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ACE

CE

1128

PARTS CATALOGUE

12XW

14XW

Articulated Hydraulic Mobile Crane

EFFECTIVE CRANE S.NO. ACE 166250

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Part No. ABPC1214XW00 Issue Month 02/07
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GENERAL INFORMATION

Machine Identification

Each **ACE** *Machine is identified with a serial number. Further Chassis & Engine also have serial numbers.*

Ordering Parts

When ordering parts, the order should specify the part description, Part Number, Quantity and Serial number of Machine. Quality **ACE** *parts are available from our dealers through out India.*

How to use this parts catalogue.

This Parts Catalogue includes illustrations of assemblies which make up the machine.

Index provided in beginning of parts catalogue should be used to determine the page number on which specific systems are illustrated. Quantity of parts for each model is mentioned in separate coloumn's which indicate the total number of that item used in that particular assembly and total number used in machine.

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ACE

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FIGURE NO. 1

CYLINDER BLOCK ASSY.

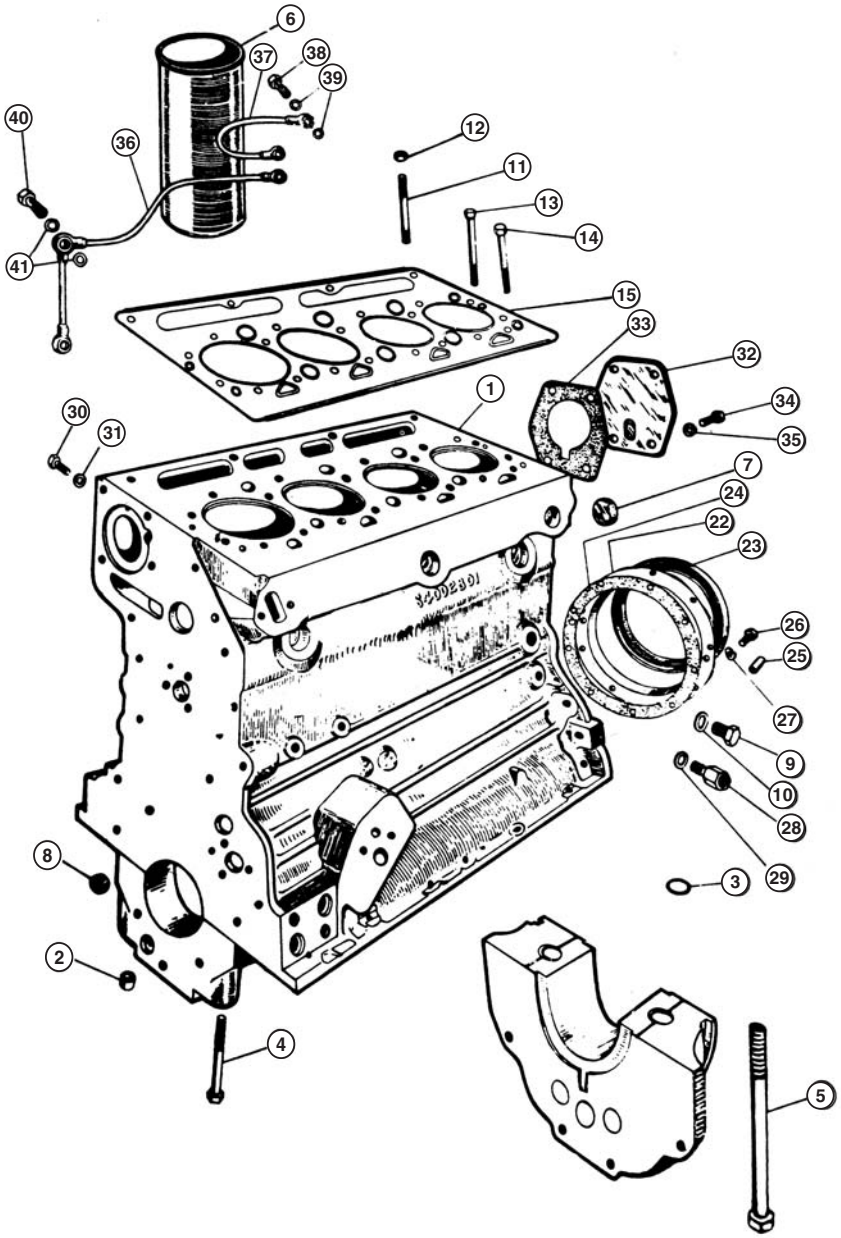

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FIGURE NO. 1

CYLINDER BLOCK ASSY.

