

MAXI-SWEEP



6600

The leader in self-propelled sweeper productivity.

MAXI-SWEEP IS

A fourth generation sweeper with a host

Maxi-Sweep is the most advanced sweeper available. Start with the *hydrostatic drive train*. You can select an infinite number of operating speeds, up to maximum setting... in forward or reverse, matching vehicle speed to working conditions of all types. The hydrostatic transmission features a totally sealed, self-lubricating system. You can match the engine power to a wide range of load conditions. For optimum performance . . . Maxi-Sweep's power drives through a rigid semi-float axle. Power? Maxi-Sweep relies on a *76 HP liquid cooled diesel engine*, dependable throughout, from the dual element air cleaner, pre-cleaner and service indicator to the 12 volt starting system.

Sweeping performance? Operator-variable hydraulic broom counterbalance maintains optimum sweeping pressure, adapting to variations in the road surface.

Maxi-Sweep has a sturdy, welded, *formed channel frame* (gusseted at all stress points) and features an oscillating front and solid rear axle. The rear-mounted engine is fully accessible for service and with the engine behind the operator, visibility is virtually unrestricted.

Maxi-Sweep features a convenient *master-clutch* for smooth acceleration to a pre-selected speed setting (controlled by the transmission stroke lever), also allows coasting to a complete stop while maintaining the pre-set speed command, and inching of the vehicle in tight spaces.

Operator controls are precise and unlike many sweepers, features are built into every control for a more efficient, productive and safe operation.

The hydraulic broom is driven by a single, high-torque direct drive motor, located inside the broom core. Replacement of broom wafers is fast and simple. The operator hydraulically controls broom angle up to 45°, left or right. For dependability, the broom arm is mounted in large, sealed, tapered bearings and the broom cover is a full 160° wrap-around design with protective end plates.

Hydraulic steering and braking are standard equipment on Maxi-Sweep for optimum machine operator control. Brakes are four wheel featuring a dual-master cylinder, with a manually activated parking brake.

Controls are conveniently located within the driver's reach. Fingertip control of the throttle, transmission, hydraulic counterbalance, lift, swing and broom rotation.

Maxi-Sweep features an exclusive hydraulic broom counterbalance that maintains a pre-set pressure on the broom for the most efficient sweeping pattern (while minimizing broom wear). The system is self-adjusting but operator variable.

Protective enclosures: Maxi-Sweep offers them all. ROPS (roll-over protective structure) with canopy frontal wind screen or with the full cab enclosure. If you choose the latter, complete climate control is available. All versions of ROPS, cab and climate control products can be field retro-fitted.

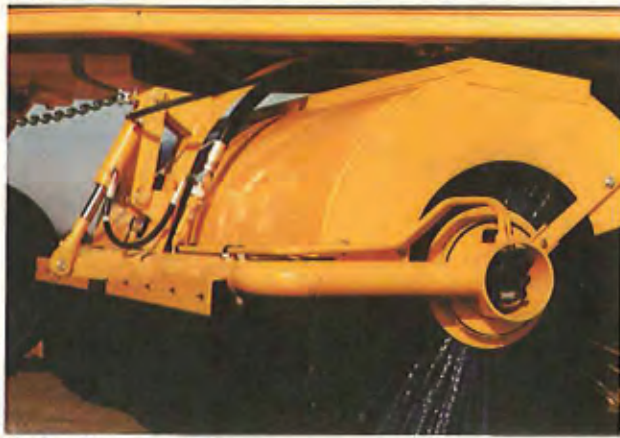


WAY OUT FRONT

of features that leaves others in the dust.



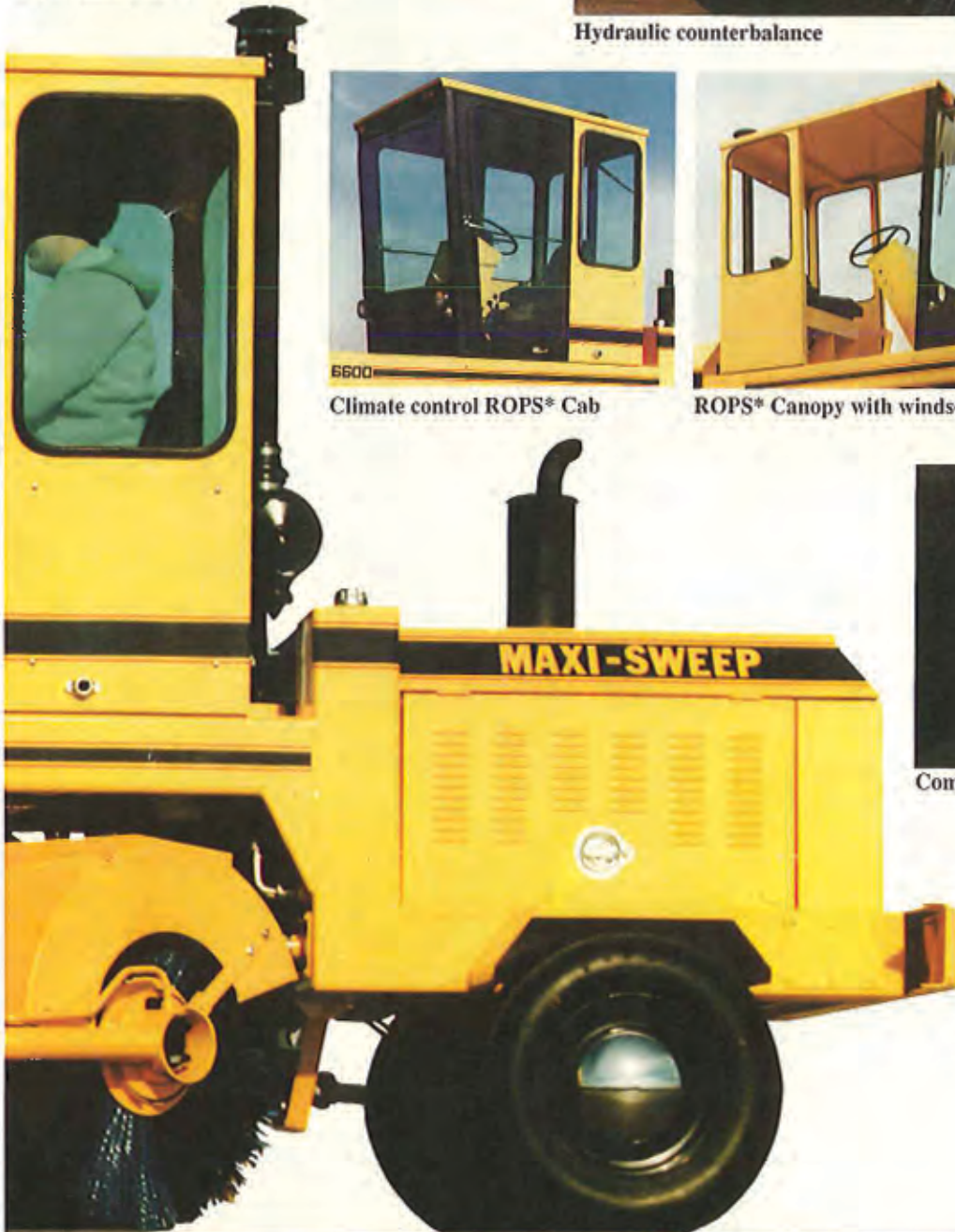
Hydrostatic drive



Hydraulic counterbalance



Operator controls



6600
Climate control ROPS* Cab



ROPS* Canopy with windscreen



ROPS* Canopy



Combination air conditioner/heater

* ROPS-Roll-over protective structure



MAXI-SWEEP



S P E C I F I C A T I O N S

Dimensions

- Length with bumpers 15' - 2"
- Length without bumpers 14' - 4"
- Height with pre-cleaner 10' - 0"
- Height without pre-cleaner (shipping) 8' - 11"
- Turning radius 15' - 3" (inside radius)
- Outside tire-to-tire width 5' - 7"

Weight

- Machine with ROPS canopy 5,175 lbs.
- Machine with ROPS cab 5,450 lbs.

Chassis

All welded, formed 1/4" thick, 7" channels, integral 1/4" thick hydraulic reservoir, gussets at all stress points, rear engine, oscillating front axle, rigid semi-float rear axle.

Engine

Diesel - Cummins 4B 3.9, 76 HP, water cooled, 32 gallon fuel capacity, located forward.

Air cleaner

Heavy-duty dual element with pre-cleaner.

Transmission

Heavy-duty hydrostatic, infinitely variable 0-25 MPH, replaceable 10 micron spin-on oil filter, 30% gradability.

Hydraulic System

Live engine-driven 28 GPM pump with 5 GPM steering priority, 30 gallon hydraulic system capacity, 25 gallon reservoir, high capacity oil cooler, 100 mesh suction filter, 10 micron replaceable element return filter. Integrated circuit for broom rotation, angle, lift and broom counterbalance.

Steering

Priority hydraulic power steering.

Brakes

4-wheel hydraulic with dual master cylinder. Front disc and rear drum with mechanical park brake.

Tires and Wheels

P-225-15 mounted on 5 bolt wheels

Controls

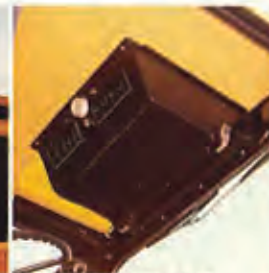
Engine throttle, hydrostatic control with master clutch, broom drive, left and right angling, broom lift and float with exclusive hydraulic counterbalance.

Broom

Direct, hydraulic drive enclosed in broom core; 16 ga. steel, 160° broom cover with end plates, full 45° power angling left or right, swing frame mounted on large sealed tapered bearings; core assembly is all steel, 8' long with 7' - 6" sweeping surface.



Optional engine compartment doors.



Optional pressurizing blower.



Operator gauge option

OPTIONAL EQUIPMENT

Comfort Options

- Cab (ROPS) enclosure, right and left full view doors with locks, tempered safety glass
- Pressurizing blower, 100% filtered pressurization, three speed fan, domelight
- Air conditioner with heater, 27,000 BTU/hr. cooling capacity, 39,000 BTU/hr. heating capacity, 340 CFM three speed fan
- Heater, 13,500 BTU/hr. heating capacity, 180 CFM fan, two speed
- Defroster recirculating fan, 300 CFM two speed fan, pedestal mount switch
- Sound control interior

Safety Options

- Front windscreen, tempered safety glass
- Wiper, front
- Wiper, rear
- Rotating beacon
- Reverse signal alarm
- Traffic Horn
- Light group, head and tail lights (including class A turn signal)

Engine Accessory Options

- Turbine pre-cleaner
- Engine compartment doors (lockable)
- Gauge package includes: tachometer, hour meter, volt meter, oil pressure, water temperature
- Ether cold start system (recommended below 30° F)

Machine Options

- Water System
- Front and rear bumpers
- Spare tire and wheel
- All poly brush
- 1/2 poly - 1/2 wire brush
- All wire brush

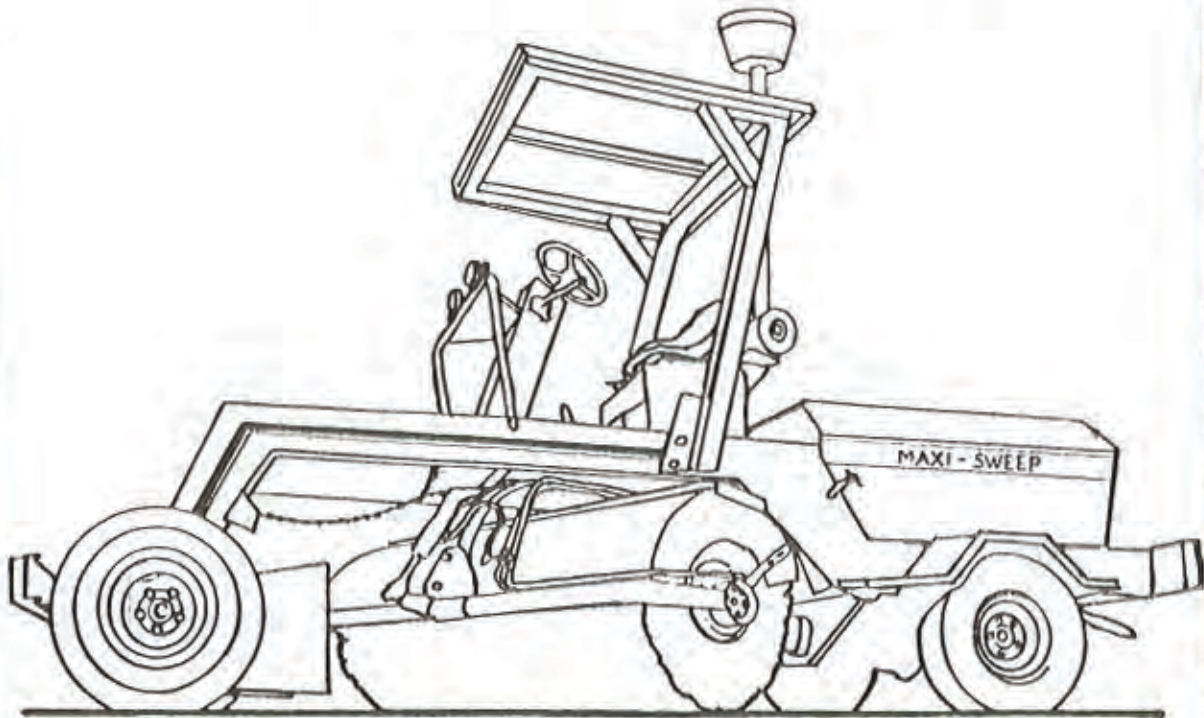


P.O. Box 546 • Holdrege, Nebraska 68949 USA
308-995-4495
1-800-247-6167, Ext. 645
FAX 308-995-5887

DEALER

Asphalt Equipment & Supply
P. O. Box 4845
Pocatello, ID. 83201
(208) 232-3976

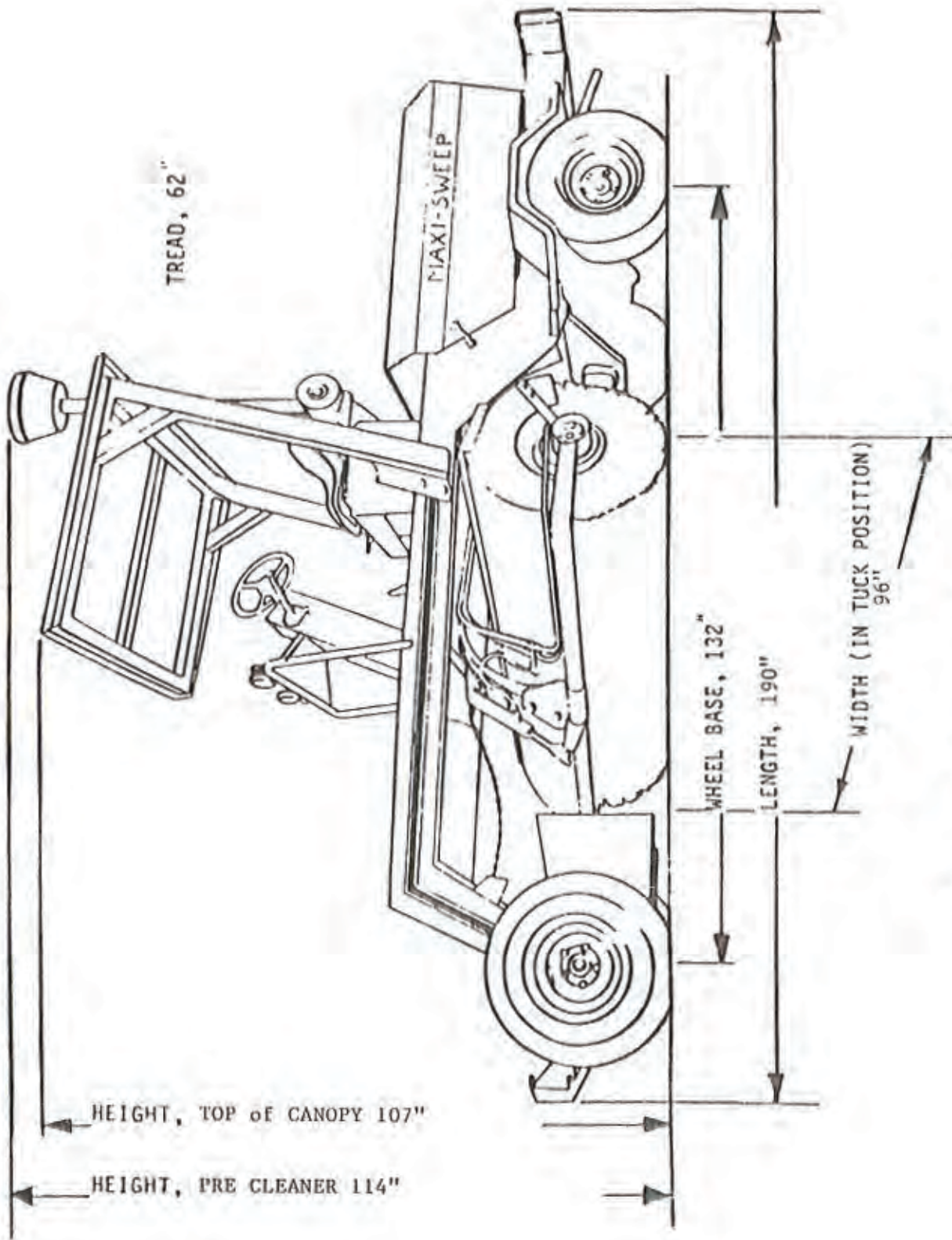
MAXI-Sweep



ab Allmand Bros. Inc.

P.O. Box 546 • Holdrege, Nebraska 68949 USA

1-800-445-2015 • 308-995-4495 (NE Only)

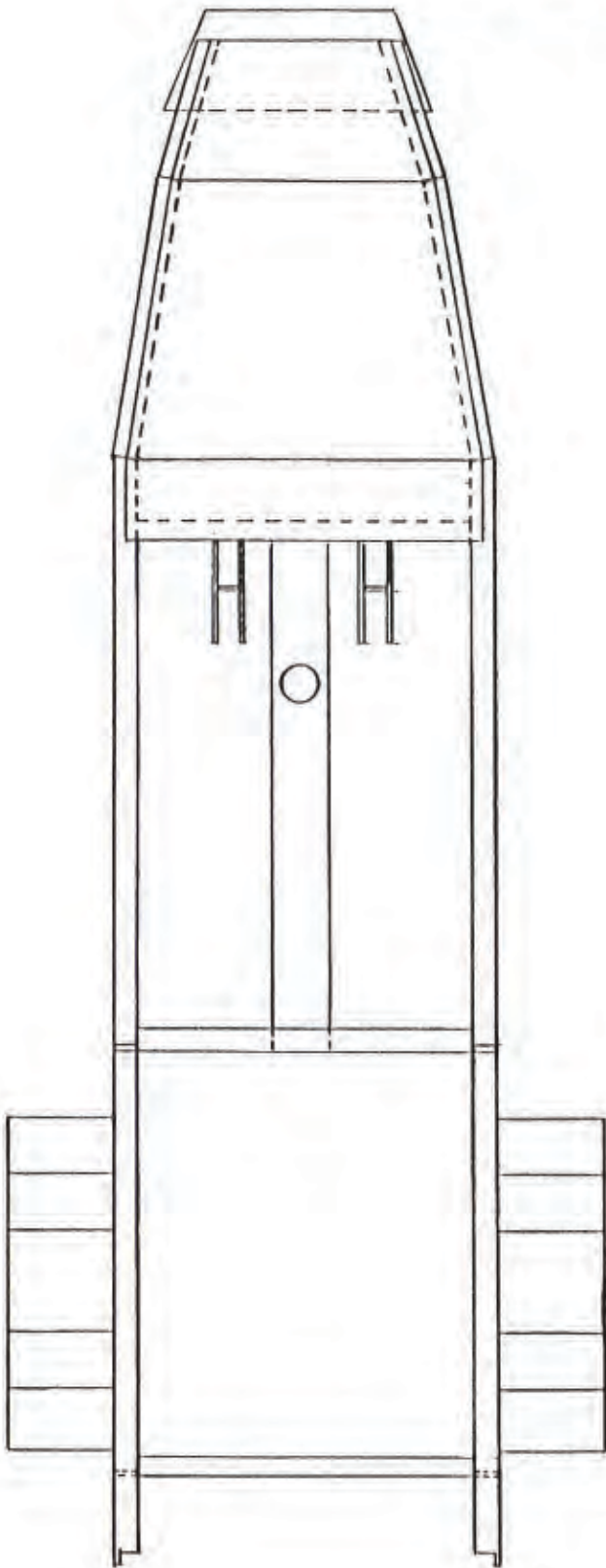


OVER-ALL DIMENSIONS

**PARTS MANUAL INDEX
MODEL 6330 MAXI-SWEEP**

	PAGE
Main Frame.....	2
Engine Assembly For Cummins/2.....	4
Air Cleaner And Exhaust Group For Cummins/2.....	8
Fuel Tank Assembly.....	10
Hydraulic System.....	12
Valve Block Assembly.....	18
Hydraulic Oil Tank Assembly.....	20
Front And Rear End Assembly.....	22
Brake Assembly.....	26
Front Brake Assembly.....	30
Rear Axle Shaft, Brake, Bearings And Seals.....	32
Master Clutch/Engine Throttle For Cummins/2.....	34
Broom Swing Frame Assembly.....	38
Broom Arm Assembly.....	40
Brush Assembly.....	42
Blast Shield Assembly.....	44
Seat/Console/Light Bar And Miscellaneous Parts.....	46
Canopy Assembly.....	48
Cowling Assembly.....	50
Bumpers/Front And Rear.....	52
Electrical Assembly/Indicator Lights.....	54
Electrical Assembly/Gauges.....	56
Electrical Assembly/Cluster.....	58
Decals.....	60
Broom Counterbalance.....	61
Hydraulic Schematic.....	62
Hydraulic System Description.....	63

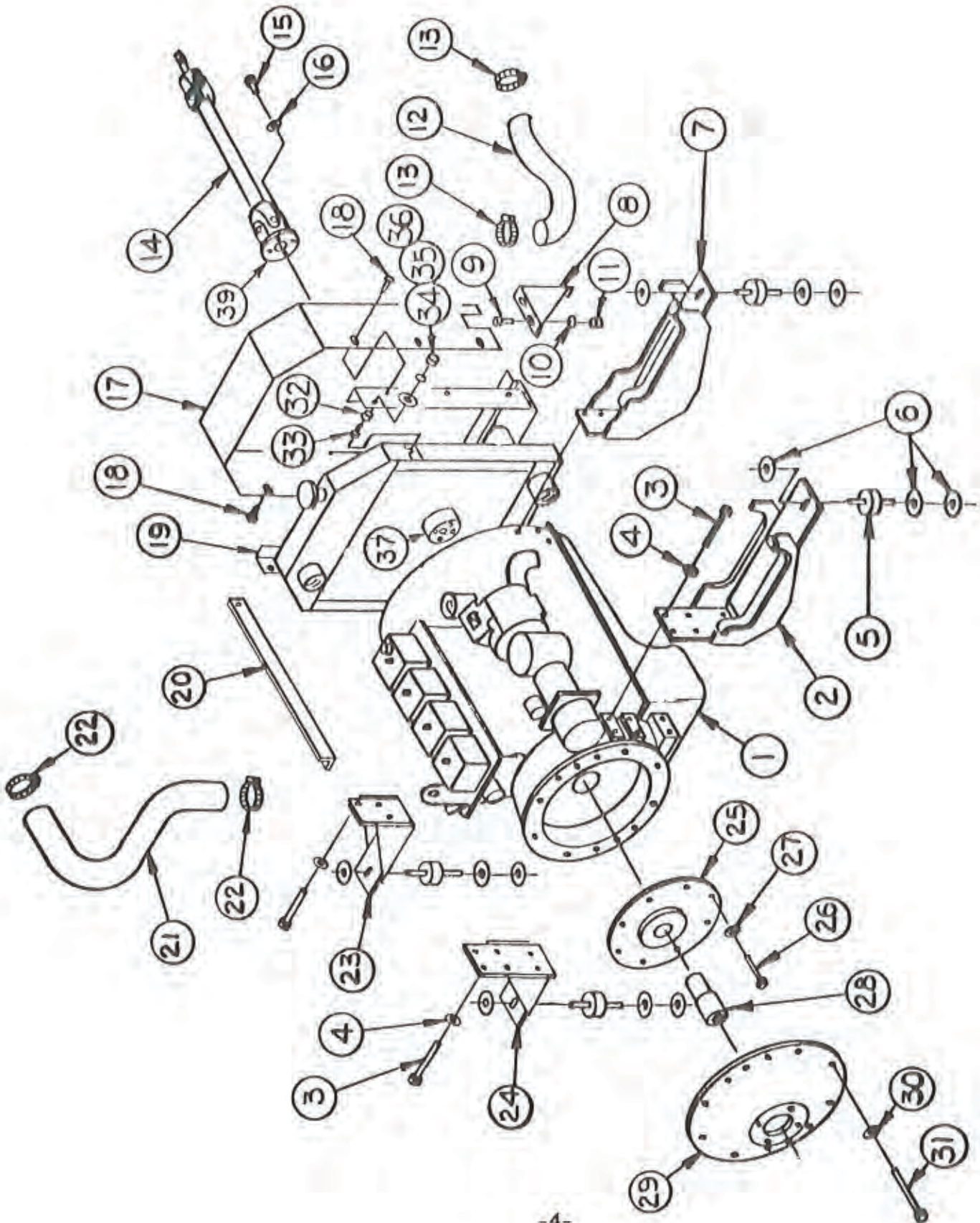
MAIN FRAME



MAIN FRAME

<u>REF.</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433054	1	Main Frame

