



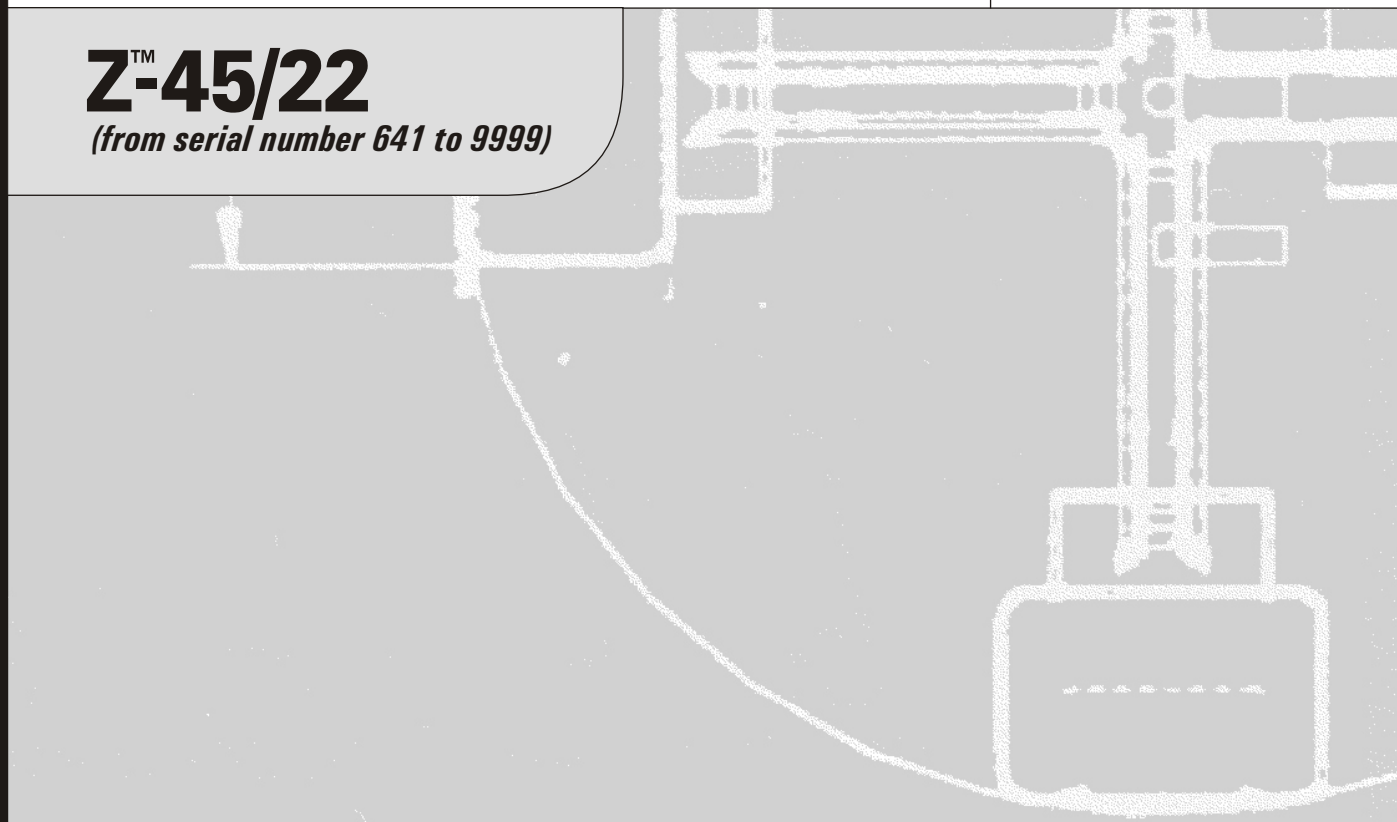
Parts Manual

Refer to inside cover for additional serial number information

Second Edition
First Printing (A2)
April 2007
Part No. 31496

ZTM-45/22

(from serial number 641 to 9999)



Genie® Z-45/22

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Genie Industries

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Important

Verify Correct Manual

This parts manual covers the Genie Z-45/22 models with the following power options introduced in 1993:

DC POWER

DIESEL

GAS/LPG

BI-FUEL (Diesel/DC)

TRI-FUEL (Gasoline/LPG/DC)

Look for the power option listed on the turntable cover or the serial number plate.



Do not use this parts manual with the Genie Z-45/22 4WD and 2WD models introduced in 1991. Compare turntable cover size and shape.

Do not read any further until you have verified that this is the correct parts manual for this machine. Contact Genie Industries if you have any questions.



How To Use This Manual

Some illustrations are labeled with the model(s) they apply to. If an illustration isn't labeled with a specific model designation, it applies to all models.

Engine models: Diesel, Gasoline/LPG, Bi-fuel, Tri-fuel

DC models: DC Power

Kubota Diesel: Diesel, Bi-fuel

Kubota Gas: Gasoline/LPG, Tri-fuel

How To Order Parts

How To Order Service Parts

Please be prepared with the following information when ordering replacement parts for your Genie product:

- Machine model number
- Machine serial number
- Genie part number
- Part description and quantity
- Purchase order number
- "Ship to" address
- Desired method of shipment
- Name and telephone number of the authorized Genie Distributor in your area

If you don't know the name of your authorized distributor, or if your area is not currently serviced by an authorized distributor, call Genie.

Genie North America

Telephone (206) 881-1800
Toll Free 800 536-1800 in U.S.A.
Fax (206) 883-3475

Genie Europe

Telephone (44) 0636-813943
Fax (44) 0636-815270

Machine Information

Model

Serial Number

Date of Purchase

Authorized Genie Distributor

Phone Number

Manuals

Genie Industries offers the following support documents for this machine:

Title	Part No.
Genie Z-45/22 Operator's Manual	31063
Genie Z-45/22 Service Manual	31497
Kubota WG-750 Workshop Manual	31741
Kubota WG-750 Operator's Manual	31740
Kubota D-905 Workshop Manual	31742
Kubota D-905 Operator's Manual	31743
EMI Safety Manual	27581
Manual of Responsibilities	
ANSI A92.5	31779

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Section One

Decals and Paint

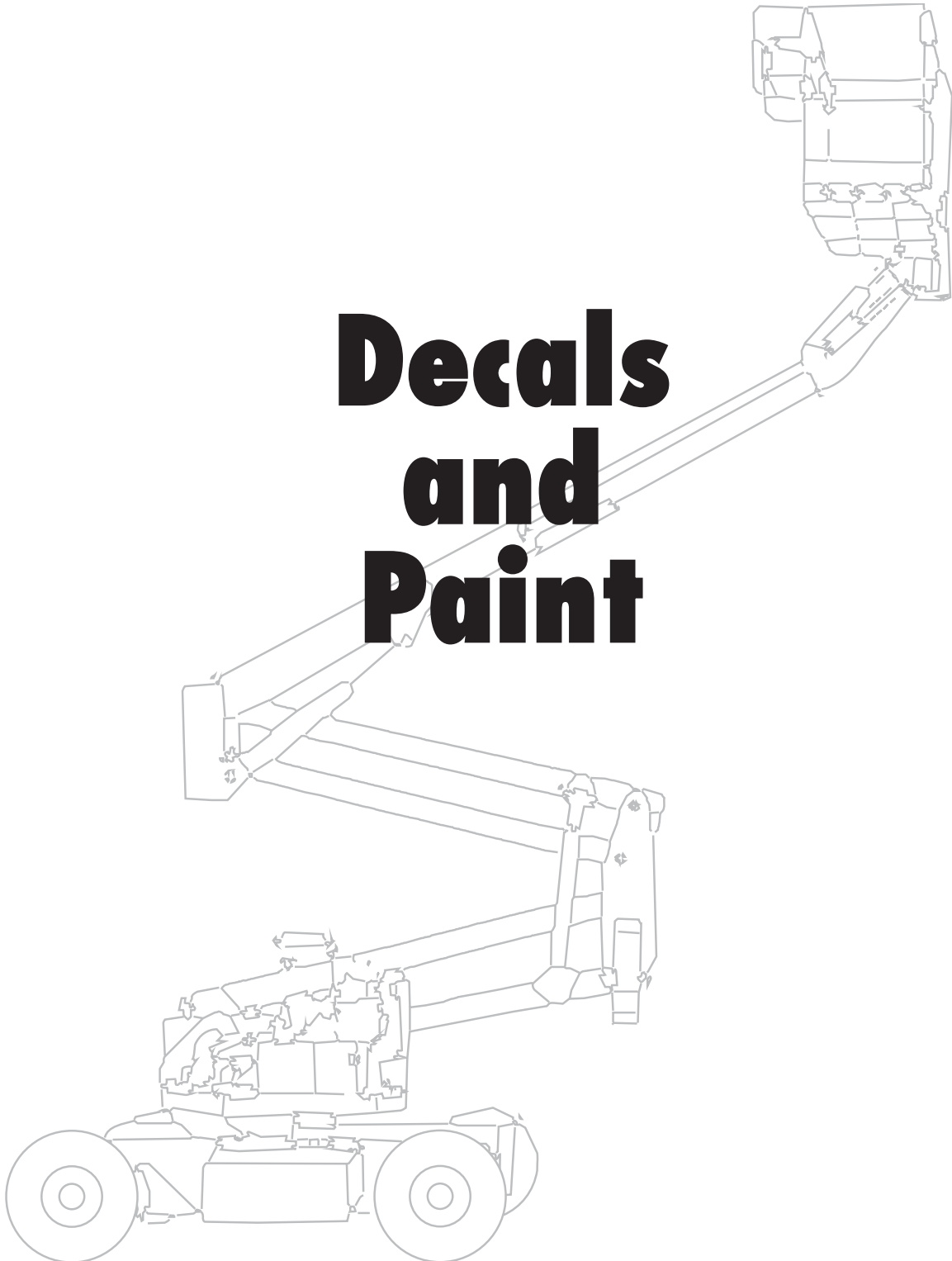


Figure 1-A

Decals and Paint - DC Models

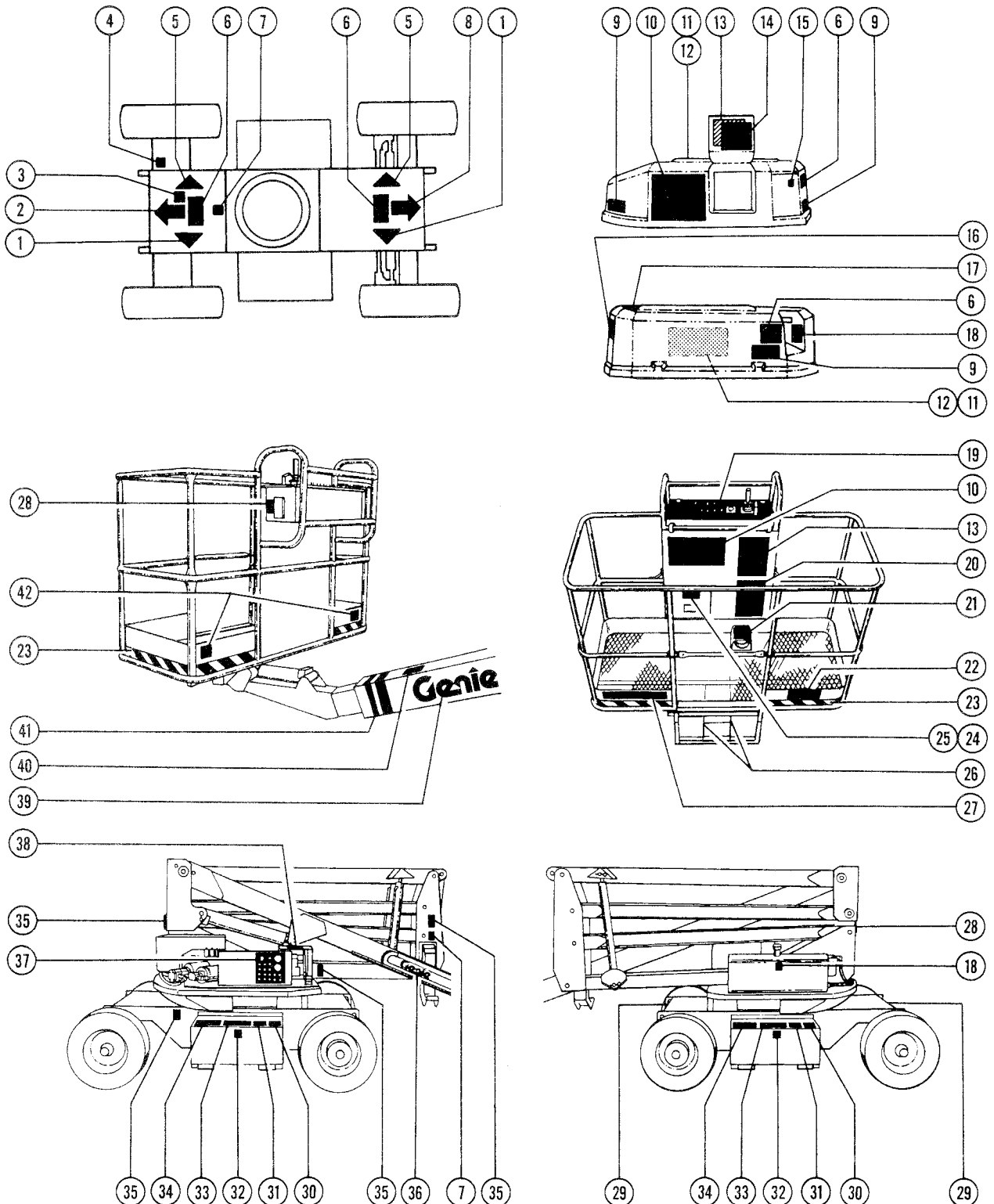


FIGURE 1-A

Index	Part No.	Description	Quantity This Figure
—	32059	Decal Kit - Safety/Instructional	—
—	32054	Decal Kit - Cosmetic	—
—	1483	Paint - Genie Blue, 1 Gallon (3.78 liters)	—
—	1484	Paint - Genie Blue, 12 Ounces (340.5 grams) Aerosol	—
—	1266	Paint - Genie Grey, 1 Gallon (3.78 liters)	—
—	1268	Paint - Genie Grey, 12 Ounces (340.5 grams) Aerosol	—
1	27207	Decal - Yellow Triangle	2
2	27205	Decal - Yellow Arrow	1
3	31066	Decal - Caution, Component damage	1
4	31508	Decal - Notice, Power to battery charger	1
5	27206	Decal - Blue Triangle	2
6	28175	Decal - Caution, Improper contact with components	4
7	28179	Decal - Danger, Do not alter limit switch	2
8	27204	Decal - Blue Arrow	1
9	25980	Decal - Danger, Electrocution hazard	3
10	29800	Decal - Danger, General Safety Rules	2
11	31163	Decal - Z	2
12	31166	Decal - Genie DC Power	2
13	29801	Decal - Notice, Pre-operation Instructions	2
14	29796	Decal - Notice, Operating Instructions, Ground	1
15	31784	Decal - Notice, Tire pressure	1
16	28173	Decal - Danger, Keep out, boom storage	1
17	29803	Decal - Notice, Hazardous materials	1
18	28157	Decal - Notice, Dexron II ATF	2
19	29799	Decal - Platform Controls	1
20	29798	Decal - Notice, Operating Instructions, Platform	1
21	31053	Decal - Notice, Foot Switch	1
22	28163	Decal - Notice, Maximum allowable side force	1

This parts list continues on page 1-5.

FIGURE 1-A

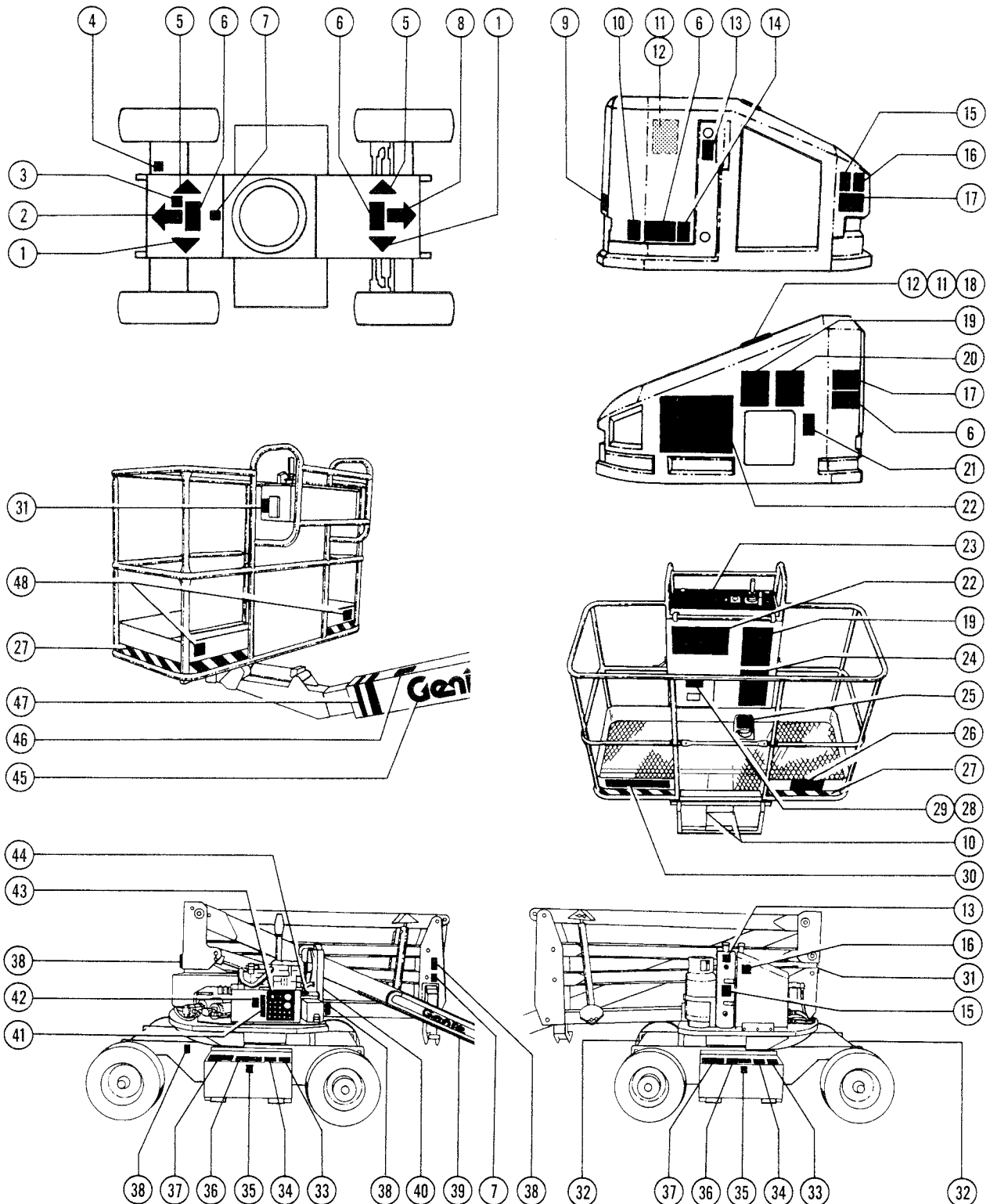


FIGURE 1-A

Index	Part No.	Description	Quantity This Figure
23	1699	Safety Tape - Black / Yellow Striped, 4' Platform	98 inches (249 cm)
—	1699	Safety Tape - Black / Yellow Striped, 5' Platform	112 inches (284 cm)
—	1699	Safety Tape - Black / Yellow Striped, 6' Platform	125 inches (318 cm)
24	28236	Decal - Warning, Improper use hazard	1
25	28176	Decal - Notice, If Safety and Operating (concealed from view)	1
26	31746	Decal - Danger, Tip-over hazard	2
27	30080	Decal - Notice, Maximum load: 500 lbs / 227 kg	1
28	28235	Decal - Notice, Power to platform, 115V AC	2
—	28174	Decal - Notice, Power to platform, 220V AC	2
29	21383	Decal - Genie Boom	2
30	29792	Decal - Notice, Battery charger operating instructions	2
31	29793	Decal - Notice, Battery connection diagram	2
32	28372	Decal - Caution, Quick disconnect	2
33	29794	Decal - Danger, Replace batteries	2
34	31052	Decal - Danger, Battery safety	2
35	28161	Decal - Warning, Crushing hazard	4
36	28043	Decal - Genie Z-45/22, 4 x 39 inches (10.2 x 99 cm)	1
37	30084	Decal - Ground Controls	1
38	31062	Decal - Notice, Manual controls	1
39	28042	Decal - Genie Z-45/22, 6 x 59 inches (15.2 x 150 cm)	1
40	28181	Decal - Warning, No step or ride	1
41	28044	Decal - White Stripe, 6 x 21.4 inches (15.2 x 54 cm)	1
42	28177	Decal - Warning, Crushing hazard	2

Figure 1-B

Decals and Paint - Engine Models

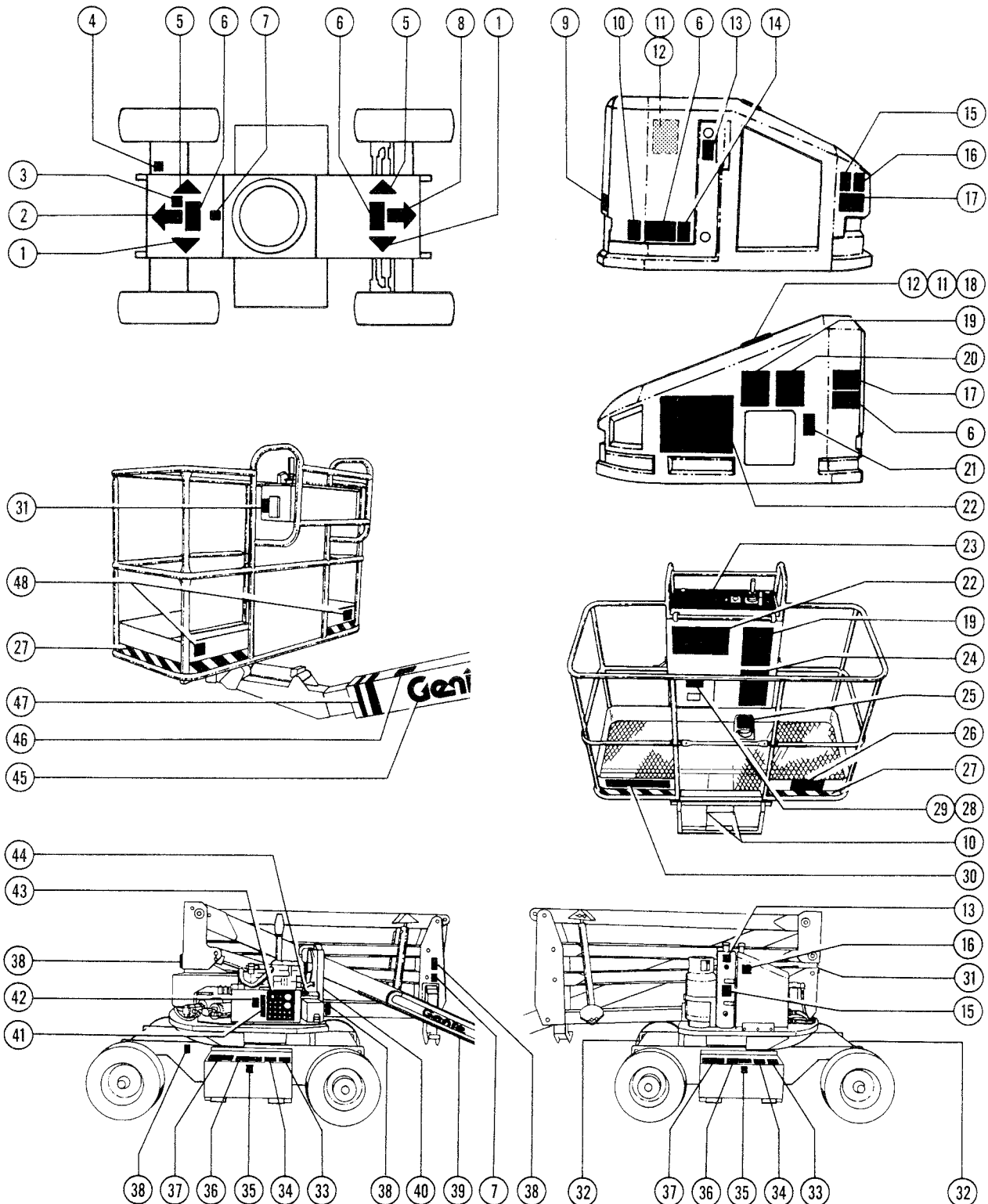


FIGURE 1-B

Index	Part No.	Description	Quantity This Figure
—	32060	Decal Kit - Safety/Instructional, Tri-fuel Models	—
—	32055	Decal Kit - Cosmetic, Tri-fuel Models	—
—	32061	Decal Kit - Safety/Instructional, Bi-fuel Models	—
—	32056	Decal Kit - Cosmetic, Bi-fuel Models	—
—	32062	Decal Kit - Safety/Instructional, Gas/LPG Models	—
—	32057	Decal Kit - Cosmetic, Gas/LPG Models	—
—	32063	Decal Kit - Safety/Instructional, Diesel Models	—
—	32058	Decal Kit - Cosmetic, Diesel Models	—
—	1483	Paint - Genie Blue, 1 Gallon (3.78 liters)	—
—	1484	Paint - Genie Blue, 12 Ounces (340.5 grams) Aerosol	—
—	1266	Paint - Genie Grey, 1 Gallon (3.78 liters)	—
—	1268	Paint - Genie Grey, 12 Ounces (340.5 grams) Aerosol	—

Decals - All Engine Models

1	27207	Decal - Yellow Triangle	2
2	27205	Decal - Yellow Arrow	1
3	31066	Decal - Caution, Component damage	1
4	—	Model specific decal, refer to page 1-9 or 1-11	—
5	27206	Decal - Blue Triangle	2
6	28175	Decal - Caution, Improper contact with components	4
7	28179	Decal - Danger, Do not alter limit switch	2
8	27204	Decal - Blue Arrow	1
9	28173	Decal - Danger, Keep out, boom storage	1
10	31746	Decal - Danger, Tip-over hazard	3
11	31163	Decal - Z	2
12, 13	—	Model specific decals, refer to page 1-9 or 1-11	—
14	28164	Decal - Notice, Hazardous materials	1
15	28171	Decal - Danger, No Smoking	2
16	28157	Decal - Notice, Dexron II ATF	2

This parts list continues on page 1-9.

FIGURE 1-B

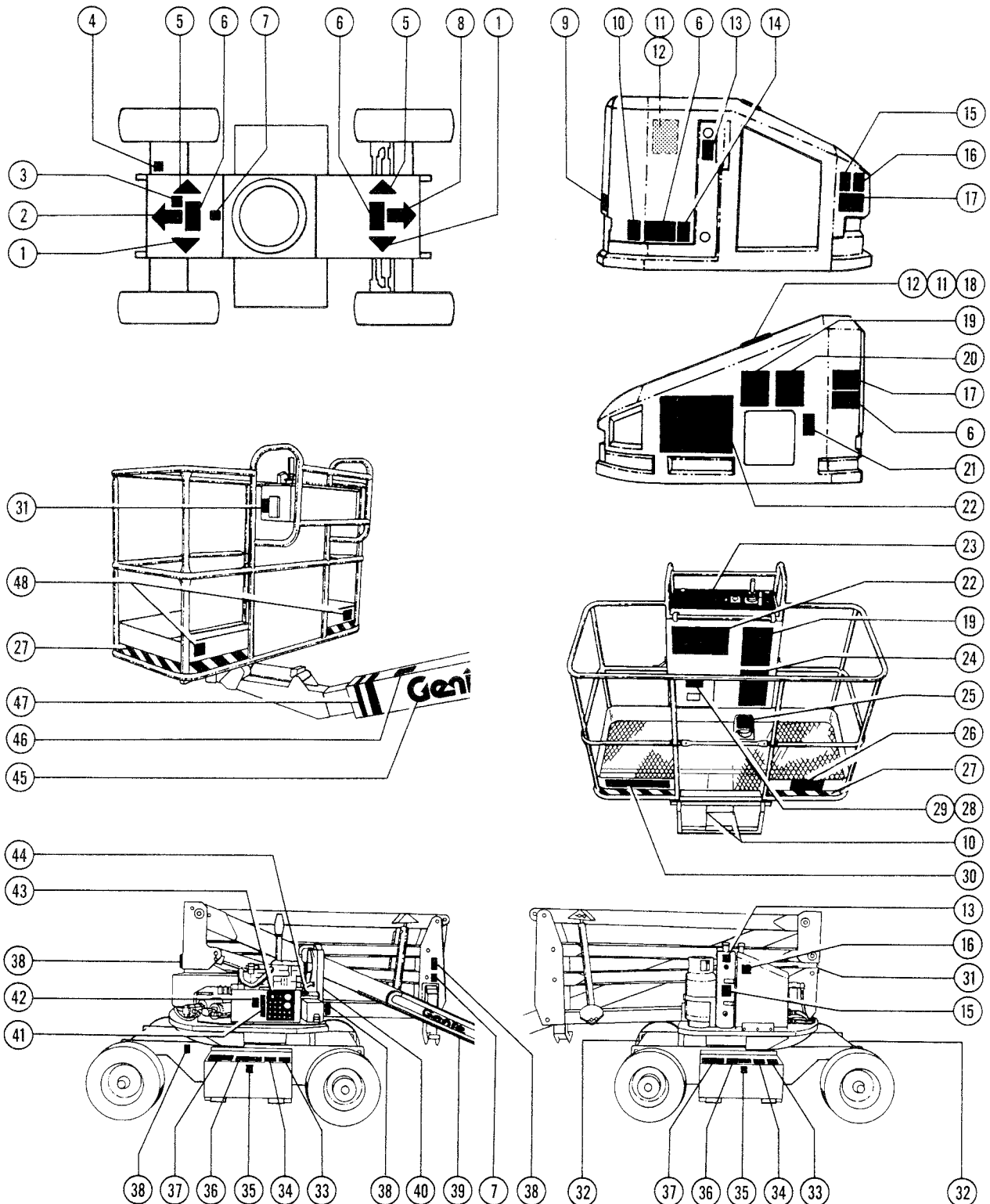


FIGURE 1-B

Index	Part No.	Description	Quantity This Figure
17	25980	Decal - Danger, Electrocution hazard	2
18	28239	Decal - Warning - Burn hazard	1
19	29801	Decal - Notice, Pre-operation Instructions	2
20	29796	Decal - Notice, Operating Instructions, Ground	1
21	31784	Decal - Notice, Tire pressure	1
22	29800	Decal - Danger, General Safety Rules	2
23	29799	Decal - Platform Controls	1
24	29798	Decal - Notice, Operating Instructions, Platform	1
25	28165	Decal - Notice, Foot Switch	1
26	28163	Decal - Notice, Maximum allowable side force	1
27	1699	Safety Tape - Black / Yellow Striped, 4' Platform	98 inches (249 cm)
—	1699	Safety Tape - Black / Yellow Striped, 5' Platform	112 inches (284 cm)
—	1699	Safety Tape - Black / Yellow Striped, 6' Platform	125 inches (318 cm)
28	28236	Decal - Warning, Improper use hazard	1
29	28176	Decal - Notice, If Safety and Operating (concealed from view)	1
30	30080	Decal - Notice, Maximum load: 500 lbs / 227 kg	1
31	28235	Decal - Notice, Power to platform, 115V AC	2
—	28174	Decal - Notice, Power to platform, 220V AC	2
32	21383	Decal - Genie Boom	2
33 - 37	—	Model specific decals, refer to page 1-11	—
38	28161	Decal - Warning, Crushing hazard	4
39	28043	Decal - Genie Z-45/22, 4 x 39 inches (10.2 x 99 cm)	1
40	31062	Decal - Notice, Manual controls	1
41	—	Model specific decal, refer to page 1-11	—
42	28162	Decal - Warning, Moving engine parts	1
43	30084	Decal - Ground Controls	1
44	28170	Decal - Warning - Battery safety	1
45	28042	Decal - Genie Z-45/22, 6 x 59 inches (15.2 x 150 cm)	1
46	28181	Decal - Warning, No step or ride	1
47	28044	Decal - White Stripe, 6 x 21.4 inches (15.2 x 54 cm)	1

This parts list continues on page 1-11.

FIGURE 1-B

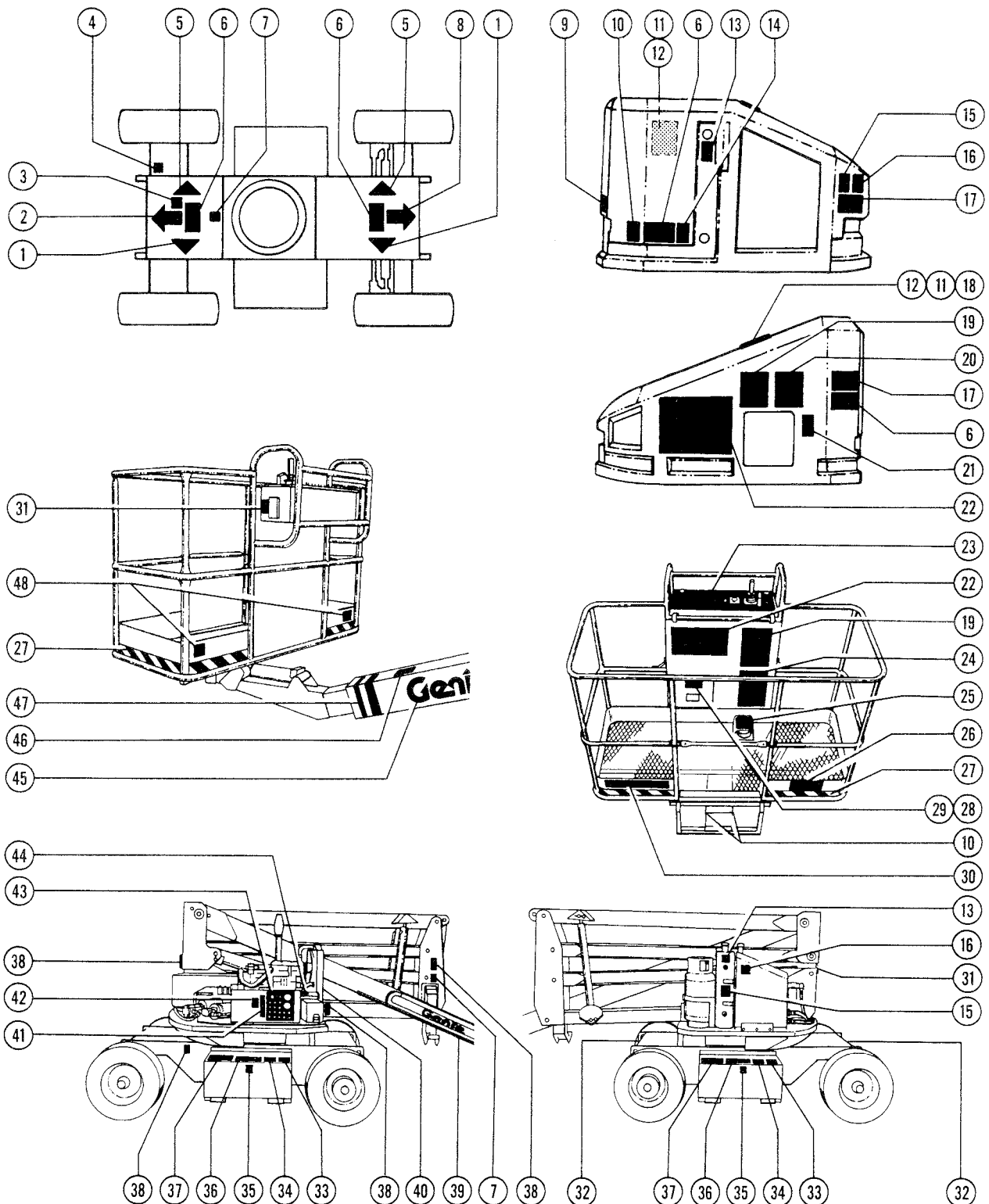
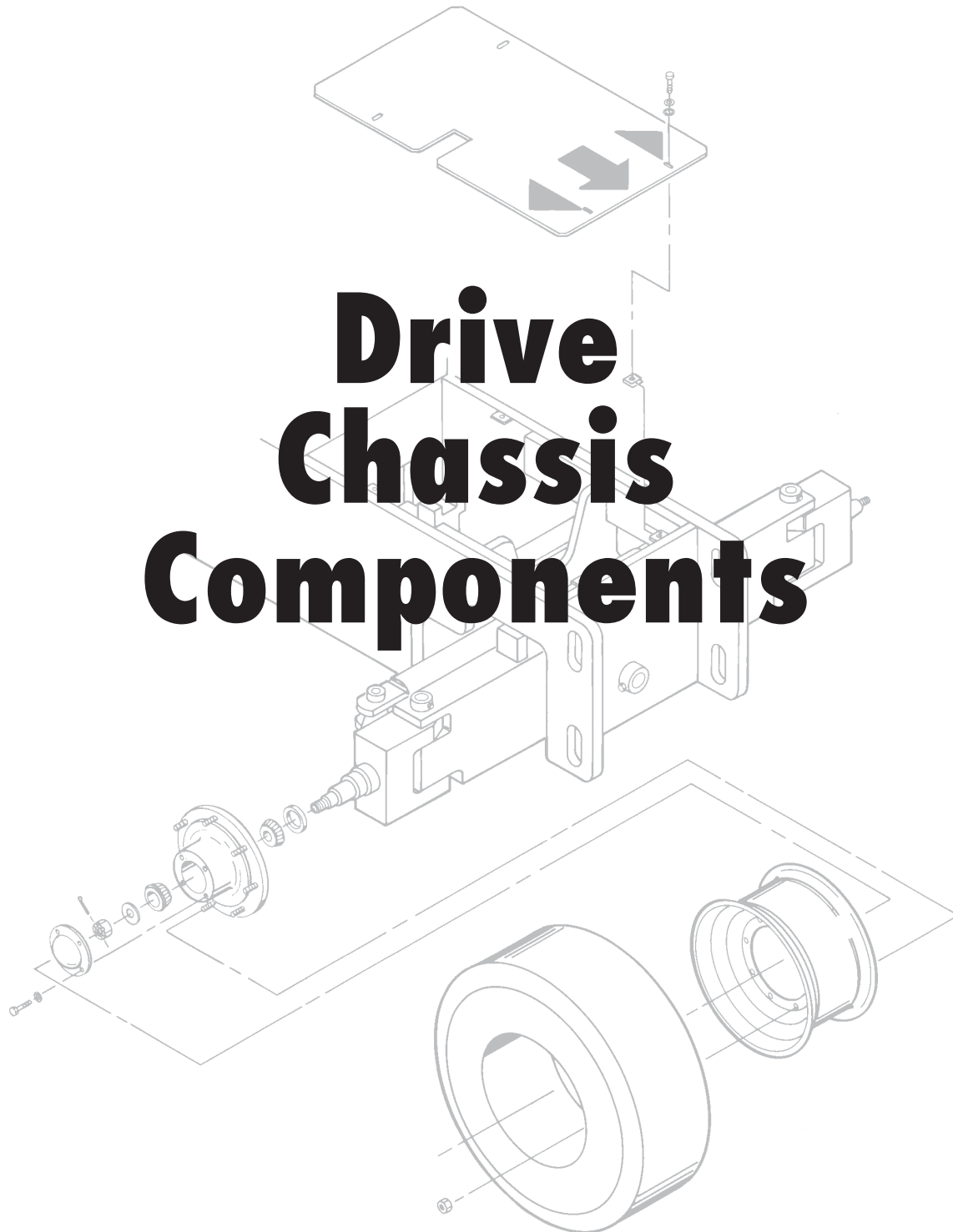


FIGURE 1-B

Index	Part No.	Description	Quantity This Figure
48	28177	Decal - Warning, Crushing hazard	2
Decals - Tri-fuel Models			
4	31508	Decal - Notice, Power to battery charger	1
10	28160	Decal - Notice, LPG	1
12	31169	Decal - Genie Tri-fuel	2
13	28158	Decal - Notice, Unleaded Gasoline	2
33	29793	Decal - Notice, Battery connection diagram	2
34	29794	Decal - Danger, Replace batteries	2
35	28372	Decal - Caution, Quick disconnect	2
36	29792	Decal - Notice, Battery charger operating instructions	2
37	31052	Decal - Danger, Battery safety	2
41	31055	Decal - Notice, Kubota Gas Engine Specifications	1
Decals - Bi-fuel Models			
4	31508	Decal - Notice, Power to battery charger	1
12	31167	Decal - Genie Bi-fuel	2
13	28159	Decal - Notice, Diesel Fuel	2
33	29793	Decal - Notice, Battery connection diagram	2
34	29794	Decal - Danger, Replace batteries	2
35	28372	Decal - Caution, Quick disconnect	2
36	29792	Decal - Notice, Battery charger operating instructions	2
37	31052	Decal - Danger, Battery safety	2
41	31054	Decal - Notice, Kubota Diesel Engine Specifications	1
Decals - Gas/LPG Models			
12	31168	Decal - Genie Gas/LPG	2
10	28160	Decal - Notice, LPG	1
13	28158	Decal - Notice, Unleaded Gasoline	2
41	31055	Decal - Notice, Kubota Gas Engine Specifications	1
Decals - Diesel Models			
12	31170	Decal - Genie Diesel	2
13	28159	Decal - Notice, Diesel Fuel	2
41	31054	Decal - Notice, Kubota Diesel Engine Specifications	1

Notes

Section Two



Drive Chassis Components

Figure 2-A

Steer Linkage

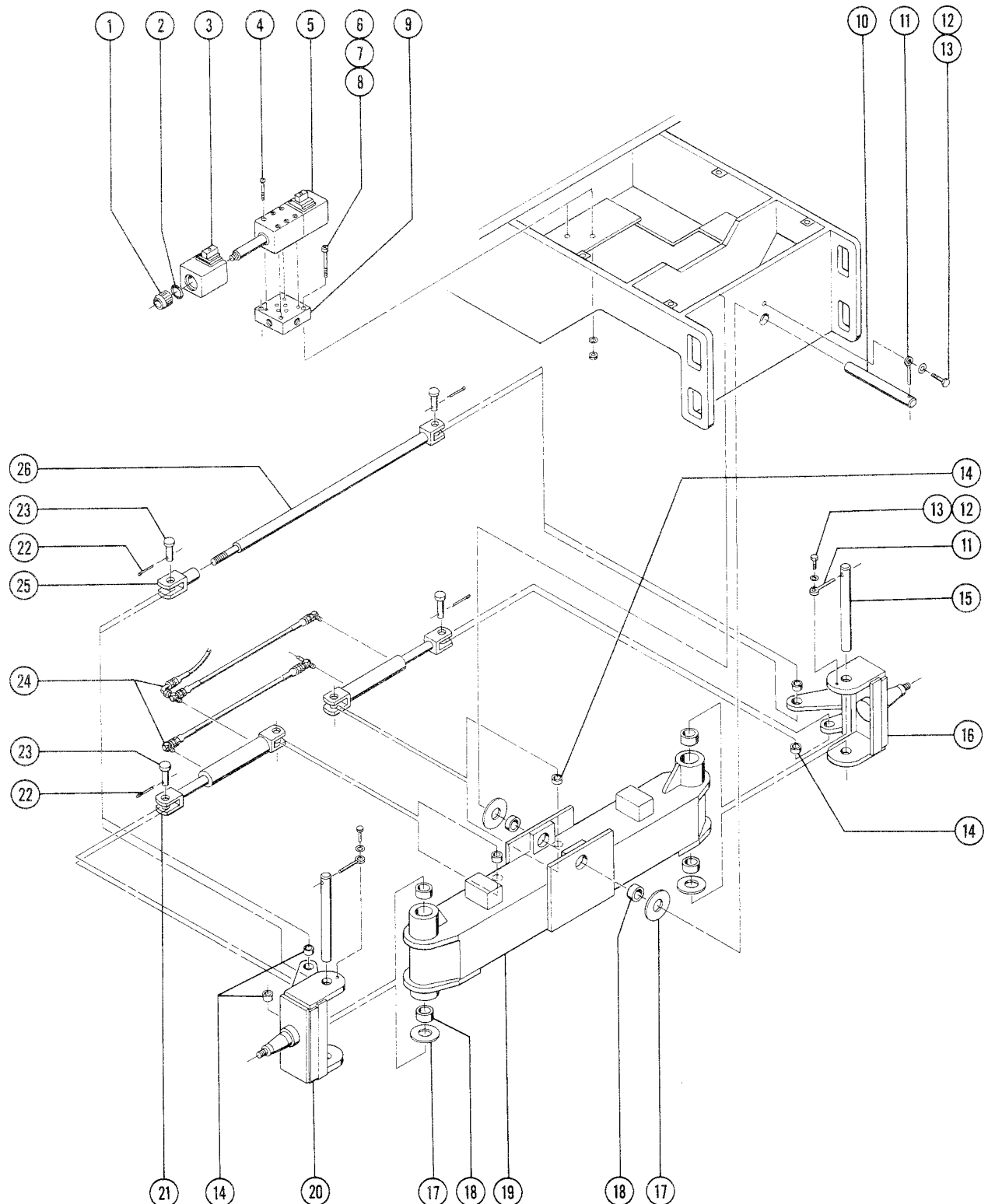


FIGURE 2-A

Index	Part No.	Description	Quantity This Figure
1	45913	Nut - D01 Valve	2
2	45914	O-Ring, D01 Valve	2
3	27813	Coil - D01 Valve, 10V	2
4	45916	Screw - SHC, 10-24 x 1.125 inch	4
5	27533	Valve - D01, 12V (includes index numbers 1 through 3)	1
6	30444	Screw - SHC, 1/4 -20 x 2 inch	2
7	6638	Washer - Flat, 1/4 inch	2
8	6091	Nut - Nylock, 1/4 -20	2
9	24675	Sub Plate - D01 Valve	1
10	29057	Pin - Axle Pivot, 11 x 1.5 inches (27.9 x 4 cm)	1
11	45226	Rod End	3
12	8516	Screw - HHC, 3/8 -16 x 1.5 inch, GR 5	3
13	6021	Washer - Lock, 0.375 inch	3
14	25817	Bearing, 1.25 x 1.5 x 1 inch (3.2 x 3.8 x 2.5 cm)	6
15	25058	Kingpin, 14.5 x 1.5 inches (36.8 x 4 cm)	2
16	27684	Yoke Assembly - Left Side (includes 2 each index number 14)	1
17	45074	Washer - Thrust	4
18	45071	Bearing, 1.5 x 1.75 x 1.5 inches (3.8 x 4.4 x 3.8 cm)	6
19	27686	Front Axle Assembly (includes index numbers 14 and 18)	1
20	27685	Yoke Assembly - Right Side (includes 2 each index number 14)	1
21	24390	Hydraulic Cylinder - Steer	2
—	45548	Seal Kit - Steer Cylinder	—
22	5361	Pin - Cotter, 0.125 x 1.5 inch	6
23	19440	Pin - Clevis	6
24	Ref.	Hydraulic Hoses & Fittings (refer to figure 2-G, page 2-16)	—
25	23154	Weldment - Tie Rod End	1
26	24544	Weldment - Tie Rod	1

Figure 2-B

Steer Axle

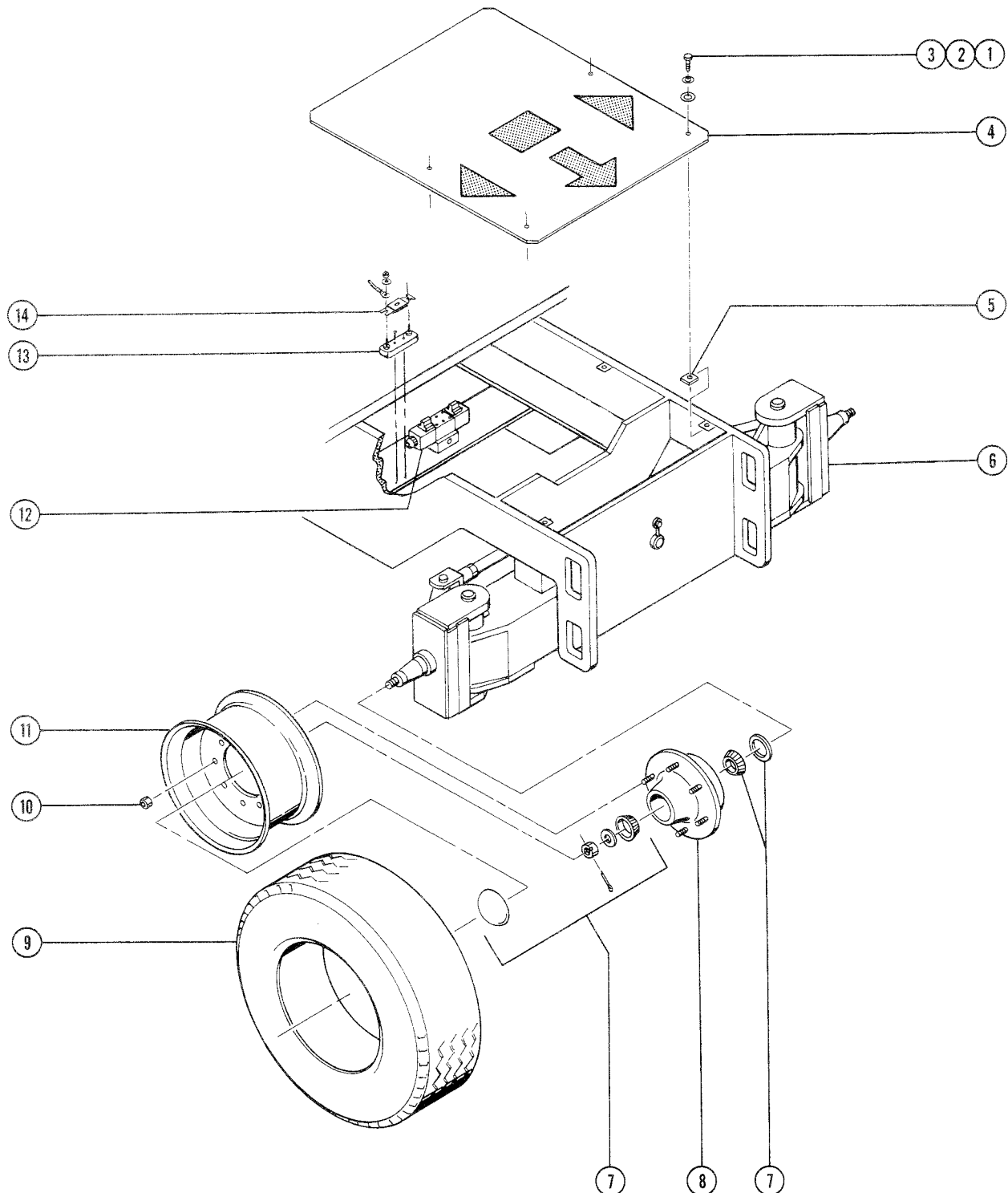


FIGURE 2-B

Index	Part No.	Description	Quantity This Figure
1	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	4
2	6356	Washer - Lock, 1/4 inch	4
3	6638	Washer - Flat, 1/4 inch	4
4	27661	Cover with Decals (decals are listed in section one)	1
5	25969	Nut - Spring Clip, 1/4 -20	4
6	Ref.	Steer Linkage (refer to figure 2-A, page 2-2)	—
7	45873	Hub Seal, Bearing and Race Kit	2
8	45043	Hub Assembly with Races	2
9	45042	Tire - Industrial, 9-14.5 LT	2
—	45093	Tire & Wheel Assembly - Steer Industrial, Air Filled	—
—	45460	Tire & Wheel Assembly - Steer Industrial, Foam Filled	—
10	45109	Nut - 90° Lug, 5/8 -18	16
11	45040	Wheel - Industrial, 14.5 x 7 inches	2
12	Ref.	Steer Valve (refer to figure 2-A, page 2-2)	—
13	13105	Fuse Holder	1*
14	13104	Fuse 300A	1*

* Quantity listed may not reflect specific model configuration requirements.

