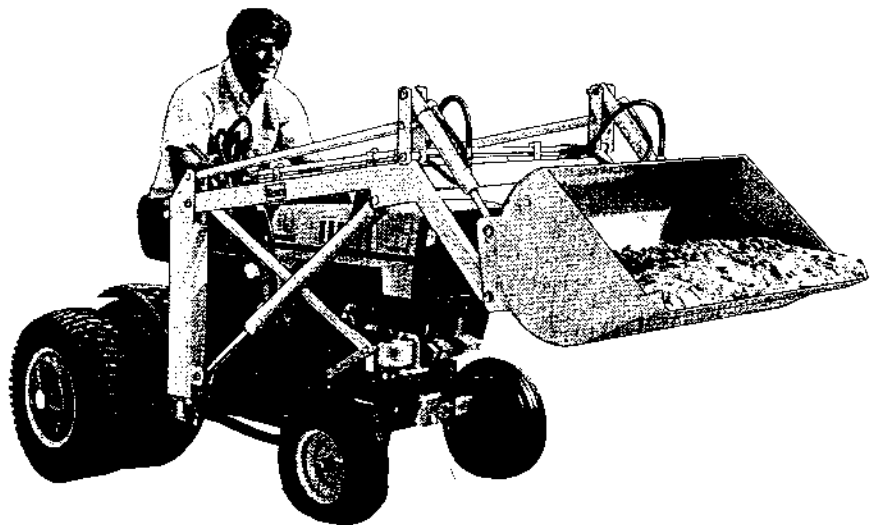


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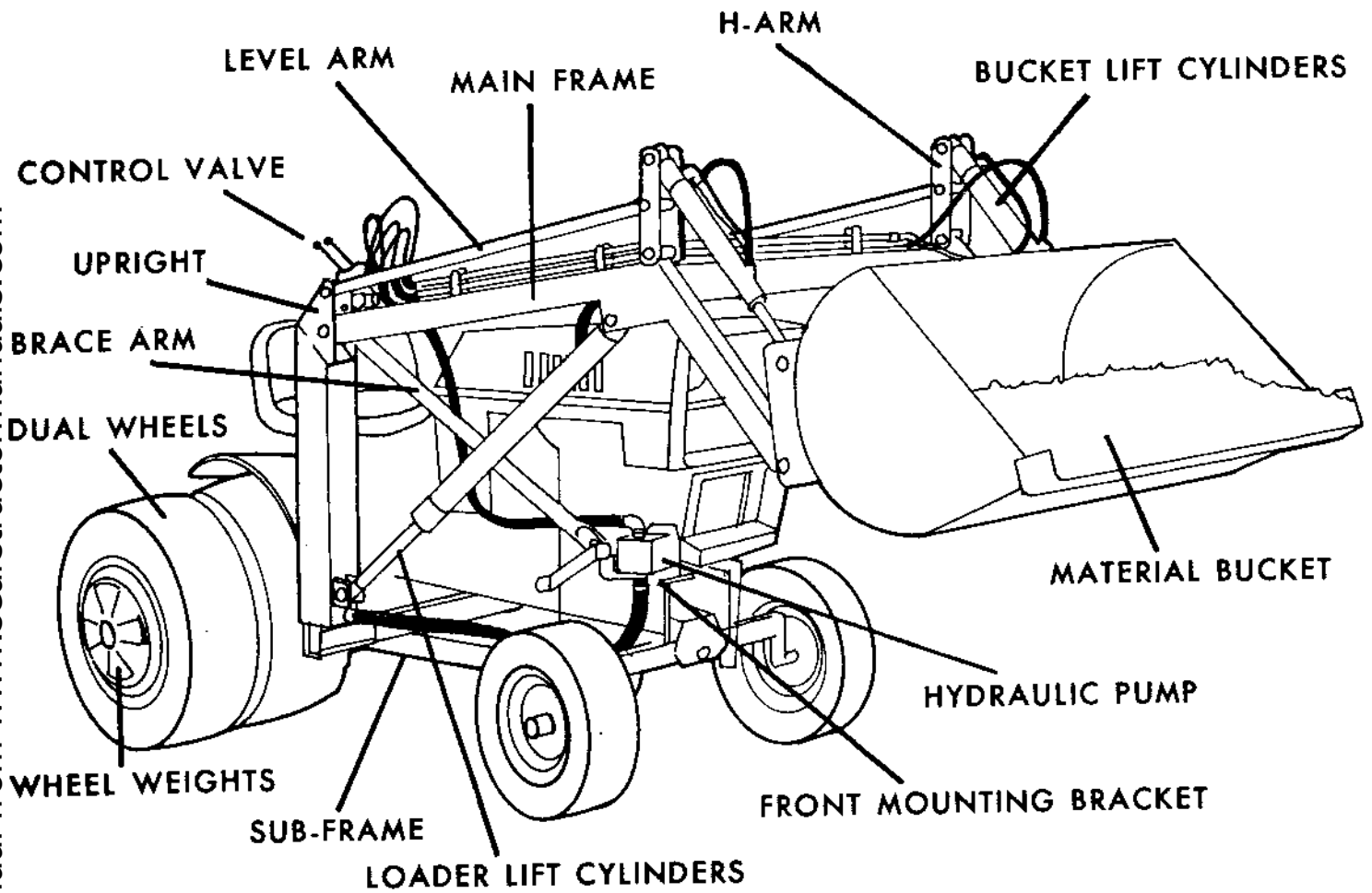
MODEL NO.
100.26230

SEARS HYDRAULIC LOADER

- Assembly
- Operating
- Maintenance
- Repair Parts

Sears, Roebuck and Co., Chicago, Ill. 60684 U.S.A.
and Simpsons Sears Limited, Toronto

REFERENCE PARTS FOR ASSEMBLY AND INSTRUCTIONS



YOUR SEARS FRONT END LOADER FEATURES:

- INDEPENDENT HYDRAULIC SYSTEM
- SELF-LEVELING
- DUAL, DOUBLE ACTING LIFT AND BUCKET CYLINDERS
- FINGER TIP CONTROL VALVE WITH FLOAT POSITION

Your Sears Loader Attachment has been shipped from the factory partially assembled, for shipping purposes. All parts necessary to complete assembly are included in a plastic bag within the carton. The bag of parts include the following items:

QUNT.	DESCRIPTION	QUNT.	DESCRIPTION
2	Adaptor Bracket Spacers	2	3/8 x 1 1/2" Bolt
2	Front Mount Spacers	2	3/8 x 2" Bolt
2	Hose Clamps	2	1/2 x 1 1/2" Bolt
2	5/16 x 1 1/2" Bolt	4	5/16" Hex Nut
2	3/8 x 1 1/4" Bolt	6	3/8" Hex Nut
2	5/16 x 2" Bolt	4	1/2" Hex Nut
4	3/4 x 2 1/2" Hitch Pin	4	5/16" Lockwasher
4	3/4 x 2 3/4" Hitch Pin	6	3/8" Lockwasher
6	#3 Clip Pins	4	1/2" Lockwasher
8	#11 Clip Pins	4	1/2 x 2" Hitch Pin
2	5/8 x 2 1/2" Hitch Pin		

ASSEMBLY

IMPORTANT: READ THESE INSTRUCTIONS COMPLETELY BEFORE DOING ANYTHING, THEN GO BACK AND BEGIN STEP BY STEP.

