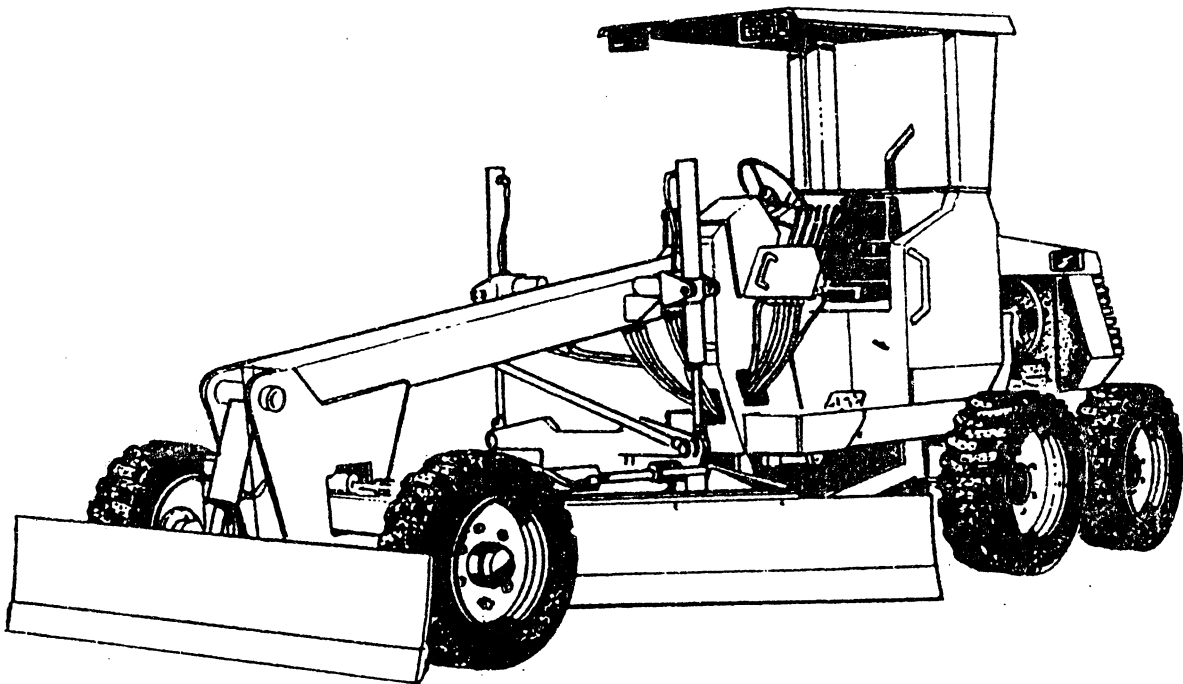


LeeBoy

OPERATORS, SERVICE AND PARTS MANUAL



MOTOR GRADER

**MODEL NO. 635B
MANUAL NO. 6350495**

LEEBOY

688 Highway 16 North • Denver, North Carolina 28037
PHONE: A.C. 704-483-9721 • FAX # 1-704-483-5802

USER'S REFERENCE INFORMATION

DELIVER DATE _____

EQUIPMENT SERIAL NO. _____

TYPE ENGINE _____

ENGINE NO. _____

DEALER'S NAME & ADDRESS

EQUIPMENT HOURS _____

**— CALIFORNIA —
Proposition 65 Warning**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

SAFETY NOTICE

All danger points about the 635B MOTOR GRADER are explained and labeled by decals to the best of our knowledge. If anyone in the field discovers anything omitted, please notify your closest dealer or factory.

LIMITED WARRANTY

B.R. LEE & SONS, INC. warrants to the original customer that the equipment manufactured by B.R. Lee, & Sons, Inc. to whom said equipment is sold as new shall be free from defects in material and workmanship for 90 days after the date of first use or delivery whichever comes first.

This warranty is limited to the following: If any part of the equipment becomes defective during the period described and is brought to an authorized B.R. Lee & Sons, Inc. dealer, the dealer will, without charge, repair the part which has become defective or replace it without charge. B.R. Lee & Sons, Inc. is not responsible for damaged or malfunction resulting from misuse, failure to follow recommended maintenance requirements, alteration, accident or fire.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE. ACCORDINGLY, ALL IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. B.R. LEE & SONS, INC. SHALL NOT BE RESPONSIBLE FOR LOSS OF TIME, LOST PROFITS, LOST USE, OR ANY OTHER CONSEQUENTIAL DAMAGES OR ANY INCIDENTAL DAMAGE.

B.R. Lee & Sons, Inc. does not authorize any person to amend or extend this limited warranty on its behalf.

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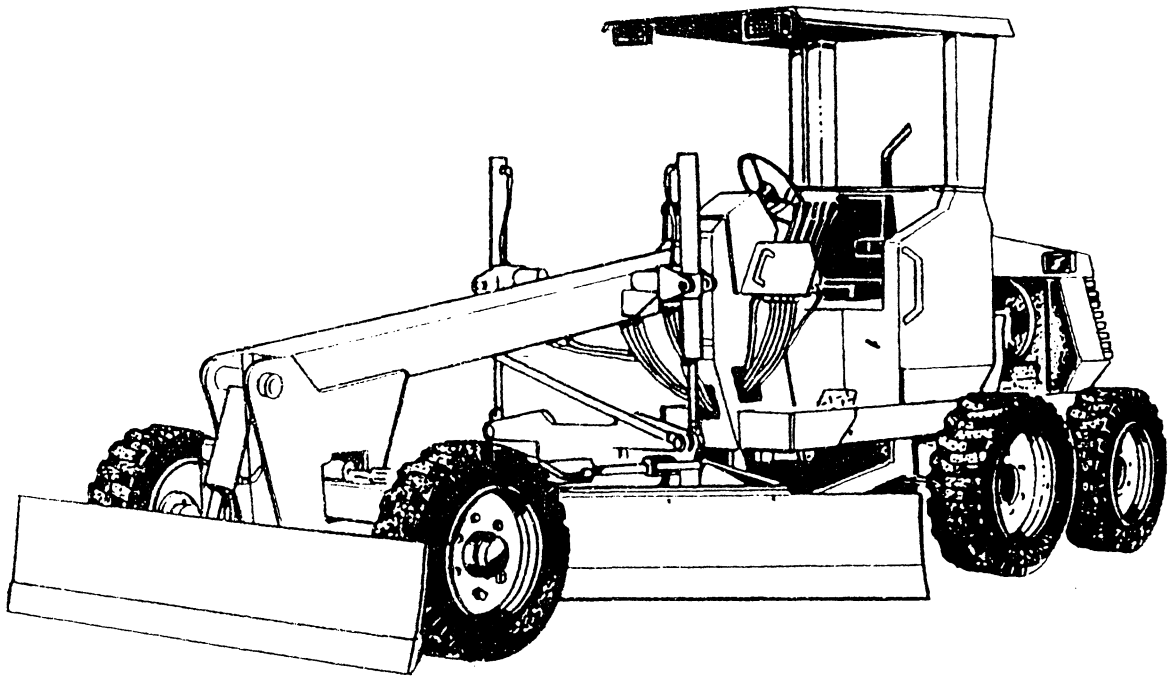
CONTENTS

This manual is made up of two sections. The first section is operations and covers areas of receiving, inspection, operations, transporting and preventative maintenance. The second section is the parts section and provides easy identification of parts. This section may also be used as a ready reference to servicing various components.

OPERATIONS

This section is provided to aid the operator in the operations of the 635B MOTOR GRADER in such areas as inspection, engine start-up, engine shut down, and transporting.

This section does not attempt to show actual grading technique. The grading should only be done by qualified motor grader operator who has been well trained in all types of grading applications. The operator should also thoroughly understand the mechanical characteristics of a motor grader and the varying elements and terrain that it can safely operate in.



MODEL 635B MOTOR GRADER

RIGHT HAND AND LEFT HAND SIDES PLUS ABBREVIATIONS

The terms right hand and left hand (abbreviated R.H. and L.H.) as used in this manual to indicate the right and left sides of the machine as viewed from the operator's platform.

There are also other abbreviations such as: A/S (As Specified), A/R (As Required), and N/A (Not available).

IMPORTANT SAFETY INSTRUCTIONS

This manual provides important information to familiarize you with safer operating and maintenance procedures. Even though you may be familiar with similar equipment you **MUST** read and understand this manual before operating this unit.

Safety is everyone's business and is one of your primary concerns. Knowing the guidelines covered in the following paragraphs and in Section 1 will help provide for your safety, for the safety of those around you, and for the paver's proper operation.

LOOK FOR THESE SYMBOLS WHICH POINT OUT ITEMS OF EXTREME IMPORTANCE TO YOU AND YOUR CO-WORKERS SAFETY. READ AND UNDERSTAND THOROUGHLY. HEED THE WARNING AND FOLLOW THE INSTRUCTIONS.

! DANGER !

YOU MUST FOLLOW ALL DANGER SAFETY NOTES. IF YOU DO NOT FOLLOW THE INSTRUCTIONS, YOUR MISTAKE MIGHT LIKELY RESULT IN VERY SERIOUS INJURY OR DEATH.

! WARNING !

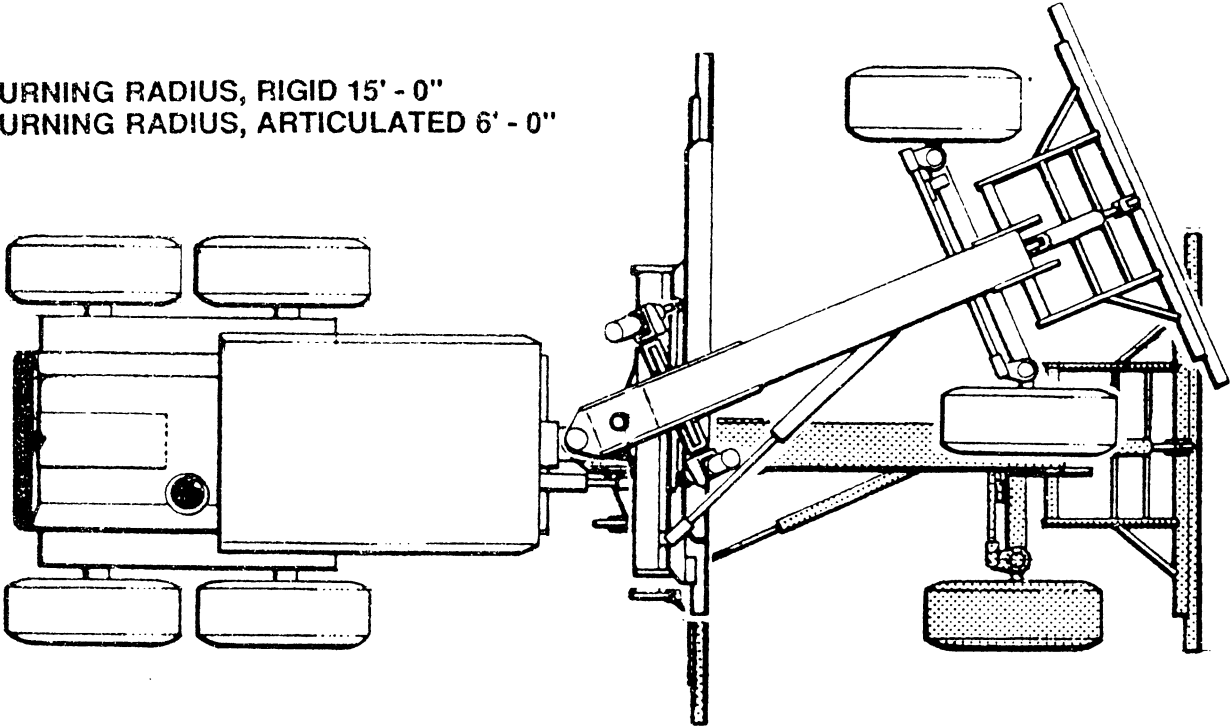
WARNING safety notes must **ALSO** be followed. Your mistake might result in **SERIOUS INJURY** to yourself or others.

! CAUTION !

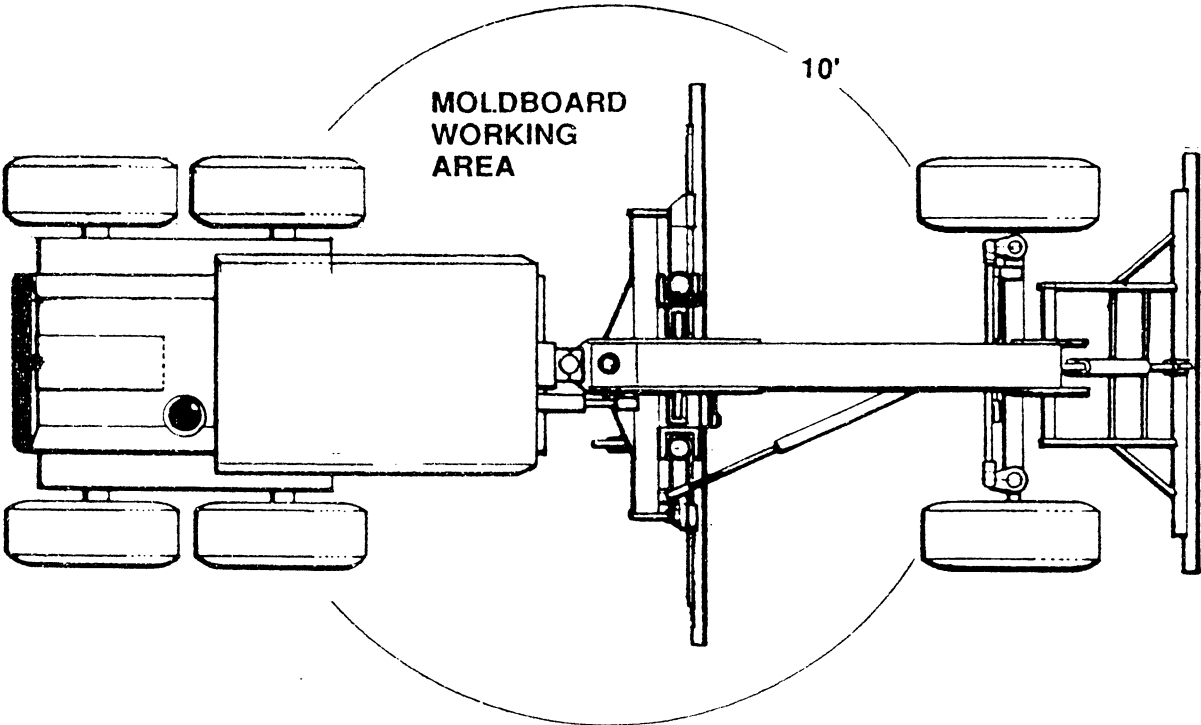
CAUTION safety notes are **ALSO** very important. They point out to you where your mistakes could cause **PHYSICAL HARM** to you or others, or damage to the machine.