Figure 2-C

Battery Pack

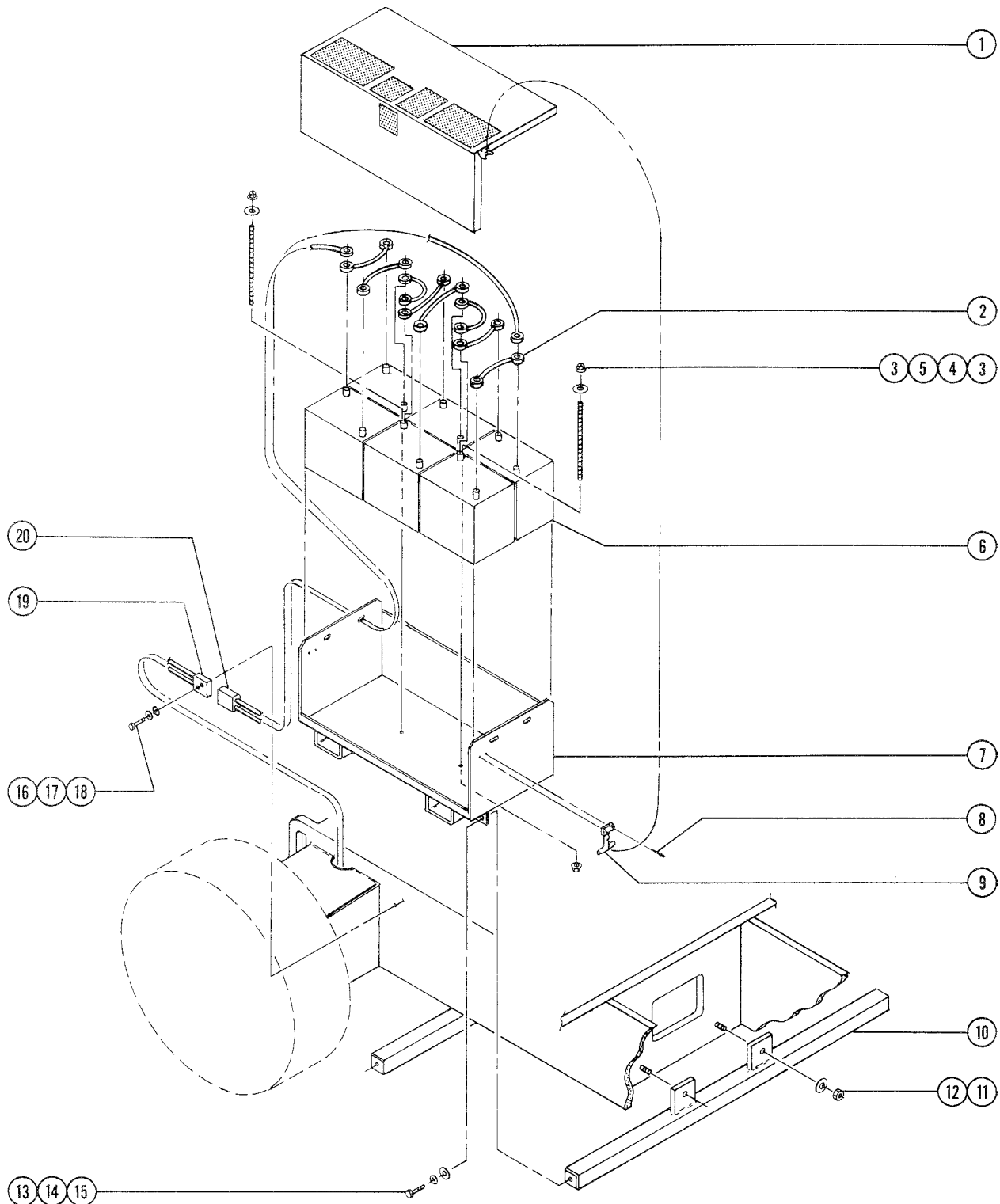


FIGURE 2-C

Index	Part No.	Description	Quantity This Figure
1	31759	Cover Assembly with Decals (decals listed in section one)	1
2	19520	Battery Cable	8
3	18504	Nut - Locking Flange, $\frac{1}{4}$ -20	4
4	24039	Washer - Plate, $\frac{3}{8}$ x 2 x 0.187 inch	2
5	29885	Threaded Rod, $\frac{1}{4}$ -20 x 12 inches	2
6	13006	Battery, 6V 245AH, Dry	6
7	31760	Battery Box Assembly (includes index numbers 8 and 9)	1
8	6272	Rivet - Steel, 0.125 x 0.25 inch	4
9	13579	Flexible Draw Latch	2
10	29707	Weldment - Battery Pack Support	2
11	6012	Nut - Hex, $\frac{1}{2}$ -13	4
12	13775	Washer - Flat, 1.063 x 2 x 0.134 inch	4
13	10597	Screw - HHC, $\frac{1}{2}$ -13 x 1.25 inch, GR 5	4
14	6033	Washer - Lock, $\frac{1}{2}$ inch	4
15	6095	Washer - Flat, $\frac{1}{2}$ inch	4
16	6145	Screw - HHC, $\frac{1}{4}$ -20 x 1.5 inch, GR 5	4
17	6356	Washer - Lock, $\frac{1}{4}$ inch	4
18	6638	Washer - Flat, $\frac{1}{4}$ inch	4
19	32212	Battery Cable Assembly - Drive Chassis	1
—	13101	Battery Connector	—
20	32214	Battery Cable Assembly - Right Side Battery Box (Shown)	1
—	32213	Battery Cable Assembly - Left Side Battery Box	1

Figure 2-D

Battery Charger

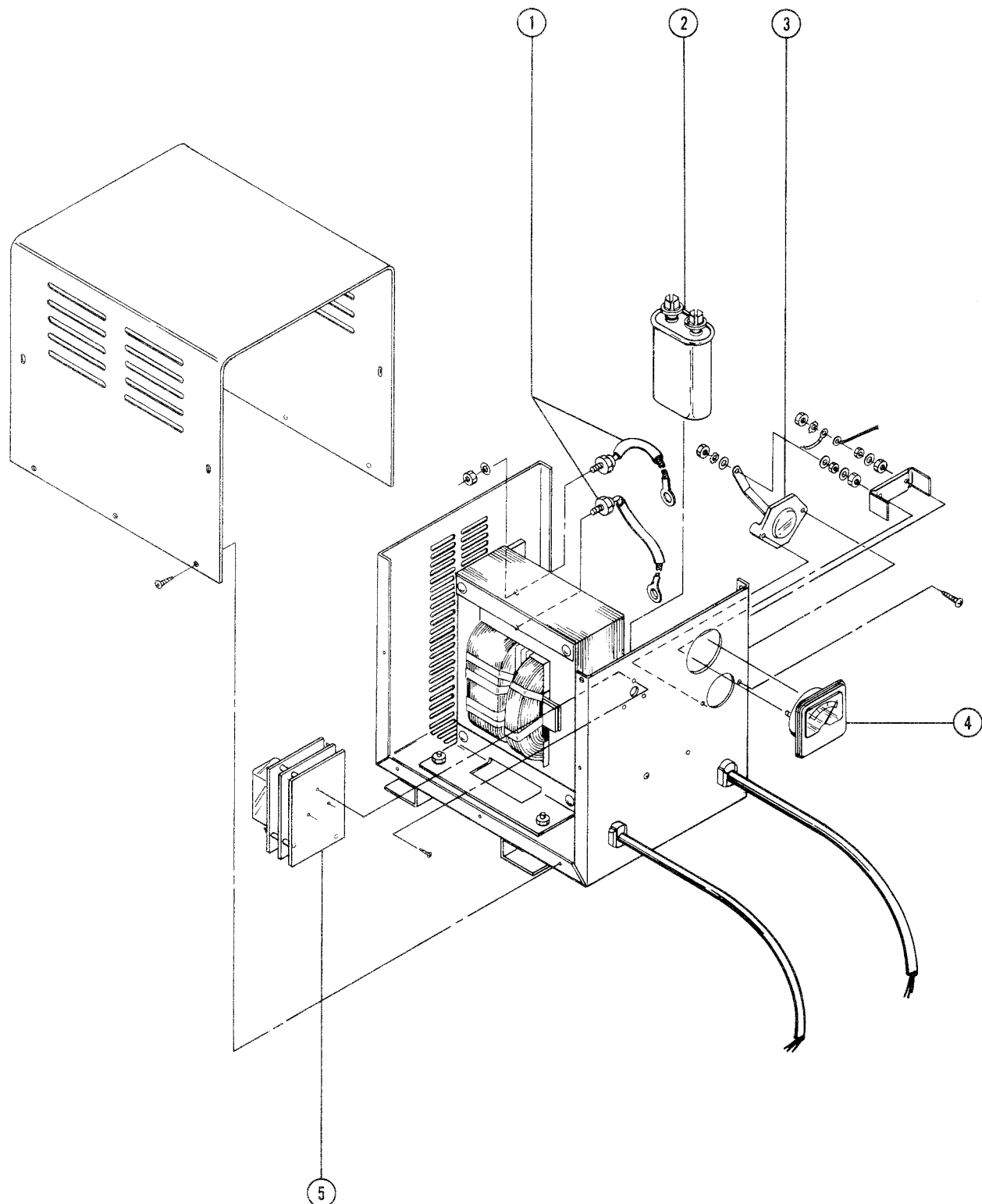


FIGURE 2-D

Index	Part No.	Description	Quantity This Figure
—	45044	Battery Charger, Complete, 115V/60Hz	—
—	45380	Battery Charger, Complete, 220V/50Hz	—
—	45432	Battery Charger, Complete, 100V/50Hz	—
—	45433	Battery Charger, Complete, 100V/60Hz	—
1	19528	Diode Assembly	2
2	13008-3	Capacitor, 6.0 MFD, 660V	1
3	19529	Fuse Assembly	1
4	19530	Ammeter Assembly	1
5	13008-1	Electronic Timer - 45044 Battery Charger	1
—	18078	Relay, Electronic Timer	—
5	19531	Electronic Timer - 45380 Battery Charger	1
—	19533	Relay, Electronic Timer	—
5	19532	Electronic Timer - 45432 and 45433 Battery Charger	1
—	19533	Relay, Electronic Timer	—

Figure 2-E

Drive Manifold

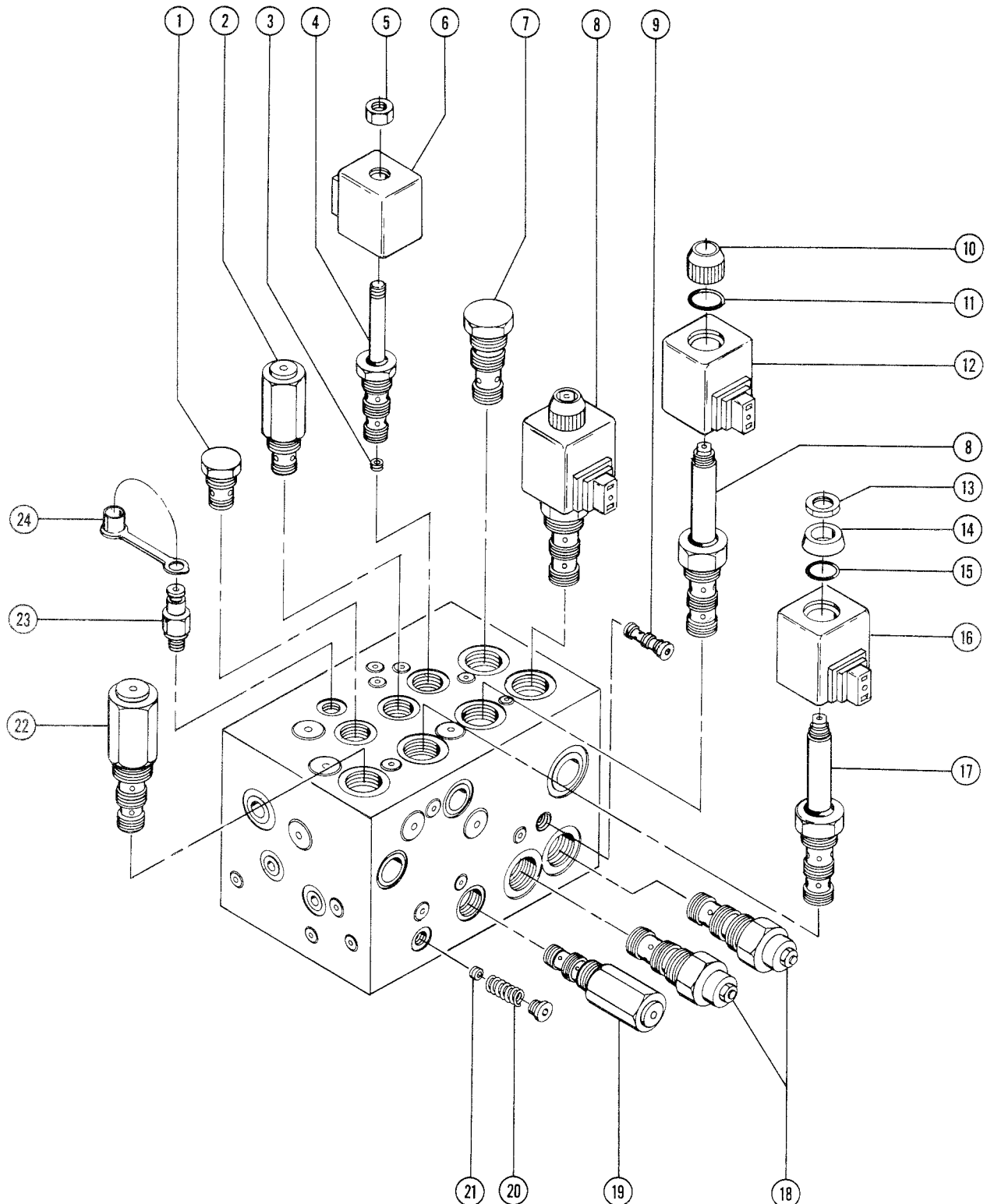


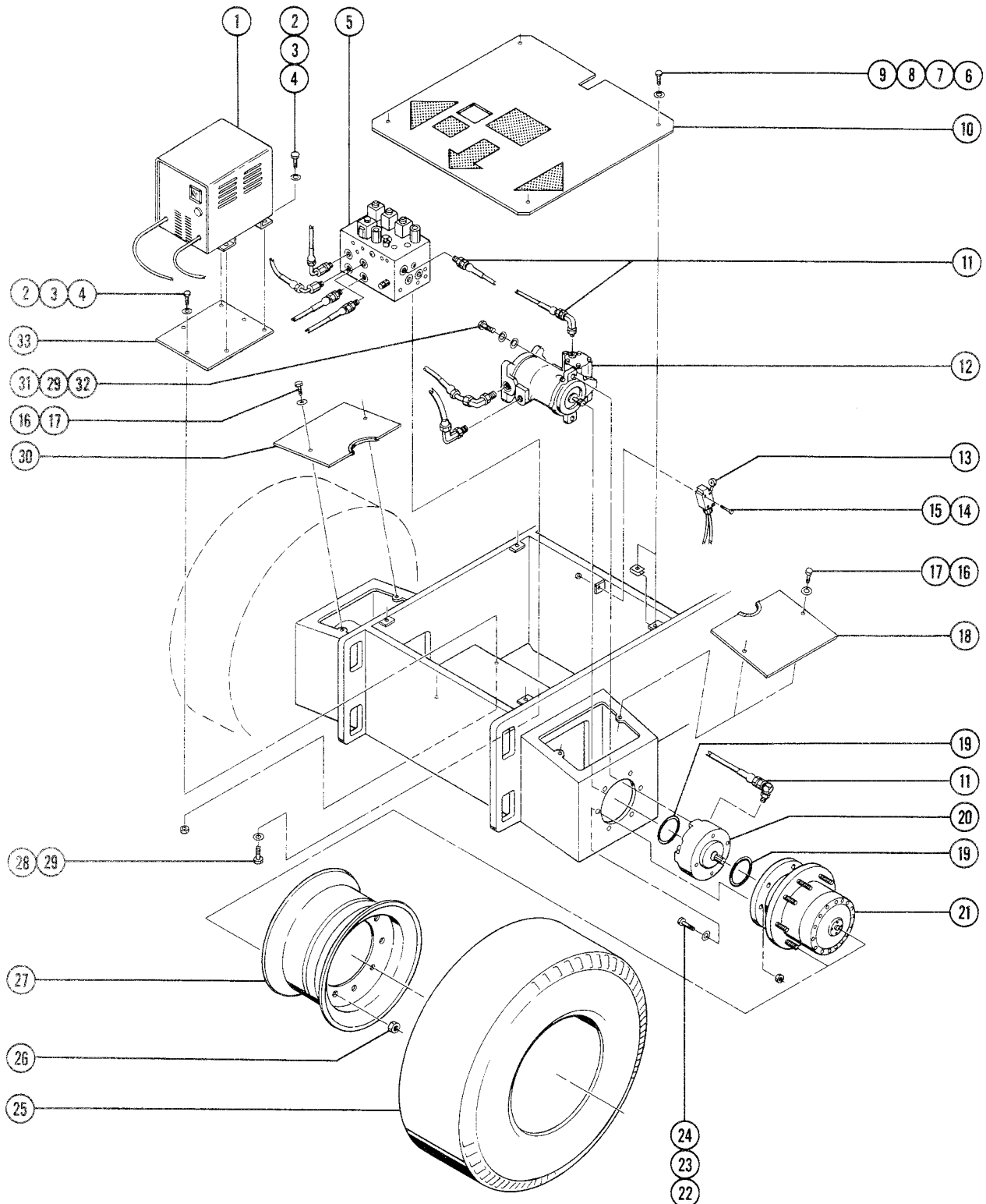
FIGURE 2-E

Index	Part No.	Description	Quantity This Figure
—	29534	Drive Manifold, Complete	—
—	25375	O-Ring Kit (services all Compact Controls hydraulic cartridges)	—
1	27836	Valve - Check	1
2	45489	Valve - Relief, 3000 psi (207 bar)	1
3	29294	Plug - Orifice, 0.025 inch (0.6 mm)	1
4	19970	Valve - Solenoid, 2 Position 3 Way, 12V (includes 1 each index numbers 5 and 6)	1
5	45912	Nut - Solenoid Valve	1
6	22813	Coil - Solenoid Valve, 12V	1
7	19973	Valve - Differential Sensing	1
8	19969	Valve - Solenoid, 2 Position 3 Way, 12V (includes 1 each index numbers 10 through 12)	2
9	45483	Valve - Shuttle	1
10	45913	Nut - Solenoid Valve	2
11	45920	O-Ring, Solenoid Valve	2
12	27535	Coil - Solenoid Valve, 12V	2
13	45922	Nut - Proportional Solenoid	1
14	45921	Spacer - Proportional Solenoid	1
15	45914	O-Ring, Proportional Solenoid	1
16	21935	Coil - Proportional Solenoid, 12V	1
17	31755	Valve - Proportional Solenoid, 12V (includes index numbers 13 through 16)	1
18	31754	Valve - Counterbalance, 2000 psi (138 bar)	2
19	31753	Valve - Pressure Reducing, 320 psi (22 bar)	1
20	18920	Spring	1
21	18921	Washer - Orifice, 0.030 inch (0.7 mm)	1
22	31756	Valve - Remote Pilot Operated Unloader, 15000 psi (103 bar)	1
23	45642	Diagnostic Nipple	1
—	20224	Female Quick Disconnect for Pressure Gauge	—
24	45643	Cap - Diagnostic Nipple	1

Figure 2-F

Non-steer Axle

REV B



REV B

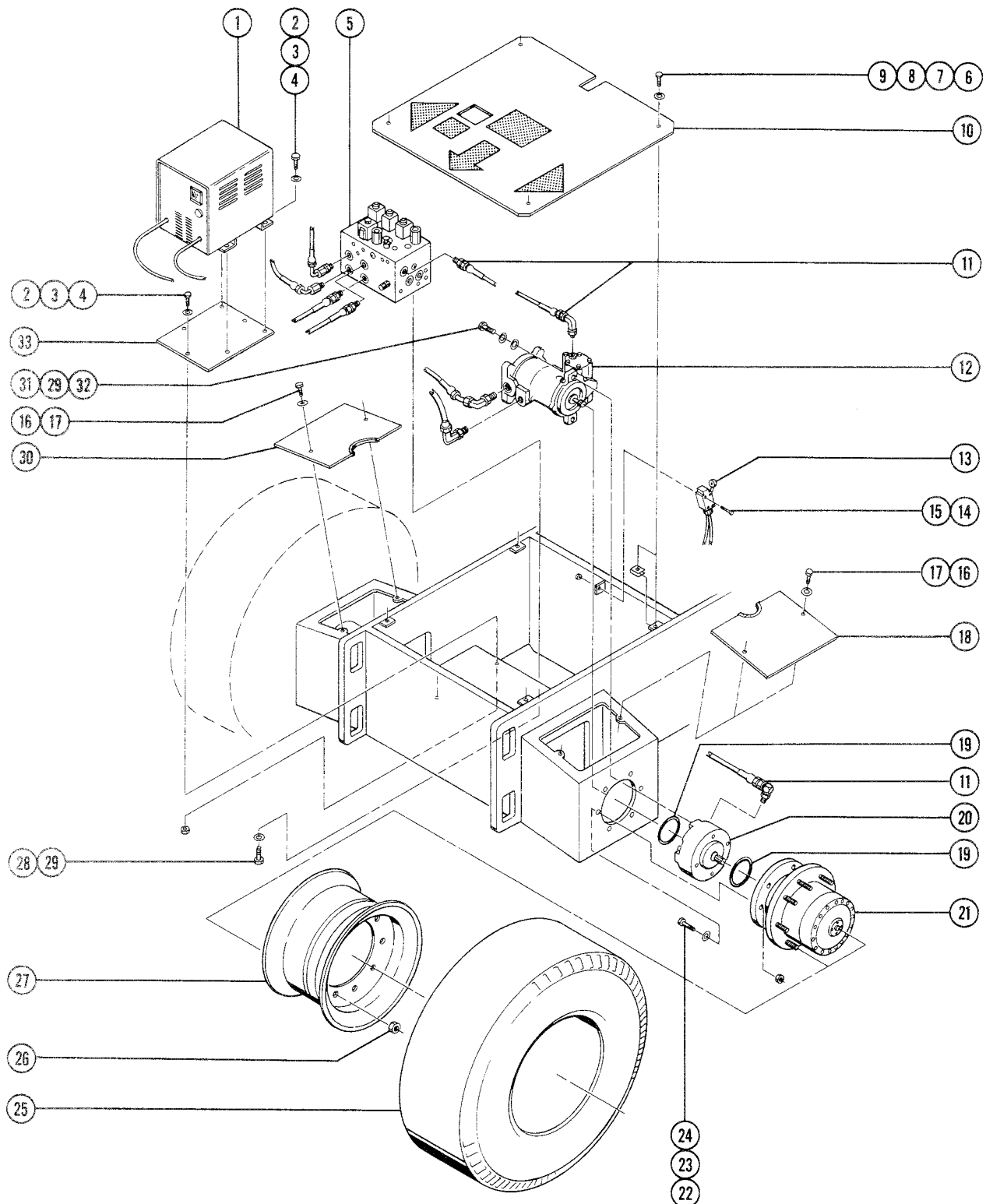
FIGURE 2-F

Index	Part No.	Description	Quantity This Figure
1	Ref.	Battery Charger (refer to figure 2-D, page 2-8)	—
2	6019	Screw - HHC, $\frac{3}{8}$ -16 x 1.25 inch, GR 5	6
3	6097	Washer - Flat, 0.375 inch	12
4	4828	Nut - Nylock, $\frac{3}{8}$ -16	6
5	Ref.	Drive Manifold (refer to figure 2-E, page 2-10)	—
6	6090	Screw - HHC, $\frac{1}{4}$ -20 x 0.75 inch, GR 5	4
7	6356	Washer - Lock, $\frac{1}{4}$ inch	4
8	6638	Washer - Flat, $\frac{1}{4}$ inch	4
9	25969	Nut - Spring Clip, $\frac{1}{4}$ -20	4
10	31762	Cover - Drive Chassis, Non-steer End, with Decals (decals are listed in section one)	1
11	Ref.	Hydraulic Hoses & Fittings (refer to figure 2-G, page 2-16)	—
12	24668	Drive Motor, 7 Degree	2
13	25050	Limit Switch with Roller Arm	1
—	19491	Contact - Limit Switch	—
—	27643	Roller Arm - Limit Switch	—
14	22541	Screw - RHM, 10-32 x 1.5 inch	2
15	6178	Nut - Nylock, 10-32	2
16	8255	Screw - HHC, $\frac{3}{8}$ -16 x 0.75 inch, GR 5	4
17	6021	Washer - Lock, 0.375 inch	4
18	31763	Cover - Drive Axle, Right Side	1
19	22811	O-Ring	4
20	29422P	Brake - Mico (includes 2 each index number 19)	2
—	29291	Seal Kit - Mico Brake	—
—	29292	Lining Kit - Mico Brake	—
—	29293	Bearing Kit - Mico Brake	—

This parts list continues on page 2-15.

FIGURE 2-F

REV B



REV B

FIGURE 2-F

Index	Part No.	Description	Quantity This Figure
21	20451P	Torque Hub, 30:1	2
—	21142	Seal Kit - 30:1 Torque Hub	—
—	21149	Stud - Wheel, $\frac{5}{8}$ -18	—
22	45495	Screw - SHC, $\frac{5}{8}$ -11 x 3 inch GR 8	12
23	13064	Washer - Flat Hardened, $\frac{5}{8}$ inch	12
24	45076	Nut - Hex Jam, $\frac{5}{8}$ -11 inch	12
25	45042	Tire - Industrial, 9-14.5 LT	2
—	45094	Tire & Wheel Assembly - Drive, Industrial, Air Filled	—
—	45461	Tire & Wheel Assembly - Drive, Industrial, Foam Filled	—
26	54627	Nut - 90° Lug, $\frac{5}{8}$ -18	18
27	45040	Wheel - Industrial, 14.5 x 7 inches	2
28	10597	Screw - HHC, $\frac{1}{2}$ -13 x 1.25 inch, GR 5	2
29	6033	Washer - Lock, $\frac{1}{2}$ inch	6
30	31761	Cover - Drive Axle, Left Side	1
31	22786	Screw - SHC, $\frac{1}{2}$ -13 x 5.5 inch GR 5	4
32	13066	Washer - Flat Hardened, $\frac{1}{2}$ inch	4
33	29712P	Plate - Battery Charger Mounting	1

Figure 2-G

Hydraulic Hoses and Fittings

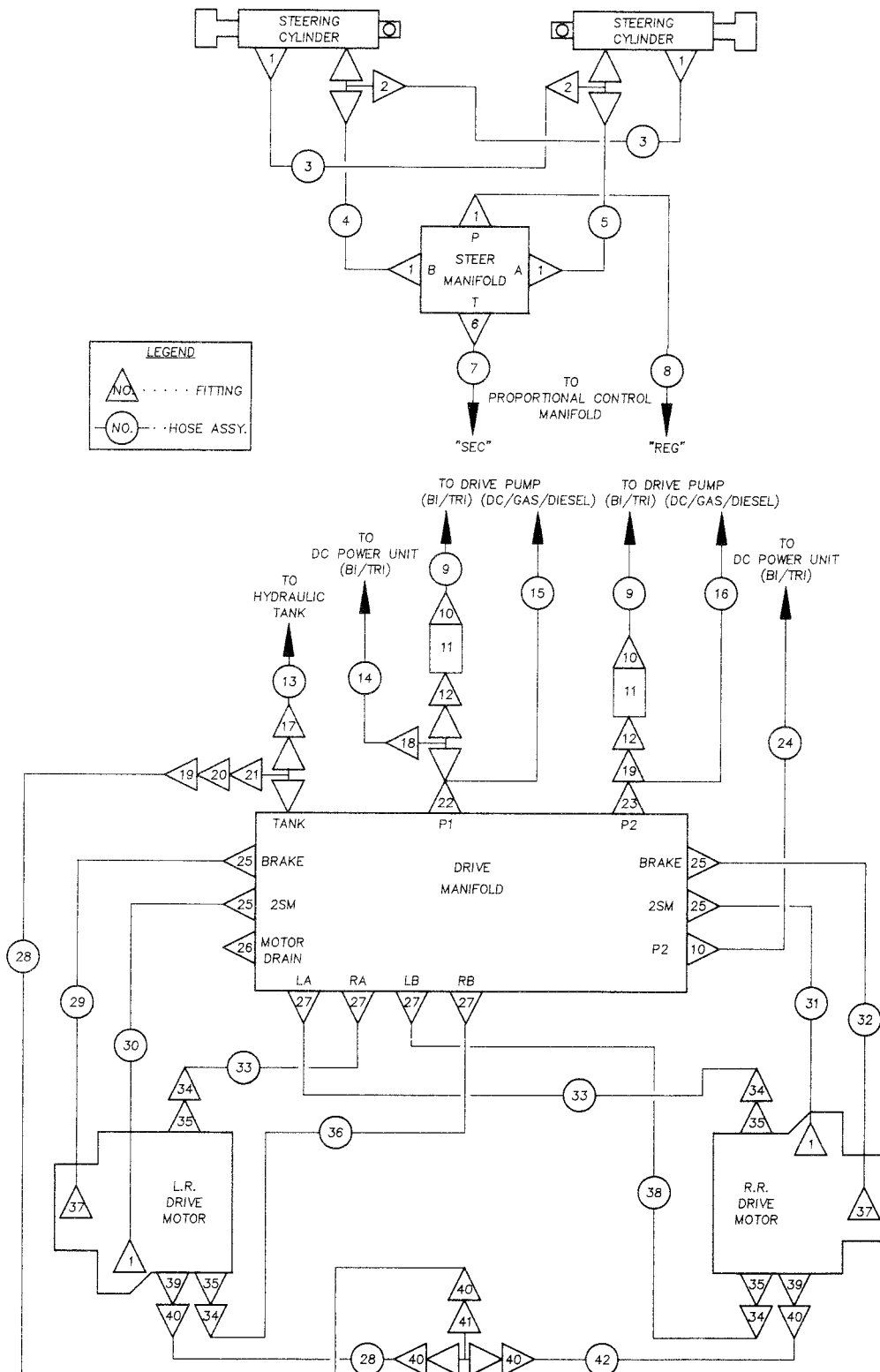


FIGURE 2-G

Index	Part No.	Description	Quantity This Figure
1	13120	Fitting - 90° Elbow, 6 SAE x 6 JIC (SAE 070220)	7
2	13119	Fitting - Run Tee, 6 SAE x 6 JIC (SAE 070428)	2
3	28032	Hose Assembly - Components: H, H & B @ 19.5 inches (50 cm)	2
4	28040	Hose Assembly - Components: H, I & B @ 11 inches (28 cm)	1
5	28035	Hose Assembly - Components: H, J & B @ 14 inches (38 cm)	1
6	45412	Fitting - Connector, 6 SAE x 6 JIC (SAE 070120)	1
7	28041	Hose Assembly - Components: H, H & B @ 65 inches (165 cm)	1
8	28036	Hose Assembly - Components: H, J & B @ 65 inches (165 cm)	1
9	31806	Hose Assembly - Components: L, N & D @ 63.5 inches (161 cm)	2*
10	45703	Fitting - Connector, 8 SAE x 8 JIC (SAE 070120)	3*
11	31798	Valve - Check	2*
12	31797	Fitting - Swivel Adapter, 8 SAE x 8 JIC	2*
13	29924	Hose - Component: E @ 55 inches (140 cm)	1
14	31809	Hose Assembly - Components: L, M & D @ 67 inches (170 cm)	1*
15	31799	Hose Assembly - Components: L, M & D @ 83 inches (211 cm) (DC Models)	1
—	32211	Hose Assembly - Components: L, N & D @ 70.5 inches (179 cm) (Gas / LPG and Diesel Models)	1
16	29929	Hose Assembly - Components: H, K & B @ 44.5 inches (113 cm) (DC Models)	1
—	32211	Hose Assembly - Components: L, N & D @ 70.5 inches (179 cm) (Gas / LPG and Diesel Models)	1
17	45170	Fitting - Swivel Hose End, 12 JIC x 0.75 inch Barb	1
18	21252	Fitting - Swivel Run Tee, 8 JIC (SAE 070432)	1*
19	28597	Fitting - 90° Swivel Hose End, 8 JIC x 0.5 inch Barb	1
20	20325	Fitting - Adaptor, 12 JIC x 8 JIC (SAE 010105)	1
21	28456	Fitting - Run Tee, 12 SAE x 12 JIC (SAE 070428)	1

* Quantity listed may not reflect specific model configuration requirements.

This parts list with a hose assembly component list continues on page 2-19.

FIGURE 2-G

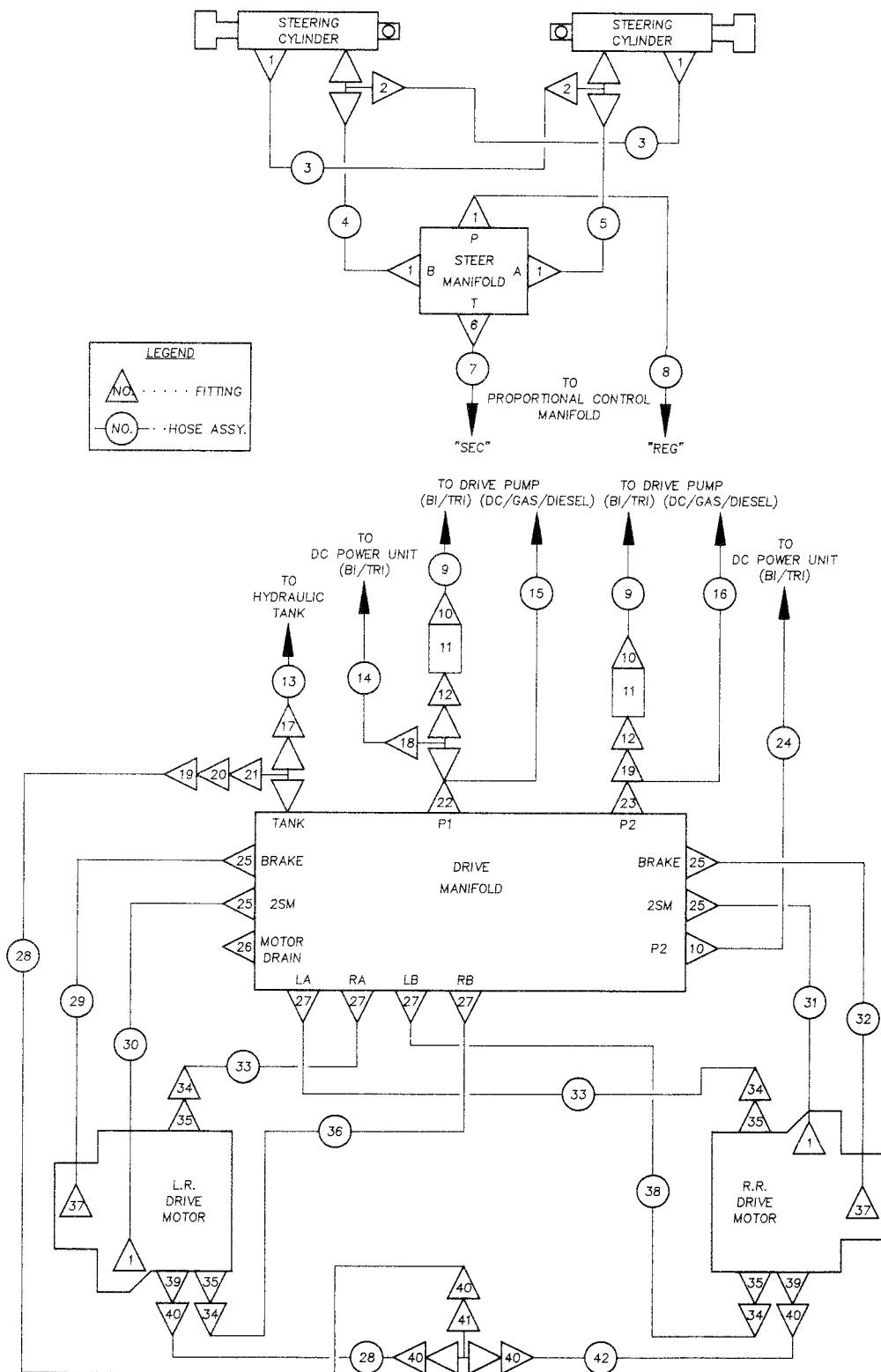


FIGURE 2-G

Index	Part No.	Description	Quantity This Figure
22	24058	Fitting - 45° Elbow, 10 SAE x 8 JIC, (SAE 070320)	1
23	21248	Fitting - 45° Elbow, 10 SAE x 10 JIC, (SAE 070320)	1
24	31394	Hose Assembly - Components: L, M & D @ 77 inches (195.5 cm)	1
25	13799	Fitting - Connector, 6 SAE x 4 JIC (SAE 070120)	4
26	28452	Fitting - Hex Head O-Ring Boss Plug, 8 SAE (SAE 090109A)	1
27	45360	Fitting - Connector, 12 SAE x 10 JIC (SAE 070120)	4
28	31801	Hose - Component: C @ 12.75 inches (32 cm)	2
29	29914	Hose Assembly - Components: F, G & A @ 24 inches (61 cm)	1
30	29923	Hose Assembly - Components: F, G & A @ 25 inches (63.5 cm)	1
31	29922	Hose Assembly - Components: F, G & A @ 15 inches (38 cm)	1
32	29915	Hose Assembly - Components: F, G & A @ 20 inches (51 cm)	1
33	31802	Hose Assembly - Components: N, O & D @ 19 inches (48 cm)	2
34	31793	Fitting - Adapter, 16 JIC x 10 JIC (SAE 070123)	4
35	20793	Fitting - 90° Elbow, 16 SAE x 16 JIC (SAE 070220)	4
36	32210	Hose Assembly - Components: N, N & D @ 19 inches (48 cm)	1
37	13921	Fitting - 90° Elbow, 4 SAE x 4 JIC (SAE 070220)	2
38	31800	Hose Assembly - Components: N, N & D @ 14.25 inches (36 cm)	1
39	25951	Fitting - 90° Elbow, 12 SAE x 8 JIC (SAE 070220)	2
40	20324	Fitting - Hose End, 8 JIC Swivel x 1/2 inch Barb	5
41	31399	Fitting - Union Tee, 8 JIC (SAE 070401)	1
42	29927	Hose Assembly - Component: C @ 18 inches (46 cm)	1

Hose Assembly Component List - Figure 2-G

A Hose - 1/4" Thermoplastic Medium Pressure (Synflex 3130-04)	I Hose End - 45° Female JIC Swivel, 6-6 (Synflex 3903-06606)
B Hose - 3/8" Thermoplastic Medium Pressure (Synflex 3130-06)	J Hose End - 90° Female JIC Swivel, 6-6 (Synflex 3903-06646)
C Hose - 1/2" Push On (Weatherhead H20108)	K Hose End - Female JIC Swivel, 8-6 (Synflex 3903-06548)
D Hose - 1/2" Thermoplastic High Pressure (Synflex 3800-08)	L Hose End - Female JIC Swivel, 8-8 (Synflex 3903-08548)
E Hose - 3/4" Push On (Weatherhead H20112)	M Hose End - 90° Female JIC Swivel, 8-8 (Synflex 3903-08648)
F Hose End - Female JIC Swivel, 4-4 (Synflex 3903-04544)	N Hose End - Female JIC Swivel, 10-8 (Synflex 3903-08550)
G Hose End - 90° Female JIC Swivel, 4 JIC (Synflex 3903-04644)	O Hose End - 90° Female JIC Swivel, 10-8 (Synflex 3903-08650)
H Hose End - Female JIC Swivel, 6-6 (Synflex 3903-06546)	

Notes

Power Options

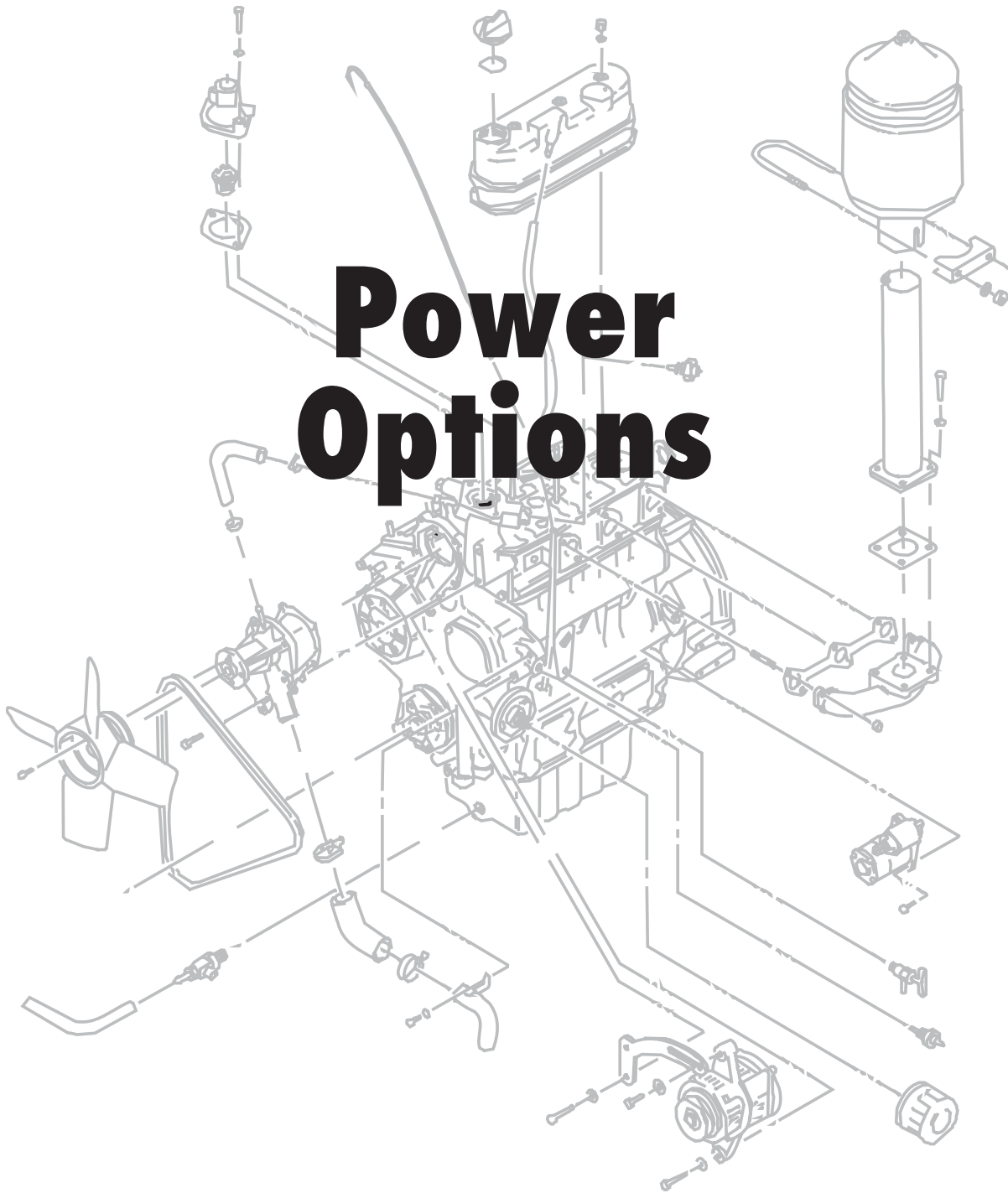


Figure 3-A

Engine Pivot Mount Components - DC Models

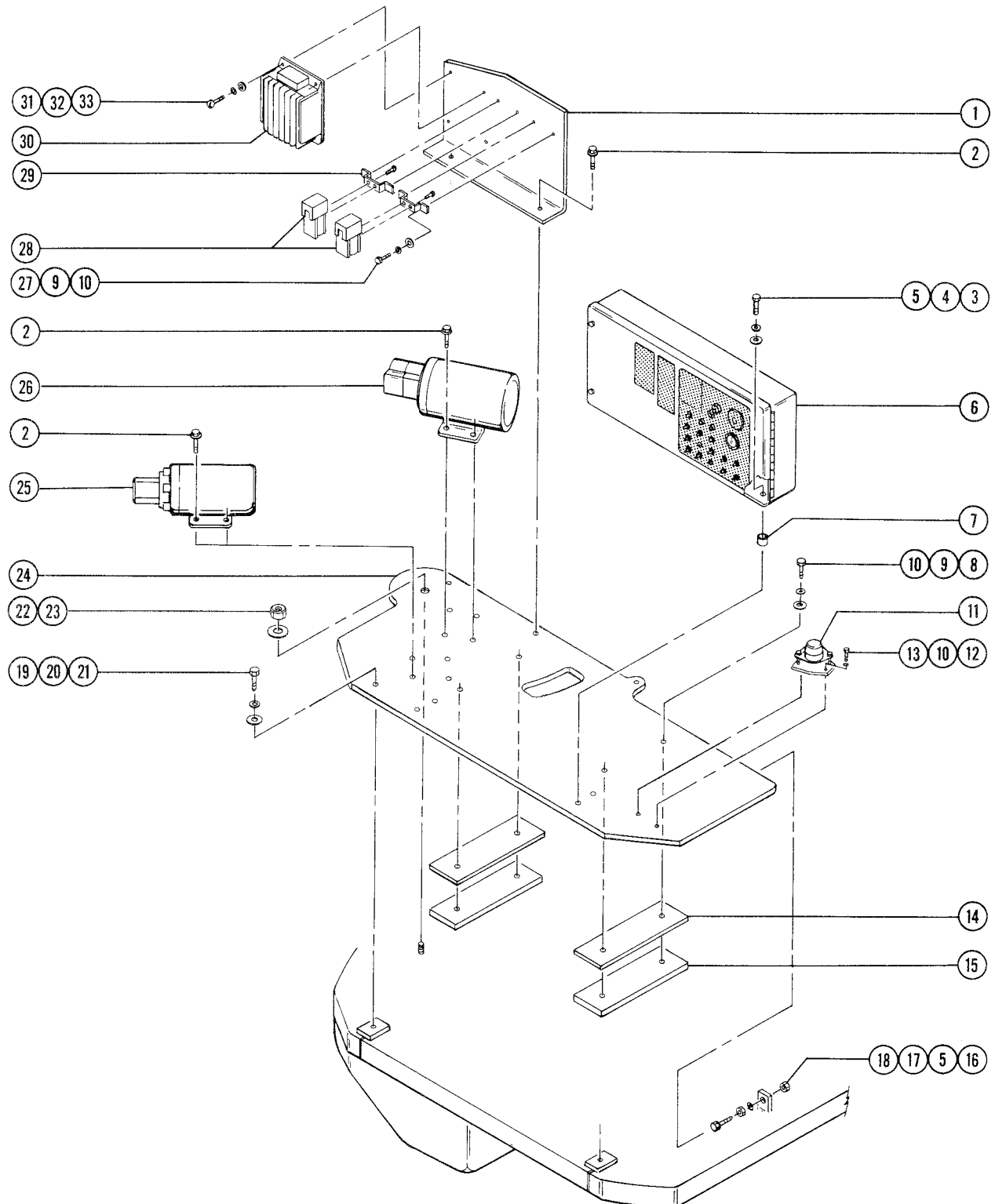


FIGURE 3-A

Index	Part No.	Description	Quantity This Figure
1	29610P	Plate - Contactor Mounting	1
2	18506	Screw - Locking Flange, $\frac{5}{16}$ -18 x 0.75 inch	10
3	13000	Screw - HHC, $\frac{5}{16}$ -18 x 1.125 inch, GR 5	4
4	6886	Washer - Lock, 0.312 inch	4
5	6097	Washer - Flat, 0.375 inch	5
6	Ref.	Ground Controls (refer to figures 4-H and 4-I, pages 4-20 and 4-24)	—
7	45400	Spacer	4
8	6888	Screw - HHC, $\frac{1}{4}$ -20 x 1 inch, GR 5	4
9	6356	Washer - Lock, $\frac{1}{4}$ inch	8
10	6638	Washer - Flat, $\frac{1}{4}$ inch	10
11	21045	Level Sensor, 3°, 1 Second Delay	1
12	8915	Screw - HHC, $\frac{1}{4}$ -20 x 1.25 inch, GR 5	2
13	6091	Nut - Nylock, $\frac{1}{4}$ -20	2
14	27251	Shim - Engine Mount Slide Block	2*
15	25635	Wear Pad, 12 x 4 x 0.5 inch (30.5 x 10.2 x 1.3 cm)	2
16	5224	Nut - Low Profile Nylock, $\frac{3}{8}$ -16	1
17	6022	Nut - Hex Nut, $\frac{3}{8}$ -16 inch	1
18	13918	Screw - HHC, $\frac{3}{8}$ -16 x 1.75, GR 8	1
19	10597	Screw - HHC, $\frac{1}{2}$ -13 x 1.25 inch, GR 5	2
20	6033	Washer - Lock, $\frac{1}{2}$ inch	2
21	13066	Washer - Flat Hardened, $\frac{1}{2}$ inch	2
22	19331	Nut - Low Profile Nylock, 1-14 UNF	1
23	13775	Washer - Flat, 1.063 x 2 x 0.134 inch	1
24	31051P	Plate - Engine Pivot Mounting	1
25	45039	Hydraulic Power Unit - Lift Functions (refer to figure 3-C, page 3-10)	1

* Quantity listed for this item is approximate. Actual quantity may vary, to ensure proper fit.