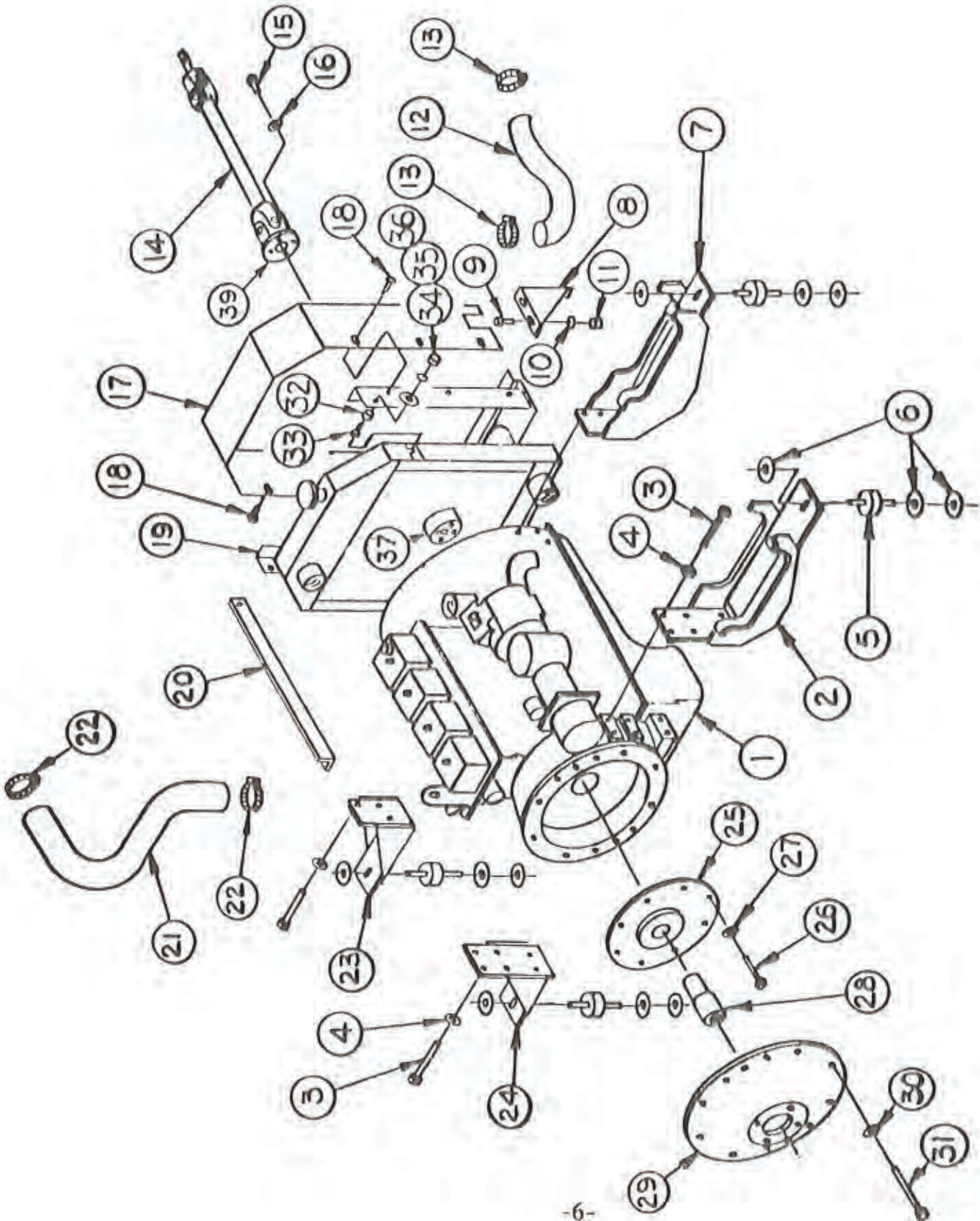
ENGINE ASSEMBLY for CUMMINS / 2



**ENGINE ASSEMBLY
FOR CUMMINS/2**

<u>REF.</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433749	1	Engine Cummins 4B 3.9
2	433763	1	Engine Mount, L. H. - Front
3		18	Capscrews, 12MM x 40MM x 1.5 Thd.
4		18	Lockwasher, 12MM
5	433059	4	Cushion, Engine Mount
6		12	Flatwasher, 3/8"
7	433765	1	Engine Mount, L.H. - Rear
8	433423	2	Gusset, Radiator
9		6	Capscrew, 5/16"NC x 1"
10		6	Lockwasher, 5/16"
11		6	Hex Nut, 5/16"NC
12	433768	1	Hose, Radiator/Lower
13	433277	2	Hose Clamp
14	433769	1	Drive Shaft, Rear Pump
15		4	Capscrew, 7/16"NC x 1"
16		4	Lockwasher, 7/16"
17	433762	1	Shroud, Radiator
18		6	Self-Tapping Screw, 1/4" x 3/4"
19	433827	1	Mount, Radiator
20	433896	1	Brace, Radiator
21	433767	1	Hose, Radiator/Top
22	433277	2	Hose Clamp
23	433766	1	Engine Mount, R.H. - Rear
24	433764	1	Engine Mount, R.H. - Front
25	433829	1	Drive Plate (Ref. Only)
26		8	Capscrew
27		8	Lockwasher
28	433830	1	Direct Drive Shaft (Ref Only)
29	433831	1	Bell Housing (Ref Only)
30		12	Capscrew, 10MM x 40MM
31		12	Lockwasher, 10MM
32	433737	2	Spacer, Radiator
33		2	Carriage Bolt
34		2	Flatwasher

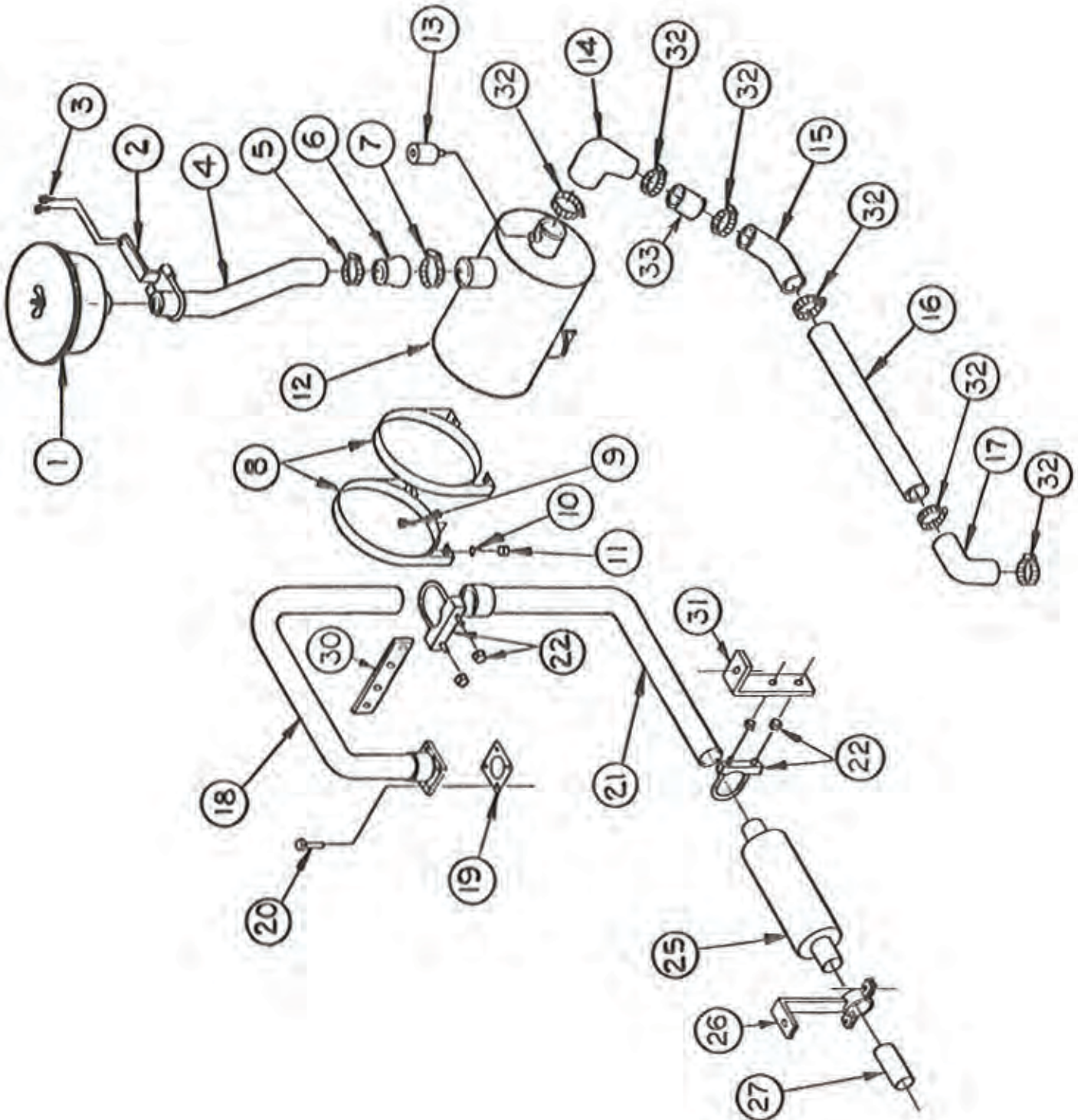
ENGINE ASSEMBLY for CUMMINS / 2



**ENGINE ASSEMBLY
FOR CUMMINS/2**

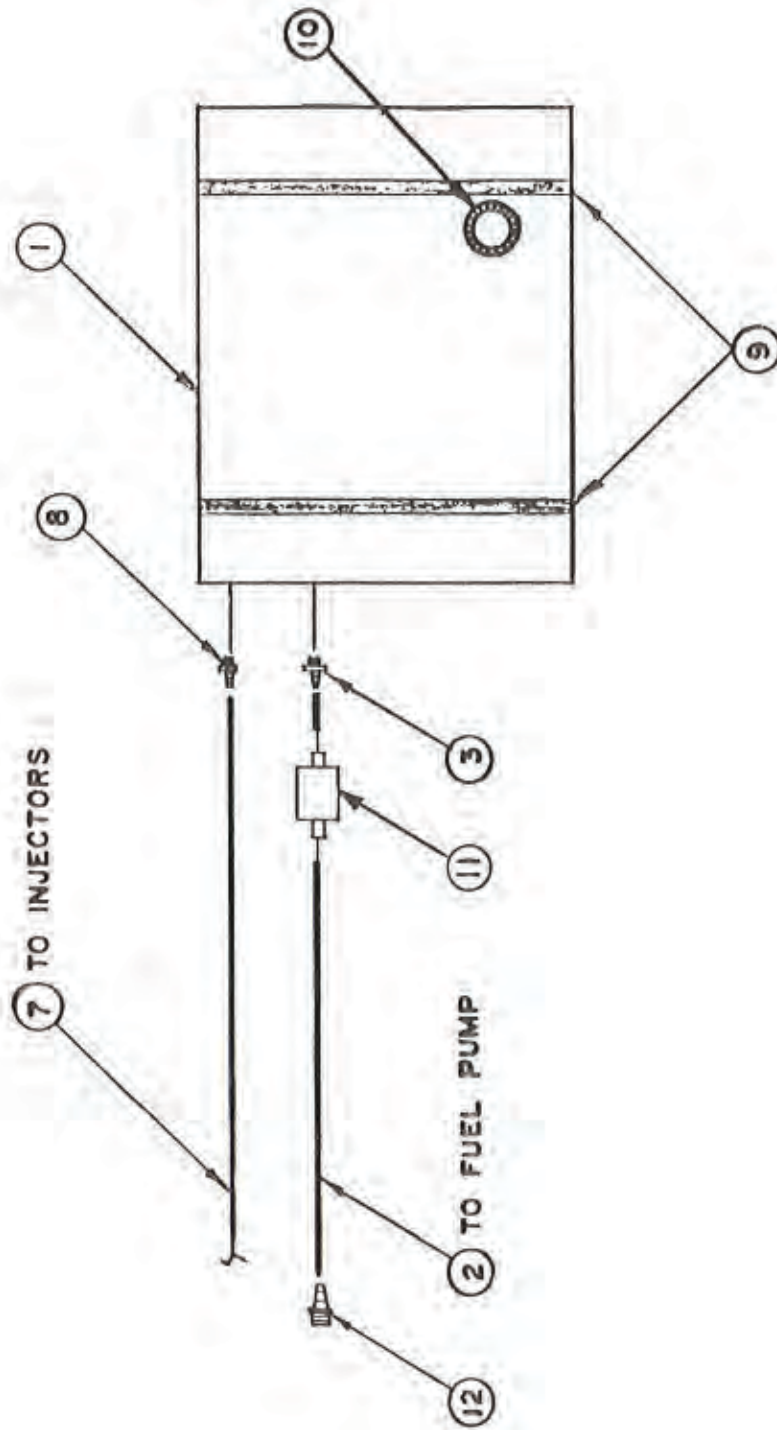
<u>REF.</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
35		2	Lockwasher
36		2	Hex Nut
37	433903	1	Fan Spacer Cummins/2
38	433901	1	Engine Fan Cummins/2 (not pictured)
39	433769-1	1	Flange Yoke

AIR CLEANER AND EXHAUST GROUP for CUMMINS / 2



AIR CLEANER AND EXHAUST GROUP FOR CUMMINS/2

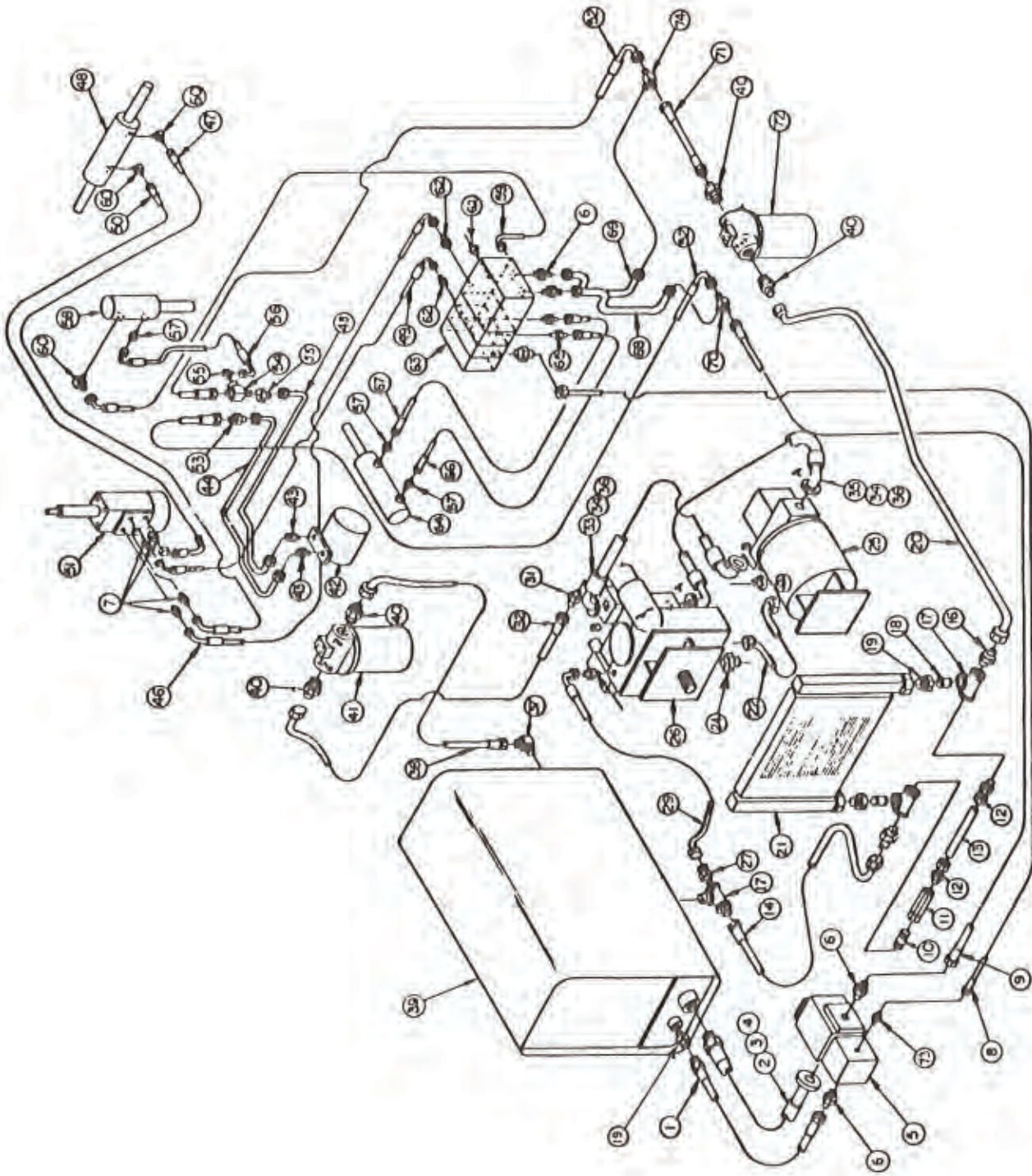
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433433	1	Pre-Cleaner
2	433561	2	Brace, Air Cleaner Stack
3		2	Self-Threading Screw
4	433754	1	Stack, Air Cleaner
5	433408	1	Hose Clamp
6	433755	1	Transition 3-1/2 to 3"
7	433408	1	Hose Clamp
8	433281	2	Mounting Bands
9		4	Capscrew 1/4"NC 3/4"
10		4	Lockwashers 1/4"
11		4	Hex Nut 1/4"NC
12	433279	1	Air Cleaner W/Vacuator Valve
	433482	1	Safety Element (Rep. Part only for #633279)
	433481	1	Main Element (Rep. Part only for #633279)
	433483	1	Vacuator Valve (Rep. Part only for #633279)
13	433500	1	Service Indicator
14	433820	1	Rubber Elbow 90° 3 1/2" to 3"
15	433821	1	Rubber Elbow 45°
16	433756	1	Air Intake Pipe 3" x 18"
17	433822	1	Rubber Elbow 90°
18	433757	1	Exhaust Pipe W/Flange 2-1/2" x 48"
19	433746	1	Gasket, Exhaust Pipe
20		4	Capscrew
21	433758	1	Exhaust Pipe 2-1/2" x 46"
22	433823	2	Muffler Clamp 2-1/2"
25	433908	1	Muffler
26	433909	1	Tail Pipe Hanger
27	433907	1	Tail Pipe 2" O.D. x 6"
30	433847	1	Bkt. Exhaust Pipe
31	433848	1	Exhaust Bkt. Lower
32	433902	6	Heavy Duty Hose Clamp
33	433906	1	Air Intake Pipe 3" x 3"



FUEL TANK ASSY.

FUEL TANK ASSY

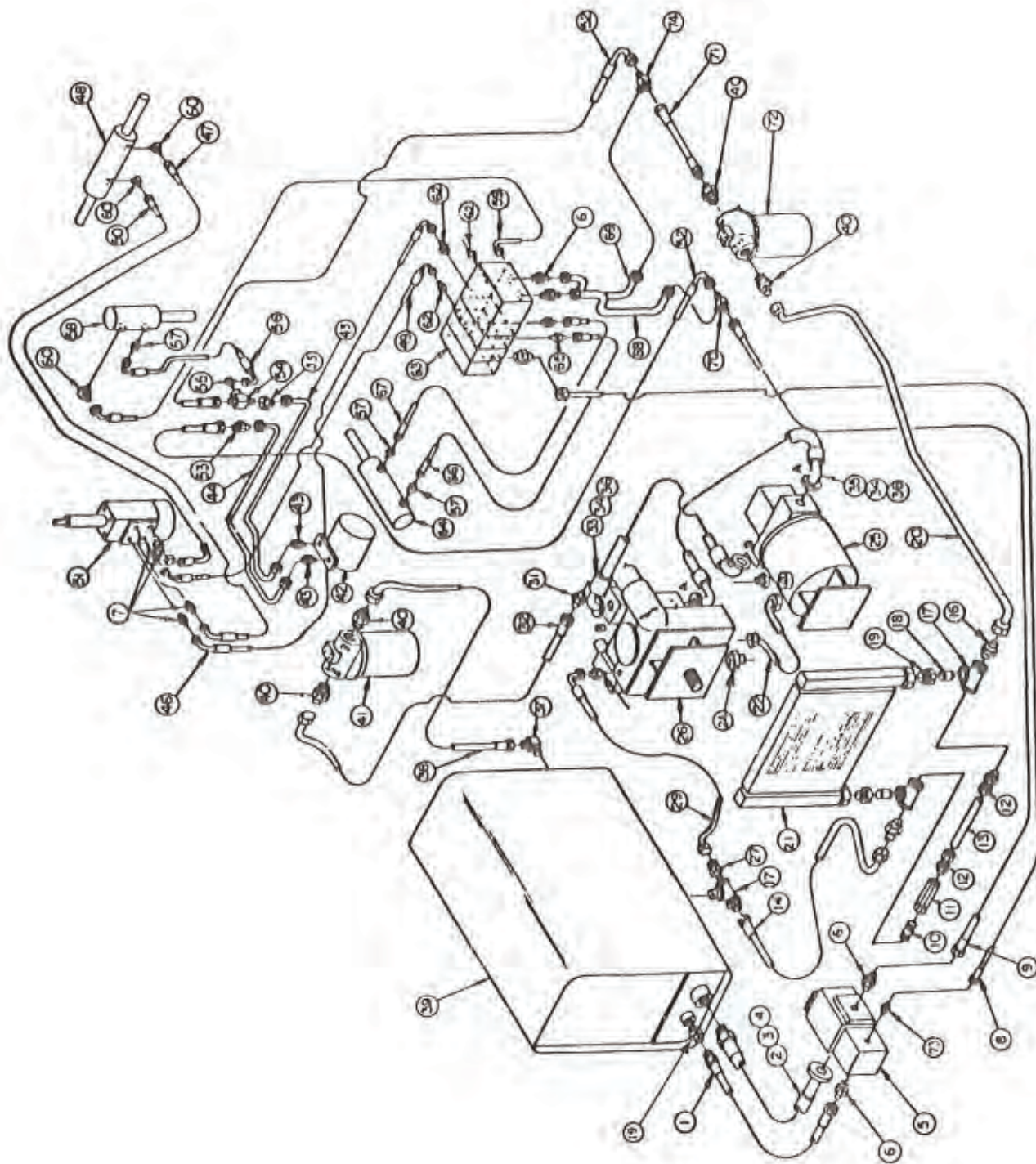
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433039	1	Fuel Tank
2	433775	1	Hose, Suction 3/8" ID x 105"
3	433162	1	Adapter, 3/8" Male Pipe x 3/8" Hose Barb
	433400		Worm Gear Clamp (Not Shown)
7	433776	1	Hose, Return 3/16" ID x 92"
8	433163	1	Adapter, 3/8" Male Pipe x 3/16" Hose Barb
9	433040	2	Straps Fuel Tank
		4	Carriage Bolts 5/16" NC x 1"
		4	Lockwasher 5/16"
		4	Hex Nut 5/16" NC
10	433799	1	Cap, Fuel Tank
11	433904	1	Fuel Filter
12	433905	1	Adapter 3/8"MP - 3/8" Hose Barb