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	CYLINDER BLOCK (ASSEMBLY) (Including Item 2 to 8)	ABCBA 0100	1	1
	Cap. Crankshaft Main Bearing-Front } not serviced separately	—	1	1
	Cap. Cranshaft Main Bearing-Inter } not serviced separately	—	2	2
	Cap. Crankshaft Main Bearing-Middle } not serviced separately	—	1	1
	Cap. Crankshaft Main Bearing-Rear } not serviced separately	—	1	1
2.	Thimble, Crankshaft main Bearing cap to Block	ABCBA 0200	10	10
3.	"O" Ring Thimble to Block Searing Rear Cap.	ABCBA 0300	2	2
4.	Setscrew Bearing Cap. to Cyl. Block	ABCBA 0400	8	8
5.	Setscrew Bearing Cap. to Cyl. Block Rear	ABCBA 0500	2	2
6.	Liner Cyl. Block	ABCBA 0600	4	4
7.	Plug Cly. Block Water Jacket	ABCBA 0700	10	10
8.	Plug Cly. Block Pressure Rail	ABCBA 0800	2	2
9.	Plug Cly. Block Drain	ABCBA 0900	1	1
10.	Washer Cly. Block Drain	ABCBA 1000	1	1
11.	Study Cly Block to Cly. Head	ABCBA 1100	13	13
12.	Nut Cly. Head Retg. Stud	ABCBA 1200	13	13
13.	Setscrew Cly. Head Retg. (Long)	ABCBA 1300	2	2
14.	Setscrew Cly. Head Retg. (Short)	ABCBA 1400	8	8
15.	Gasket Cly. Head	ABCBA 1500	1	1
22.	Husing Rear End Oil Seal	ABCBA 2200	1	1
23.	Seal Crank Shaft Rear End.	ABCBA 2300	1	1
24.	Joint Cly. Block to Oil Seal Housing	ABCBA 2400	1	1
25.	Dowel Cyl. Block to Oil Seal Housing	ABCBA 2500	2	2
26.	Setscrew Oil seal Housing to cyl. Block	ABCBA 2600	9	9
27.	Washer Spring Oil Seal Housing Retg. Setscrew	ABCBA 2700	9	9
28.	Union Lub. Oil Pressure Gauge	ABCBA 2800	1	1
29.	Washer Lub Oil Pressure Gauge Union	ABCBA 2900	1	1
30.	Banjo Cam Chamber RH Side	ABCBA 3000	1	1
31.	Washer Cam Chamber RH Side Plain	ABCBA 3100	1	1
32.	Plate Cam Chamber Rear End	ABCBA 3200	1	1
33.	Joint Cam Chamber Rear End Blanking Plat	ABCBA 3300	1	1
34.	Setscrew Cam Chamber rear end blanking plate	ABCBA 3400	4	4
35.	Washer Spring Chamber Rear end Blanking Plate Retg. Setscrew	ABCBA 3500	4	4
36.	Pipe Assy. Idler Gear and Camshaft Oil Feed	ABCBA 3600	1	1
37.	Pipe Assy. Cam Chamber to Cyl. Head	ABCBA 3700	1	1
38.	Bolt Banjo	ABCBA 3800	3	3
39.	Washer Banjo Bolt	ABCBA 3900	6	6
40.	Bolt Banjo	ABCBA 4000	2	2
41.	Washer Banjo Bolt	ABCBA 4100	4	4
42.	Joint Gasket Set Cyl. Block Kit	ABCBA 4200	1	1

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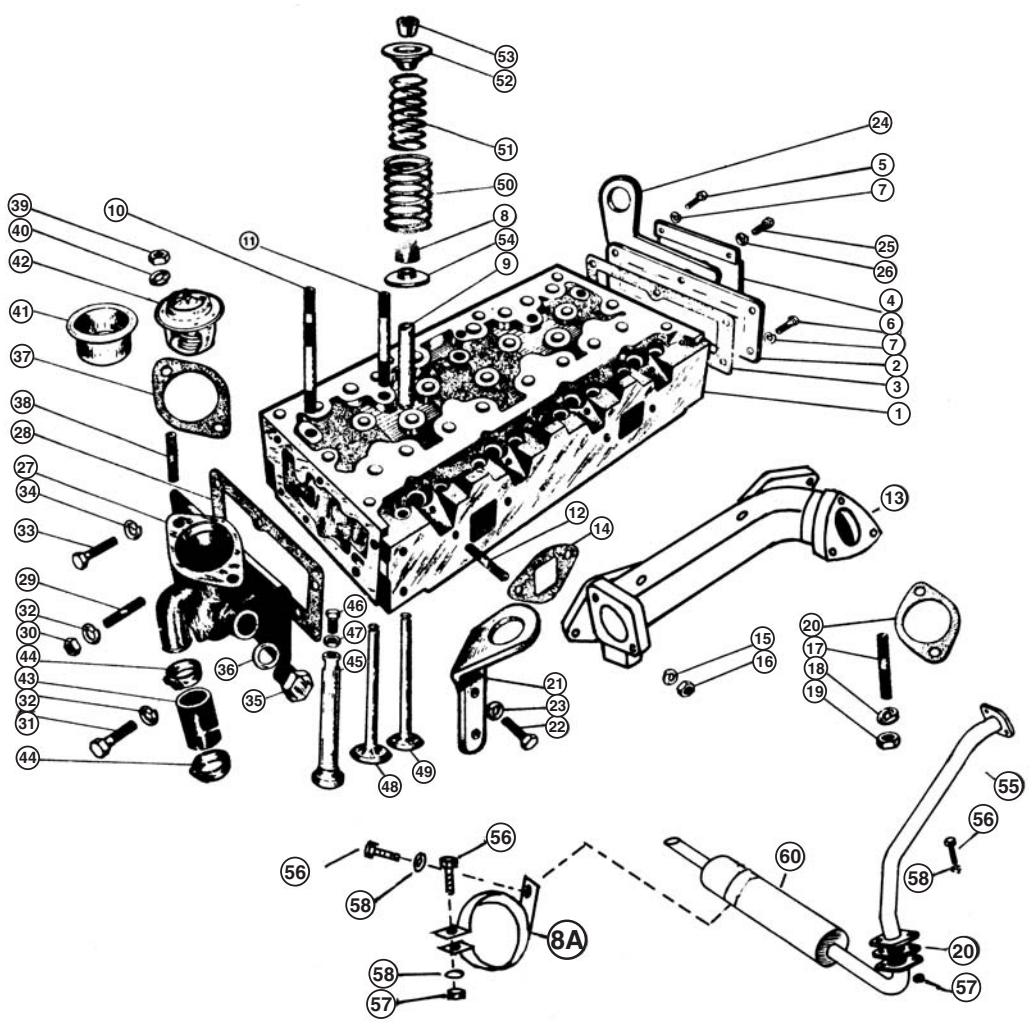
FIGURE NO. 2

CYLINDER HEAD ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Cylinder Head Assembly (Minor) (Including Item No. 2 to 12)	ABCHA 0100	1	1
2.	Plate, Cylinder Head Rear and Cover	ABCHA 0200	1	1
3.	Joint Cylinder Head Rear end Cover Plate	ABCHA 0300	1	1
4.	Bracket, Engine Lifting Plate Rear	ABCHA 0400	1	1
5.	Setscrew, Rear End Cover Plate Long	ABCHA 0500	4	4
6.	Setscrew, Rear End Cover Plate Short	ABCHA 0600	2	2
7.	Washer, Spring Rear End Cover Plate	ABCHA 0700	6	6
8.	Seal, Valve Inlet	ABCHA 0800	4	4
8A.	Cylinder Clamp	AFCHA 6100	1	1

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FIGURE NO. 2

CYLINDER HEAD ASSY.