TOP VIEW OF MOTOR GRADER

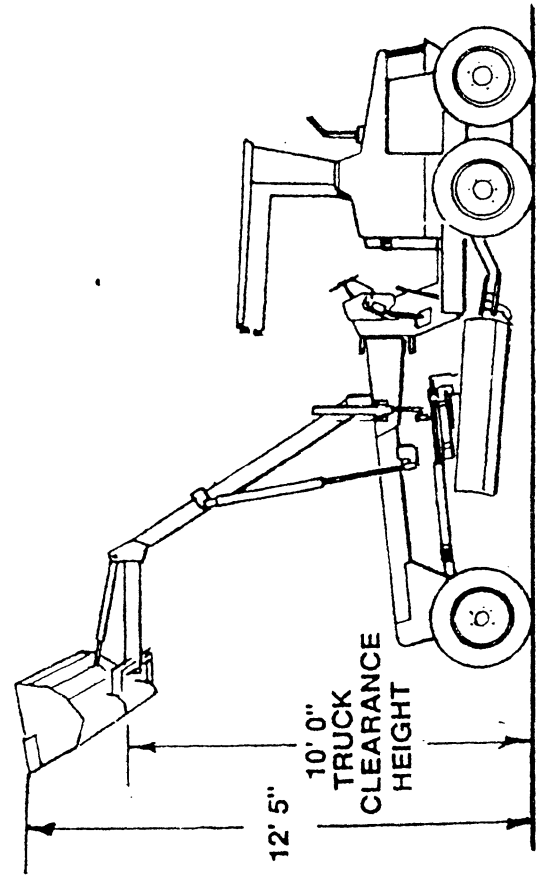
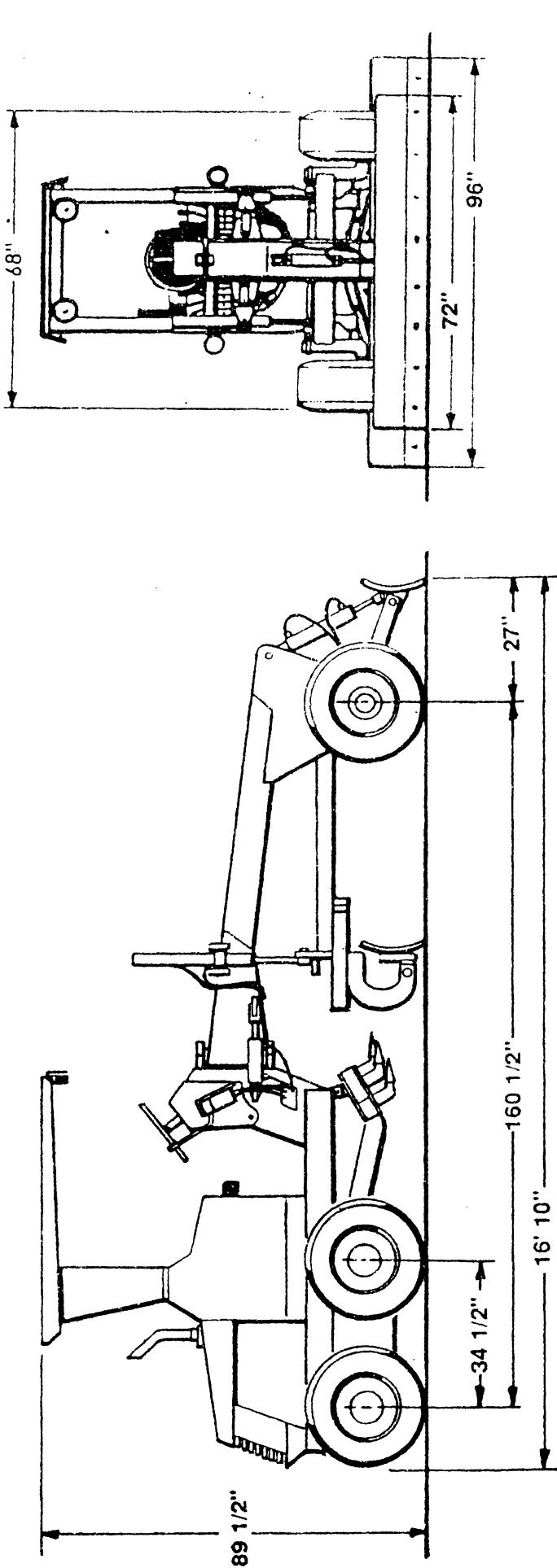
TURNING RADIUS, RIGID 15' - 0"
TURNING RADIUS, ARTICULATED 6' - 0"



ARTICULATED POSITION



RIGID POSITION



GENERAL SPECIFICATIONS

ENGINE: 48 H.P. at 3000 RPM. Liquid cooled displacement of 127 Cubic inches.

FUEL RESERVOIR: 14 U.S. gallons.

WEIGHT: 6,750 pounds
Front: 2,400 lbs. Rear: 4,350 lbs.

OVERALL LENGTH: 16 feet 10 inches

OVERALL WIDTH: 6 feet

OVERALL HEIGHT: 7 feet

MOLDBOARD: 8 feet wide X 14 inch high blade with 2 feet of side shift, 10.5 inches of raised clearance, 6.5 inches of penetration, 30 degrees of hydraulic tilt and a replaceable blade.

FRONT BLADE: 6 feet wide X 14 inch high curved, 11 inches of raised clearance, 4 inches of penetration and a replaceable blade.

SCARIFIER: 28 inches wide 4 tooth, center mounted, 7 inch maximum depth penetration, 10 inch raised clearance.

STEERING: Hydraulic power steering with articulation to allow 10 feet turning radius (2) 10-16.50 X SSG 6 Ply front tires, free wheeling.

HYDRAULIC RESERVOIR: 14 U.S. gallons.

HYDRAULIC SYSTEM: 2.8 cu. in. / rev. variable volume hydraulic pump. Tandem gear pumps for steering and other components.

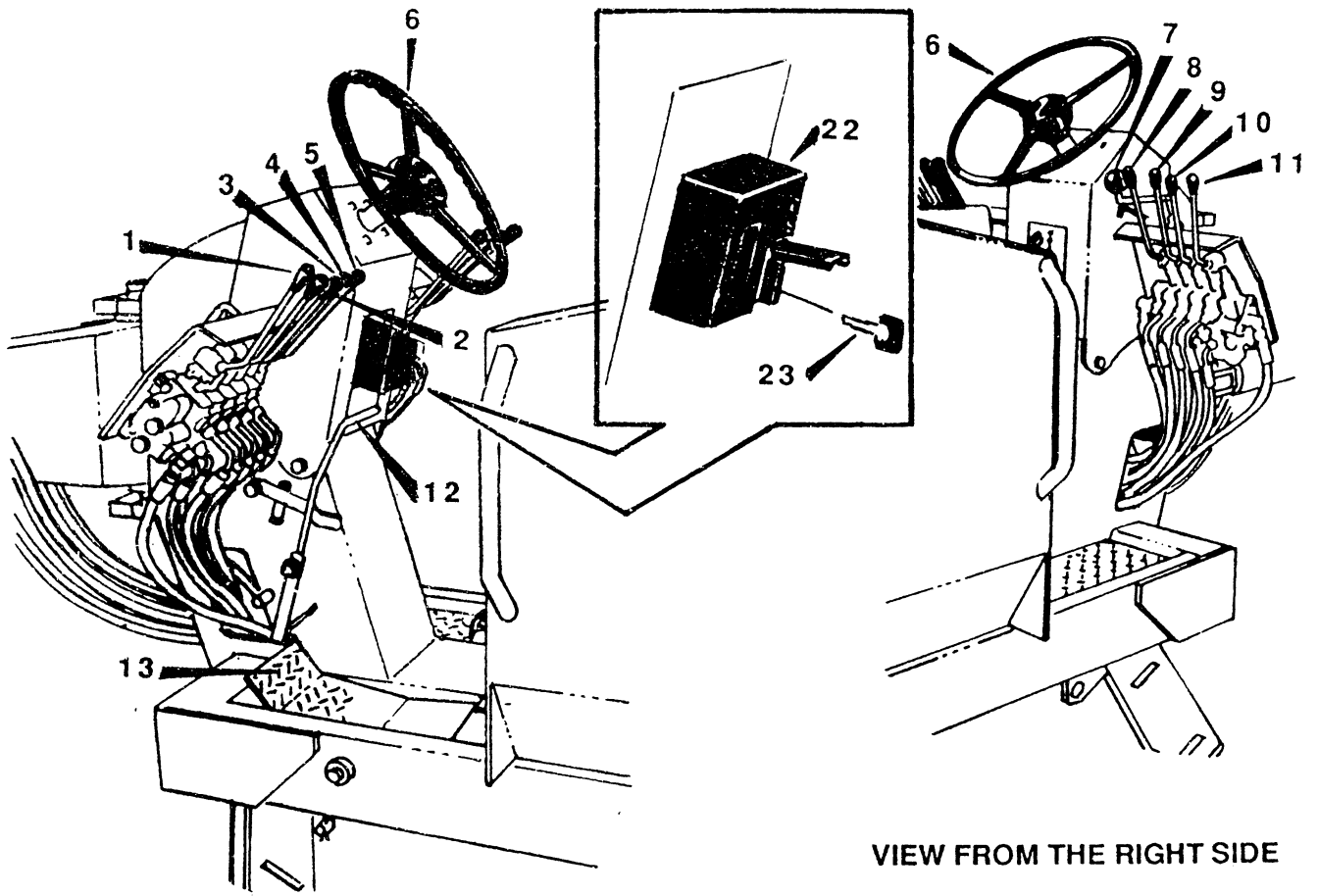
DRIVESYSTEM: Hydrostatically powered 4 wheel tandem, chain driven, rear drive wheels, 10-16.50 X SSG 6 Ply tires, speed > 8 MPH, rear wheels on 34 inch centers. 100% mechanically linked positive traction.

OPERATOR AREA: Full cushioned adjustable operator seat, all controls and gauges in easy reach and visibility, parking brake.

OPTIONS:

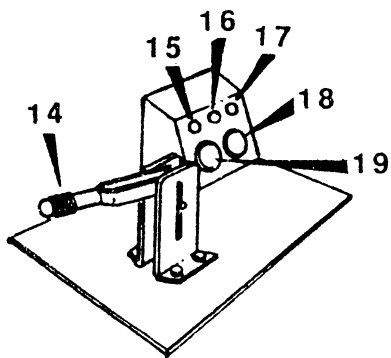
- Full Fabricated Cab
- Heater
- Air Conditioner
- Light Package
- Front Loader Bucket

OPERATOR'S CONTROL GROUP

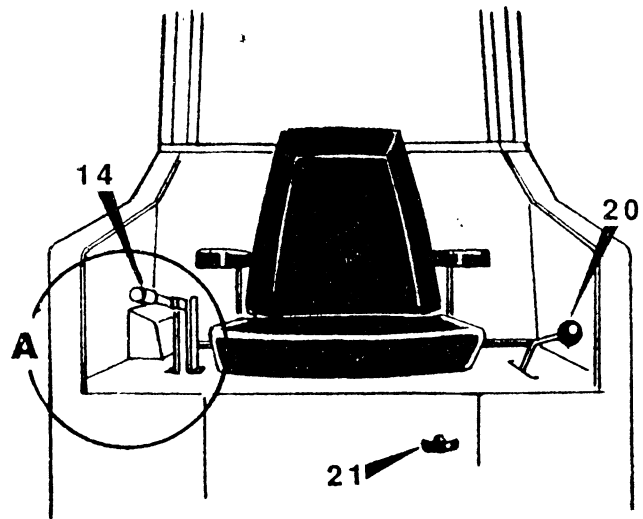


VIEW FROM LEFT SIDE

VIEW FROM THE RIGHT SIDE



VIEW IN CIRCLE 'A'



VIEW TOWARD REAR

FIGURE 1

OPERATOR'S CONTROL GROUP

ITEM NO.	CONTROL	DESCRIPTION
1	Lever, bucket lift	Raises or lowers front loader bucket.
2	Lever, bucket tilt	Rotates bucket to load or unload.
3	Lever, moldboard tilt	Rotates moldboard to direct cut.
4	Lever, moldboard slide	Extends moldboard to both sides.
5	Lever, scarify	Lifts and lowers scarifier.
6	Wheel, steering	Controls direction of motor grader.
7	Lever, console lock	Articulates motor grader from side to side.
8	Lever, articulate	Locks console in various positions.
9	Lever, blade angle	Angles moldboard blade.
10	Lever, left lift	Lifts moldboard on left side.
11	Lever, right lift	Lifts moldboard on right side.
12	Lever, shift lock	Locks and unlocks foot pedal shift.
13	Pedal, foot	Controls forward and reverse movement.
14	Brake, parking	Prevents motor grader from rolling.
15	Switch, toggle	Shifts from high to low gear.
16	Switch, light	Front, working.
17	Switch, flasher	Warning light
18	Gauge, meter	Indicates hours motor grader is used.
19	Gauge, fuel	Indicates amount of fuel available.
20	Lever, throttle	Adds RPMs to engine.
21	Lever, engine shut down	Shuts engine off by removing air.
22	Ignition box	Houses ignition and indicators for air filter, battery, oil pressure, fuel, temp. and electric system.
23	Key, start	Used to start engine.

RECEIVING

Although the 635B motor grader has been inspected thoroughly at the factory, road hazards or vandalism could have happened during transporting and may have resulted in damage to the motor grader. For this reason the motor grader should be checked out and inspected. Follow the procedures below and make necessary repairs before putting the motor grader into service.

1. Check engine oil level / see engine manual.
2. Check fuel tank, cooling system, chain boxes, engine oil and hydraulic oil reservoir, for proper levels also for contaminants. If contaminants are present, flush system.
3. Check chain boxes for proper level (approximately 4" to 5" or 7 gallons of No. 80 to 90 motor oil in bottom of each chain box). Also check for contaminants, if present flush chain box clean. Make sure chains, sprockets and spline areas are flushed and cleaned of any foreign particles.
4. After reading this manual and fully understanding the contents of it, check all hydraulic functions. If malfunctions are present, make necessary adjustments. **DO NOT MAKE REPAIRS UNLESS YOU ARE QUALIFIED TO DO SO**, otherwise consult your dealer.
5. Check for damaged or missing parts, if parts are missing or motor grader is damaged, check with dealer.

PRE-START INSPECTION

Prior to operating the motor grader it should be checked thoroughly. This inspection should help provide for a more trouble free motor grader. Follow the steps below:

1. Check for leaks, excessive wear, loose or broken components.
2. Check all fluid levels:
 - A. Engine oil and water (see engine manual).
 - B. Hydraulic oil level is determined by dip stick on filler cap. Fill to proper level.
 - C. Fuel, diesel.

! WARNING !

DO NOT WELD TO MOTOR GRADER WITHOUT FIRST DISCONNECTING BATTERY CABLE.

! WARNING !

DO NOT USE YOUR HANDS OR USE OBJECTS IN THE PROCESS OF FINDING HYDRAULIC LEAKS. HYDRAULIC LEAKS CAN BE SEEN VISUALLY.

! CAUTION !

DECALS PROVIDE VALUABLE INFORMATION AND SHOULD BE REPLACED IF MISSING OR WORN.

! WARNING !

DO NOT LEAVE MOTOR GRADER RUNNING WITH KEY AVAILABLE WHILE UNATTENDED.

! WARNING !

IF HYDRAULIC OIL, FUEL, OR ENGINE OIL LEAKS ARE PRESENT, MAKE NECESSARY REPAIRS PRIOR TO PUTTING MOTOR GRADER INTO SERVICE.

! WARNING !

WHEN OPERATING THE MOTOR GRADER DRIVER SHOULD BE AWARE THAT IT IS NOT POSSIBLE TO SEE THE ENDS OF THE FRONT BLADE.

! WARNING !

MOLDBOARD, SCARIFIER AND FRONT BLADE SHOULD BE IN FULL UP POSITION WHEN OPERATING MOTOR GRADER TO OR FROM JOB SITE.

NOTE:

Illustrations supporting the following operational procedures are on page 5.

NOTE:

DO NOT DISENGAGE TRANSMISSION LOCK LEVER BEFORE STARTING ENGINE.

STARTING PROCEDURES

The diesel engine equipped with this motor grader is an easy starting engine. The normal operating rpm range is between 1000 to 2500 rpms. As with any engine after a cold start a sufficient amount of time should be allowed for warm up. Follow the procedures below and if engine does not start after several attempts refer to the trouble shooting chart on page 17. If problem persists, see engine manual.

1. Place transmission foot pedal into the neutral position, the transmission lock lever should be engaged. See figure 3.
2. Advance throttle lever to full open position.
3. Push in engine shut down lever.
4. Turn key in ignition to preheat for about 15 to 20 seconds or until light goes out. In cold weather more time may be necessary.
5. After preheat turn key to start.
6. If engine does not start, repeat above procedures.
7. After engine starts, regulate engine rpms with throttle. Do not allow engine to over rev when cold, this could harm the hydraulic components.

ENGINE SHUT-DOWN

1. Pull throttle back to low idle.
2. Position transmission foot pedal into neutral position and lock with transmission lock lever.
3. Turn ignition switch to off.
4. Pull out engine shut-down handle.
5. Lower blades.
6. Set park brake.

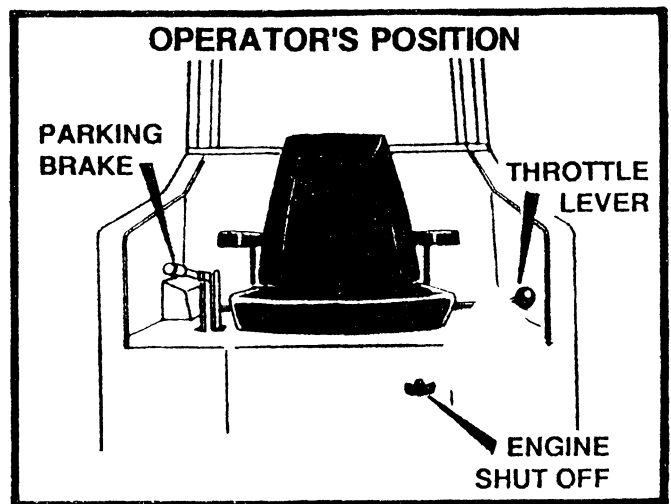
NOTE:

Prior to making any movement in cold weather (40° F or below) allow enough time for engine and hydraulic oil to warm up.