HYDRAULIC SYSTEM

HYDRAULIC SYSTEM

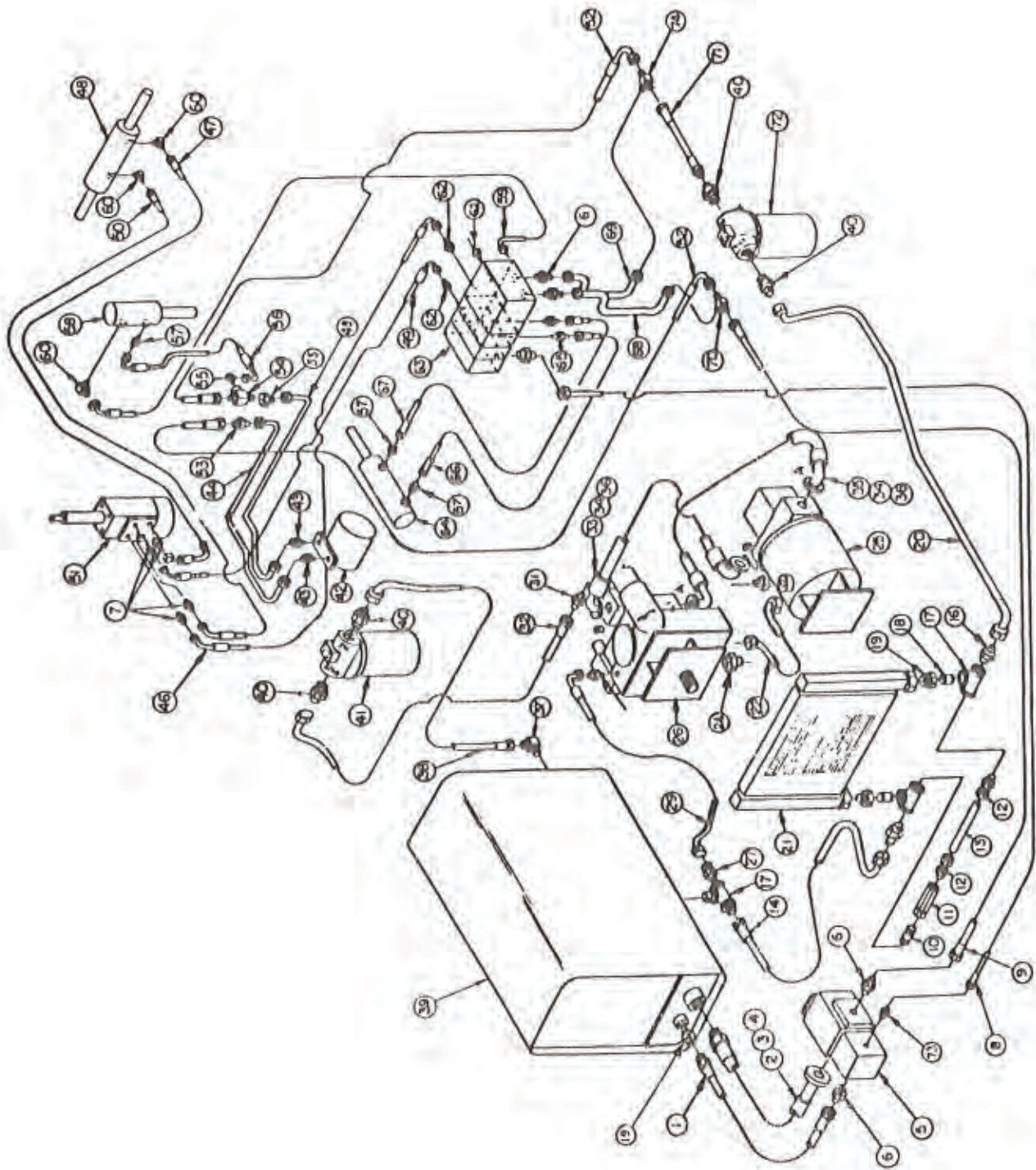
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433534	1	Hose Assy 3/4" x 37"
2	433548	1	Hose Assy 1 1/4" x 32 3/4"
3	433567	1	O-Ring 1 7/8" x 1/8"
4	433549	1	Split Flange 24 FH
5	433154	1	Pump
6	433550	4	Adapter 12MB - 12MJ
	433571	4	O-Ring
7	433857		Adapter 8MB - 6MJ
	433569	3	O-Ring
8	433537	1	Hose Assy 3/8" x 125
9	433529	1	Hose Assy 3/4" x 91 1/2"
10	L001504-14	1	Nipple 3/4" x 2 1/2" SCH 40 BLK
11	433226	1	Check Valve, Heat Exchanger
12	433262	2	Tube Fitting, Heat Exchanger
13	433465	1	Hydraulic Tube, Heat Exchanger
14	433890	1	Hose Assy 1 x 34
15	433846	2	Tee, 3/4 FP - 1 FP Line
16	433895	2	Adapter 16MP - 16MJ
17	433849	1	Tee 16MP - 16 MJ Branch
18	433852	2	Nipple 1" x Close Sch 40 Blk.
19	433900	2	Adapter 12MP - 12MJ Long
20	433891	1	Hose Assy 1 x 48"
21	433513	1	Heat Exchanger
22	433725	1	Hose Assy 1/2" x 22" - 180° (Eaton)
24	433859	2	Adapter 12MB - 8MJ
	433571	1	O-Ring
25	433115	1	Hydraulic Motor (Eaton)
26	433116	1	Variable Pump w/Std. Service Cntl. (Eaton)
27	433830	1	Adapter 16 FJ - 8MJ
29	433547	1	Hose Assy 1/2" x 53"
31	433858	1	Adapter 16MB - 12MJ (Eaton)
32	433854	1	Hose Assy 3/4" x 51" (Eaton)
33	433182	1	Hose Assy 1" x 52 1/2"
34	430046	4	O-Ring 1 5/16" x 1/8"



HYDRAULIC SYSTEM

HYDRAULIC SYSTEM

<u>REF</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
35	433183	1	Hose Assy 1" x 66 3/8"
36	433184	4	Split Flange 16 FH
37	433855	5	Adapter 12MP - 12MJ 90°
38	433853	1	Hose Assy 1" x 18 1/2"
39	433037	1	Hydraulic Oil Tank
	433038	2	Strap, Hydraulic Tank
40	433851	4	Adapter 20MP - 16MJ
41	433108	1	Suction Filter
42	433425	1	Motor, Broom (Char-Lynn)
43	400265	2	Adapter, 10MB - 10MJ
	433570		O-Ring
44	433722	1	Hydraulic Tube Brm Mtr Press Line/Charlynn
45	433723	1	Hydraulic Tube Brm Mtr Return Line/Charlynn
46	433540	1	Hose Assy 3/8" x 75"
47	433539	1	Hose Assy 3/8" x 140"
48	433092	1	Cylinder Power Steering
	433092-1	REF	Seal Kit
49	433541	1	Hose Assy 3/8" x 74"
50	433538	1	Hose Assy 3/8" x 134"
51	433117	1	Steering Valve
	433118	REF	Column, Steering - 6" (Not Shown)
	433119	REF	Nut, Steering Wheel (Not Shown)
	433263	REF	Spacer, Steering Valve (Not Shown)
52	433898	2	Hose Assy 3/4" x 74 1/2"
53	433892	1	Adapter 10MJ - 12MJ
54	433893	1	Adapter Tee 8MJ - 12MJ - 12MJ
55	433894	1	Adapter 12FJ - 10MJ
56	433545	1	Hose Assy 3/8" x 20
57	400294	3	Adapter 6MP - 6MJ
58	433090	1	Cylinder, Broom Lift
	433090-1	REF	Seal Kit
59	433899	1	Hose Assy 3/8" x 86"

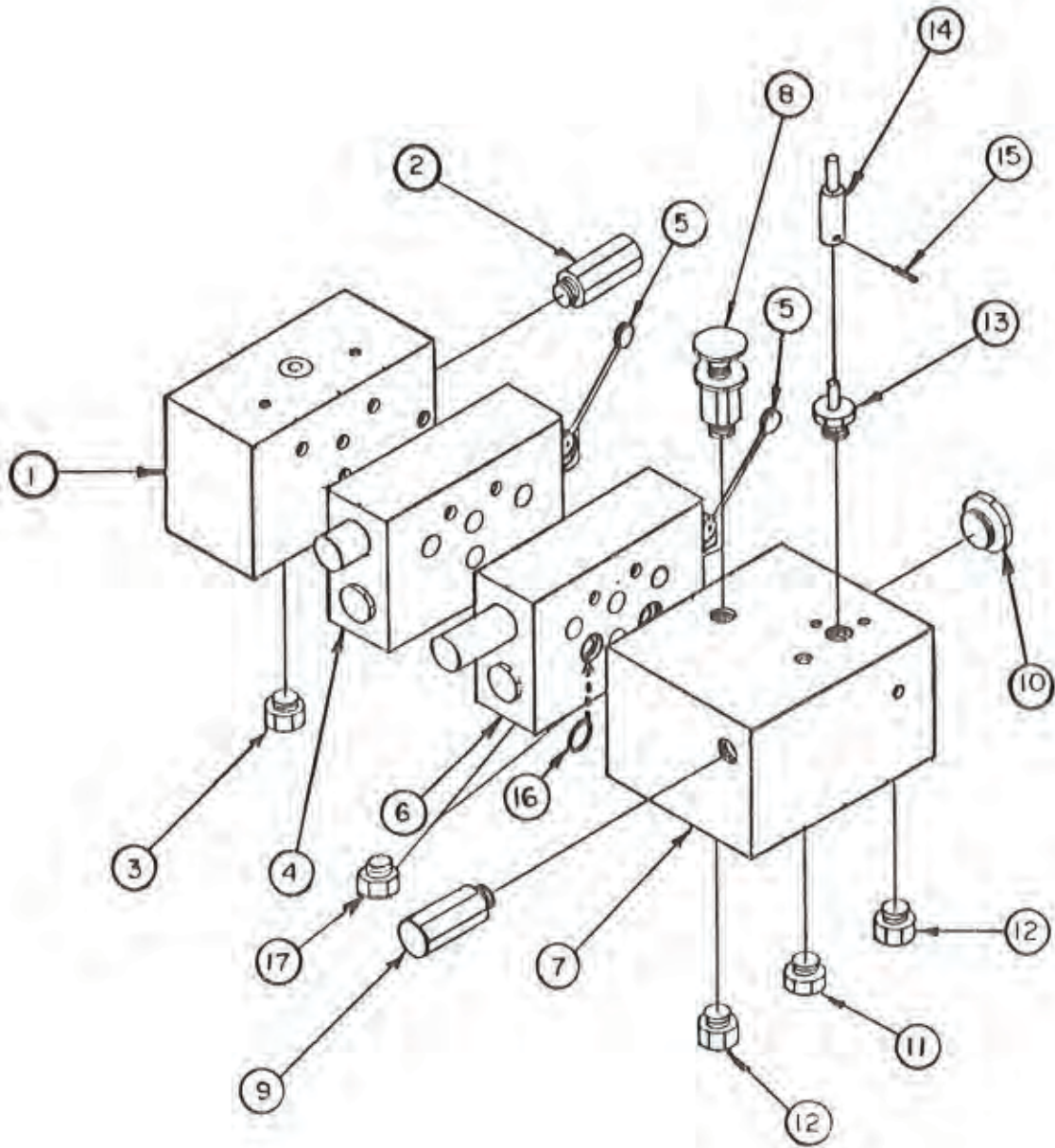


HYDRAULIC SYSTEM

HYDRAULIC SYSTEM

<u>REF</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
60	400250	3	Adapter 6MP - 6MJ 90°
61	433304	2	Adapter 6MB - 6MJ 90°
	433568	2	O-Ring
62	433305	4	Adapter 6MB - 6MJ
	433568	2	O-Ring
63	433134	1	Valve Block Assy
64	433091	1	Cylinder, Broom Swing
	433091-1	REF	Seal Kit
	433570	2	O-Ring
66	433542	1	Hose Assy 3/8" x 21 1/2"
67	433543	1	Hose Assy 3/8" x 23 1/2"
68	433462	1	Hydraulic Tube, Valve Block-Press. Line
69	433463	1	Hydraulic Tube, Valve Block-Return Line
70	400244	1	Adapter 12MJT
71	433856	1	Hose Assy 1" x 23 3/4"
72	433700	1	Return Filter
	433701	1	Replacement Element
73	433344	1	Adapter 8MB - 8MJ
74	433841	1	Tee, 16MJ - 12MJ Line

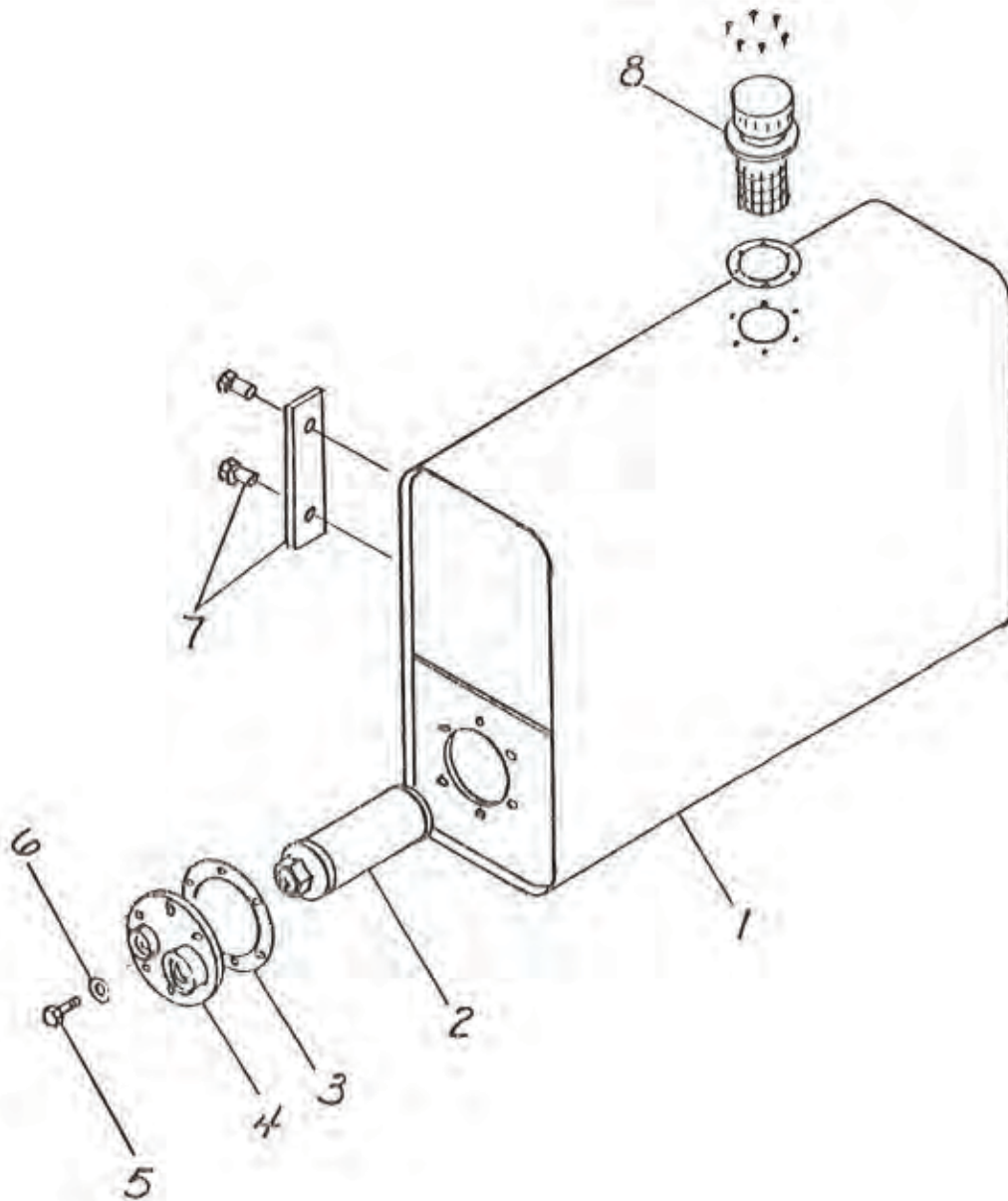
VALVE BLOCK ASSY.



VALVE BLOCK ASSY

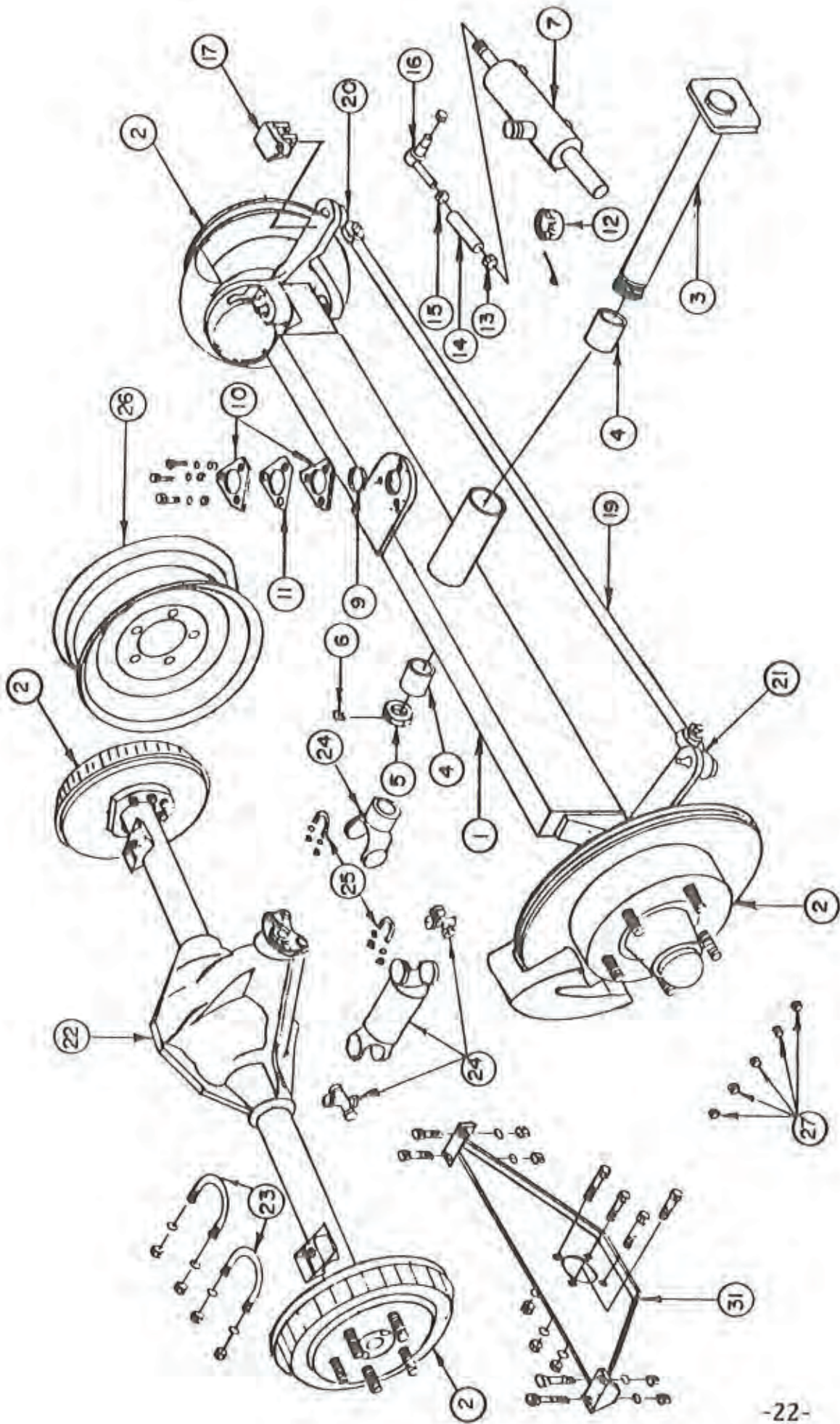
<u>REF.</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433705	1	Valve Block, Steering & Lift
2	433705-1	1	Relief Valve Cartridge
3	433705-2	1	Priority Valve Cartridge
4	433135	1	Valve Section, Swing Cylinder
5	433362	2	Control Valve Handle
6	433136	1	Valve Section, Broom Float
7	433706	1	Valve Block Broom Control
8	433706-1	1	Relief Valve Cartridge w/Knob
9	433706-2	1	Relief Valve Cartridge
10	433706-3	1	Differential Pressure Sensing Valve
11	433706-4	1	Check Valve Pilot Operated Cartridge
12	433706-5	2	Check Valve Cartridge
13	433706-6	1	Manual Pull Valve
14	433468	1	Control Valve Lever
15	433333	1	Roll Pin
16		2	O-Ring
17	433897	2	Plug 8MB

HYDRAULIC OIL TANK ASSY.



HYDRAULIC OIL TANK ASSY

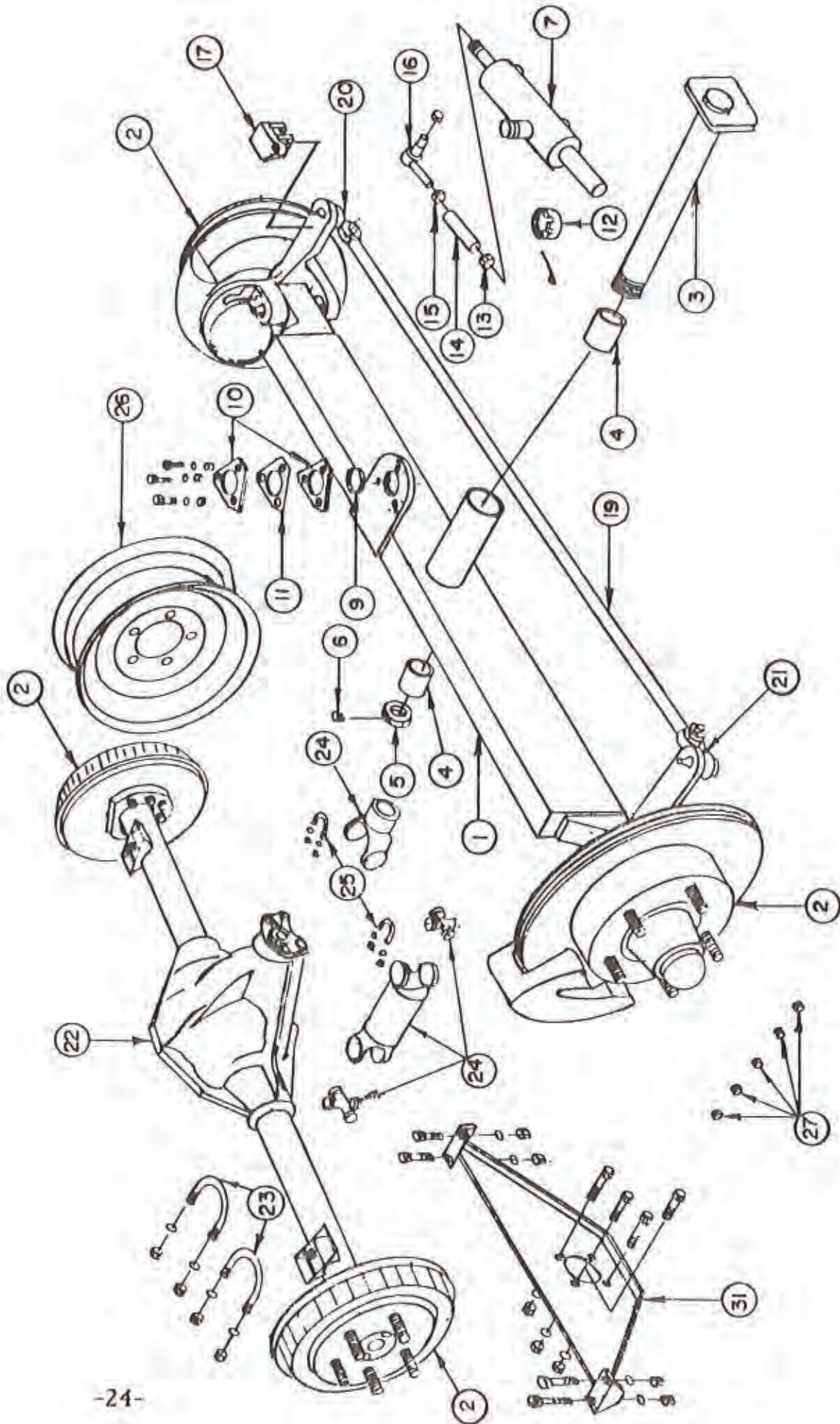
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433037-5	1	Oil Tank
2	433186	1	Strainer
3	480012	1	Gasket
4	410590	1	Adapter, Oil Tank Suction
5		6	Capscrew, 5/16" NC x 3/4"
6	433772	6	Sealing Washer
7	433515	1	Sight Gauge
8	433037-4	1	Filler Breather Group-Includes Gasket



FRONT & REAR END ASSY.