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
9.	Guid, Valve Inlet and Exhaust	ABCHA 0900	8	8
10.	Stud, Rocker Shaft Retg. Long	ABCHA 1000	3	3
11.	Stud, Rocker Shaft Retg. Short	ABCHA 1100	2	2
12.	Stud, Cyl. Head to Exhaust Manifold	ABCHA 1200	4	4
13.	Manifold Exhaust	ABCHA 1300	1	1
14.	Joint, Exhaust Manifold	ABCHA 1400	2	2
15.	Washer, Spring Exhaust Manifold	ABCHA 1500	4	4
16.	Nut, Exhaust Manifold Retg.	ABCHA 1600	4	4
17.	Stud, Exhaust Manifold Outlet Flange	ABCHA 1700	2	2
18.	Washer, Spring Exhaust manifold Outlet Flange	ABCHA 1800	2	2
19.	Nut, Exhaust Manifold Outlet Flange	ABCHA 1900	2	2
20.	Joint, Exhaust Manifold Flange	ABCHA 2000	2	2
21.	Plate Engine Front Lifting	ABCHA 2100	1	1
22.	Setscrew, Engine Front Lifting Plate	ABCHA 2200	2	2
23.	Washer, Spring Engine front Lifting	ABCHA 2300	2	2
24.	Plate engine Lifting Rear	ABCHA 2400	1	1
25.	Setscrew Engine Rear Lifting Plate	ABCHA 2500	1	1
26.	Washer Spring Rear Lifting Plate	ABCHA 2600	1	1
27.	Body Water Outlet	ABCHA 2700	1	1
28.	Joint Water Outlet Body	ABCHA 2800	1	1
29.	Stud Cyl. Head to Water Outlet body	ABCHA 2900	1	1
30.	Nut Water Outlet body retg. stud	ABCHA 3000	1	1
31.	Setscrew Body Water outlet	ABCHA 3100	2	2
32.	Washer Spring Body Water Outlet	ABCHA 3200	2	2
33.	Setscrew Body Water Outlet	ABCHA 3300	3	3
34.	Washer Spring Body Water Outlet	ABCHA 3400	4	4
35.	Plug Water outlet Body	ABCHA 3500	1	1
36.	Washer Water outlet Body	ABCHA 3600	1	1
37.	Joint Water outlet body to outlet connection	ABCHA 3700	1	1
38.	Stud Water outlet connection	ABCHA 3800	2	2
39.	Nut Water outlet connection	ABCHA 3900	2	2
40.	Washer Spring outlet connection	ABCHA 4000	2	2
41.	Tube Bypass Blanking (Not required if thermostat is used)	ABCHA 4100	1	1
42.	Thermostat	ABCHA 4200	1	1
43.	Hose Bypass Connection	ABCHA 4300	1	1
44.	Clip Bypass Connection Hose	ABCHA 4400	2	2
45.	Tappet	ABCHA 4500	8	8
46.	Screw Tappet Adjusting	ABCHA 4600	8	8
47.	Nut Tapped Adjusting	ABCHA 4700	8	8
48.	Valve Inlet	ABCHA 4800	4	4
49.	Valve Exhaust	ABCHA 4900	4	4
50.	Spring Inlet & exhaust outer	ABCHA 5000	8	8
51.	Spring Inlet & exhaust Inner	ABCHA 5100	8	8
52.	Cap Valve Spring	ABCHA 5200	8	8
53.	Cutter	ABCHA 5300	16	16
54.	Washer inlet & exhaust valve spring locating	ABCHA 5400	8	8
55.	Silencer Pipe	ABCHA 5500	1	1
56.	Bolt	ABCHA 5600	3	3
57.	Nut	ABCHA 5700	2	2
58.	Washer	ABCHA 5800	3	3
60.	Silencer	ABCHA 6009	1	1
62.	Major Gasket Kit S4	ABMGK 001	-	-
63.	Engine Over Hauling Kit	ABEOMK 000	-	-

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FIGURE NO. 3

CRANKSHAFT ASSY.