When R. H. (right hand) and L. H. (left hand) are used, it should be understood to mean from a position behind and facing the Loader (or direction of travel).

NOTE: Leave all nuts and bolts finger tight until tightening is specified.

Pre-Mounting Preparation

1. Refer to Fig. 1.
Before the front mounting bracket can be attached, remove the tractor channel cover (A) and four bolts (B) located under front grill. This part will not be re-used while loader is attached to tractor.

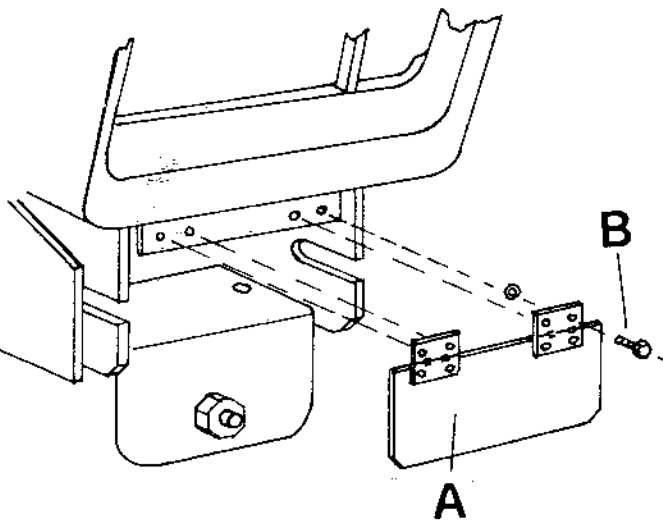


FIG. 1

2. Refer to Fig. 2.
Remove the R.H. side section (A) from the grill. It must be removed to make way for the pump drive belt. This part will not be re-used while loader is attached to the tractor.

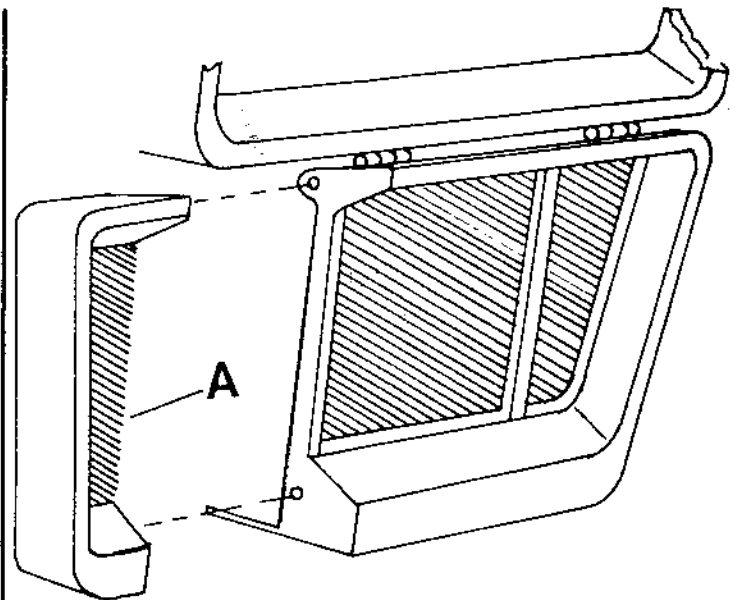


FIG. 2

Assembly of Pump Mounting Bracket with Pump and Drive Pulley Attached

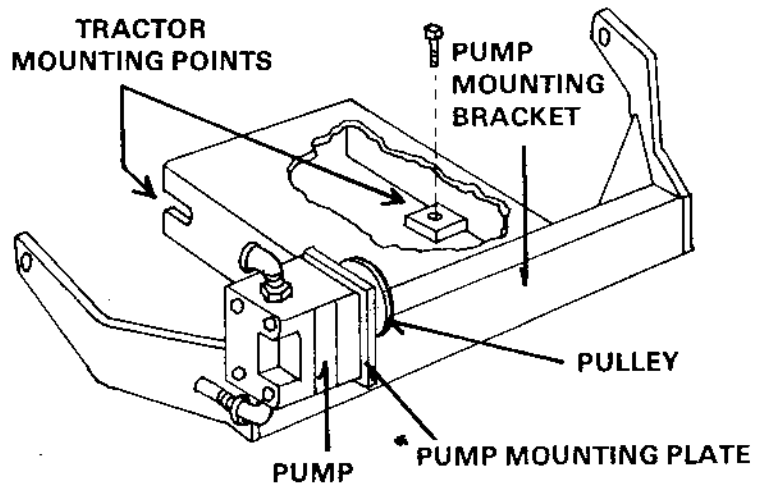


FIG. 3

TRACTOR MOUNTING POINTS:

3. Refer to Fig. 3.
For clarity, the pump mounting bracket has been drawn "opened-up" to show the mounting ears on the underside of the bracket. The bracket bolts into position on the tractor at the "ears" with two 7/16 x 1" bolts, lockwashers, and nuts. (see Fig. 4)

The slots on the leading edge of the mounting bracket slide into pins inside tractor main frame. (also see Fig. 4)

ASSEMBLY (continued)

4. Refer to Fig. 4.
Slide the front mounting bracket (A) into position as indicated.
(where channel cover was removed from tractor)

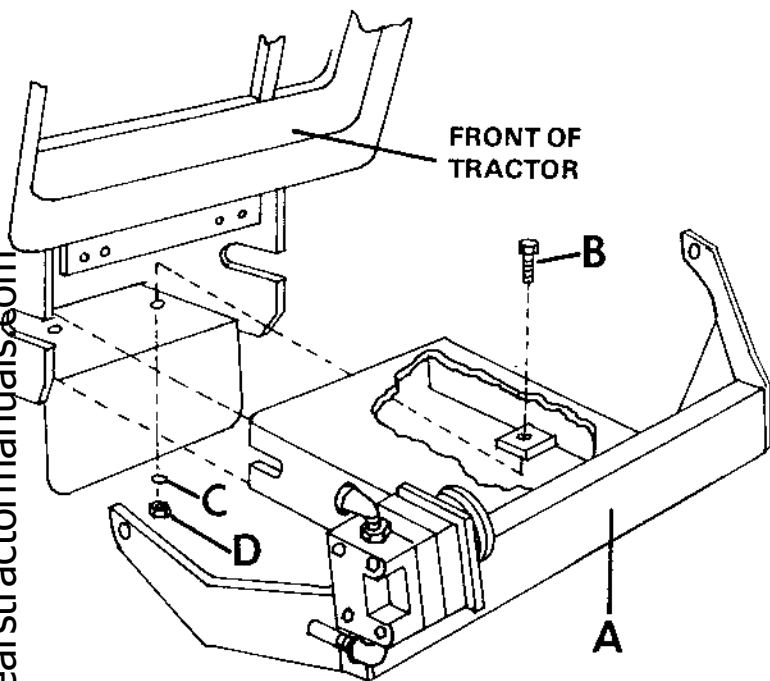


FIG. 4

Bolt into position by two 7/16 x 1" bolts (B), lockwashers (C) and nuts (D).