FRONT & REAR END ASSY

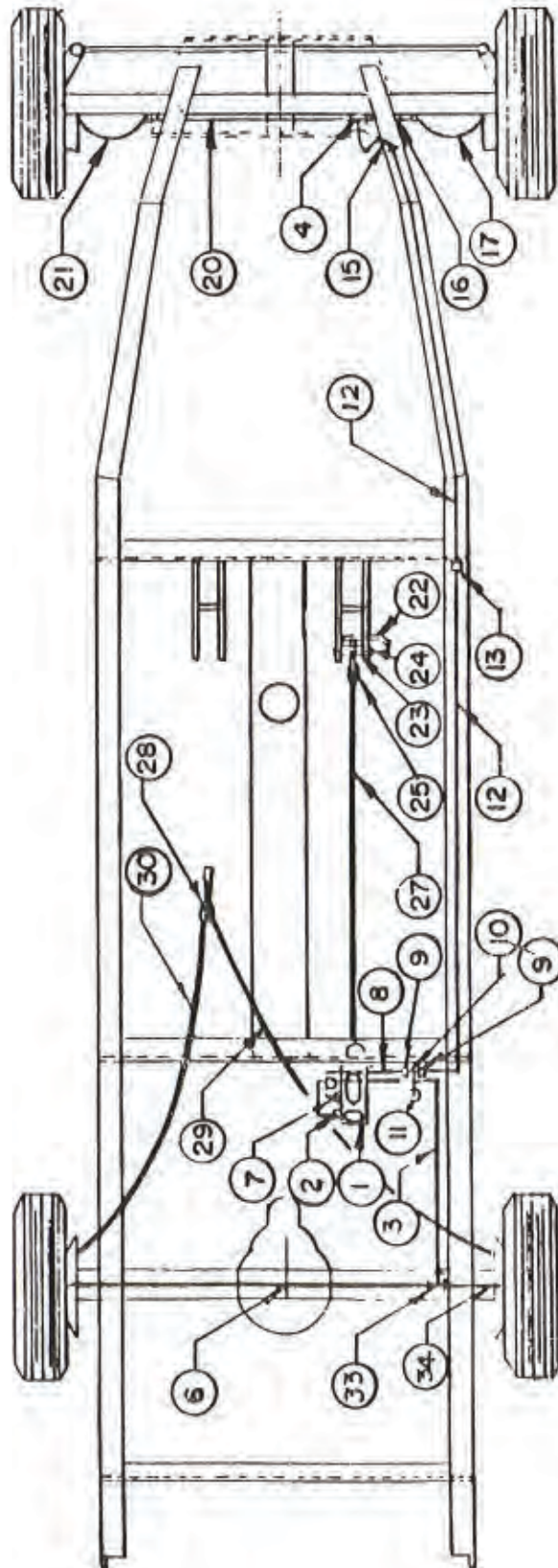
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433051	1	Front Axle Weldment
2			See Front & Rear Brake Assemblies
3	433106	1	Front Axle Pivot Pin
4	430231	2	Front Axle Pivot Pin, Bushing
5	433399	1	Front Axle Pivot Pin, Nut
6	401031-1	1	Sq. HD Set Screw 5/16" NC 3/4"
7	433092	1	Power Steering Cylinder
8	400250	2	Adapter, Power Steering Cylinder (Not Shown)
9	433099	1	Bearing
10	433555	1	Bearing, Flangette
11	433467	1	Bearing, Flangette, Gasket
		3	Capscrew 1/4" NC x 3/4"
		3	Lockwasher 1/4"
		3	Hex Nut 1/4"
12	400488	1	Slotted Nut 1" - 14NF
		1	Cotter Pin 1/8" x 2"
13	433169	1	Jam Nut 3/4" - 16"NF (R.H.)
14	433373	1	Power Steering Cylinder, Adjuster Link
15	433170	1	Jam Nut 3/4" - 16"NF (L.H.)
16	433172	1	Tie Rod End
17	433052	1	Power Steering Lug
18	433376	2	Capscrew 5/16" NF x 3" (Not Shown)
		2	Lockwasher 5/16"
19	433105	1	Tie Rod
20	433088	1	Tie Rod End (R.H.)
21	433089	1	Tie Rod End (L.H.)
22	433042	1	Rear Axle Assembly with Brakes
23	433360	4	U-Bolt 1/2" - 20"NF
		8	Nut 1/2" - 20"NF
		8	Lockwasher 1/2"
24	433198	1	Drive Shaft w/End Yoke
25	433411	1	U-Bolt Kit (For Drive Shaft)
26	433073	4	Wheels
27	433161	20	Lug Nuts
28	433087	4	Hubcap, Optional (Not Shown)



FRONT & REAR END ASSY.

FRONT & REAR END ASSY

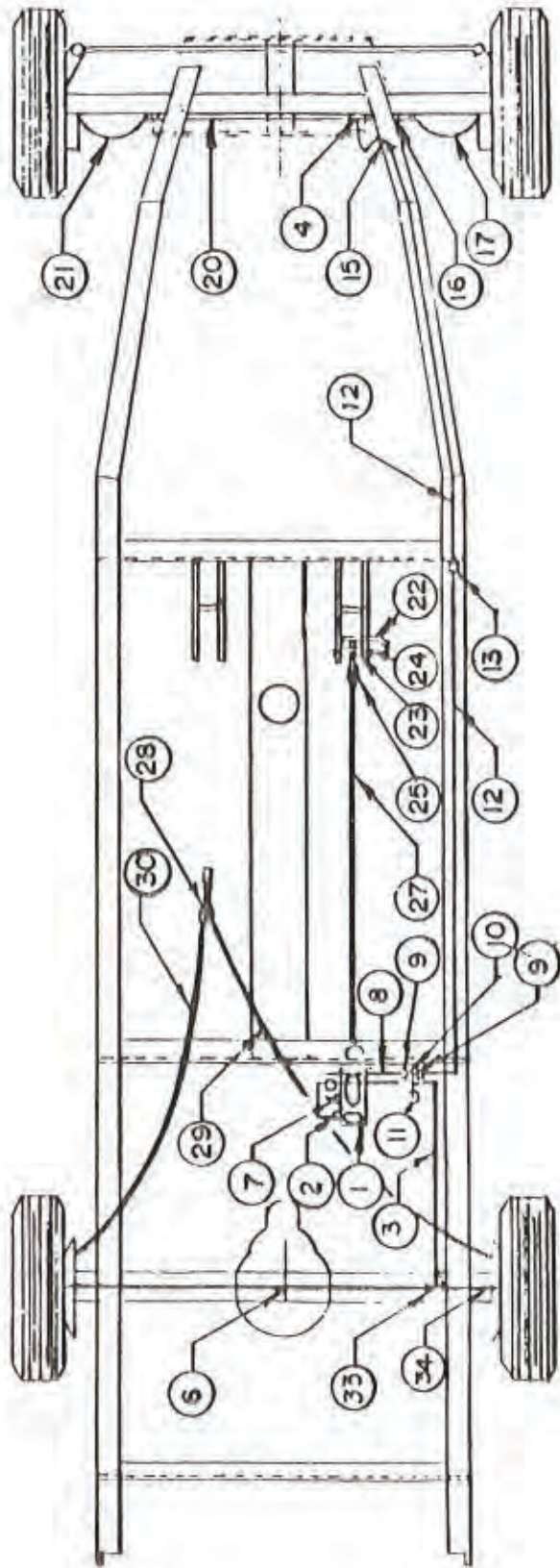
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
29	433096	4	Tire, H78 - 15 (Not Shown)
30	433388	4	Tire, Stems (Not Shown)
31	433023	1	Hydraulic Motor Mount Plate
		4	Capscrew 1/2" NC x 1 1/4"
		4	Lockwasher 1/2"
		4	Nut 1/2" NC
		4	Capscrew 3/8" NC x 1 1/2"
		6	Flatwasher 3/8"
		4	Lockwasher 3/8"
		4	Nut 3/8" NC
		1.8oz	85-90 GP Gear Lube (Not Shown)



BRAKE ASSY.

BRAKE ASSY

<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433085	1	Master Cylinder
		2	Capscrew 5/16" NC x 1 1/4"
		2	Lockwasher 5/16"
		2	Hex Nut 5/16" NC
2	433235	1	Bushing 1/4" M Inv. Flare x 3/16" F Inv. Flare
3	433228	1	Brake Line 3/16" x 60"
4	433237	2	Tee 3/16" Female Inv. Flare
6	433840	1	Brake Line
7	433236	1	Bushing 1/4" F Inv. Flare x 5/16" M Inv. Flare
8	433229	1	Brake Line 1/4" x 20"
10	433837	1	Tee 1/8" NPT (Branch) x 1/4" Inv. Flare
11	433402	1	Brake Light Switch
	433285	2	Bullet Connectors (Not Shown)
12	433231	2	Brake Line 1/4" x 60"
13	433232	1	1/4" Inv. Flare Coupling
15	433171	1	Brake Hose
16	433453	1	Brake Line 3/16" x 4"
17	433218	1	Brake Hose
18	433313	2	Capscrew 3/8" (Not Shown)
19	433314	2	Washer (Not Shown)
20	433213	1	Brake Line 3/16" x 20"
21	433217	1	Brake Hose
22	433032	1	Brake Pedal
23	433032-4	2	Nylon Bushing (Brake Pedal)
24	433133	1	Pin
		2	Cotter Pin 1/16" x 3/4"
25	433028	1	Clevis 3/8" Pins 3/8" NF (Female)
26	433125	1	Pin 3/8" x 1" (Not Shown)
		1	Hex Nut 3/8" NF
27	433029	1	Brake Push Rod
28	433188	1	Brake Lever Handle
29	433190	1	Brake Cable
30	433189	1	Brake Cable
31	400736	6	Ty-Rap (Not Shown)
32	433122	1	Return Spring (Not Shown)
33	433836	1	Tee 3/16" M Inv. Flare x 3/16" F Inv. Flare Line

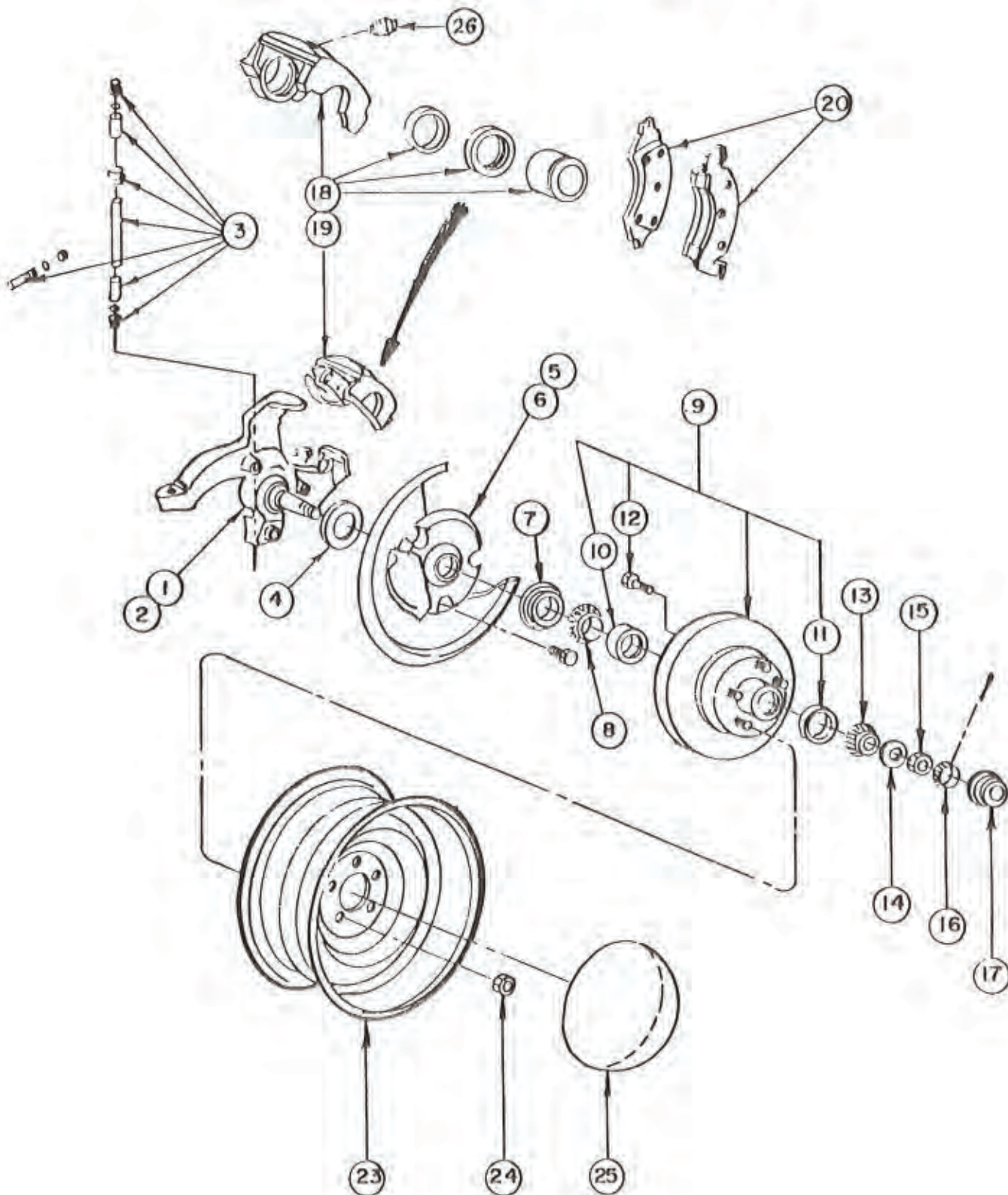


BRAKE ASSY.

BRAKE ASSY

<u>REF.</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
34	433835	2	Brake Hose
35	433842	1	3/16 Inv. Flare Coupler
36	433843	1	Brake Line 3/16" x 12"
37	433313	2	Bolt Brake Hose
38	433314	4	Gasket
39	433833	4	Clip

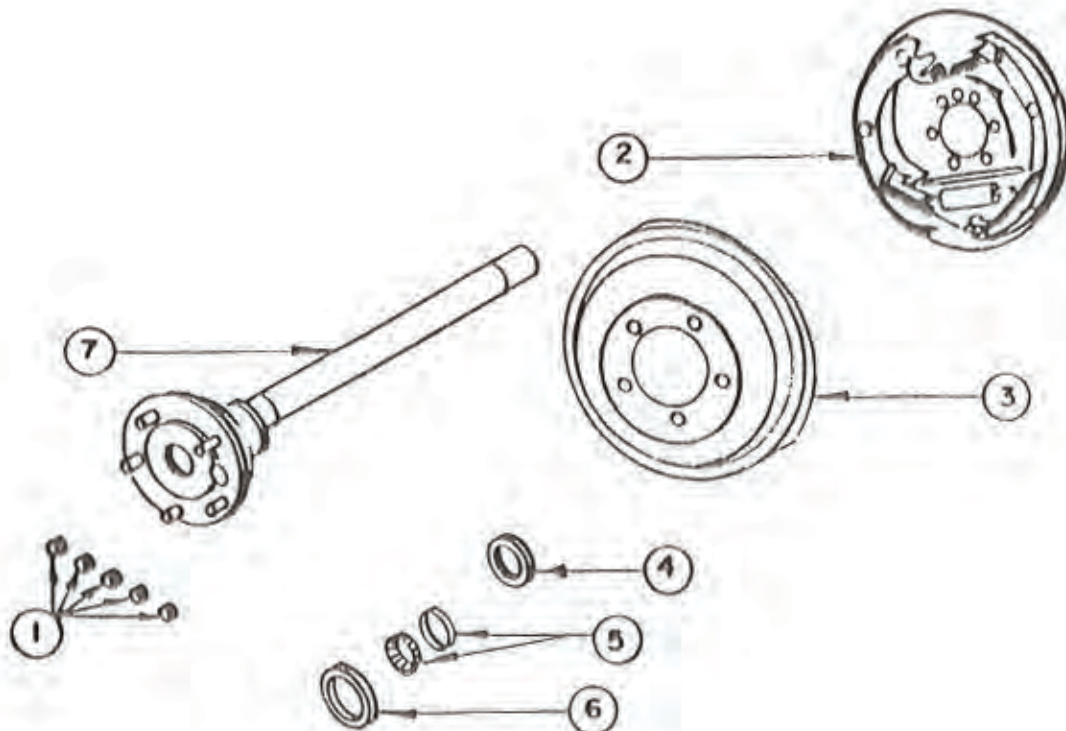
FRONT BRAKE ASSY.



FRONT BRAKE ASSY

<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433043	1	Spindle R.H.
2	433044	1	Spindle L.H.
3	433080	2	Spindle Pin Kit
4	433045	2	Gasket
5	433046	1	Shield R.H.
6	433047	1	Shield L.H.
		6	Capscrew 1/4" x 1/2" NC
		6	Flatwasher 1/4"
7	433048	2	Retainer Assy
8	433049	2	Cone & Roller Assy (Inner)
9	433079	2	Hub & Rotor
10	433449	2	Rotor Cup (Inner)
11	433450	2	Rotor Cup (Outer)
12	433451	10	Rotor Press-In Stud
13	433050	2	Cone & Roller Assy (Outer)
14	433082	2	Washer
15	433386	2	Nut (Spindle Retainer) 3/4" NF
16	433387	2	Nut Retainer Caps
		2	Cotter Pin 1/8" x 1"
17	433448	2	Grease Cup
18	433083	1	Caliper Assy R.H.
19	433084	1	Caliper Assy L.H.
20	433081	2	Shoe & Lining Kit
21	433086	2	Hardware Kit (Not Shown - To Attach Caliper Assy To Spindle)
22	433452	2	Caliper Repair Kit (Not Shown)
23	433073	4	Wheels
24	433161	20	Lug Nuts 1/2" - 20 NF
25	433087	4	Hub Caps (Optional)
26	433086-1	2	Bolt (Special)

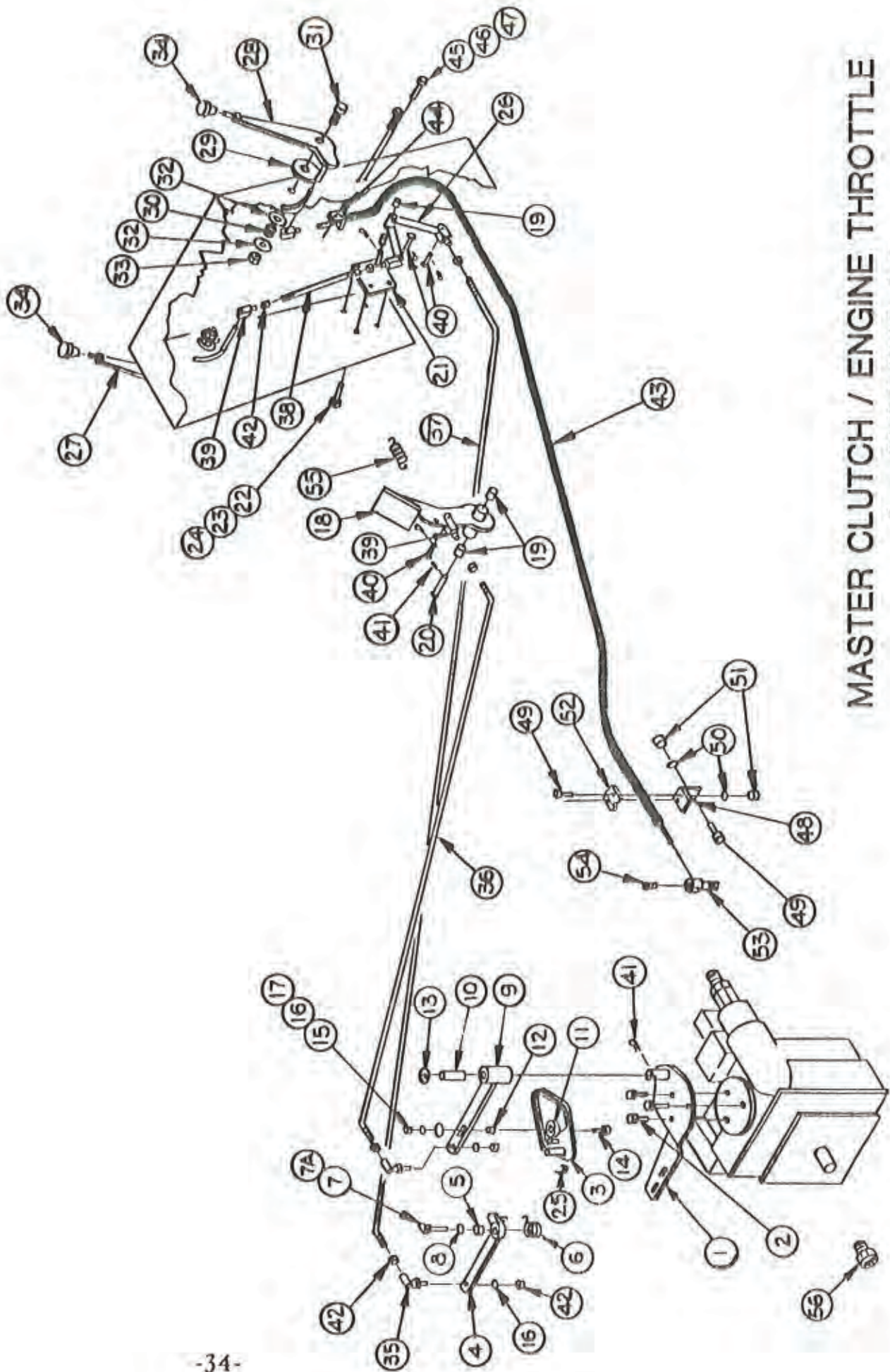
REAR AXLE SHAFT, BRAKE, BEARINGS & SEALS



REAR AXLE SHAFT, BRAKE, BEARINGS AND SEALS

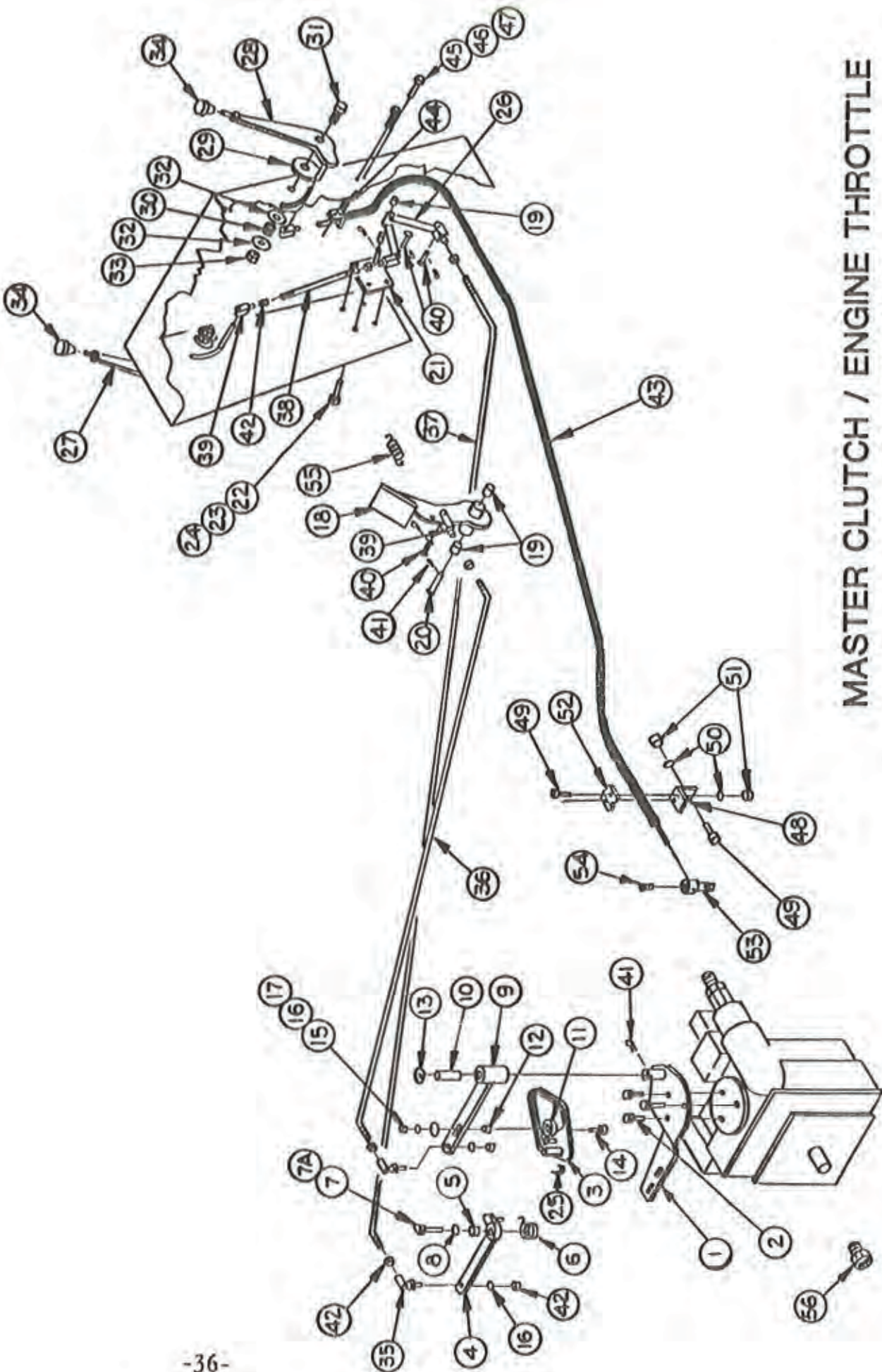
<u>REF.</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433161	20	Lug Nut
2	433469	1	Brake Assembly, R.H. Rear
	433470	1	Brake Assembly, L.H. Rear (Not Shown)
	433471	2	Brake Shoes, Rear (Not Shown)
	433472	2	Wheel Brake Cylinder, Rear (Not Shown)
	433473	2	Wheel Brake Cylinder Kit, Rear (Not Shown)
3	433474	2	Drum, Rear
4	433475	2	Oil Seal, Inner
5	433476	2	Bearing, Rear Axle, Cup & Cone
6	433477	2	Oil Seal, Outer
7	433478	2	Rear Axle Assembly
	433479	10	Lug. Stud, Rear

