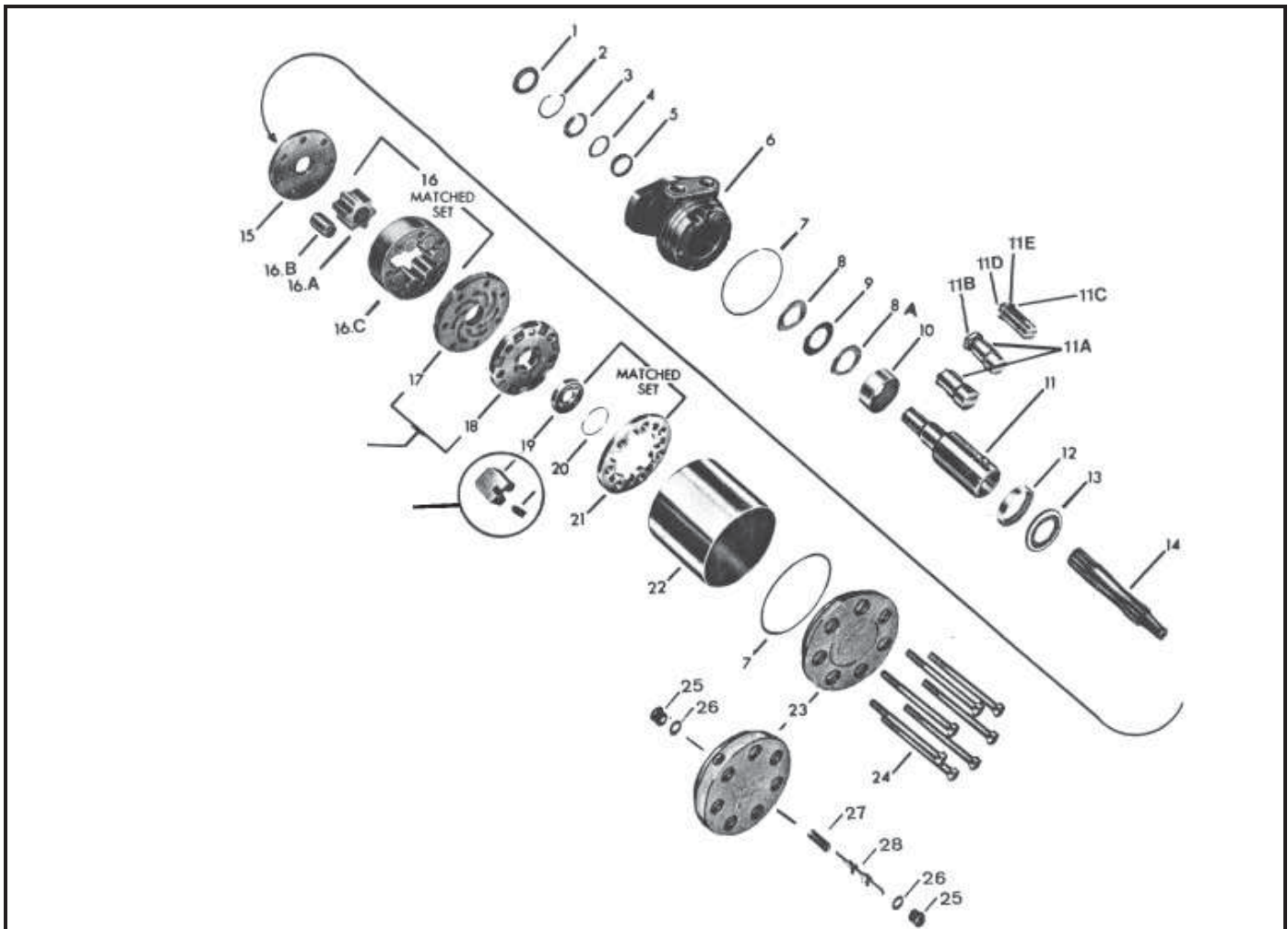
COMPONENTS

T6 Wiring Diagram - Perkins 103-15

Part No. 7-10.1D.T6

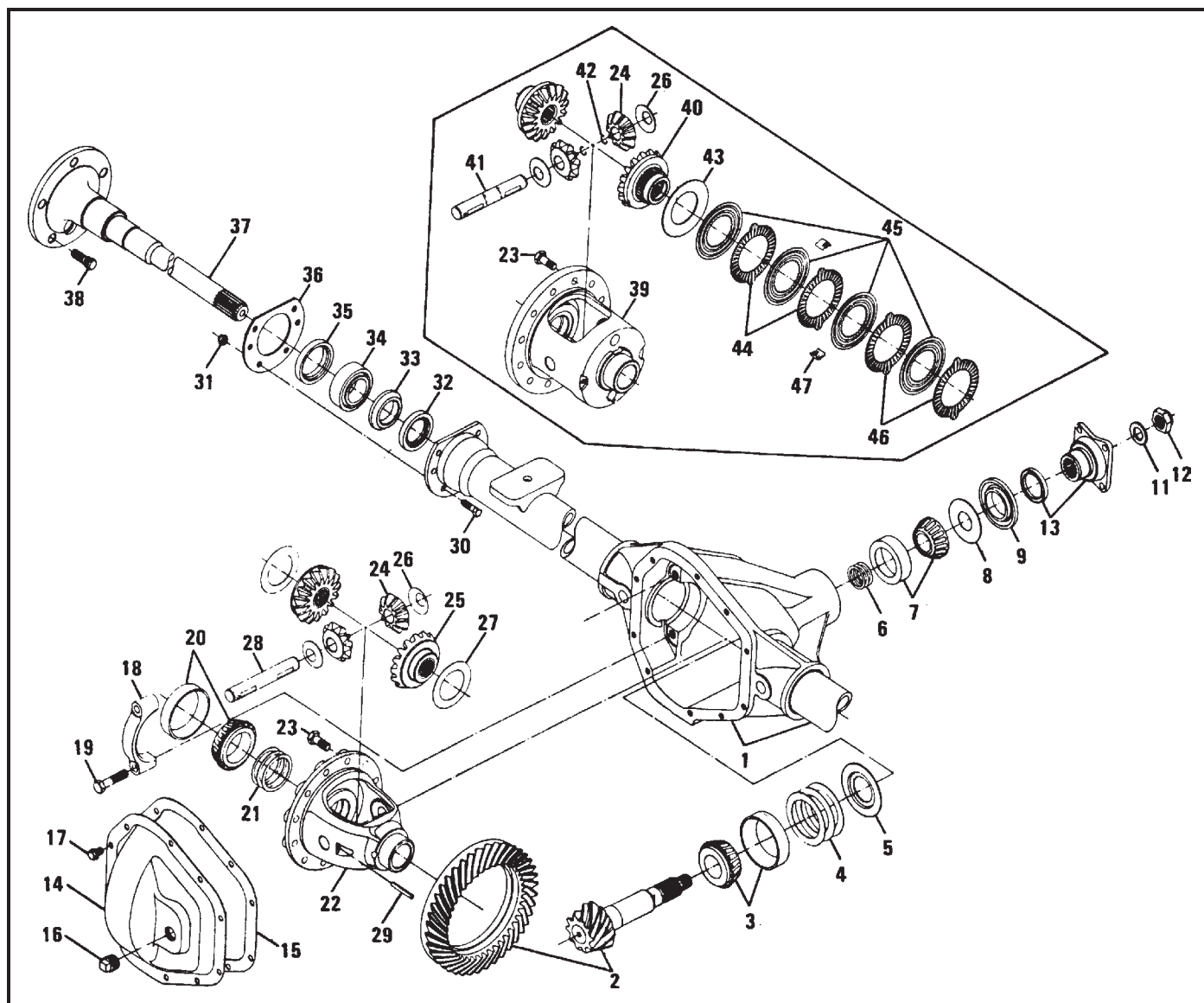


MAB/MAE Torquemotor Exploded Assembly View - Typical



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	Spring
11	Coupling Shaft	16C	Stator	28	Valve (Shuttle)
11A	Key				

Rear Axle Assembly



ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	DANA PART NO.	QTY.
1	55010	5-01	Housing-Axle	*	
2	64004	64004	Gear & Pinion Ass'y-Drive	*	
3	55030	5-03	Kit-Inner Pinion Bearing	706031X	
4	55040	5-04	Shim-Drive Pinion Adjusting	*	
5	55050	5-05	Baffle-Pinion Bearing	*	
6	55060	5-06	Shim-Pinion Bearing Adjusting	*	
7	55070	5-07	Kit-Outer Pinion Bearing	706030X	
8	55080	5-08	Slinger-Pinion Bearing Outer	*	
9	55090	5-09	Seal-Pinion	35723	
10	55100	5-10	End Yoke Assembly	3-4-5761X	

Continued On Next Page

Rear Axle Assembly (Continued)

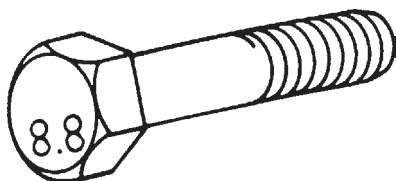
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	DANA PART NO.	QTY.
11	55110	5-11	Washer-Pinion Nut	30186	
12	55120	5-12	Nut-Pinion	30185	
13	55130	5-13	Companion Flange Assembly	2-1-1881X	
14	55140	5-14	Cover-Carrier	*	
15	55150	5-15	Gasket-Carrier Cover	34685	
16	55160	5-16	Plug-Cover	36472	
17	55170	5-17	Bolt-Carrier Cover	34279	
18	55180	5-18	Cap-Differential Bearing	**	
19	55190	5-19	Bolt-Differential Bearing Cap	500400-20	