The two bolts pass through two holes on tractor frame as shown. Tighten these bolts.

Mounting the Sub-Frame Crossmember

5. Refer to Figs. 5 and 6.
Locate the attachment Hanger Brackets on side of tractor frame. (see Figs. 5 and 6)

The Hanger Bracket is now bolted to tractor frame by three bolts. REMOVE THE TWO BOLTS ONLY AS INDICATED IN FIG. 5. (same on other side of tractor)

CAUTION: DO NOT REMOVE THE THIRD BOLT OR HANGER BRACKET.

Using holes as shown in Fig. 6. Fasten one adaptor bracket (B) to inside of tractor frame using hole as shown, with two 3/8 x 1 1/2" bolts (A), one adaptor bracket spacer (C) (used on top bolt only as shown) and lockwashers and nuts. Repeat this operation on other side of tractor.

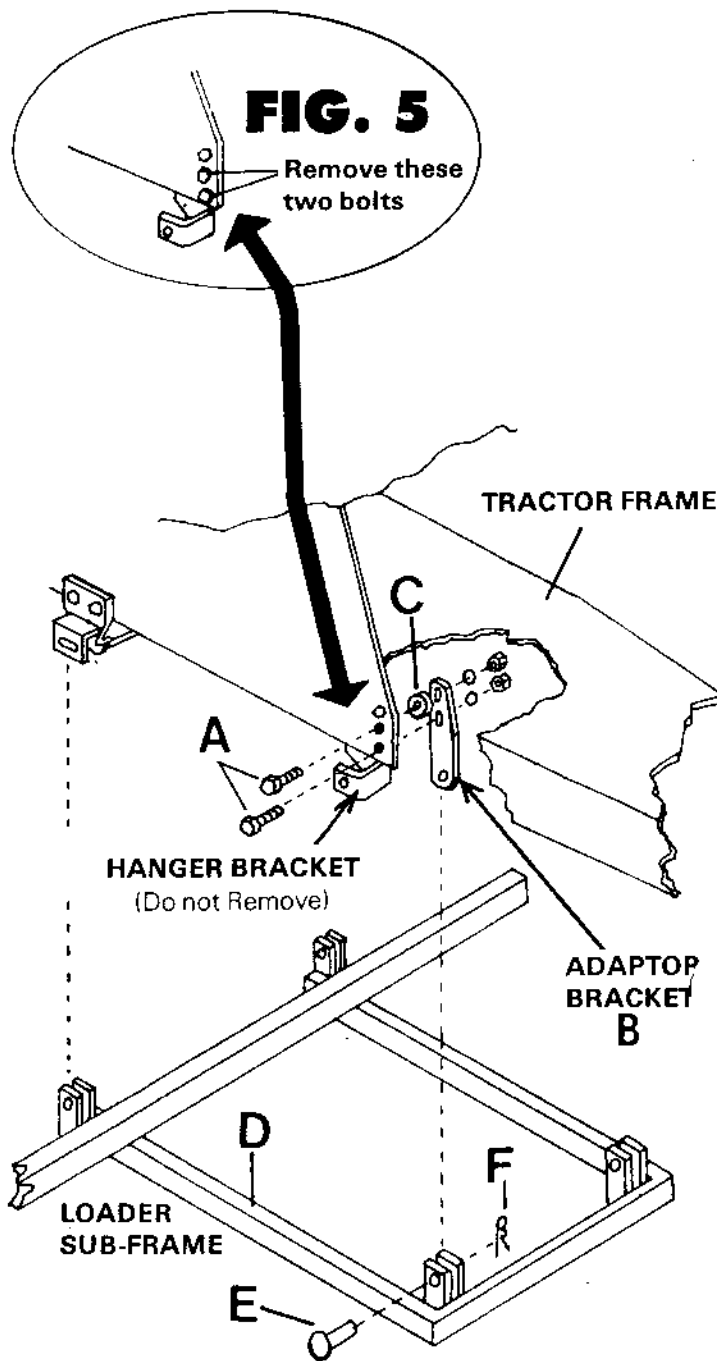


FIG. 6

6. Now lift Loader SUB-FRAME (D) up into position as shown, front and rear, and attach to brackets with four 1/2 x 2" Hitch Pins (E) and #3 Clip Pins (F). Tighten bolts as used in Fig. 5.

Proceed to Assembly of Uprights, Fig. 7 next page.

ASSEMBLY (continued)

Mounting the Uprights

7. Refer to Fig. 7.

Place Upright (A) flush with outer end of crossmember part of Sub-Frame (C). Place Upright Retainer Bracket (D) up tight around crossmember, connecting with feet of Upright. (the two pegs on front do not use nuts) Connect all with one 1/2" Hex Nut and Lockwasher (E) onto welded bolt on back side of Retainer Bracket as shown. Place Reservoir Upright (B) onto Sub-Frame crossmember as shown repeating Upright Retainer Bracket attachment. Using Upright (A) as a reference point, the inside to inside measurement between the two uprights should be 30 1/2".

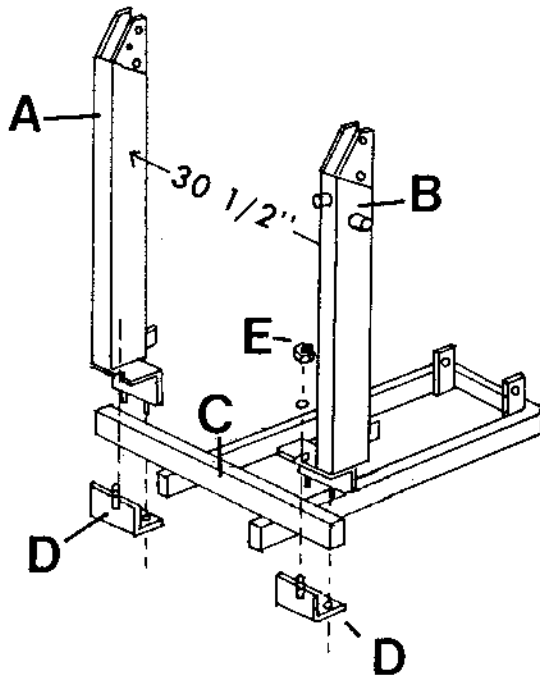


FIG. 7

Mounting the Brace Arms

8. Refer to Fig. 8.

Attach loader Brace Arms (F) to Upright (D) using 1/2 x 1 1/2" Bolt (A), Spacer (B) Lockwasher and Nut (C), as shown. Attach front end of Brace Arms (F) to Front Mounting Bracket (G) with one 1/2 x 1 1/2" Bolt (H) using hole as shown. NOTE:

The Valve Mounting Plate with Valve attached (K) is pre-assembled and connected to the Main Frame by four hydraulic hoses. Figure 8 shows how it is attached to upright (D), brace arm (F) and bolt (A), but this cannot be done until the Main Frame is in position. Repeat operation on other side.