This parts list continues on page 3-5.

FIGURE 3-A

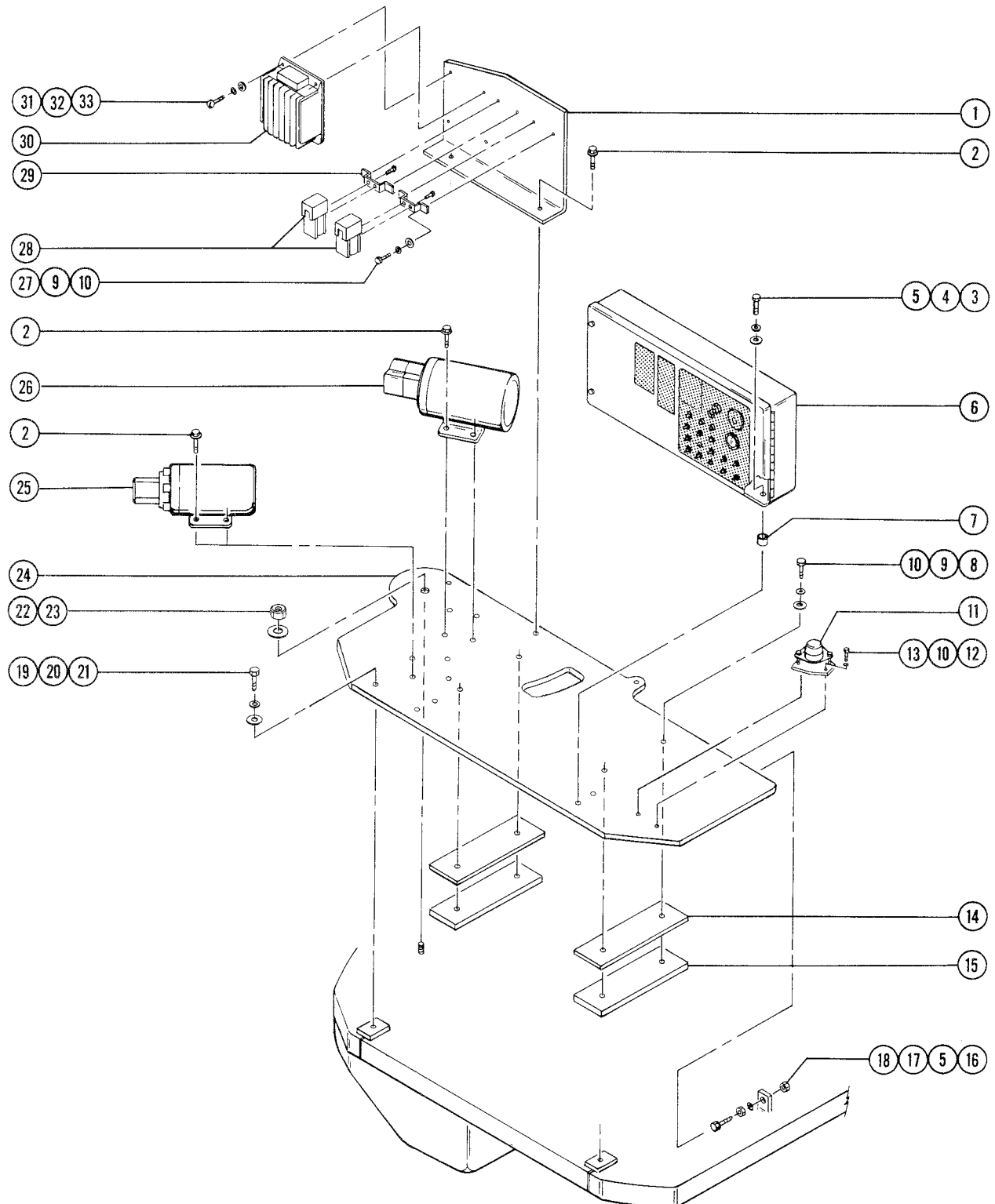


FIGURE 3-A

Index	Part No.	Description	Quantity This Figure
26	29633	Hydraulic Power Unit - Drive Functions (refer to figure 3-C, page 3-10)	1
27	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	4
28	29810	Contactor, 180A	2*
—	22264	Contact - Moveable	—
—	23845	Spring - Return	—
—	22265	Contact - Stationary	—
29	19815P	Bracket - Contactor Mounting	2
30	29501	Converter, 36V DC to 13.5V DC	1
—	31938	Fuse, 20A	—
31	5094	Screw - RHM, 10-32 x 0.5 inch	4
32	6607	Washer - Lock, No. 10	4
33	6146	Washer - Flat, No. 10	4

* Quantity listed may not reflect specific model configuration requirements.

Figure 3-B

Engine Pivot Mount Components - Engine Models

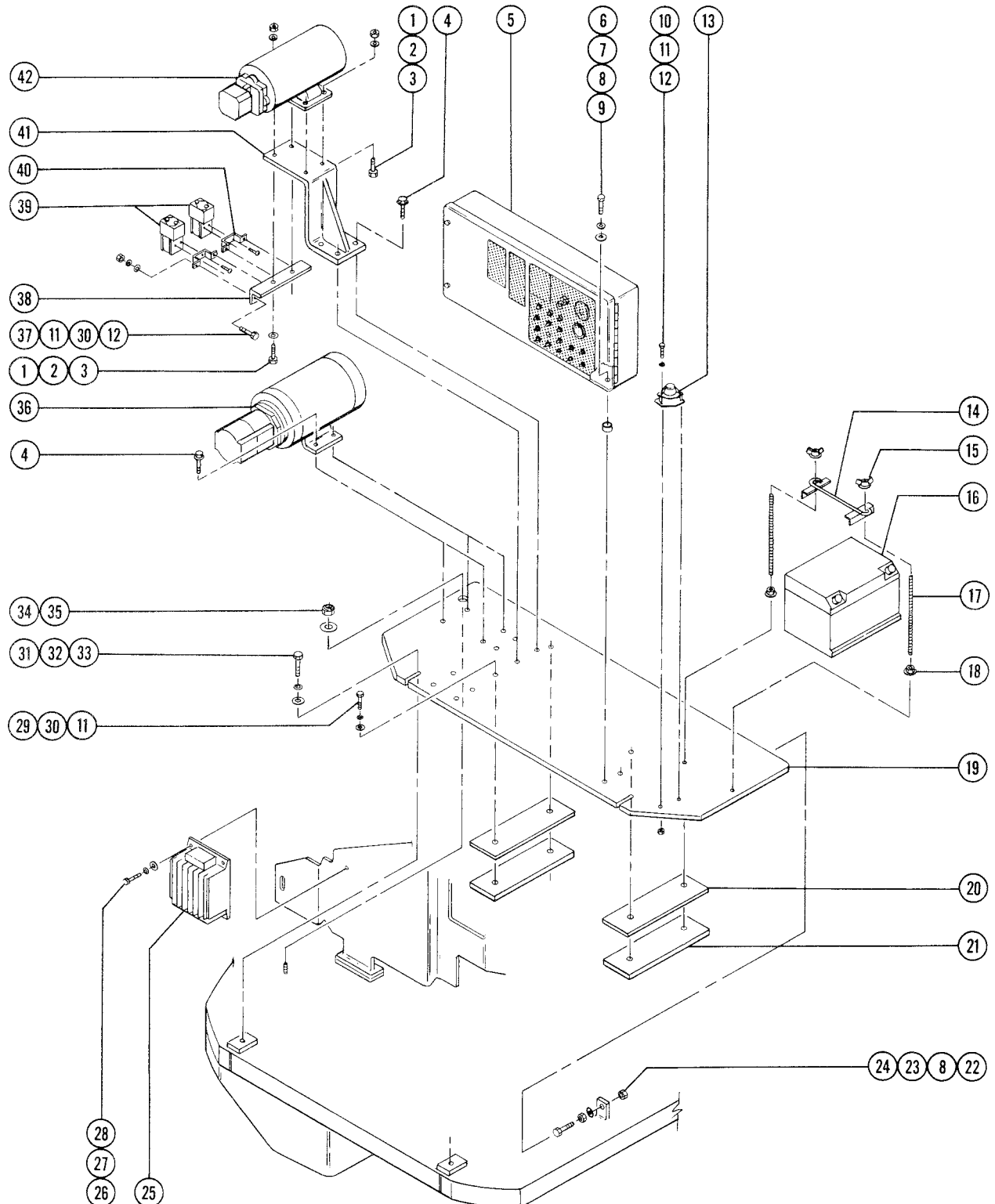


FIGURE 3-B

Index	Part No.	Description	Quantity This Figure
1	13000	Screw - HHC, $\frac{5}{16}$ -18 x 1.25 inch GR 5	4
2	6886	Washer - Lock, $\frac{5}{16}$ inch	4
3	6782	Nut - Nylock, $\frac{5}{16}$ -18	4
4	18506	Screw - Locking Flange, $\frac{5}{16}$ -18 x 0.75 inch	8
5	Ref.	Ground Controls (refer to figures 4-H and 4-I, pages 4-20 and 4-24)	—
6	6019	Screw - HHC, $\frac{3}{8}$ -16 x 1.25 inch, GR 5	4
7	6021	Washer - Lock, 0.375 inch	4
8	6097	Washer - Flat, 0.375 inch	4
9	45400	Spacer	4
10	8915	Screw - HHC, $\frac{1}{4}$ -20 x 1.25 inch, GR 5	2
11	6638	Washer - Flat, $\frac{1}{4}$ inch	10
12	6091	Nut - Nylock, $\frac{1}{4}$ -20	6
13	21045	Level Sensor, 3°, 1 Second Delay	1
14	19765	Battery Hold Down	1
15	8170	Nut - Wing, $\frac{1}{4}$ -20	2
16	22500	Battery - 12V DC, 875 Cold Cranking Amps	1
17	27506	Threaded Rod, $\frac{1}{4}$ -20 x 8.5 inches	2
18	18504	Nut - Locking Flange, $\frac{1}{4}$ -20	2
19	31051P	Plate - Engine Pivot Mounting	1
20	27251	Shim - Engine Mount Slide Block	2*
21	25635	Wear Pad, 12 x 4 x 0.5 inch (30.5 x 10.2 x 1.3 cm)	2
22	4828	Nut - Nylock, $\frac{3}{8}$ -16	1
23	6002	Nut - Low Profile Nylock, $\frac{5}{16}$ x 18 inch	1
24	13918	Screw - HHC, $\frac{3}{8}$ -16 x 1.75 GR 8	1

* Quantity listed for this item is approximate. Actual quantity may vary, to ensure proper fit.

This parts list continues on page 3-9.

FIGURE 3-B

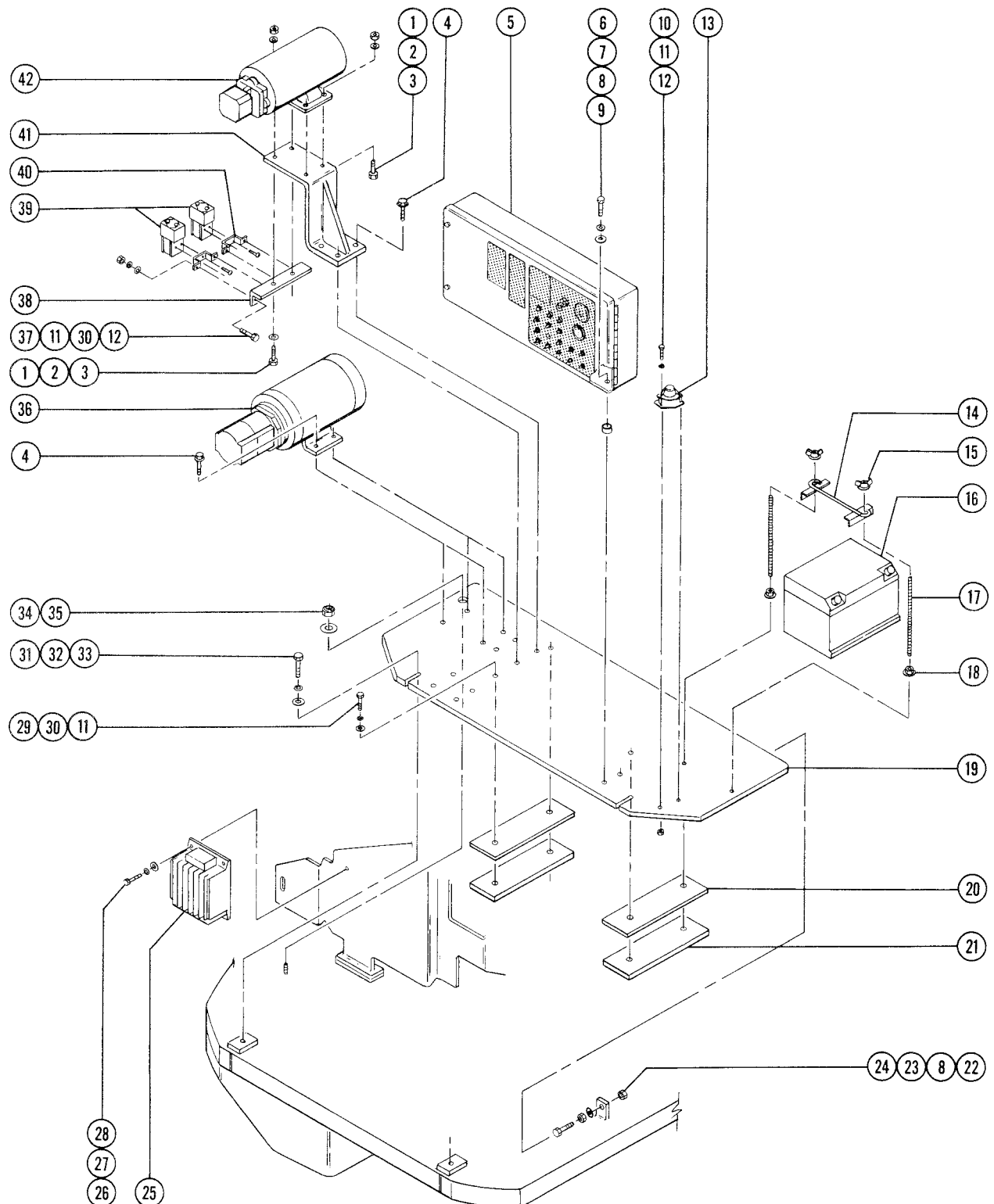


FIGURE 3-B

Index	Part No.	Description	Quantity This Figure
25	29501	Converter, 36V DC to 13.5V DC	1
—	31938	Fuse, 20A	—
26	5094	Screw - RHM, 10-32 x 0.5 inch	4
27	6607	Washer - Lock, No. 10	4
28	6146	Washer - Flat, No. 10	4
29	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	4
30	6356	Washer - Lock, 1/4 inch	8
31	10597	Screw - HHC, 1/2 -13 x 1.25 inch, GR 5	2
32	6033	Washer - Lock, 1/2 inch	2
33	13066	Washer - Flat Hardened, 1/2 inch	2
34	19331	Nut - Low Profile Nylock, 1-14 UNF	1
35	13775	Washer - Flat, 1.063 x 2 x 0.134	1
36	29633	Hydraulic Power Unit - Drive Functions (refer to figure 3-C, page 3-10)	1
37	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	4
38	31392	Bracket - Contactor Mount	1
39	29810	Contactor, 180A	2*
—	22264	Contact - Moveable	—
—	23845	Spring - Return	—
—	22265	Contact - Stationary	—
40	19815P	Bracket - Contactor Mount	2
41	31387	Weldment - Hydraulic Power Unit Mount	1
42	45039	Hydraulic Power Unit - Lift Functions (refer to figure 3-C, page 3-10)	1

* Quantity listed may not reflect specific model configuration requirements.

Figure 3-C

DC Power Units - Lift and Drive Functions

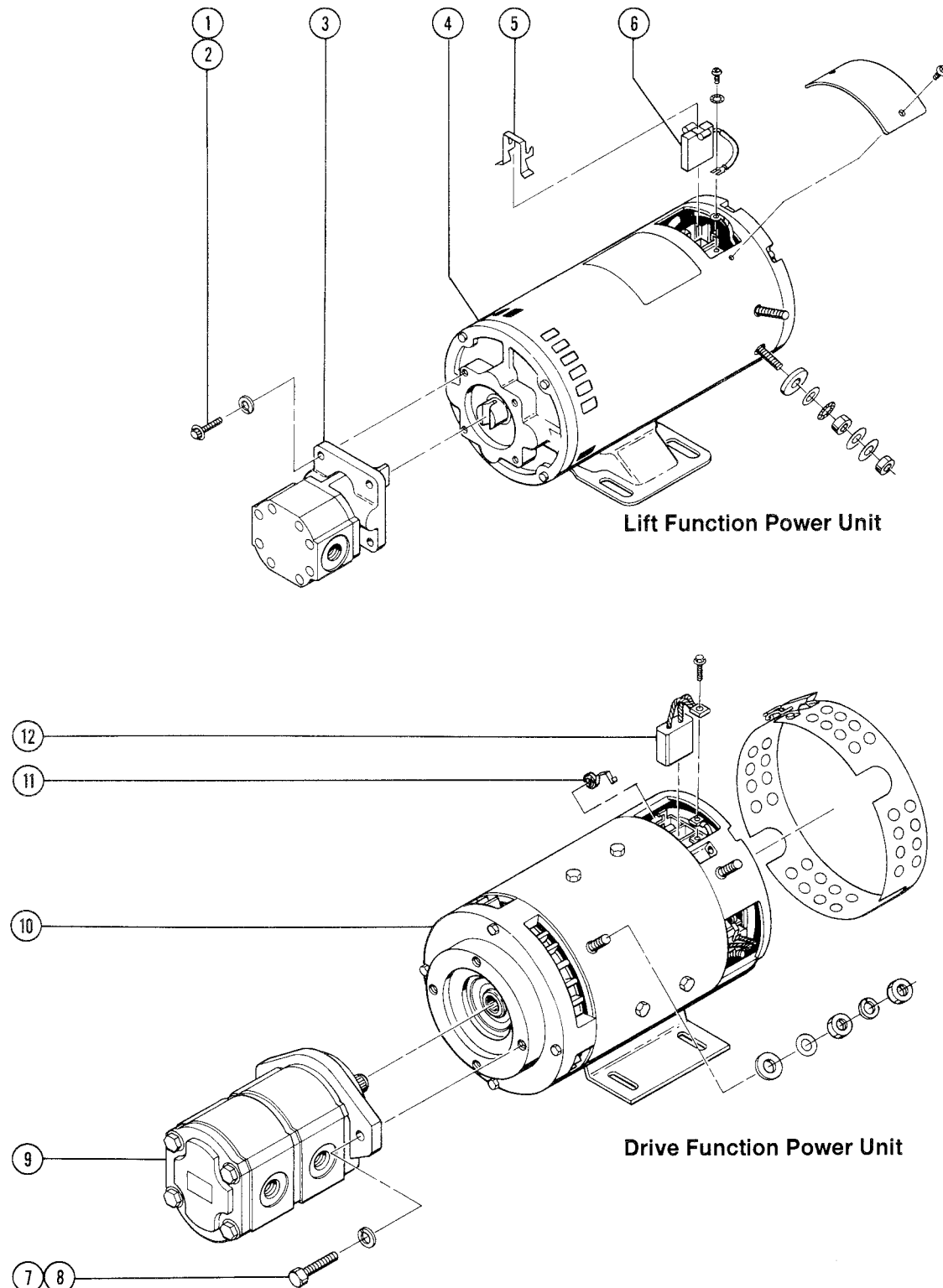


FIGURE 3-C

Index	Part No.	Description	Quantity This Figure
—	45039	DC Power Unit - Lift Function, Complete	—
—	29633	DC Power Unit - Drive Function, Complete	—
1	Ref.	Screw - Torx® Head, 5/16 -18 x 0.75 inch	—
2	Ref.	Washer - Lock, 5/16 -18	—
3	45511	Pump - 1 Section Gear	1
—	19151	Seal Kit - Gear Pump	—
4	45510	Motor - DC Power Unit	1
5	19149	Clip - Brush Retainer	2
6	18895	Brush with Spring - Lift Motor	2
7	Ref.	Screw - HHC, 3/8 -24 x 1.25 inch	2
8	Ref.	Washer - Lock, 3/8 inch	2
9	32073	Pump - 2 Section Gear	1
—	32074	Seal Kit - 2 Section Gear Pump	—
10	32075	Motor - DC Power Unit	1
11	32071	Spring - Brush Retainer	4
12	32072	Brush - Drive Motor	4

Figure 3-D

Kubota Gas Engine - View 1

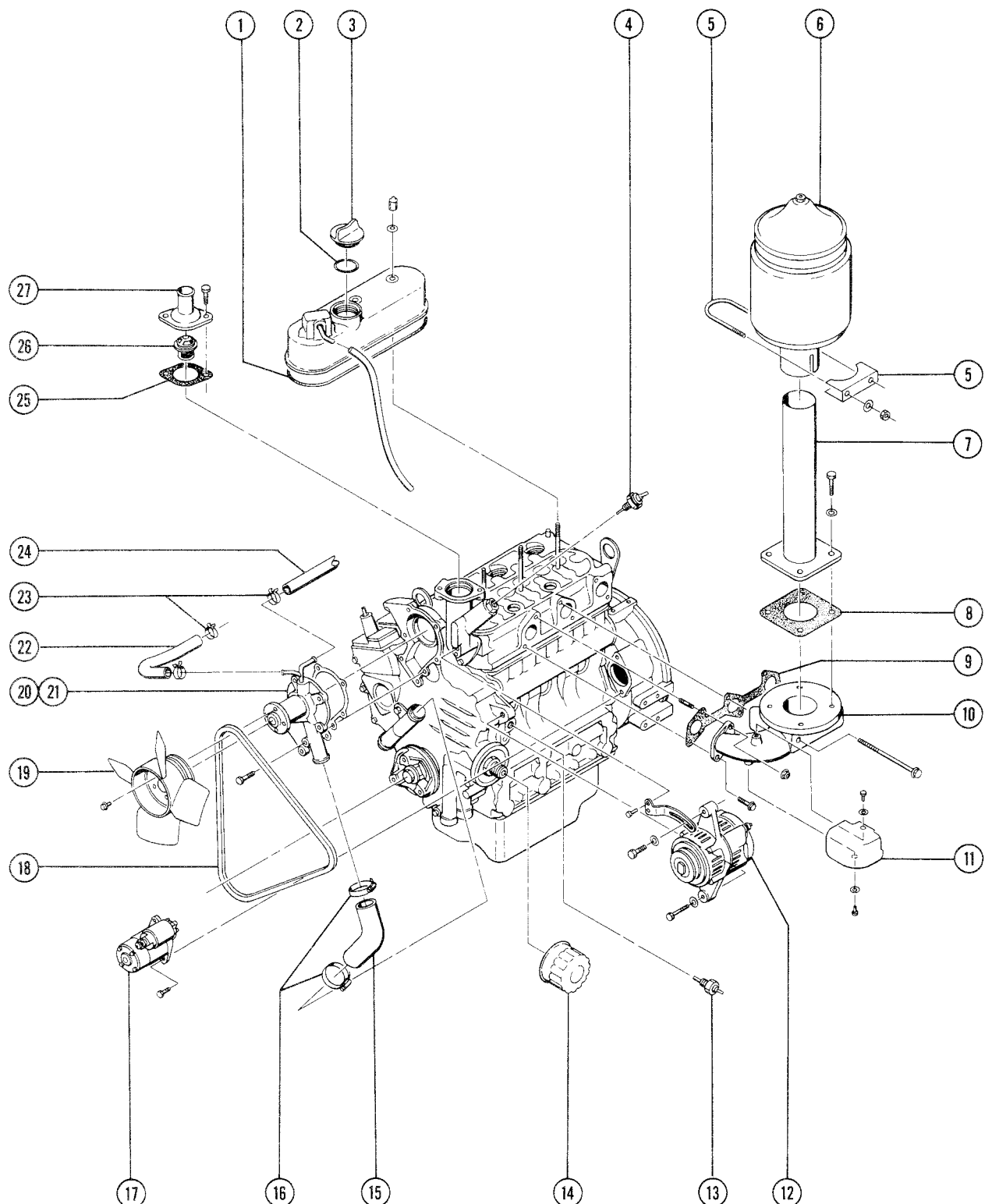


FIGURE 3-D

Index	Part No.	Description	Quantity This Figure
1	23453	Gasket - Valve Cover (Kubota Part Number 16861-1452-0)	1
2	22903	O-Ring - Oil Filler Plug (Kubota Part Number 04811-50300)	1
3	32186	Plug - Oil Filler (Kubota Part Number 32240-2141-0)	1
4	23563	Switch - Temperature	1
5	32064	Clamp - Muffler, 1.75 inches	1
6	22046	Muffler	1
7	31368P	Weldment - Exhaust Extension	1
8	27363	Gasket - Muffler (Kubota Part Number 15371-1237-0)	1
9	23455	Gasket - Exhaust Manifold (Kubota Part Number 15861-1235-0)	1
10	32065	Exhaust Manifold (Kubota Part Number 19024-1231-0)	1
11	32215	Heat Shield	1
12	32187	Alternator, 30A (Kubota Part Number 16321-6401-0)	1
13	23449	Switch - Oil Pressure (Kubota Part Number 15841-3901-0)	1
14	22106	Filter - Oil (Kubota Part Number 70000-15421)	1
15	32067	Hose - Water Pump (Kubota Part Number 15881-7287-0)	1
16	32066	Clamp - Hose (Kubota Part Number 09318-8903-0)	2
17	23456	Starter Motor (Kubota Part Number 15852-6301-0)	1
—	23457	Solenoid - Starter Motor (Kubota Part Number 15852-6302-0)	—
18	22831	V-Belt (Kubota Part Number 15881-9701-0)	1
19	23479	Fan (Kubota Part Number 15881-7411-0)	1
20	23471	Pump - Water (Kubota Part Number 12691-7303-0)	1
21	23472	Gasket - Water Pump (Kubota Part Number 15881-7343-0)	1
22	32068	Hose - Water Pump Return (Kubota Part Number 12691-7335-0)	1
23	32069	Clamp - Hose (Kubota Part Number 16241-7336-0)	4
24	32070	Hose - Water Pump Return (Kubota Part Number 12691-7337-0)	1
25	27366	Gasket - Thermostat (Kubota Part Number 16851-73270)	1
26	23473	Thermostat (Kubota Part Number 19203-7301-0)	1
27	27367	Housing - Thermostat (Kubota Part Number 15841-7326-0)	1

Figure 3-E

Kubota Gas Engine - View 2

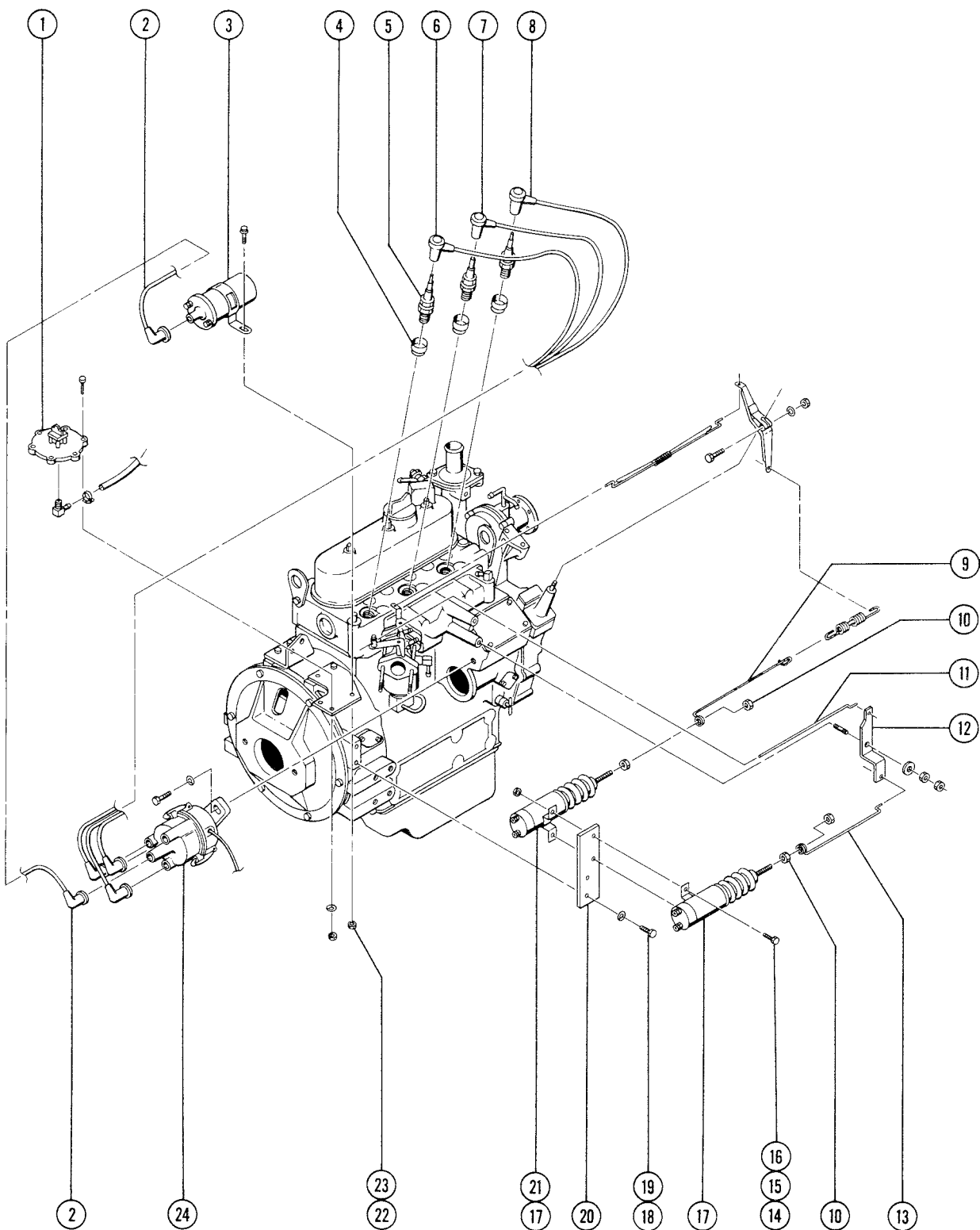


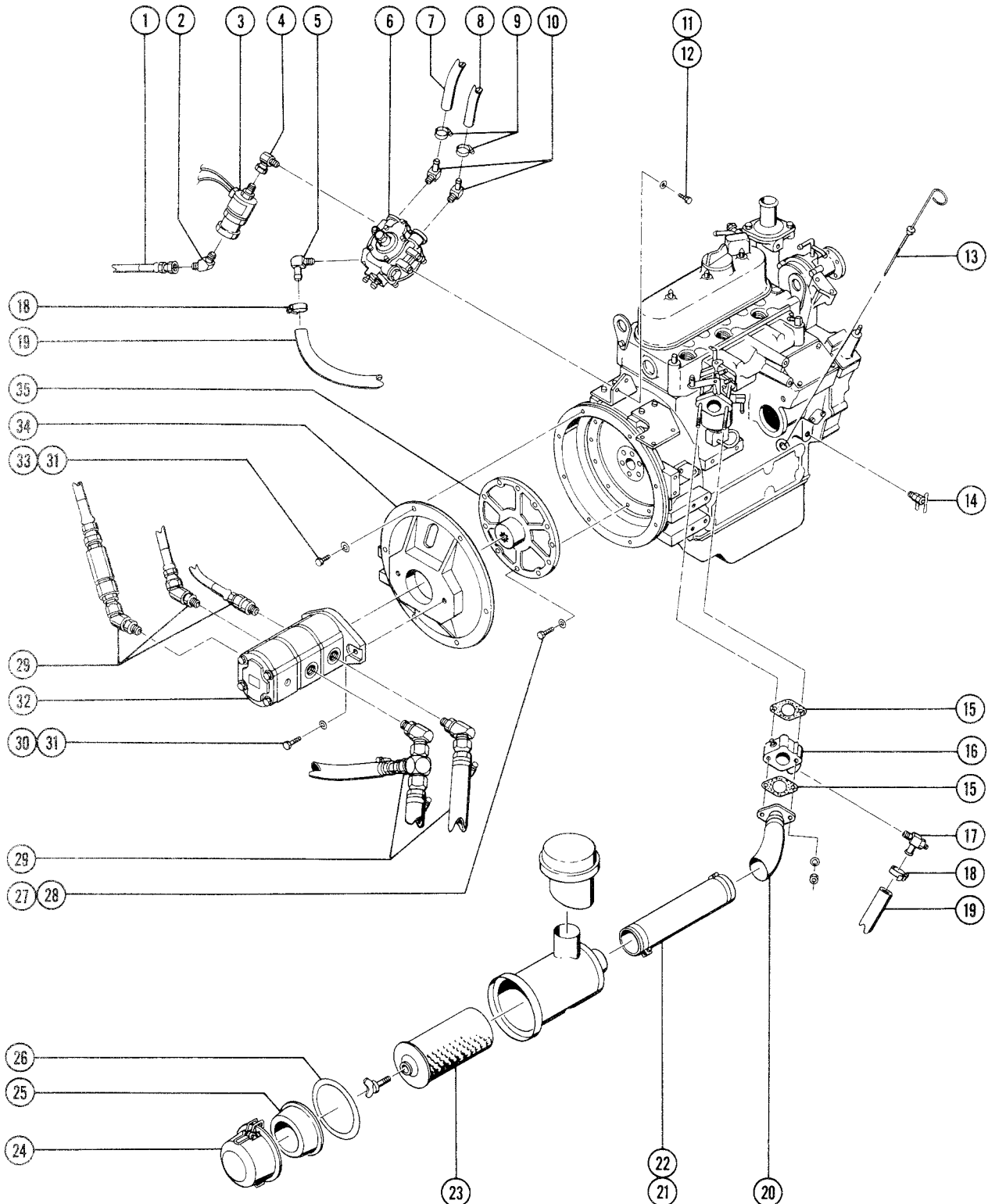
FIGURE 3-E

Index	Part No.	Description	Quantity This Figure
1	22278	Switch - Vacuum	1
2	23459	Wire - Ignition Coil (Kubota Part Number 12691-6751-0)	1
3	32076	Coil - Ignition (Kubota Part Number 12581-6890-0)	1
4	23463	Cap - Spark Plug (Kubota Part Number 12581-6772-0)	3
5	23458	Spark Plug (Kubota Part Number 12691-6771)	3
6	23462	Wire - Number 3 Spark Plug (Kubota Part Number 12691-6754)	1
7	23461	Wire - Number 2 Spark Plug (Kubota Part Number 12691-6753)	1
8	23460	Wire - Number 1 Spark Plug (Kubota Part Number 12691-6752)	1
9	22983	Rod - Throttle	1
10	21496	Nut - Hex, 1/4 -28	4
11	31350	Rod - Choke, Upper	1
12	22955P	Crank - Choke	1
13	22956	Rod - Choke, Lower	1
14	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	2
15	6638	Washer - Flat, 1/4 inch	2
16	6091	Nut - Nylock, 1/4 -20	2
17	20780	Solenoid - 2 Speed	2
18	22586	Screw - HHC, M8 x 20 mm, GR 8.8	2
19	6021	Washer - Lock, 0.375 inch	2
20	22954P	Bracket, 2 Speed Solenoid Mount	1
21	22446	Spring - Choke Return (concealed from view)	1
22	6782	Nut - Nylock, 5/16 -18	1
23	18506	Screw - Locking Flange, 5/16 -18 x 0.75 inch	1
24	23478	Distributor Assembly, Complete (Kubota Part Number 12581-6880-0)	1
—	23465	Cap - Distributor (Kubota Part Number 12581-6867-0)	—
—	23464	Rotor - Distributor (Kubota Part Number 12581-6865-0)	—

Figure 3-F

Kubota Gas Engine - View 3

REV B



REV B

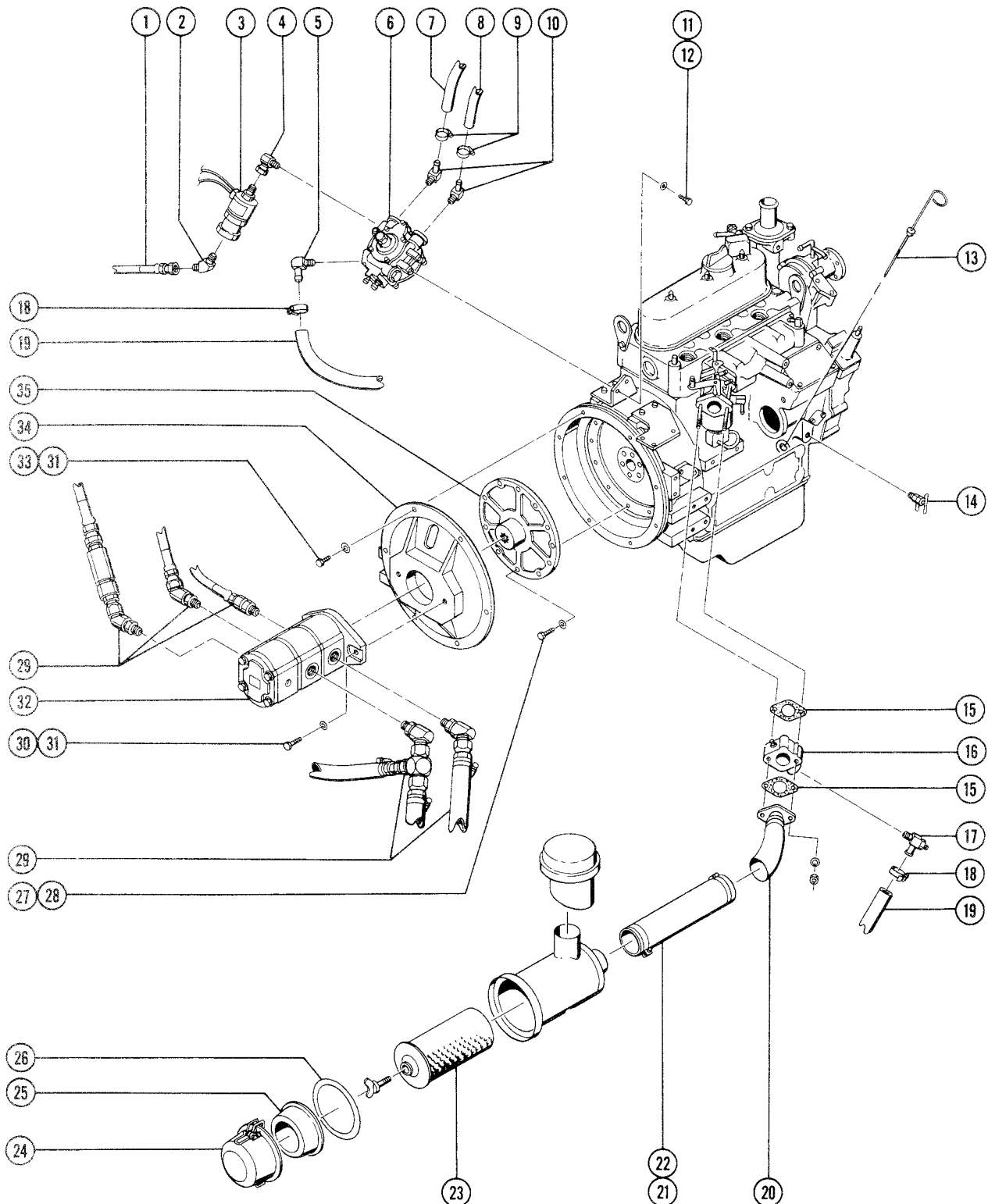
FIGURE 3-F

Index	Part No.	Description	Quantity This Figure
1	31396	Hose Assembly - Liquid Propane	1
2	19861	Fitting - 45° Elbow, 4 MPT x 6 JIC (SAE 010302)	1
3	27010	Valve - LPG Shutoff with Filter, 12V	1
4	31823	Fitting - 90° Swivel Elbow, 4 FPT x 4 MPT (SAE 080221)	1
5	31821	Fitting - 90° Elbow, 6 MPT x 1/2 inch Barb (SAE 430260)	1
6	22279	Regulator, LPG	1
7	Ref.	Hose - 3/8 x 16 inches (40.6 cm)	—
8	Ref.	Hose - 3/8 x 6 inches (15.2 cm)	—
9	21465	Clamp - Hose, 0.5 inch	4
10	31817	Fitting - 90° Elbow, 4 MPT x 3/8 inch Barb (SAE 430260)	2
11	6090	Screw - HHC, 1/4 -20 x 3/4 inch, GR 5	2
12	6356	Washer - Lock, 1/4 inch	2
13	32219	Dipstick (Kubota Part Number 16851-3641-0)	1
14	32077	Petcock - Drain (Kubota Part Number 15841-7302-0)	1
15	32080	Gasket - Air Cleaner Flange (Kubota Part Number 13961-1151-0)	2
16	23192	Carburetor Ring Kit (includes index numbers 14 through 16)	1
17	32081	Valve - Jet Cock	1
18	19273	Clamp - Hose, 0.75 inch	2
19	Ref.	LP Hose, 5561, MH8749UHO x 25.5 inches (64.7 cm)	—
20	32082	Flange - Air Cleaner (Kubota Part Number 12692-1161-0)	1
21	31944-950	Hose - Air Cleaner	1
22	32084	Clamp - Hose, Air Cleaner (Kubota Part Number 15221-1172-0)	2
23	22107	Element - Air Cleaner (Kubota Part Number 70000-11221)	1
24	22943	Cover - Air Cleaner (Kubota Part Number 15241-1116-0)	1
25	32078	Baffle - Air Cleaner Cover (Kubota Part Number 15221-1141-0)	1
26	27360	Gasket - Air Cleaner Cover (Kubota Part Number 15221-1117-0)	1
27	13000	Screw - HHC, 5/16 -18 x 1.25 inch, GR 5	6

This parts list continues on page 3-19.

FIGURE 3-F

REV B



REV B

FIGURE 3-F

Index	Part No.	Description	Quantity This Figure
28	6886	Washer - Lock, $\frac{5}{16}$ inch	6
29	Ref.	Hydraulic Hoses & Fittings (refer to figures 4-M or 4-N, pages 4-34 or 4-40)	—
30	6019	Screw - HHC, $\frac{3}{8}$ -16 x 1.25 inch, GR 5	2
31	6021	Washer - Lock, 0.375 inch	10
32	31049	Pump - Three Section Gear	1
—	58300	Seal Kit - Three Section Gear Pump	—
33	6175	Screw - HHC, $\frac{3}{8}$ -16 x 1 inch , GR 5	8
34	24520	Plate - Pump Mount	1
35	31355	Drive Plate with Splined Coupler, 9 Tooth	1
—	32079	Splined Coupler, 9 Tooth	—

Figure 3-G

Kubota Gas Engine - View 4

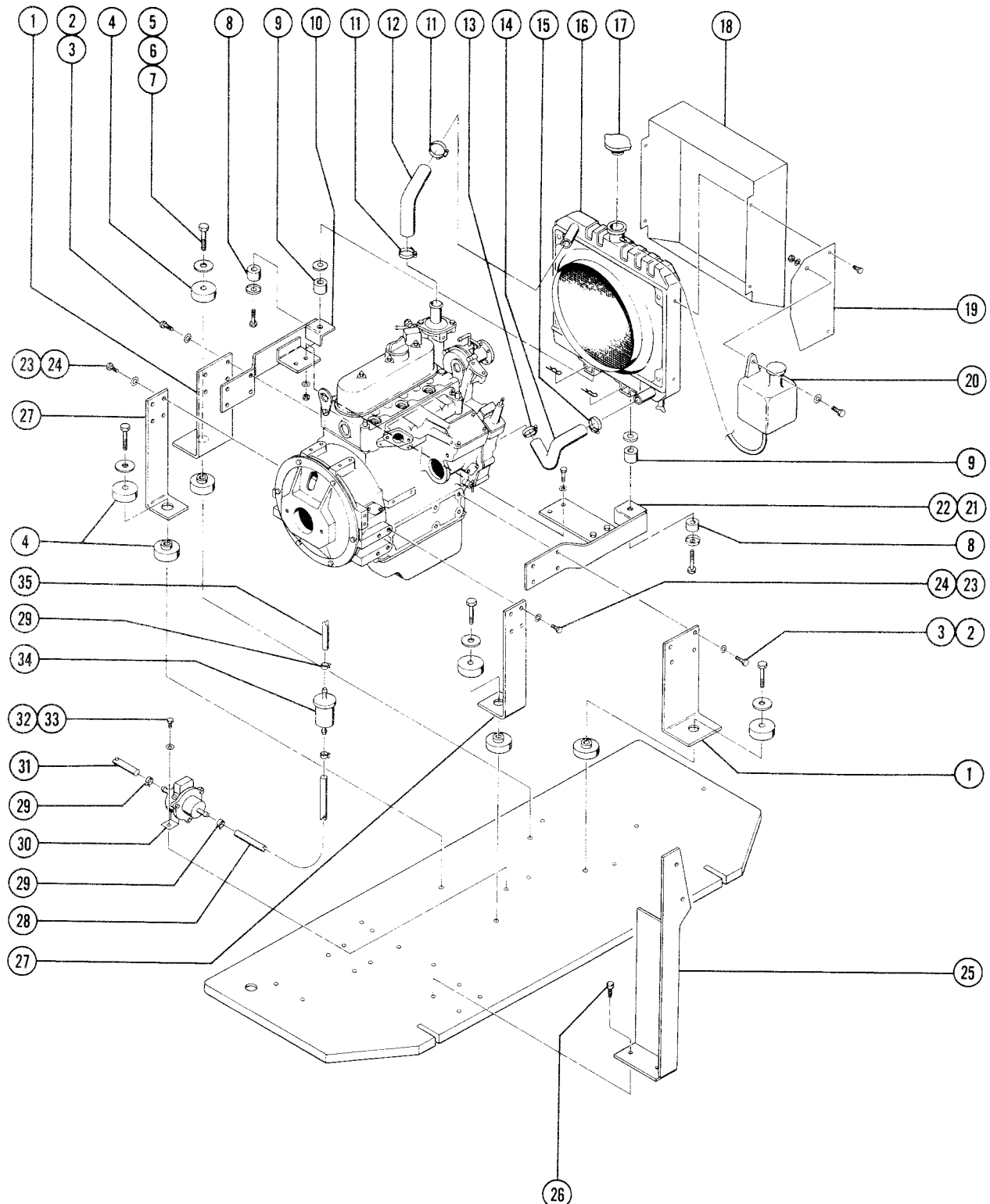


FIGURE 3-G

Index	Part No.	Description	Quantity This Figure
1	31127P	Bracket - Engine Mount, Radiator End	2
2	22676	Screw - HHC, M10 x 30 mm, GR 8.8	8
3	22700	Washer - Lock, M10	8
4	24037	Shock Mount - Large	8
5	8357	Screw - HHC, 1/2 -13 x 3.5 inch, GR 5	4
6	24040	Washer - Fender, 1/2 inch	4
7	6198	Nut - Nylock, 1/2 -13	4
8	28155	Cushion - Radiator (Kubota Part Number 15111-7218-0)	2
9	28156	Cushion - Radiator (Kubota Part Number 15111-7219-0)	2
10	32085	Bracket - Radiator Support, Inboard (Kubota Part Number 12586-7214-0)	1
11	32087	Clamp - Hose (Kubota Part Number 09318-89036)	2
12	32088	Hose - Upper Radiator (Kubota Part Number 12691-7294-0)	1
13	32092	Clamp - Hose (Kubota Part Number 15841-7296-0)	1
14	32090	Hose - Lower Radiator (Kubota Part Number 12691-7285-0)	1
15	32066	Clamp - Hose (Kubota Part Number 09318-89030)	1
16	32089	Radiator (Kubota Part Number 12691-7206-0)	1
17	23061	Cap - Radiator, 13 psi (0.90 bar)	1
18	31370P	Shroud - Radiator	1
19	31391P	Bracket - Coolant Return Tank Mount	1
20	22513	Coolant Return Tank with Hose	1
21	32086	Bracket - Radiator Support, Outboard (Kubota Part Number 12586-7213-0)	1
22	28963	Plate - Radiator (Kubota Part Number 19416-7215-0)	1
23	10597	Screw - HHC, 1/2 -13 x 1.25 inch, GR 5	8
24	6033	Washer - Lock, 1/2 inch	8
25	31349P	Bracket - Air Filter Mounting	1
26	18506	Screw - Locking Flange, 5/16 -18 x 0.75 inch	2

This parts list continues on page 3-23.