20	55200	5-20	Kit-Differential Bearing	706032X	
21	55210	5-21	Shim-Differential Bearing	*	
22	55220	5-22	Case-Differential	*	
23	55230	5-23	Bolt-Drive Gear	30187	
24	55240	5-24	Pinion-Differential	*	
25	55250	5-25	Gear-Differential	*	
26	55260	5-26	Thrust Washer-Differential Pinion	*	
27	55270	5-27	Thrust Washer-Differential Gear	*	
28	55280	5-28	Shaft-Differential	*	
29	55290	5-29	Lock-Differential Shaft	13449	
30	55300	5-30	Bolt-Break Mounting	34616-1	
31	55310	5-31	Nut-Brake Mounting	35704	
32	55320	5-32	Seal-Shaft Inboard	34419	
33	55330	5-33	Ring-Wheel Bearing Retaining	32755	
34	55340	5-34	Bearing Assembly	565903	
35	55350	5-35	Seal-Shaft Outboard	35239	
36	55360	5-36	Retainer-Oil Seal	35490	
37	55370	5-37	Shaft-Axle Flanged	*	
38	55380	5-38	Bolt-Wheel	35491	
LIMITED SLIP DIFFERENTIAL (TRAC-LOK) STD. ON SER #9975236 & UP					
39	55390	5-39	Case-Differential	*	
40	55400	5-40	Gear-Differential	*	
41	55410	5-41	Shaft-Differential	*	
42	55420	5-42	Ring-Snap	*	
43	55430	5-43	Spacer-Differential Gear (Dished)	*	
44	55440	5-44	Plate-Differential	*	
45	55450	5-45	Disc-Differential	*	
46	55460	5-46	Plate-Differential (Selective Thickness)	*	
47	55470	5-47	Clip-Differential Clutch Retainer	*	

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*
 standard thread	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.)]