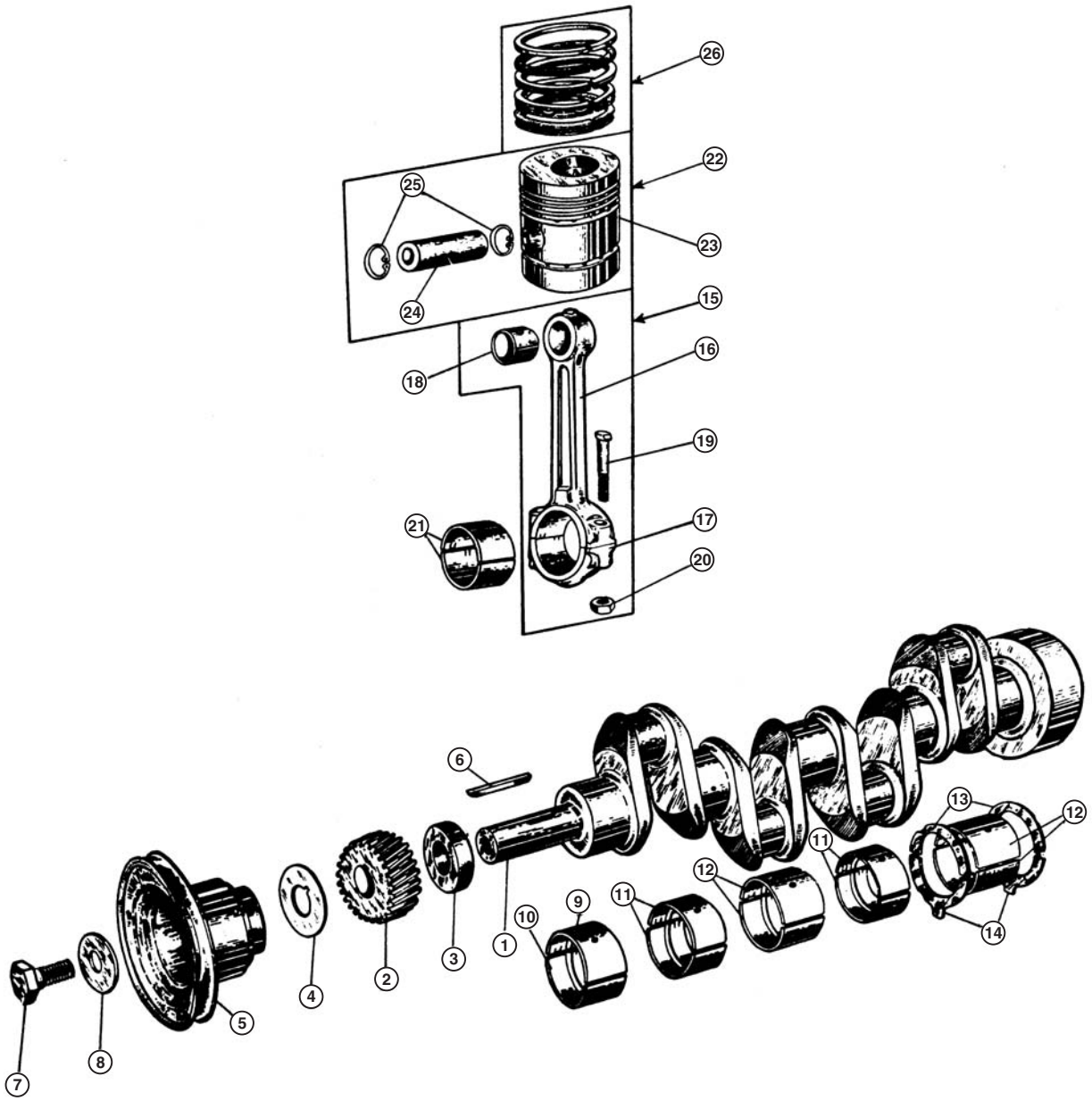

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FIGURE NO. 3

CRANKSHAFT ASSY.

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Crankshaft	ABCA 0100	1	1
2.	Gear Crankshaft	ABCA 0200	1	1
3.	Distance piece crankshaft Gear	ABCA 0300	1	1
4.	Spacer crankshaft oil thrower	ABCA 0400	1	1
5.	Pulley Crankshaft	ABCA 0500	1	1
6.	Key crankshaft	ABCA 0600	1	1
7.	Setscrew crankshaft pulley	ABCA 0700	1	1
8.	Washer Crankshaft pulley	ABCA 0800	1	1
	Bearing Crankshaft Main Complete Set Std. size items No. 9 to 12	ABCA 0000A	1	1
9.	Main Bearing Front Top ★	ABCA 0900	1	1
10.	Main Bearing Front Bottom	ABCA 1000	1	1
11.	Main Bearing Inter : Top & Bottom	ABCA 1100	4	4
12.	Main Bearing Middle Rear Top & Bottom	ABCA 1200	4	4
	Bearing Crankshaft Main Complete Set	ABCA 0000A	1	1
	.010 Undersize	ABCA 0000B	1	1
	.020 Undersize	ABCA 0000C	1	1
	.030 Undersize	ABCA 0000D	1	1
13.	Washer Main Bearing thrust Top	ABCA 1300	2	2
	Washer Main Bearing thrust .007" oversize	ABCA 1300A	2	2
14.	Washer Main Bearing thrust Bottom	ABCA 1400	2	2
	Washer Main Bearing thrust Bottom .007" oversize	ABCA 1400A	2	2
15.	Connecting Rod assembly less Bearing comprising Items No. 16 to 20	ABCA 1500	4	4
16.	Connecting Rod ★	ABCA 1600	4	4
17.	Cap Connecting Rod ★	ABCA 1700		
18.	Bush Connecting Rod Small end	ABCA 1800	4	4
19.	Bolt Connecting Rod Cap	ABCA 1900	8	8
20.	Nut-Connecting Rod to cap Bolt	ABCA 2000	8	8
21.	Bearing Connecting Rod Big end	ABCA 2100	8	8
	.010 Undersize	ABCA 2100A	8	8
	.020 Undersize	ABCA 2100B	8	8
	.030 Undersize	ABCA 2100C	8	8
22.	Piston assy. with gudgeon pin and circlip less rings items Nos. 23 to 25	ABCA 2200	4	4
23.	Piston	ABCA 2300	4	4
24.	Pin Gudgeon	ABCA 2400	4	4
25.	Circlip Gudgeon pin retaining	ABCA 2500	8	8
26.	Piston rings assy.	ABCA 2600	4	4

★ Not Serviced Separately

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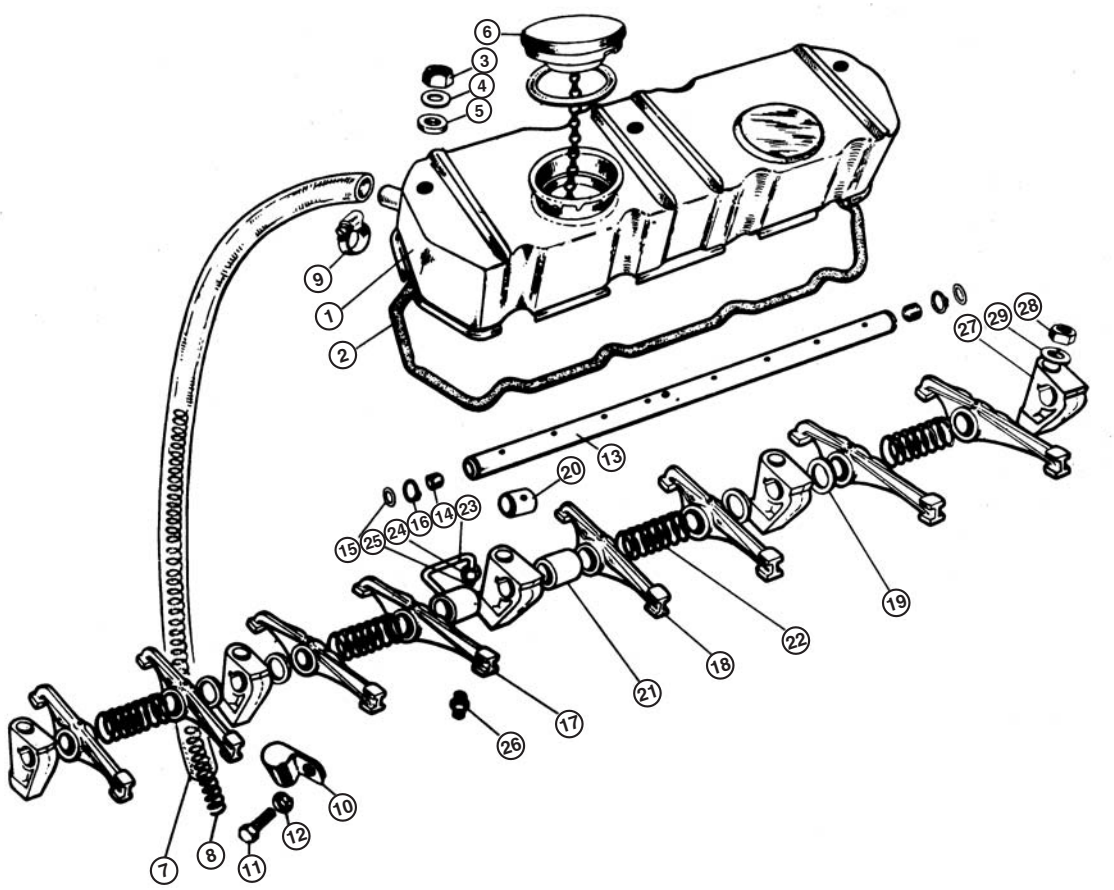
FIGURE NO. 4