MASTER CLUTCH / ENGINE THROTTLE for CUMMINS / 2



**MASTER CLUTCH / ENGINE THROTTLE
FOR CUMMINS/2**

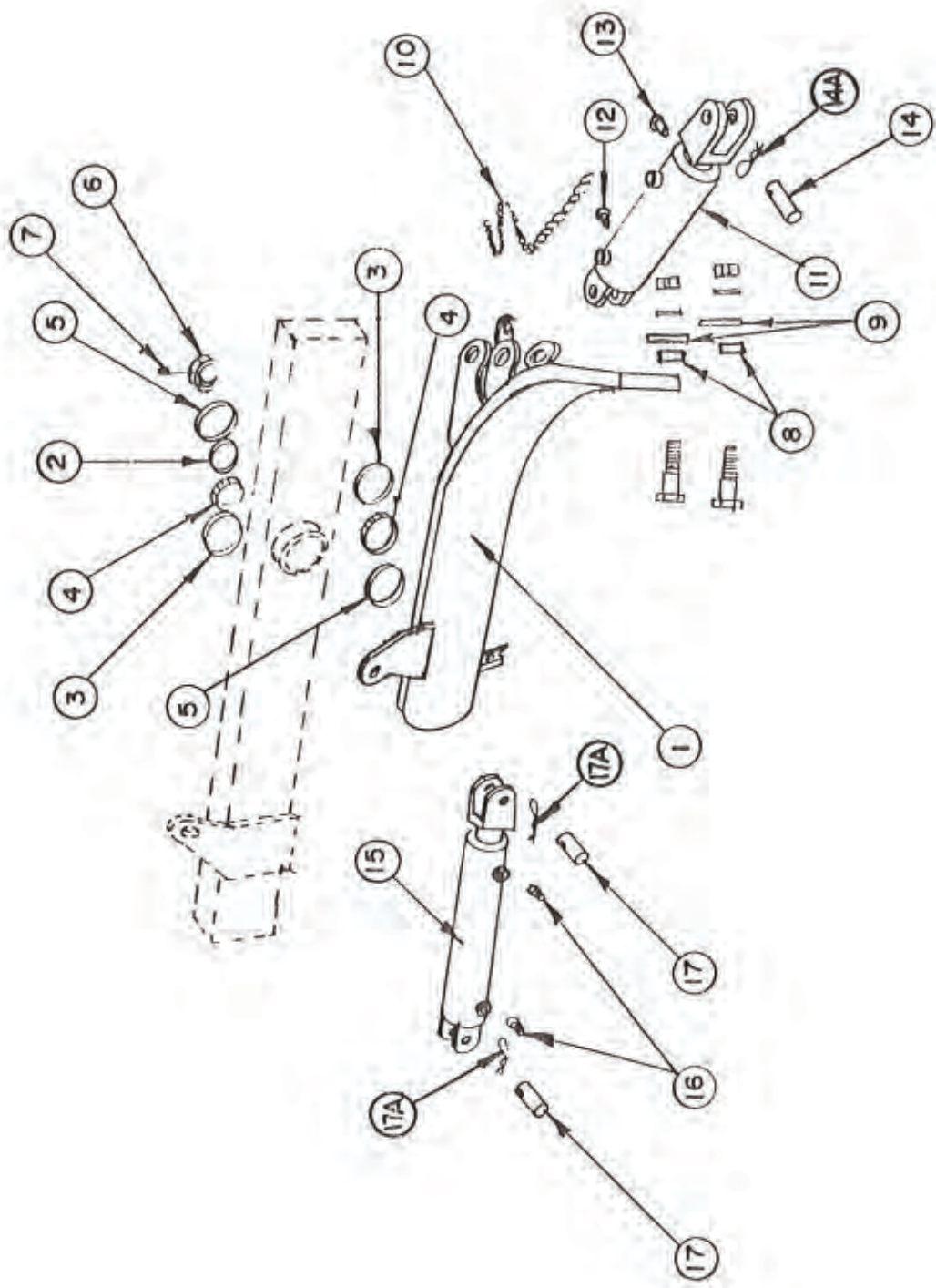
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433715	1	Mount, Master Clutch (for Eaton Pump)
2		3	Capscrew, 3/8"NC x 1"
3	433141	1	Master Clutch Weldment
4	433143	1	Arm, Master Clutch
5	433150	1	Bronze Bushing 1"OD x 5/8"ID x 1/2" Long
6	433153	1	Spring
7	433742	1	Retaining Pin (Eaton)
8		1	Flatwasher 1/2"
9	433144	1	Lever, Master Clutch
10	433151	1	Bronze Bushing 1"OD x 3/4" ID x 2" Long
11	433147	1	Bearing 5200 Series
12	433149	1	Spacer 5/8"OD x 13/32"ID x 5/8" Long
13	433152	1	Washer 1"OD x 11/16"ID x .051 Thick
14		1	Capscrew 3/8"NC x 2"
15		1	Flatwasher 3/8"
16		1	Lockwasher 3/8"
17		1	Nut 3/8"NC
18	433033	1	Clutch Pedal
19	433032-4	(4)	Nylon Bushings
20	433133	1	Pin 1/2"Dia x 3-3/4" Long
21	433024	1	Mount, Transmission Pivot
22		4	Capscrews 1/4"NC x 3/4" Long
23		4	Lockwasher 1/4"
24		4	Hex Nut 1/4"NC
25	433146	1	Snap Ring
26	433025	1	Transmission Pivot
27	433031	1	Transmission Lever
28	433828	1	Throttle Lever
29	433128	2	Friction Disc.
30	433127	2	Spring
31		2	Capscrew 1/2"NC x 2-1/4"
32		4	Flatwasher 1/2"
33		2	Hex Nut 1/2"NC
34	433129	2	Knob
35	433242	2	Swivel Ball Joint 3/8"NF



MASTER CLUTCH / ENGINE THROTTLE
for CUMMINS / 2

**MASTER CLUTCH / ENGINE THROTTLE
FOR CUMMINS/2**

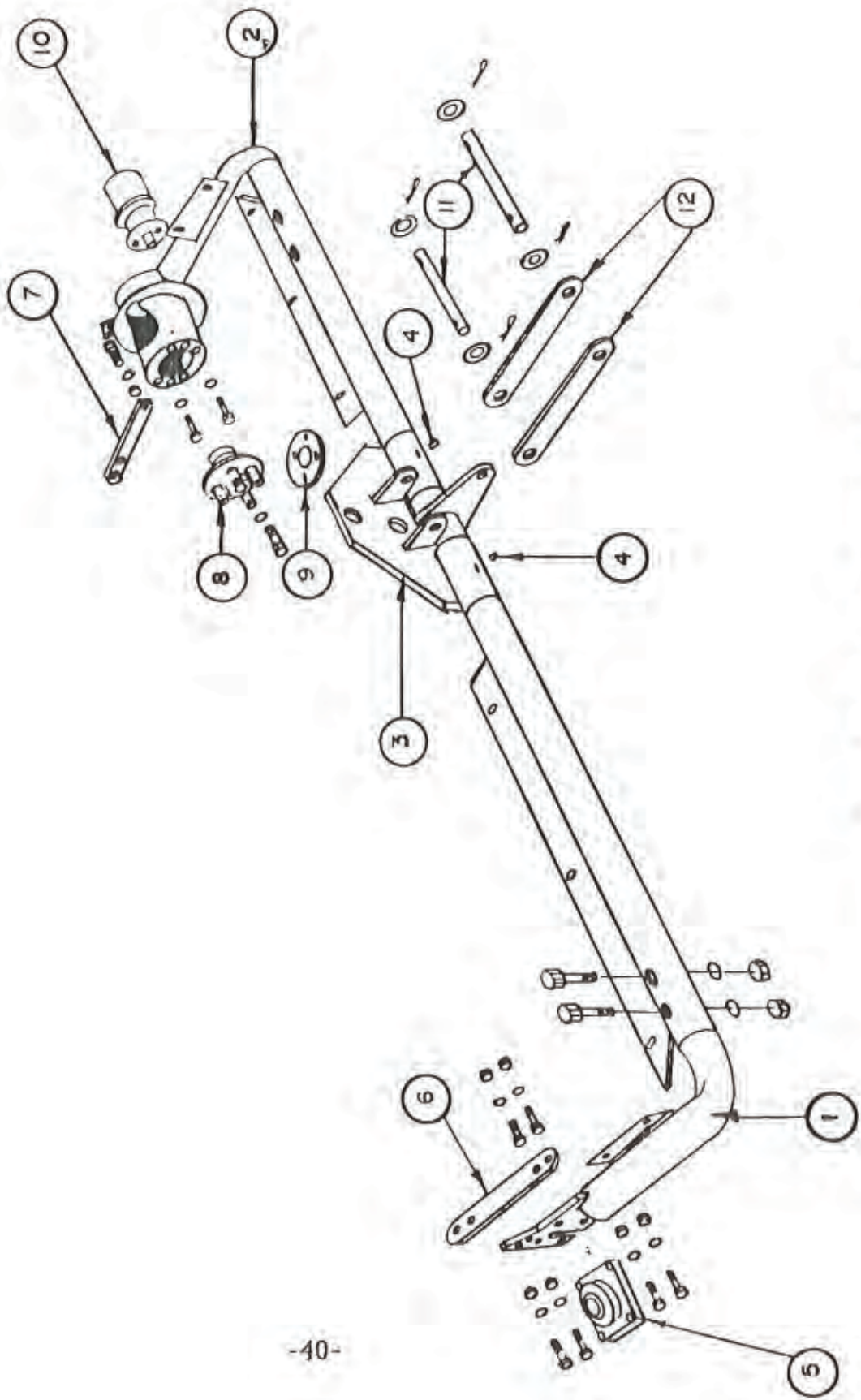
<u>REF.</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
36	433824	1	Push Pod, Pedal to Clutch
37	433825	1	Push Rod, Pivot to Clutch
38	433370	1	Push Rod, Lever to Pivot
39	433028	5	Clevis, 3/8"NF
40	433125	3	Pin 3/8" x 1"
41		8	Cotter Pin 1/16" x 3/4"
42		6	Hex Nut 3/8" - 24 NF
43	433826	1	Throttle Cable
44	433026	1	Anchor, Throttle Cable
45		2	Capscrew 1/4"NC x 3/4"
46		2	Lockwasher 1/4"
47		2	Hex Nut 1/4"NC
48	433760	1	Mount, Throttle Cable
49		3	Capscrew, 1/4"NC x 1"
50		3	Lockwasher, 1/4"
51		3	Hex Nut, 1/4"NC
52	433761	1	Retainer, Throttle Cable
53	433770	1	Pivot, Clamp Bolt
54		1	Allen Head Setscrew 1/4"NF x 1/2"
55	433122	1	Return Spring



BROOM SWING FRAME ASSY.

BROOM SWING FRAME ASSY

<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433113	1	Swing Frame Weldment
2	430022	1	Spacer
3	433100	2	Bearing Cup
4	433101	2	Bearing Cone
5	433102	2	Seal
6	433399	1	Hex Nut (Swing Frame)
7	401030-1	1	Sq. HD Set Screw 5/16" x 3/4" NC
		2	Capscrew 1" x 3 1/2" NC
8	430057	2	Bushing (Spacer) 1 1/2" OD x 1" ID x 3/4"
9	430054	2	Flatwasher 2 1/2" OD x 1 1/16" ID
		2	Lockwasher 1"
		2	Hex Nut 1" NC
10	433339	1	Chain 5/16" x 40"
	433347	1	H-Clevis 3/8" (Not Shown)
11	433090	1	Broom Lift Cylinder
12	400250	1	Hydraulic Fitting
13	400294	1	Hydraulic Fitting
14	433372	1	Pin 1" Dia x 3 1/2"
14A	433781	2	Safety Pin
15	433091	1	Broom Swing Cylinder
16	400294	2	Hydraulic Fitting
17	433372	2	Pin 1" Dia x 3 1/12"
17A	433781	4	Safety Pin
18	433324	1	Hose Clamp (Not Shown)
19	433322	2	Hose Clamp (Not Shown)

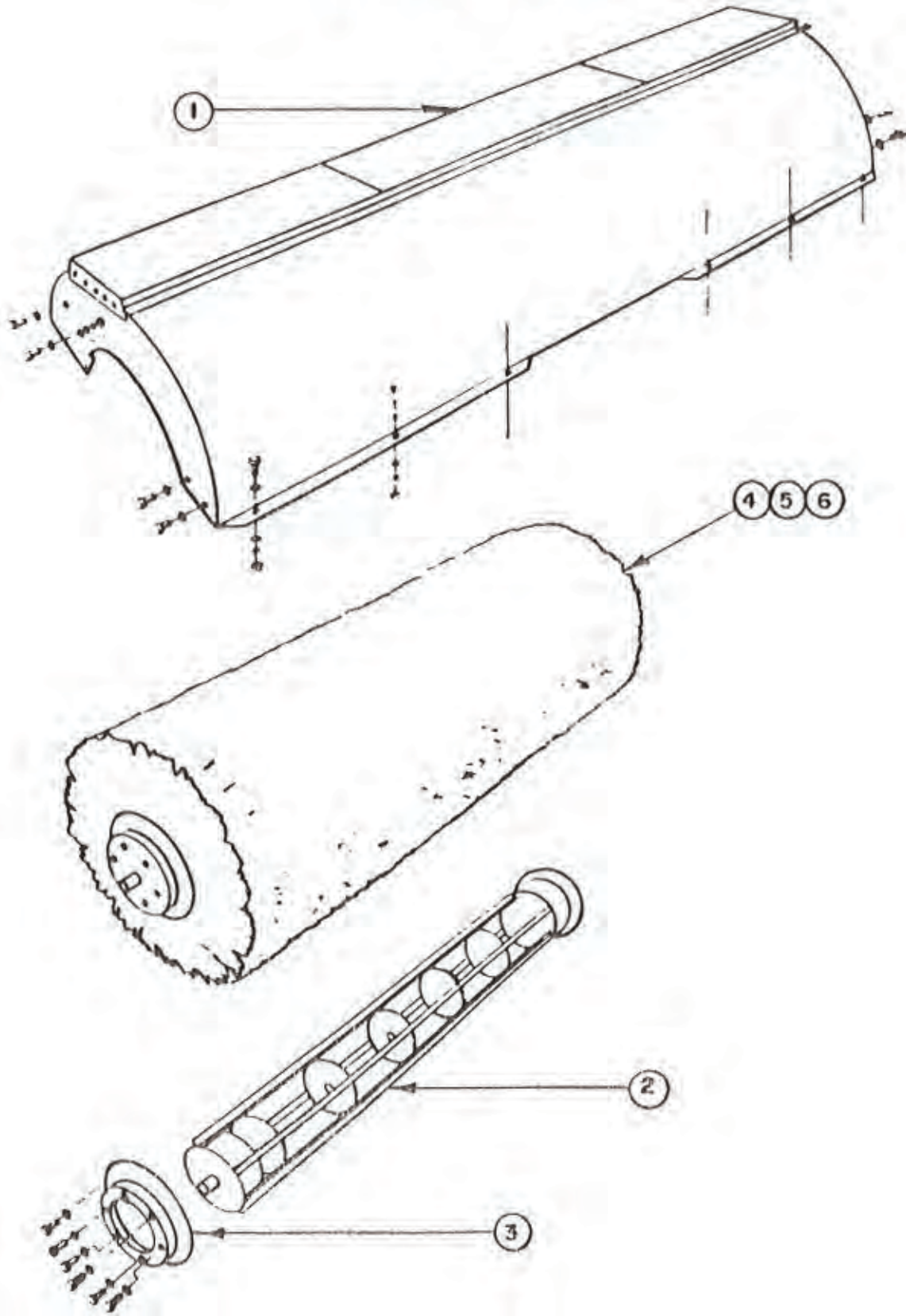


BROOM ARM ASSY.

BROOM ARM ASSY

<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433457	1	Broom Arm (Bearing Side)
2	433458	2	Broom Arm (Motor Side)
3	433459	1	Center Section
4	401256	2	Grease Zerk
		4	Capscrew 3/4" NC x 4"
		4	Lockwasher 3/4"
		4	Hex Nut 3/4" NC
5	433103	1	Bearing 1 1/4" Bore
		4	Capscrew 1/2" NC x 2"
		4	Lockwasher 1/2"
		4	Hex Nut 1/2" NC
6	433752	1	Broom Cover Support (Bearing Side)
		2	Capscrew 3/8" NC x 2"
		2	Lockwasher 3/8"
		2	Hex Nut 3/8" NC
7	433420	1	Broom Cover Support (Motor Side)
		1	Capscrew 3/8" NC x 2"
		1	Lockwasher 3/8"
		1	Hex Nut 3/8" NC
8	433075	1	Broom Drive Coupling
		1	Capscrew 3/8" NC x 1"
		1	Lockwasher 3/8"
		1	Flatwasher 3/8" NC
9	433442	1	Rubber Spacer Broom Coupling
10	433425	1	Broom Drive Motor (Char-Lynn)
		2	Capscrew 1/2" NC x 1 3/4"
		2	Flatwasher 1/2"
		2	Lockwasher 1/2"
		2	Hex Nut 1/2" NC
11	433410	2	Pin 1" Dia x 8"
		4	Flatwasher 1"
		4	Cotter Pin 5/32" x 1 1/2"
12	433114	2	Limit Straps

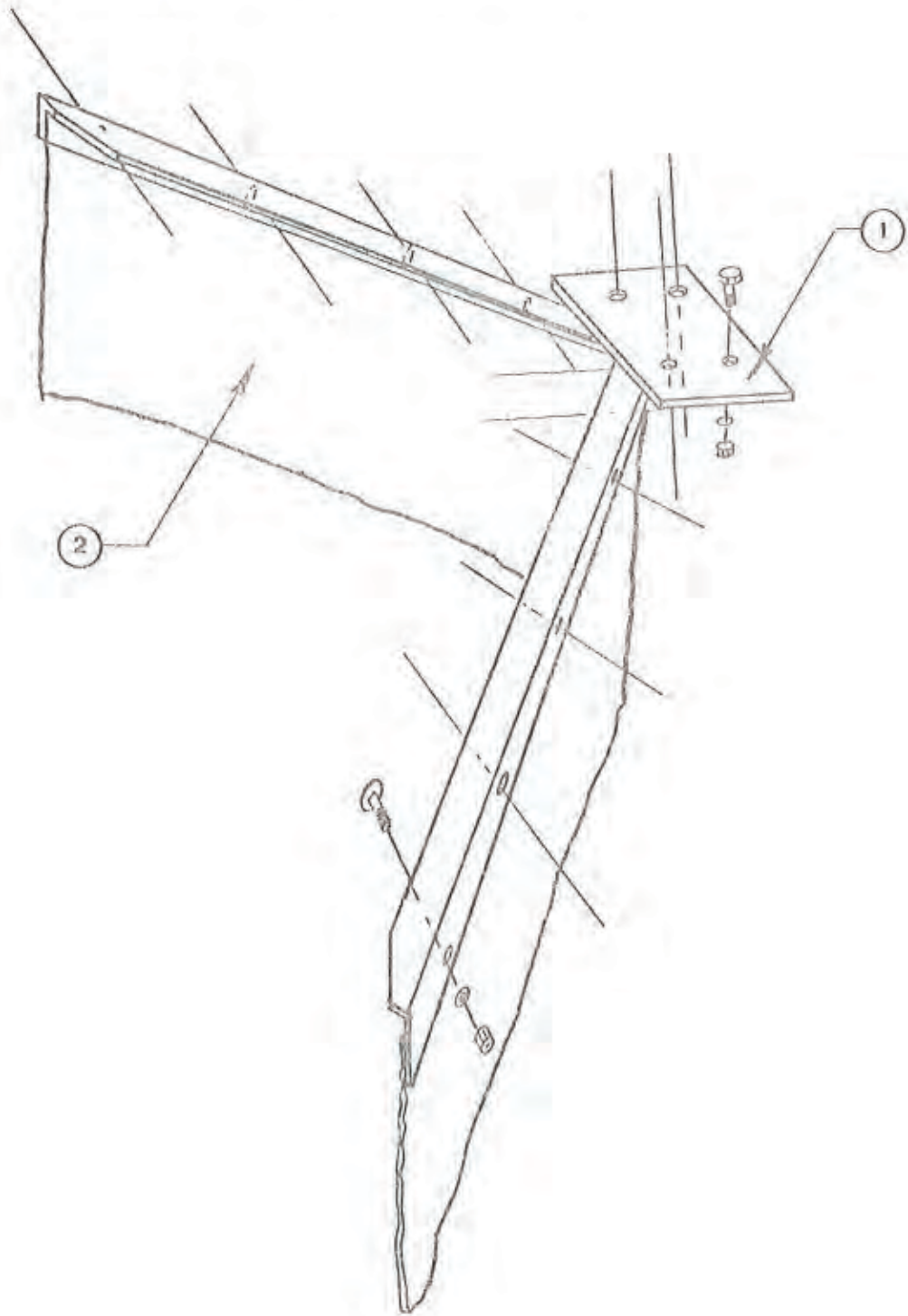
BRUSH ASSY.



BRUSH ASSY.