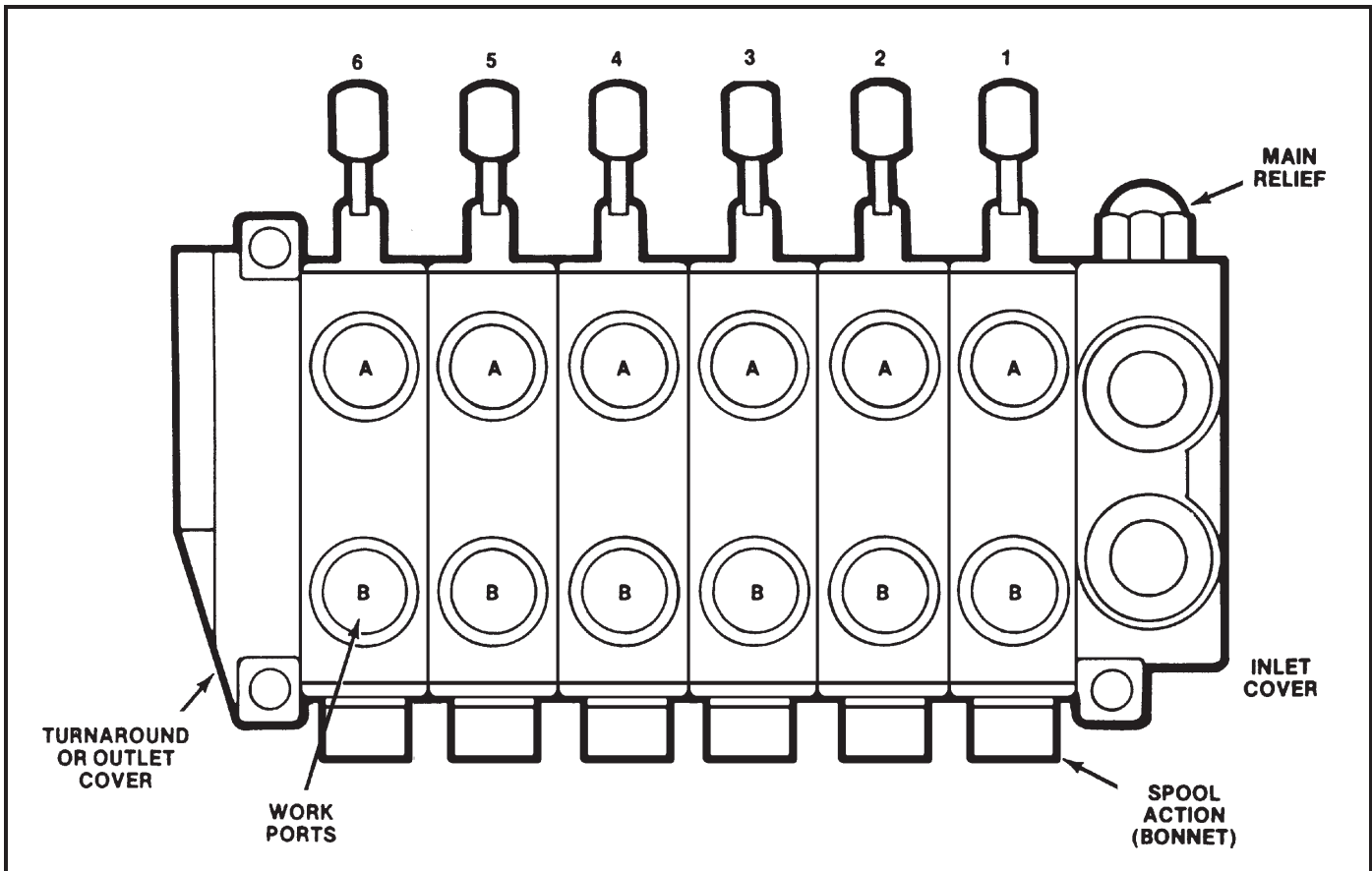
The chart on the right gives the torque for bolts and nuts with Grade 8.8.

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.

Metric ISO Thread		
Thread Size	Torque	
(mm)	(N·m*)	(Lb. Ft.)
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



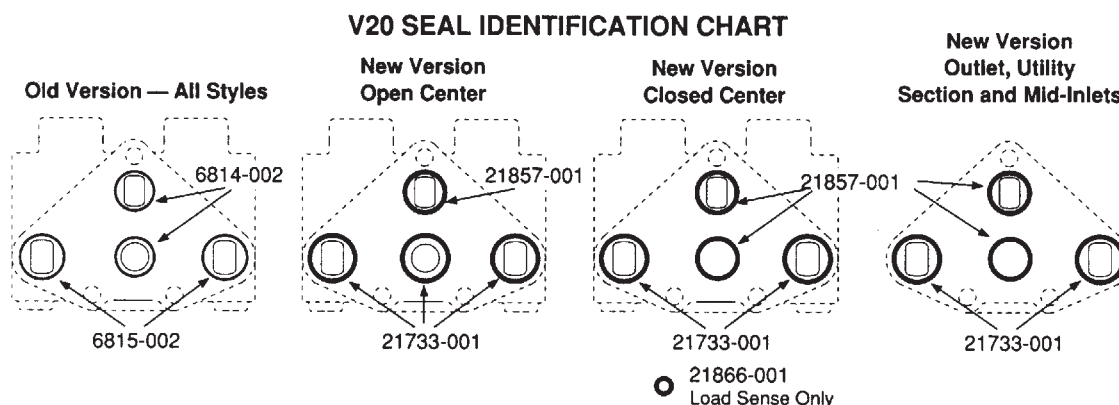
1. Before disassembly, it is suggested that each valve section be marked numerically to avoid incorrect reassembly.
2. Remove three assembly stud nuts from the left end section using a $\frac{9}{16}$ " thin wall socket.
3. Remove valve sections by sliding from assembly studs.

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.



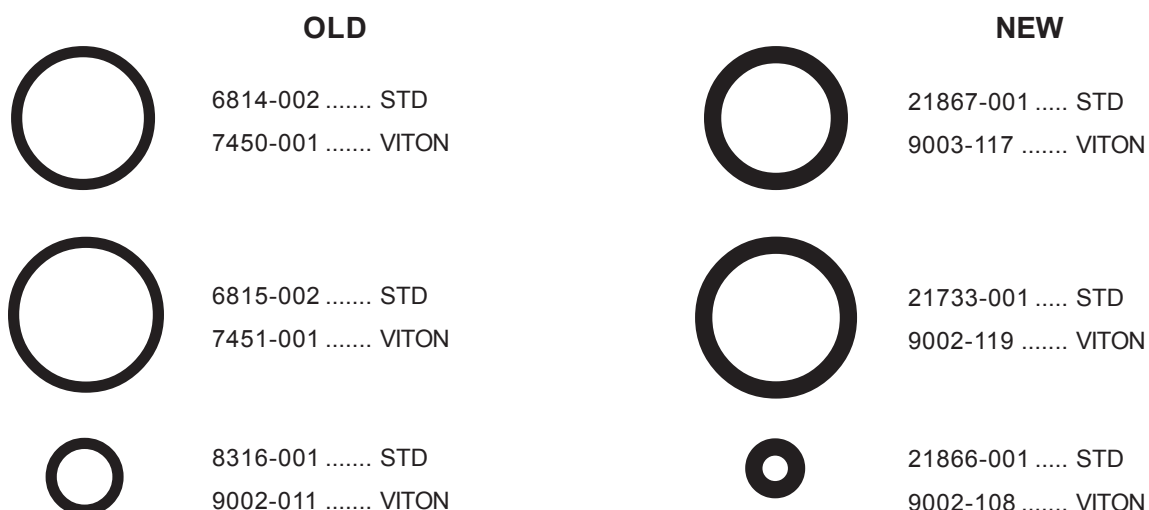
The following section seals are included in the Kits:

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.