NOW, at this point, go back and tighten all bolts wrench tight, after any necessary adjustments have been made. (you should leave the one bolt loose where the valve mounting plate connects to upright (D) Fig. 8. Replace tractor Cowling Top Assembly (Hood) at this point, if not already done.

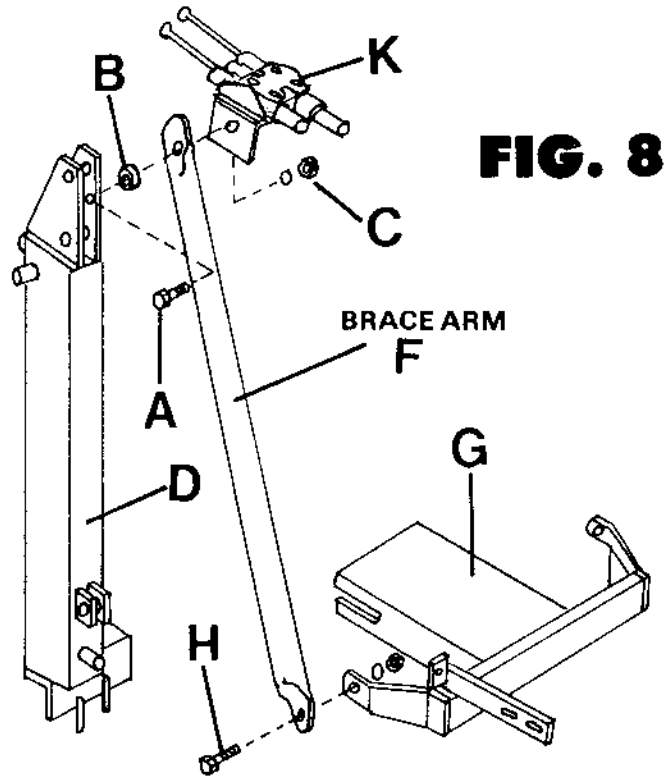


FIG. 8

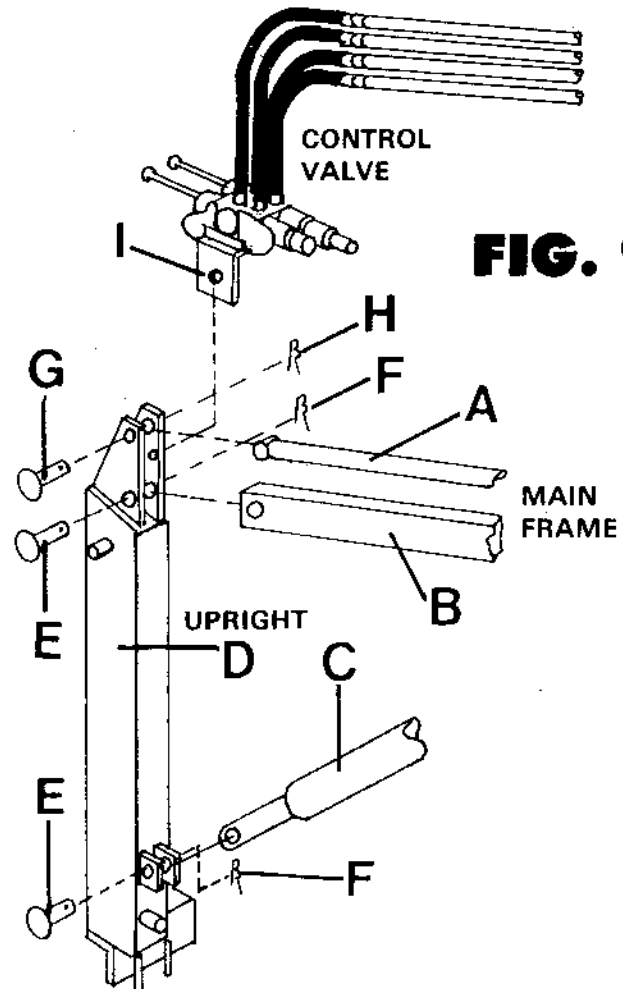


FIG. 9

continued next page

ASSEMBLY (continued)

Mounting the Main Frame

9. Refer to Fig. 9.
Hoist pre-assembled Main Frame into position and connect points (A), (B) and (C) to Upright (D). Points (B) and (C) both use one $\frac{3}{4}$ x $2\frac{1}{2}$ " Hitch Pin (E) and #11 Clip Pin (F). Point (A) is connected with one $\frac{5}{8}$ x $2\frac{1}{2}$ " Hitch Pin (G) and #3 Clip Pin (H). Now, connect the Valve Mounting Plate, with valve attached, to the Upright Reservoir. Refer back to Figure 8.

Pump Belt

10. Refer to Fig. 10.
First remove the two hair pins that hold the tractor Belt Guard Cover (A) in place. Place Pump Drive Belt (B) around Pump Pulley (C) and then around largest pulley on tractor drive (D).

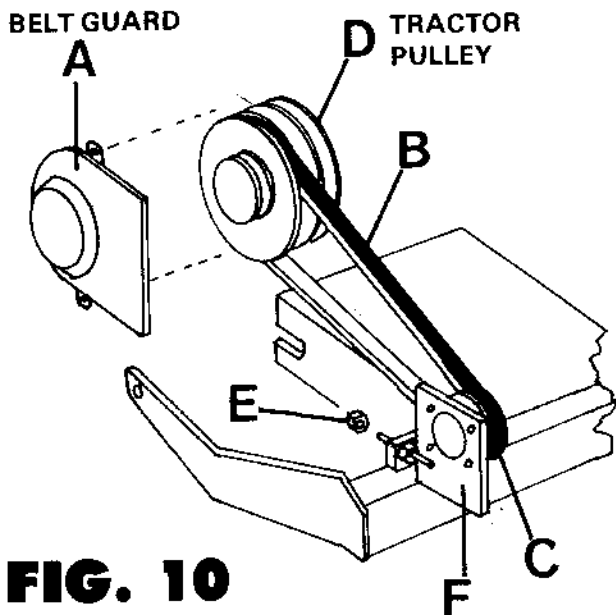


FIG. 10

Tighten belt (B) by turning Hex Nut (E) on Pump Mounting Plate (F) clockwise to sufficiently drive pump with no slippage. The Belt is properly tightened when the Belt "gives" about $\frac{1}{2}$ " to $\frac{3}{4}$ ". (See Fig. 11) Replace Belt Guard (A).

CAUTION: Do not overtighten Belt, or severe damage to Pump and Bearings may be the result.