FIGURE 3-G

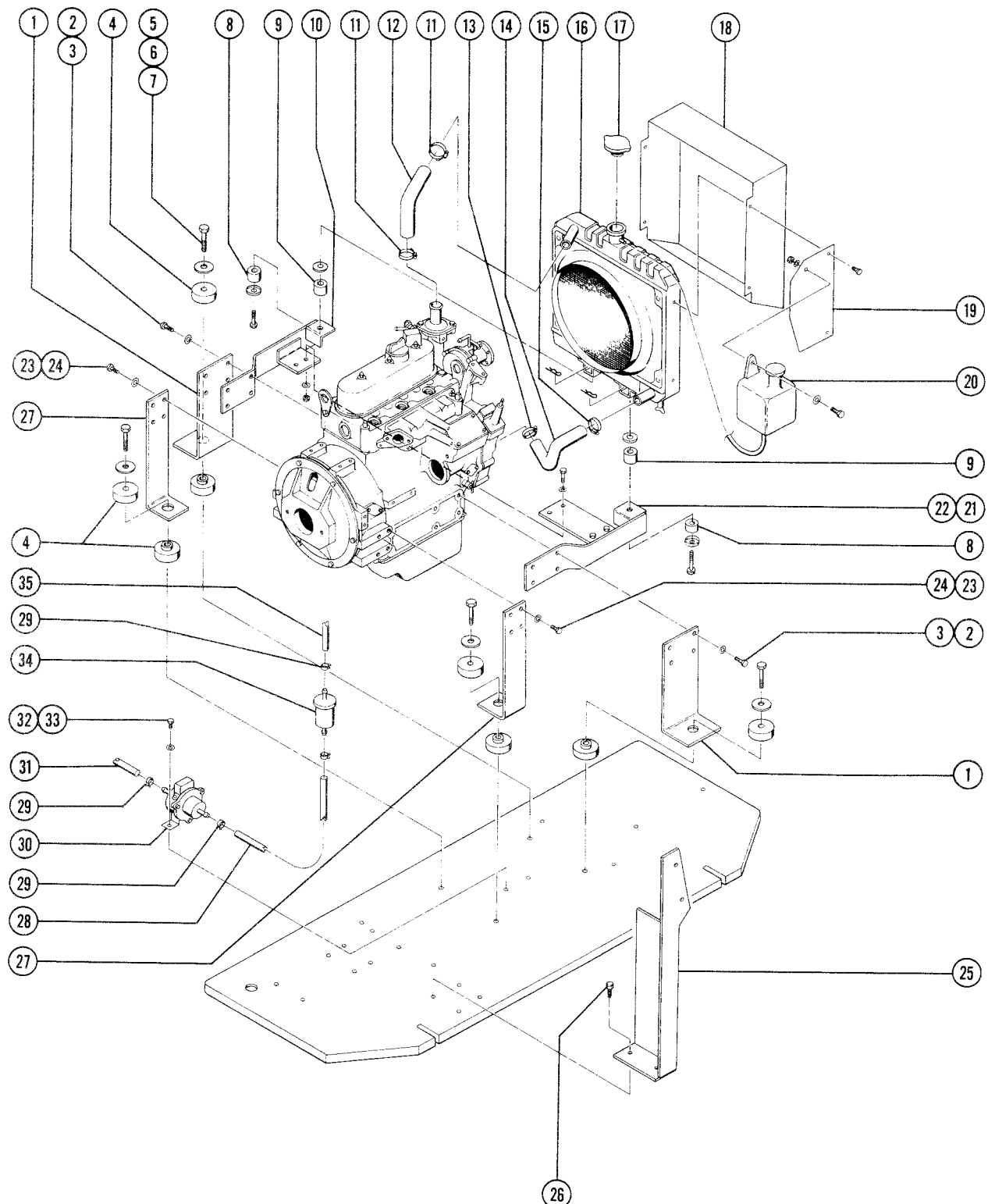


FIGURE 3-G

Index	Part No.	Description	Quantity This Figure
27	31040P	Bracket - Engine Mount, Flywheel End	2
28	Ref.	Hose - Gasoline, 0.25 inch ID x 13 inches (SAE 30R7)	—
29	21465	Clamp - Hose, 0.5 inch	4
30	23167	Fuel Pump	1
31	Ref.	Hose - Gasoline, 0.25 inch ID x 44 inches (SAE 30R7)	—
32	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	2
33	6356	Washer - Lock, 1/4 inch	2
34	23168	Filter - Fuel	1
35	Ref.	Hose - Gasoline, 0.25 inch ID x 6 inches (SAE 30R7)	—

Figure 3-H

Kubota Diesel Engine - View 1

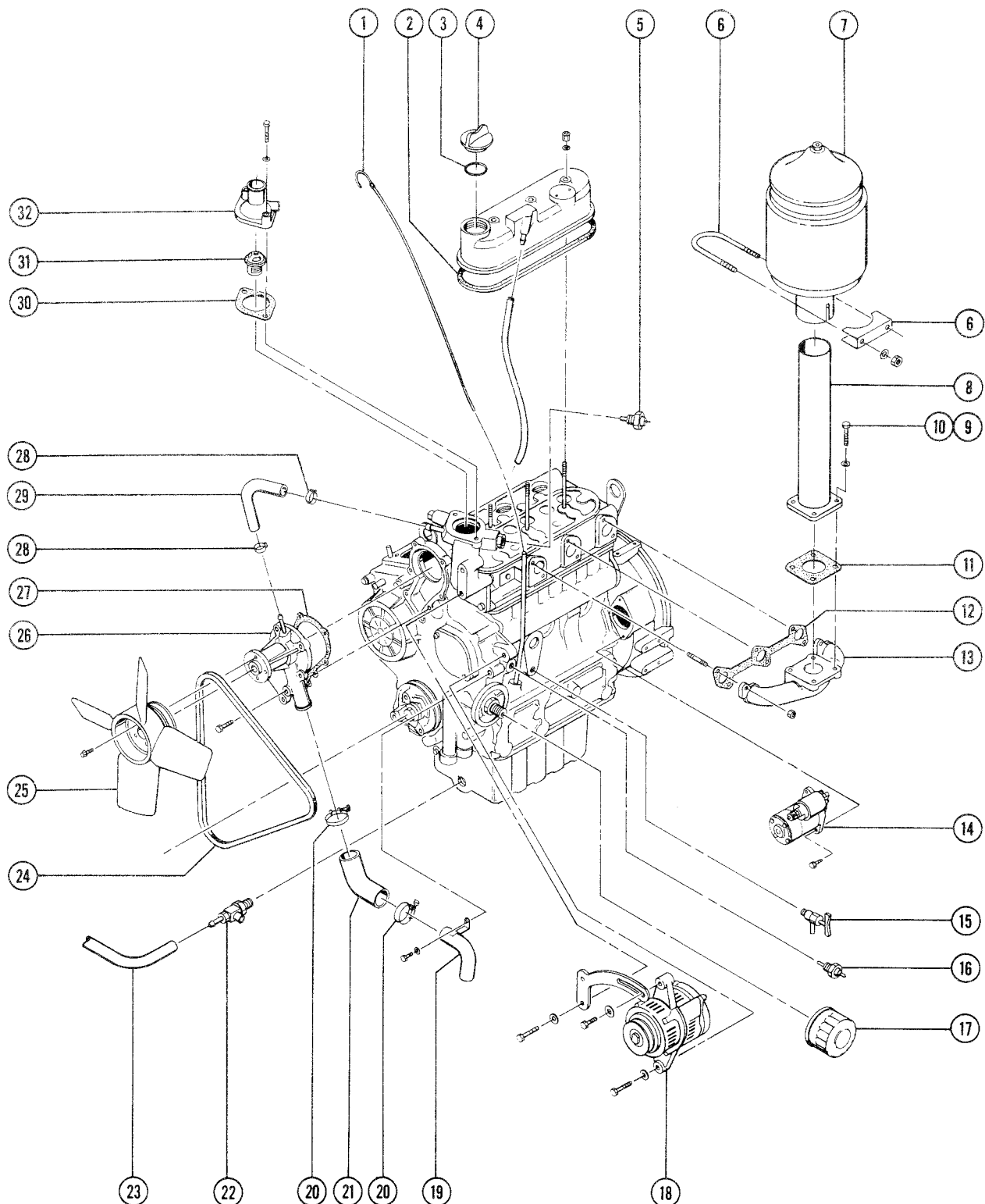


FIGURE 3-H

Index	Part No.	Description	Quantity This Figure
1	32188	Dipstick (Kubota Part Number 16241-3642-0)	1
2	32189	Gasket - Valve Cover (Kubota Part Number 16261-1452-0)	1
3	32190	Plug - Oil Filler (Kubota Part Number 15221-3314-0)	1
4	22903	O-Ring - Oil Filler Plug (Kubota Part Number 04811-5030-0)	1
5	23563	Switch - Temperature	1
6	32064	Clamp - Muffler, 1.75 inches	1
7	22046	Muffler	1
8	31368P	Weldment - Exhaust Extension	1
9	22586	Screw - HHC, M8 x 20 mm, GR 8.8	4
10	Ref.	Washer - Lock, M8	—
11	27363	Gasket - Muffler (Kubota Part Number 15371-1237-0)	1
12	32191	Gasket - Exhaust Manifold (Kubota Part Number 16261-1236-0)	1
13	32192	Exhaust Manifold (Kubota Part Number 16265-1231-0)	1
14	32193	Starter Motor (Kubota Part Number 16225-6301-0)	1
—	32194	Solenoid - Starter Motor (Kubota Part Number 16225-6302-0)	—
15	32077	Petcock - Drain (Kubota Part Number 15841-7302-0)	1
16	23449	Switch - Oil Pressure (Kubota Part Number 15841-3901-0)	1
17	22106	Filter - Oil (Kubota Part Number 70000-15241)	1
18	32187	Alternator, 30A (Kubota Part Number 16321-6401-0)	1
19	32195	Hose - Lower Radiator (Kubota Part Number 16286-7285-0)	1
20	32066	Clamp - Hose (Kubota Part Number 09318-8903-0)	2
21	32067	Hose - Water Pump (Kubota Part Number 15881-7287-0)	1
22	31702	Valve - Oil Drain	1
23	Ref.	Hose, 3/8 x 22 inches, (H20106)	—
24	32196	V-Belt (Kubota Part Number 16282-9701-0)	1
25	32197	Fan (Kubota Part Number 16225-7411-0)	1

This parts list continues on page 3-27.

FIGURE 3-H

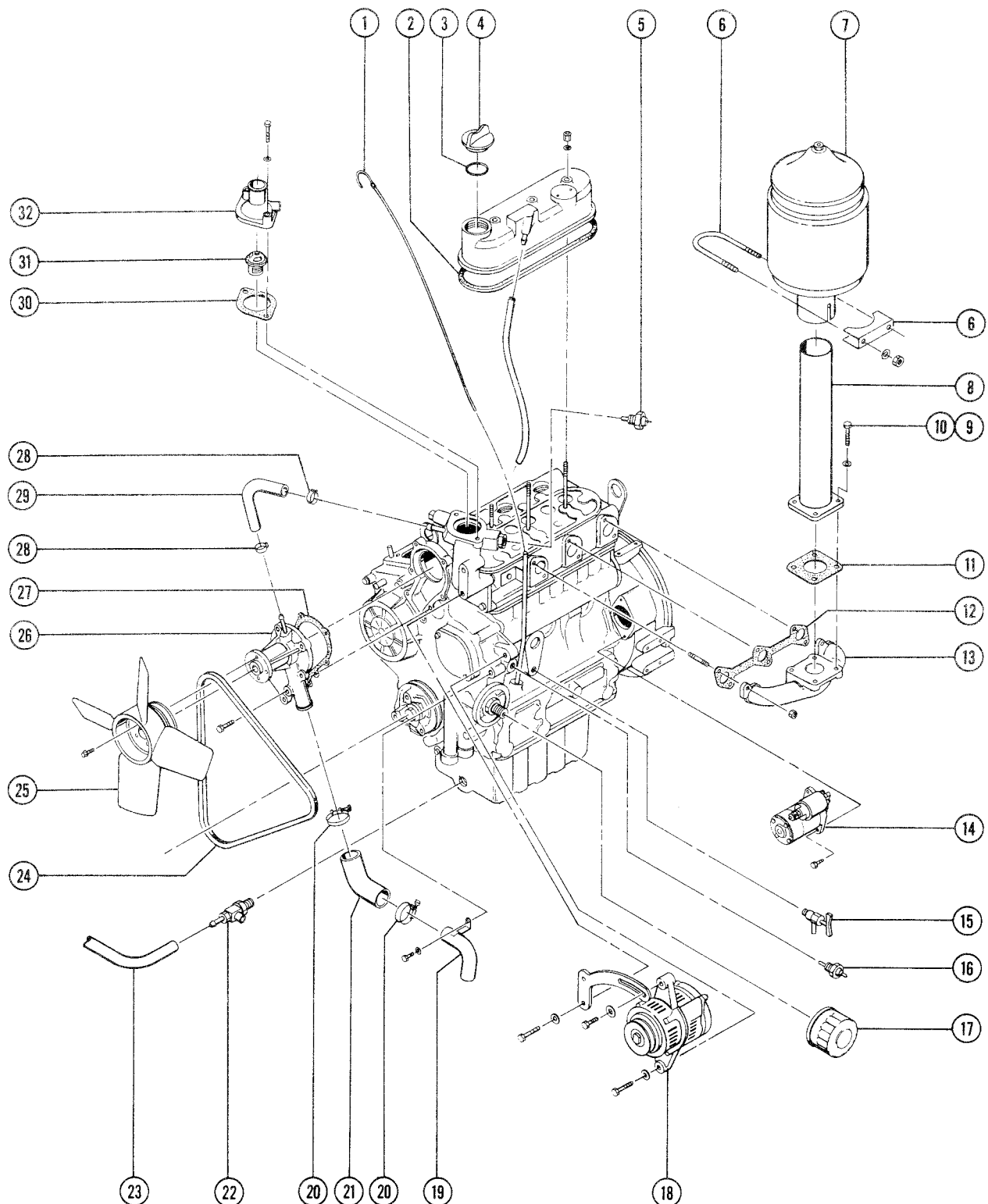


FIGURE 3-H

Index	Part No.	Description	Quantity This Figure
26	32198	Pump - Water (Kubota Part Number 16241-7303-0)	1
27	32199	Gasket - Water Pump (Kubota Part Number 16241-7343-0)	1
28	32069	Clamp - Hose (Kubota Part Number 16241-7336-0)	4
29	32200	Hose - Water Pump Return (Kubota Part Number 16241-7335-0)	1
30	27366	Gasket - Thermostat (Kubota Part Number 16851-7327-0)	1
31	23473	Thermostat (Kubota Part Number 19203-7301-0)	1
32	32201	Housing - Thermostat (Kubota Part Number 16271-7326-0)	1

Figure 3-I

Kubota Diesel Engine - View 2

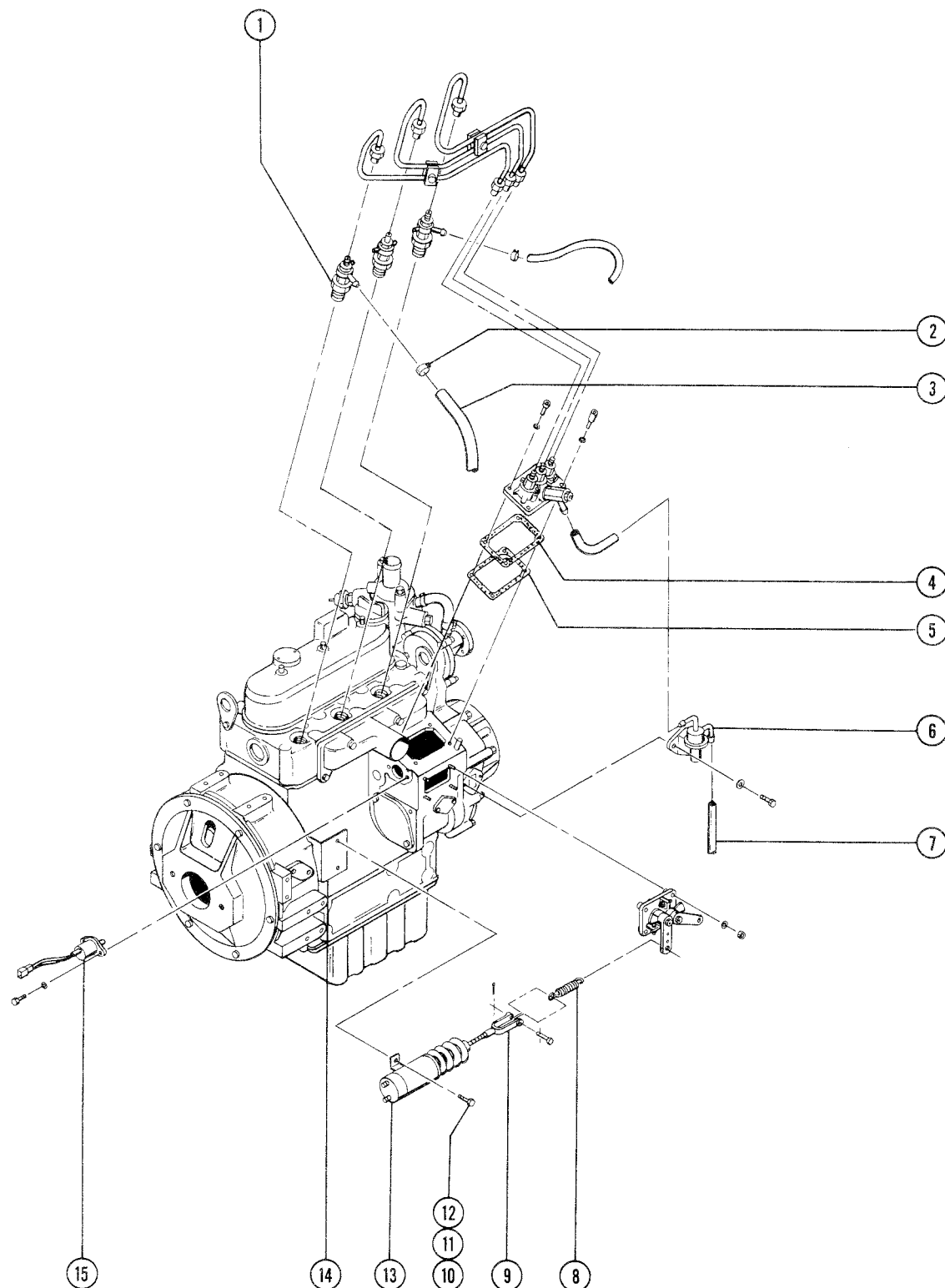


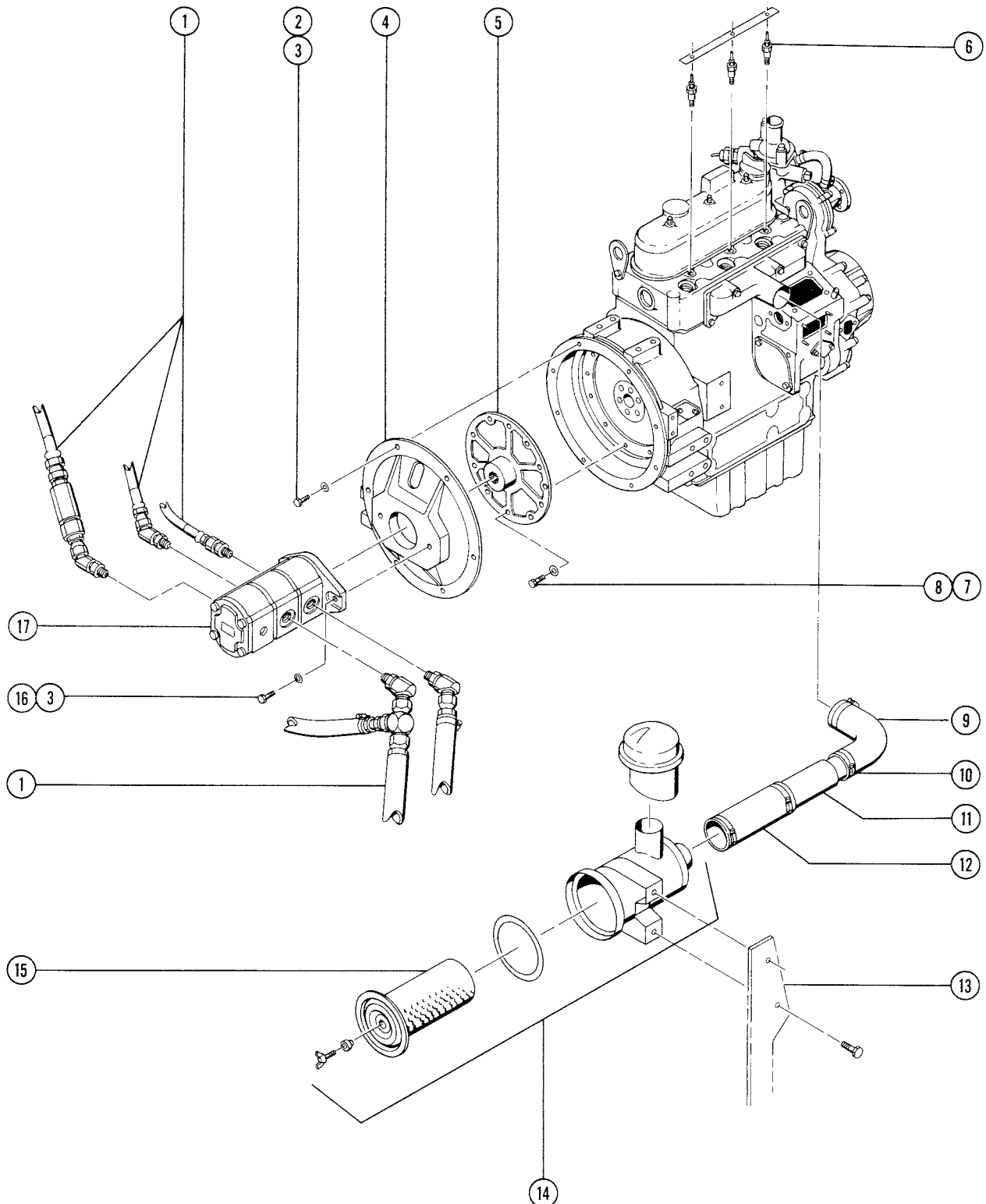
FIGURE 3-I

Index	Part No.	Description	Quantity This Figure
1	32102	Injector - Fuel (Kubota Part Number 16261-5300-0)	3
2	21465	Clamp - Hose, 0.5 inch	1
3	Ref.	Hose - Gasoline, 0.25 inch ID x 84 inches (SAE 30R7)	—
4	32103	Gasket - Injection Pump (Kubota Part Number 15861-5211-0)	1
5	32182	Gasket - Injection Pump (Kubota Part Number 15861-5212-0)	1
6	32202	Pump Assembly - Fuel (Kubota Part Number 16285-5203-0)	1
—	32203	Gasket - Fuel Pump (Kubota Part Number 15841-5214-0)	—
7	Ref.	Hose - Gasoline, 0.25 inch ID x 9 inches (SAE 30R7)	—
8	31379	Spring - Speed Control	1
9	21130	Clevis Yoke, 1/4 -28 (includes clevis pin)	1
10	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	2
11	6638	Washer - Flat, 1/4 inch	2
12	6091	Nut - Nylock, 1/4 -20	2
13	20780	Solenoid - 2 Speed	1
14	31375P	Bracket - Solenoid Mounting	1
15	32183	Solenoid - Fuel Shutoff (Kubota Part Number 16616-6001-0)	1

Figure 3-J

Kubota Diesel Engine - View 3

REV B



REV B

FIGURE 3-J

Index	Part No.	Description	Quantity This Figure
1	Ref.	Hydraulic Hoses & Fittings (refer to figures 4-M or 4-N, pages 4-34 or 4-40)	—
2	8255	Screw - HHC, $\frac{3}{8}$ -16 x 0.75 inch, GR 5	8
3	6021	Washer - Lock, 0.375 inch	10
4	24520	Plate - Pump Mounting	1
5	31355	Drive Plate with Splined Coupler, 9 Tooth	1
—	32079	Splined Coupler, 9 Tooth	—
6	28058	Glow Plug (Kubota Part Number 15521-6551-0)	3
7	13000	Screw - HHC, $\frac{5}{16}$ -18 x 1.25 inch, GR 5	6
8	6886	Washer - Lock, $\frac{5}{16}$ inch	6
9	28976	Pipe - Air Inlet (Kubota Part Number 19412-1162-0)	1
10	22692	Clamp - Hose, 1.75 inches	4
11	31397	Adapter - Air Filter Hose	1
12	31403	Hose - Air Filter	1
13	31349P	Bracket - Air Filter Mounting	1
14	32184	Air Cleaner Assembly - Complete (Kubota Part Number 16616-1101-0) (includes index number 15)	—
15	31745	Element - Air Cleaner (Kubota Part Number 15741-1108-0)	1
16	6019	Screw - HHC, $\frac{3}{8}$ -16 x 1.25 inch, GR 5	2
17	31049	Pump - Three Section Gear	1
—	58300	Seal Kit - Three Section Gear Pump	—

Figure 3-K

Kubota Diesel Engine - View 4

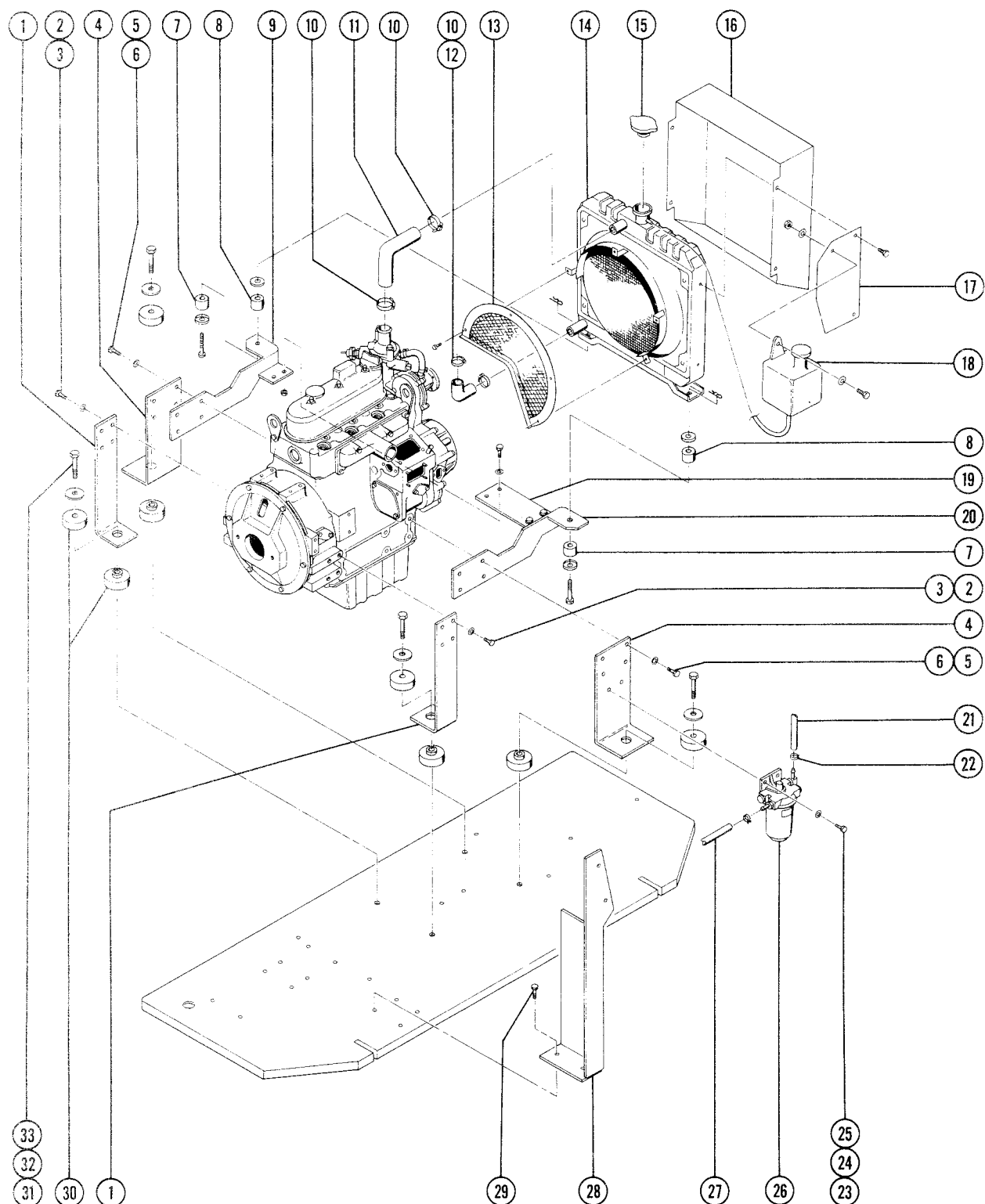


FIGURE 3-K

Index	Part No.	Description	Quantity This Figure
1	31040P	Bracket - Engine Mount, Flywheel End	2
2	6033	Washer - Lock, 1/2 inch	8
3	10597	Screw - HHC, 1/2 -13 x 1.25 inch, GR 5	8
4	29542P	Bracket - Engine Mount, Radiator End	2
5	22676	Screw - HHC, M10 x 30 mm, GR 8.8	8
6	22700	Washer - Lock, M10	8
7	28155	Cushion - Radiator (Kubota Part Number 15111-7218-0)	2
8	28156	Cushion - Radiator (Kubota Part Number 15111-7219-0)	2
9	32204	Bracket - Radiator Support, Inboard (Kubota Part Number 16616-7214-0)	1
10	32185	Clamp - Radiator Hose (Kubota Part Number 36200-8272-0)	4
11	32205	Hose - Upper Radiator (Kubota Part Number 16266-7294-0)	1
12	32195	Hose - Lower Radiator (Kubota Part Number 16286-7285-0)	1
13	32206	Guard - Fan (Kubota Part Number 16613-7412-0)	1
14	32207	Radiator Assembly (Kubota Part Number 16613-7206-0)	1
15	23061	Cap - Radiator, 13 psi (0.90 bar)	1
16	31380P	Shroud - Radiator	1
17	31391P	Bracket - Coolant Return Tank Mount	1
18	22513	Coolant Return Tank with Hose	1
19	32209	Plate - Radiator (Kubota Part Number 16616-7215-0)	1
20	32208	Bracket - Radiator Support, Outboard (Kubota Part Number 16616-7213-0)	1
21	Ref.	Hose - Gasoline, 0.25 inch ID x 9 inches (SAE 30R7)	—
22	21465	Clamp - Hose, 0.5 inch	2
23	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	2
24	6356	Washer - Lock, 1/4 inch	2
25	6638	Washer - Flat, 1/4 inch	2

This parts list continues on page 3-35.

FIGURE 3-K

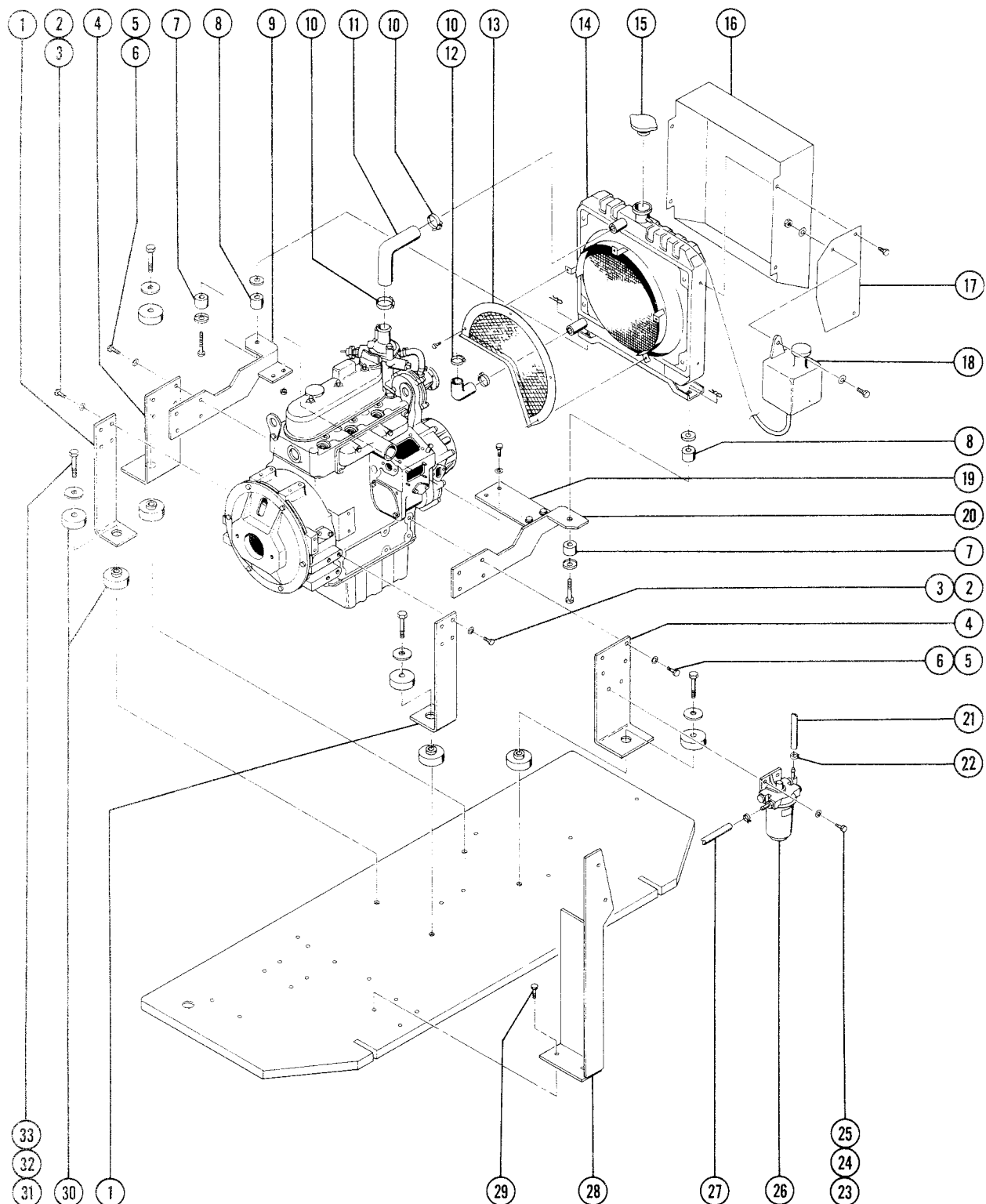


FIGURE 3-K

Index	Part No.	Description	Quantity This Figure
26	22290	Separator - Fuel/Water	1
—	22942	Element - Fuel/Water	—
27	Ref.	Hose - Gasoline, 0.25 inch ID x 48 inches (SAE 30R7)	—
28	31349P	Bracket - Air Filter Mount	1
29	18506	Screw - Locking Flange, $\frac{5}{16}$ -18 x 0.75 inch	2
30	24037	Shock Mount - Large	8
31	8357	Screw - HHC, $\frac{1}{2}$ -13 x 3.5 inch, GR 5	4
32	24040	Washer - Fender, $\frac{1}{2}$ inch	4
33	6198	Nut - Nylock, $\frac{1}{2}$ -13	4

Notes

Section Four

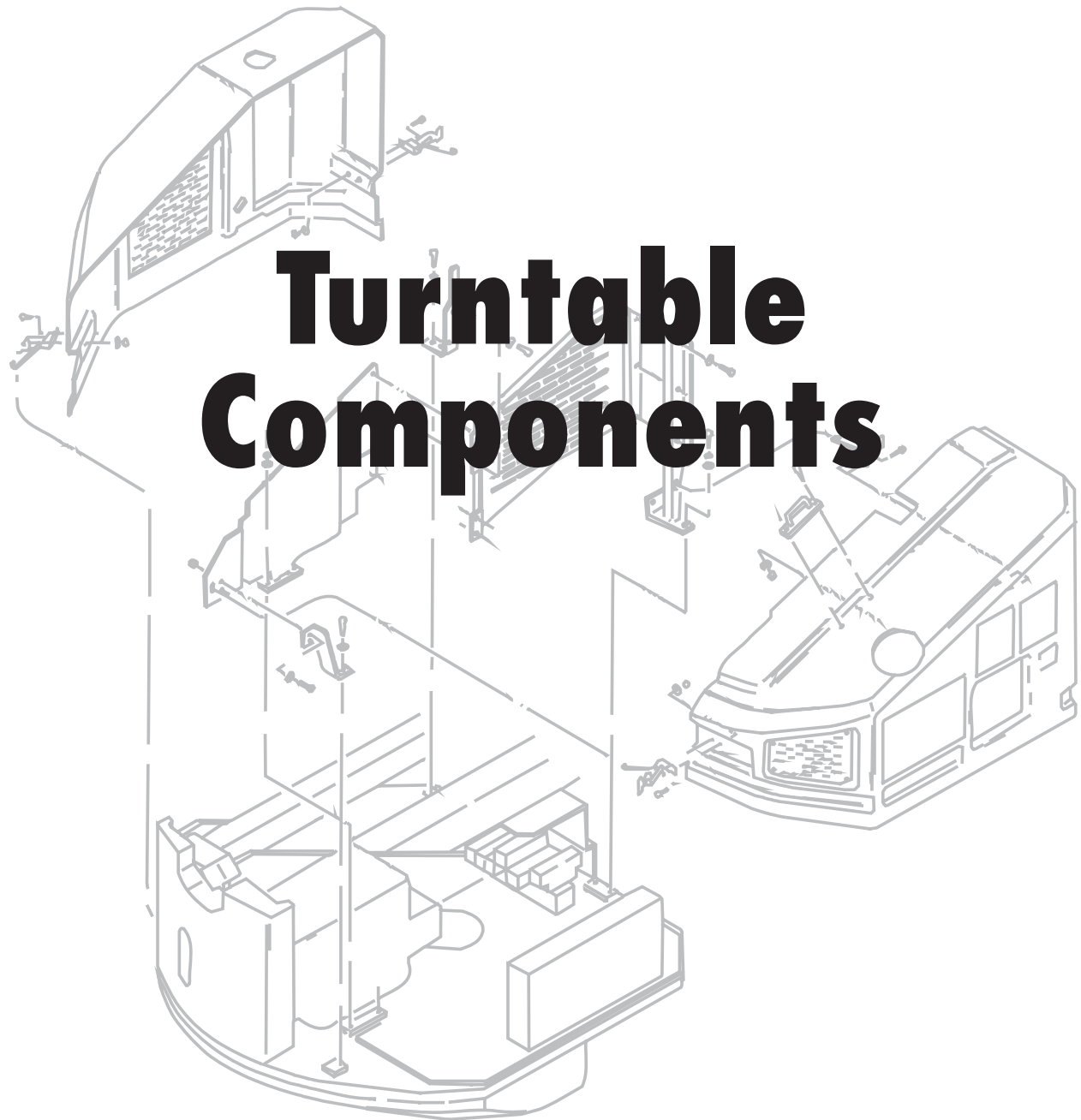


Figure 4-A

Turntable Rotator

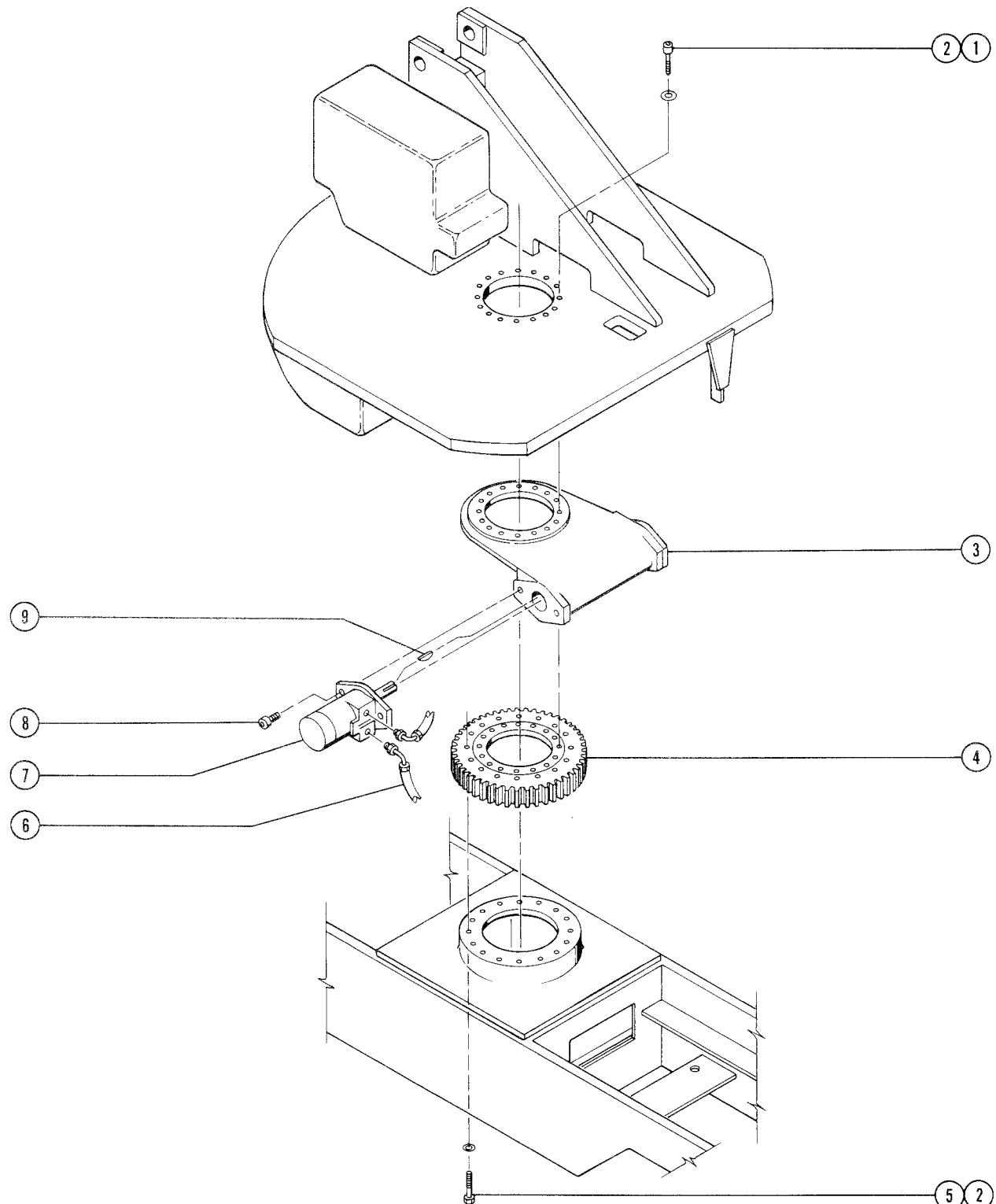


FIGURE 4-A

Index	Part No.	Description	Quantity This Figure
1	25068	Screw - SHC, $\frac{5}{8}$ - 11 x 4.5 inch, GR 8	24
2	13064	Washer - Flat Hardened, $\frac{5}{8}$ inch	42
3	24486	Worm Drive - Turntable Rotation	1
4	24485	Bearing - Turntable Rotation	1
—	22794	Fitting - Grease	—
5	25067	Screw - SHC, $\frac{5}{8}$ - 11 x 6.5 inch, GR 8	18
6	Ref.	Hydraulic Hoses & Fittings (refer to figure 4-L, page 4-30)	—
7	27372	Motor - Turntable Rotation (includes index number 9)	1
—	27275	Seal Kit - Turntable Rotation Motor	—
8	22202	Screw - SHC, $\frac{1}{2}$ - 13 x 2.25 inch, GR 8	2
9	32224	Key - Woodruff	1

Figure 4-B

Hydraulic Tank - DC Power Models

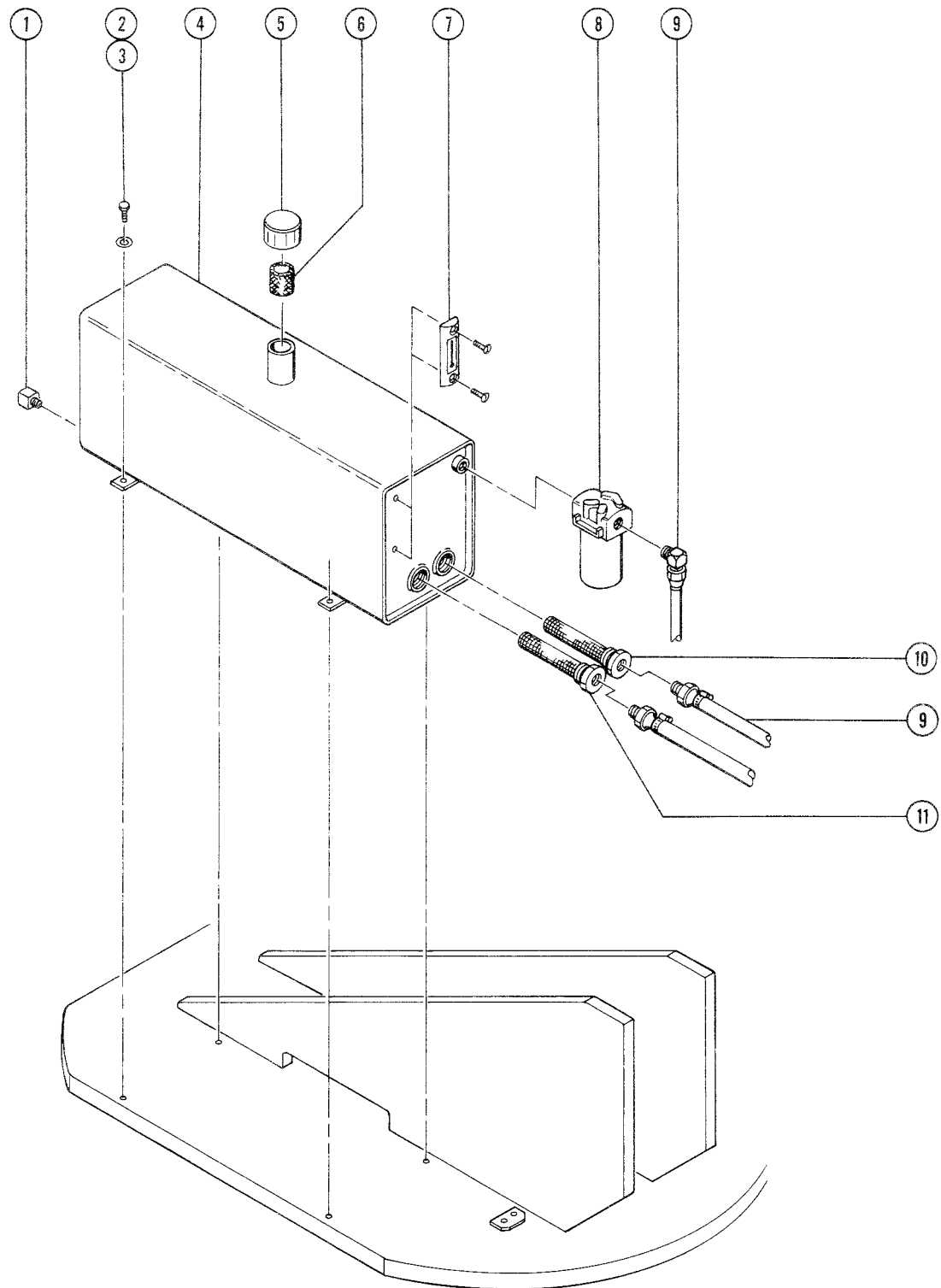


FIGURE 4-B

Index	Part No.	Description	Quantity This Figure
1	31507	Plug - Square Head, 12 MPT	1
2	8255	Screw - HHC, $\frac{3}{8}$ -16 x 0.75 inch, GR 5	2
3	6021	Washer - Lock, 0.375 inch	2
4	29623P	Weldment - Hydraulic Tank, 17.7 Gallons (67 liters)	1
5	45157	Breather Cap	1
6	31506	Strainer - Filler Neck	1
7	21141	Fluid Level Indicator	1
8	29908	Hydraulic Filter Assembly with Indicator	1
—	20293	Element - Fiberglass, 10 Micron	—
9	Ref.	Hydraulic Hoses & Fittings (refer to figure 4-L, page 4-30)	—
10	45161	Strainer Assembly	1
11	45162	Strainer Assembly	1

Figure 4-C

Hydraulic and Fuel Tanks - Engine Models

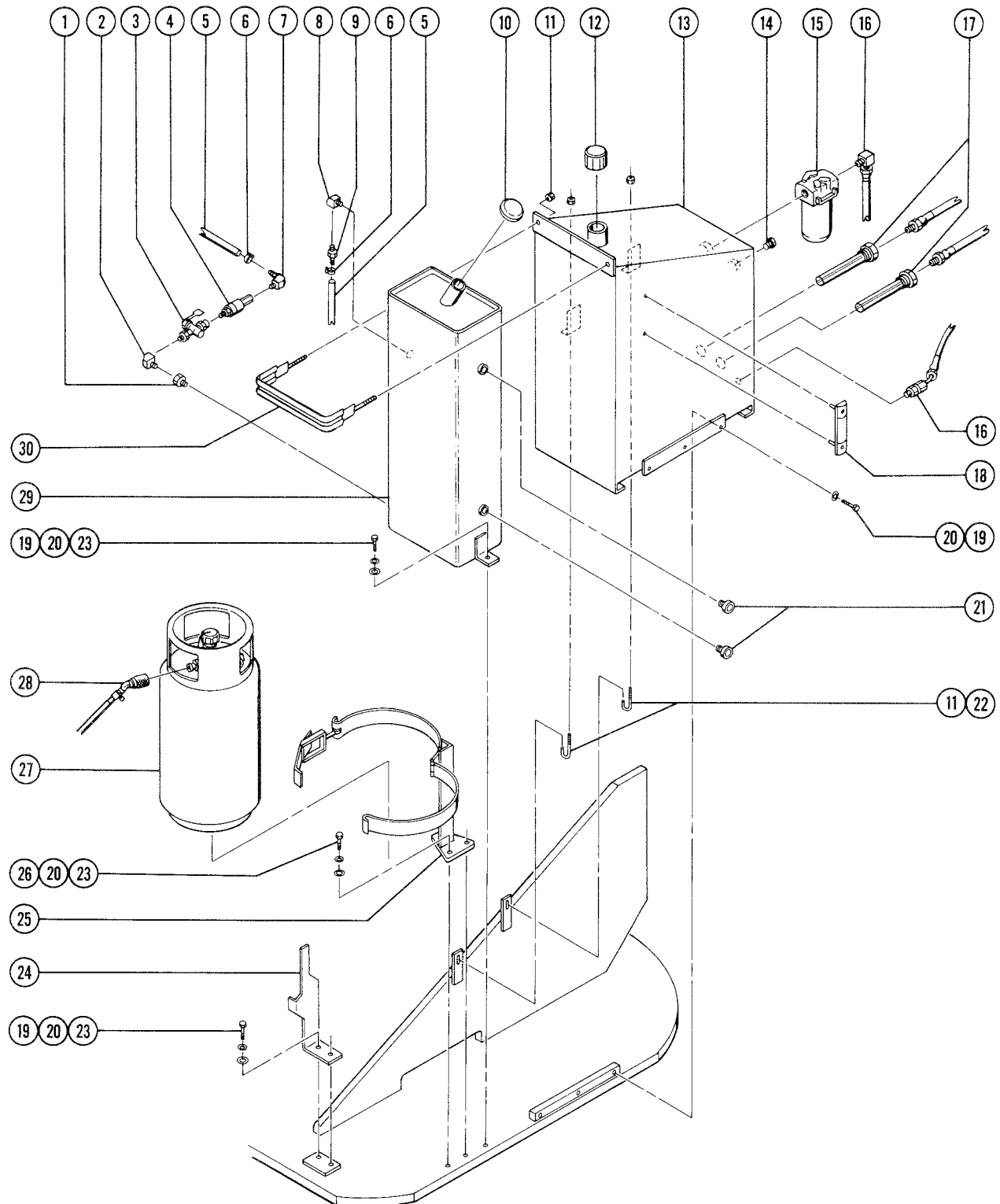


FIGURE 4-C

Index	Part No.	Description	Quantity This Figure
1	6648	Fitting - Reducer Bushing, 6 MPT x 4 FPT (SAE 140140)	1
2	19363	Fitting - Street Elbow, 4 MPT x 4 FPT (SAE 130239)	1
3	19487	Valve - Manual Fuel Shutoff	1
4	45827	Solenoid - Fuel Shutoff, 12V (Kubota Gas models)	1
5	30490	Hose - Fuel Line, 1/4 inch (SAE 30R7) (Kubota Gas models)	1 each @ 37 inches (94 cm)
—	30490	Hose - Fuel Line, 1/4 inch (SAE 30R7) (Kubota Diesel models)	2 each @ 61 inches (155 cm)
6	21465	Clamp - Hose, 0.5 inch (Kubota Gas models)	1
—	21465	Clamp - Hose, 0.5 inch (Kubota Diesel models)	2
7	31818	Fitting - 90° Elbow, 1/8 MPT x 1/4 inch Barb (Kubota Gas models)	1
—	29137	Fitting - Connector, 4 MPT x 1/4 Barb (Kubota Diesel models)	1
8	19363	Fitting - Street Elbow, 4 MPT x 4 FPT (SAE 130239) (Kubota Diesel models)	1
—	18218	Fitting - Plug, Hex Head, 1/4 MPT (Kubota Gas models)	1
9	29137	Fitting - Connector, 4 MPT x 1/4 Barb (Kubota Diesel models)	2
10	28829	Cap - Vented, Anti-surge, Red (Kubota Gas models)	1
—	25567	Cap - Vented, Anti-surge, Green (Kubota Diesel models)	1
11	4828	Nut - Nylock, 3/8 -16	4
12	45157	Breather Cap	1
13	29948P	Weldment - Hydraulic Tank, 22.5 Gallons (85 liters)	1
14	30346	Fitting - Plug, Hex Head, 12 MPT	1
15	29908	Hydraulic Filter Assembly with Indicator	1
—	20293	Element - Fiberglass, 10 Micron	—
16	Ref.	Hydraulic Hoses & Fittings (refer to figures 4-M or 4-N, pages 4-34 or 4-40)	—
17	45161	Strainer Assembly	2
18	21141	Fluid Level Indicator	1
19	8255	Screw - HHC, 3/8 -16 x 0.75 inch, GR 5	6
20	6021	Washer - Lock, 0.375 inch	9

This parts list continues on page 4-9.