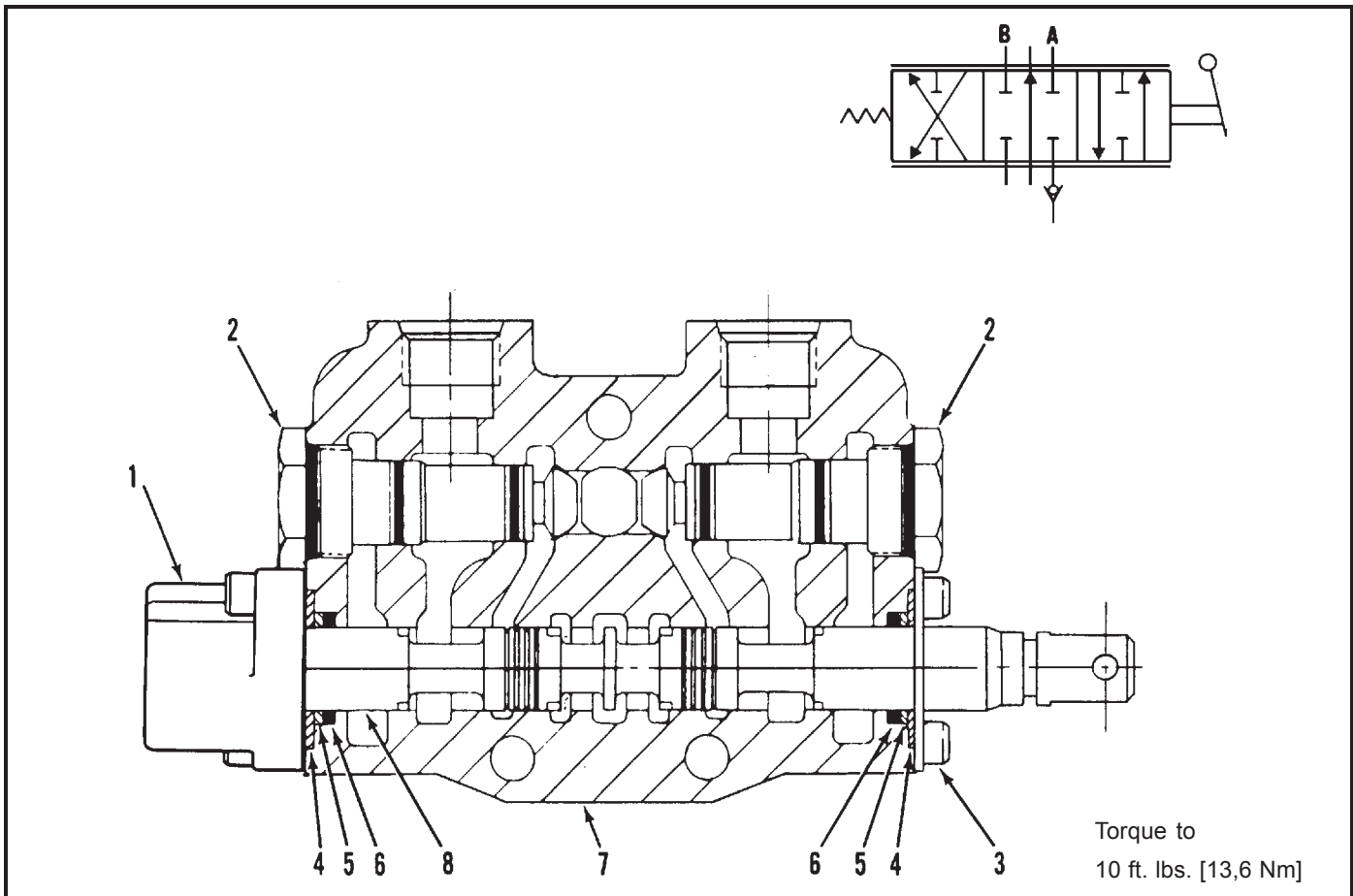
K-6121 Section Seal Kit, One Section
 K-6027 Complete Seal Kit, 3 or 4 Way Section
 K-6028 Complete Seal Kit, 4 Way Float Section
 K-6209 Complete Seal Kit, Series 3 or 4 Way Section
 K-6210 Complete Seal Kit, Series 4 Way Float Section
 K-6154 Complete Seal Kit, Load Sensing 4 Way Float
 K-6155 Complete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



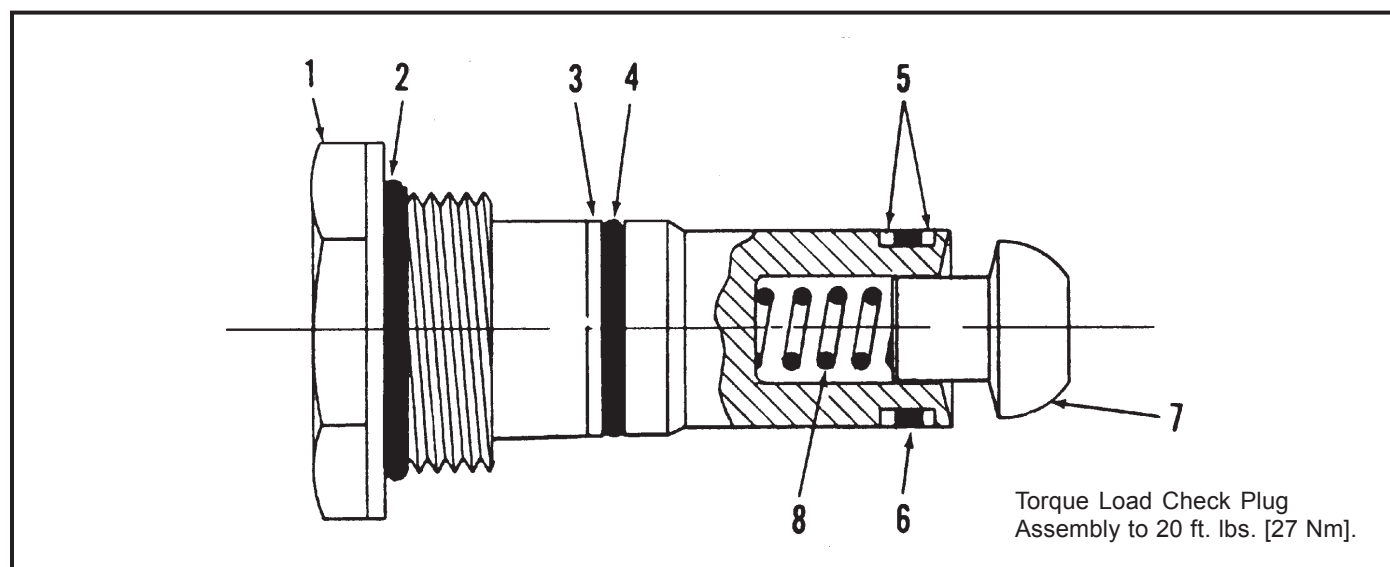
ITEM NO.	DESCRIPTION	QUANTITY PER SECTION
1	POSITIONER, Spool, Standard	1
2	CHECK, Load	2
3	RETAINER ASSEMBLY, Standard, Includes Screws	1
4	RETAINER, Plate Washer	2
5	WASHER, Back-Up	} See Note 1 2
6	SEAL, O-Ring	
7	HOUSING, Standard	} See Note 1 1
8	SPOOL, 4-Way	