CYLINDER HEAD COVER



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Cover cylinder head	ABCHC 0100	1	1
2.	Joint cylinder head cover	ABCHC 0200	1	1
3.	Nut cylinder head cover Retaining	ABCHC 0300	3	3
4.	Washer cylinder head cover Retaining	ABCHC 0400	3	3
5.	Washer plain cylinder head	ABCHC 0500	3	3
6.	Cap oil filter	ABCHC 0600	1	1
7.	Pipe Breather extension	ABCHC 0700	1	1
8.	Coil Breather extension indert	ABCHC 0800	1	1
9.	Clip Breather pipe	ABCHC 0900	1	1
10.	Clip Breather pipe support	ABCHC 1000	2	2
11.	Set screw Breather pipe support clip	ABCHC 1100	2	2
12.	Washer spring Breather pipe support clip Rocker shaft assembly comprising items No. 13 to 29	ABCHC 1200 ABCHC 0000	2 1	2 1
13.	Shaft Rocker	ABCHC 1300	1	1
14.	Plug Rocker shaft end	ABCHC 1400	2	2

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
15.	Shim Rocker Shaft	ABCHC 1500	A/R	A/R
16.	Circlip Rocker shaft	ABCHC 1600	2	2
17.	Lever Rocker R.H.	ABCHC 1700	4	4
18.	Lever Rocker L.H.	ABCHC 1800	4	4
19.	Distance piece Rocker lever (Short)	ABCHC 1900	4	4
20.	Bush Rocker Lever	ABCHC 2000	8	8
21.	Distance piece Rocker lever (Long)	ABCHC 2100	1	1
22.	Spring Rocker Shaft	ABCHC 2200	4	4
23.	Pipe-Rocker shaft oil feed	ABCHC 2300	1	1
24.	Nut Rocker shaft oil feed	ABCHC 2400	1	1
25.	Nipple rocker shaft oil feed	ABCHC 2500	1	1
26.	Union Rocker shaft oil feed pipe	ABCHC 2600	1	1
27.	Bracket Rocker shaft	ABCHC 2700	5	5
28.	Nut Rocker shaft bracket	ABCHC 2800	5	5
29.	Washer Rocker shaft bracket Retaining	ABCHC 2900	5	5

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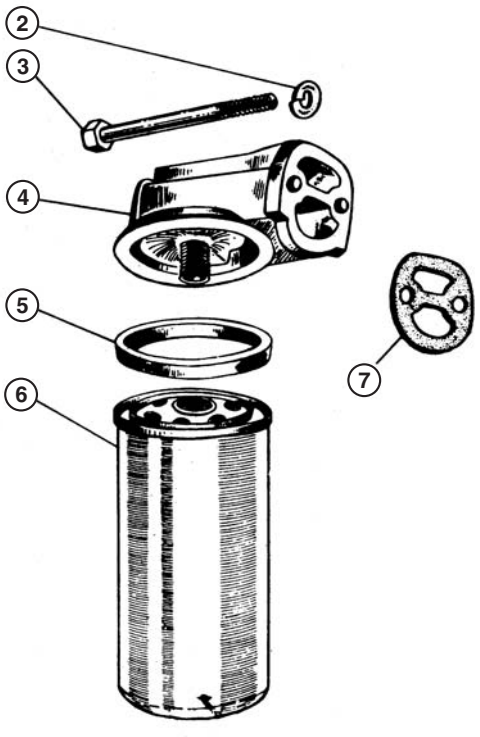
FIGURE NO. 5

LUB. OIL FILTER



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Lub. Oil Filter Assy.	ABLOF 0100	1	1
2.	Washer Spring Lub. Oil Filter Head Retg. Setscrew	ABLOF 0200	2	2
3.	Setscrew Lub. Oil Filter	ABLOF 0300	2	2
4.	Head Lub Oil Filter	ABLOF 0400	1	1
5.	'O' Ring	ABLOF 0500	1	1
6.	Filter	ABLOF 0600	1	1
7.	Joint Cylinder Block to Lub. Oil Filter	ABLOF 0700	1	1