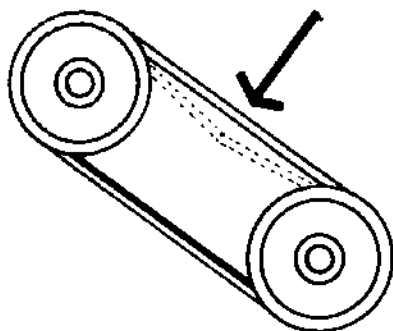


FIG. 11

Connecting Suction, Pressure and Return Hydraulic Hoses

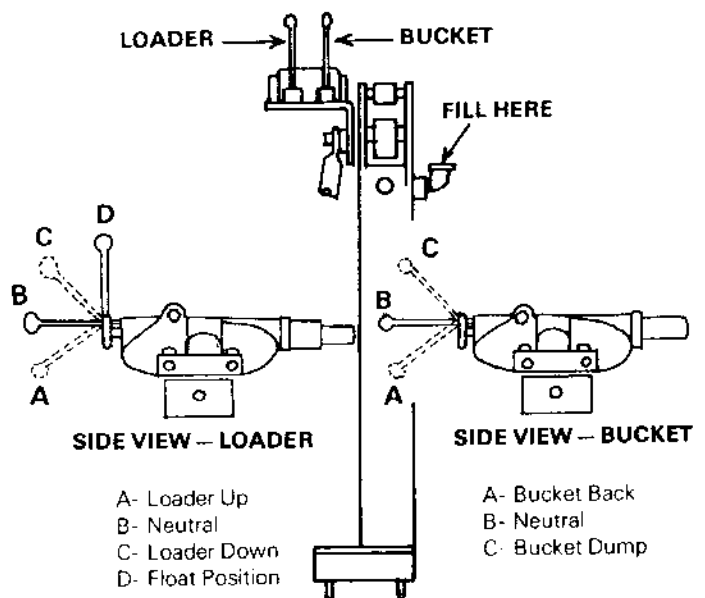
11. Refer to Fig. 15.
Hook up Pressure, Return and Suction hoses as illustrated in Fig. 15. Repair Parts diagram found toward the back of this manual. Use pipe thread compound on all threads.

INSTRUCTIONS BEFORE USING LOADER

DOUBLE CHECK:

1. Owner's Manual for recommended tire pressure (25 to 30 lbs. in front tires).
2. Check that all bolts have been tightened and that all wrenches, etc., have been removed from tractor.

12. Refer to Fig. 12.
Fill Upright Reservoir (filler plug on outside as shown) with 5 quarts of good grade hydraulic oil. (Type "A" automatic transmission fluid is a good hydraulic oil). Start tractor engine (set speed at $\frac{1}{2}$ throttle) and operate loader and bucket Cylinders at least five or six times to remove entrapped air. Lower loader (NOTE, when lowering loader, DO NOT push L.H. handle all the way forward into FLOAT POSITION) and retract bucket Cylinders (pull back on R.H. handle) and ADD three more quarts of oil. Replace Filler Plug and attach Bucket or other accessory to front of loader frame with pins and clips furnished.



SIDE VIEW - LOADER

SIDE VIEW - BUCKET

- A- Loader Up
- B- Neutral
- C- Loader Down
- D- Float Position

- A- Bucket Back
- B- Neutral
- C- Bucket Dump

FIG. 12

OPERATING INSTRUCTIONS

SEARS LOADER MODEL NUMBER 100.26230

Main lift cylinders and bucket cylinders are double acting type (both push and pull under hydraulic power). This means that the loader can be forced down as well as up. It means that the bucket can be tilted down or up with hydraulic pressure. Some other loaders have single acting systems where only the lifting operation is under power and downward movement is by gravity.

Your loader has what is termed a "self-leveling" feature on the bucket linkages. This means the bucket stays in the same attitude during the lifting cycle as it is at the start. Without this feature, it is necessary to tilt the bucket backward as it is raised to prevent material from spilling out during the lift cycle.

HYDRAULIC CONTROL VALVE

Your loader control valve is technically called a two spool, four way, two position stack valve with an added detent float position. Each spool has a handle. The left hand handle operates the lift cylinders and contains the detented float position. The right hand handle operates the bucket cylinders. Both handles will return to neutral except from float position when released.

VALVE OPERATION

(also refer back to Fig. 12)

Position A Right handle pulled back, bucket will roll back.

Position C Right handle pushed forward, bucket will dump.

Position A Left handle pulled back, loader frame will raise.

Position C Left handle push half way forward, loader frame will lower.

Position D Left handle pushed all the way forward (this is float position). Handle will stay until manually released.

In this position no hydraulic fluid is directed to the lift cylinders. If the loader frame is up off the ground, it will lower to the ground by gravity attraction. When the bucket is on the ground (and the valve is still in float position) the bucket will follow the contour of the ground when the tractor is moving forward or in reverse gear. This position allows hydraulic oil to flow back and forth in hydraulic system at will as loader is raised and lowered by ground contour.

CAUTION--Do not allow bucket lip to dig when tractor is moving forward with valve in the float position. Bucket bottom should be level with the ground or slightly rolled back.

The float position is most commonly used in conjunction with attachments in snow removal operations. It is a common practice with farm tractor loaders and commercial handling units to ram the bucket into the material to be moved in order to fill it. In operating small riding garden tractor loaders, tractor should be run in low gear high range and the hydraulic capabilities of the main and bucket cylinders used to work material loose and fill the bucket.

RULES FOR SAFE OPERATION

1. Set engine throttle at about half speed (1800RPM). This will give adequate hydraulic power.
2. Keep tractor speed slow. First gear (high-range)
3. Keep bucket as low as possible during transport of load to place where bucket is dumped. This keeps center of gravity low and increases complete unit stability.
4. If material is being loaded into a truck, keep bucket low while traveling from pile to truck. When next to the truck, raise bucket and move unit forward as necessary before dumping. After dumping, back away from the truck and lower bucket before running tractor for another load.
5. Avoid quick fast turns. If it is necessary to turn unit with unit raised, use extreme care.
6. It is always important to slow tractor down while traveling over rough ground.

NOTE: For best tractor stability and performance, we strongly recommend dual wheels and wheel weights be added. In addition drawbar weights can be added depending upon work load. These items can be purchased separately at any Sears store. **CAUTION,** damage may occur when operator attempts to handle loads in excess of 500 lbs.