FORWARD/REVERSE AND BRAKING

The model 635B motor grader equipped with a forward and reverse variable speed, hydraulic transmission. The foot pedal is located on the floor left of the control console. By pushing forward and down the motor grader will move ahead. Down and back, heel pressure will move the motor grader to the rear.

1. The operator should be seated in the operators position before making any control function. See Figure 2.
2. Check and clear area of person or persons who may get into the way of the motor grader movements.
3. Position scarifier, moldboard and front blade into desired position.
4. Release parking brake.

**FIGURE 2**

5. If forward movement is desired, push the transmission foot pedal down with toe pressure. If reverse movement is desired, reverse procedure, push foot pedal down with heel.
6. During operation set throttle and transmission levers to appropriate speed and power settings.
7. If the engine becomes overloaded (starts to pull down) ease the transmission foot pedal toward the neutral position. This will provide more torque or pulling power.

8. To stop, bring the transmission foot pedal to the neutral position.
9. After parking the motor grader, engage the parking brake and the transmission locking lever.
10. Lower blades.

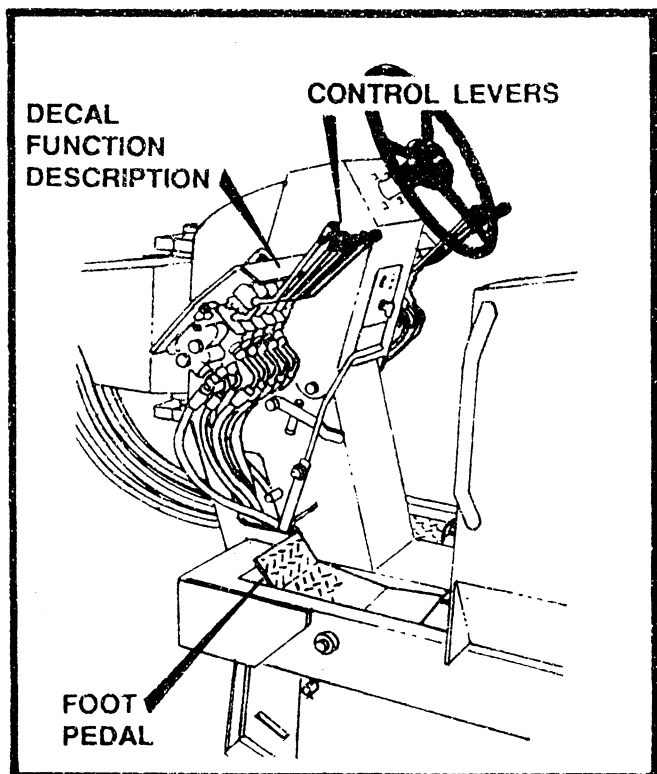


FIGURE 3

NOTE:

The control levers for operating the moldboard, scarifier front blade and articulation are located on each side of the steering wheel. To operate either of these functions refer to decal adjacent to each control lever. See figure 3.

! WARNING !

DO NOT USE CONTROL HANDLES AS SUPPORTS WHILE ENTERING OR EXITING FROM DRIVER'S POSITION.

! WARNING !

DO NOT OPERATE HYDRAULIC LEVERS OR ATTEMPT TO MOVE MOTOR GRADER UNLESS SEATED IN OPERATOR'S POSITION.

! CAUTION !

WHEN MOTOR GRADER IS IN FULL ARTICULATION AND MOLDBOARD COMPLETELY EXTENDED, IT IS POSSIBLE FOR THE MOLDBOARD TO MAKE CONTACT WITH THE FRONT TANDEM TIRE.

! WARNING !

BEFORE MAKING ANY MOVEMENT WITH MOTOR GRADER OR MOTOR GRADER COMPONENTS. MAKE SURE ALL PERSONNEL ARE CLEAR OF AREA.

TRANSPORTING

When transporting the motor grader on a flat bed vehicle, the vehicle should be large enough to safely handle the size and weight of the motor grader in all driving situations.

1. Park transport vehicle on level surface, secure working hand brake and block wheels in both directions. See figure 4.
2. Load motor grader onto the flat bed vehicle. Block wheels in both directions preventing the motor grader from rolling.
3. Position the moldboard as shown in figure 4. Lower the moldboard, scarifier and front blade to the flat bed. Secure the motor grader to the flat bed with a chain strong enough not to fail during the transporting of the grader.

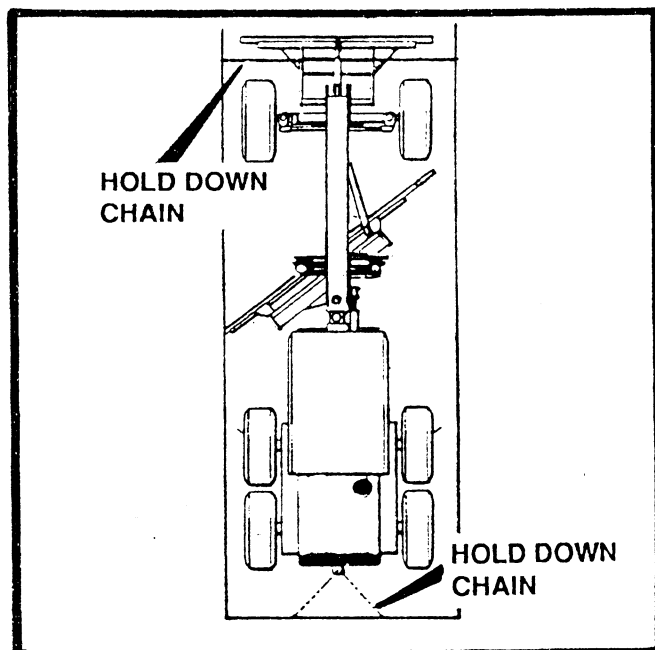


FIGURE 4

PREVENTATIVE MAINTENANCE

To prolong the useful life of the motor grader, a schedule for performing preventative maintenance has been provided below. In conjunction with this schedule an effort should be made to keep all functions of the motor grader working and looking as good as the day it arrived new.

ENGINE

1. Refer to engine manual to determine interval between changing oil and oil filter plus the SAE oil requirements.
2. Clean air filter every 100 hours or more often if extremely dusty condition exist. Replace filter if needed.
3. Replace fuel filter every 400 hours or more often if extremely dusty conditions exist.
4. In cold weather use anti-freeze as directed by engine manual.
5. Check engine gauges if not operating properly, or damaged, replace.

HYDRAULIC SYSTEM

1. Replace hydraulic oil filter cartridge every 100 hours or when oil filter gauge indicates.
2. Change oil annually. If contaminants are present, flush hydraulic system before refilling.
3. Check hydraulic gauges, if not operating or damaged, replace.
4. Check hydraulic cylinders, valves, motors, pumps and hoses for leaks or damage. Repair or replace these items if necessary.

CHAIN BOX

1. Change oil annually or whenever it becomes dirty with contaminants. Use motor oil SAE 90 and fill approximately 4" to 5" above bottom of chain box, or approximately 7 gallons.
2. Check chains or sprocket for wear, if needed replace or repair.
3. If damaged, replace gasket on chain box access cover.

OTHER COMPONENTS

1. Check all decals and name plates. Replace if difficult to read.
2. Make sure head lamps and marking lamps are secure and in working order.
3. Check filler cap, breathing caps and grease fittings, repair or replace if necessary.
4. Check for loose, missing, damaged or corroded parts. Repair or replace as necessary.

FINAL DRIVE

1. Check oil level every 30 days.
2. Change oil annually.

! WARNING !

WHEN SERVICING MOTOR GRADER, MAKE SURE ALL UNTRAINED PERSONNEL ARE CLEAR OF AREA.

! WARNING !

DO NOT SERVICE MOTOR GRADER UNLESS QUALIFIED TO DO SO.

! DANGER !

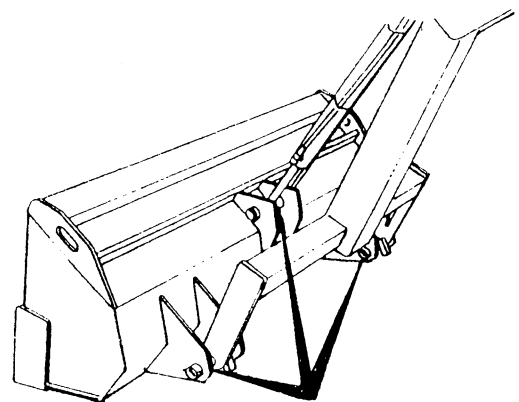
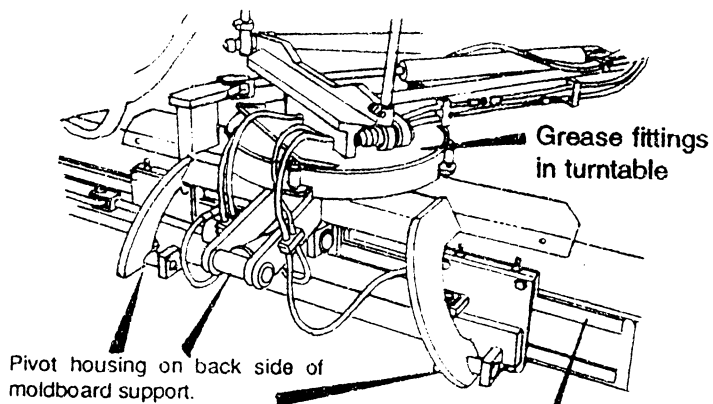
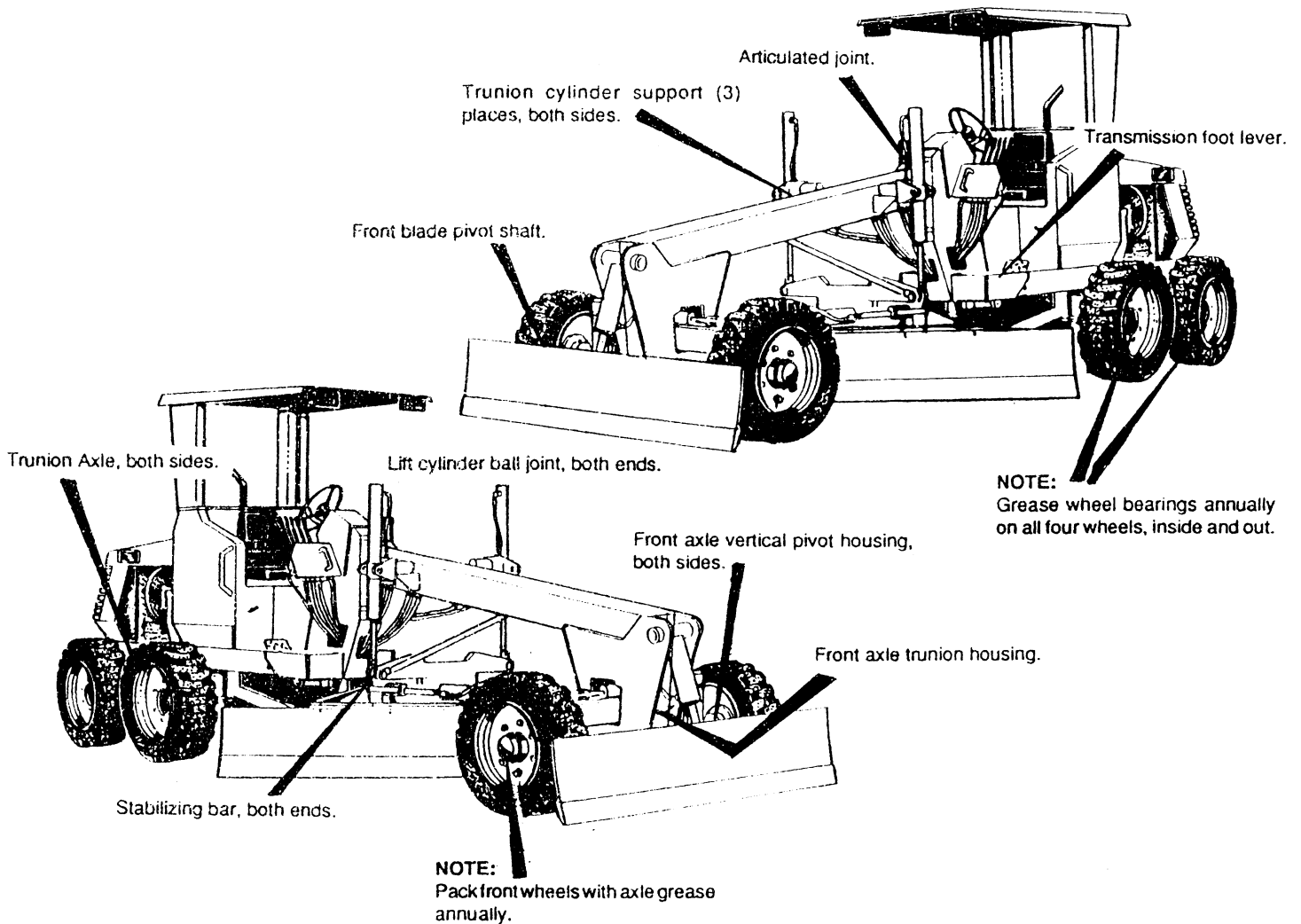
DO NOT FILL FUEL TANK OR HYDRAULIC TANK WHILE ENGINE IS RUNNING.

! WARNING !

DO NOT MAKE ANY REPAIRS OR INSPECT MOTOR GRADER WHILE MOTOR GRADER IS BEING JACKED, SUPPORT BY MOLDBOARD, SCARIFIER OR FRONT BLADE.

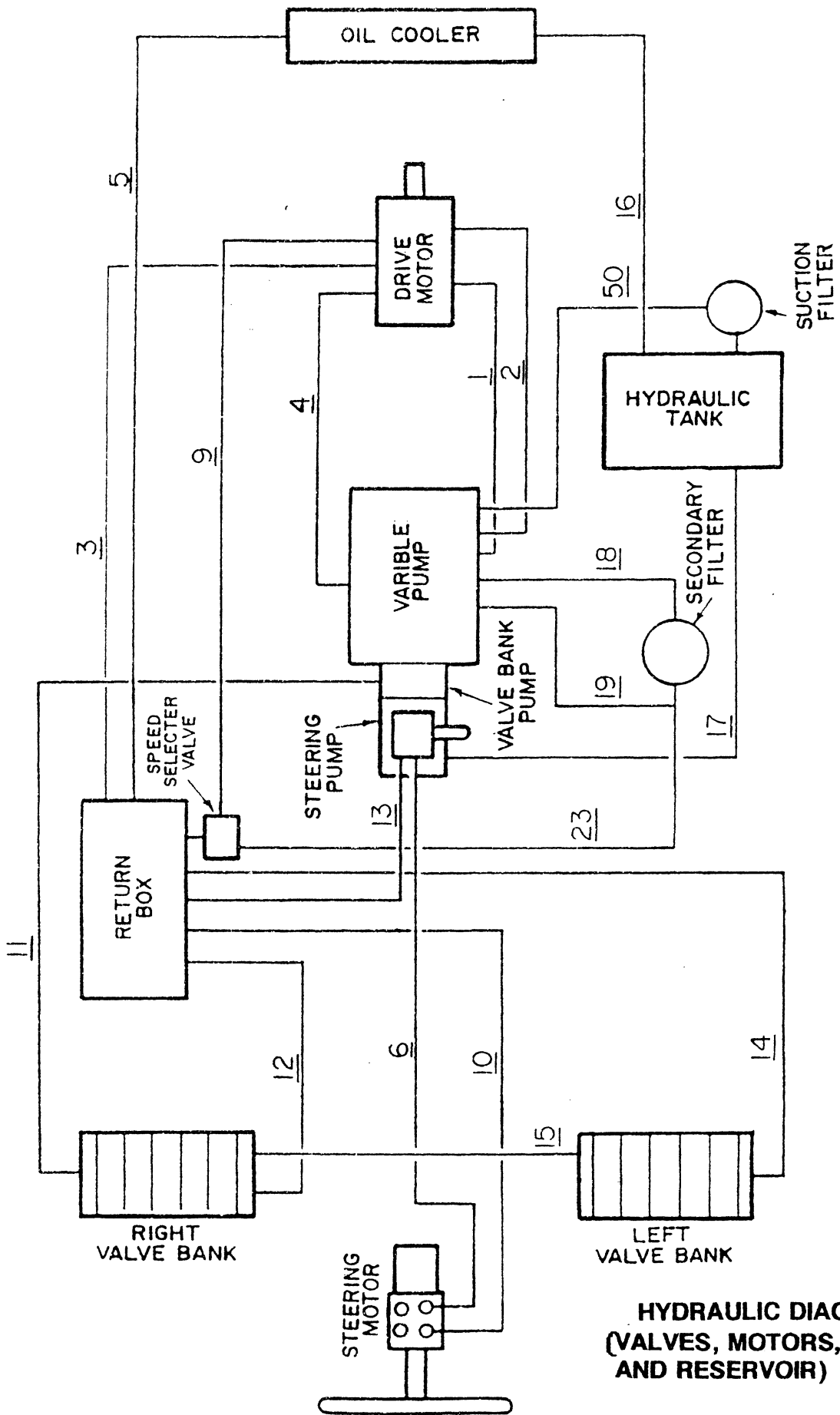
LUBRICATION CHART

Location of grease fittings are identified in illustrations below. Lubricate these fittings every 40 hours with SHELL AVANIA EP grease 2 or equivalent. The chain boxes, moldboard slide, front and rear wheels are to be lubricated as note indicates.