FIGURE 4-C

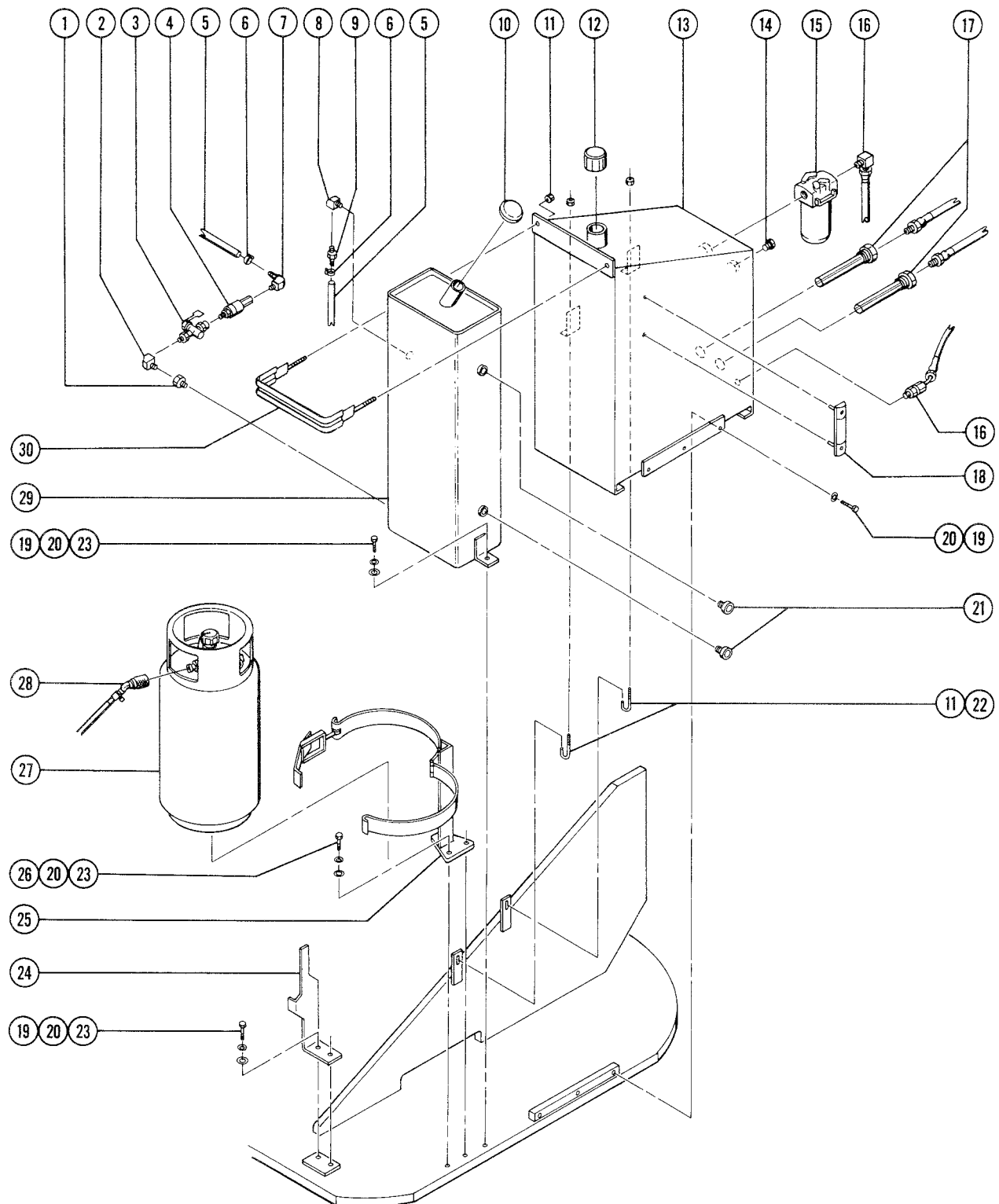


FIGURE 4-C

Index	Part No.	Description	Quantity This Figure
21	30128	View Gauge, 12 MPT	2
22	24712	Hook - Tank Anchor	2
23	6097	Washer - Flat, 0.375 inch	6
24	31365P	Bracket - Cover Latch	1
25	31029	Weldment - LPG Tank Mount	1
26	6175	Screw - HHC, $\frac{3}{8}$ -16 x 1 inch, GR 5	3
27	45576	LPG Tank Assembly, 33.5 pounds (15.2 kg)	1
28	31396	Hose Assembly, Liquid Propane	1
29	29938P	Weldment - Fuel Tank, 8 Gallons (30.2 liters) (Kubota Gas models)	1
—	29949P	Weldment - Fuel Tank, 18.2 Gallons (68.9 liters) (Kubota Diesel models)	1
30	32037	Strap - Tank with Rubber (Kubota Gas models)	1
—	32038	Strap - Tank with Rubber (Kubota Diesel models)	1

Figure 4-D

Turntable Manifold Installations

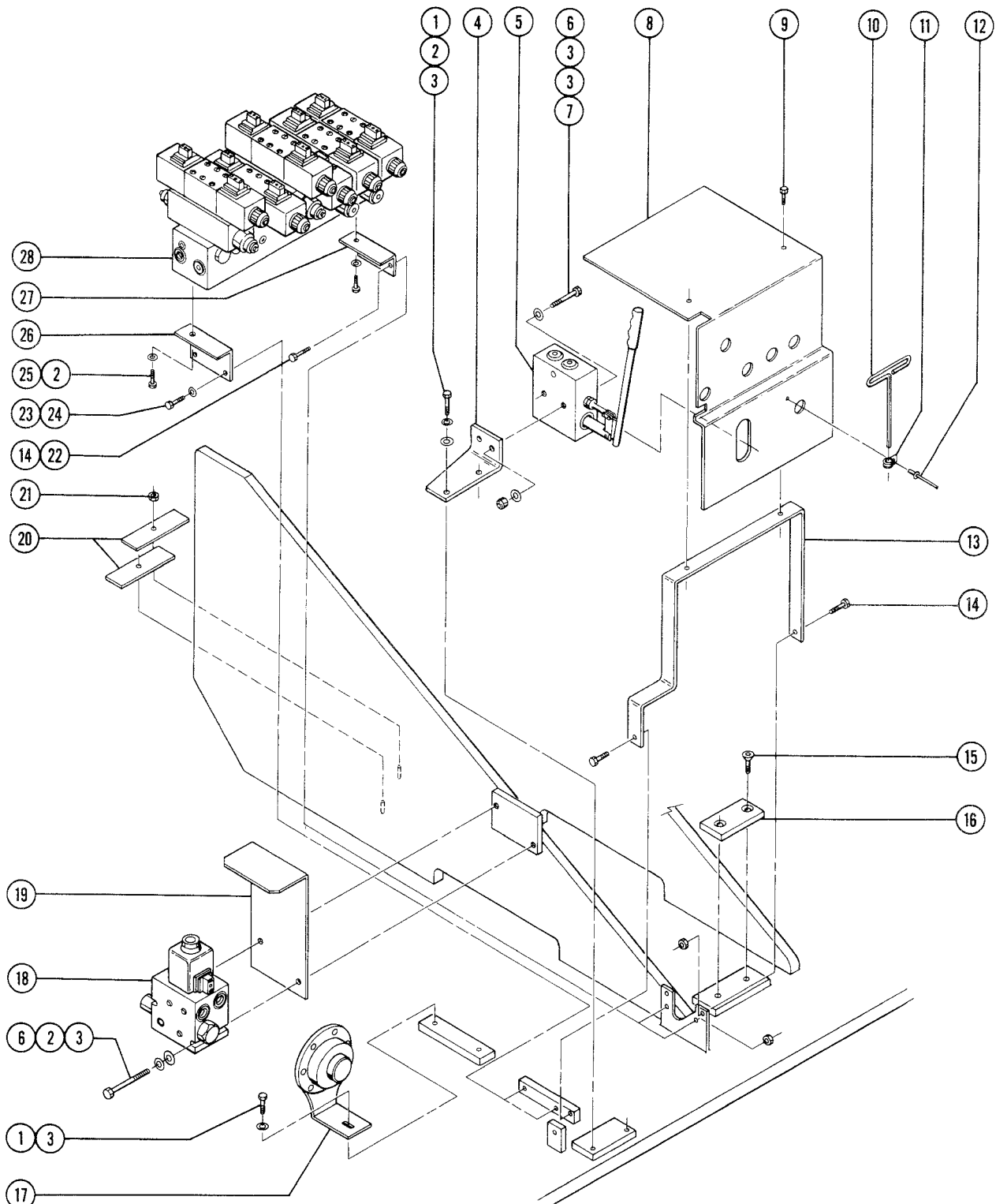


FIGURE 4-D

Index	Part No.	Description	Quantity This Figure
1	8255	Screw - HHC, $\frac{3}{8}$ -16 x 0.75 inch, GR 5	4
2	6021	Washer - Lock, 0.375 inch	5
3	6097	Washer - Flat, 0.375 inch	10
4	31372P	Bracket - Hand Pump Mount, DC Models (shown)	1
—	31374	Bracket - Hand Pump / Bulkhead Mount, Engine Models	1
5	31377	Hand Pump Manifold, Complete	1
—	19187	Seal Kit - Hand Pump	—
6	21604	Screw - HHC, $\frac{3}{8}$ -16 x 3.25 inch, GR 5	4
7	4828	Nut - Nylock, $\frac{3}{8}$ -16	2
8	29847P	Cover - Function Manifold	1
9	18506	Screw - Locking Flange, $\frac{5}{16}$ -18 x 0.75 inch	2
10	31113	Wrench - Allen, $\frac{3}{16}$ x 6	1
11	45470	Clamp - Rubber Cushioned, 0.31 inch	1
12	7265	Rivet - Steel, 0.375 x 0.25 inch	1
13	29846P	Bracket - Function Manifold Cover	1
14	10107	Screw - HHC, $\frac{5}{16}$ -18 x 0.75 inch	4
15	16439	Screw - FHS, $\frac{3}{8}$ -16 x 1 inch	2
16	25015	Pad - Secondary Boom Rest	1
17	19145	Horn, 12V DC	1
18	29635	Proportional Control Manifold, 12V (refer to figure 4-E, page 4-14)	1
19	29636P	Cover - Proportional Control Manifold	1
20	45443P	Clamp - Hose and Cable, 6 inches	2
21	6091	Nut - Nylock, $\frac{1}{4}$ -20	2
22	6782	Nut - Nylock, $\frac{5}{16}$ -18	2
23	13002	Screw - HHC, $\frac{5}{16}$ -18 x 1 inch, GR 5	2
24	6886	Washer - Lock, $\frac{5}{16}$ inch	2
25	6175	Screw - HHC, $\frac{3}{8}$ -16 x 1 inch, GR 5	2

This parts list continues on page 4-13.

FIGURE 4-D

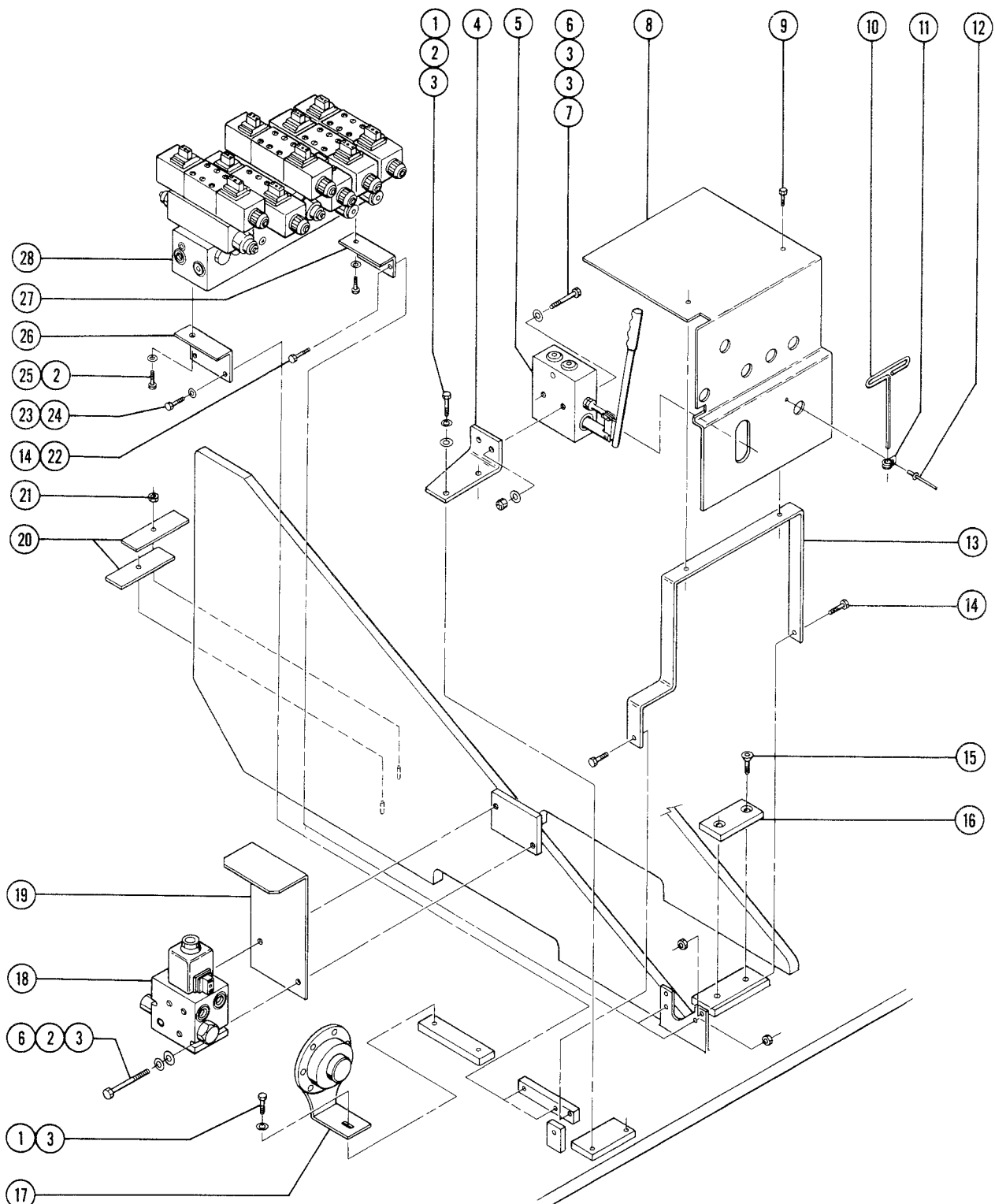


FIGURE 4-D

Index	Part No.	Description	Quantity This Figure
26	29808P	Bracket - Function Manifold Mounting, Outboard	1
27	29807P	Bracket - Function Manifold Mounting, Inboard	1
28	Ref.	Function Manifold, Complete (after serial number Z-45-0000868) (refer to figure 4-G, page 4-18)	—
—	Ref.	Function Manifold, Complete (before serial number Z-45-0000869) (refer to figure 4-F, page 4-16)	—

Figure 4-E

Proportional Control Manifold

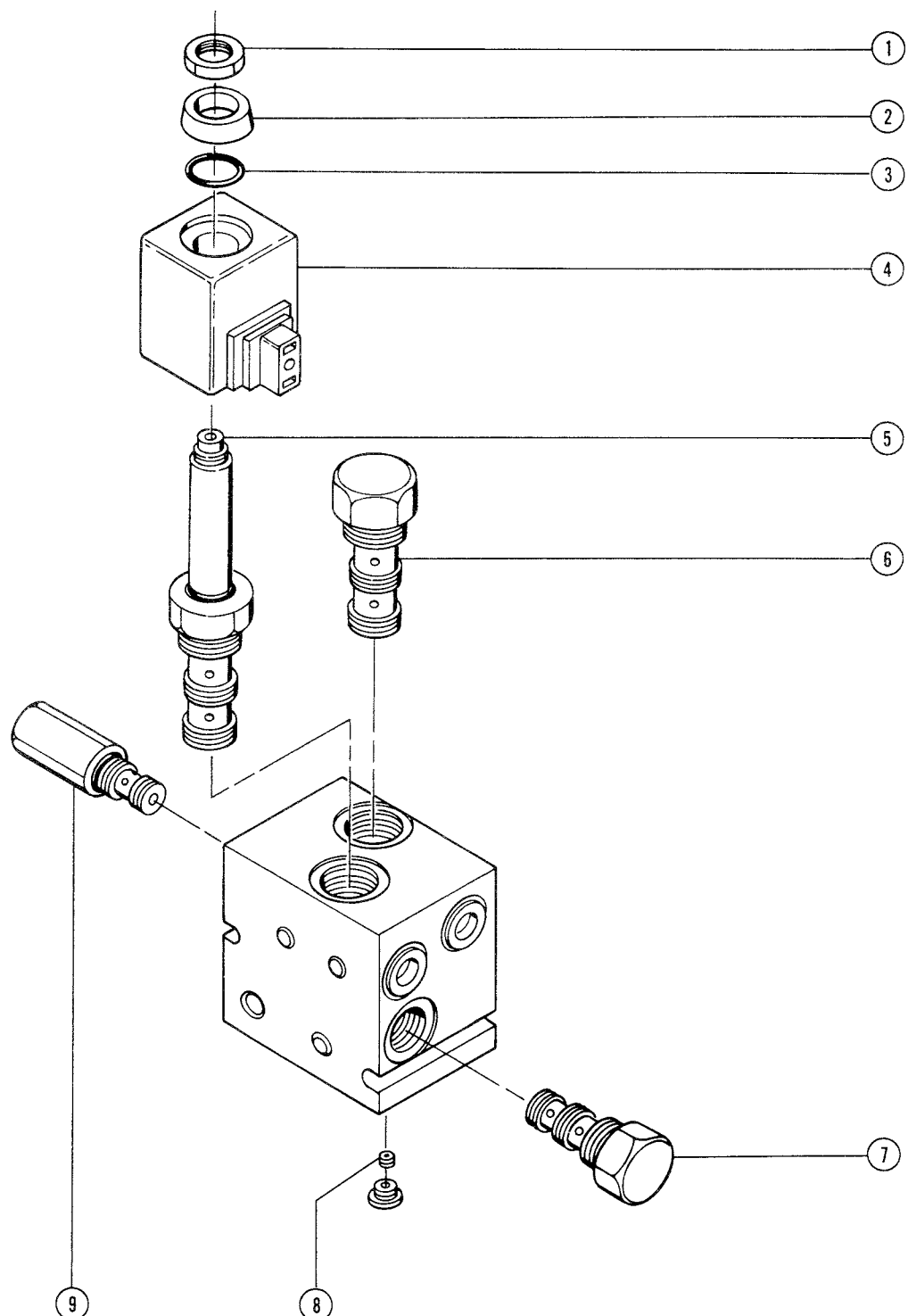


FIGURE 4-E

Index	Part No.	Description	Quantity This Figure
—	29635	Proportional Control Manifold, 12V, Complete	—
—	25375	O-Ring Kit (services all Compact Controls hydraulic cartridges)	—
1	45922	Nut - Proportional Solenoid	1
2	45921	Spacer - Proportional Solenoid	1
3	45920	O-Ring, Proportional Solenoid	1
4	21935	Coil - Proportional Solenoid, 12V	1
5	31098	Valve - Proportional Solenoid, 12V (includes index numbers 1 through 4)	1
6	32034	Valve - Flow Control, 1500 psi (103 bar)	1
7	32036	Valve - Differential Sensing	1
8	27809	Plug - Orifice, 0.015 inch	1
9	32035	Valve - Relief, 2200 psi (152 bar)	1

Figure 4-F

Function Manifold (before serial number Z-45-0000869)

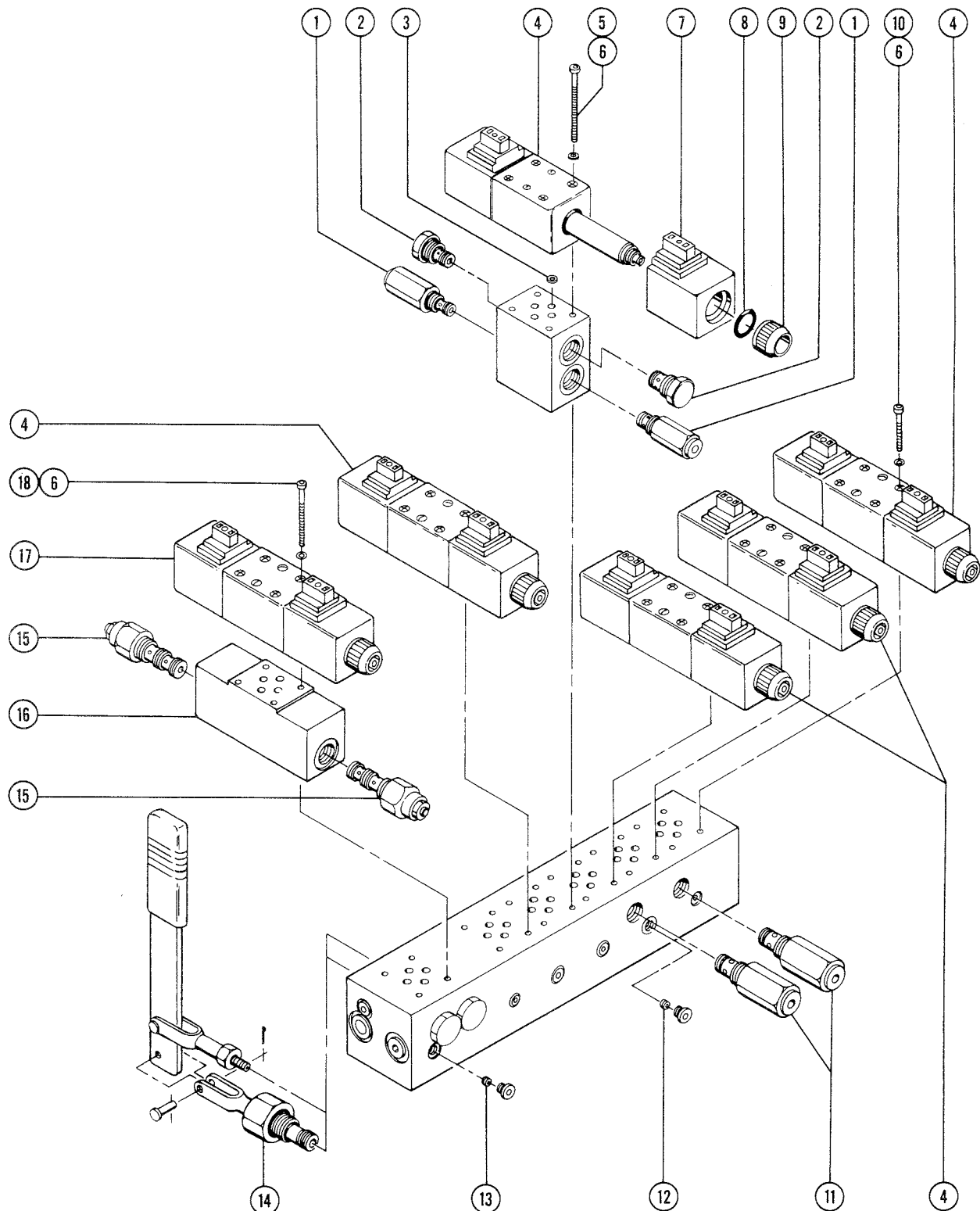


FIGURE 4-F

Index	Part No.	Description	Quantity This Figure
—	29634	Function Manifold, Complete	—
—	25375	O-Ring Kit (services all Compact Controls hydraulic cartridges)	—
1	29028	Valve - Relief, 1800 psi (124 bar)	2
2	45543	Valve - Check	2
3	32040	Washer - Orifice, 0.030 inch	1
4	31752	Valve - D01, 12V (includes 2 each index numbers 7 through 9)	5
5	Ref.	Screw - SHC, 10-24 x 4 inch	4
6	6607	Washer - Lock, No. 10	24
7	27535	Coil - D01 Valve, 12V	12
8	45914	O-Ring, D01 Valve	12
9	45913	Nut - D01 Valve	12
10	45916	Screw - SHC, 10-24 x 1.125 inch	16
11	31749	Valve - Relief, 1200 psi (83 bar)	2
12	31750	Plug - Orifice, 0.060 inch	1
13	29737	Plug - Orifice, 0.052 inch	1
14	19920	Valve - Hand Pump	1
—	29029	Seal Kit - Hand Pump	—
15	27047	Valve - Counterbalance, 1500 psi (103 bar)	2
16	27806	Counterbalance Sandwich (includes index number 15)	1
17	27811	Valve - D01, 10V (includes 2 each index numbers 7 through 9)	1
18	27812	Screw - SHC, 10-24 x 3 inch	4

Figure 4-G

Function Manifold (after serial number Z-45-0000868)

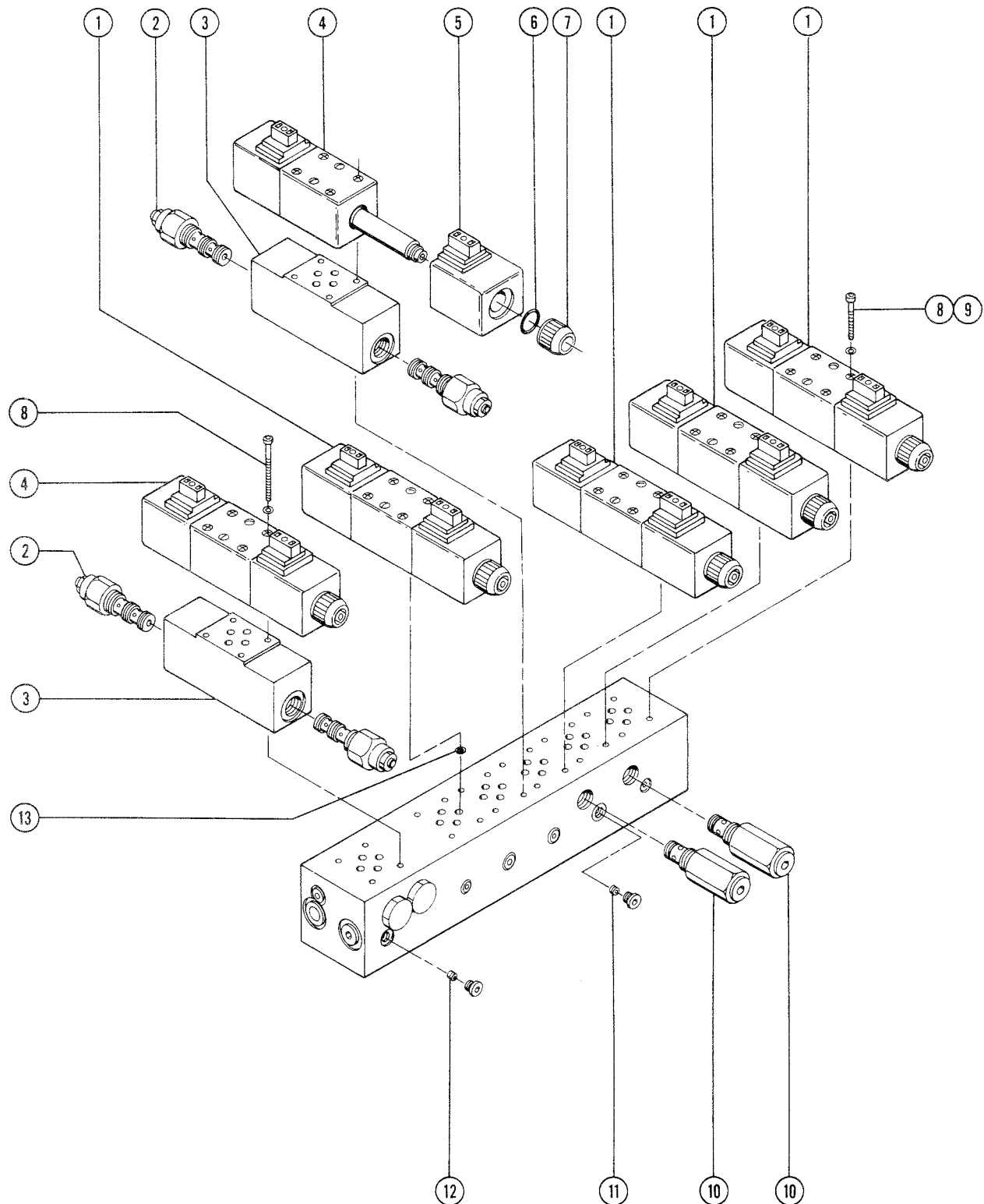


FIGURE 4-G

Index	Part No.	Description	Quantity This Figure
—	31378	Function Manifold, Complete	—
—	25375	O-Ring Kit (services all Compact Controls hydraulic cartridges)	—
1	31752	Valve - D01, 12V (includes 2 each index numbers 5 through 7)	4
2	27047	Valve - Counterbalance, 1500 psi (103 bar)	4
3	27806	Counterbalance Sandwich (includes 2 each index number 2)	2
4	27811	Valve - D01, 12V (includes 2 each index numbers 5 through 7)	2
5	27535	Coil - D01 Valve, 12V	12
6	45914	O-Ring, D01 Valve	12
7	45913	Nut - D01 Valve	12
8	6607	Washer - Lock, No. 10	24
9	45916	Screw - SHC, 10-24 x 1.125 inch	16
10	31749	Valve - Relief, 1200 psi (83 bar)	2
11	31750	Plug - Orifice, 0.060 inch (1.52 mm)	1
12	29737	Plug - Orifice, 0.052 inch (1.3 mm)	1
13	31751	Washer - Orifice, 0.020 inch (0.5 mm)	1
14	27812	Screw - SHC, 10-24 x 3 inch	8

Figure 4-H

Ground Controls - View 1

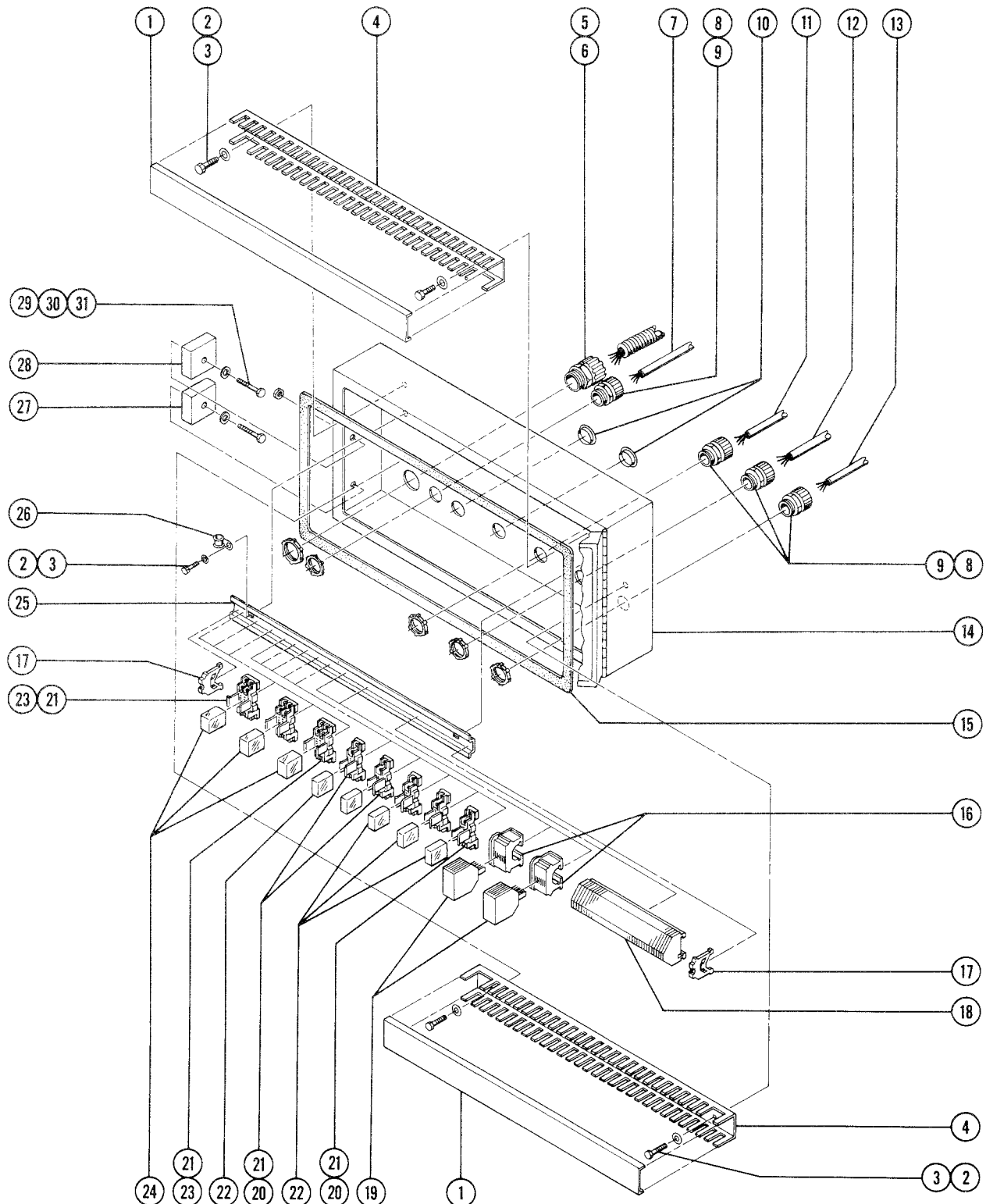


FIGURE 4-H

Index	Part No.	Description	Quantity This Figure
1	27039	Cover - Wiring Duct	48 inches (122 cm)
2	7339	Screw - HHC, 1/4 -20 x 0.5 inch, GR 5	6
3	6356	Washer - Lock, 1/4 inch	6
4	27038	Wiring Duct	48 inches (122 cm)
5	20776	Squeeze Connector	1
6	18665	Locknut - Electric, 1 inch	1
7	Ref.	Engine Wire Harness	—
8	12960	Squeeze Connector	4*
9	14041	Locknut - Electric, 0.75 inch	4*
10	45385	Plug - Black Plastic, 1.12 inch (2.8 cm) Diameter	3*
11	1635	Electrical Cord, 18 Gauge (0.821 mm ²), 19 Conductor	798 inches (2027 cm)
12	1635	Electrical Cord, 18 Gauge (0.821 mm ²), 19 Conductor	798 inches (2027 cm)
13	1635	Electrical Cord, 18 Gauge (0.821 mm ²), 19 Conductor	798 inches (2027 cm)
14	32039	Control Box with Lid and Decal (includes 1 each index number 15)	1
15	28689	Gasket - Ground Control Box	1
16	25808	Carrier - Terminal Block	2
17	25974	End Stop - Plastic	2
18	25836	Terminal Block	50
19	25807	Diode Block - Suppression	2
20	20813	Socket - SPDT Relay	6*
21	24343	Relay Hold Down	18*
22	25563	Relay - SPDT, 12V DC	6*
23	24119	Socket - DPDT Relay	3*
24	24118	Relay - DPDT, 12V DC	3*
25	25839	Mounting Rail	1

* Quantity listed may not reflect specific model configuration requirements.

This parts list continues on page 4-23.

FIGURE 4-H

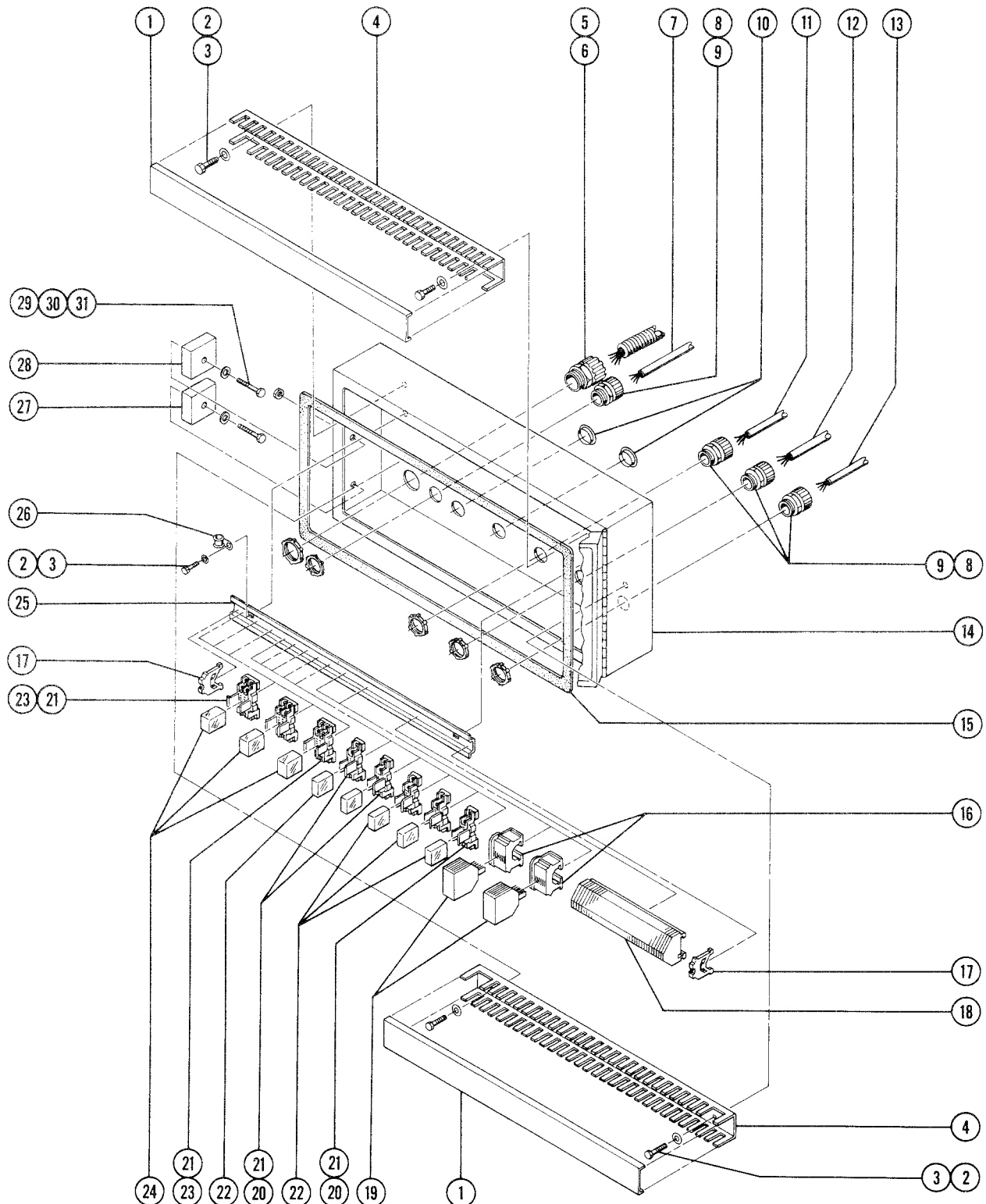


FIGURE 4-H

Index	Part No.	Description	Quantity This Figure
26	6833	Clamp - Rubber Cushioned, 0.5 inch	1
27	31123	Relay - 1 Second Time Delay (Kubota Diesel models)	1
28	29374	Relay - 3 Second Time Delay, 2A, 12V DC	1
29	8915	Screw - HHC, 1/4 -20 x 1.25 inch, GR 5	2*
30	6638	Washer - Flat, 1/4 inch	2*
31	6889	Nut - Low Profile Nylock, 1/4 -20	2*

* Quantity listed may not reflect specific model configuration requirements.

Figure 4-I

Ground Controls - View 2

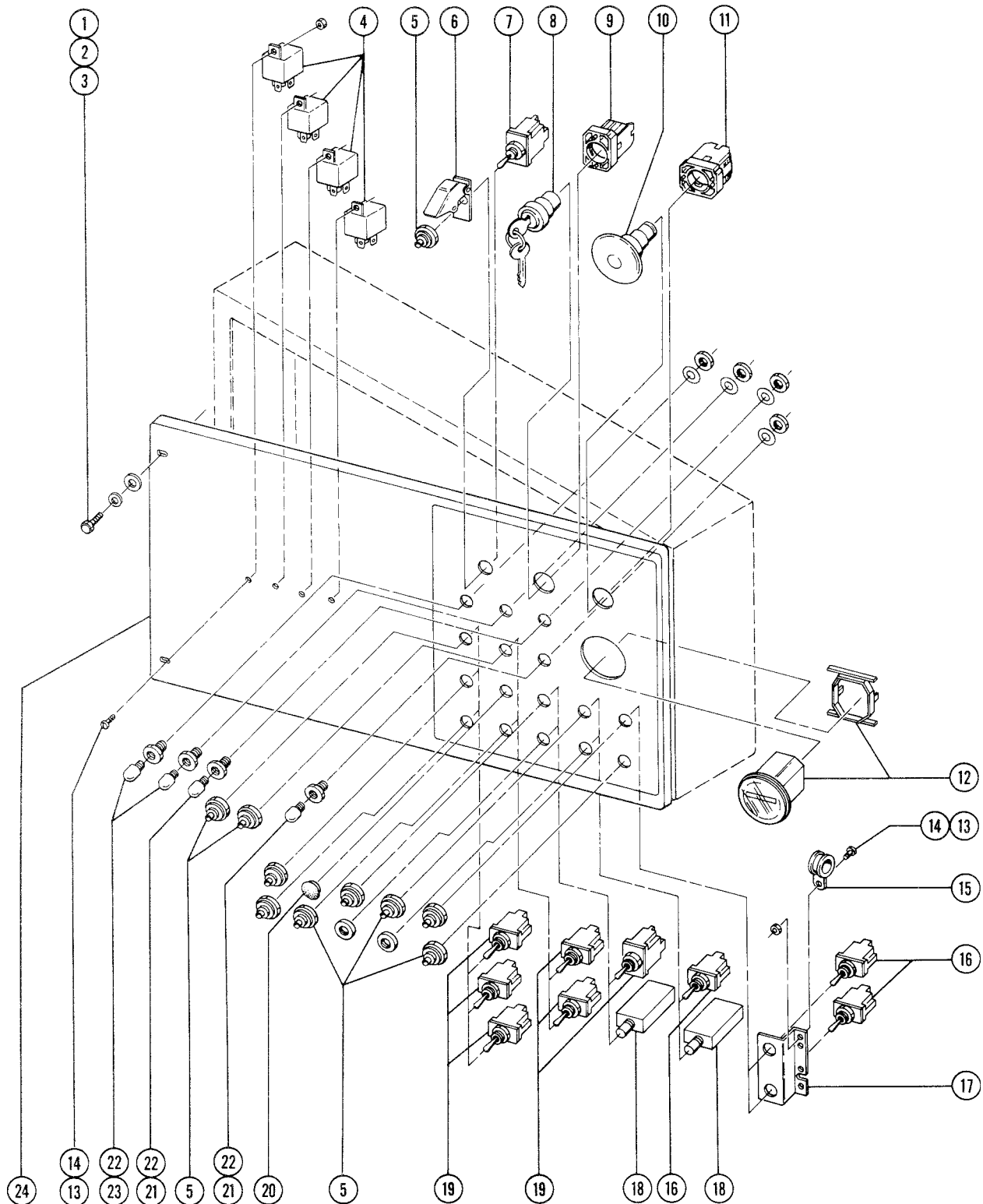


FIGURE 4-I

Index	Part No.	Description	Quantity This Figure
1	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	2
2	6356	Washer - Lock, 1/4 inch	2
3	6638	Washer - Flat, 1/4 inch	2
4	19274	Relay - SPDT, 12V DC	4*
5	27246	Boot - Rubber	10*
6	13471	Cover - Toggle Switch, Red	1*
7	13480	Toggle Switch - DPDT, 2 Position, Momentary (includes mounting fasteners)	1*
8	45079	Keyswitch - 3 Position (includes 1 pair of keys)	1
—	21314	Keyswitch with Removeable Key (includes 1 pair of keys)	—
—	21982	Key - Keyswitch	—
9	45084	Base - Push Button (includes 2 each N.O. Contacts)	1
—	45081	Contact - N.O.	—
10	45078	Push Button - Red Mushroom Head	1
11	45085	Base - Push Button (includes 2 each N.C. Contacts)	1
—	29732	Contact - N.C.	—
12	19506	Hour Meter (includes mounting bracket)	1*
13	5094	Screw - RHM, 10-32 x 0.5 inch	5*
14	6178	Nut - Nylock, 10-32	5*
15	6833	Clamp - Rubber Cushioned, 0.5 inch	1
16	13037	Toggle Switch - SPDT, 3 Position, Momentary (includes mounting fasteners)	3*
17	21191	Bracket - Panel Wire Mount	1
18	24018	Circuit Breaker - 15A (includes mounting fasteners)	2*
19	16397	Toggle Switch - DPDT, 3 Position, Momentary (includes mounting fasteners)	6*
20	45384	Plug - Black Plastic, 0.50 inch (1.27 cm) Diameter	1*
21	22776	Socket & Lens Assembly - Red Indicator Light	2*
22	22777	Lamp - 14V	4*
23	31922	Socket & Lens Assembly - Green Indicator Light	2*
24	32039	Control Box with Lid (includes gasket and decal)	1

* Quantity listed may not reflect specific model configuration requirements.