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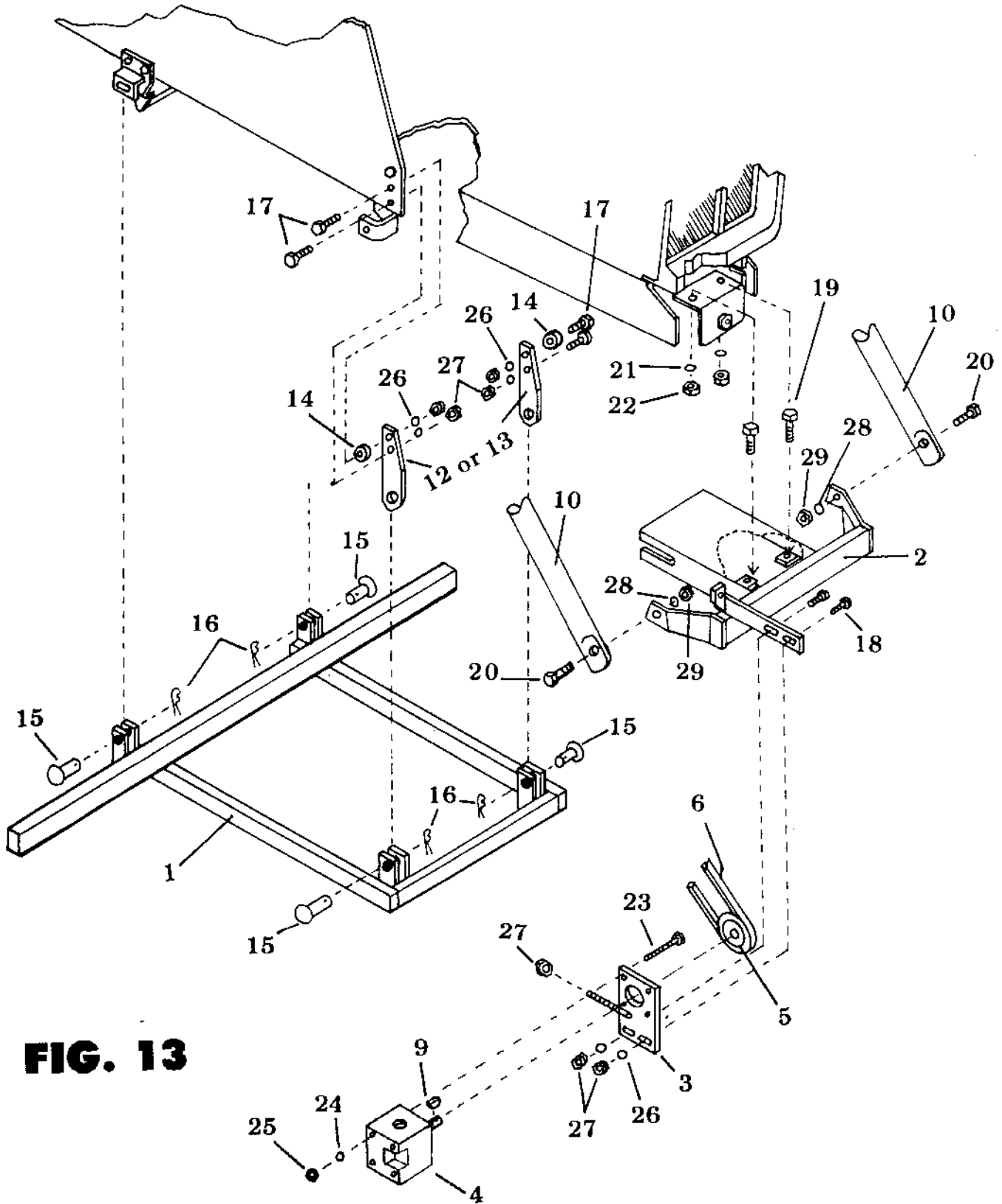


FIG. 13

Refer to FIG. 13

KEY NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	10131	Sub-Frame	1
2	10531	Front Mounting Bracket	1
3	10541	Pump Mounting Plate	1
4	100098	C-210 Hydraulic Pump	1
5	100203	Pump Pulley (7-56-B)	1
6	100207	Pump Belt (5L370)	1
9	100223	Woodruff Key	1
10	10165	Brace Arm	2
12	10123	Sub-Frame Adaptor Bracket (SS-15 SS-16)	2
13	10196	Sub-Frame Adaptor Bracket (ST-16 only)	2
14	10197	Adaptor Bracket Spacer (all models)	2
15	10018	1/2 x 2" Hitch Pin	4
16	100171	#3 Clip Pin	4
17	100047	3/8 x 1 1/2" Bolt	4
18	100045	3/8 x 1" Bolt	2
19	100183	7/16 x 1" Bolt	2
20	100056	1/2 x 1 1/4" Bolt	2
21	100075	7/16" Lockwasher	2
22	100086	7/16" Hex Nut	2
23	100044	5/16 x 4" Bolt	4
24	100073	5/16" Lockwasher	4
25	100084	5/16" Hex Nut	4
26	100074	3/8" Lockwasher	6
27	100085	3/8" Hex Nut	7
28	100076	1/2" lockwasher	2
29	100087	1/2" Hex Nut	2
	100265	Owners Manual and Parts List	1
	100266	Sears Decal	2