<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433094	1	Broom Cover
		6	Capscrew 1/4" NC x 1"
		12	Flatwasher 1/4"
		6	Lockwasher 1/4"
		6	Hex Nut 1/4" NC
		4	Capscrew 3/8" NC x 3/4"
		8	Flatwasher 3/8"
		4	Lockwasher 3/8"
		4	Hex Nut 3/8" NC
		4	Capscrew 3/8" NC x 1 1/2"
		8	Flatwasher 3/8"
		4	Lockwasher 3/8"
		4	Hex Nut 3/8" NC
2	433074	1	Broom Core Weldment
3	433178	1	Broom Core End Cap
		6	Capscrew 3/8" NC x 1"
		6	Lockwasher 3/8"
4	430061	1	Brush Assy, Wafer & Spacer (All Poly Proplene)
5	430061-A	1	Brush Assy, Wafer & Spacer (Half Poly & Half Steel)
6	430061-B	1	Brush Assy, Wafer & Spacer (All Steel)

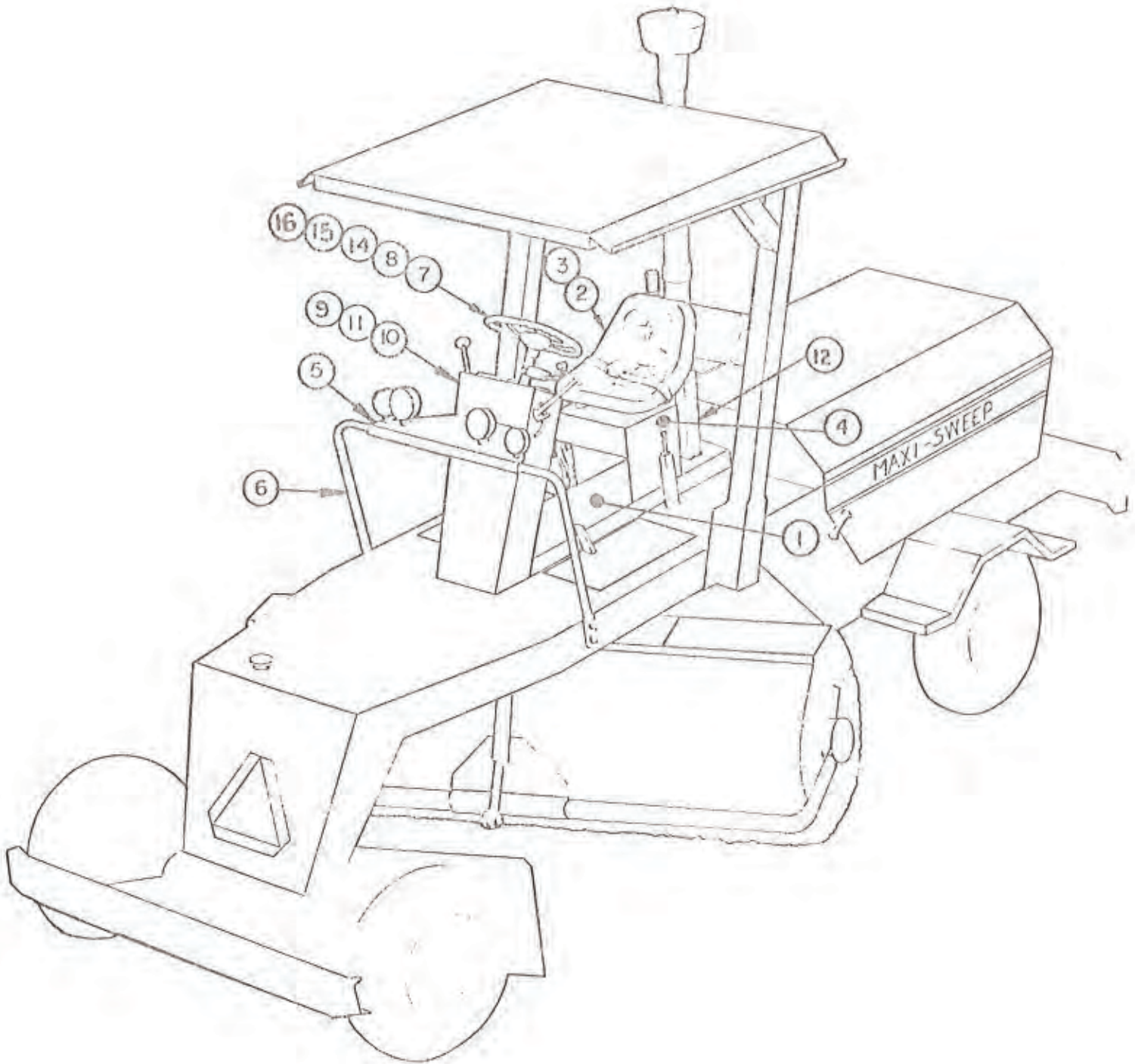
BLAST SHIELD ASSY.



BLAST SHIELD ASSY

<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433419	1	Blast Shield Weldment
		4	Capscrew 3/8" NC x 1 1/4"
		4	Lockwasher 3/8"
		4	Hex Nut 3/8" NC
2	433112	1	Rubber Belt 17" x 74", Blast Shield
	401306	10	Elevator Bolt 1/4" NC x 1"
		10	Lockwasher 1/4"
		10	Hex Nut 1/4" NC

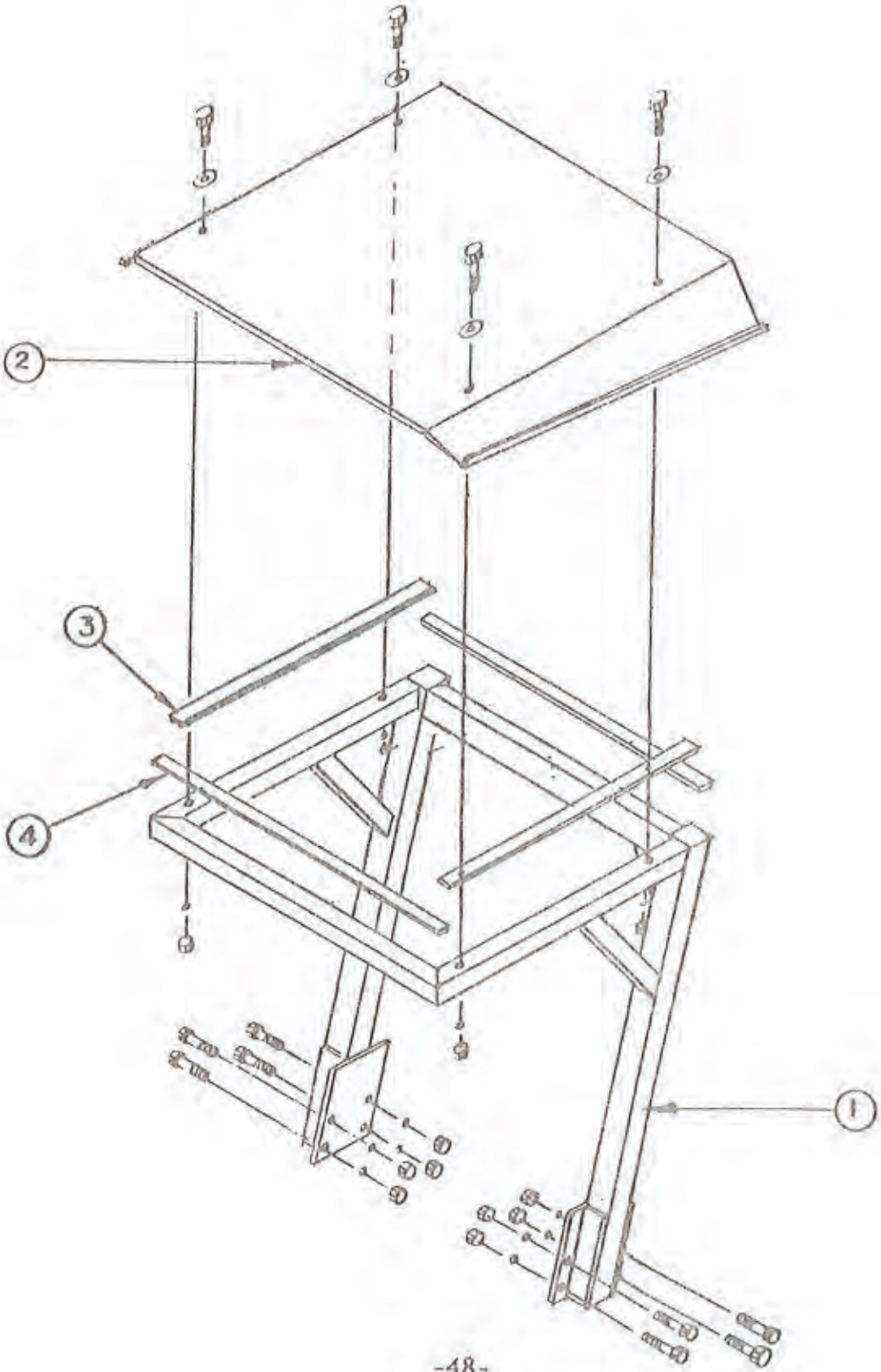
SEAT / CONSOLE / LIGHT BAR AND MISCELLANEOUS PARTS



SEAT/CONSOLE/LIGHT BAR AND MISCELLANEOUS PARTS

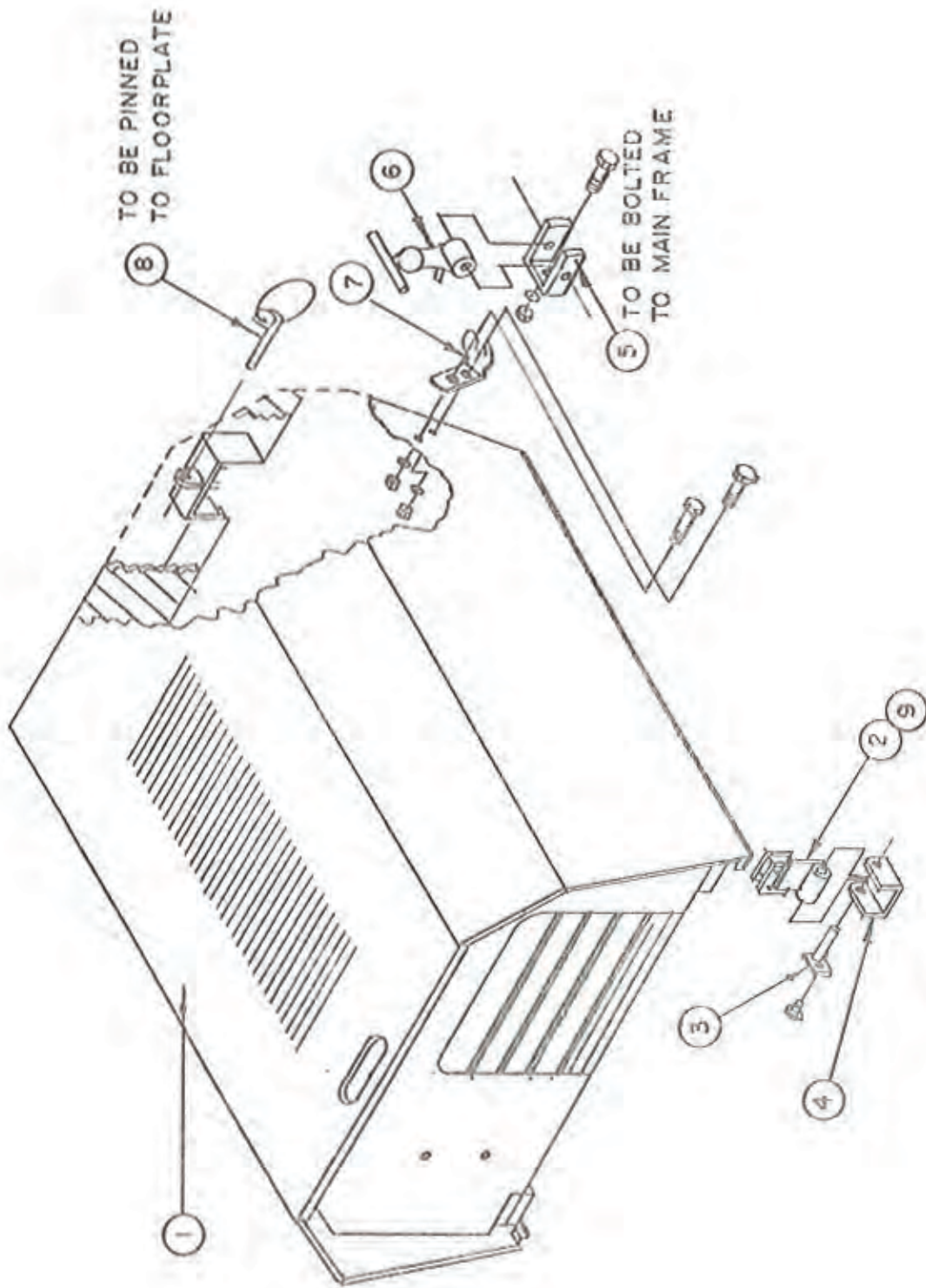
<u>REF.</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433020	1	Floor Plate
2	433064	1	Seat With Slide
3	433357	1	Seat Belts
4	433093	1	Seat and Valve Mount
5	433076	1	Light Mount
6	433070	1	Light Bar
7	433120	1	Steering Wheel
8	433356	1	Cap, Steering Wheel
9	433021	1	Console with Cluster Lights
10	433421	1	Console with Indicator Lights
11	433422	1	Console with Gauges
13	433022	1	Console, Back (Not Shown)
14	433118	1	Steering Column
15	433119	1	Nut, Steering Wheel
16	433263	4	Spacer, Steering Valve

CANOPY ASSY.



CANOPY ASSY

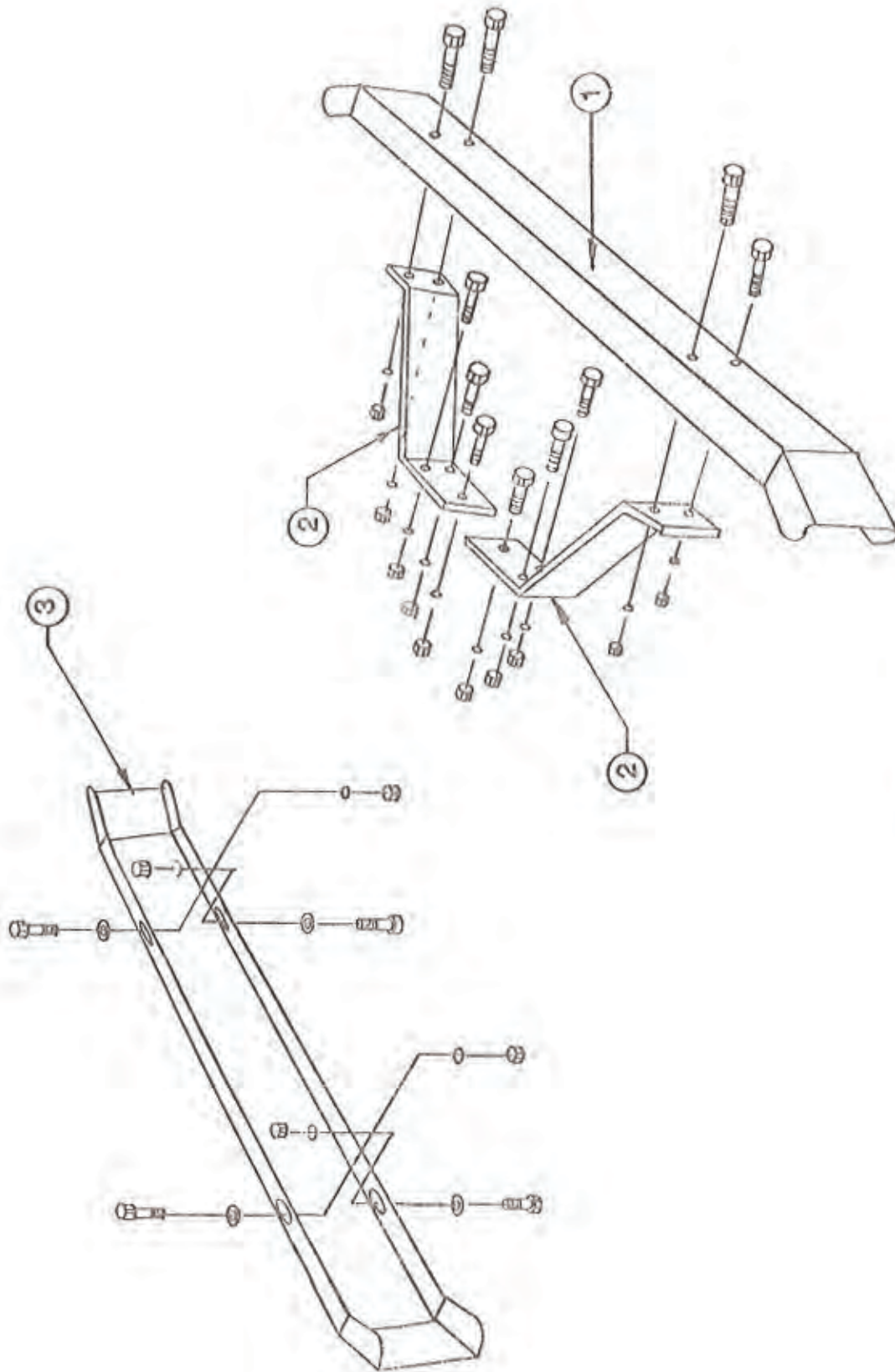
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433065	1	Canopy Frame
		8	Capscrew 1" NC x 2 1/12"
		8	Lockwasher 1"
		8	Hex Nut 1" NC
2	433466	1	Canopy Top
3	433309	2	Neoprene Strip 1/8" x 2" x 45"
4	433312	2	Neoprene Strip 1/8" x 2" x 51 1/2"
		4	Capscrew 5/8" NC x 4
		4	Flatwasher 5/8"
		4	Lockwasher 5/8"
		4	Hex Nut 5/8" NC



COWLING ASSY.

COWLING ASSY

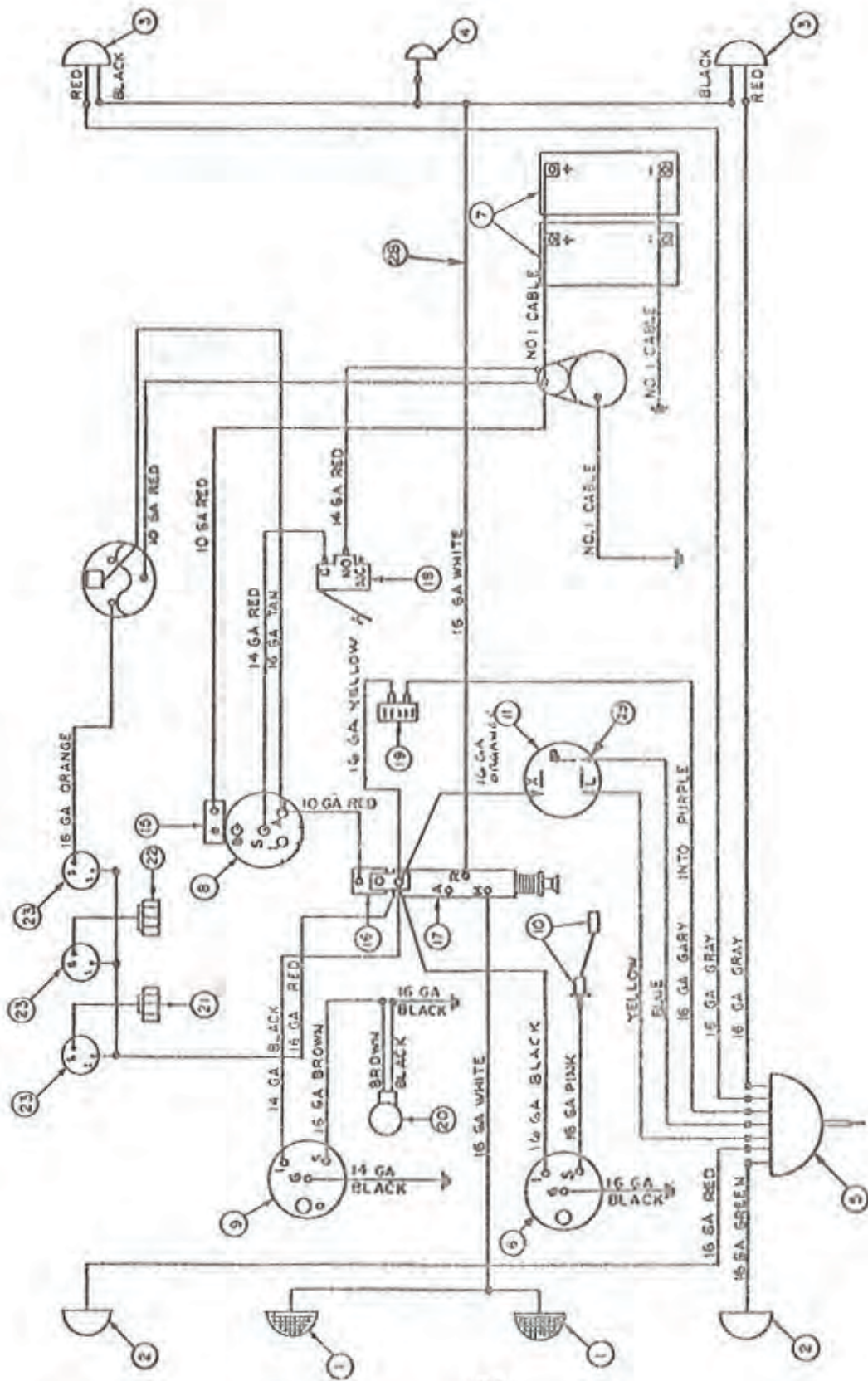
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433109	1	Cowling Weldment
2	433434	1	Cowling Hinge Mount Weldment (L.H.)
		2	Capscrew 5/16" NC x 2"
		2	Lockwasher 5/16"
		2	Hex Nut 5/16" NC
3	433557	2	Hinge Pin (Cowling)
		2	Capscrew 5/16" NC x 1/2"
		2	Lockwasher 5/16"
4	433111	2	Cowling Mount
		4	Capscrew 3/8" NC x 1 3/4"
		4	Lockwasher 3/8"
		4	Hex Nut 3/8" NC
5	433374	2	Bolt Anchor Bracket
		2	Capscrew 5/16" NC x 1 1/2"
		2	Lockwasher 5/16"
		2	Hex Nut 5/16" NC
6	433358	2	Rubber Hook
7	433359	2	Hood Bracket
		4	Capscrew #8-32 x 1/2"
		4	Lockwasher #8
		4	Hex Nut #8-32
8		1	Ring Pin
9	433707	1	Cowling Hinge Mount Weldment (R.H.)
		2	Capscrew 5/16" NC x 2"
		2	Lockwasher 5/16"
		2	Hex Nut 5/16" NC



BUMPERS / FRONT & REAR

BUMPERS/FRONT & REAR

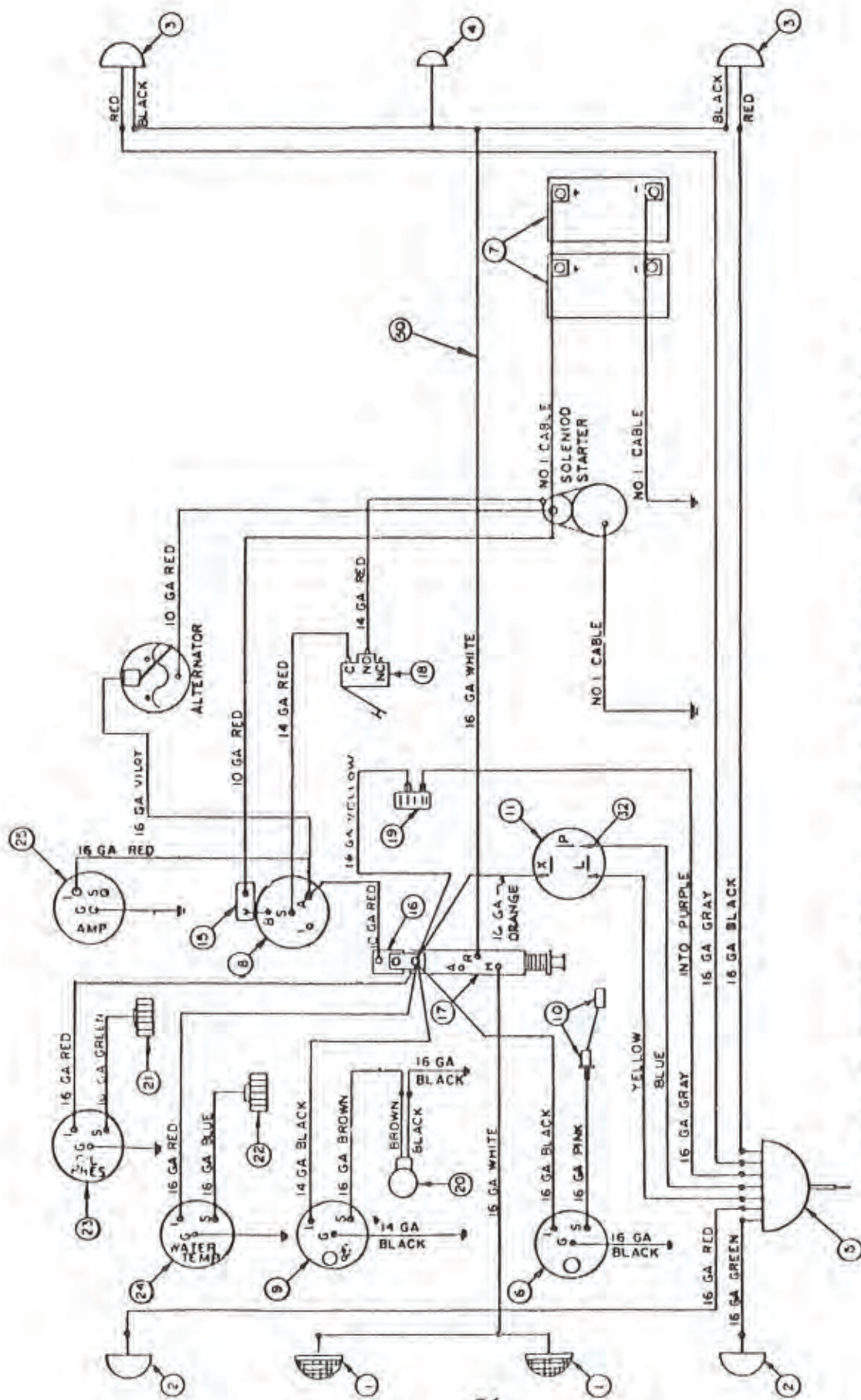
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433078	1	Bumper, Front
		4	Capscrew 1/2" NC x 1 1/4"
		4	Flatwasher 1/2" ID 1 3/8" OD
		4	Lockwasher 1/2"
		4	Hex Nut 1/2" NC
2	433066	2	Mount, Front Bumper
		6	Capscrew 1/2" NC x 1 1/2"
		6	Lockwasher 1/2"
		6	Hex Nut 1/2" NC
3	433077	1	Bumper, Rear
		4	Capscrew 1/2" NC x 1 1/2"
		4	Lockwasher 1/2"
		4	Hex Nut 1/2" NC
		4	Flatwasher 1/2"