Notes:

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

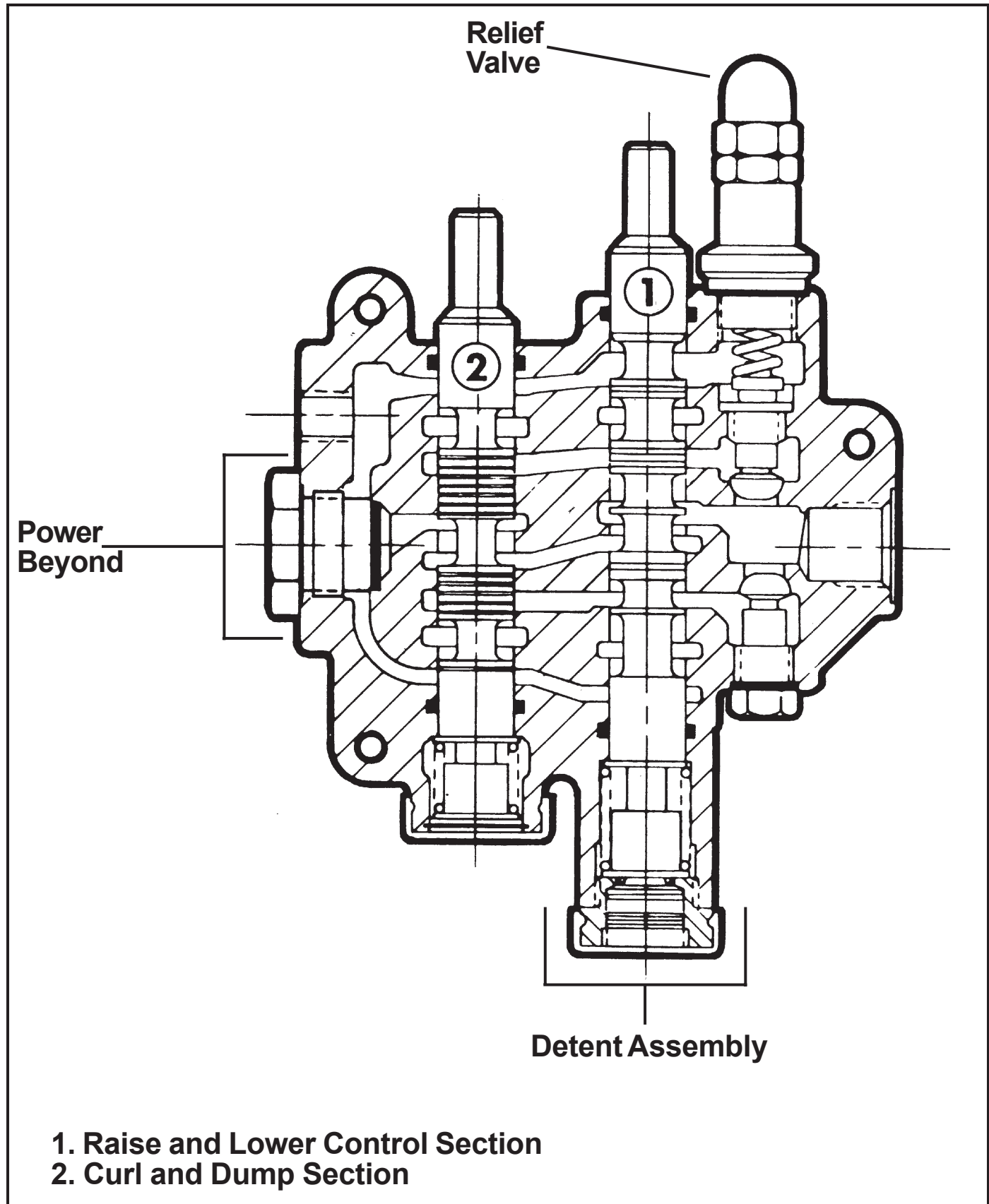
Buna-N seals are standard for all Gresen valve assemblies. Optional Viton seals are available.