Figure 4-J

Turntable Covers - DC Models

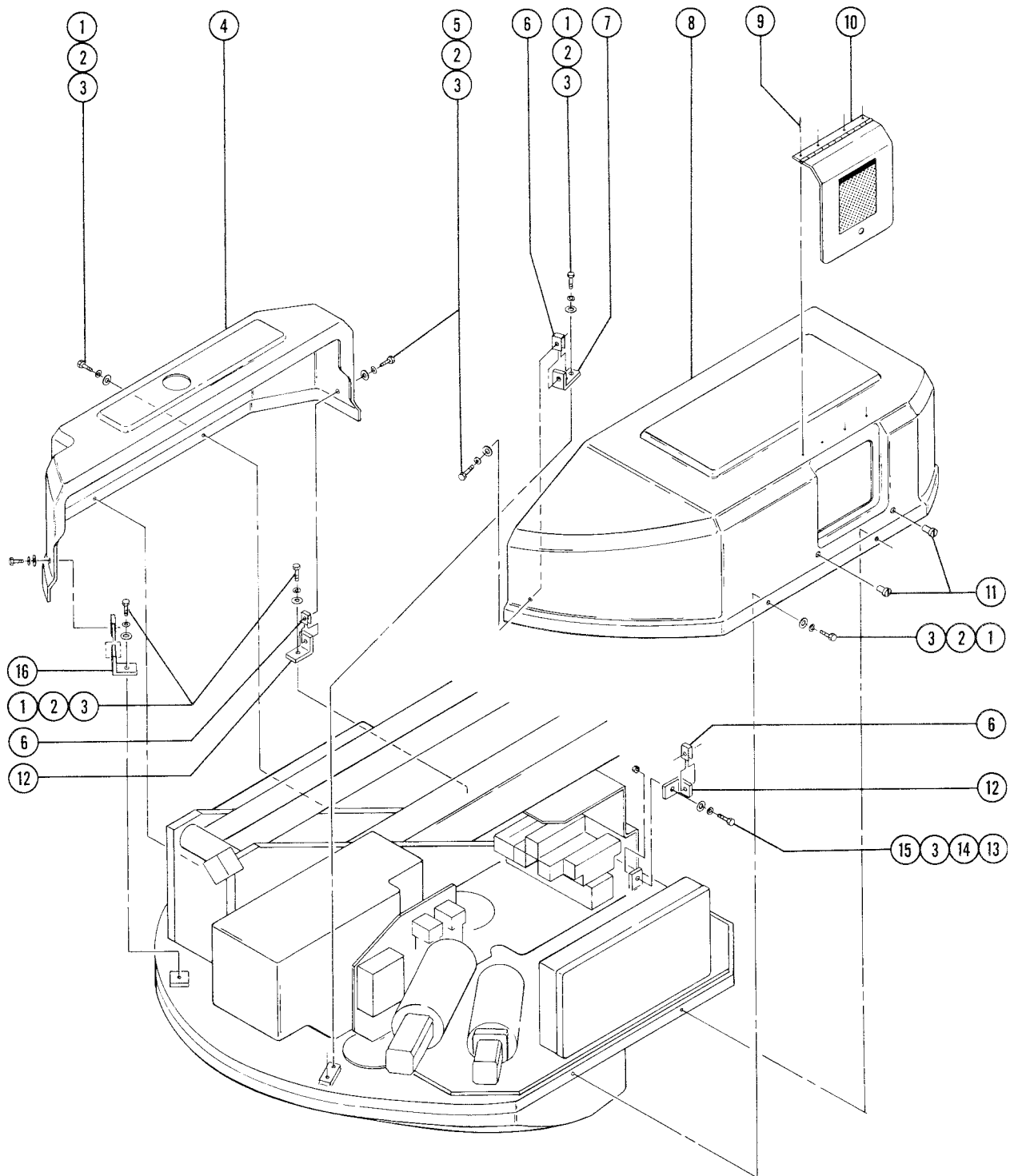


FIGURE 4-J

Index	Part No.	Description	Quantity This Figure
1	8255	Screw - HHC, $\frac{3}{8}$ -16 x 0.75 inch, GR 5	7
2	6021	Washer - Lock, 0.375 inch	12
3	6097	Washer - Flat, 0.375 inch	13
4	32042	Turntable Cover Assembly with Decals - Tank Side	1
5	6175	Screw - HHC, $\frac{3}{8}$ -16 x 1 inch, GR 5	4
6	29868	Nut - Spring Clip, $\frac{3}{8}$ -16	4
7	29899P	Bracket - Cover Mount	1
8	32041	Turntable Cover Assembly with Decals - Engine Side (includes index numbers 9 through 11)	1
9	8920	Rivet - Aluminum, 0.156 x 0.375 inch	4
10	32045	Cover Assembly - Hinged with Decal, Ground Controls Access	1
11	31046	Magnetic Catch	2
12	29898P	Bracket - Cover Mounting	2
13	13918	Screw - HHC, $\frac{3}{8}$ -16 x 1.75, GR 8	1
14	6022	Nut - Hex, $\frac{3}{8}$ -16	1
15	4828	Nut - Nylock, $\frac{3}{8}$ -16	1
16	29901P	Bracket - Cover Mounting	1

Figure 4-K

Turntable Covers - Engine Models

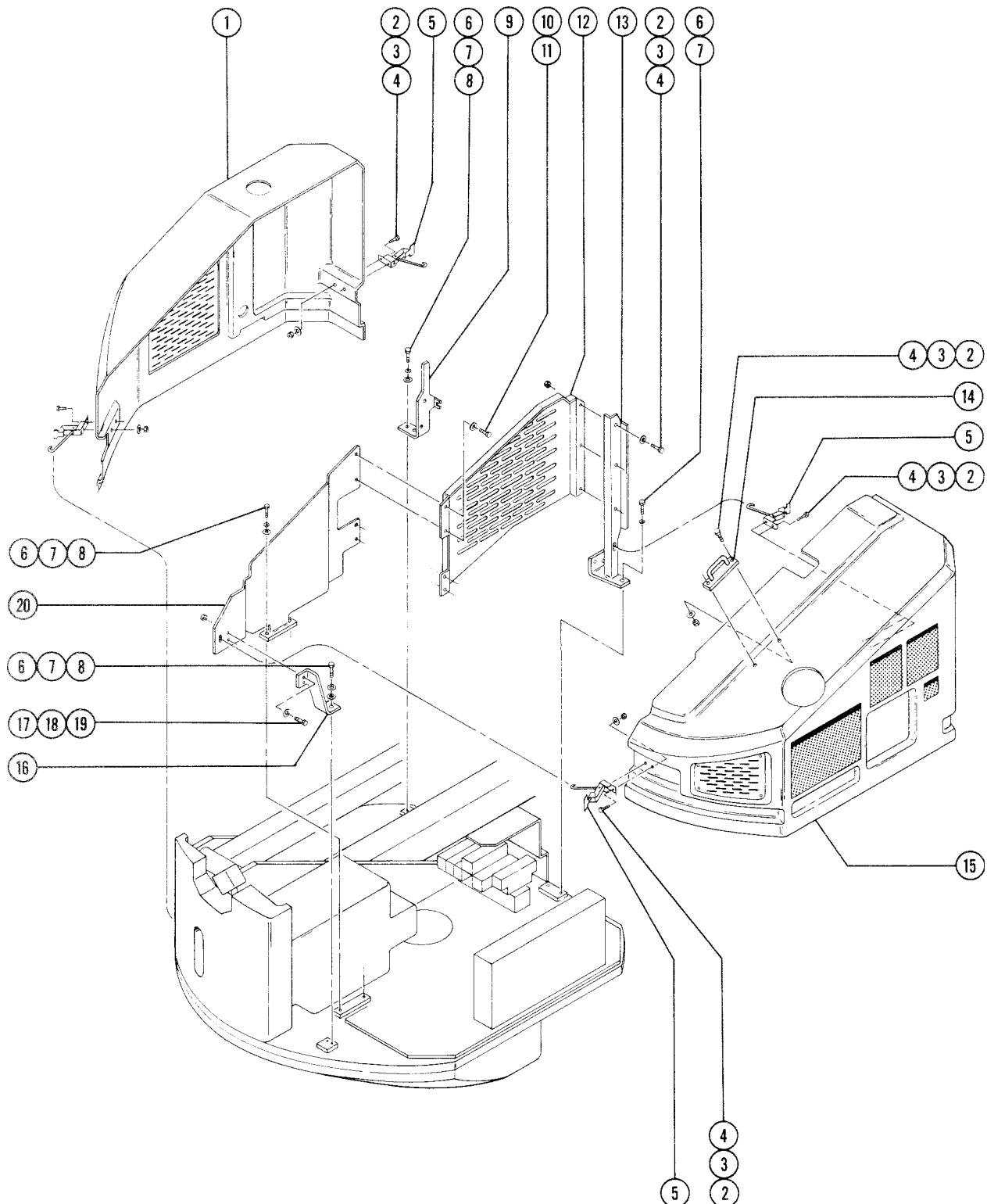


FIGURE 4-K

Index	Part No.	Description	Quantity This Figure
1	32050	Cover Assembly with Decals - Tank Side, Gas/LPG Models (includes index numbers 2 through 5)	1
—	32051	Cover Assembly with Decals - Tank Side, Tri-Fuel Models (includes index numbers 2 through 5)	1
—	32052	Cover Assembly with Decals - Tank Side, Bi-Fuel Models (includes index numbers 2 through 5)	1
—	32053	Cover Assembly with Decals - Tank Side, Diesel Models (includes index numbers 2 through 5)	1
2	6090	Screw - HHC, $\frac{1}{4}$ -20 x 0.75 inch, GR 5	13
3	6638	Washer - Flat, $\frac{1}{4}$ inch	13
4	6091	Nut - Nylock, $\frac{1}{4}$ -20	13
5	27126	Draw Latch - Adjustable	4
6	8255	Screw - HHC, $\frac{3}{8}$ -16 x 0.75 inch, GR 5	8
7	6021	Washer - Lock, 0.375 inch	8
8	6097	Washer - Flat, 0.375 inch	6
9	31365P	Bracket - Cover Latch	1
10	6888	Screw - HHC, $\frac{1}{4}$ -20 x 1 inch, GR 5	3
11	6356	Washer - Lock, $\frac{1}{4}$ inch	3
12	31363	Weldment - Air Exhaust Grill	1
13	31374	Weldment - Cover Support	1
14	18651P	Weldment - Handle	1
15	32046	Cover Assembly with Decals - Engine Side, Gas/LPG Models (includes index numbers 2 through 5 and 14)	1
—	32047	Cover Assembly with Decals - Engine Side, Tri-Fuel Models (includes index numbers 2 through 5 and 14)	1
—	32048	Cover Assembly with Decals - Engine Side, Bi-Fuel Models (includes index numbers 2 through 5 and 14)	1
—	32049	Cover Assembly with Decals - Engine Side, Diesel Models (includes index numbers 2 through 5 and 14)	1
16	31360	Gusset - Bulkhead Support	1
17	13002	Screw - HHC, $\frac{5}{16}$ -18 x 1 inch, GR 5	2
18	5397	Washer - Flat, $\frac{5}{16}$ inch	4
19	6002	Nut - Low Profile Nylock, $\frac{5}{16}$ x 18	2
20	31362	Weldment - Bulkhead	1

Figure 4-L

Hydraulic Hoses and Fittings DC Models

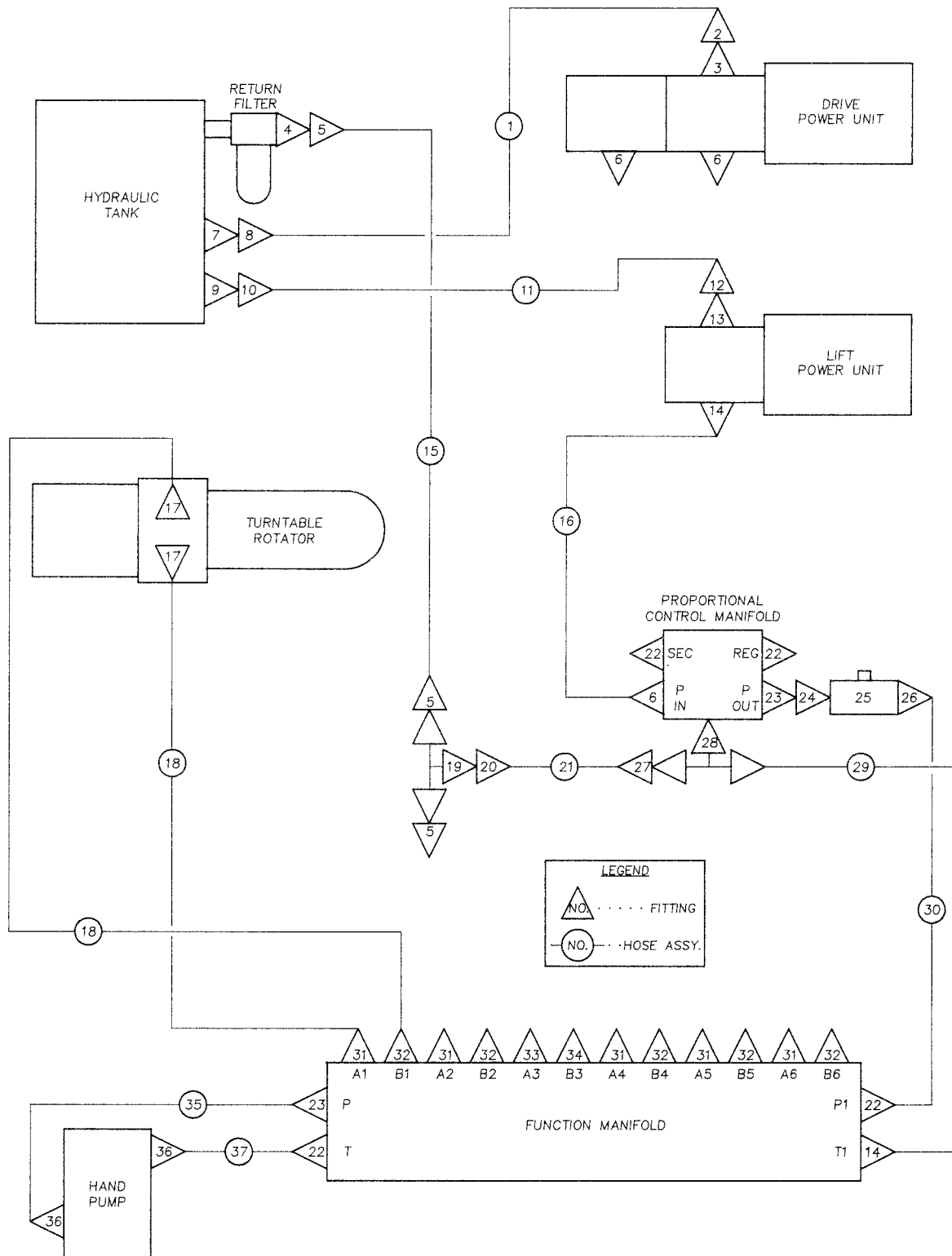


FIGURE 4-L

Index	Part No.	Description	Quantity This Figure
1	29930	Hose - Component: F @ 43 inches (109 cm)	1
2	21250	Fitting - Swivel Coupler, 16 JIC x 16 Barb	1
3	31796	Fitting - 45° Elbow, 12 SAE x 16 JIC (SAE 070320)	1
4	27202	Fitting - 90° Elbow, 16 MPT x 12 JIC (SAE 070202)	1
5	45170	Fitting - Swivel Hose End, 12 JIC x 0.75 inch Barb	3
6	45703	Fitting - Connector, 8 SAE x 8 JIC (SAE 070120)	3
7	45161	Strainer Assembly - Drive Functions	1
8	45166	Fitting - Hose End, 16 MPT x 1 inch Barb	1
9	45162	Strainer Assembly - Lift Functions	1
10	45167	Fitting - Hose End, 12 MPT x 0.75 inch	1
11	29931	Hose - Component E @ 56.5 inches (143 cm)	1
12	45359	Fitting - Swivel Connector, 12 JIC x 0.75 inch Barb	1
13	31114	Fitting - 45° Elbow, 10 SAE x 12 JIC (SAE 070320)	1
14	45357	Fitting - 90° Elbow, 8 SAE x 8 JIC (SAE 070220)	1
15	29933	Hose - Component: D @ 66 inches (168 cm)	1
16	29932	Hose Assembly - Components: G, I & A @ 4.5 inches (113 cm)	1
17	27421	Fitting - 45° Elbow, 10 SAE x 6 JIC (SAE 070320)	2
18	19136	Hose Assembly - Components: G, G & A @ 36 inches (91 cm)	2
19	28460	Fitting - Female Branch Tee, 12 JIC x 12 MPT (SAE 070427)	1
20	29909	Fitting - Male Hose End, 12 MPT x 1/2 inch Barb	1
21	29927	Hose - Component: B @ 18 inches (46 cm)	1
22	28448	Fitting - 90° Elbow, 8 SAE x 6 JIC (SAE 070220)	4
23	18687	Fitting - Connector, 8 SAE x 6 JIC (SAE 070120)	3
24	30392	Fitting - Adapter, 6 SAE x 6 JIC	1
25	30360	Valve - Check	1
26	45412	Fitting - Connector, 6 SAE x 6 JIC (SAE 070120)	7

This parts list with a hose assembly component list continues on page 4-33.

FIGURE 4-L

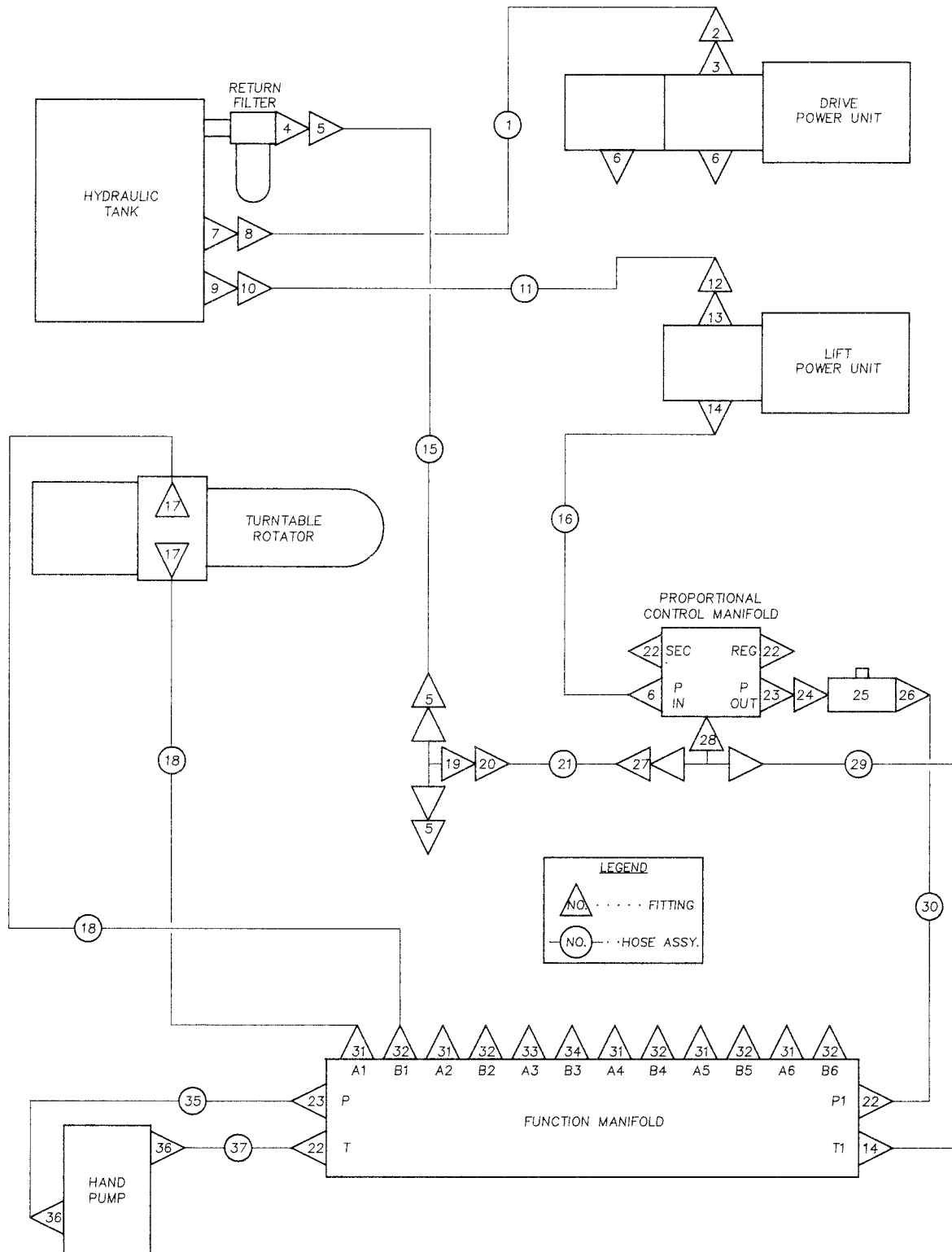


FIGURE 4-L

Index	Part No.	Description	Quantity This Figure
27	20324	Fitting - Hose End, 8 JIC Swivel x 1/2 inch Barb	1
28	22540	Fitting - Branch Tee, 8 SAE x 8 JIC (SAE 070429)	1
29	29926	Hose Assembly - Components: J, K & C @ 16 inches (41 cm)	1
30	29925	Hose Assembly - Components: H, G & A @ 9 inches (23 cm)	1
31	13799	Fitting - Connector, 4 SAE x 6 JIC (SAE 070120)	5
32	31313	Fitting - Extended Connector, 4 SAE x 6 JIC (SAE 070122)	5
33	13755	Fitting - Connector, 4 SAE x 4 JIC (SAE 070120)	1
34	31314	Fitting - Extended Connector, 4 SAE x 4 JIC (SAE 070122)	1
35	31382	Tube Assembly - Hand Pump, Pressure	1
36	31383	Fitting - 90° Elbow, 6 JIC x 4 MPT (SAE 070202)	2
37	31381	Tube Assembly - Hand Pump, Suction	1

Hose Assembly Component List - Figure 4-L

A Hose - 3/8" Thermoplastic Medium Pressure (Synflex 3130-06)	G Hose End - Female JIC Swivel, 6-6 (Synflex 3903-06546)
B Hose - 1/2" Push On (Weatherhead H20108)	H Hose End - 45° Female JIC Swivel, 6-6 (Synflex 3903-06606)
C Hose - 1/2" Thermoplastic High Pressure (Synflex 3800-08)	I Hose End - Female JIC Swivel, 8-6 (Synflex 3903-06548)
D Hose - 3/4" Push On (Weatherhead H20112)	J Hose End - Female JIC Swivel, 8-8 (Synflex 3903-08548)
E Hose - 3/4" Suction (Weatherhead H03912)	K Hose End - 45° Female JIC Swivel, 8-8 (Synflex 3903-08608)
F Hose - 1.0" Suction (Weatherhead H03916)	

Figure 4-M

Hydraulic Hoses and Fittings - Bi-fuel and Tri-fuel Models

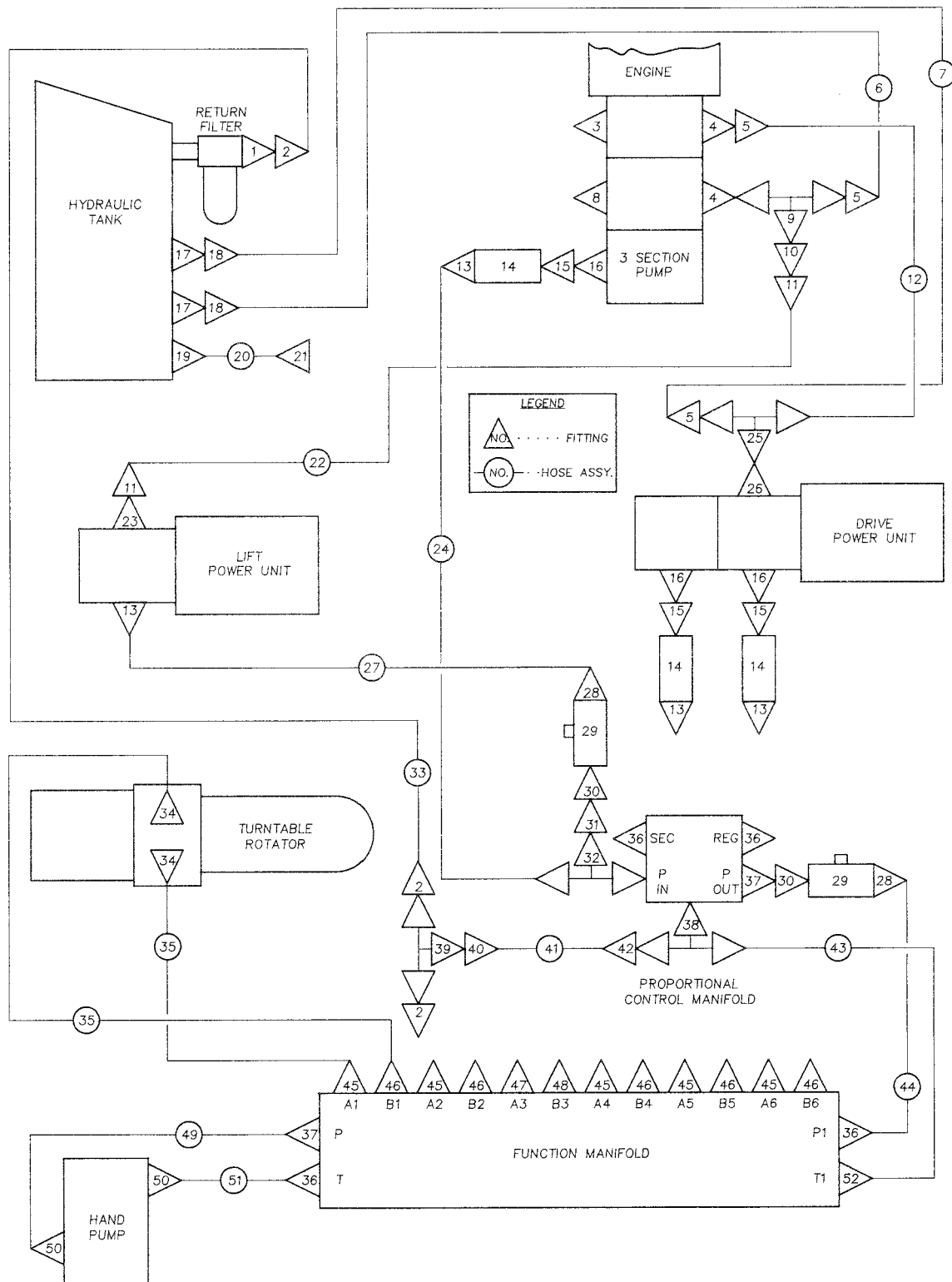


FIGURE 4-M

Index	Part No.	Description	Quantity This Figure
1	27202	Fitting - 90° Elbow, 16 MPT x 12 JIC (SAE 070202)	1
2	45170	Fitting - Swivel Hose End, 12 JIC x 0.75 inch Barb	3
3	21247	Fitting - Connector, 10 SAE x 10 JIC (SAE 070120)	1
4	31796	Fitting - 45° Elbow, 12 SAE x 16 JIC SAE 070320)	2
5	21250	Fitting - Swivel Coupler, 16 JIC x 1 inch Barb	3
6	31812	Hose - Component: F @ 64 inches (163 cm)	1
7	31811	Hose - Component: F @ 47 inches (119 cm)	1
8	21248	Fitting - 45° Elbow, 10 SAE x 10 JIC SAE 070320)	1
9	20714	Fitting - Swivel Run Tee, 16 JIC (SAE 070432)	1
10	20712	Fitting - Reducer, 16 JIC x 12 JIC (SAE 070123)	1
11	45359	Fitting - Swivel Connector, 12 JIC x 0.75 inch Barb	2
12	31807	Hose Assembly - Components: L & F @ 16 inches (41 cm)	1
13	45703	Fitting - Connector, 8 SAE x 8 JIC (SAE 070120)	4
14	31798	Valve - Check	3
15	31797	Fitting - Adapter, 8 SAE x 8 JIC	3
16	45349	Fitting - 45° Elbow, 8 SAE x 8 JIC (SAE 070320)	3
17	45161	Strainer Assembly	2
18	45166	Fitting - Hose End, 16 MPT x 1 inch Barb	2
19	10355	Fitting - Connector, 6 MPT x 6 JIC (SAE 070102)	1
20	31393	Hose Assembly - Components: G , H & A @ 9 inches (23 cm)	1
21	19141	Fitting - Male Plug, 6 JIC (SAE 070109)	1
22	31810	Hose - Component: E @ 38 inches (96 cm)	1
23	31114	Fitting - 45° Elbow, 10 SAE x 12 JIC (SAE 070320)	1
24	31808	Hose Assembly - Components: I , K & C @ 20 inches (51 cm)	1

This parts list continues on page 4-37.

A hose assembly component list is provided on page 4-39.

FIGURE 4-M

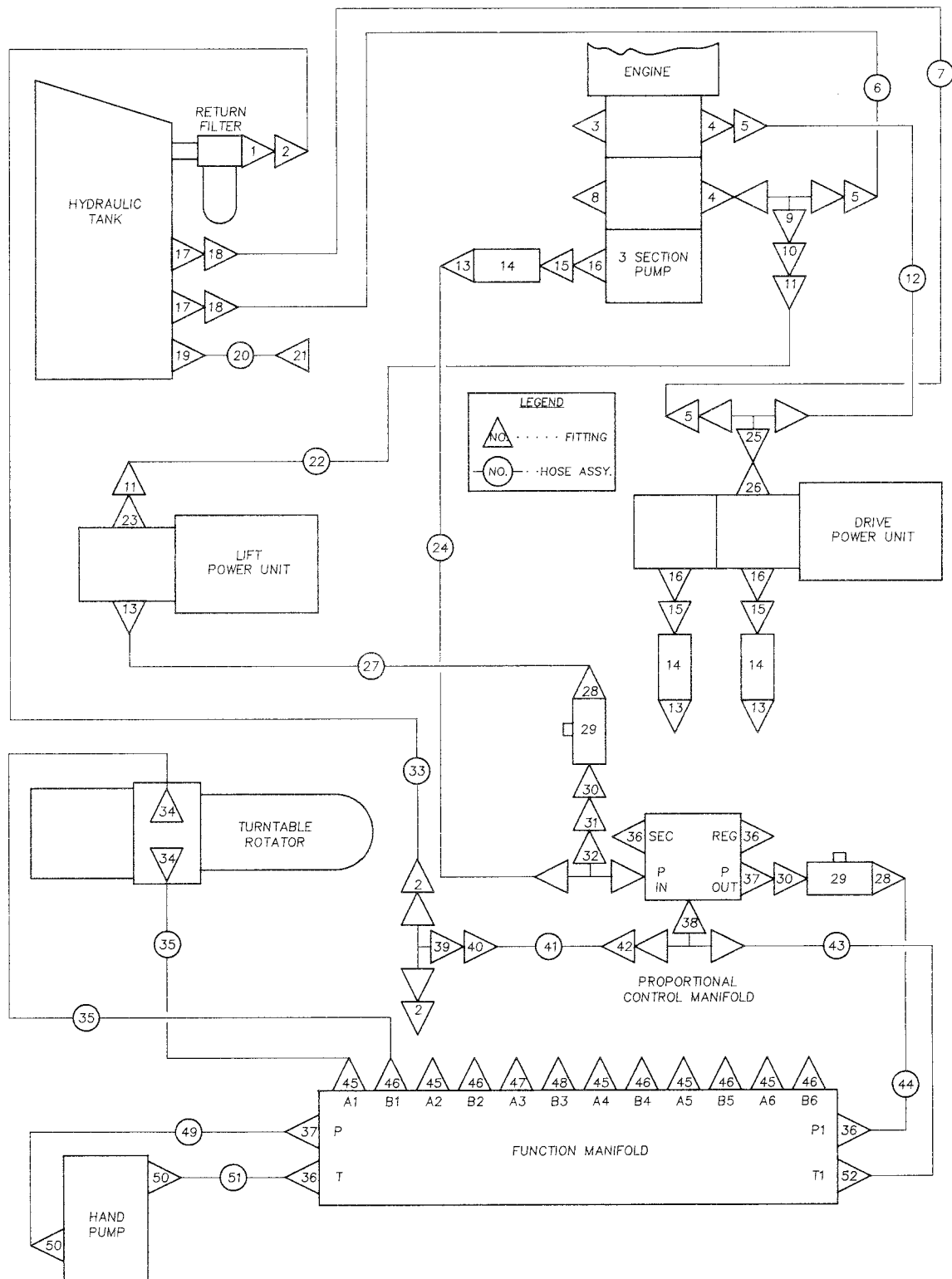


FIGURE 4-M

Index	Part No.	Description	Quantity This Figure
25	31795	Fitting - Swivel Branch Tee, 16 JIC (SAE 070433)	1
26	20710	Fitting - Connector, 12 SAE x 16 JIC (SAE 070120)	1
27	31805	Hose Assembly - Components: G, G & A @ 37 inches (94 cm)	1
28	45412	Fitting - Connector, 6 SAE x 6 JIC (SAE 070120)	2
29	30360	Valve Check	2
30	30392	Fitting - Adapter, 6 SAE x 6 JIC	2
31	45361	Fitting - Adaptor, 8 JIC x 6 JIC (SAE 010105)	1
32	20334	Fitting - Run Tee, 8 SAE x 8 JIC (SAE 070428)	1
33	31813	Hose - Component: D @ 60 inches (152 cm)	1
34	27421	Fitting - 45° Elbow, 10 SAE x 6 JIC (SAE 070320)	2
35	19136	Hose Assembly - Components: G, G & A @ 35.5 inches (90 cm)	2
36	28448	Fitting - 90° Elbow, 8 SAE x 6 JIC (SAE 070220)	4
37	18687	Fitting - Connector, 8 SAE x 6 JIC (SAE 070120)	1
38	22540	Fitting - Branch Tee, 8 SAE x 8 JIC (SAE 070429)	1
39	28460	Fitting - Female Branch Tee, 12 JIC x 12 MPT (SAE 070427)	1
40	29909	Fitting - Male Hose End, 12 MPT x 1/2 inch Barb	1
41	29927	Hose - Component: B @ 18 inches (46 cm)	1
42	20324	Fitting - Hose End, 8 JIC Swivel x 1/2 inch Barb	1
43	29926	Hose Assembly - Components: I, J & C @ 16 inches (41 cm)	1
44	29925	Hose Assembly - Components: G, H & A @ 9 inches (23 cm)	1
45	13799	Fitting - Connector, 4 SAE x 6 JIC (SAE 070120)	5
46	31313	Fitting - Extended Connector, 4 SAE x 6 JIC (SAE 070122)	5
47	13755	Fitting - Connector, 4 SAE x 4 JIC (SAE 070120)	1
48	31314	Fitting - Extended Connector, 4 SAE x 4 JIC (SAE 070122)	1

This parts list with a hose assembly component list continues on page 4-39.

FIGURE 4-M

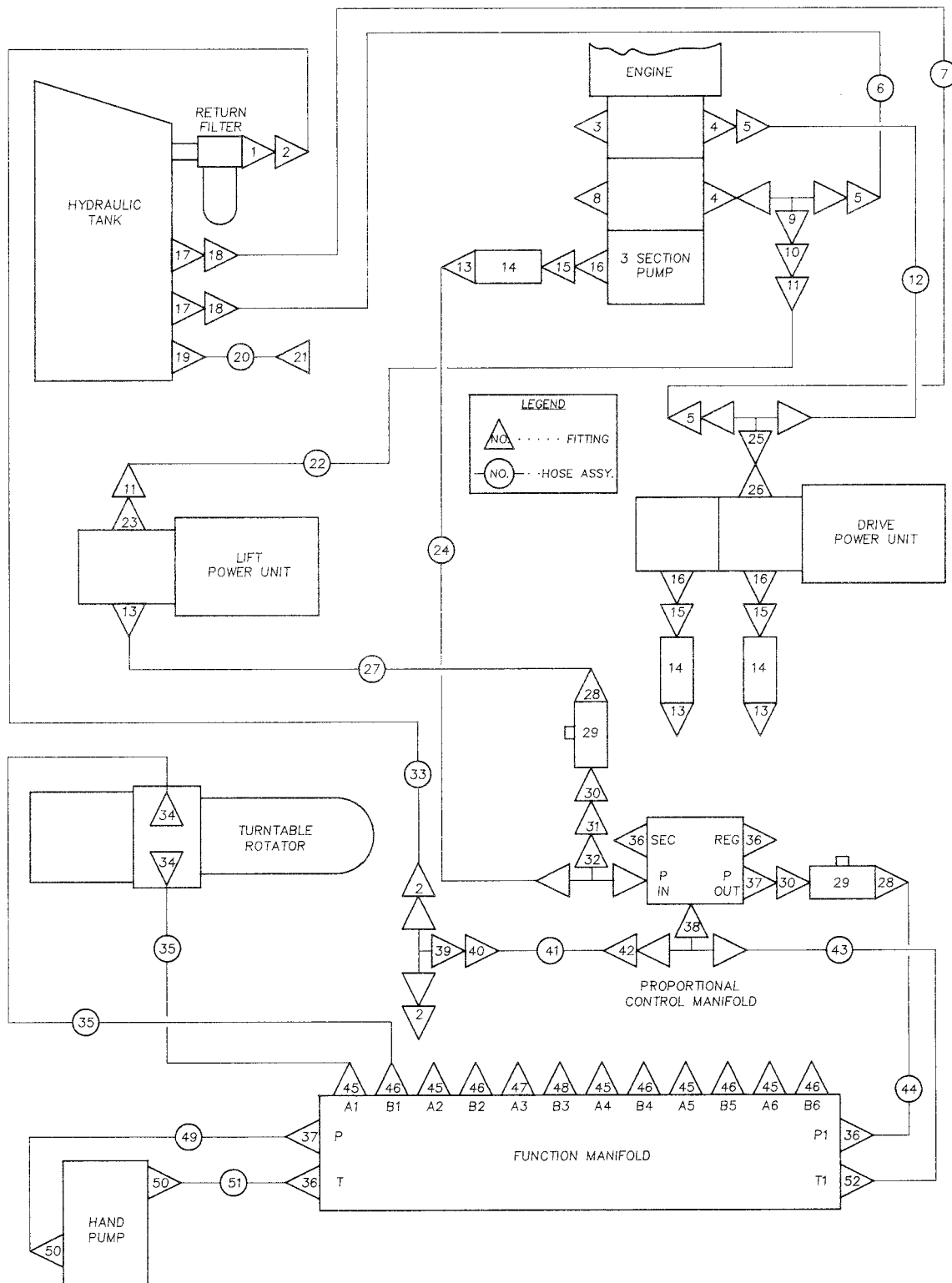


FIGURE 4-M

Index	Part No.	Description	Quantity This Figure
49	31382	Tube Assembly - Hand Pump, Pressure	1
50	31383	Fitting - 90° Elbow, 6 JIC x 4 MPT (SAE 070202)	2
51	31381	Tube Assembly - Hand Pump, Suction	1
52	45357	Fitting - 90° Elbow, 8 SAE x 8 JIC (SAE 070220)	1

Hose Assembly Component List - Figure 4-M

A Hose - 3/8" Thermoplastic Medium Pressure (Synflex 3130-06)	G Hose End - Female JIC Swivel, 6-6 (Synflex 3903-06546)
B Hose - 1/2" Push On (Weatherhead H20108)	H Hose End - 45° Female JIC Swivel, 6-6 (Synflex 3903-06606)
C Hose - 1/2" Thermoplastic High Pressure (Synflex 3800-08)	I Hose End - Female JIC Swivel, 8-8 (Synflex 3903-08548)
D Hose - 3/4" Push On (Weatherhead H20112)	J Hose End - 45° Female JIC Swivel, 8-8 (Synflex 3903-08608)
E Hose - 3/4" Suction (Weatherhead H03912)	K Hose End - 90° Female JIC Swivel, 8-8 (Synflex 3903-08648)
F Hose - 1.0" Suction (Weatherhead H03916)	L Hose End, 90° Female JIC Swivel, 16-16 (Weatherhead 16U-676)

Figure 4-N

Hydraulic Hoses and Fittings - Gas/LPG and Diesel Models

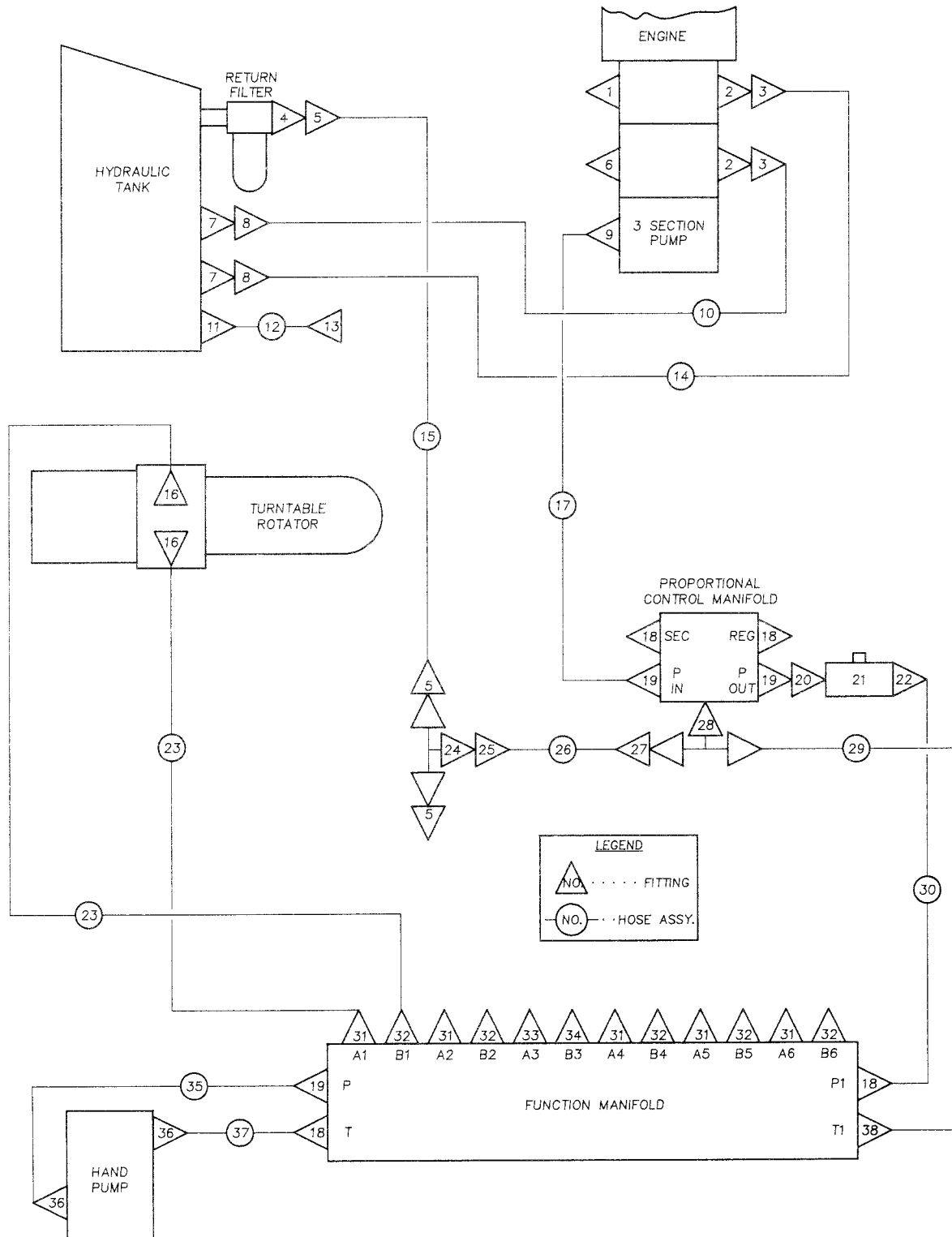


FIGURE 4-N

Index	Part No.	Description	Quantity This Figure
1	21247	Fitting - Connector, 10 SAE x 10 JIC (SAE 070120)	1
2	31796	Fitting - 45° Elbow, 12 SAE x 16 JIC (SAE 070320)	2
3	21250	Fitting - Swivel Coupler, 16 JIC x 16 Barb	2
4	27202	Fitting - 90° Elbow, 16 MPT x 12 JIC (SAE 070202)	1
5	45170	Fitting - Swivel Hose End, 12 JIC x 0.75 inch Barb	3
6	21248	Fitting - 45° Elbow, 10 SAE x 10 JIC (SAE 070320)	1
7	45161	Strainer Assembly	2
8	45166	Fitting - Hose End, 16 MPT x 1 inch Barb	2
9	24058	Fitting - 45° Elbow, 10 SAE x 8 JIC, (SAE 070320)	1
10	31812	Hose - Component E @ 67 inches (170 cm)	1
11	10355	Fitting - Connector, 6 MPT x 6 JIC (SAE 070102)	1
12	31393	Hose Assembly - Components: G, H & A @ 9 inches (23 cm)	1
13	19141	Fitting - Male Plug, 6 JIC (SAE 070109)	1
14	32009	Hose - Component: E @ 61.75 inches (157 cm)	1
15	31813	Hose - Component: D @ 60 inches (152 cm)	1
16	27421	Fitting - 45° Elbow, 10 SAE x 6 JIC (SAE 070320)	2
17	31808	Hose Assembly - Components: I, L & C @ 24.5 inches (62 cm)	1
18	28448	Fitting - 90° Elbow, 8 SAE x 6 JIC (SAE 070220)	4
19	18687	Fitting - Connector, 8 SAE x 6 JIC (SAE 070120)	2
20	30392	Fitting - Adapter, 6 SAE x 6 JIC	1
21	30360	Valve - Check	1
22	45412	Fitting - Connector, 6 SAE x 6 JIC (SAE 070120)	1
23	19136	Hose Assembly - Components: H, H & A @ 27 inches (68.5 cm)	2
24	28460	Fitting - Female Branch Tee, 12 JIC x 12 MPT (SAE 070427)	1
25	29909	Fitting - Male Hose End, 12 MPT x 1/2 inch Barb	1
26	29927	Hose - Component: B @ 18 inches (46 cm)	1

This parts list with a hose assembly component list continues on page 4-43.