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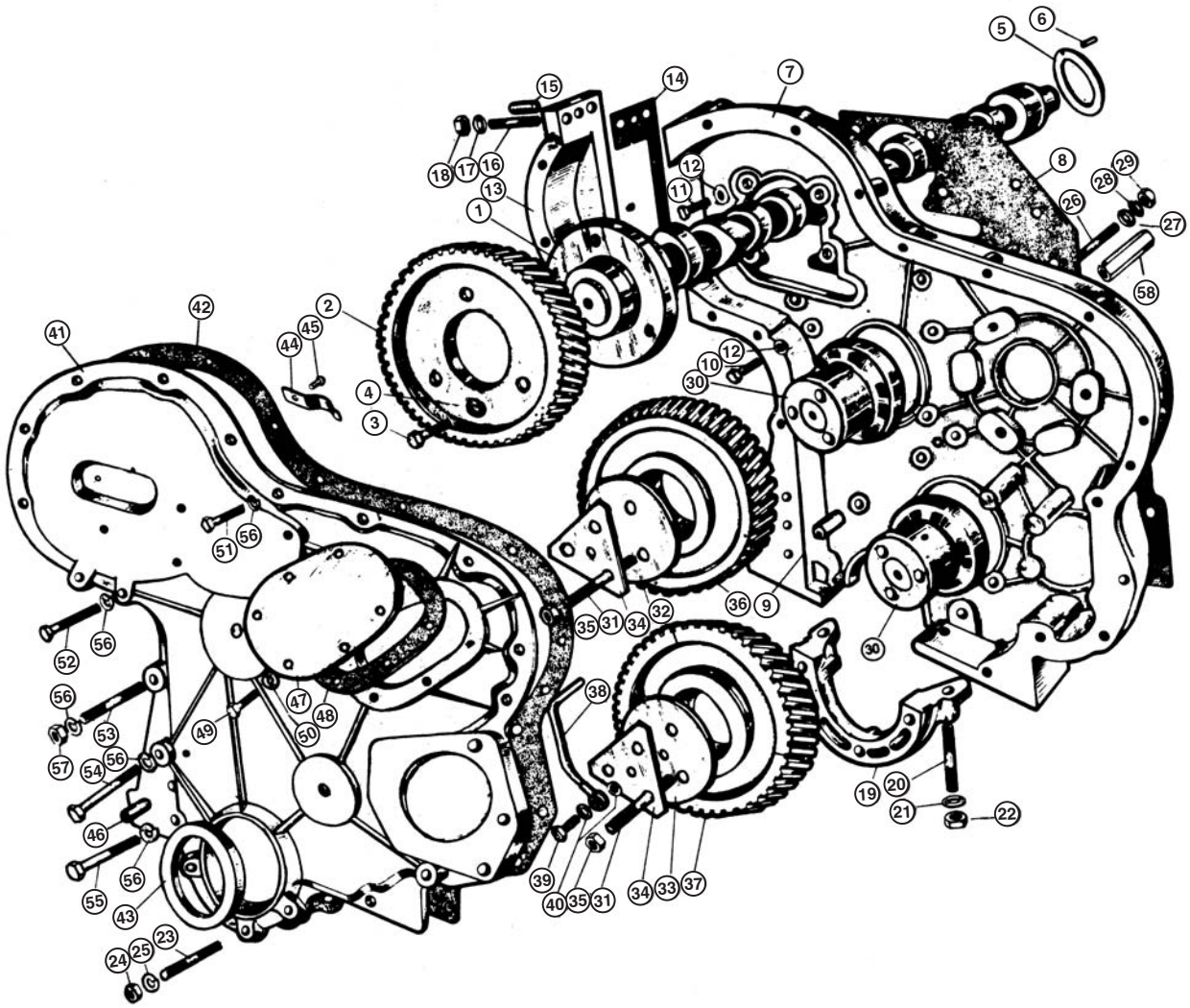
FIGURE NO. 6

TIMING GEAR AND CAMSHAFT



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Camshaft	ABTGC 0100	1	1
2.	Gear Camshaft	ABTGC 0200	1	1
3.	Setscrew Gear to Camshaft	ABTGC 0300	3	3
4.	Washer Spring Camshaft Gear Refg.	ABTGC 0400	3	3
5.	Washer Thrust	ABTGC 0500	1	1

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FIGURE NO. 6

TIMING GEAR AND CAMSHAFT

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
6.	Pin Thrust	ABTGC 0600	1	1
7.	Case Timing	ABTGC 0700	1	1
8.	Joint Timing Case	ABTGC 0800	1	1
9.	Dowel Timing Case to Cyl. Block	ABTGC 0900	2	2
10.	Setscrew Timing Case to Cyl. Block	ABTGC 1000	10	10
11.	Setscrew T/Case to Cyl. Block	ABTGC 1100	4	4
12.	Washer Spring T/Case Retg. Setscrew	ABTGC 1200	14	14
13.	T/Case P.T.O. Cover	ABTGC 1300	1	1
14.	Joint P.T.O. Cover	ABTGC 1400	1	1
15.	Dowel P.T.O. Cover to T/Case	ABTGC 1500	2	2
16.	Stud P.T.O. Cover Retg.	ABTGC 1600	4	4
17.	Washer Spring P.T.O. Cover Retg. Stud	ABTGC 1700	4	4
18.	Nut P.T.O. Cover Retg. Stud	ABTGC 1800	4	4
19.	Cover Timing Case Bottom	ABTGC 1900	1	1
20.	Stud/Timing Case Bottom Cover Retg.	ABTGC 2000	2	2
21.	Washer Spring Bottom Cover Retg. Stud	ABTGC 2100	2	2
22.	Nut Bottom Cover Retg. Stud	ABTGC 2200	2	2
23.	Stud T/Case Bottom Cover	ABTGC 2300	3	3
24.	Nut T/Case Bottom Cover Stud	ABTGC 2400	3	3
25.	Washer Spring T/Case Bottom Cover	ABTGC 2500	3	3
26.	Stud F.I.P. Retg.	ABTGC 2600	3	3
27.	Washer Plain F.I.P.	ABTGC 2700	3	3
28.	Wasehr Spring F.I.P.	ABTGC 2800	3	3
29.	Nut F.I.P. Retg.	ABTGC 2900	2	2
30.	Hub Idler Gear	ABTGC 3000	2	2
31.	Stud Idler Gear Hub	ABTGC 3100	6	6
32.	Plate Idler Gear Retg. (Upper)	ABTGC 3200	1	1
33.	Plate Idler Gear Retg. (Lower)	ABTGC 3300	1	1
34.	Washer Tub Idler Gear Hub	ABTGC 3400	2	2
35.	Nut Idler Gear Hub Retg.	ABTGC 3500	6	6
36.	Gear idler Upper	ABTGC 3600	1	1
37.	Gear Idler Lower	ABTGC 3700	1	1
38.	Lub. Oil Pipe Assy. Idler Gear	ABTGC 3800	1	1
39.	Banjo Bolt Lub. Oil Pipe Assy.	ABTGC 3900	1	1
40.	Washer Banjo Bolt	ABTGC 4000	2	2
41.	Cover T/Case	ABTGC 4100	1	1
42.	Joint T/Case Cover	ABTGC 4200	1	1
43.	Seal T/Case Front Cover	ABTGC 4300	1	1
44.	Spring Camshaft Thrust	ABTGC 4400	1	1
45.	Rivet Camshaft Thrust Spring	ABTGC 4500	1	1
46.	Dowel T/Case to Cover	ABTGC 4600	2	2
47.	Cover T/Case Inspection	ABTGC 4700	1	1
48.	Joint T/Case Inspection Cover	ABTGC 4800	1	1
49.	Setscrew T/Case Inspection Cover	ABTGC 4900	6	6
50.	Washer Spring T/Case Inspection Cover Retg. Setscrew	ABTGC 5000	6	6
51.	Setscrew T/Case Cover to T/Case	ABTGC 5100	11	11
52.	Setscrew T/Case Cover to T/Case	ABTGC 5200	5	5
53.	Stud T/Case Cover Retg.	ABTGC 5300	1	1
54.	Setscrew T/Case Cover to Block	ABTGC 5400	1	1
55.	Setscrew T/Case Cover to Block	ABTGC 5500	1	1
56.	Washer Spring T/Case Cover Retg. Setscrew	ABTGC 5600	19	19
57.	Nut T/Case Cover Retg. Stud	ABTGC 5700	1	1