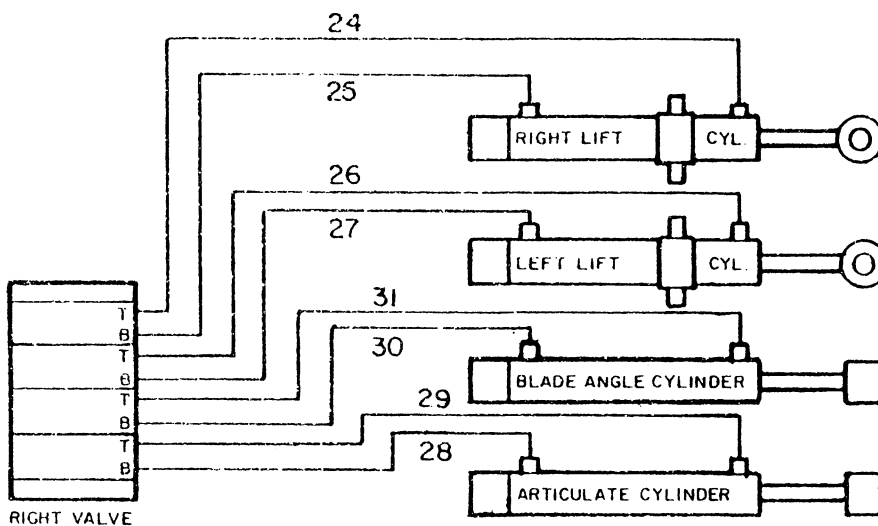
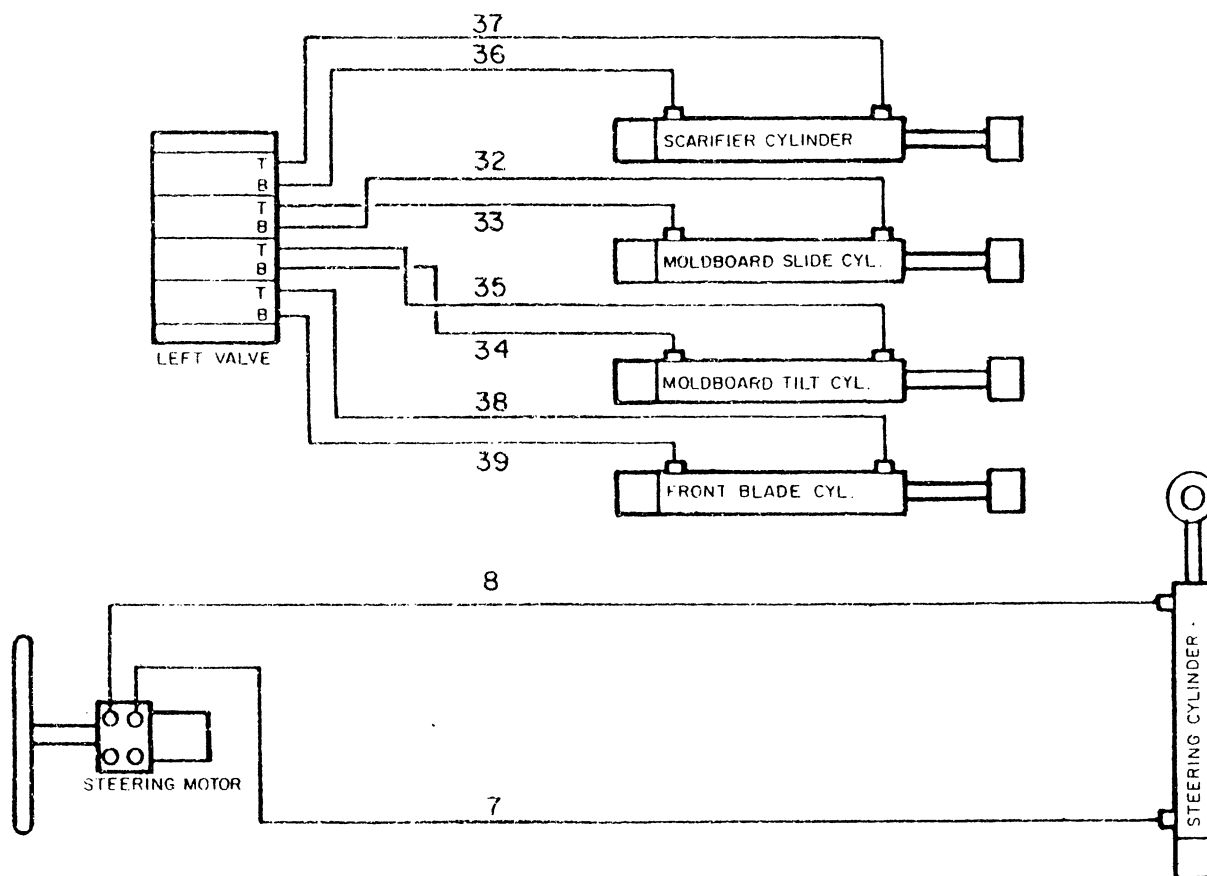


Pivot Housing

NOTE:
Use axle grease and grease moldboard slide as needed.

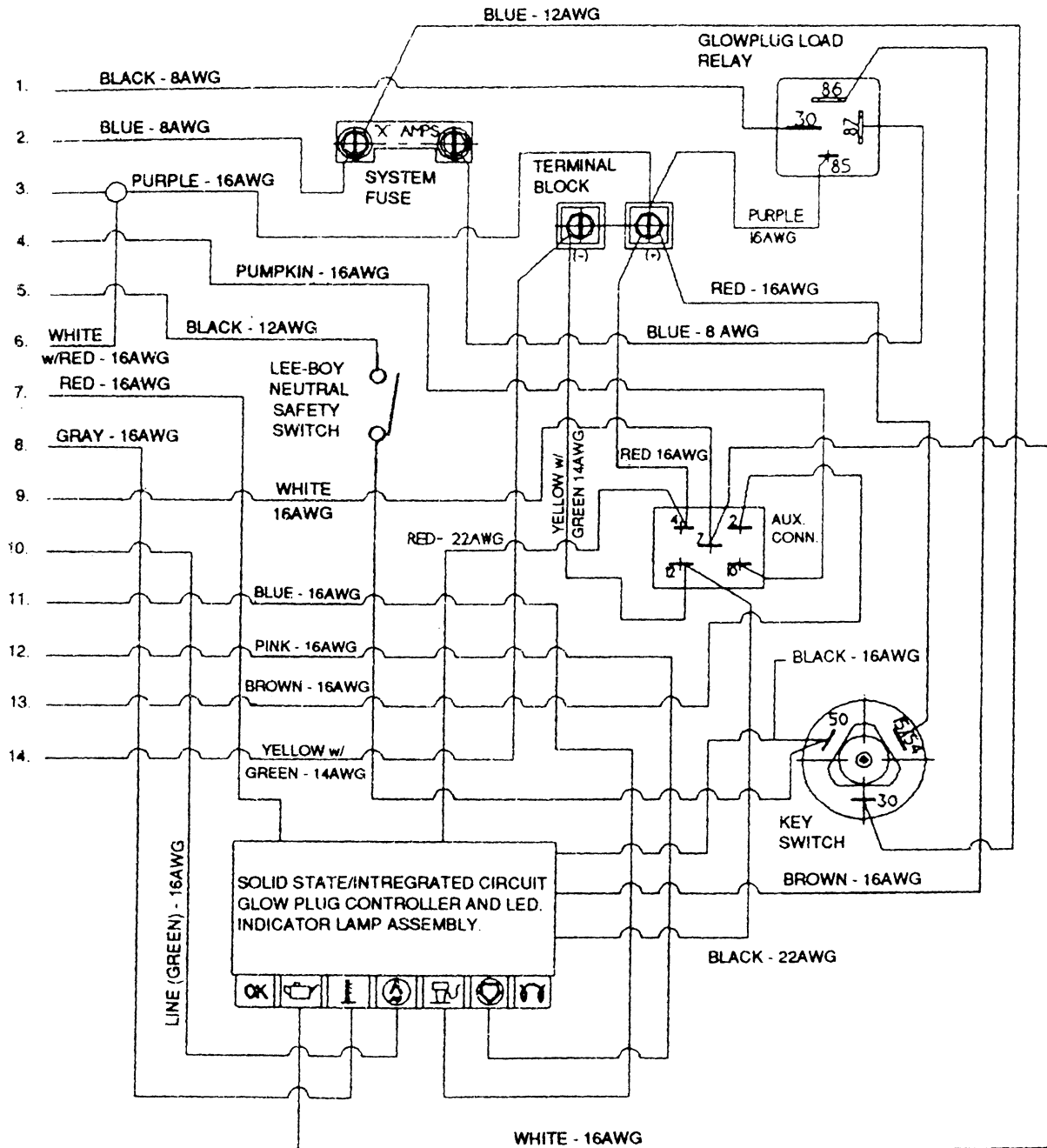


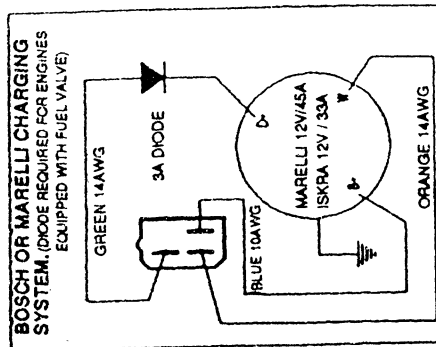
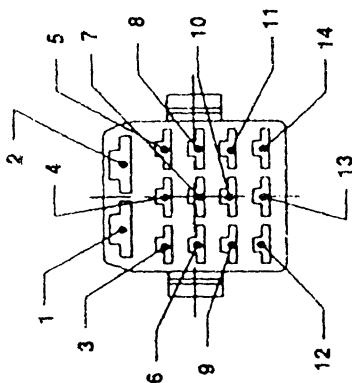
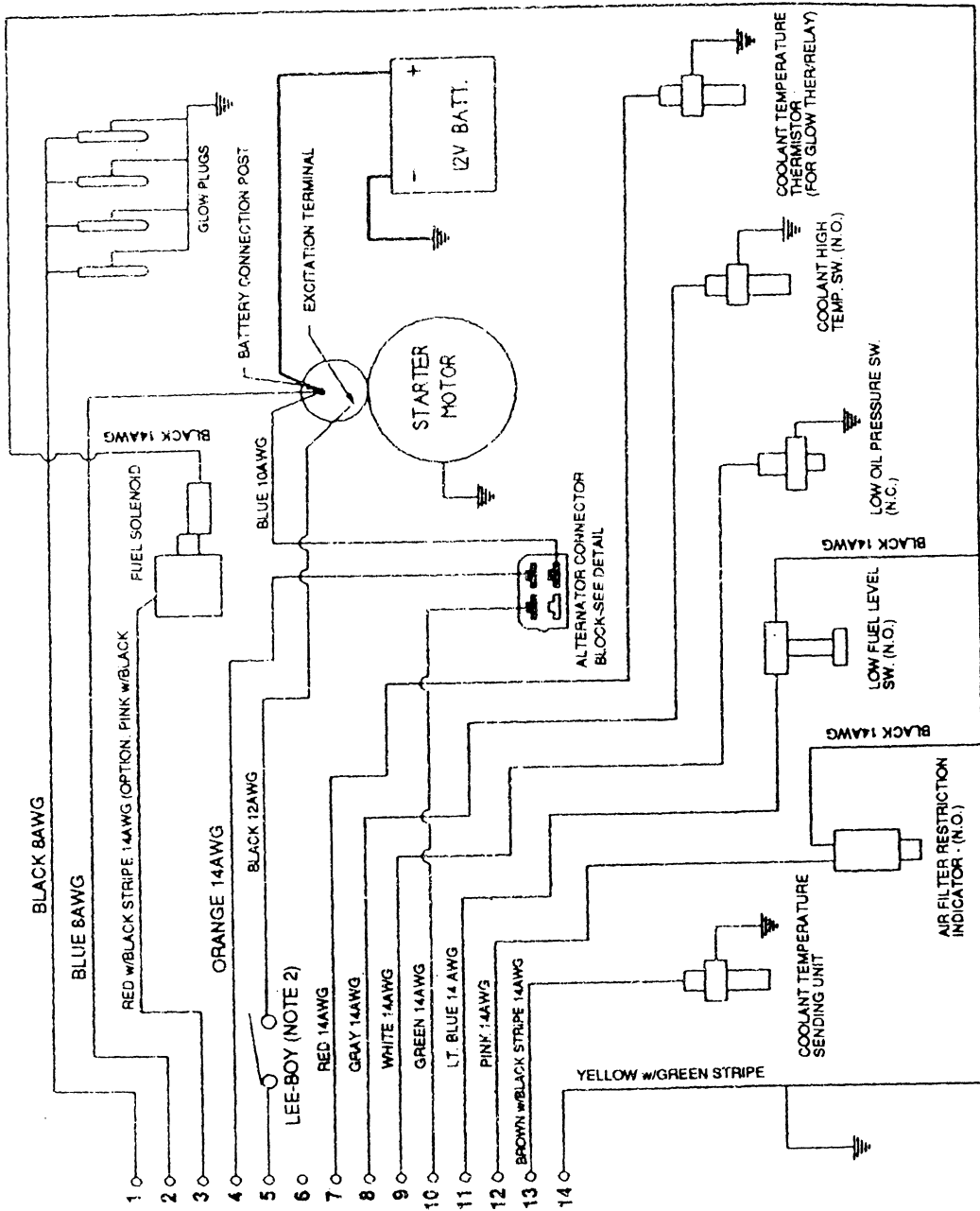
**HYDRAULIC DIAGRAM
(VALVES, MOTORS, PUMPS,
AND RESERVOIR)**



**HYDRAULIC DIAGRAM
(VALVES, STEERING,
AND CYLINDERS)**

NEW STYLE CONTROL PANEL (STD.) FOR ALL LDW SERIES ENGINES

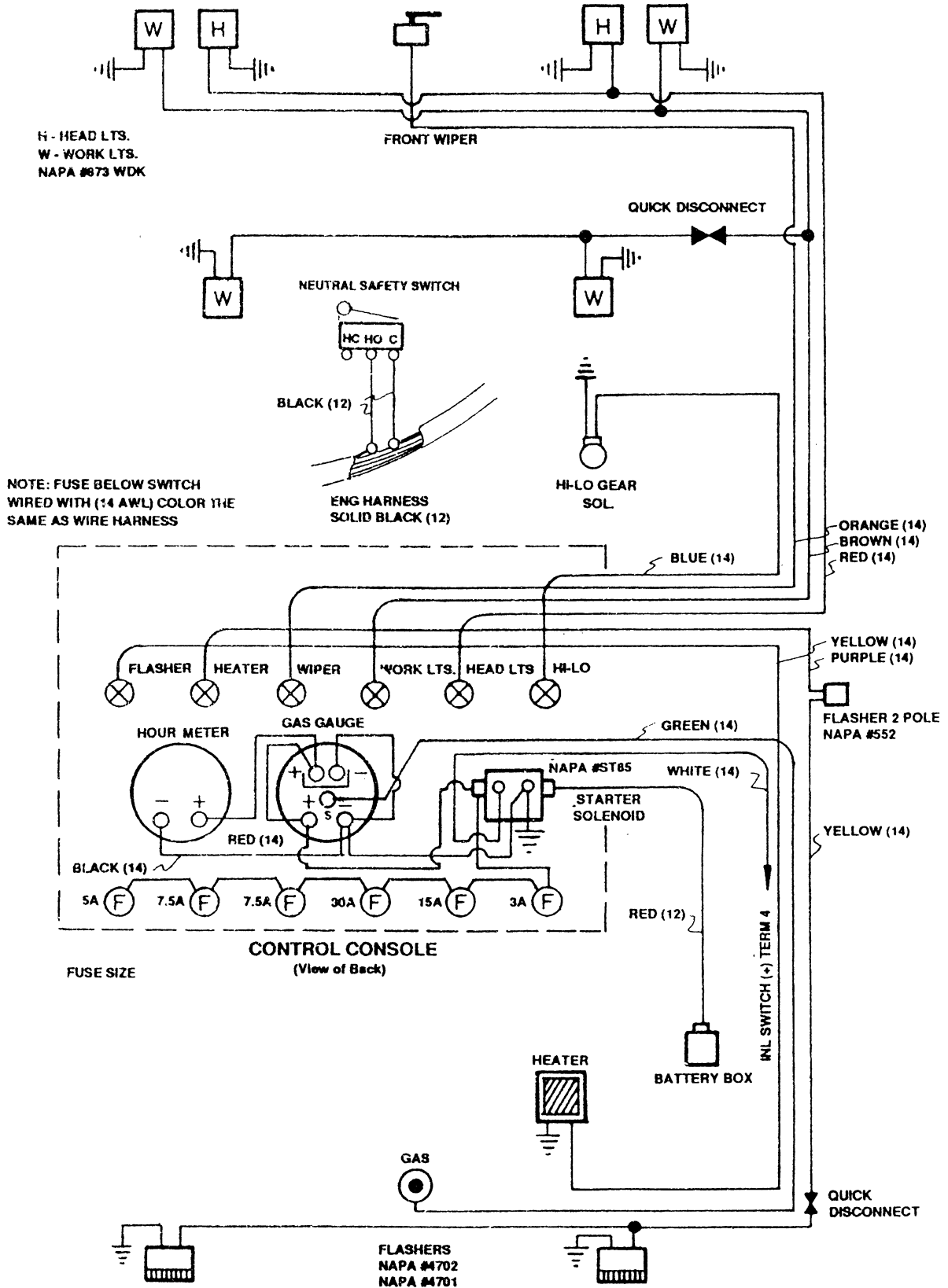




NOTE: TWO (2) PRIMARY SUPPLIERS OF ENGINE SIDE WIRING HARNESS ARE USED. THE DESIGN OF THE TWO SUPPLIERS DIFFERS ONLY WITH RESPECT TO THE ALTERNATOR CONNECTOR BLOCK AND DIODE PLACEMENT. ENGINES SUPPLIED WITH HARNESSES NOT EQUIPPED WITH THE ALTERNATOR CONNECTOR BLOCK WILL HAVE DIODES WITHIN THE GREEN 14 AWG WIRE AND LOCATED ON THE PANEL SIDE OF THE WIRING SYSTEM.