FIGURE 4-N

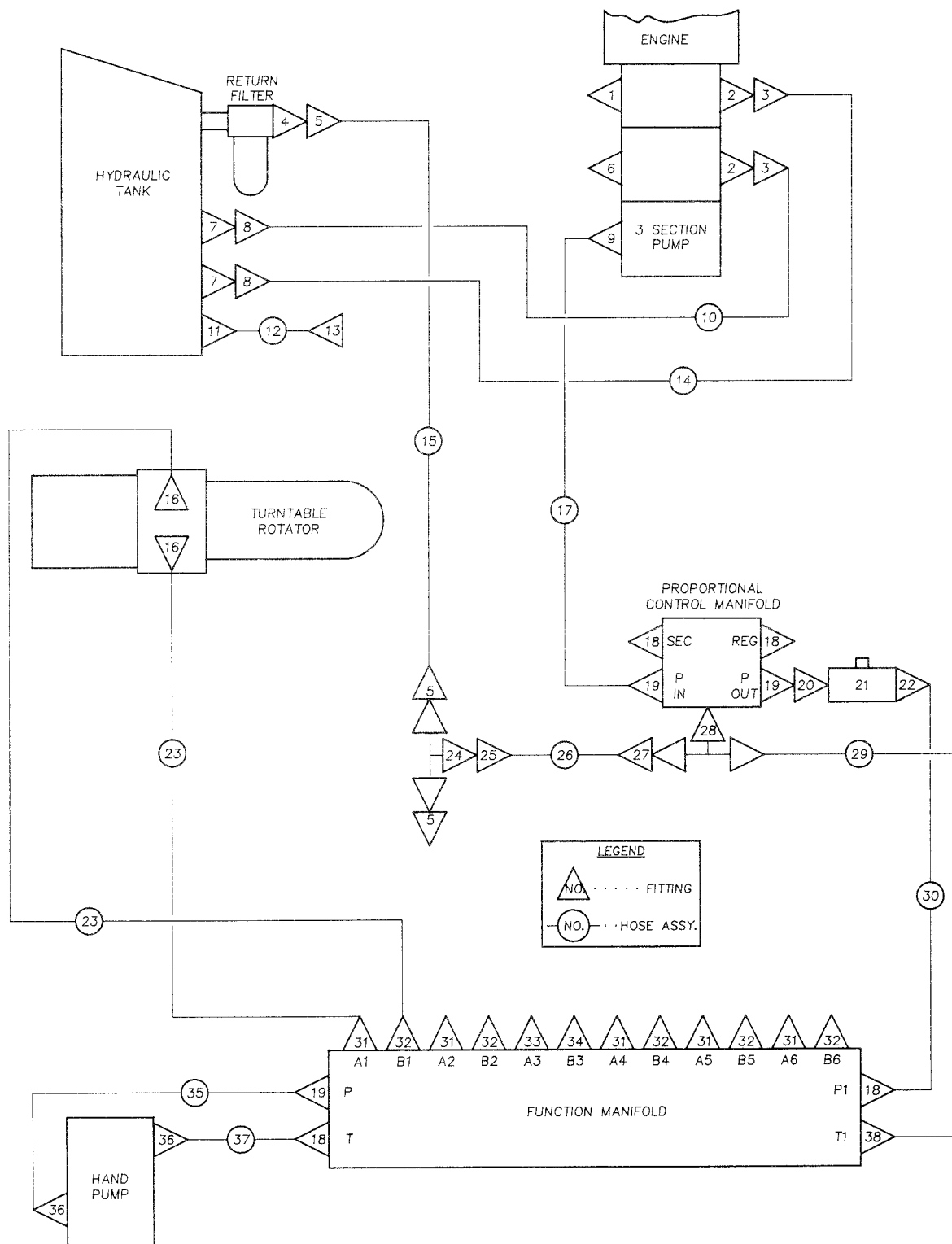


FIGURE 4-N

Index	Part No.	Description	Quantity This Figure
27	20324	Fitting - Hose End, 8 JIC Swivel x 1/2 inch Barb	1
28	22540	Fitting - Branch Tee, 8 SAE x 8 JIC (SAE 070429)	1
29	29926	Hose Assembly - Components: I, J & C @ 16 inches (41 cm)	1
30	29925	Hose Assembly - Components: G, H & A @ 9 inches (23 cm)	1
31	13799	Fitting - Connector, 4 SAE x 6 JIC (SAE 070120)	5
32	31313	Fitting - Extended Connector, 4 SAE x 6 JIC (SAE 070122)	5
33	13755	Fitting - Connector, 4 SAE x 4 JIC (SAE 070120)	1
34	31314	Fitting - Extended Connector, 4 SAE x 4 JIC (SAE 070122)	1
35	31382	Tube Assembly - Hand Pump, Pressure	1
36	31383	Fitting - 90° Elbow, 6 JIC x 4 MPT (SAE 070202)	2
37	31381	Tube Assembly - Hand Pump, Suction	1
38	45357	Fitting - 90° Elbow, 8 SAE x 8 JIC (SAE 070220)	1

Hose Assembly Component List - Figure 4-N

A Hose - 3/8" Thermoplastic Medium Pressure (Synflex 3130-06)	H Hose End - 45° Female JIC Swivel, 6-6 (Synflex 3903-06606)
B Hose - 1/2" Push On (Weatherhead H20108)	I Hose End - Female JIC Swivel, 8-8 (Synflex 3903-08548)
C Hose - 1/2" Thermoplastic High Pressure (Synflex 3800-08)	J Hose End - 45° Female JIC Swivel, 8-8 (Synflex 3903-08608)
D Hose - 3/4" Push On (Weatherhead H20112)	K Hose End - Female JIC Swivel, 10-8 (Synflex 3903-08550)
E Hose - 1.0" Suction (Weatherhead H03916)	L Hose End - 90° Female JIC Swivel, 8-8 (Synflex 3903-08648)
F Hose End - Female JIC Swivel, 4-4 (Synflex 3903-04544)	
G Hose End - Female JIC Swivel, 6-6 (Synflex 3903-06546)	

Notes

Section Five

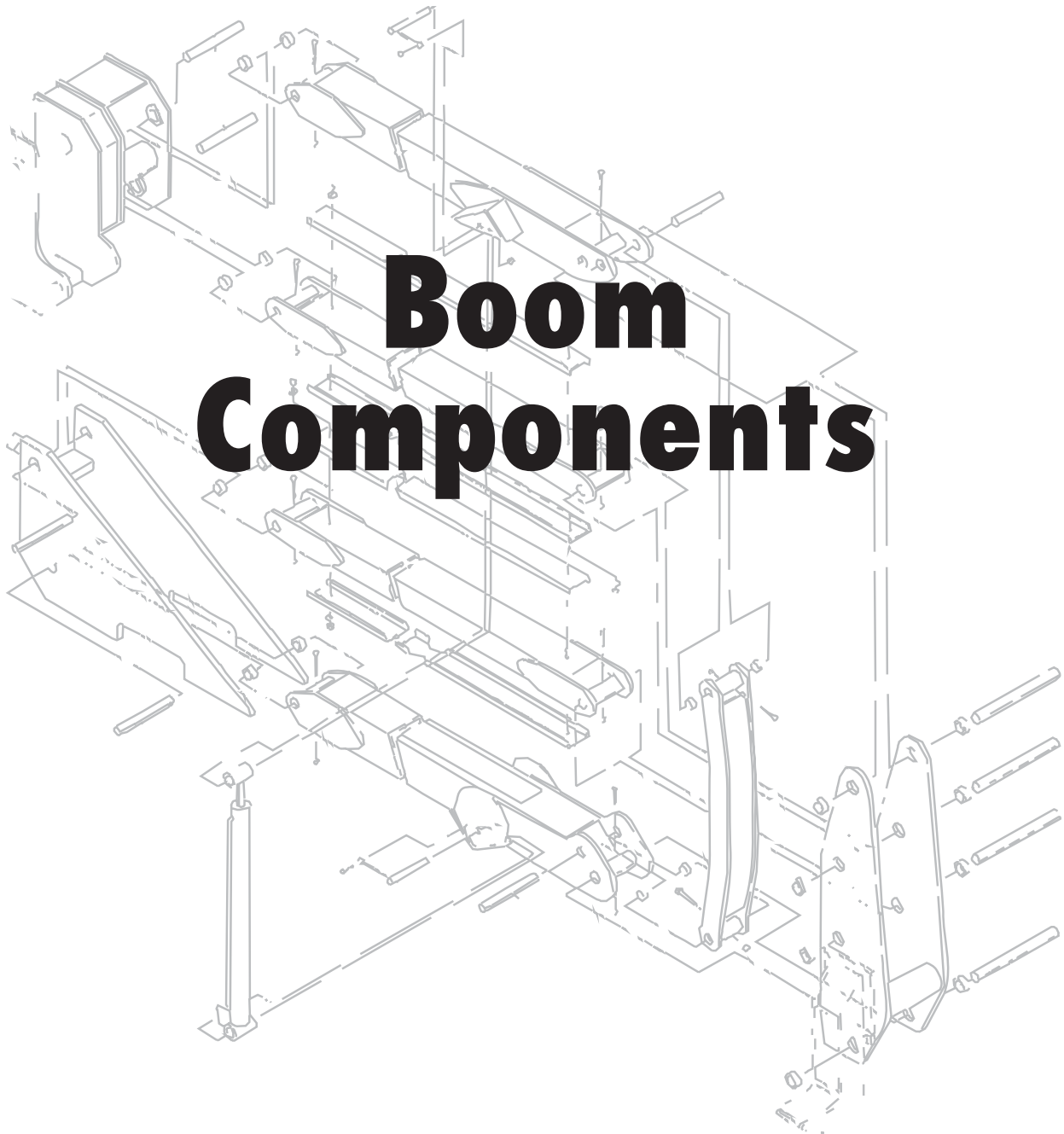


Figure 5-A

Secondary Boom

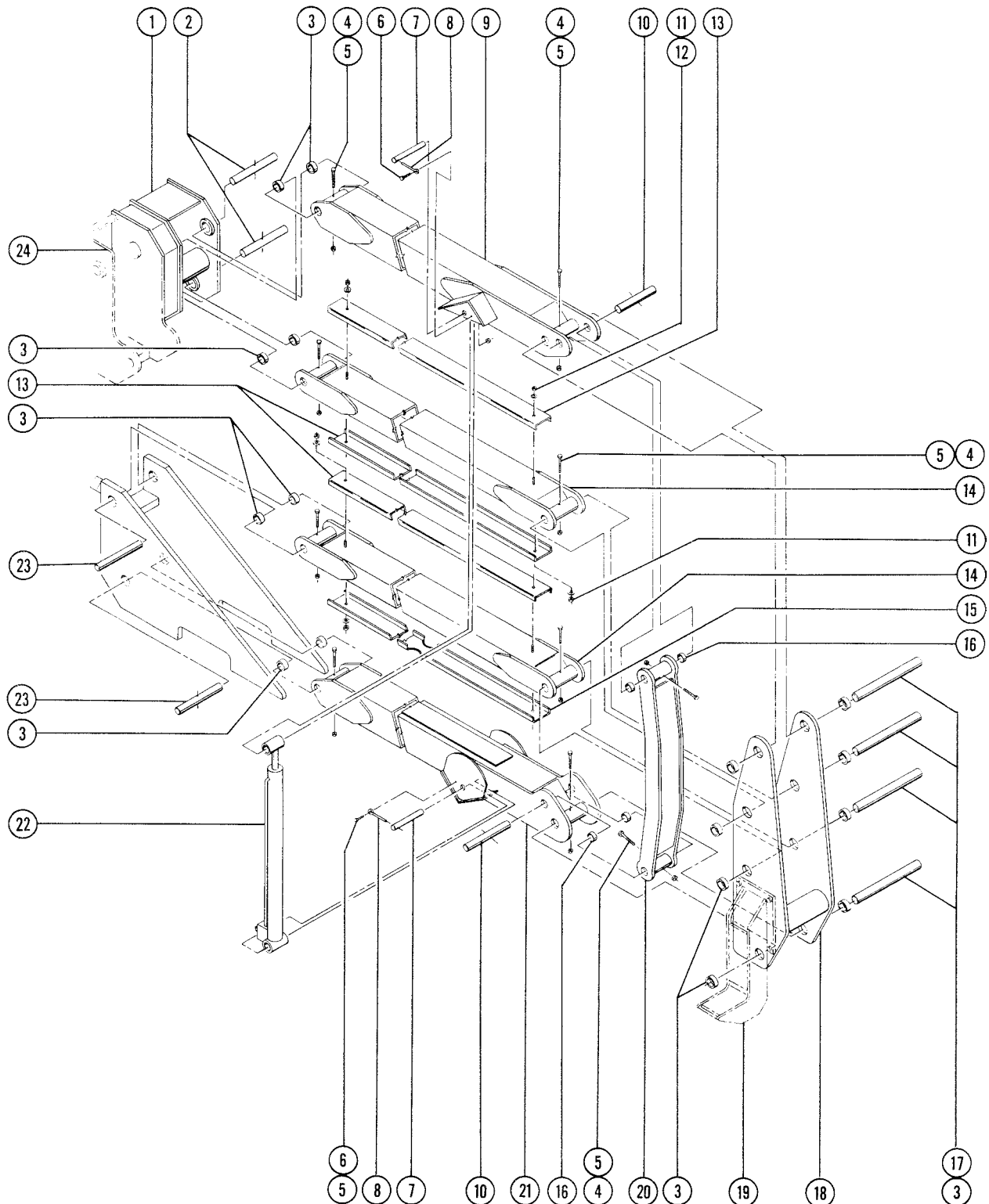


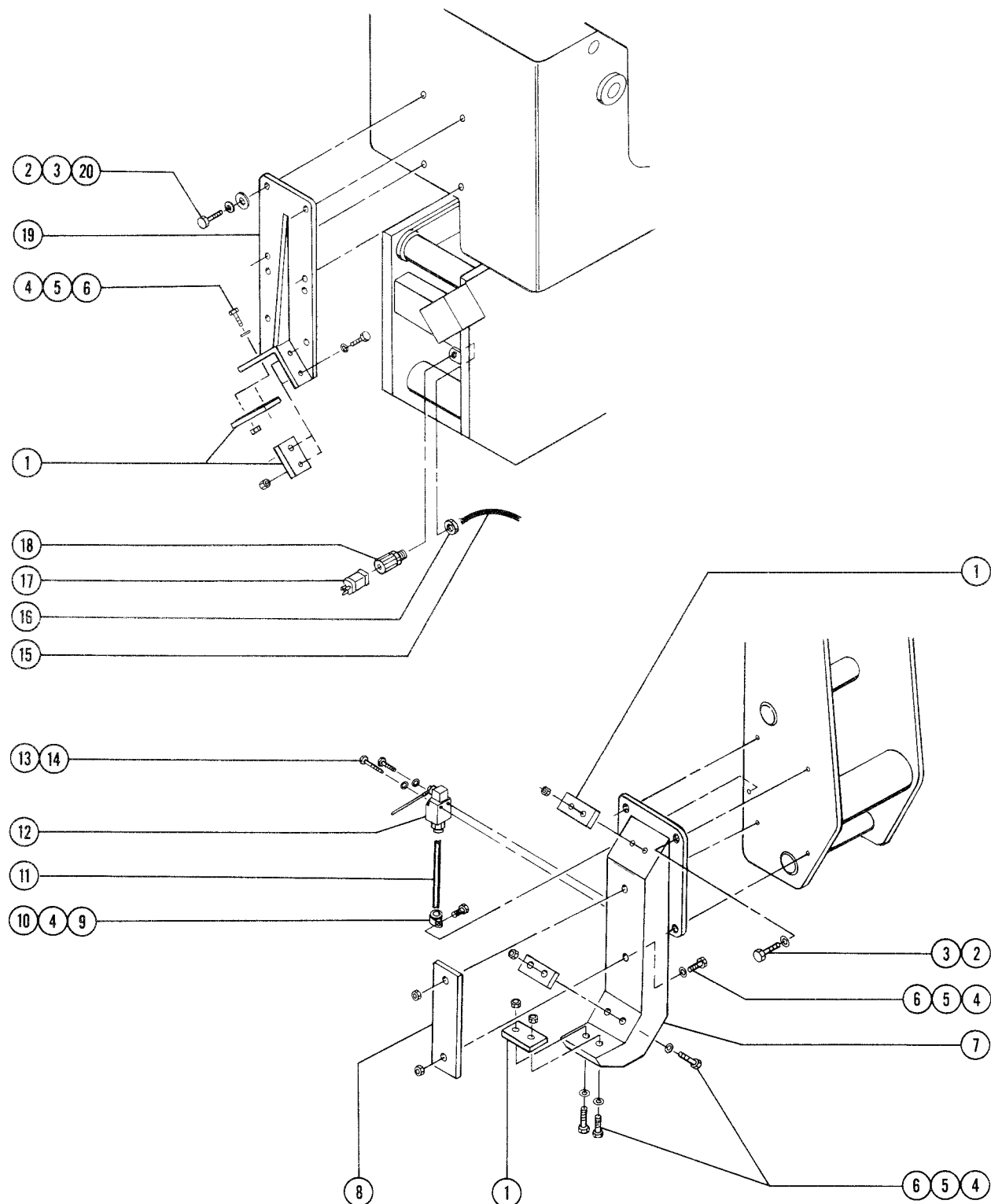
FIGURE 5-A

Index	Part No.	Description	Quantity This Figure
1	27552	Upper Mid-pivot Assembly (includes 6 each index number 3)	1
2	25061	Pin - Upper Mid-pivot, 11 x 1.5 inch (27.9 x 4 cm)	2
3	45071	Bearing, 1.5 x 1.75 x 1.5 inch (3.8 x 4.4 x 3.8 cm)	16
4	6326	Screw - HHC, $\frac{3}{8}$ -16 x 3 inch, GR 5	10
5	4828	Nut - Nylock, $\frac{3}{8}$ -16	14
6	6019	Screw - HHC, $\frac{3}{8}$ -16 x 1.25 inch, GR 5	4
7	25063	Pin - Secondary Lift Cylinder, 6 x 1 inch (15.2 x 2.5 cm)	4
8	45226	Rod End	4
9	27553	Upper Secondary Boom Assembly (includes 2 each index number 16)	1
10	25677	Pin - Connecting Link 8 x 1.5 inch (20 x 4 cm)	2
11	6091	Nut - Nylock, $\frac{1}{4}$ -20	8
12	6638	Washer - Flat, $\frac{1}{4}$ inch	8
13	45392P	Hose Cover	3
14	27032	Weldment - Leveling Link	2
15	25850P	Hose Cover Assembly	1
16	45268	Bearing, 1.5 x 1.75 x 0.63 inch (3.8 x 4.4 x 1.6 cm)	4
17	25060	Pin - Mid-pivot 11 x 1.5 inch (27.9 x 4 cm)	4
18	27554	Lower Mid-pivot Assembly (includes 8 each index number 3)	1
19	Ref.	Primary Boom Rest (refer to figure 5-B, page 5-4)	—
20	45117	Weldment - Connecting Link	1
21	27555	Lower Secondary Boom Assembly (includes 2 each index number 16)	1
22	31105	Hydraulic Cylinder Kit - Secondary Lift	2
—	18471	Seal Kit - Secondary Lift Cylinder	—
—	31106	Counterbalance Valve - Secondary Lift Cylinder	—
—	45070	Bearing - Secondary Lift Cylinder	—
23	25059	Pin - Base Pivot, 11.25 x 1.5 inch (28.6 x 4 cm)	2
24	Ref.	Upper Mid-pivot Rest (refer to figure 5-B, page 5-4)	—

Figure 5-B

REV B

Upper Mid-pivot And Primary Boom Rests



REV B

FIGURE 5-B

Index	Part No.	Description	Quantity This Figure
1	45209	Wear Pad, 2 x 4 x 0.5 inch (5.1 x 10.2 x 1.3 cm)	5
2	10597	Screw - HHC, 1/2 -13 x 1.25 inch, GR 5	8
3	6033	Washer - Lock, 1/2 inch	8
4	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	13
5	6356	Washer - Lock, 1/4 inch	12
6	6357	Nut - Hex, 1/4 -20	12
7	28469	Weldment - Primary Boom Rest	1
8	25635	Wear Pad, 12 x 4 x 0.5 inch (30.5 x 10.2 x 1.3 cm)	1
9	6833	Clamp - Rubber Cushioned, 0.5 inch	1
10	6091	Nut - Nylock, 1/4 -20	1
11	6562	Electrical Cord, 16 Gauge (1.30 mm ²), 4 Conductor SJO	180 inches (457 cm)
12	23324	Switch - Limit with Arm	1
—	19491	Contact - N.O.	—
—	22359	Arm - Limit Switch	—
13	6179	Screw - RHM, 10-32 x 1.25 inch	2
14	6607	Washer - Lock, No. 10	2
15	6993	Electrical Cord, 14 Gauge (2.08 mm ²), 3 Conductor SJO	744 inches (18.9 m)
16	6935	Locknut - Electric, 0.5 inch	1
17	119403	Electrical Plug - North American, 120V	1
—	12153	Electrical Plug - British 3 Pin, 110V	—
—	6666	Electrical Plug - European 2 Pin, 220V	—
18	7056	Squeeze Connector	1
19	28470	Weldment - Upper Mid pivot Rest	1
20	6095	Washer - Flat, 1/2 inch	4

Figure 5-C

Upper Mid-pivot

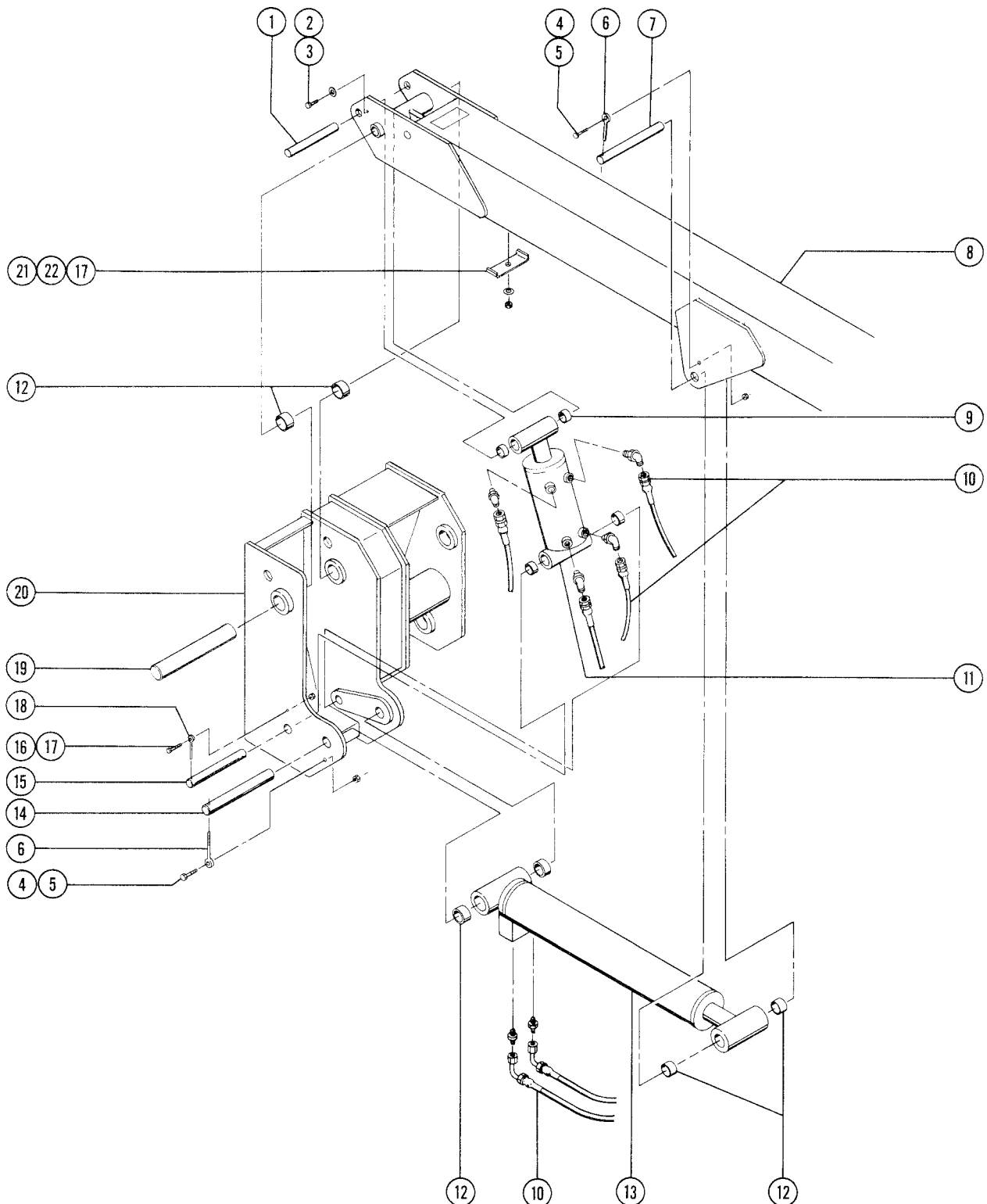


FIGURE 5-C

Index	Part No.	Description	Quantity This Figure
1	25678	Pin - Master Cylinder, Rod End, 7.25 x 1 inch (18.0 x 2.5 cm)	1
2	8914	Screw - HHC, 1/4 -20 x 0.625 inch, GR 5	1
3	12906	Washer - Fender, 0.25 x 1.25 inch	1
4	8516	Screw - HHC, 3/8 -16 x 0.5 inch, GR 5	2
5	4828	Nut - Nylock, 3/8 -16	2
6	45226	Rod End	2
7	25857	Pin - Primary Lift Cylinder, Rod End, 8 x 1.5 inch (20 x 4 cm)	1
8	24580	Weldment - Primary Boom	1
9	45070	Bearing , 1 x 1.12 x 0.75 inch (2.5 x 2.8 x 1.9 cm)	4
10	Ref.	Hydraulic Hoses & Fittings (refer to figure 5-G, page 5-16)	—
11	45561	Hydraulic Cylinder - Master (includes 4 each index number 9)	1
—	45898	Seal Kit - Master Cylinder	—
12	45071	Bearing, 1.5 x 1.75 x 1.5 inch (3.8 x 4.4 x 3.8 cm)	6
13	24655	Hydraulic Cylinder - Primary Lift (includes 4 each index number 12)	1
—	45550	Seal Kit - Primary Lift Cylinder	—
—	27637	Valve - Counterbalance	—
14	25062	Pin - Primary Lift Cylinder, Barrel End, 10 x 1.5 inch (25.4 x 4 cm)	1
15	25680	Pin - Master Cylinder, Barrel End, 9.56 x 1 inch (24.3 x 4 cm)	1
16	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	1
17	6091	Nut - Nylock, 1/4 -20	4
18	45748	Rod End	1
19	25676	Pin - Primary Boom, 11.5 x 1.5 inch (29.2 x 4 cm)	1
20	27552	Upper Mid-pivot Assembly (includes 6 each index number 12)	1
21	45104P	Hose Clamp	1
22	6638	Washer - Flat, 1/4 inch	1

Figure 5-D

Primary and Extension Booms

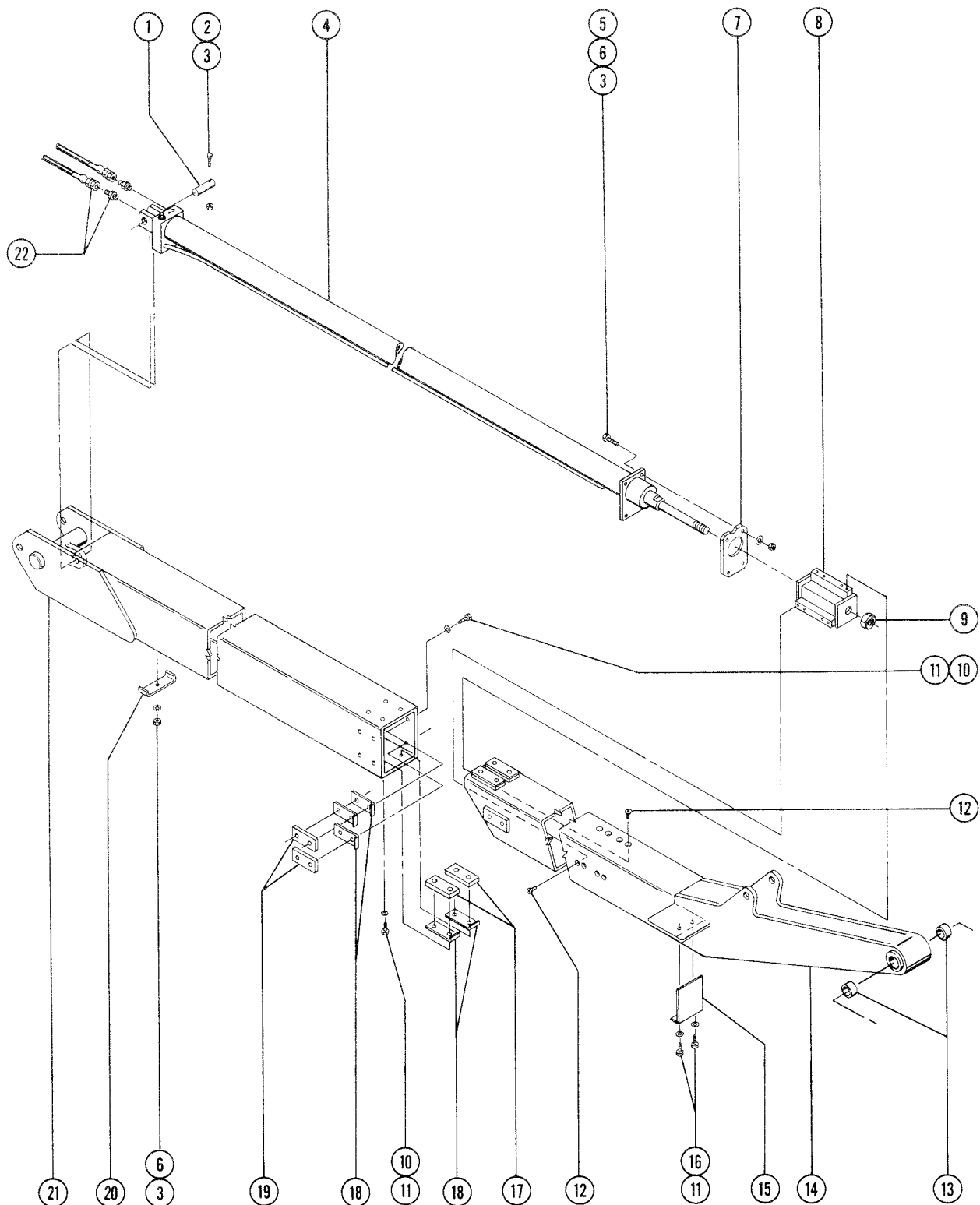


FIGURE 5-D

Index	Part No.	Description	Quantity This Figure
1	25679	Pin - Extension Cylinder, 3.3 x 1 inch (8 x 2.5 cm)	1
2	6145	Screw - HHC, 1/4 -20 x 1.5 inch, GR 5	1
3	6091	Nut - Nylock, 1/4 -20	8
4	29267	Hydraulic Cylinder - Extension	1
—	29183	Seal Kit - Extension Cylinder	—
—	31082	Valve - Counterbalance	—
5	8915	Screw - HHC, 1/4 -20 x 1.25 inch, GR 5	4
6	6638	Washer - Flat, 1/4 inch	7
7	45742	Slide Block - Extension Cylinder	1
8	45298	Weldment - Rod End	1
9	45303	Nut - Nylock, 1.125-12 UNF	1
10	8914	Screw - HHC, 1/4 -20 x 0.625 inch, GR 5	16
11	6356	Washer - Lock, 1/4 inch	18
12	45425	Screw - FHS, 3/8 -16 x 0.75 inch, GR 5	8
13	18238	Bearing, 1.5 x 1.65 x 2 inches (3.8 x 4.2 x 5.1 cm)	2
14	27678	Extension Boom Assembly (includes index number 13) (refer to figure 5-F, page 5-12)	1
15	27371	End Cap - Extension Boom	1
16	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	2
17	45745	Wear Pad - Black, 4 x 2 x 0.5 inch (10.2 x 5.1 x 0.13 cm)	2
18	45382	Shim - Primary Boom, 0.052 inch (1.32 mm)	8*
—	45465	Shim - Primary Boom, 0.022 inch (0.56 mm)	8*
19	45209	Wear Pad - White, 4 x 2 x 0.5 inch (10.2 x 5.1 x 0.13 cm)	6
20	45104P	Hose Clamp	3
21	27815	Weldment - Primary Boom	1
22	Ref.	Hydraulic Hoses & Fittings (refer to figure 5-G, page 5-16)	—

* Quantity listed for this item is approximate. Actual quantity may vary, to ensure proper fit.

Figure 5-E

Cable Track

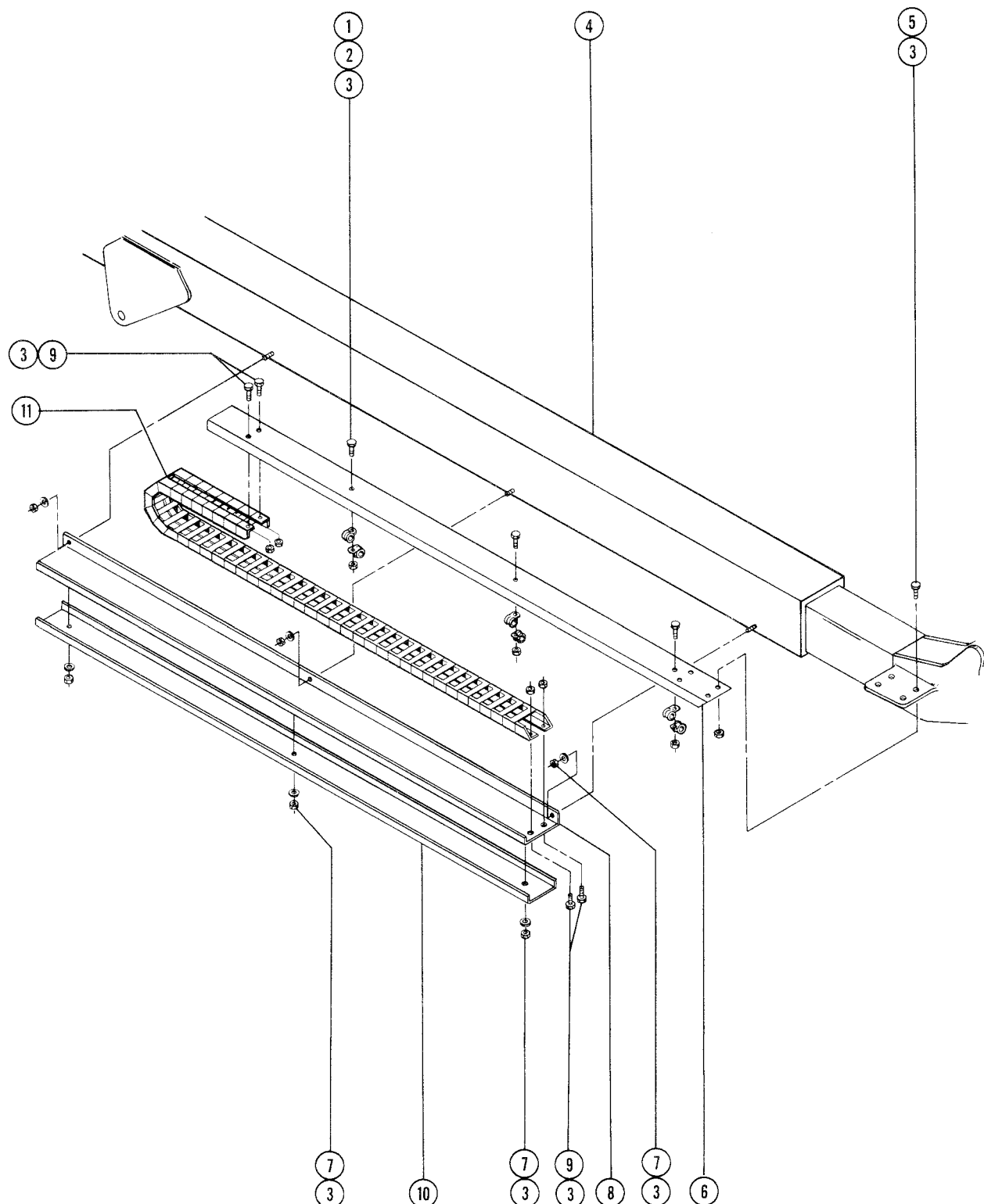


FIGURE 5-E

Index	Part No.	Description	Quantity This Figure
1	8914	Screw - HHC, 1/4 -20 x 0.625 inch, GR 5	3
2	13268	Clamp - Rubber Cushioned	6
3	6091	Nut - Nylock, 1/4 -20	17
4	Ref.	Primary Boom (refer to figure 5-D, page 5-8)	—
5	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	4
6	24998P	Hose Cover - Upper Cable Track	1
7	6638	Washer - Flat, 1/4 inch	6
8	25071P	Tray - Cable Track	1
9	7339	Screw - HHC, 1/4 -20 x 0.5 inch, GR 5	4
10	25072P	Hose Cover - Lower Cable Track	1
11	24670	Cable Track - 38 Link	1
—	27647	Repair Link Set - 7 Links	—
—	27699	Repair Link End Set	—

Figure 5-F

Platform Leveling and Rotation

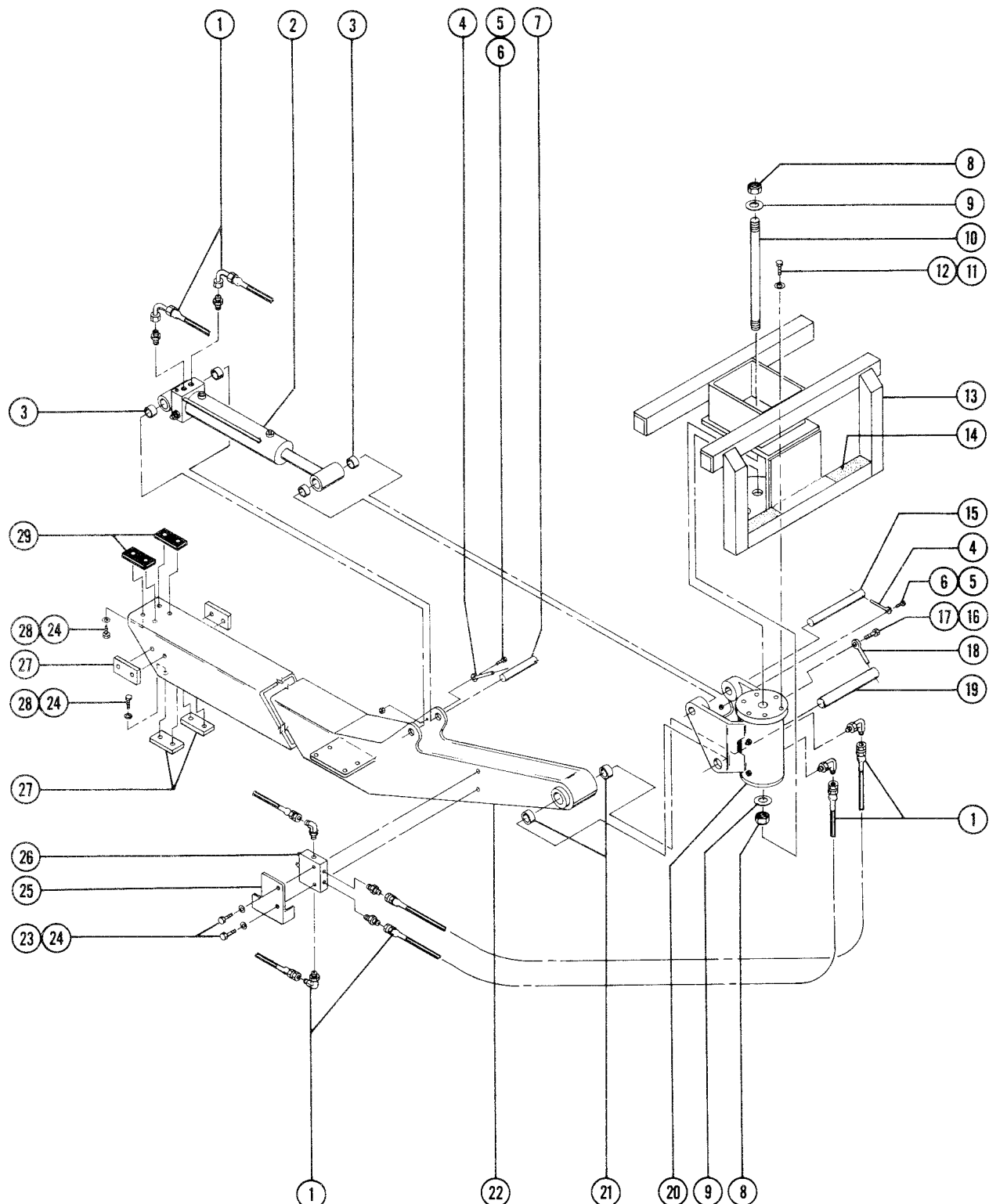


FIGURE 5-F

Index	Part No.	Description	Quantity This Figure
1	Ref.	Hydraulic Hoses & Fittings (refer to figure 5-G, page 5-16)	—
2	29082	Hydraulic Cylinder - Slave (includes 4 each index number 3)	1
—	19700	Seal Kit - Slave Cylinder	—
—	29083	Valve - Counterbalance	—
—	13852	Bleed Valve Assembly	—
3	45070	Bearing - 1 x 1.12 x 0.75 inch (2.5 x 2.8 x 1.9 cm)	4
4	45748	Rod End	2
5	6888	Screw - HHC, 1/4 -20 x 1 inch, GR 5	2
6	6091	Nut - Nylock, 1/4 -20	2
7	25065	Pin - Slave Cylinder, Barrel End, 6 x 1 inch (15 x 2.5 cm)	1
8	29764	Nut - Hex, 1-8	2
9	13775	Washer - Flat, 1.063 x 2 x 0.134 inch	2
10	29329-1300	Threaded Rod, Platform Rotation	1
11	10597	Screw - HHC, 1/2 -13 x 1.25 inch, GR 5	6
12	6033	Washer - Lock, 1/2 inch	6
13	27680	Platform Pivot Mount Assembly (includes index number 14)	1
14	1259	Non-Skid Tape, 2 inches (5.1 cm)	14 inches (35.5 cm)
15	25064	Pin - Slave Cylinder, Rod End 8 x 1 inch (20 x 2.5 cm)	1
16	6019	Screw - HHC, 3/8 -16 x 1.25 inch, GR 5	1
17	4828	Nut - Nylock, 3/8 -16	1
18	45226	Rod End	1
19	25816	Pin - Platform Pivot, 8.5 x 1.5 inch (22 x 4 cm)	1
20	24411P	Hydraulic Rotator - Platform	1
—	27681	Seal Kit - Platform Rotator	—
—	13852	Bleed Valve Assembly	—
21	18238	Bearing, 1.5 x 1.65 x 2 inch (3.8 x 4.2 x 5.1 cm)	4
22	27678	Extension Boom Assembly (includes 2 each index number 21)	1
23	6637	Screw - HHC, 1/4 -20 x 1.75 inch, GR 5	2

This parts list continues on page 5-15.

FIGURE 5-F

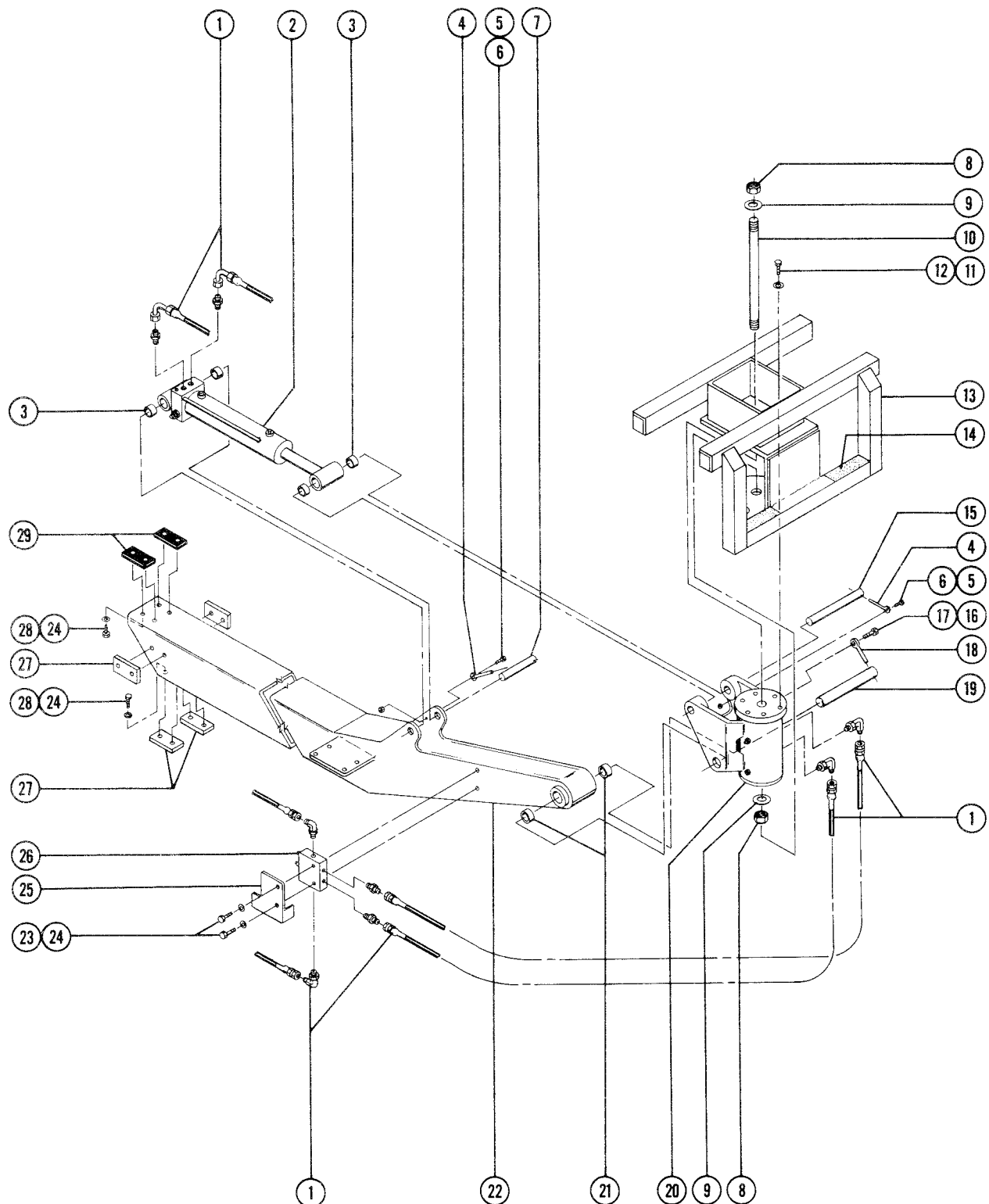


FIGURE 5-F

Index	Part No.	Description	Quantity This Figure
24	6356	Washer - Lock, 1/4 inch	6
25	25966P	Cover - Dual Counterbalance Valve	1
26	25654	Dual Counterbalance Valve	1
—	27047	Valve - Counterbalance	—
—	25375	O-Ring Kit (services all Compact Controls hydraulic cartridges)	—
27	45209	Wear Pad - White, 4 x 2 x 0.5 inch (10.2 x 5.1 x 0.13 cm)	4
28	6090	Screw - HHC, 1/4 -20 x 0.75 inch, GR 5	12
29	45745	Wear Pad - Black, 4 x 2 x 0.5 inch (10.2 x 5.1 x 0.13 cm)	2

Figure 5-G

Hydraulic Hoses And Fittings

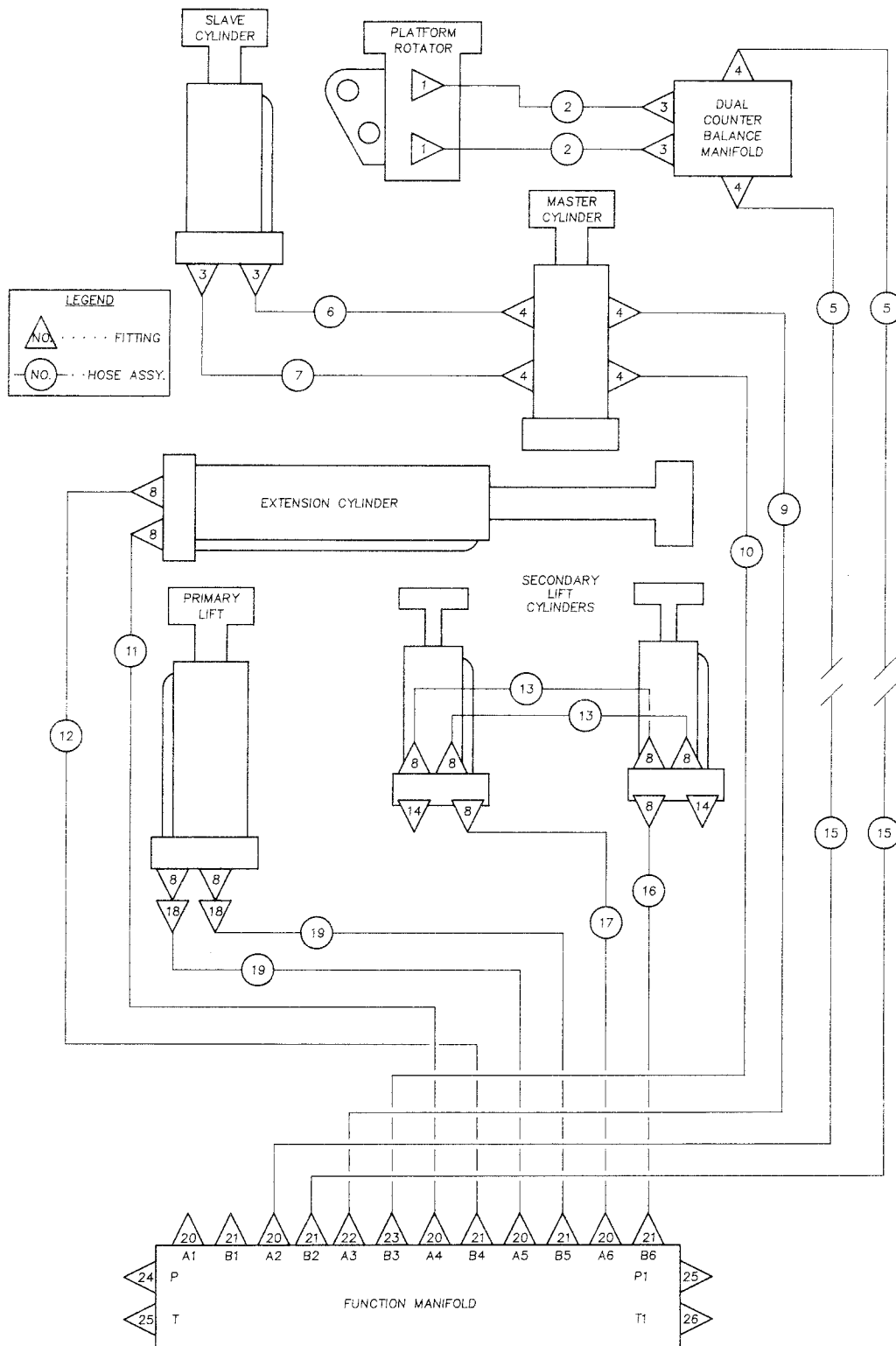


FIGURE 5-G

Index	Part No.	Description	Quantity This Figure
1	13921	Fitting - 90° Elbow, 4 SAE x 4 JIC (SAE 070220)	2
2	28007	Hose Assembly - Components: D, D & A @ 27 inches (69 cm)	2
3	13799	Fitting - Connector, 6 SAE x 4 JIC (SAE 070120)	4
4	12340	Fitting - 90° Elbow, 6 SAE x 4 JIC (SAE 070220)	6
5	28009	Hose Assembly - Components: D, E & A @ 274 inches (696 cm)	2
6	28006	Hose Assembly - Components: I, D & A @ 350 inches (889 cm)	1
7	28005	Hose Assembly - Components: I, D & A @ 343 inches (871 cm)	1
8	45412	Fitting - Connector, 6 SAE x 6 JIC (SAE 070120)	8
9	28003	Hose Assembly - Components: F, F & B @ 326 inches (828 cm)	1
10	28004	Hose Assembly - Components: F, F & B @ 318 inches (808 cm)	1
11	28001	Hose Assembly - Components: H, H & C @ 305 inches (775 cm)	1
12	28000	Hose Assembly - Components: H, H & C @ 299 inches (760 cm)	1
13	28316	Tube Assembly - Riser Cylinder Crossover	2
14	45395	Fitting - Hex Head Plug, 6 SAE (SAE 090109A)	2
15	28008	Hose Assembly - Components: D, G & A @ 336 inches (853 cm)	2
16	28147	Hose Assembly - Components: H, H & C @ 143 inches (363 cm)	1
17	28146	Hose Assembly - Components: H, H & C @ 140 inches (356 cm)	1
18	45367	Fitting - 90° Swivel Elbow, 6 SAE x 6 JIC (SAE 070221)	4
19	45533	Hose Assembly - Components: H, H & C @ 325 inches (826 cm)	2
20	13756	Fitting - Connector, 6 SAE x 4 JIC (SAE 070120)	5
21	31313	Fitting - Extended Connector, 4 SAE x 6 JIC (SAE 070122)	5

This parts list with a hose assembly component list continues on page 5-19.