ELECTRICAL DIAGRAM / INDICATOR LIGHTS

ELECTRICAL ASSY /INDICATOR LIGHTS

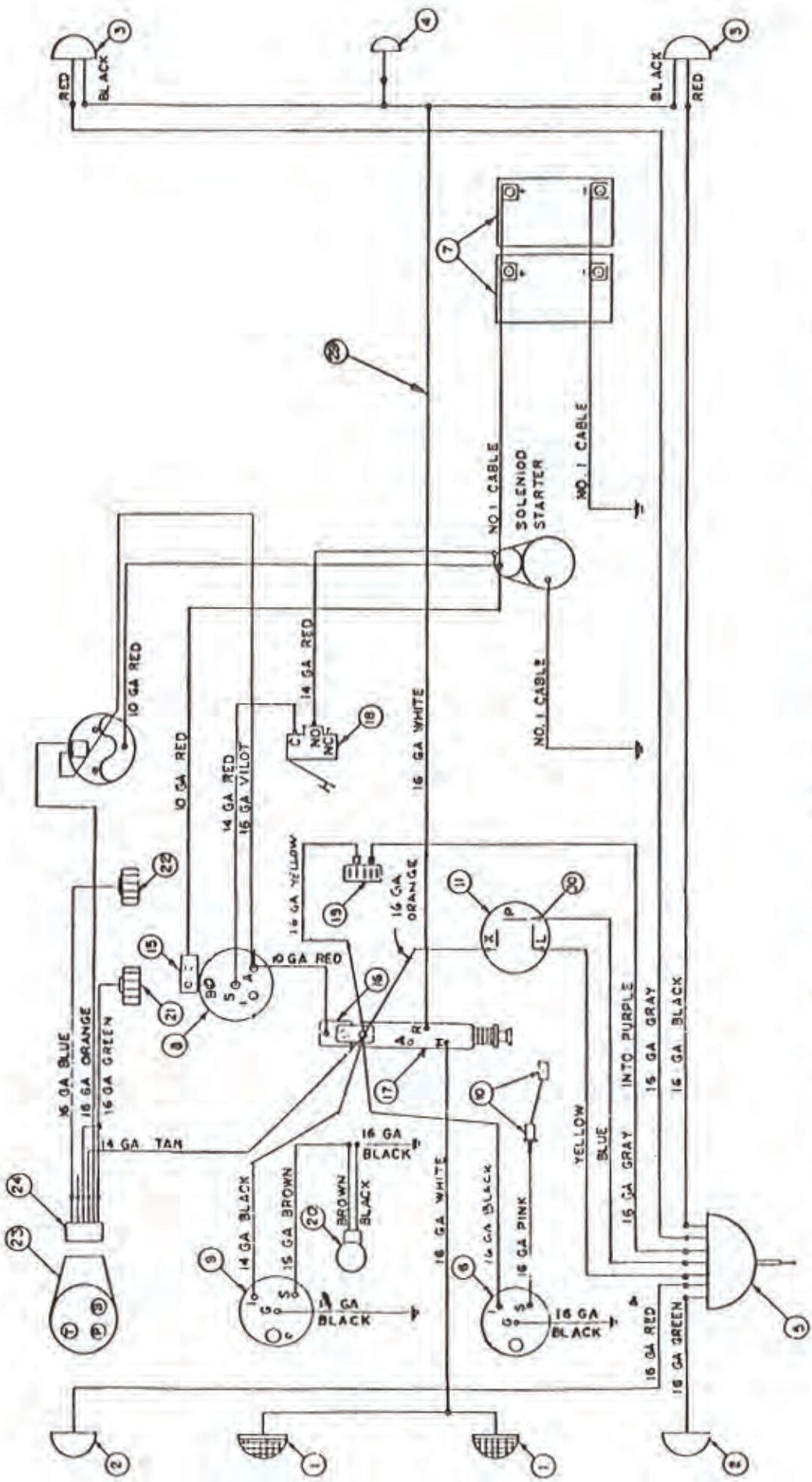
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433158	2	Head Lamps
2	433157	2	Turn Signal Lamps
3	433156	2	Tail/Turn Lamps
4	433160	1	License Plate Lamp
5	433159	1	Turn Indicator, Switch
6	433061	1	Fuel Gauge
7	433485	2	Battery, 12 Volt
8	433348	1	Ignition Switch
9	433062	1	Tachometer
10	433480	1	Sending Unit, Fuel Gauge
11	433202	1	Turn Indicator, Flasher
15	433598	1	Breaker, 40 AMP In-Line
16	433597	1	Breaker, 30 AMP In-Line
17	433441	1	Light Switch
18	433832	1	Neutral Safety Switch NC (Eaton Pump)
19	433402	1	Brake Light Switch
20	433063	1	Pulse Generator, Tachometer
21	433167	1	Oil Pressure Sender Switch
22	433168	1	Water Temperature Sender Switch
23	433432	3	Indicator Lights-Red 12 volt
24	433503	2	Battery Bracket (Not Shown)
25	433507	4	J-Bolts (Not Shown)
26	433287	48"	Battery Cable, Positive (Not Shown)
27	433291	30"	Battery Cable, Negative (Not Shown)
28	433910	1	Wiring Harness - Cummins Diesel
29	433438	1	Connector Flasher
30	713075	1	Ground Strap (Not Shown)



ELECTRICAL DIAGRAM / GAUGES

ELECTRICAL ASSY /GAUGES

<u>REF.</u> <u>NO</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433158	2	Head Lamps
2	433157	2	Turn Signal Lamps
3	433156	2	Tail/Turn Lamps
4	433160	1	License Plate Lamp
5	433159	1	Turn Indicator, Switch
6	433061	1	Fuel Gauge
7	433485	2	Battery, 12 Volt
8	433348	1	Ignition Switch
9	433062	1	Tachometer
10	433480	1	Sending Unit, Fuel Gauge
11	433202	1	Turn Indicator, Flasher
15	433598	1	Breaker, 40 AMP In-Line
16	433597	1	Breaker, 30 AMP In-Line
17	433441	1	Light Switch
18	433832	1	Neutral Safety Switch NC (Eaton Pump)
19	433402	1	Brake Light Switch
20	433063	1	Pulse Generator, Tachometer
21	433455	1	Oil Pressure Sender Switch
22	433456	1	Water Temperature Sender Switch
23	433429	1	Oil Pressure Gauge 1/8" NPT
24	433430	1	Water Temperature Gauge 3/8" NPT
25	433826	1	Volt Meter
26	433503	2	Battery Bracket (Not Shown)
27	433507	4	J-Bolts (Not Shown)
28	433287	48"	Battery Cable, Positive (Not Shown)
29	433291	30"	Battery Cable, Negative (Not Shown)
30	433910	1	Wiring Harness - Cummins Diesel
31	433902	1	Ground Strap
32	433438	1	Connector Flasher



ELECTRICAL DIAGRAM / CLUSTER LIGHTS

ELECTRICAL ASSY/CLUSTER LIGHTS

<u>REF.</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433158	2	Head Lamps
2	433157	2	Turn Signal Lamps
3	433156	2	Tail/Turn Lamps
4	433160	1	License Plate Lamp
5	433159	1	Turn Indicator, Switch
6	433061	1	Fuel Gauge
7	433485	2	Battery, 12 Volt
8	433348	1	Ignition Switch
9	433062	1	Tachometer
10	433480	1	Sending Unit, Fuel Gauge
11	433202	1	Turn Indicator, Flasher
15	433598	1	Breaker, 40 AMP In-Line
16	433597	1	Breaker, 30 AMP In-Line
17	433441	1	Light Switch
18	433832	1	Neutral Safety Switch NC (Eaton Pump)
19	433402	1	Brake Light Switch
20	433063	1	Pulse Generator, Tachometer
21	433167	1	Oil Pressure Switch
22	433168	1	Water Temperature Switch
23	433072	1	Indicator Lights, Cluster
24	433438	1	Indicator Lights, Plug-In
25	433503	2	Battery Bracket (Not Shown)
26	433507	4	J-Bolts (Not Shown)
27	433287	48"	Battery Cable, Positive (Not Shown)
28	433291	30"	Battery Cable, Negative (Not Shown)
29	433910	1	Wiring Harness - Cummins Diesel
30	433438	1	Connector - Flasher
31	433902	1	Ground Strap (Not Shown)

DECALS

<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
430269	1	Decal: Diesel
433708	1	Decal: Broom Pressure Control
430307	1	Decal: Parking Brake
430310	1	Decal: Transmission Control Lever
433572	1	Decal: Operating Instructions
433573	1	Decal: Sweeping Instructions
433574	1	Decal: Hydraulic Oil
433912	2	Decals: Maxi-Sweep (Cowling)
433577	1	Decals: 6330 Strip Set (Frame Rails)
433252	2	Grip Tape, Broom Cover 10 1/2" x 24"
433579	2	Grip Tape, Floor Plate 13" x 24"
433580	2	Grip Tape, Fender 5" x 10"
433581	1	Grip Tape, Brake Pedal 2" x 6"
433582	1	Grip Tape, Clutch Pedal 3" x 6 1/4"
433201	2	Slow Moving Sign
433911	1	Serial Number Plate
433709	1	Decal: Broom On-Off
433710	1	Decal: Broom Direction
433913	2	Decal: 6300 (Cowling)
433914	1	Decal: AB (Front Frame)

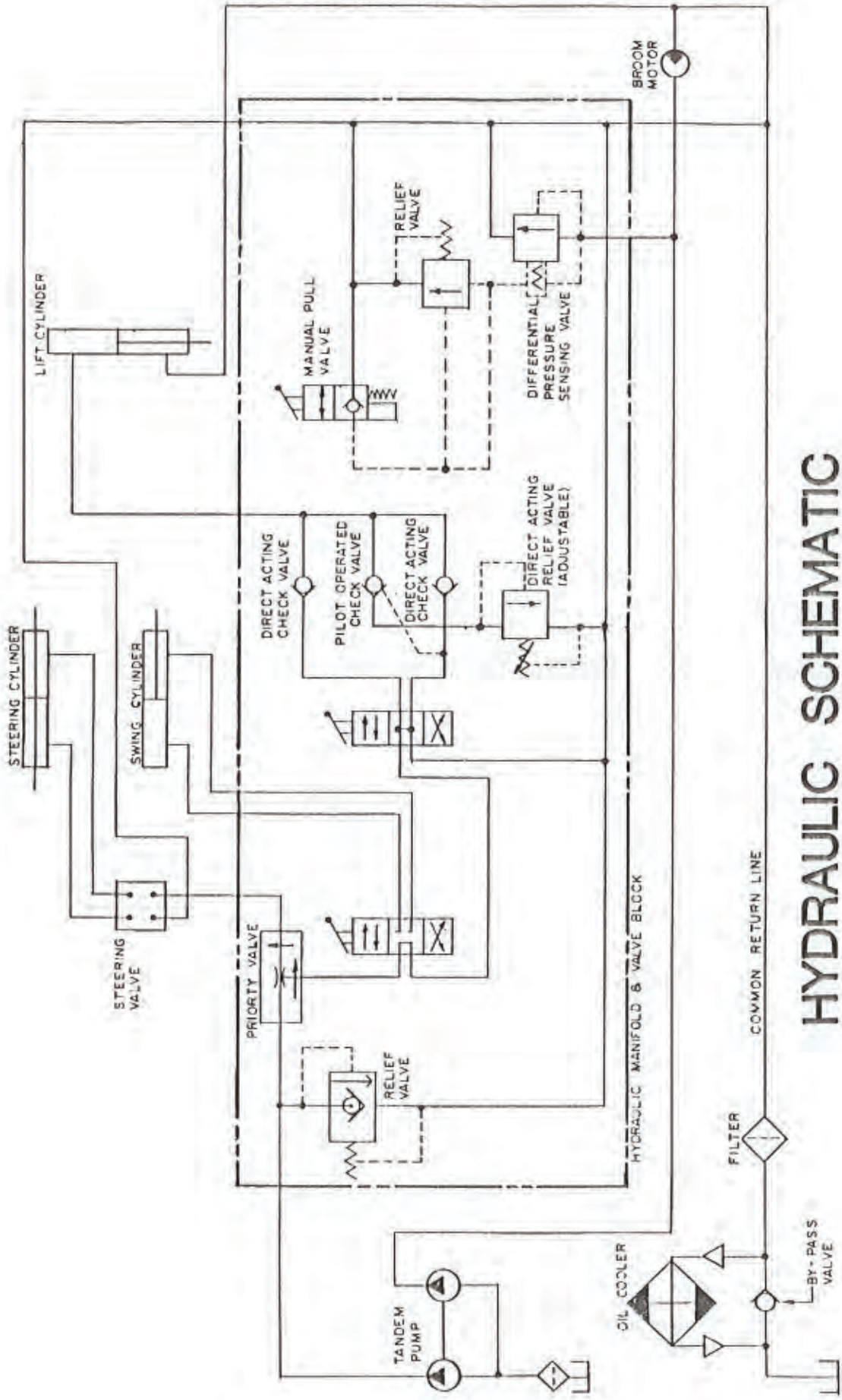
BROOM COUNTERBALANCE

Your new MAXI-SWEEP Model 6330 Sweeper is equipped with an Exclusive Hydraulic Counter Balance System for the Brush.

All other sweepers use springs, or no Counterbalance. The Brush should produce a "PATTERN" of 6" to 8" when lowered to "FLOAT" position (operating position). Contrary to some opinion more pressure on the brush only produces - MUCH GREATER BRUSH WEAR - Less Effective sweeping - Greater Power Requirements.

The Round Knob to the right of the raise-lower lever is the COUNTER BALANCE CONTROL.

1. To operate ANY of the broom Controls the engine rpm MUST be above 1500 rpm.
2. Turning the COUNTER BALANCE KNOB to the right (clockwise) increases the counterbalance effect the same as tightening a spring (lessens the broom pressure on the ground). It is possible to increase the counterbalance to the point the broom will not lower.
3. With the engine rpm at 2000, the broom drive engaged, the sweeper stationary, lower the brush into float position. Observe pattern on ground, adjust counterbalance until 6" to 8" pattern is obtained. Less pattern is best as brush will "Load" with travel.



HYDRAULIC SCHEMATIC

(VEHICLE DRIVE NOT SHOWN)

OPERATOR'S MANUAL 6300 MAXI-SWEEP

HYDRAULIC SYSTEM:

A brief description of the Hydraulic system is as follow:
Hydraulic oil is contained in a 25 gallon reservoir located in the left side of the engine compartment. Oil leaves the hydraulic reservoir through a 100 mesh filter. From there it flows through two (2) suction lines and into a tandem gear pump which is driven from the engine. Oil from the small section of the tandem pump is forced into a pressure line and flows to the hydraulic manifold valve block assembly. The valve block has a factory set relief valve to protect the system. The oil flows on to a priority valve which directs three (3) gallons per minute to the power steering system. From the power steering system, oil flows back to a common return line.

The excess oil from the small pump (after the priority is satisfied) flows on to the dual valve sections that are bolted between the valve blocks. An engine speed of approximately 1500-1600 rpm is required to satisfy the priority demand. The valve section nearest the operator controls the angle of the broom. This valve section is spring returned to the center position. The valve section furthest from the operator raises and lowers the broom. Moving the handle toward the rear of the machine raises the broom. Moving the handle forward to the detent position lowers the broom and allows it to "float" during the sweeping operation. The round knob nearby controls the pressure on a direct acting relief valve, which along with two (2) direct acting and one (1) pilot operated check valve adjusts and maintains the broom pressure on the surface being swept. Instructions for adjusting the broom counterbalance system are included elsewhere in this manual. Oil leaves the dual valve sections and the lower end of the broom lift cylinder and joins the common return line passing through a medium pressure return filter, and oil cooler or oil cooler by-pass valve and on to the oil reservoir.

Oil from the large section of the tandem pump is forced into a pressure line and flows to the hydraulic manifold/valve block assembly. The hydraulic manifold/value block assembly contains a pilot operated differential pressure sensing valve which is used to divert oil to the common return line when the broom motor is off. Closing the differential pressure sensing valve blocks the oil's path to the common return line forcing the oil to go through the broom motor to the common return line and on through the return filter and oil cooler back to the oil reservoir. The broom is turned on and off with the toggle operated manual pull valve on the operator's

right, toggle up is broom off, down is broom on. The broom circuit is protected by a factory set relief valve.

The hydraulic transmission offers infinitely variable control of speed and direction. The operator has complete control of the MAXI-SWEEP with the control lever or the Master Clutch foot pedal for starting, stopping, in forward or reverse motion.

Control of the variable piston displacement pump is the key to controlling the MAXI-SWEEP. Prime mover horse-power is transmitted by the pump when the operator moves the control lever. When the variable piston pump swash plate is tilted, a positive stroke to the pistons is created. This flow is transferred through high pressure lines to the motor. The ratio of the volume of flow from the pump to the displacement of the motor will determine the speed of the motor output shaft. Moving the control lever to the opposite side of neutral, reverses oil flow from the pump and results in opposite rotation of the output shaft on the hydraulic motor. Speed of the output shaft is controlled by adjusting the displacement flow of the transmission. Load (working pressure) is determined by the external conditions (grade, ground conditions etc.) and this establishes the demand on the system.

Pump and motor are contained in separate housings. All valves required for a closed loop circuit are included in either the pump or motor assemblies. Oil is drawn from the 25 gallon reservoir through a suction filter by the charge pump and is circulated in a closed loop through the pump and motor. A certain amount of internal leakage naturally occurs in the pump and motor. This leakage is used to lubricate and cool the pump and motor prior to returning the oil reservoir through the case drain hoses.

As in all hydraulic systems, reliability depends upon clean and cool oil. The inlet screen to the pumps should be removed with the cover plate on the rear end of the reservoir and cleaned the first 100 hours of operation and once annually thereafter. The return and suction filters should be replaced the first 50 hours of operation and then every 250 hours thereafter.

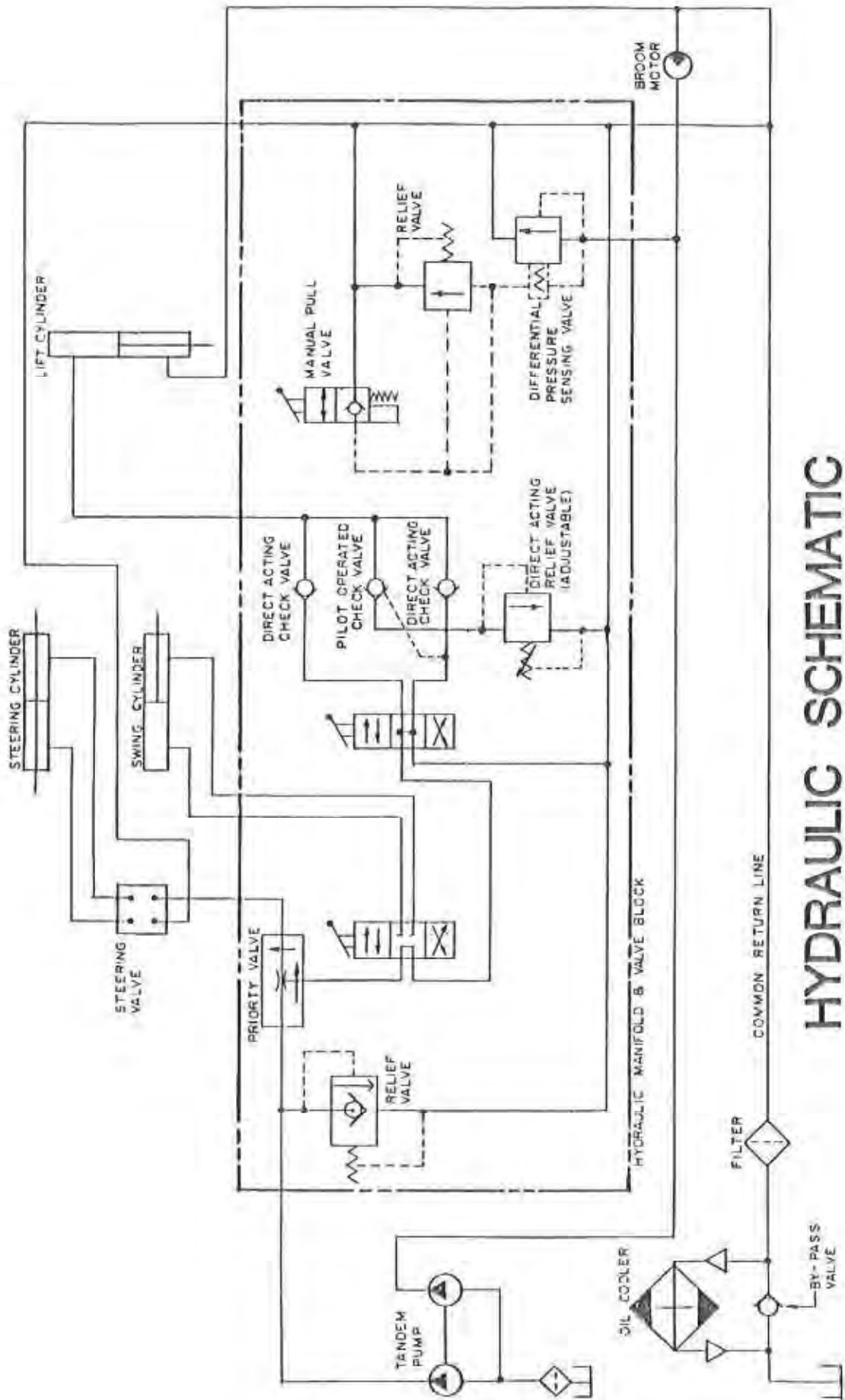
BROOM COUNTERBALANCE

Your new MAXI-SWEEP Model 6330 Sweeper is equipped with an Exclusive Hydraulic Counter Balance System for the Brush.

All other sweepers use springs, or no Counterbalance. The Brush should produce a "PATTERN" of 6" to 8" when lowered to "FLOAT" position (operating position). Contrary to some opinion more pressure on the brush only produces - MUCH GREATER BRUSH WEAR - Less Effective sweeping - Greater Power Requirements.

The Round Knob to the right of the raise-lower lever is the COUNTER BALANCE CONTROL.

1. To operate ANY of the broom Controls the engine rpm MUST be above 1500 rpm.
2. Turning the COUNTER BALANCE KNOB to the right (clockwise) increases the counterbalance effect the same as tightening a spring (lessens the broom pressure on the ground). It is possible to increase the counterbalance to the point the broom will not lower.
3. With the engine rpm at 2000, the broom drive engaged, the sweeper stationary, lower the brush into float position. Observe pattern on ground, adjust counterbalance until 6" to 8" pattern is obtained. Less pattern is best as brush will "Load" with travel.