NOTE 2: LEE-BOY NEUTRAL SAFETY SWITCH.

CHD SERIES. ENGINE SIDE WIRING WITH OPTIONAL SENSORS.



**635B MOTOR GRADER
WIRING DIAGRAM**

Trouble Shooting Guide

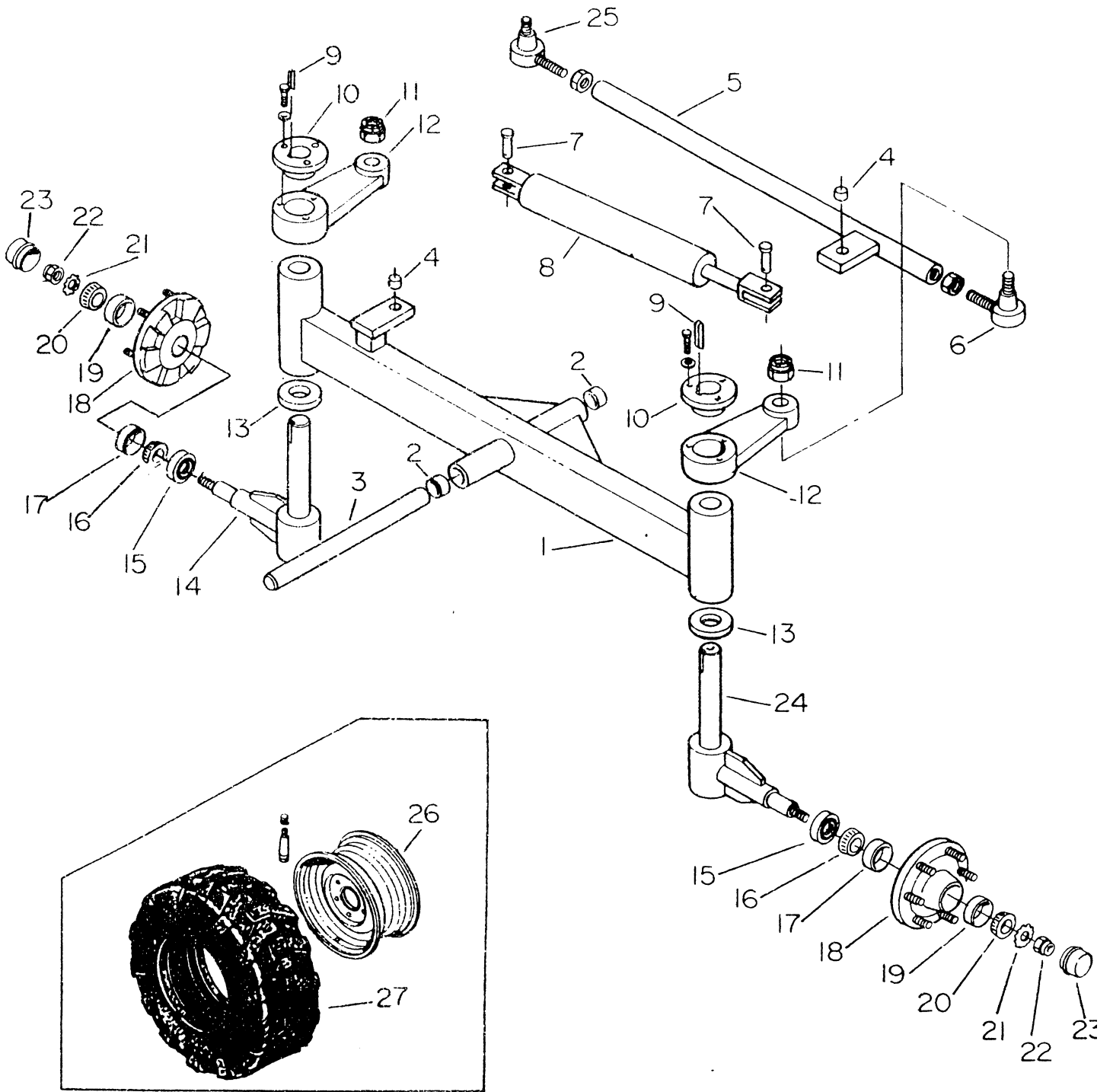
PROBLEM	PROBABLE CAUSE	SOLUTION
<ul style="list-style-type: none"> • Engine will not crank 	<ol style="list-style-type: none"> 1. Loose or frayed battery cables or terminal connections. 2. Neutral safety switch broken or not engaged. 3. Dead Battery. 4. Starter solenoid. 	<ol style="list-style-type: none"> 1. Tighten or replace cables or terminals. 2. Forward & Reverse control lever must be in neutral position for starting engine. 3. Check alternator/regulator, see local dealer or nearest automotive electrical service outlet. 4. Not recommended but can be checked by arcing from battery positive terminal on starter to solenoid terminal (see local dealer).
<ul style="list-style-type: none"> • Engine will crank, but will start. 	<ol style="list-style-type: none"> 1. Insufficient fuel supply. 2. Fuel shut-off petcock in off position. 3. Air intake restriction. 4. Injector lines leaking. 5. Fuel delivery or lift pump defective. 6. Dirty or clogged fuel filter. 	<ol style="list-style-type: none"> 1. Check fuel level. 2. Turn fuel shut-off petcock to open position. Petcock located bottom outlet of fuel tank. 3. Replace dirty or clogged air filter. Check for obstructions. 4. Excessive fuel around injectors or engine block. Replace fuel injector line if damaged. 5. Loosen fuel line fittings from fuel lift pump to fuel filter, manually pump unit and inspect for fuel if none replaced lift pump. 6. Replace.
<ul style="list-style-type: none"> • No forward or reverse. 	<ol style="list-style-type: none"> 1. Parking brake engaged. 2. Broken or disconnected transmission pump control linkage. 3. Hydraulic oil level. 	<ol style="list-style-type: none"> 1. Release parking brake. 2. Check all transmission pump control rods, and ball joint connections, clevis pins, etc. 3. Check oil level on dipstick located in top of hydraulic reservoir.



PARTS SECTION

LIST OF ILLUSTRATIONS

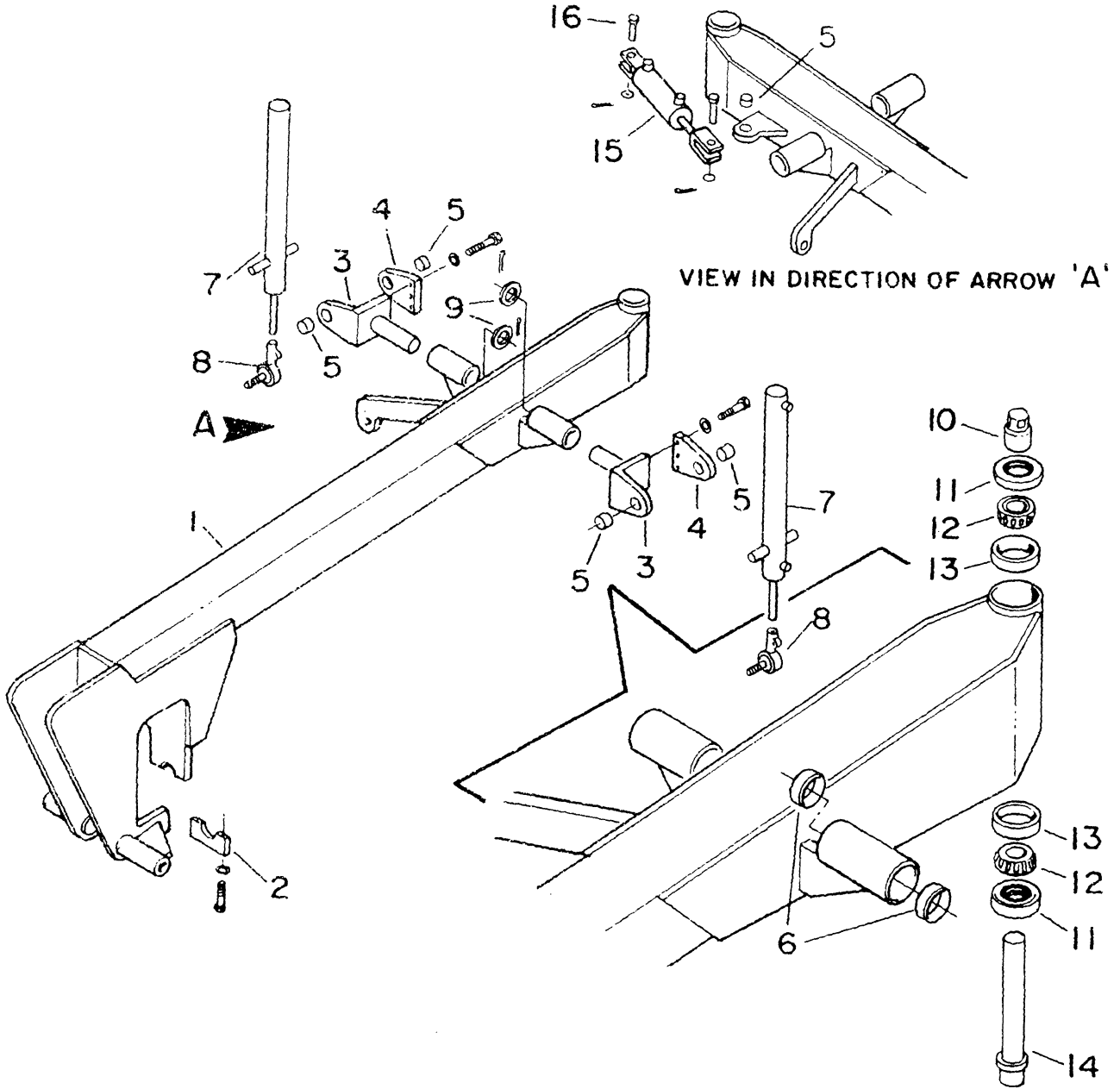
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FRONT AXLE



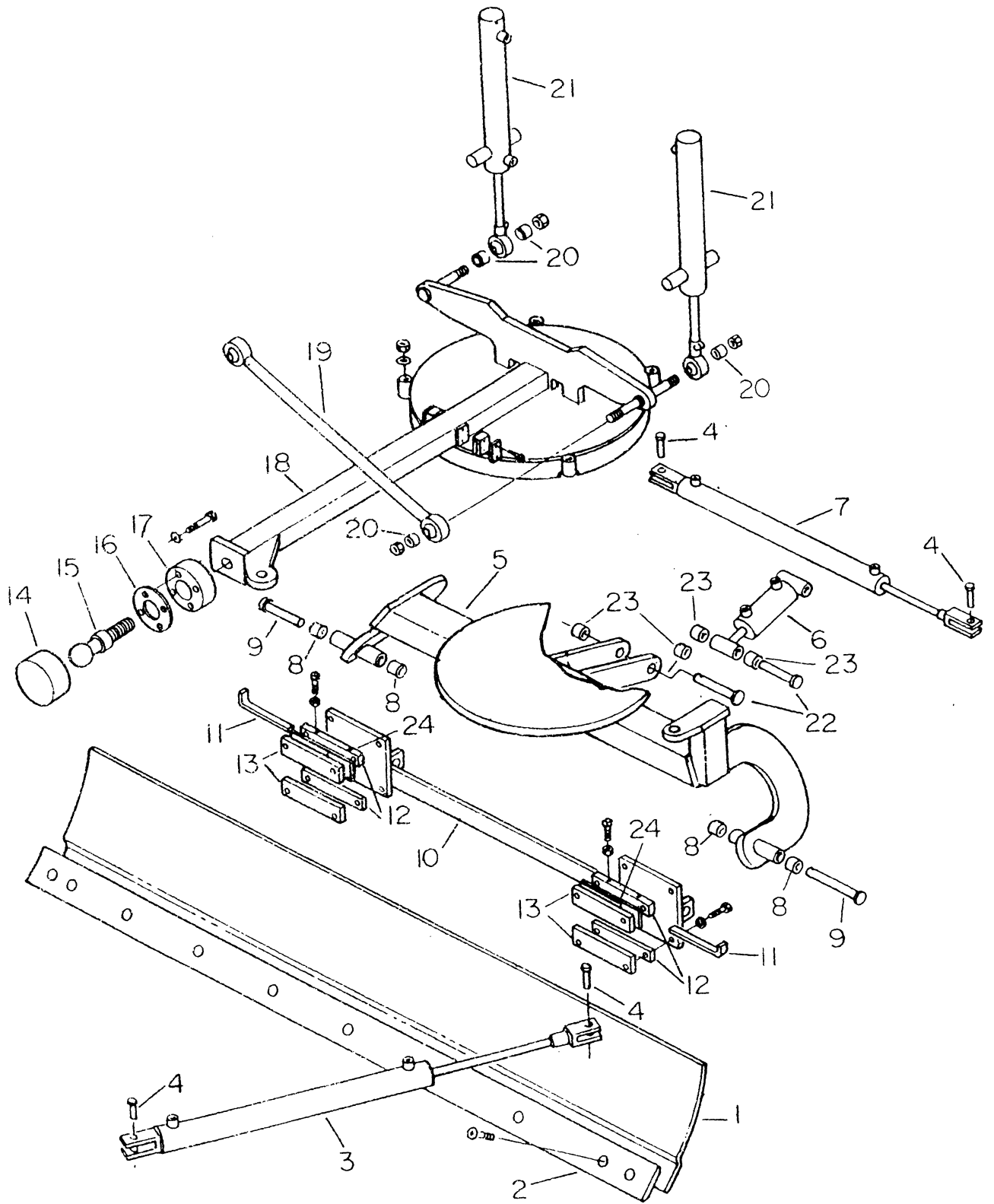
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	610353	Cross-Member, Front Axle	1
2	110130A	Bushing	2
3	610361	Shaft, Front End Pivot	1
4	220360	Bushing	2
5	610371	Tie Rod, Steering	1
6	110200	Ball Joint, Tie Rod L.H.	1
7	610380	Pin, Clevis	2
8	610110	Hyd. Cyl. Steering	1
9	610390	Key Stock	2
10	220100	Bushing, Taper Lock	2
11	610400	Nut	2
12	610410	Arm, Steering	1
13	610421	Thrust Washer	2
14	610431	Spindle Assy., R.H.	1
15	610190	Seal	2
16	610210	Bearing Cone, Inner	2
17	610200	Bearing Cup, Inner	2
18	610220	Hub	2
19	610230	Bearing Cup, Outer	2
20	610240	Bearing Cone, Outer	2
21	610250	Lock Washer	2
22	610260	Nut	2
23	610270	Cap, Grease	2
24	610432	Spindle Assy., L.H.	1
25	110210	Ball Joint, Tie Rod R.H.	1
26	610440	Rim	2
27	610450	Tire	2



FRONT FRAME ASSY.