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FIGURE NO. 7

LUB. OIL PUMP AND SUMP

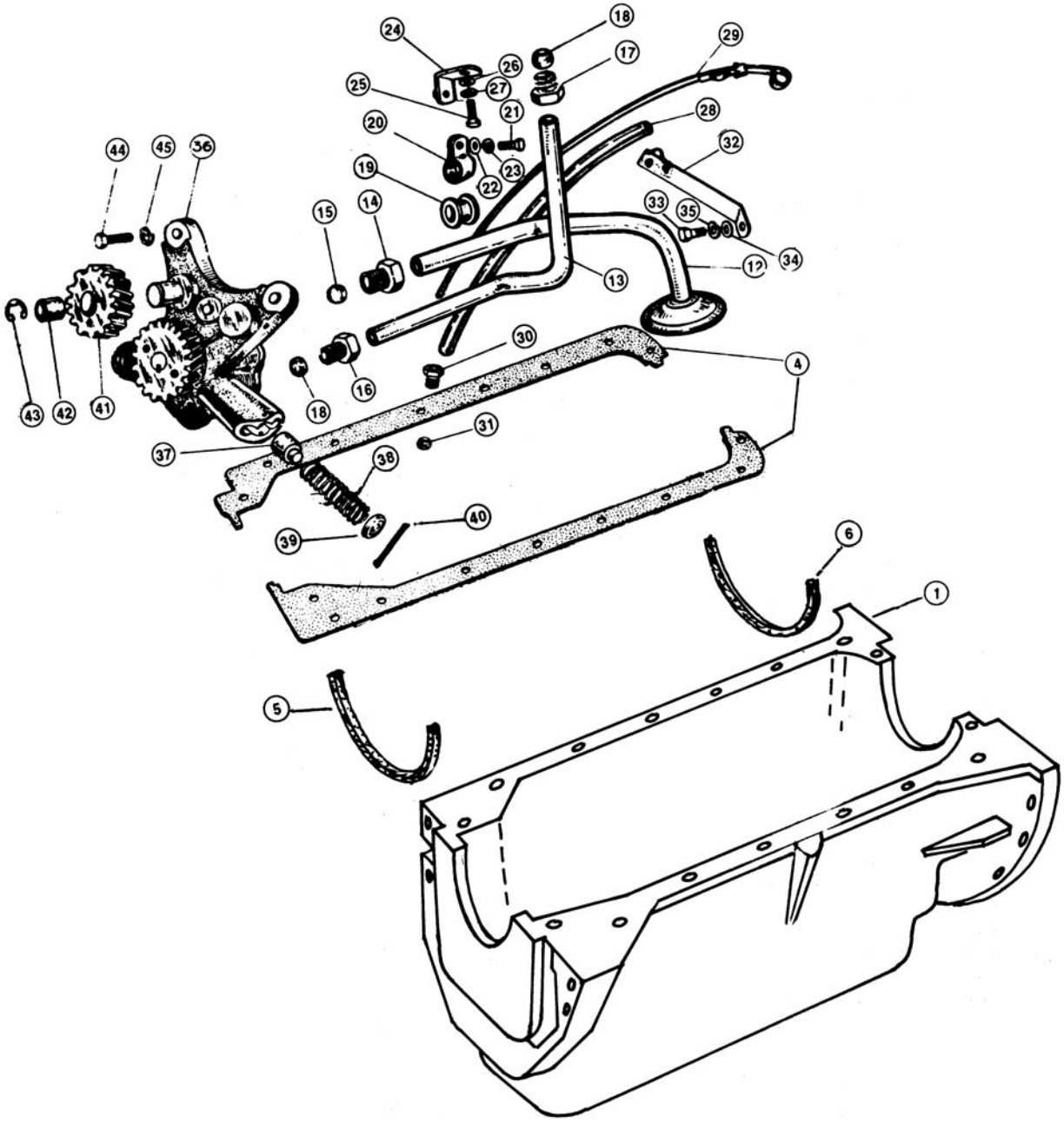

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FIGURE NO. 7

LUB. OIL PUMP AND SUMP

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Sump Lub. Oil	ABLOPS 0100	1	1
2.	Plug Sump Drain	ABLOPS 0200	1	1
3.	Washer Sump Drain Plug	ABLOPS 0300	1	1
4.	Joint Sump Lub. Oil	ABLOPS 0400	1	1
5.	Joint Sump to Block Front	ABLOPS 0500	1	1
6.	Joint Sump to Block Rear	ABLOPS 0600	1	1
7.	Setscrew Sump to Cy. Block	ABLOPS 0700	17	17
8.	Washer Spring Sump Retg. Setscrew	ABLOPS 0800	17	17
12.	Suction Pipe Lub. Oil	ABLOPS 1200	1	1
13.	Delivery Pipe Lub. Oil	ABLOPS 1300	1	1
14.	Gland Nut Lub. Oil Suction (1" - 12 UNF)	ABLOPS 1400	1	1
15.	Olive Lub. Oil Delivery Pipe	ABLOPS 1500	1	1
16.	Gland Nut Delivery Pipe (Pump End 2/8 UNF)	ABLOPS 1600	1	1
17.	Gland Nut Delivery Pipe (Block End M22 x 1.5)	ABLOPS 1700	1	1
18.	Olive Lub. Oil Delivery Pipe	ABLOPS 1800	2	2
19.	Bush Suction Pipe Clamping Clip	ABLOPS 1900	1	1
20.	Clip Suction Pipe Clamping Support Bracket	ABLOPS 2000	1	1
21.	Setscrew Suction Pipe Clamping	ABLOPS 2100	1	1
22.	Washer Plain Suction Pipe Clamping Setscrew	ABLOPS 2200	1	1
23.	Washer Spring Suction Pipe Clamping Setscrew	ABLOPS 2300	1	1
24.	Bracket Suction Pipe Support Bearing Cap Assy.	ABLOPS 2400	1	1