HYDRAULIC SCHEMATIC

(VEHICLE DRIVE NOT SHOWN)

OPERATOR'S MANUAL 6300 MAXI-SWEEP

HYDRAULIC SYSTEM:

A brief description of the Hydraulic system is as follow:
Hydraulic oil is contained in a 25 gallon reservoir located in the left side of the engine compartment. Oil leaves the hydraulic reservoir through a 100 mesh filter. From there it flows through two (2) suction lines and into a tandem gear pump which is driven from the engine. Oil from the small section of the tandem pump is forced into a pressure line and flows to the hydraulic manifold valve block assembly. The valve block has a factory set relief valve to protect the system. The oil flows on to a priority valve which directs three (3) gallons per minute to the power steering system. From the power steering system, oil flows back to a common return line.

The excess oil from the small pump (after the priority is satisfied) flows on to the dual valve sections that are bolted between the valve blocks. An engine speed of approximately 1500-1600 rpm is required to satisfy the priority demand. The valve section nearest the operator controls the angle of the broom. This valve section is spring returned to the center position. The valve section furthest from the operator raises and lowers the broom. Moving the handle toward the rear of the machine raises the broom. Moving the handle forward to the detent position lowers the broom and allows it to "float" during the sweeping operation. The round knob nearby controls the pressure on a direct acting relief valve, which along with two (2) direct acting and one (1) pilot operated check valve adjusts and maintains the broom pressure on the surface being swept. Instructions for adjusting the broom counterbalance system are included elsewhere in this manual. Oil leaves the dual valve sections and the lower end of the broom lift cylinder and joins the common return line passing through a medium pressure return filter, and oil cooler or oil cooler by-pass valve and on to the oil reservoir.

Oil from the large section of the tandem pump is forced into a pressure line and flows to the hydraulic manifold/valve block assembly. The hydraulic manifold/value block assembly contains a pilot operated differential pressure sensing valve which is used to divert oil to the common return line when the broom motor is off. Closing the differential pressure sensing valve blocks the oil's path to the common return line forcing the oil to go through the broom motor to the common return line and on through the return filter and oil cooler back to the oil reservoir. The broom is turned on and off with the toggle operated manual pull valve on the operator's

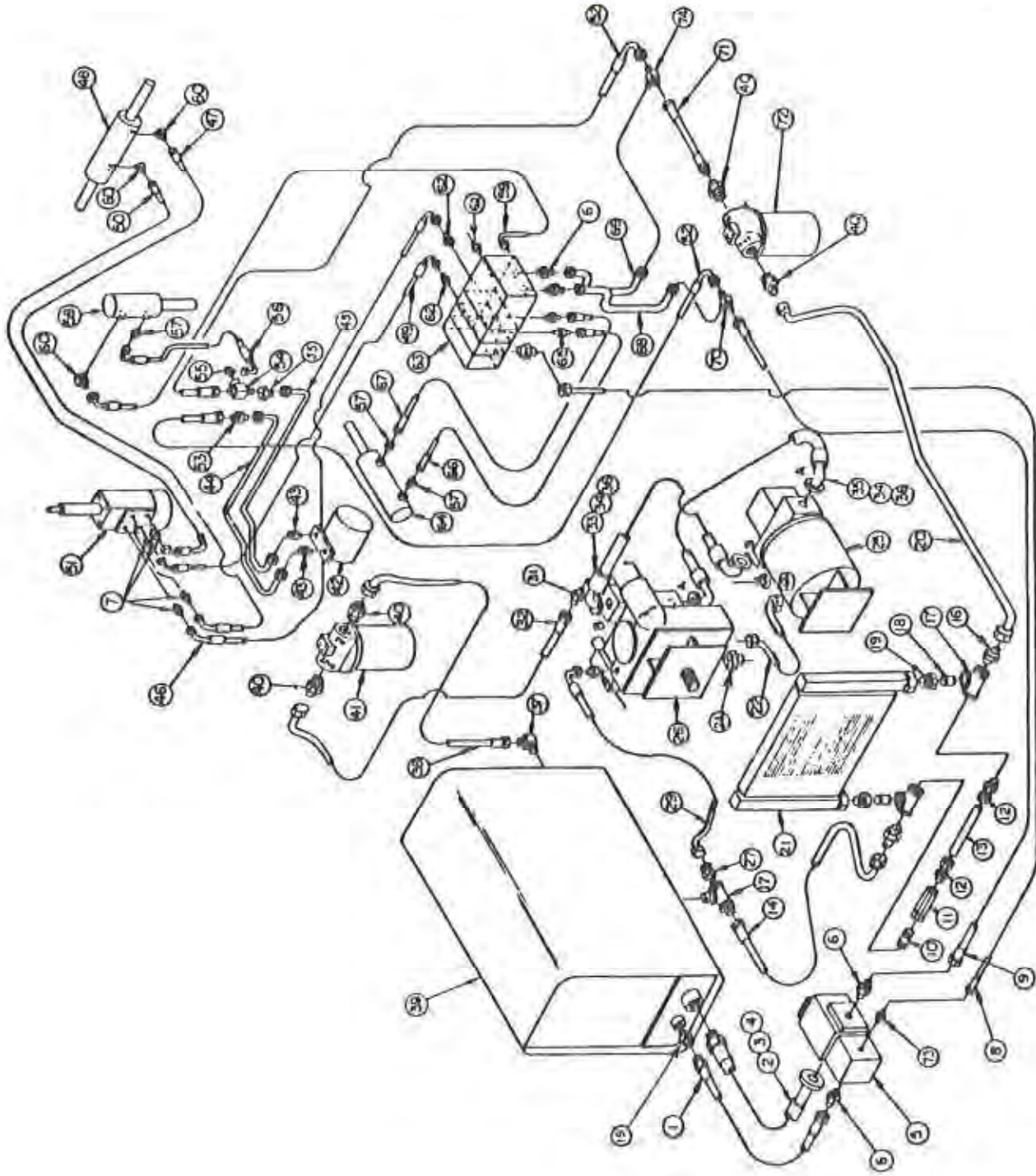
right, toggle up is broom off, down is broom on. The broom circuit is protected by a factory set relief valve.

The hydraulic transmission offers infinitely variable control of speed and direction. The operator has complete control of the MAXI-SWEEP with the control lever or the Master Clutch foot pedal for starting, stopping, in forward or reverse motion.

Control of the variable piston displacement pump is the key to controlling the MAXI-SWEEP. Prime mover horse-power is transmitted by the pump when the operator moves the control lever. When the variable piston pump swash plate is tilted, a positive stroke to the pistons is created. This flow is transferred through high pressure lines to the motor. The ratio of the volume of flow from the pump to the displacement of the motor will determine the speed of the motor output shaft. Moving the control lever to the opposite side of neutral, reverses oil flow from the pump and results in opposite rotation of the output shaft on the hydraulic motor. Speed of the output shaft is controlled by adjusting the displacement flow of the transmission. Load (working pressure) is determined by the external conditions (grade, ground conditions etc.) and this establishes the demand on the system.

Pump and motor are contained in separate housings. All valves required for a closed loop circuit are included in either the pump or motor assemblies. Oil is drawn from the 25 gallon reservoir through a suction filter by the charge pump and is circulated in a closed loop through the pump and motor. A certain amount of internal leakage naturally occurs in the pump and motor. This leakage is used to lubricate and cool the pump and motor prior to returning the oil reservoir through the case drain hoses.

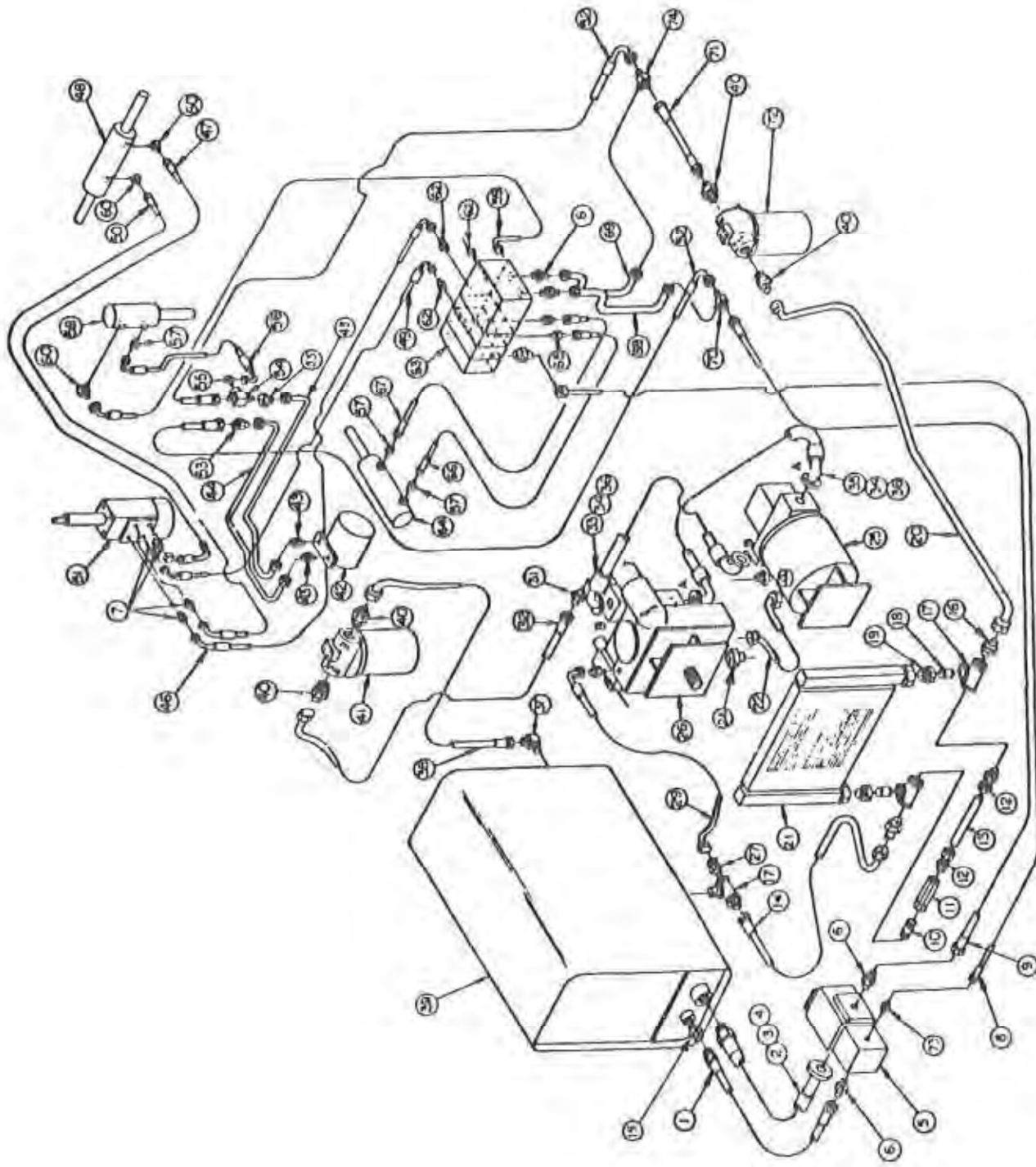
As in all hydraulic systems, reliability depends upon clean and cool oil. The inlet screen to the pumps should be removed with the cover plate on the rear end of the reservoir and cleaned the first 100 hours of operation and once annually thereafter. The return and suction filters should be replaced the first 50 hours of operation and then every 250 hours thereafter.



HYDRAULIC SYSTEM

HYDRAULIC SYSTEM

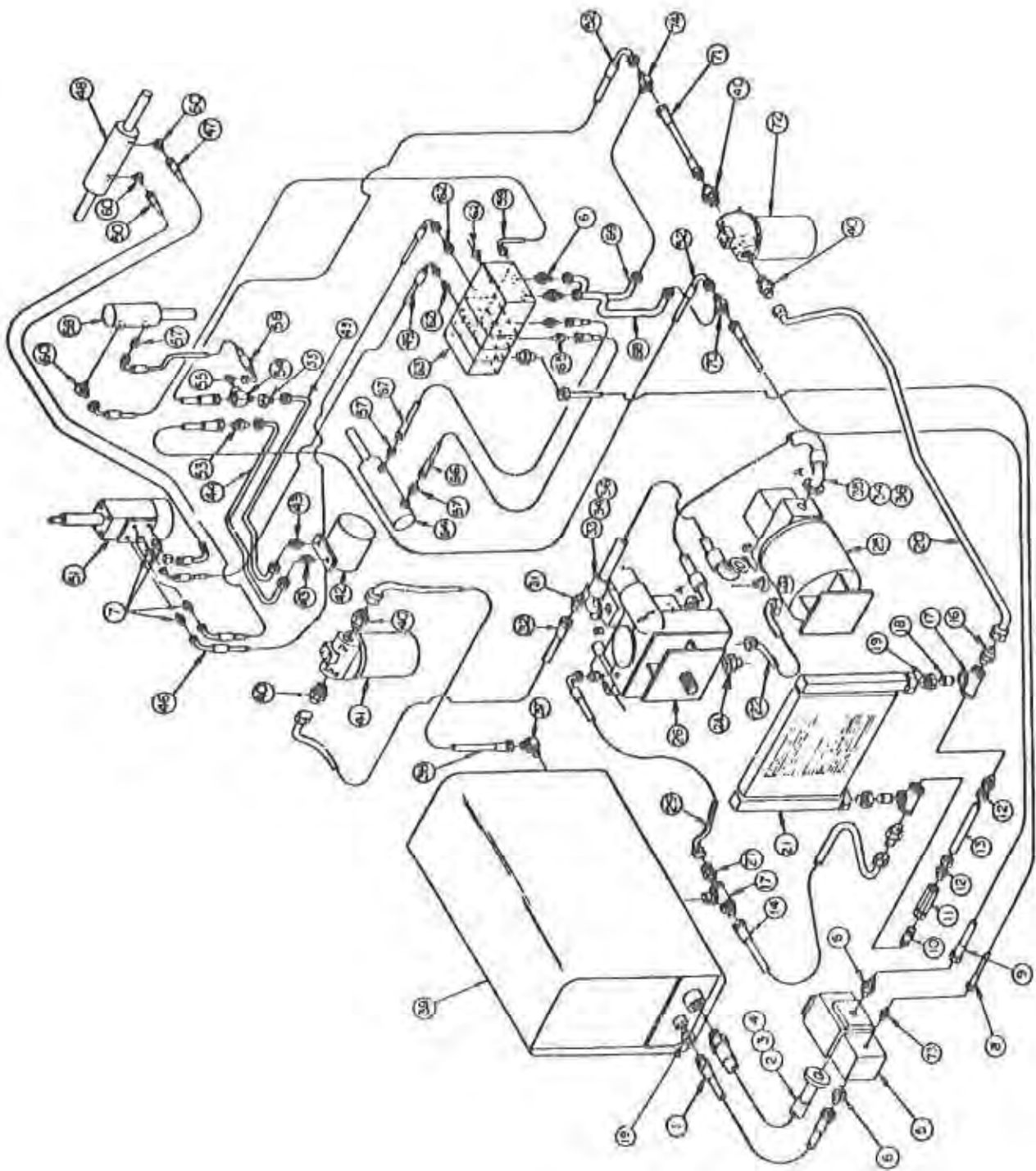
<u>REF. NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433534	1	Hose Assy 3/4" x 37"
2	433548	1	Hose Assy 1 1/4" x 32 3/4"
3	433567	1	O-Ring 1 7/8" x 1/8"
4	433549	1	Split Flange 24 FH
5	433154	1	Pump
6	433550	4	Adapter 12MB -12MJ
	433571	4	O-Ring
7	433857		Adapter 8MB - 6MJ
	433569	3	O-Ring
8	433537	1	Hose Assy 3/8" x 125
9	433529	1	Hose Assy 3/4" x 91 1/2"
10	L001504-14	1	Nipple 3/4" x 2 1/2" SCH 40 BLK
11	433226	1	Check Valve, Heat Exchanger
12	433262	2	Tube Fitting, Heat Exchanger
13	433465	1	Hydraulic Tube, Heat Exchanger
14	433890	1	Hose Assy 1 x 34
15	433846	2	Tee, 3/4 FP - 1 FP Line
16	433895	2	Adapter 16MP - 16MJ
17	433849	1	Tee 16MP - 16 MJ Branch
18	433852	2	Nipple 1" x Close Sch 40 Blk.
19	433900	2	Adapter 12MP - 12MJ Long
20	433891	1	Hose Assy 1 x 48"
21	433513	1	Heat Exchanger
22	433725	1	Hose Assy 1/2" x 22" - 180° (Eaton)
24	433859	2	Adapter 12MB - 8MJ
	433571	1	O-Ring
25	433115	1	Hydraulic Motor (Eaton)
26	433116	1	Variable Pump w/Std. Service Cntl. (Eaton)
27	433830	1	Adapter 16 FJ - 8MJ
29	433547	1	Hose Assy 1/2" x 53"
31	433858	1	Adapter 16MB - 12MJ (Eaton)
32	433854	1	Hose Assy 3/4" x 51" (Eaton)
33	433182	1	Hose Assy 1" x 52 1/2"
34	430046	4	O-Ring 1 5/16" x 1/8"



HYDRAULIC SYSTEM

HYDRAULIC SYSTEM

<u>REF</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
35	433183	1	Hose Assy 1" x 66 3/8"
36	433184	4	Split Flange 16 FH
37	433855	5	Adapter 12MP - 12MJ 90°
38	433853	1	Hose Assy 1" x 18 1/2"
39	433037	1	Hydraulic Oil Tank
	433038	2	Strap, Hydraulic Tank
40	433851	4	Adapter 20MP - 16MJ
41	433108	1	Suction Filter
42	433425	1	Motor, Broom (Char-Lynn)
43	400265	2	Adapter, 10MB - 10MJ
	433570		O-Ring
44	433722	1	Hydraulic Tube Brm Mtr Press Line/Charlynn
45	433723	1	Hydraulic Tube Brm Mtr Return Line/Charlynn
46	433540	1	Hose Assy 3/8" x 75"
47	433539	1	Hose Assy 3/8" x 140"
48	433092	1	Cylinder Power Steering
	433092-1	REF	Seal Kit
49	433541	1	Hose Assy 3/8" x 74"
50	433538	1	Hose Assy 3/8" x 134"
51	433117	1	Steering Valve
	433118	REF	Column, Steering - 6" (Not Shown)
	433119	REF	Nut, Steering Wheel (Not Shown)
	433263	REF	Spacer, Steering Valve (Not Shown)
52	433898	2	Hose Assy 3/4" x 74 1/2"
53	433892	1	Adapter 10MJ - 12MJ
54	433893	1	Adapter Tee 8MJ - 12MJ - 12MJ
55	433894	1	Adapter 12FJ - 10MJ
56	433545	1	Hose Assy 3/8" x 20
57	400294	3	Adapter 6MP - 6MJ
58	433090	1	Cylinder, Broom Lift
	433090-1	REF	Seal Kit
59	433899	1	Hose Assy 3/8" x 86"

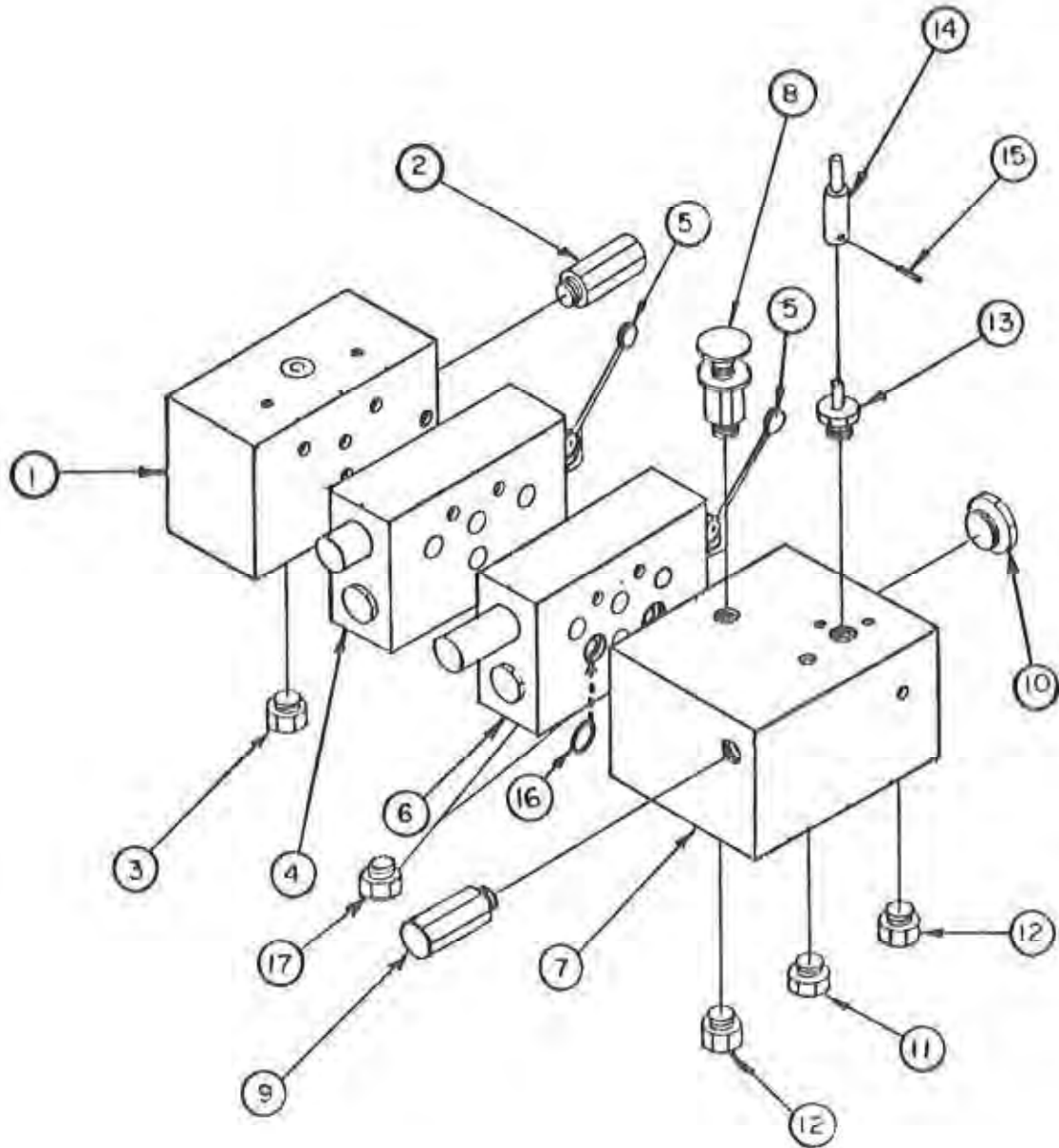


HYDRAULIC SYSTEM

HYDRAULIC SYSTEM

<u>REF NO.</u>	<u>PART NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
60	400250	3	Adapter 6MP - 6MJ 90°
61	433304	2	Adapter 6MB - 6MJ 90°
	433568	2	O-Ring
62	433305	4	Adapter 6MB - 6MJ
	433568	2	O-Ring
63	433134	1	Valve Block Assy
64	433091	1	Cylinder, Broom Swing
	433091-1	REF	Seal Kit
	433570	2	O-Ring
66	433542	1	Hose Assy 3/8" x 21 1/2"
67	433543	1	Hose Assy 3/8" x 23 1/2"
68	433462	1	Hydraulic Tube, Valve Block-Press. Line
69	433463	1	Hydraulic Tube, Valve Block-Return Line
70	400244	1	Adapter 12MJT
71	433856	1	Hose Assy 1" x 23 3/4"
72	433700	1	Return Filter
	433701	1	Replacement Element
73	433344	1	Adapter 8MB - 8MJ
74	433841	1	Tee, 16MJ - 12MJ Line

VALVE BLOCK ASSY.



VALVE BLOCK ASSY

<u>REF.</u> <u>NO.</u>	<u>PART</u> <u>NUMBER</u>	<u>QTY.</u>	<u>DESCRIPTION</u>
1	433705	1	Valve Block, Steering & Lift
2	433705-1	1	Relief Valve Cartridge
3	433705-2	1	Priority Valve Cartridge
4	433135	1	Valve Section, Swing Cylinder
5	433362	2	Control Valve Handle
6	433136	1	Valve Section, Broom Float
7	433706	1	Valve Block Broom Control
8	433706-1	1	Relief Valve Cartridge w/Knob
9	433706-2	1	Relief Valve Cartridge
10	433706-3	1	Differential Pressure Sensing Valve
11	433706-4	1	Check Valve Pilot Operated Cartridge
12	433706-5	2	Check Valve Cartridge
13	433706-6	1	Manual Pull Valve
14	433468	1	Control Valve Lever
15	433333	1	Roll Pin
16		2	O-Ring
17	433897	2	Plug 8MB