Load Check Plug Assembly

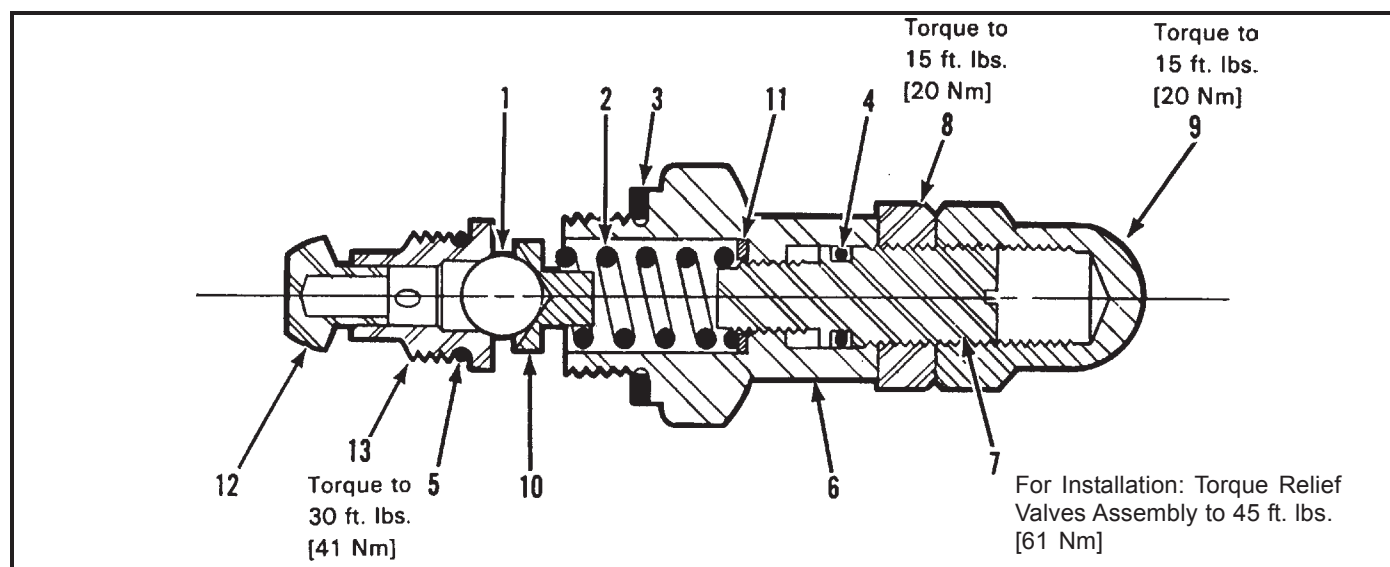


ITEM NO.	DESCRIPTION	QUANTITY PER PLUG ASSEMBLY
	REPLACEMENT LOAD CHECK PLUG ASSEMBLY	
	SEAL KIT, (Contains items 2, 3, 4, 5 and 6)	
1	PLUG, Lift Check, Steel (Heavy Duty)	1
2	SEAL, O-Ring	1
3	WASHER, Back-Up, Outer	1
4	SEAL, O-Ring, Outer	1
5	WASHER, Back-Up, Inner	2
6	SEAL, O-Ring	1
7	POPPET, Lift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

SPK Monoblock Valve



Model J-HP High Pressure Relief



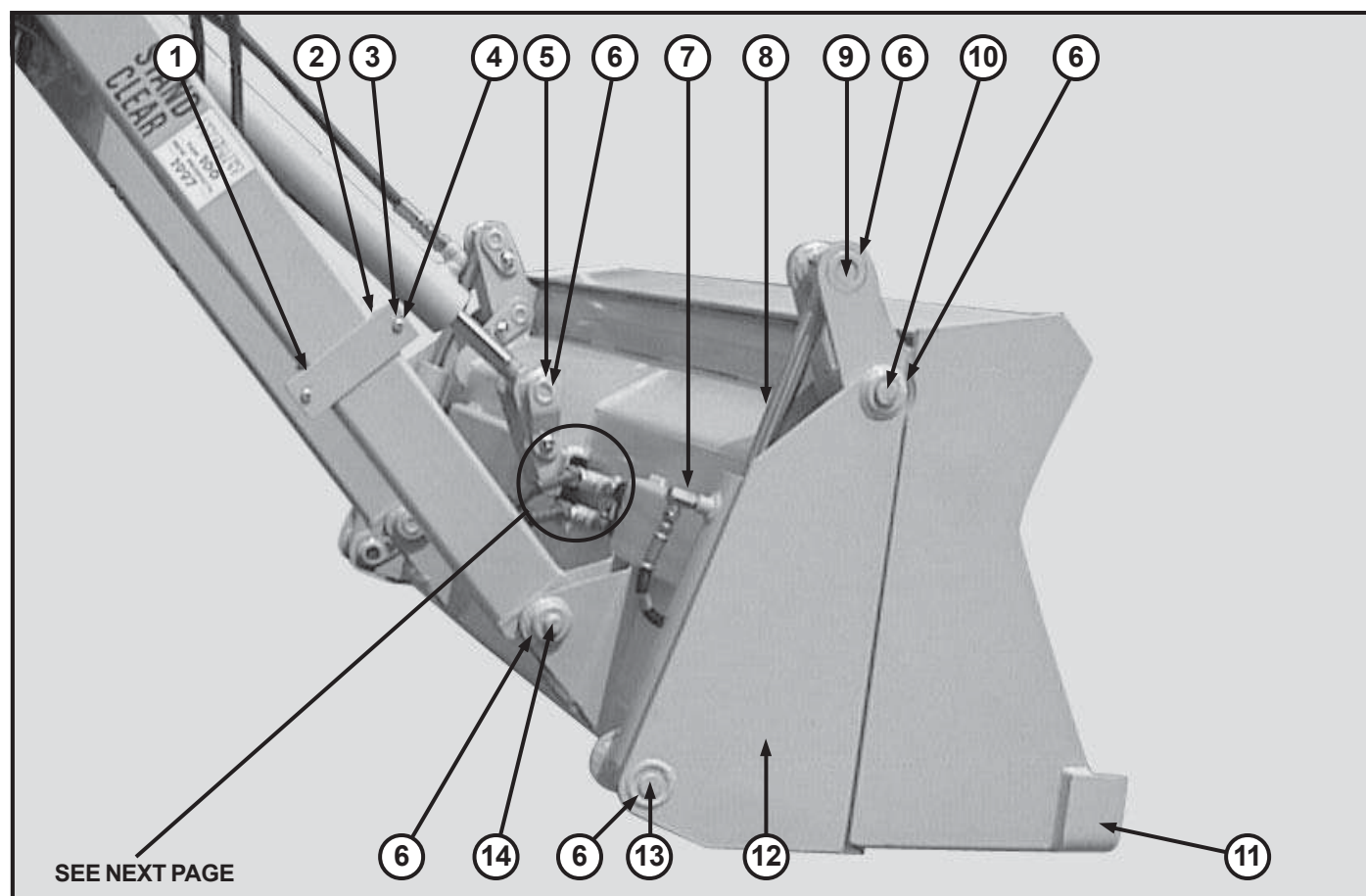
ITEM NO.	DESCRIPTION	QUANTITY PER PLUG ASSEMBLY
1	BALL	1
2	SPRING, Relief (Model SP only)	1
	SPRING, Relief (Models SPK and SSK only)	1
3	GASKET, Relief Body	1
4	O-RING, Adjusting Screw	1
5	O-RING, Valve Seat	1
6	BODY	1
7	SCREW, Adjusting	1
8	NUT, Jam, Adjusting Screw	1
9	NUT, Acorn Cap	1
10	GUIDE, Spring	1
11	WASHER, Spacer (SP)	1
	WASHER, Spacer (SPK)	2
12	POPPET, Check	1
13	SEAT, Valve	1