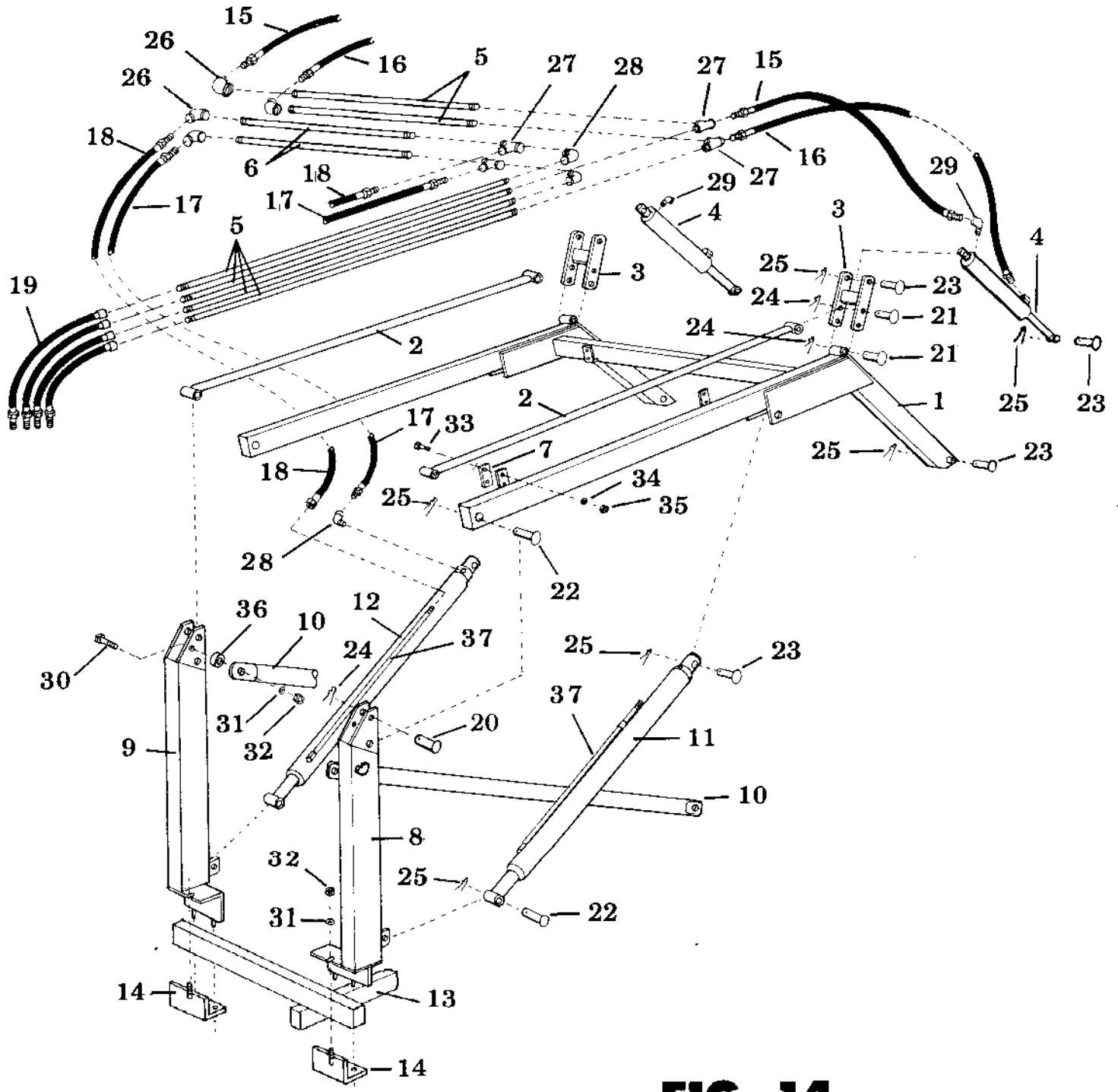


FIG. 14

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Refer to FIG. 14

KEY No.	PART NO.	DESCRIPTION	NO. REQ'D
1	10166	Main Frame	1
2	10167	Level Arm	2
3	10147	H-Arm	2
4	100032	Bucket Cylinders	2
5	10180	Feedline (long)	6
6	10179	Feedline (short)	2
7	10014	Feedline Retainer Bracket	3
8	10164-4	Reservoir Upright, R.R.	1
9	10164-3	Upright, L.H.	1
10	10165	Brace Arm	2
11	100033-R	Loader Lift Cylinder, R.H.	1
12	100033-L	Loader Lift Cylinder, L.H.	1
13	10131	Sub-Frame	1
14	10095	Upright Retainer Bracket	2
15	100149	24" Hydraulic Hose	2
16	100146	21" Hydraulic Hose	2
17	100141	16" Hydraulic Hose, male to male ends	2
18	100140	16" Hydraulic Hose, male to female ends	2
19	100148	22" Hydraulic Hose	4
20	10019	5/8 x 2 1/2" Hitch Pin	2
21	10020	5/8 x 2 3/4" Hitch Pin	4
22	10021	3/4 x 2 1/2" Hitch Pin	4
23	10022	3/4 x 2 3/4" Hitch Pin	8
24	100171	# 3 Clip Pin	6
25	100172	# 11 Clip Pin	12
26	100107	3/8" x 90 Pipe Elbow	4
27	100110	3/8" Pipe T	4
28	100108	3/8" x 90 Street Elbow	4
29	100103	1/4" x 90 Street Elbow	2
30	100057	1/2 x 1 1/2" Bolt	2
31	100076	1/2" Lockwasher	4
32	100087	1/2" Hex Nut	4
33	100038	1/4 x 1 1/2" Bolt	3
34	100072	1/4" Lockwasher	3
35	100083	1/4" Hex Nut	3
-	100230	Lift Cylinder Seal Repair Kit	-
-	100229	Bucket Cylinder Seal Repair Kit	-
36	100001	Spacer- Brace Arm	2
37	10174	Lift Cylinder Feed Line	2

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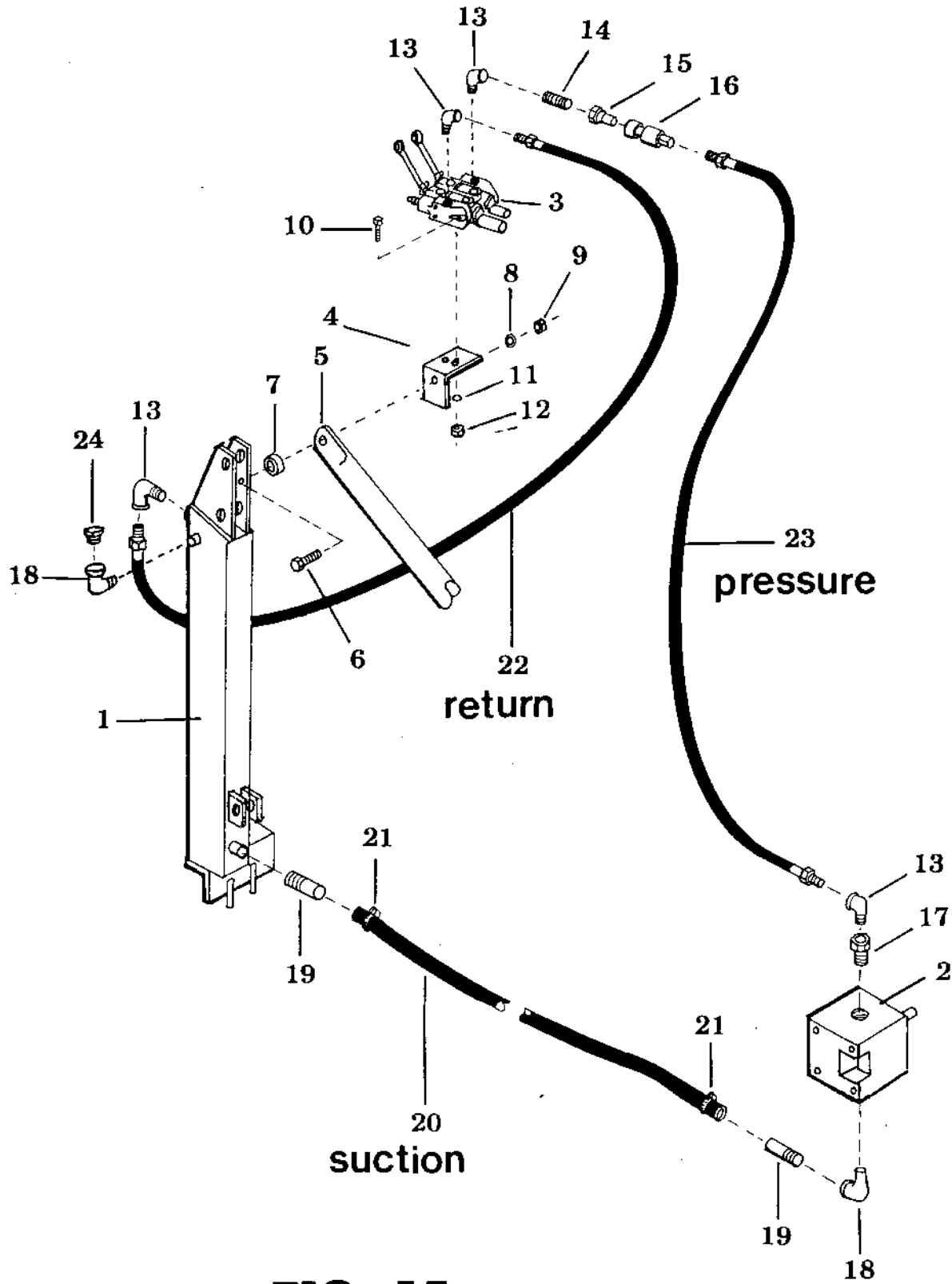