FIGURE 5-G

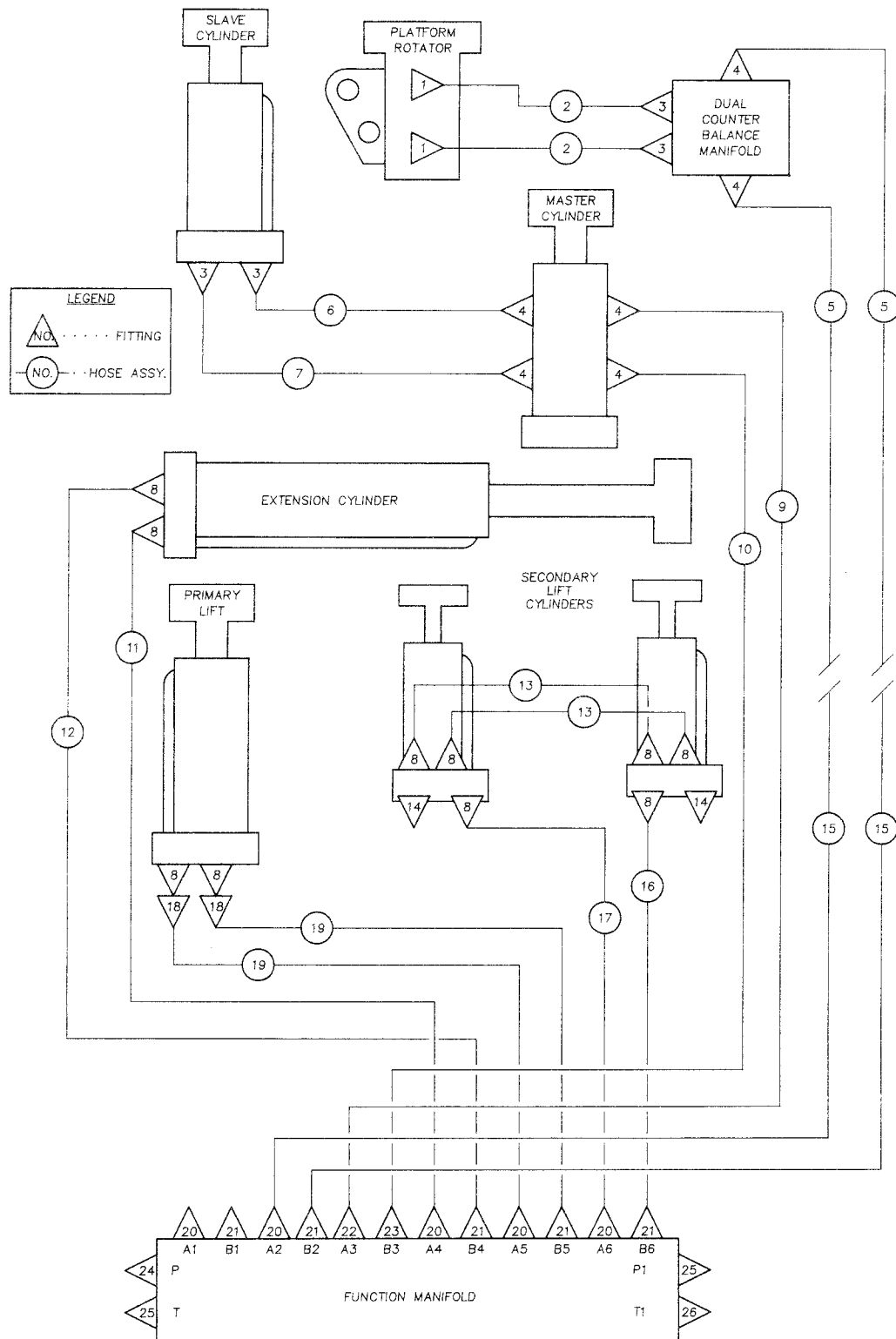


FIGURE 5-G

Index	Part No.	Description	Quantity This Figure
22	13755	Fitting - Connector, 4 SAE x 4 JIC (SAE 070120)	1
23	31314	Fitting - Extended Connector, 4 SAE x 4 JIC (SAE 070122)	1
24	18687	Fitting - Connector, 8 SAE x 6 JIC (SAE 070120)	1
25	28448	Fitting - 90° Elbow, 8 SAE x 6 JIC (SAE 070220)	2
26	45357	Fitting - 90° Elbow, 8 SAE x 8 JIC (SAE 070220)	1

Hose Assembly Component List - Figure 5-G

- | | |
|---|--|
| A. Hose - 1/4" Thermoplastic Medium Pressure (Synflex 3130-04) | F. Hose End - Female JIC Swivel, 4-2 (Synflex 3903-02544) |
| B. Hose - 1/8" Thermoplastic Medium Pressure (Synflex 3130-02) | G. Hose End - Female JIC Swivel, 4-6 (Synflex 3903-04546) |
| C. Hose - 3/8" Thermoplastic Medium Pressure (Synflex 3130-06) | H. Hose End - Female JIC Swivel, 6-6 (Synflex 3903-06546) |
| D. Hose End - Female JIC Swivel, 4-4 (Synflex 3903-04544) | I. Hose End - 90° Female JIC Swivel, 4-4 (Synflex 3903-04644) |
| E. Hose End - Male JIC 4-4 (Synflex 3903-04504) | |

Notes

Section Six

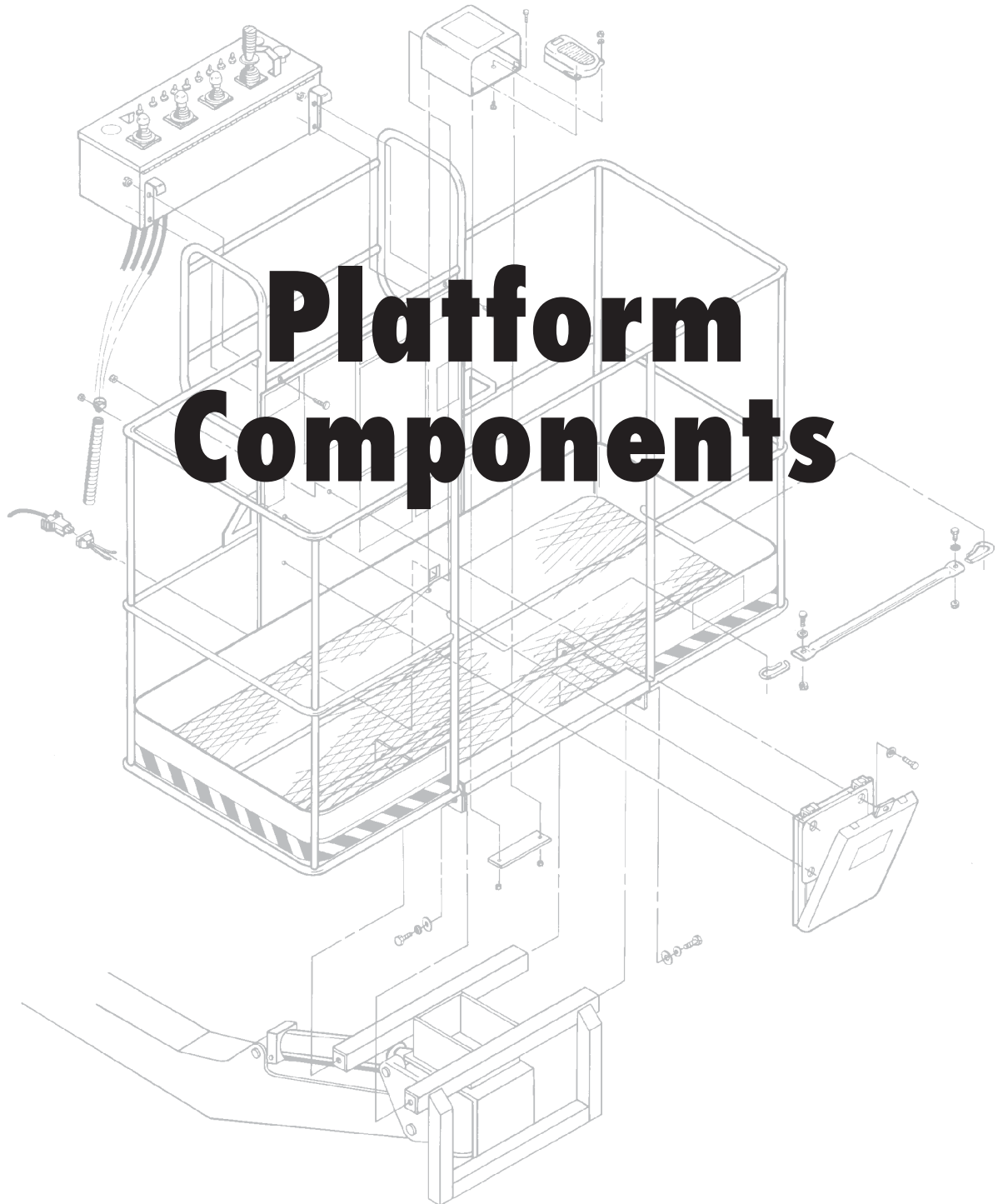
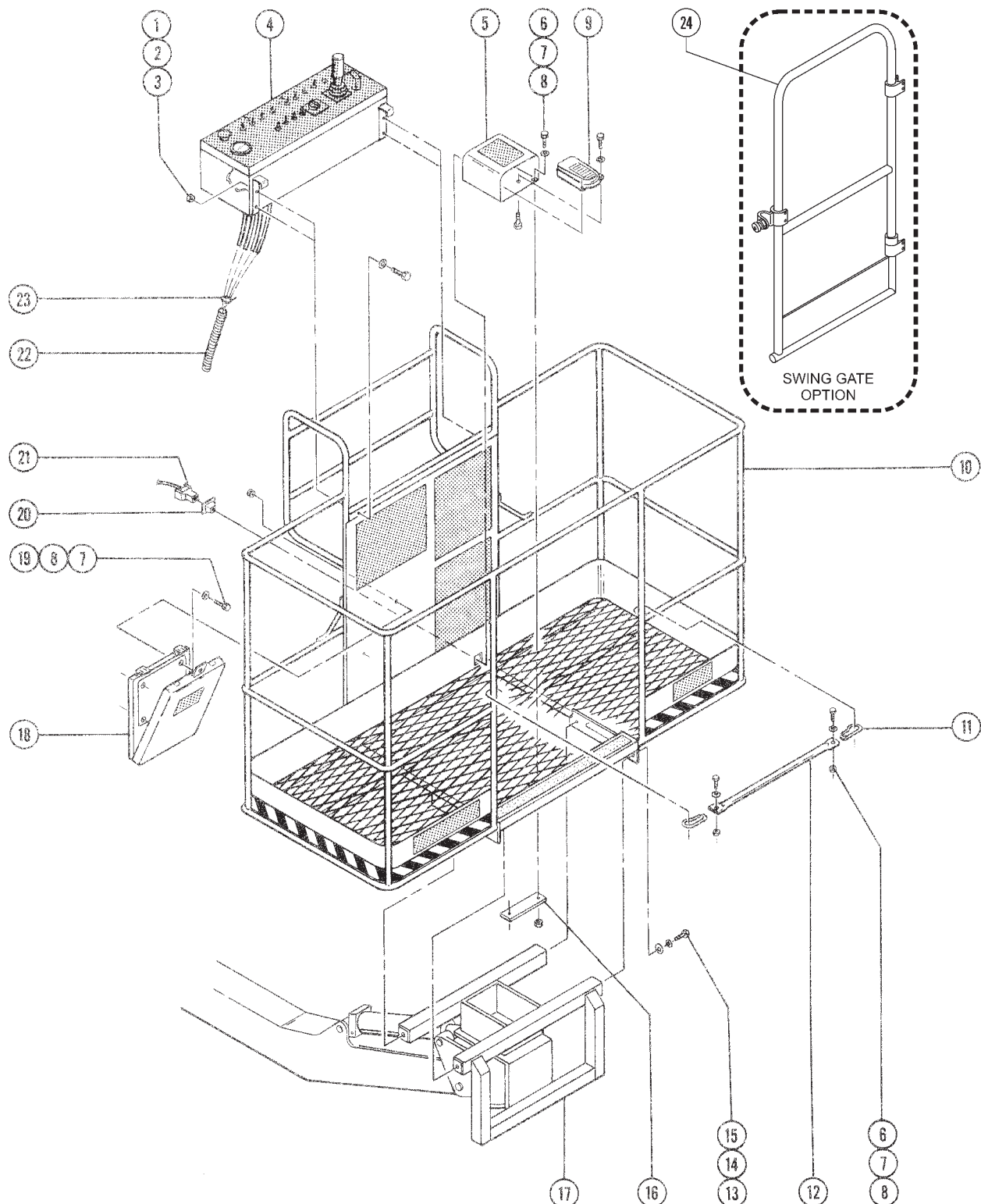


Figure 6-A

Platform

REV B



REV B

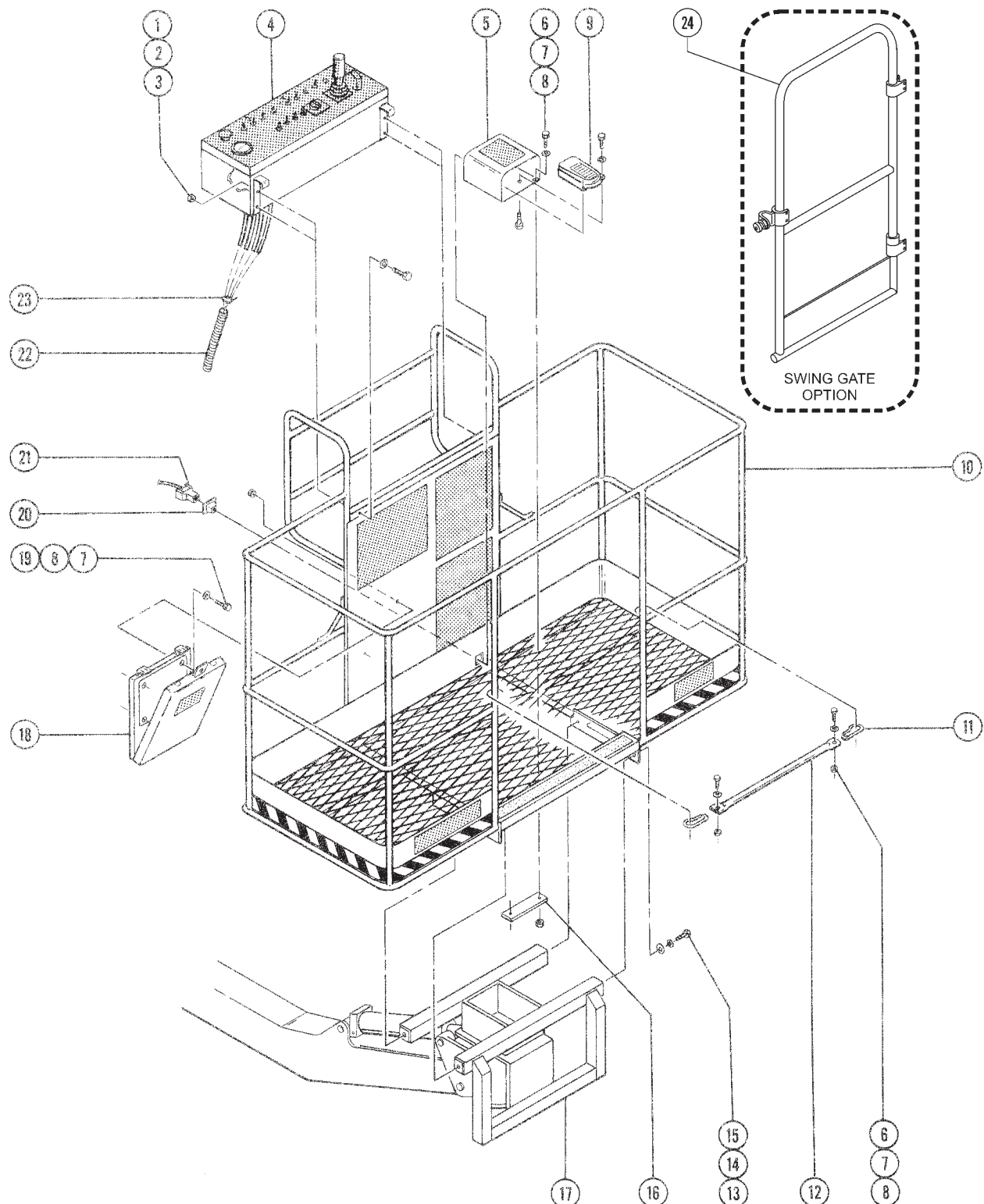
FIGURE 6-A

Index	Part No.	Description	Quantity This Figure
1	7713	Nut - Low Profile, Nylock, $\frac{3}{8}$ -16	1
2	6037	Nut - Hex, $\frac{5}{16}$ -18	8
3	6019	Screw - HHC, $\frac{3}{8}$ -16 x 1.25 inch, GR 5	4
4	Ref.	Platform Controls (refer to figures 6-B and 6-C, pages 6-6 and 6-8)	—
5	27528	Guard - Foot Switch with Decal (decals are shown in section one)	1
6	6888	Screw - HHC, $\frac{1}{4}$ -20 x 1 inch, GR 5	4
7	6638	Washer - Flat, $\frac{1}{4}$ inch	10
8	6091	Nut - Nylock, $\frac{1}{4}$ -20	8
9	13482	Foot Switch (includes mounting fasteners)	1
—	20262	Microswitch - Footswitch	—
10	32027	Platform Assembly, 4 foot (1.2 m) (includes index numbers 6 through 8, 11 and 12)	1
—	32030	Platform Assembly - European, 4 foot (1.2 m) (includes index numbers 6 through 8, 11 and 12)	1
—	16105P	Entry Toeboard - European Platform Assembly	—
—	32028	Platform Assembly, 5 foot (1.5 m) (includes index numbers 6 through 8, 11 and 12)	1
—	32031	Platform Assembly - European, 5 foot (1.5 m) (includes index numbers 6 through 8, 11 and 12)	1
—	16105P	Entry Toeboard - European Platform Assembly	—
—	32029	Platform Assembly, 6 foot (1.8 m) (includes index numbers 6 through 8, 11 and 12)	1
—	32032	Platform Assembly - European, 6 foot (1.8 m) (includes index numbers 6 through 8, 11 and 12)	1
—	16105P	Entry Toeboard - European Platform Assembly	—
11	12443P	Guide - Sliding Mid-rail	2
12	12448P	Sliding Mid-rail Assembly (includes index numbers 6 through 8 and 11)	1
—	12446P	Tube - Sliding Mid-rail	—
—	20973	Wire Loom, $\frac{3}{8}$ inch (9.5 mm)	—
—	21121	Cable Tie - 4 inch (10.2 cm)	—
13	10597	Screw - HHC, $\frac{1}{2}$ -13 x 1.25 inch, GR 5	4
14	6033	Washer - Lock, $\frac{1}{2}$ inch	4
15	6095	Washer - Flat, $\frac{1}{2}$ inch	4

This parts list continues on page 6-5.

FIGURE 6-A

REV B



REV B

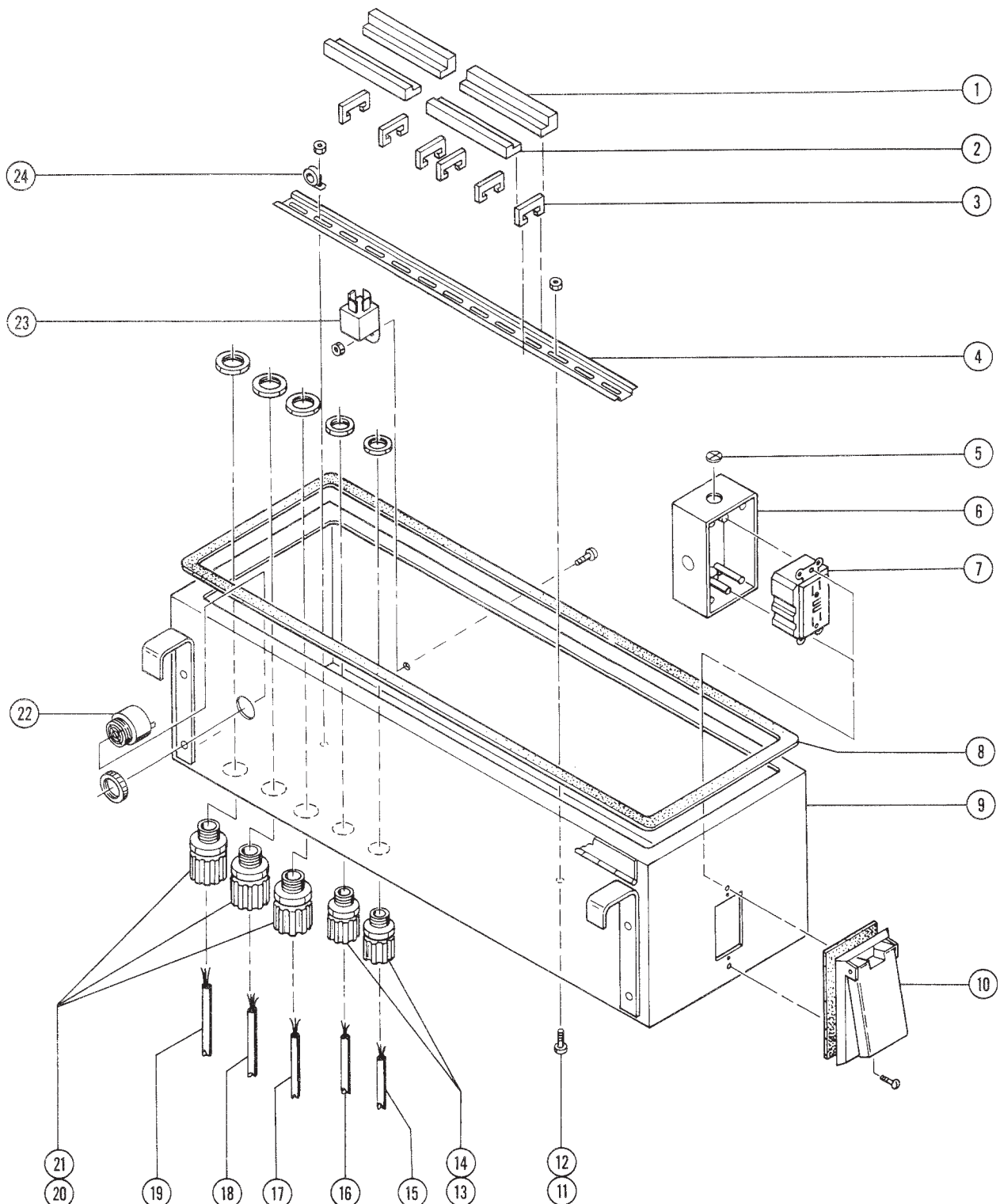
FIGURE 6-A

Index	Part No.	Description	Quantity This Figure
16	13840	Mounting Plate - Foot Switch	1
17	Ref.	Platform Leveling and Rotation (refer to figure 5-F, page 5-12)	—
18	24514	Box - Manual Storage (manuals are listed on page iv)	1
19	6090	Screw - HHC, $\frac{1}{4}$ -20 x 0.75 inch, GR 5	4
20	29431	Connector Assembly - Foot Switch	1
—	45139	Receptacle - 4 Pole Snap-in, Anderson	—
—	22431	Contact - 30A, Anderson	—
—	22432	Housing - Black, 30A, Anderson	—
—	22433	Housing - White, 30A, Anderson	—
—	22434	Housing - Red, 30A, Anderson	—
—	45200	Spacer - Short, Anderson	—
—	45202	Roll Pin, 0.094 x 0.875 inch	—
21	32026	Foot Switch Wire Assembly with Connector	1
—	45313	Plug with Latch - 4 Pole Snap-in, Anderson	—
—	22431	Contact - 30A, Anderson	—
—	22432	Housing - Black, 30A, Anderson	—
—	22433	Housing - White, 30A, Anderson	—
—	22435	Housing - Green, 30A, Anderson	—
—	45201	Spacer - Long, Anderson	—
—	45202	Roll Pin, 0.094 x 0.875 inch	—
22	45540	Protective Coil Sleeve	105 inches (267 cm)
23	6653	Clamp - Rubber Cushioned	4
24	119950	Kit, Swing Gate	—
—	119290	Weldment - Swing Gate	—
—	1488	Railing Catch	—
—	7265	Rivet - Steel, 0.375 x 0.25 inch	—
—	43392	Rubber Bumper	—
—	33674	Snap Pin	—
—	1487	Gate Catch	—
—	55753	Nylon Plug	—
—	82504	Installation Instructions, Swing Gate	—

Figure 6-B

REV B

Platform Controls - View 1



REV B

FIGURE 6-B

Index	Part No.	Description	Quantity This Figure
1	25835	Quick Disconnect - Female	2
2	25834	Quick Disconnect - Male	2
3	25838	Mounting Adaptor	6
4	25839	Mounting Rail	1
5	8843	Cover - Knock Out	1
6	10775	T-Box	1
7	13585	Receptacle - GFCI, 110V	1
—	19975	Receptacle - British, 110V	1
—	119404	Receptacle - North American, 120V	1
8	27115	Gasket - Platform Control Box	1
9	32033	Control Box with Lid and Decal (includes index number 8)	1
10	45437	Cover - GFCI, Weatherproof (includes mounting fasteners)	1
11	6066	Screw - RHM, 10-32 x 0.375 inch	2
12	6178	Nut - Nylock, 10-32	2
13	7056	Squeeze Connector	2
14	6935	Locknut - Electric, 0.5 inch	2
15	6993	Electrical Cord, 14 Gauge (2.08 mm ²), 3 Conductor SJO	720 inches (1829 cm)
16	32026	Footswitch Wire Assembly with Connector	1
17	1635	Electrical Cord, 18 Gauge (0.821 mm ²), 19 Conductor	798 inches (2027 cm)
18	1635	Electrical Cord, 18 Gauge (0.821 mm ²), 19 Conductor	798 inches (2027 cm)
19	1635	Electrical Cord, 18 Gauge (0.821 mm ²), 19 Conductor	798 inches (2027 cm)
20	12960	Squeeze Connector	3
21	14041	Locknut - Electric, 0.75 inch	3
22	19270	Alarm - Warble Tone, 12V DC	1
23	19274	Relay - SPDT, 12V DC (Bi-fuel and Tri-fuel models only)	1
24	13268	Clamp - Rubber Cushioned, 3/4 inch	1

Figure 6-C

Platform Controls - View 2

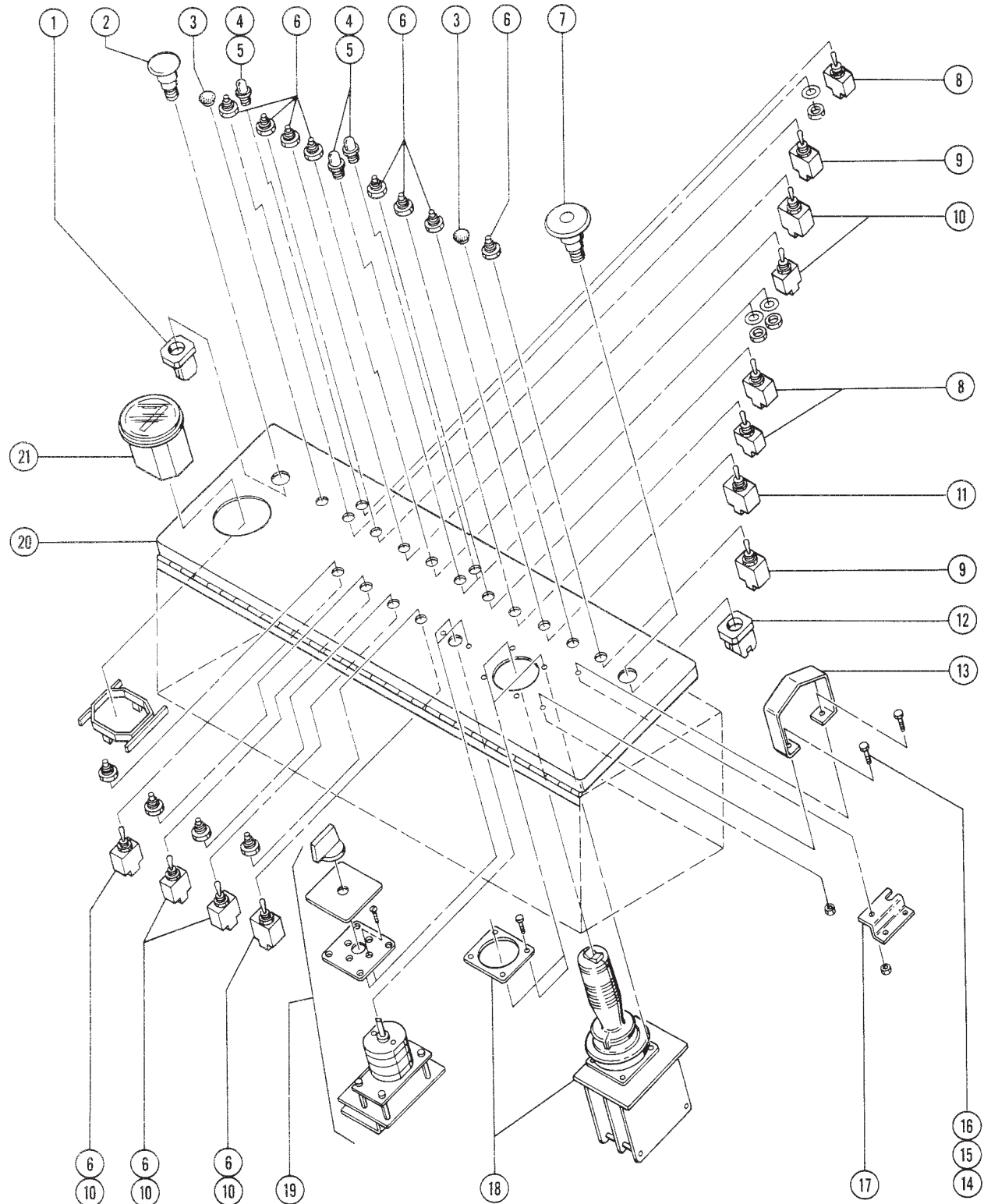


FIGURE 6-C

Index	Part No.	Description	Quantity This Figure
1	45082	Base - Push Button (includes 1 each N.O. Contact)	1
—	45081	Contact - N.O.	—
2	45080	Push Button - Black Mushroom Head	1
3	45384	Plug - Black Plastic, 0.50 inch (1.27 cm) Diameter	2*
4	22776	Socket & Lens Assembly - Red Indicator Light	3*
5	22777	Lamp - 14V	3*
6	27246	Boot - Rubber	12*
7	45078	Push Button - Red Mushroom Head	1
8	13037	Toggle Switch - SPDT, 3 Position, Momentary (includes mounting fasteners)	3*
9	27378	Toggle Switch - DPDT, 2 Position, Maintained (includes mounting fasteners)	2*
10	16397	Toggle Switch - DPDT, 3 Position, Momentary (includes mounting fasteners)	6
11	13038	Toggle Switch - DPDT, 3 Position, Maintained (includes mounting fasteners)	1*
12	45085	Base - Push Button (includes 2 each N.C. Contacts)	1
—	29732	Contact - N.C.	—
13	27033P	Wrist Support	1
14	8914	Screw - HHC, 1/4 -20 x 0.625 inch, GR 5	2
15	6638	Washer - Flat, 1/4 inch	2
16	6091	Nut - Nylock, 1/4 -20	2
17	21191	Bracket - Panel Wire Mount	1
18	29642	Controller - Joystick, Drive / Steer, 12V (refer to figure 6-D, page 6-10)	1
19	29643	Controller - Rotational, Boom Function Speed (refer to figure 6-E, page 6-12)	1
20	32033	Control Box with Lid and Decal (includes gasket)	1
21	13686	Gauge - Battery Level (optional)	1

* Quantity listed may not reflect specific model configuration requirements.

Figure 6-D

Joystick Controller - Drive / Steer

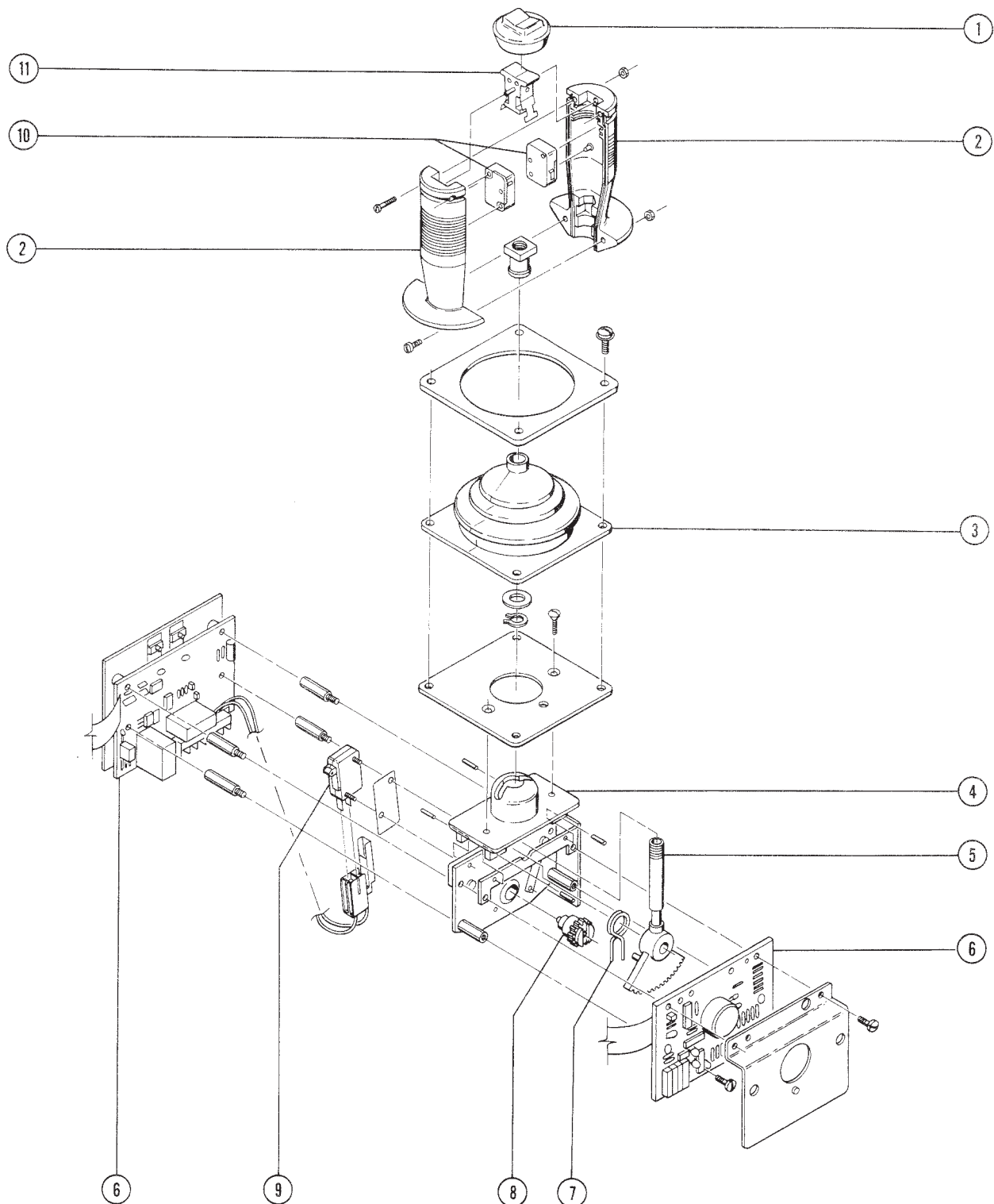


FIGURE 6-D

Index	Part No.	Description	Quantity This Figure
—	29642	Joystick Controller, Complete	—
1	19710	Boot - Rubber	1
2	19723	Handle Half	2
3	19715	Boot - Rubber	1
4	19720	Casting - Base	1
5	19719	Shaft and Gear Assembly	1
6	32093	Printed Circuit Board Assembly, 2 Piece	1
7	21434	Spring - Return	1
8	19731	Gear - Slave	1
9	19712	Microswitch (V3L-139-D8)	1
10	19722	Microswitch (V319M)	2
11	19724	Rocker Assembly	1

Figure 6-E

Rotational Controller - Boom Function Speed

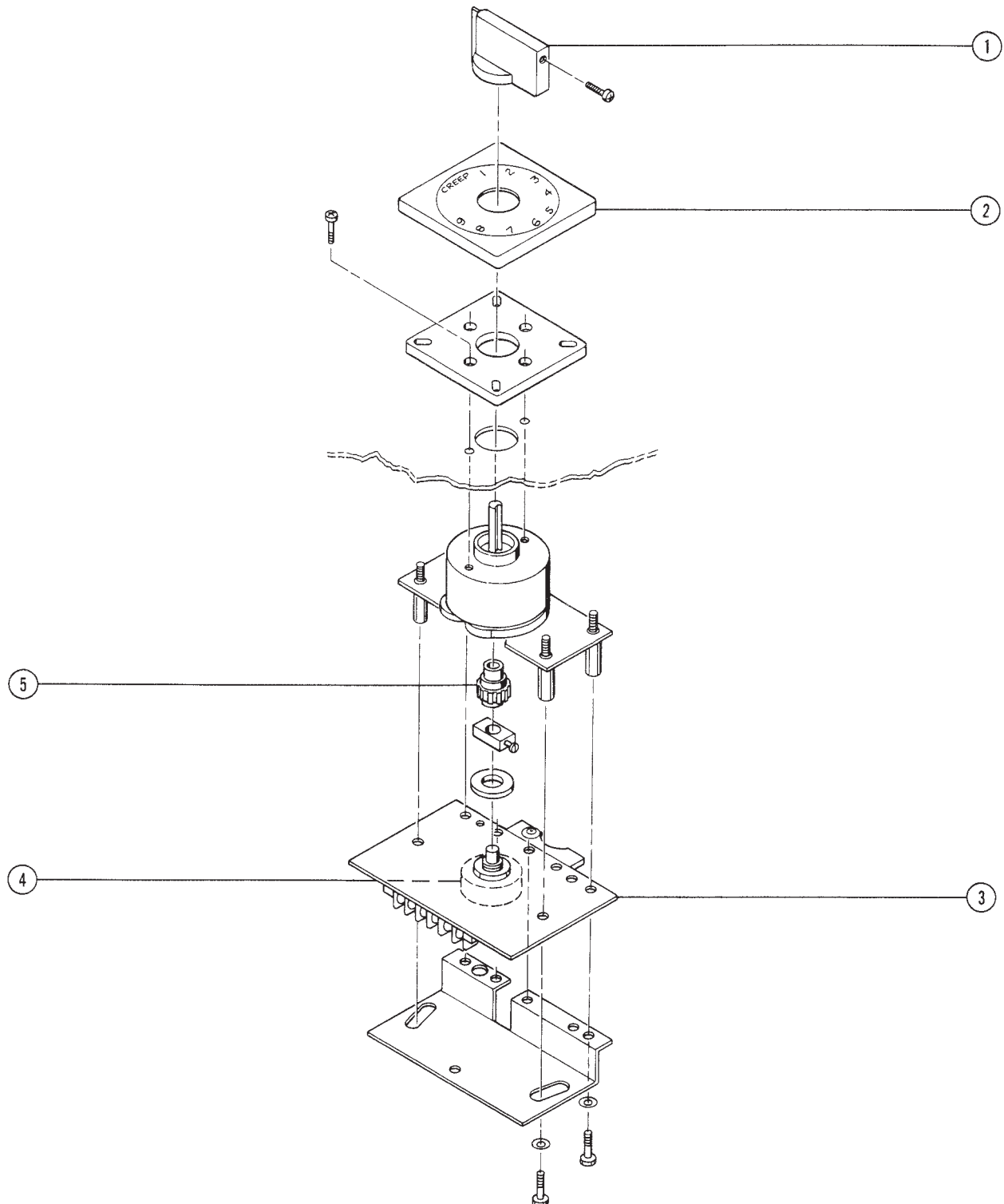


FIGURE 6-E

Index	Part No.	Description	Quantity This Figure
—	29643	Rotational Controller, Complete	—
1	19726	Control Knob	1
2	19725	Legend Plate	1
3	32094	Printed Circuit Board Assembly (includes index number 4)	1
4	32095	Potentiometer	1
5	19731	Gear - Slave	1

Notes

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10597	2-15	28	13755	5-19	22	18687	4-31	23
10597	2-7	13	13756	5-17	20	18687	4-37	37
10597	3-21	23	13775	2-7	12	18687	4-41	19
10597	3-3	19	13775	3-3	23	18687	5-19	24
10597	3-33	3	13775	3-9	35	18895	3-11	6
10597	3-9	31	13775	5-13	9	18920	2-11	20
10597	5-13	11	13799	2-19	25	18921	2-11	21
10597	5-5	2	13799	4-33	31	19136	4-31	18
10597	6-3	13	13799	4-37	45	19136	4-37	35
10775	6-7	6	13799	4-43	31	19136	4-41	23
119403	5-5	17	13799	5-17	3	19141	4-35	21
119404	6-7	7	13840	6-5	16	19141	4-41	13
12153	5-5	17	13852	5-13	2	19145	4-11	17
12340	5-17	4	13852	5-13	20	19149	3-11	5
12443P	6-3	11	13918	3-3	18	19151	3-11	3
12446P	6-3	12	13918	3-7	24	19187	4-11	5
12448P	6-3	12	13918	4-27	13	19270	6-7	22
1259	5-13	14	13921	2-19	37	19273	3-17	18
1266	1-3	—	13921	5-17	1	19274	4-25	4
1266	1-7	—	14041	4-21	9	19274	6-7	23
1268	1-3	—	14041	6-7	21	19331	3-3	22
1268	1-7	—	1483	1-3	—	19331	3-9	34
12906	5-7	3	1483	1-7	—	19363	4-7	2
12960	4-21	8	1484	1-3	—	19363	4-7	8
12960	6-7	20	1484	1-7	—	19440	2-3	23
13000	3-19	27	16105P	6-3	10	19487	4-7	3
13000	3-3	3	16105P	6-3	10	19491	2-13	13
13000	3-31	7	16105P	6-3	10	19491	5-5	12
13000	3-7	1	1635	4-21	11	19506	4-25	12
13002	4-11	23	1635	4-21	12	19520	2-7	2
13002	4-29	17	1635	4-21	13	19528	2-9	1
13006	2-7	6	1635	6-7	17	19529	2-9	3
13008-1	2-9	5	1635	6-7	18	19530	2-9	4
13008-3	2-9	2	1635	6-7	19	19531	2-9	5
13037	4-25	16	16397	4-25	19	19532	2-9	5
13037	6-9	8	16397	6-9	10	19533	2-9	5
13038	6-9	11	16439	4-11	15	19700	5-13	2
13064	2-15	23	1699	1-5	23	19710	6-11	1
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13066	2-15	32	1699	1-5	23	19715	6-11	3
13066	3-3	21	1699	1-9	27	19719	6-11	5
13066	3-9	33	1699	1-9	27	19720	6-11	4
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13105	2-5	13	18218	4-7	8	19724	6-11	11
13119	2-17	2	18238	5-13	21	19725	6-13	2
13120	2-17	1	18238	5-9	13	19725	6-13	2
13268	5-11	2	18471	5-3	22	19726	6-13	1
13268	6-7	24	18504	2-7	3	19726	6-13	1
13471	4-25	6	18504	3-7	18	19731	6-11	8
13480	4-25	7	18506	3-15	23	19731	6-13	5
13482	6-3	9	18506	3-21	26	19731	6-13	5
13579	2-7	9	18506	3-3	2	19765	3-7	14
13585	6-7	7	18506	3-35	29	19815P	3-5	29
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25375	4-19	—	27360	3-17	26	28041	2-17	7
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25676	5-7	19	27378	6-9	9	28146	5-17	17
25677	5-3	10	27421	4-31	17	28147	5-17	16
25678	5-7	1	27421	4-37	34	28155	3-21	8
25679	5-9	1	27421	4-41	16	28155	3-33	7
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25807	4-21	19	27528	6-3	5	28156	3-33	8
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25816	5-13	19	27535	2-11	12	28157	1-7	16
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25969	2-13	9	27678	5-13	22	28164	1-7	14
25969	2-5	5	27678	5-9	14	28165	1-9	25
25974	4-21	17	27680	5-13	13	28170	1-9	44
25980	1-3	9	27681	5-13	20	28171	1-7	15
25980	1-9	17	27684	2-3	16	28173	1-3	16
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27032	5-3	14	27686	2-3	19	28174	1-5	28
27033P	6-9	13	27699	5-11	11	28174	1-9	31
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27039	4-21	1	27806	4-19	3	28175	1-7	6
27047	4-17	15	27809	4-15	8	28176	1-5	25
27047	4-19	2	27811	4-17	17	28176	1-9	29
27047	5-15	26	27811	4-19	4	28177	1-5	42
27115	6-7	8	27812	4-17	18	28179	1-3	7
27126	4-29	5	27812	4-19	14	28179	1-7	7
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28452	2-19	26	29793	1-11	33	30084	1-9	43
28456	2-17	21	29793	1-5	31	30128	4-7	21
28460	4-31	19	29794	1-11	34	30346	4-7	14
28460	4-37	39	29794	1-11	34	30360	4-31	25
28460	4-41	24	29794	1-5	33	30360	4-37	29
28469	5-5	7	29796	1-3	14	30360	4-41	21
28470	5-5	19	29796	1-9	20	30392	4-31	24
28597	2-17	19	29798	1-3	20	30392	4-37	30
28689	4-21	15	29798	1-9	24	30392	4-41	20
28829	4-7	10	29799	1-3	19	30444	2-3	6
28963	3-21	22	29799	1-9	23	30490	4-7	5
28976	3-31	9	29800	1-3	10	30490	4-7	5
29028	4-17	1	29800	1-9	22	31029	4-9	25
29029	4-17	14	29801	1-3	13	31040P	3-23	27
29057	2-3	10	29801	1-9	19	31040P	3-33	1
29082	5-13	2	29803	1-3	17	31046	4-27	11
29083	5-13	2	29807P	4-13	27	31049	3-19	32
29137	4-7	7	29808P	4-13	26	31049	3-31	17
29137	4-7	9	29810	3-5	28	31051P	3-3	24
29183	5-9	4	29810	3-9	39	31051P	3-7	19
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California Proposition 65

WARNING

The exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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