SECTION FIVE

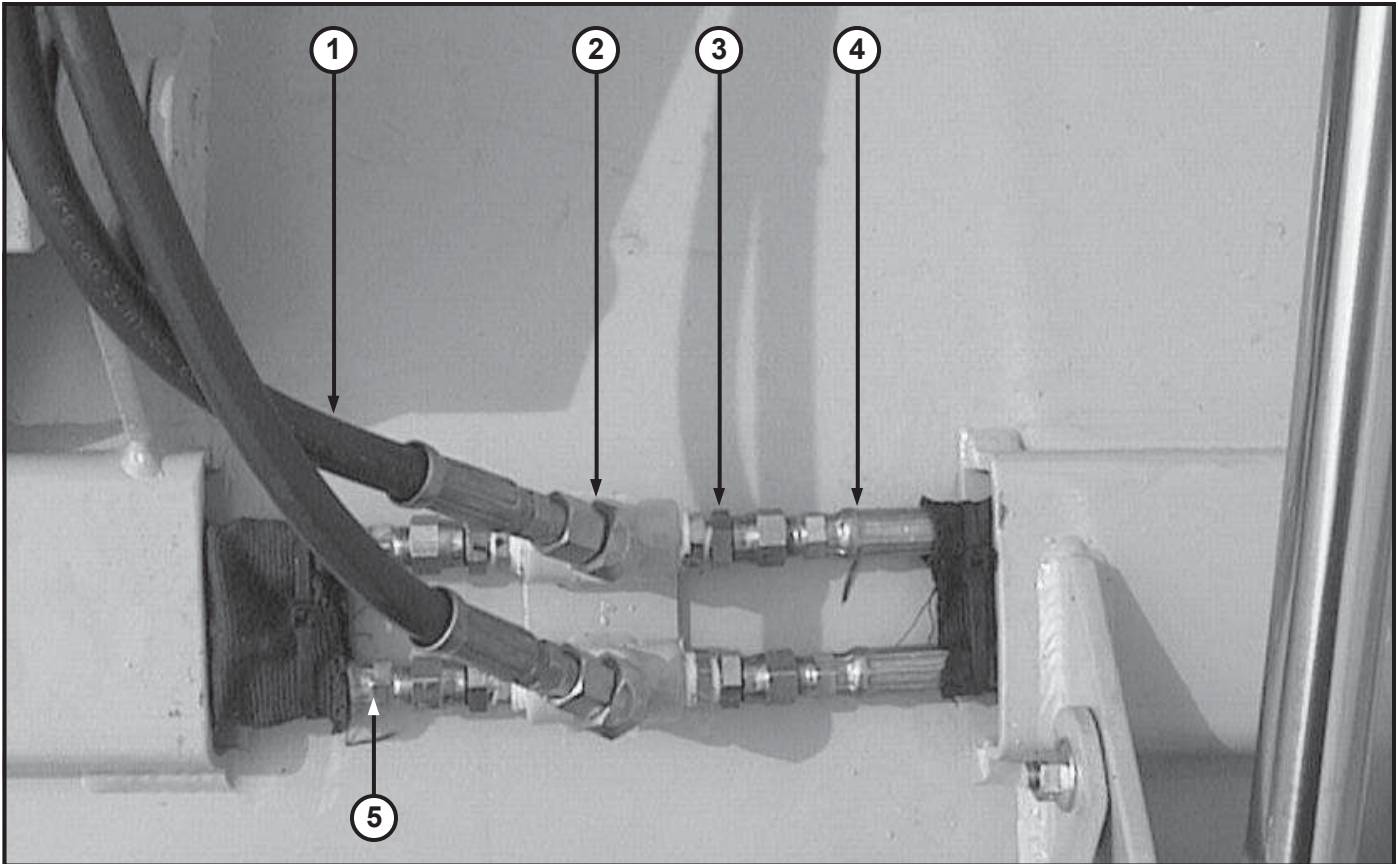
OPTIONS

Clam Shell 4 in 1 Bucket (Factory Installed Option)



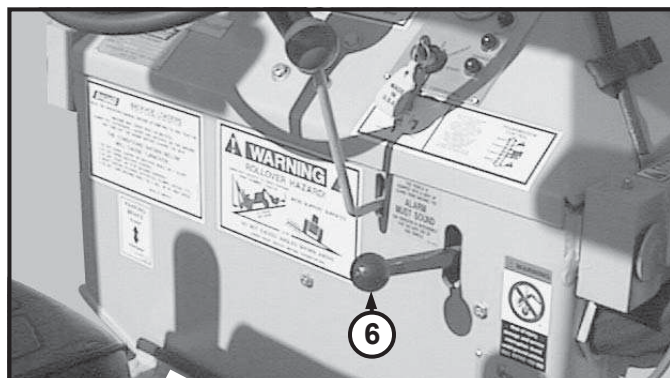
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	85072	85072	Hose Guide	1
2	85010	85010	Strap - Hose Guide	1
3	22025	22025	Bolt, 1/4" x 3/4" LG	2
4	28504	28504	Nut, 1/4" - 28NF Lock, Plated	2
5	13000	13000	Pin, 1" x 5 1/4", Front Curl Cylinder	1
6	20082	20082	Nut, 3/8" - 16NC Flange	9
7	22174	22174	Fitting - 1/4" Straight Male to 1/4" Female Swivel 90°	2
8	81126	81126	Cylinder/A, Clam Bucket	2
9	17136	17136	Pin/w - Clam Cylinder (Rod End)	2
10	17138	17138	Pin/w - Clam Bucket Pivot	2
11	19358	19358	Clam/W - 4 in 1	1
12	19357	19357	Blade/w - 4 in 1 Clam	1
13	17137	17137	Pin/w - Clam Cylinder (Barrel End)	2
14	13200	13200	Pin, 1" x 4 3/4"	2