FIG. 15

REPAIR PARTS

SEARS LOADER—MODEL NUMBER 100.26230

Refer to FIG. 15

KEY NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	10164-4	Reservoir Upright, R.H.	1
2	100098	C-210 Hydraulic Pump	1
3	100095	Control Valve	1
4	10162	Valve Mounting Plate	1
5	10165	Brace Arm	1
6	100057	1/2 x 1 1/2" Bolt	1
7	100001	Brace Arm Spacer	1
8	100076	1/2" Lockwasher	1
9	100087	1/2" Hex Nut	1
10	100038	1/4 x 1 1/2" Bolt	2
11	100072	1/4" Lockwasher	2
12	100083	1/4" Hex Nut	2
13	100108	3/8" x 90 Street Elbow	4
14	100111	3/8" Close Pipe Nipple	1
15	100096-M	Male Quick Coupler	1
16	100096-F	Female Quick Coupler	1
17	100114	1/2" to 3/8" Hex Head Bushing	1
18	100115	1/2" x 90 Street Elbow	2
19	100120	1/2" Pipe End	2
20	100166	Hydraulic Hose, Suction	1
21	100138	Hose Clamp	2
22	100151	25" Hydraulic Hose, Return	1
23	100168	36" Hydraulic Hose, Pressure	1
24	100124	Filler Plug	1

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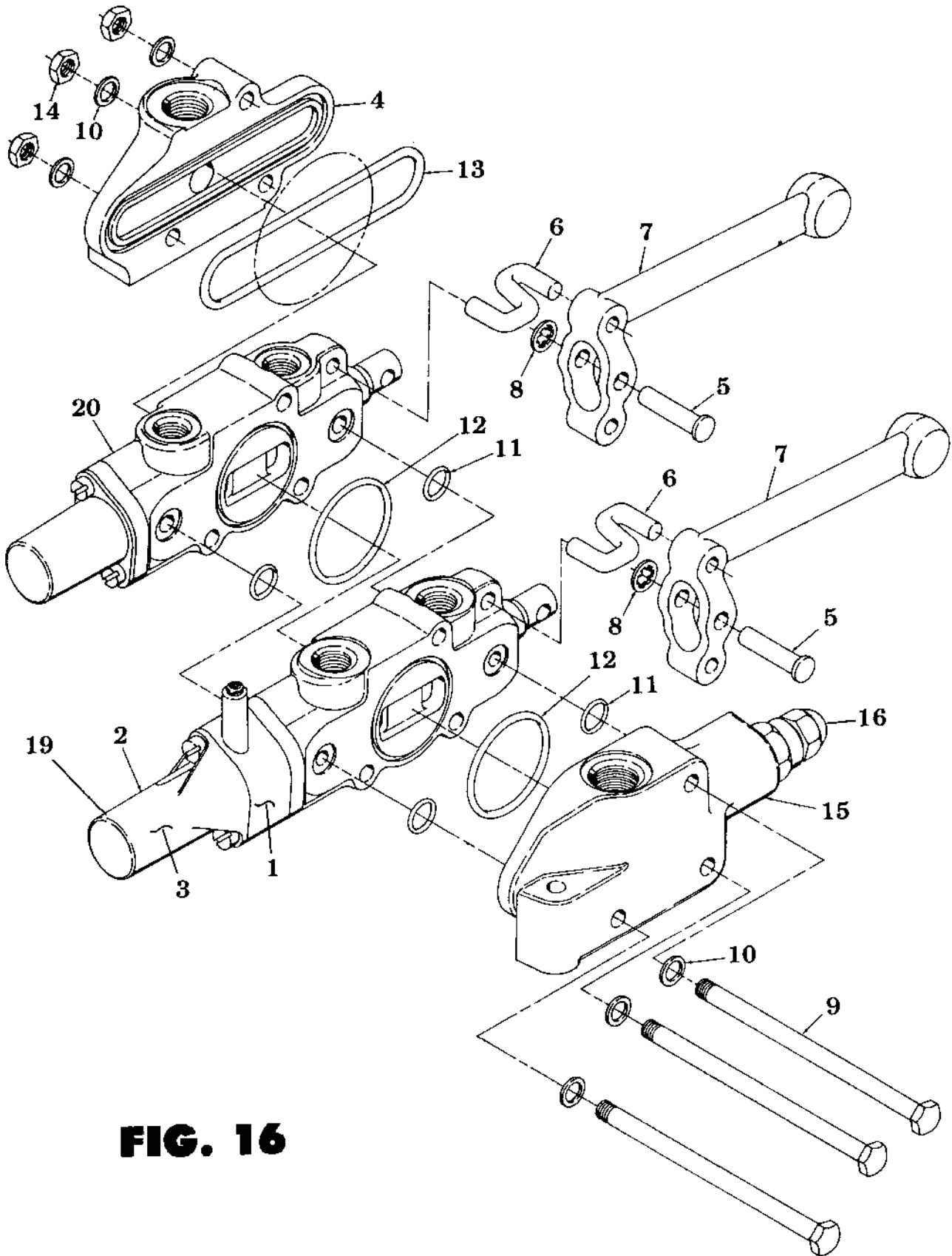


FIG. 16

Refer to FIG. 16

KEY NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	100268	Detent Spacer Kit	1
2	100269	4 DF Sub Assembly (spool fitted to body)	1
3	100270	Spool Cap Assembly	1
4	100271	Outlet Cover	1
	100272	Handle Assembly (includes Key No's 5,6,7,8)	2
5	100273	Pin	2
6	100274	S-Link	2
7	100275	Handle only	2
8	100276	Push-on Ring	2

Key No. Items 9,10,11,12,13, and 14 cannot be purchased as separate items. See Kits 17 and 18.

15	100283	Inlet Cover with Relief	1
16	100284	Relief Cartridge	1
17	100285	O-Ring Kit (includes key no. items 11,12,13 and spool "O" rings.)	1
18	100286	Bolt, Nut, Washer and Seal Assembly Kit (this kit includes all seals except spool "O" rings, see kit No. 17.) Including Key No. items 9,10,11,12,13, and 14.	1
19	100287	Spring Centering Kit (not shown)	1
20	100293	Sub Assembly (without detent and float)	1

IMPORTANT, NOTES FOR ADJUSTMENT.

1. When tightening the 3 body bolts, (see above Key No. 9) they do require between 90 to 100 inch pounds of pressure (no more) to keep seals from blowing out because of pressure in valve.
2. To re-set the Detent Adjusting Screw, (see above Key No, 1). Tighten until handle will remain forward in float position- yet, at the same time, can be released easily manually.

Sears

owners manual

The Model Number will be found on a plate attached to the right side of the main frame. Always mention the Model Number in all correspondence regarding the SEARS LOADER or when ordering repair parts.

All parts listed herein may be ordered from any SEARS, ROEBUCK AND CO. or SIMPSON-SEARS LIMITED retail or catalog store. When ordering parts by mail selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST:

- | | |
|---------------------------|----------------------------|
| 1. PART NUMBER | 3. PART DESCRIPTION |
| 2. MODEL NUMBER 100.26230 | 4. NAME OF ITEM — — LOADER |



When you buy merchandise from Sears you get an extra something that nobody else can offer . . . Sears Service.

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for "expedited handling."

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and Simpsons Sears Limited, Toronto