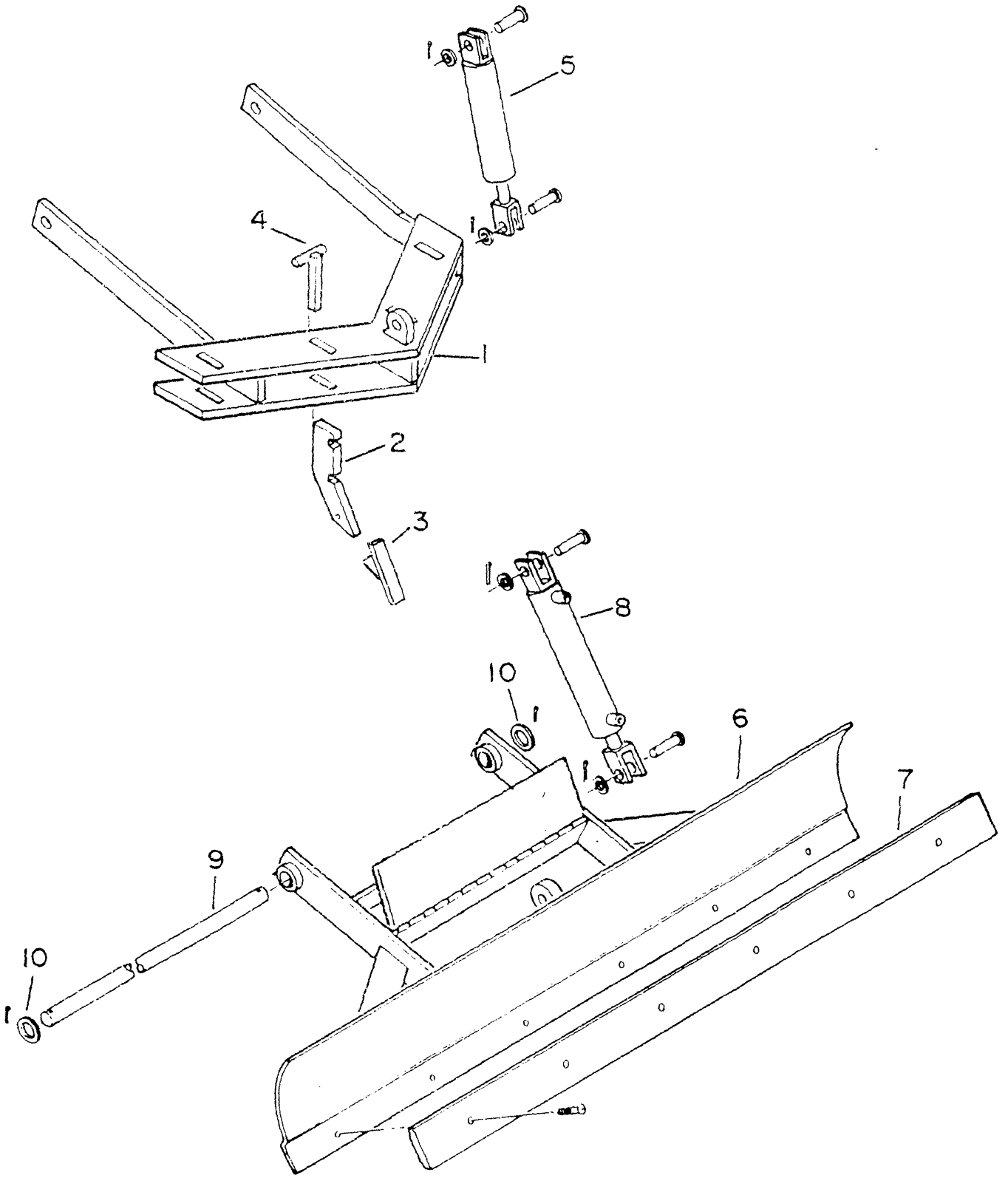
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	610334	Front Frame Boom	1
2	610341	Clamp, Front Axle Pivot	1
3	610061	Trunnion Mount, Moldboard Lift Cyl.	2
4	610051	End Cap, Trunnion Mount	2
5	220360	Bushing, Trunnion Mount End Cap	4
6	610080	Bushing, Trunnion Mount Swivel	6
7	610040	Hyd. Cyl. Moldboard Lift	2
8	610170	Rod End, Moldboard Lift Cyl.	2
9	610091	Washer, Trunnion Shaft	2
10	610100	Nut, Articulation Joint Shaft	1
11	210140	Seal, Articulation Joint Shaft	2
12	210180	Bearing Cone	2
13	210190	Bearing Cup	2
14	610140	Shaft, Articulation Joint	1
15	100060	Hyd. Cyl., Articulation Joint	1
16	210060	Pin, Clevis	2



**MAIN MOLDBOARD
& DRAW-BAR ASSY.**



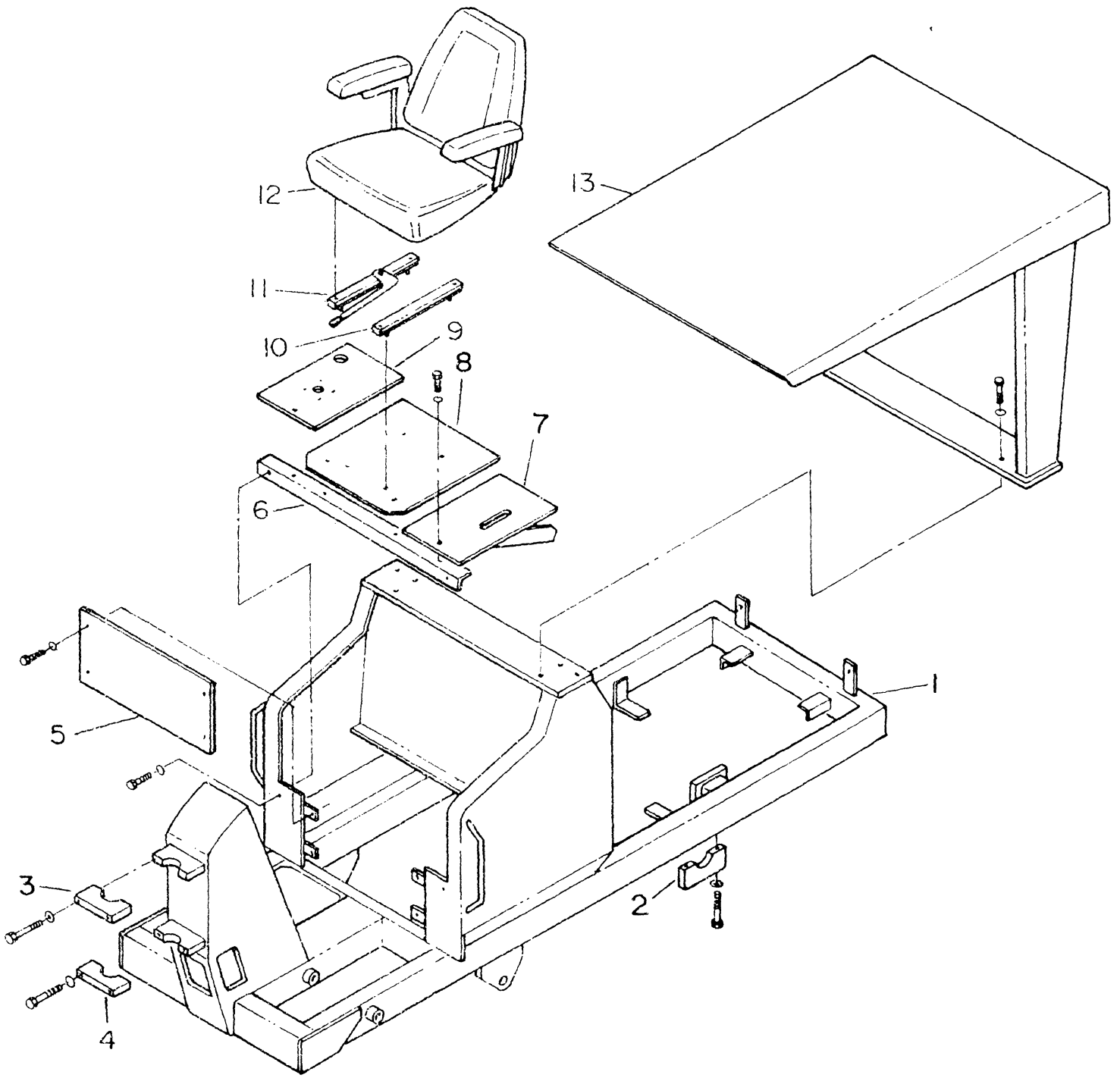
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	640164	Moldboard	1
2	640170	Cutting Edge	1
3	640180	Hyd. Cyl., Moldboard Angle	1
4	210060	Pin, Clevis	4
5	640204	Support, Moldboard	1
6	640210	Hyd. Cyl., Moldboard Tilt	1
7	640220	Hyd. Cyl., Moldboard Slide	1
8	220360	Bushing	4
9	640231	Pin, Moldboard Attaching	2
10	640243	Slide, Moldboard	1
11	640251	Shim	A/S
12	640260	Spacer	A/S
13	640271	Clamp, Moldboard To Slide	4
14	640051	Housing, Ball Swivel	1
15	640040	Ball, Draw-Bar Swivel	1
16	640150	Shim	A/S
17	640031	Housing, Ball Swivel	1
18	640284	Draw-Bar, Moldboard	1
19	640292	Stabilizer Bar	1
20	640301	Spacer	5
21	610040	Hyd. Cyl., Moldboard Lift	2
22	610311	Pin, Moldboard Tilt Cyl.	2
23	110130	Bushing	4
24	640320	Shim	A/R



**SCARIFIER & FRONT
BLADE ASSY.**



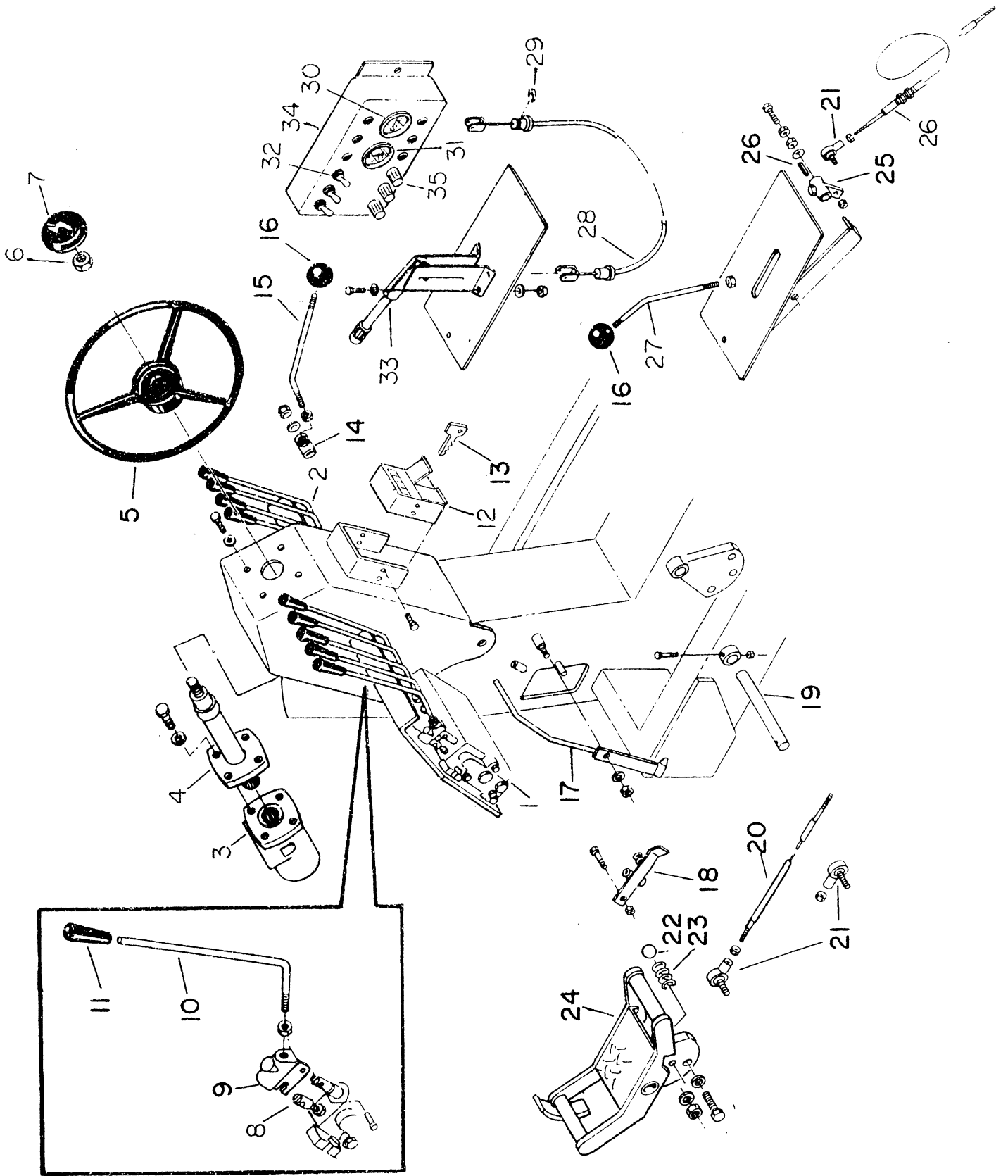
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	650113	Frame, Scarifier	1
2	650121	Support, Scarifier Tooth	4
3	650030	Tooth, Scarifier	4
4	650041	Locking Pin, Scarifier	4
5	260060	Hyd. Cyl., Scarifier Lift	1
6	650064	Frame Assy., Front Blade	1
7	650070	Cutting Edge, Front Blade	1
8	650080	Hyd. Cyl., Front Blade Lift	1
9	650091	Shaft, Front Blade Pivot	1
10	650101	Ring, Shaft Retainer	1



**REAR FRAME
& CANOPY**



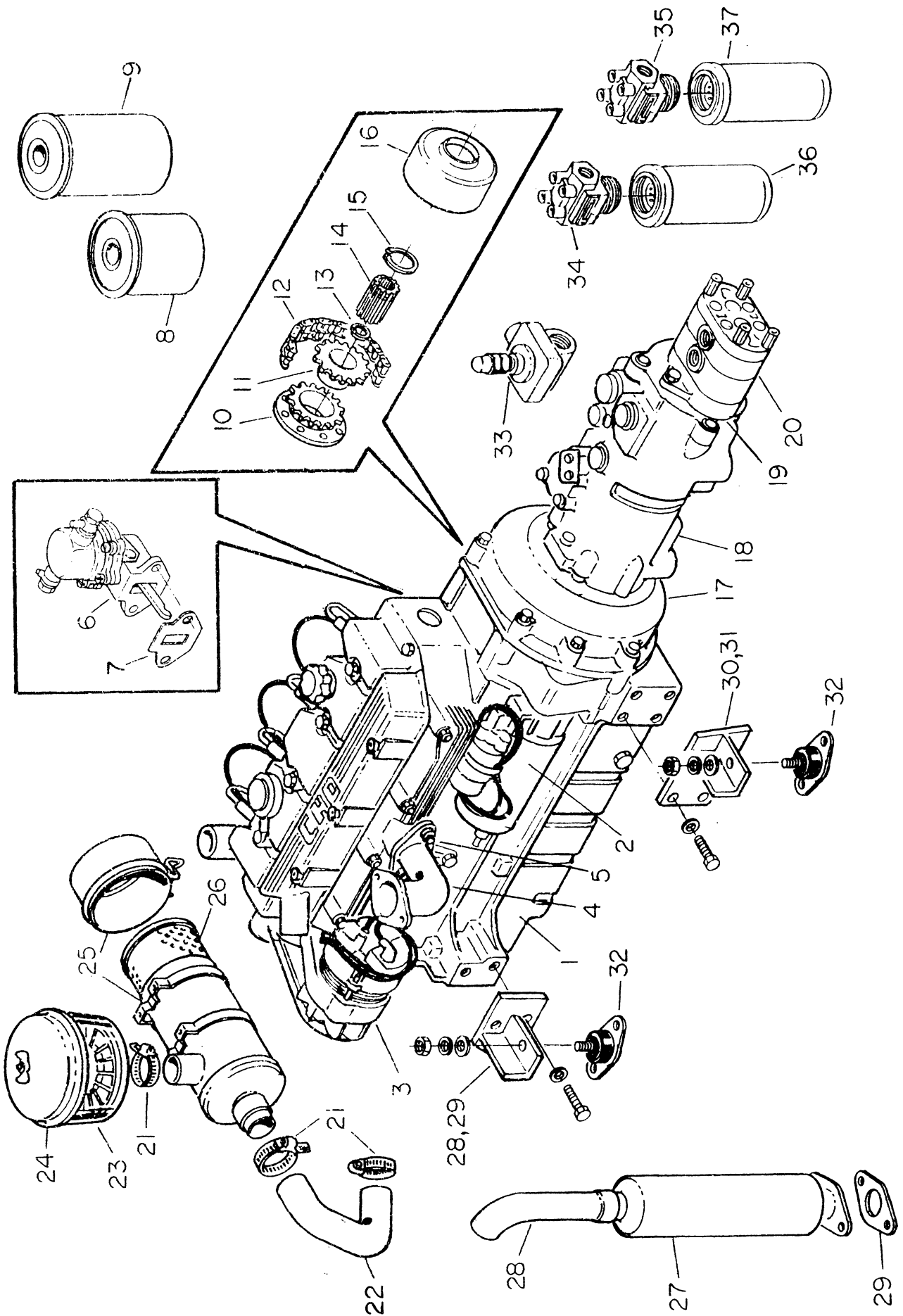
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	600114	Frame Assy., Rear	1
2	600121	Clamp, Rear Axle Housing	2
3	610021	Clamp, Articulation Joint Top	1
4	610022	Clamp, Articulation Joint Bottom	1
5	600131	Panel, Access	1
6	600141	Support Brace	1
7	600151	Panel, L.H.	1
8	600161	Panel, Seat Mount	1
9	600171	Panel, R.H.	1
10	600180	Slide Rail, Seat	1
11	600190	Slide Rail, Seat Adjusting	1
12	360010	Seat	1
13	600192	Canopy	1