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



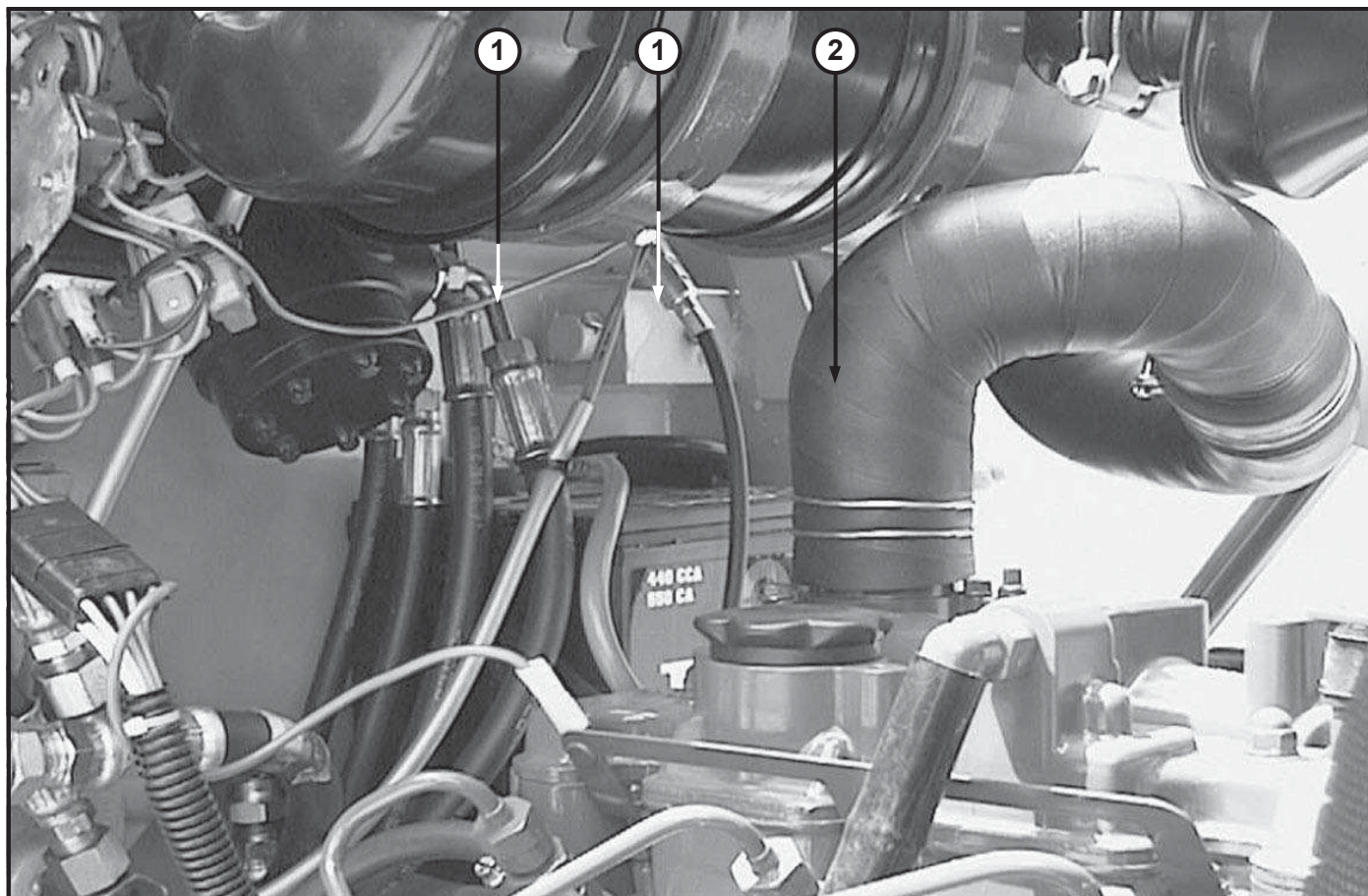
ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	80119	80119	Hose/A - 1/4" Male Pipe Ends 109" Lg.	2
2	23174	23174	Fitting - 1/4" Male to 45°, 1/4" Female Swivel	2
3	20174	20174	Fitting - 1/4" Straight Male to 1/4" Female Swivel	4
4	88425	88425	Hose/A - 1/4" Male Pipe Ends 42" Lg.	2
5	80029	80029	Hose/A - 1/4" Male Pipe Ends 25" Lg.	2
6	21403	1-40.3	Handle, Loader, Black (Used with Clam Shell Bucket Only)	1

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



View Under the Dash for Clam Shell 4 in 1 Bucket

(Only as Factory Installed Option)



ITEM	PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION	QTY.
1	80119	80119	Hose, 1/4" Male Pipe Ends 109" Lg.	2
2	20146	1-46	Valve, Loader, 3 Spool (Used with Clam Shell Bucket Only)	1
NOT SHOWN	22784	8MA-4UFS	Fitting, 1/2 "M 90° x 1/4 "M Swivel	2



SECTION SIX

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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	Anschlusstück, Schnellwechsler	conector, enganche
coupling	accouplement	Verbindungsstück	acoplamiento
cover	couvercle	Deckel	cubierta, tapa
crankcase	carter moteur	Kurbelgehäuse	cárter
crankshaft	vilebrequin	Kurbelwelle	cigüeñal
crosshead	traverse	Kreuzkoph	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
decals	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	Felgenreand, 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)	Schwungrad	volante
flow protector	protecteur de débit	Durchfluss-Schutzvorrichtung	protector de flujo
foot	pie	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
gauge	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 aspiración
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, Aufhängung	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	croisillon	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	vóstagó
strainer	filtre, crépine	Sieb	filtro
strap	sangle	Riemen, Gurt	banda, correa
strut	étai, 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, Temperaturfühler	termistor
thermostat	thermostat	Thermostat	termostato
tightner	tendeur	Spanner	tensor, ajustador
tilt cylinder	vérin d'inclinaison	Neigezylinder	cilindro de inclinación
tire	pneumatique	Reifen	neumático
transfer	déclacomanie, autocollant	Abziehbild	transferencia
transmission	transmission, boîte de vitesses	Getriebe	transmisión
tread-step	marchepied	Triffstufe	estribo antirresbalante
tube	tuyau, tube, gicleur	Rohr, Schlauch	tubo
tubing	canalisations	Rohr, Schlauchleitung	tuberías, 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



SECTION SEVEN

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