CONTROL COMPONENT GROUP



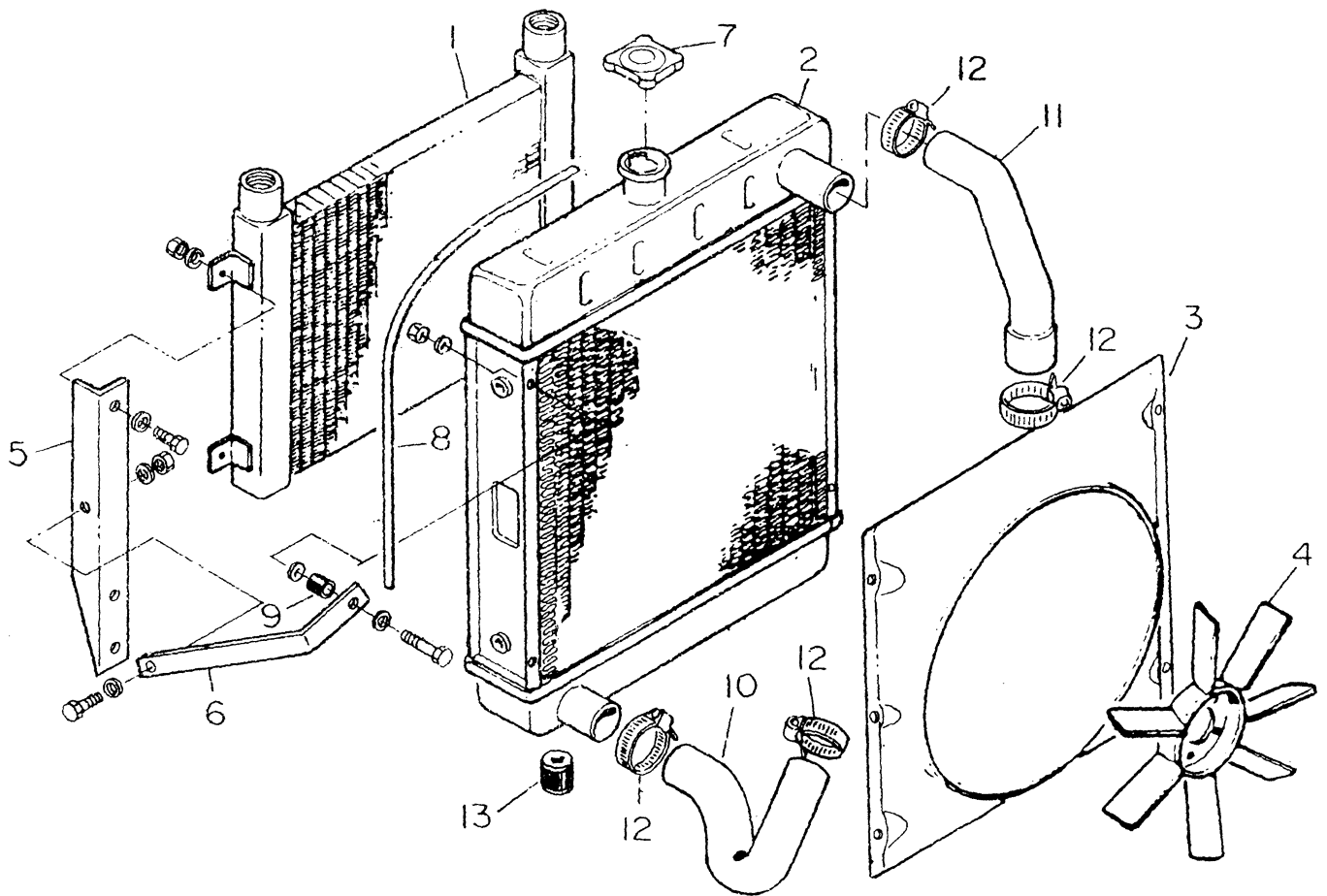
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	670200	Valve, Bank, L.H.	1
2	670210	Valve Bank, R.H.	1
3	700030	Hyd. Motor, Steering	1
4	700290	Column, Steering Wheel	1
5	300030	Steering Wheel	1
6	300020	Nut	1
7	300010	Horn Button	1
8	670220	Clevis, Valve Lever	8
9	670230	Mount, Valve Lever	8
10	670240	Lever, Valve	8
11	670250	Knob, Valve Lever	8
12	670260	Panel, Ignition (Lombardini Diesel)	1
13	670270	Key, Ignition (Lombardini Diesel)	1
14	670281	Mount, Console Tilt Lever	1
15	670291	Lever, Console Tilt	1
16	670300	Knob	1
17	670311	Lever, Neutral Safety	1
18	670321	Latch, Neutral Safety Lever	1
19	670331	Pin, Foot Pedal	1
20	670341	Rod, Fwd. & Rev.	1
21	670350	Spherical Rod End	2
22	670360	Ball Bearing, Detent	1
23	670370	Spring, Detent	1
24	670381	Foot Pedal, Fwd. & Rev.	1
25	670391	Bell Crank, Throttle Lever	1
26	670400	Cable, Throttle	1
27	670411	Lever, Throttle	1
28	670420	Cable, Parking Brake	1
29	670430	E-Clip	2
30	140210	Gauge, Fuel Level	1
31	500190	Hour-Meter	1
32	500040	Toggle Switch	3
33	670440	Lever, Parking Brake	1
34	670451	Panel	1
35	670460	Fuse Holder	3



ENGINE, COMPONENTS & FILTERS



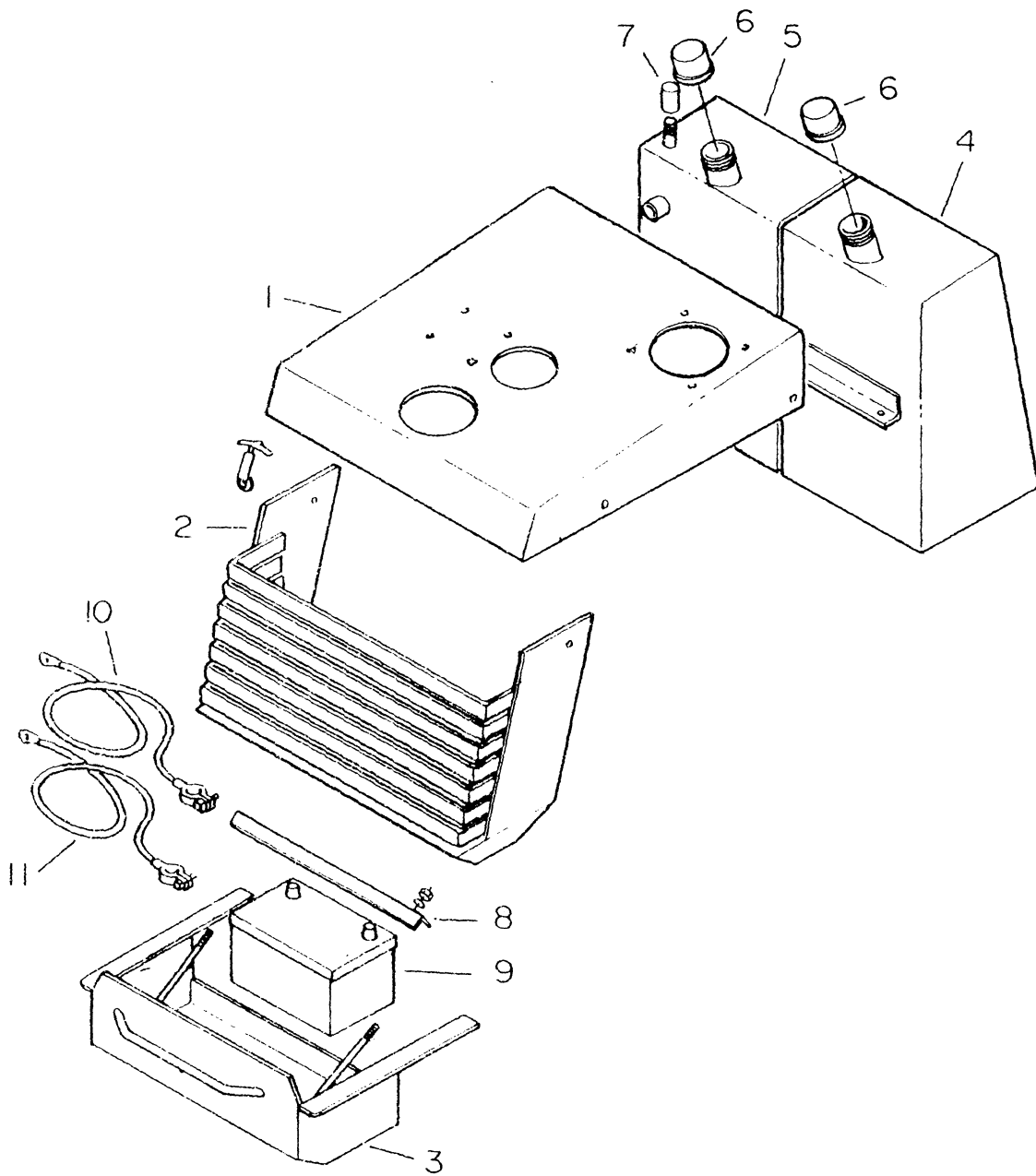
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	700300	Engine	1
2	700310	Starter Motor	1
3	700320	Alternator	1
4	700330	Elbow, Exhaust	1
5	700340	Gasket, Exhaust	1
6	700350	Fuel Pump	1
7	700360	Gasket	1
8	700370	Fuel Filter	1
9	700380	Oil Filter	1
10	700390	Coupling Half, Flywheel	1
11	700400	Coupling Half, Pump	1
12	700410	Chain, Coupling	1
13	700420	Snap Ring	1
14	700430	Splined Coupling, Pump Drive	1
15	700440	Snap Ring	1
16	700450	Cover, Drive Coupling	1
17	700460	Adaptor, Pump To Engine	1
18	700470	Hydro-Stat Trans. Assy.	1
19	700480	Gasket, Pump Mounting	1
20	700490	Tandem Pump	1
21	700500	Clamp	3
22	700510	Hose, Air Filter To Engine	1
23	310020	Dust Bowl, Pre-Cleaner	1
24	310010	Cover, Dust Bowl	1
25	500260	Air Filter Assy.	1
26	700520	Air Filter Element	1
27	700530	Muffler	1
28	700541	Mount, L.H. Front	1
29	700551	Mount, R.H. Front	1
30	700561	Mount, L.H. Rear	1
31	700571	Mount, R.H. Rear	1
32	700580	Isolator Pad, Engine Mount	4
33	700590	Relief Valve, Power Steering	1
34	500100	Filter Head, Suction	1
35	290010	Filter Head, Charge Return	1
36	500110	Hyd. Filter, Suction	1
37	290030	Hyd. Filter, Charge Return	1



**RADIATOR, OIL COOLER
& COMPONENTS**



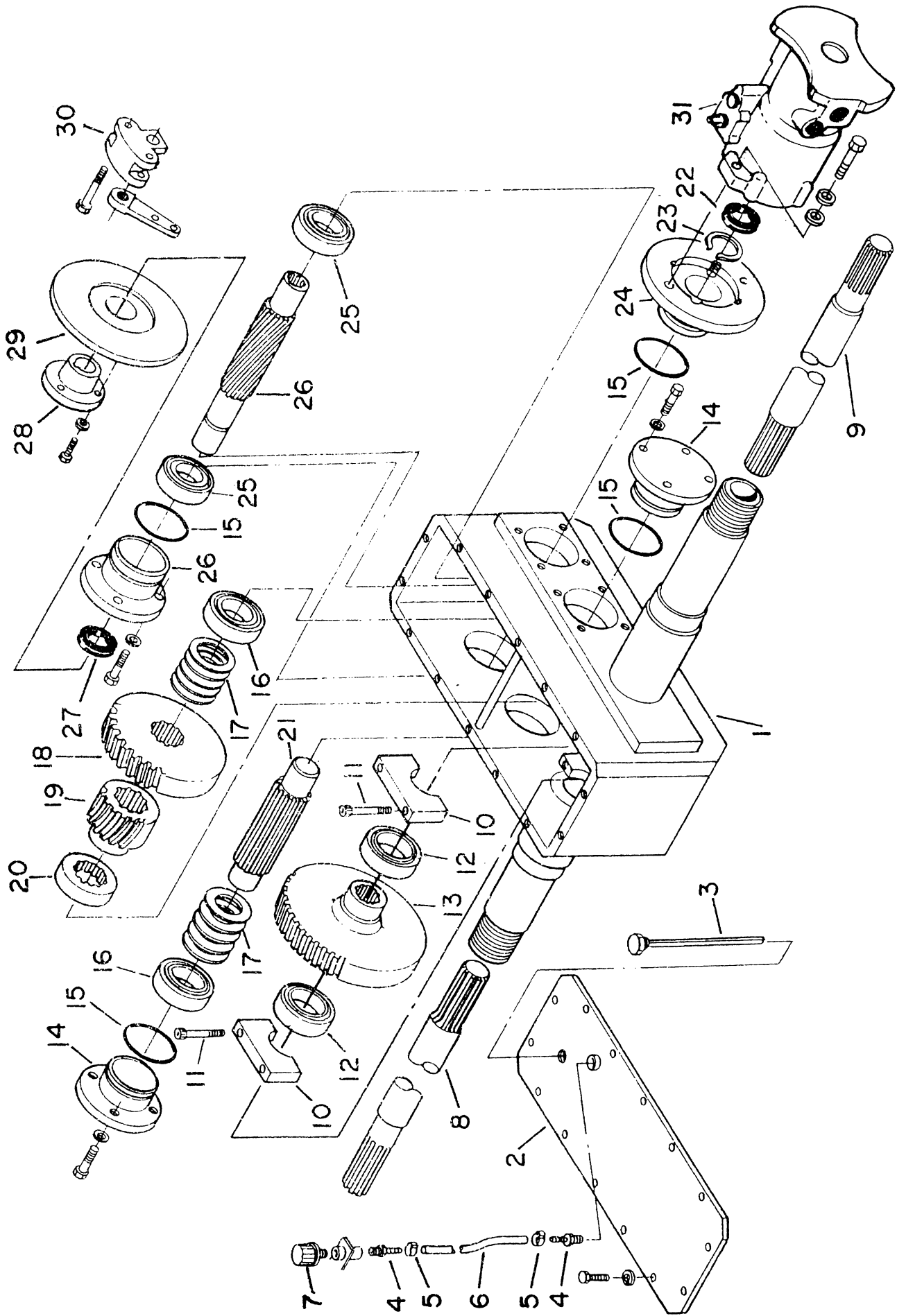
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	700090	Radiator, Hyd. Oil	1
2	710110	Radiator, Engine	1
3	710120	Shroud, Fan	1
4	710130	Fan	1
5	710141	Mounting Bracket, Hyd. Oil Cooler	2
6	710151	Bracket, Radiator Support	1
7	710160	Cap, Radiator	1
8	710170	Hose, Over Flow	1
9	710180	Rubber Mount	2
10	710190	Hose, Lower	1
11	710200	Hose, Upper	1
12	710210	Clamp, Hose	4
13	710220	Rubber, Mount	2



**HOOD, GRILLE, TANKS
& BATTERY BOX**



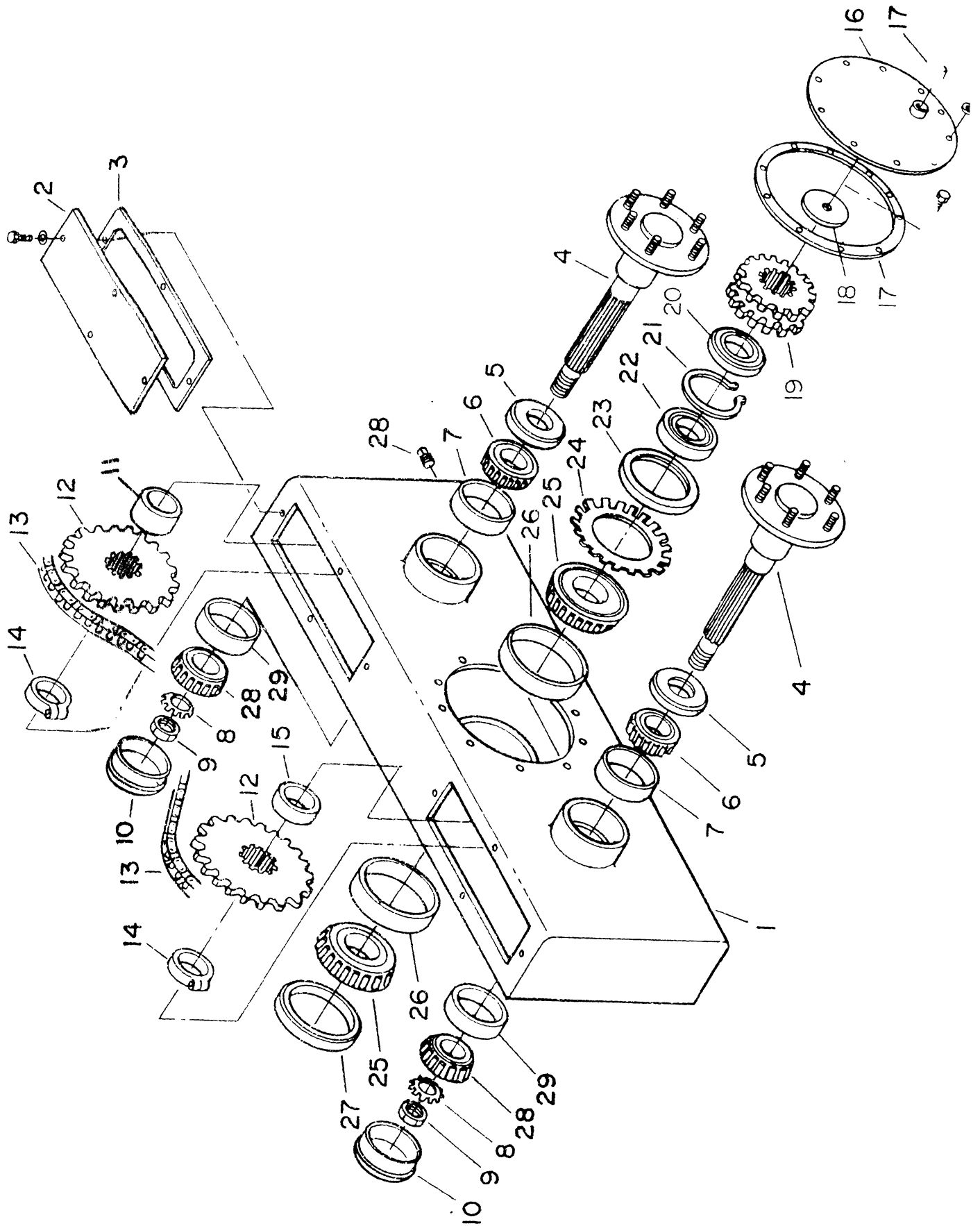
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	720072	Hood	1
2	720082	Grille	1
3	720092	Box, Battery	1
4	720102	Tank, Diesel Fuel	1
5	720112	Tank, Hyd. Oil	1
6	410080	Cap	2
7	720121	Dip Stick, Hyd. Oil Level	1
8	720131	Bracket, Battery Hold Down	1
9	720140	Battery, 12 Volt	1
10	720150	Cable, Battery Positive	1
11	720160	Cable, Battery Negative	1



GEAR REDUCTION BOX



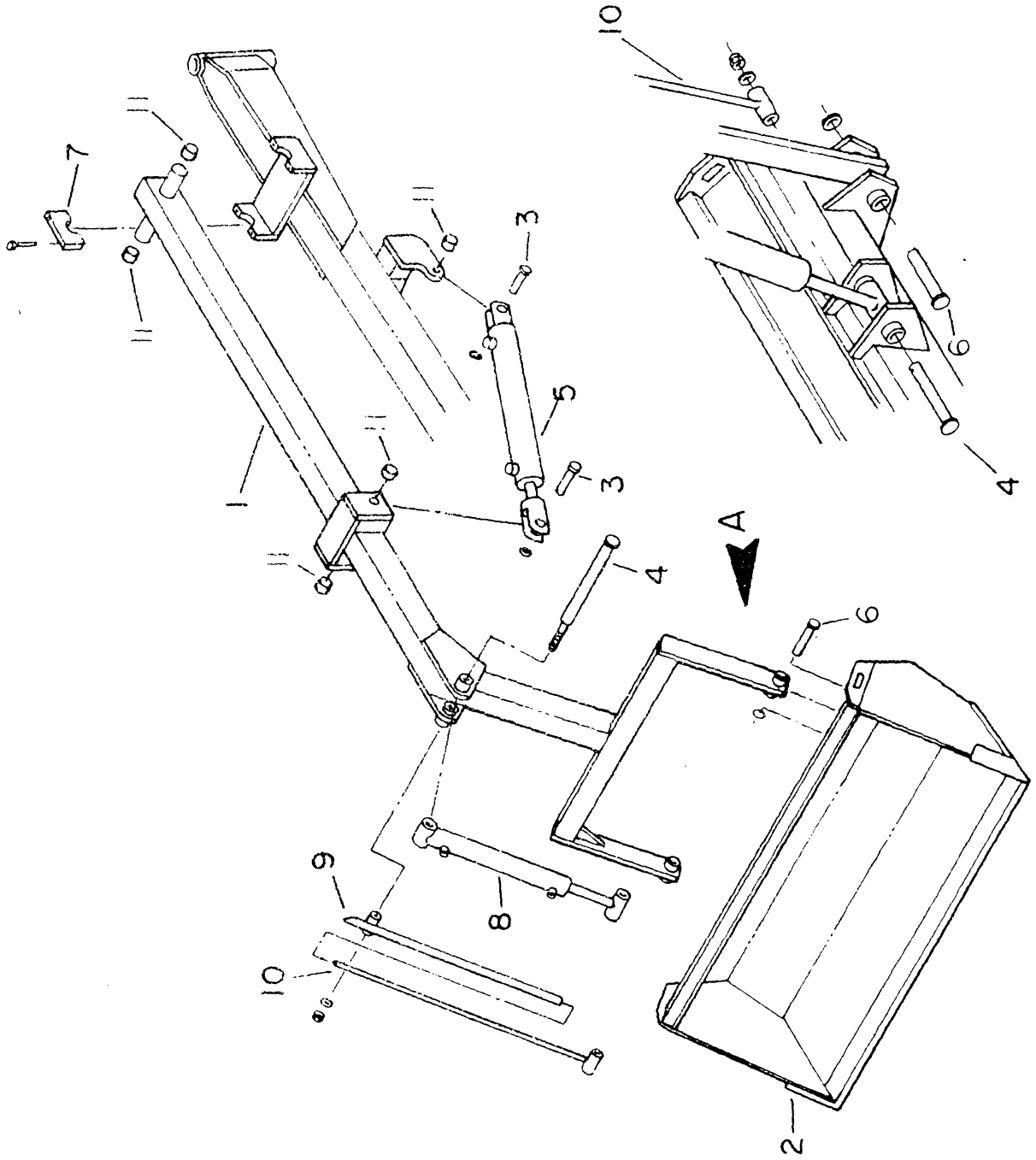
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	740010	Housing, Gear Box	1
2	740020	Cover, Gear Box	1
3	740030	Dip Stick, Lube Oil	1
4	740040	Adaptor, Hose To Pipe	2
5	740050	Clamp, Hose	2
6	740060	Hose	1
7	620050	Breather Cap	1
8	740070	Axle, L.H.	1
9	740080	Axle, R.H.	1
10	740050	Clamp, Axle Bearing	2
11	740100	Boit	4
12	740110	Bearing, Bull Gear	2
13	740120	Bull Gear, Out Put	1
14	740130	Cap, Bearing Support	2
15	740140	O-Ring	3
16	740150	Bearing, Middle Shaft	2
17	740160	Shim	A/S
18	740170	Gear, Secondary Driven	1
19	740180	Gear, Secondary Drive	1
20	740190	Spacer	1
21	740200	Shaft, Secondary	1
22	740210	Seal, Input Shaft, R.H.	1
23	740220	Snap-Ring	1
24	740230	Flange & Cap, Motor Mount	1
25	740240	Bearing, Input Shaft	2
26	740250	Shaft. Input	1
27	740260	Seal, Input Shaft, L.H.	1
28	610150	Bushing, Taper Lock	1
29	740271	Rotor, Brake	1
30	312110	Caliper, Brake	1
31	740280	Hyd. Motor, Drive	1



CHAIN BOX ASSY.



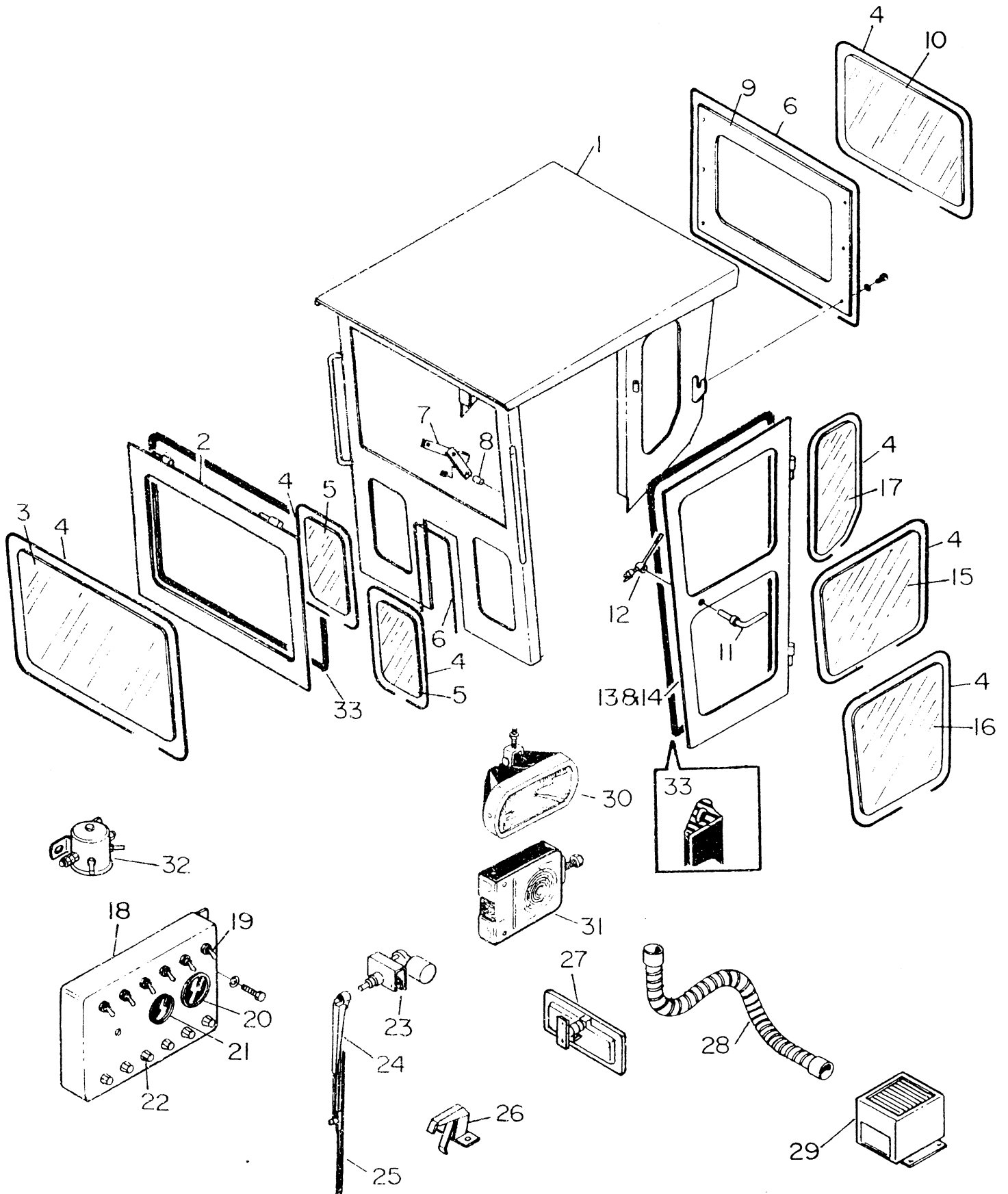
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	620000	Housing, Chain Drive	2
2	620031	Cover, Access	4
3	620040	Gasket, Access Cover	4
4	620061	Axle, Rear Wheel	4
5	620070	Seal	4
6	620080	Bearing Cone, Outer	4
7	620090	Bearing Cup, Outer	4
8	620180	Lock Washer	4
9	620190	Lock Nut	4
10	620200	Cap, Axle End	4
11	620111	Spacer	2
12	620140	Sprocket, Tandem Axle	4
13	620130	Roller Chain, Tandem Drive	4
14	620400	Locking Collar	4
15	620150	Spacer	2
16	120191	Cover, Access	2
17	120200	Gasket, Access Cover	2
18	620410	Washer	2
19	620420	Sprocket, Drive Axle	2
20	620430	Seal, Drive Axle	2
21	620440	Snap Ring	2
22	620450	Bearing	2
23	620460	Lock Nut	2
24	620470	Lock Washer	2
25	620480	Bearing Cone, Chain Box Trunnion	4
26	620490	Bearing Cup, Chain Box Trunnion	4
27	620500	Seal, Chain Box Trunnion	2
28	620170	Bearing Cone, Inner	4
29	620160	Bearing Cup, Inner	4



VIEW IN DIRECTION OF ARROW 'A'

BUCKET LOADER ASSY.

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	730014	Boom	1
2	730024	Bucket	1
3	210060	Pin, Clevis	2
4	730031	Pin, Cyl. Mounting	2
5	730040	Hyd. Cyl., Boom Lift	2
6	730051	Pin, Bucket Mounting	2
7	730061	Clamp, Boom Mounting	2
8	730070	Hyd. Cyl., Bucket Tilt	1
9	730081	Tube, Bucket Angle	1
10	730091	Rod, Bucket Angle	1
11	220360	Bushing	6



CAB ASSY.**LeeBoy**

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	720000	Cab Assy.	1
2	720072	Frame, Front Windshield	1
3	720080	Glass, Front Windshield	1
4	151040	Seal, Glass To Frame	1
5	720090	Glass, Lower Front Panel	1
6	720100	Seal, Cab To Console	1
7	720111	Hinge Assy., Front Windshield	1
8	720121	Spacer	2
9	720131	Frame, Rear Windshield	1
10	720140	Glass, Rear Windshield	1
11	720151	Door Handle, Outside	2
12	720161	Door Handle, Inside	2
13	720173	Door Frame, L.H.	1
14	720183	Door Frame, R.H.	1
15	720190	Glass, Door Upper	1
16	720200	Glass, Door Lower	1
17	720210	Glass, Cab Side	1
18	670451	Panel, Instrument	1
19	500040	Toggle Switch	3
20	140210	Gauge, Fuel Level	1
21	500190	Hour-Meter	1
22	670460	Fuse Holder	3
23	720220	Motor, Windshield Wiper	1
24	720230	Arm, Windshield Wiper	1
25	720240	Blade, Windshield Wiper	1
26	720250	Latch, Window	1
27	720260	Mirror, Rearview	1
28	720270	Hose, Defroster	1
29	720280	Heater, Cab	1
30	160040	Lamp, Head Light	2
31	160030	Lamp, Tail Light	2
32	720290	Relay, Electrical	
33	720300	Seal, Door and Front Window Frame	