25.	Washer Plain Lub. Oil Suction Pipe Bracket to Main Bearing Cap	ABLOPS 2500	1	1
26.	Setscrew Lub. Oil Suction Pipe Bracket to Main Bearing Cap	ABLOPS 2600	1	1
27.	Washer Spring Suction Pipe Clamping Setscrew	ABLOPS 2700	1	1
28.	Tube Dipstick	ABLOPS 2800	1	1
29.	Dipstick	ABLOPS 2900	1	1
30.	Nut Dipstick Tube Assy.	ABLOPS 3000	1	1
31.	Olive Dipstick Tube	ABLOPS 3100	1	1
32.	Clip Assy. Dipstick Tube	ABLOPS 3200	1	1
33.	Setscrew Dipstick Clip to Washer	ABLOPS 3300	1	1
34.	Washer Plain Dipstick Clip	ABLOPS 3400	1	1
35.	Washer Spring Dipstick Clip	ABLOPS 3500	1	1
36.	Lub. Oil Pump Assy. (Includes Item Nos. 37 to 40)	ABLOPS 3600	1	1
37.	Plunger	ABLOPS 3700	1	1
38.	Spring	ABLOPS 3800	1	1
39.	Cap Spring Retg.	ABLOPS 3900	1	1
40.	Split Pin	ABLOPS 4000	1	1
41.	Gear Lub. Oil Idler	ABLOPS 4100	1	1
42.	Bush Idler Gear	ABLOPS 4200	1	1
43.	Circlip Idler Gear Retg.	ABLOPS 4300	1	1
44.	Setscrew Lub. Oil Pump to Main Bearing	ABLOPS 4400	3	3
45.	Washer Spring Lub. Oil Pump Retd. Setscrew	ABLOPS 4500	3	3
	Sump Gasket Set	ABLOPS 4609	1	1

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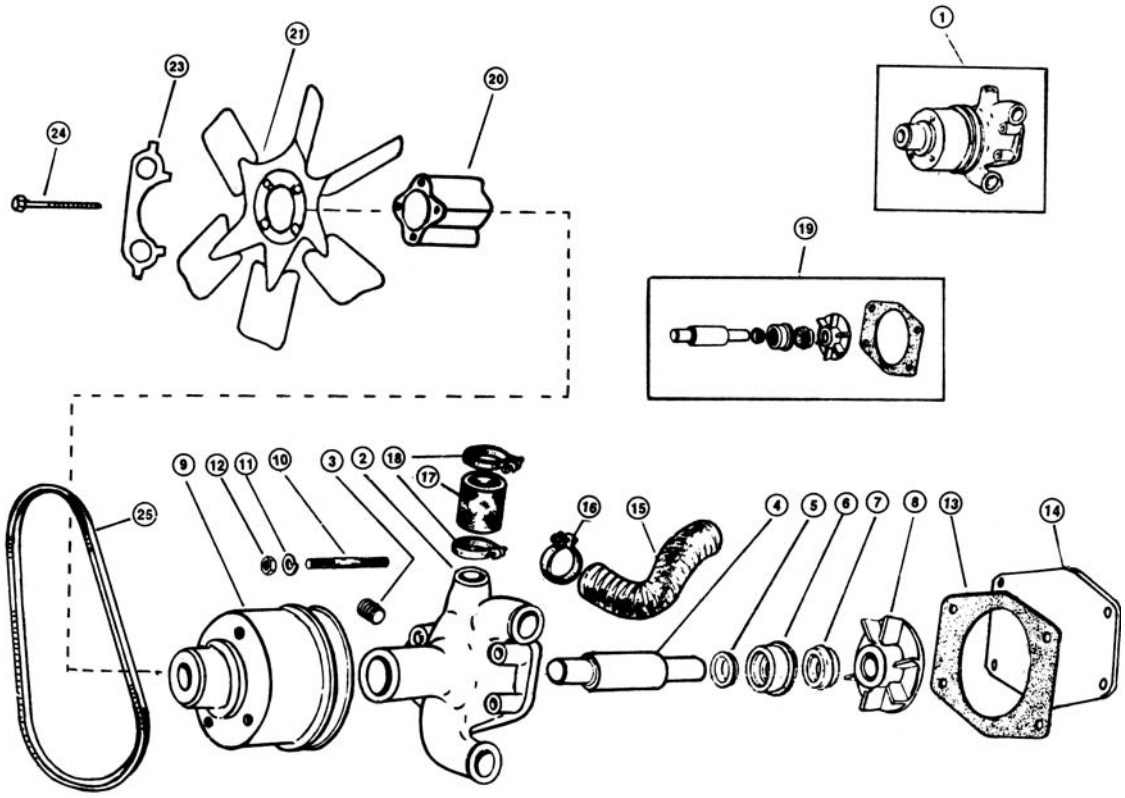
FIGURE NO. 8

WATER PUMP ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Water Pump Assembly (Including Item Nos. 2 to 9)	ABWPA 0100	1	1
2.	Body Water Pump	ABWPA 0200	1	1
3.	Plug Water Pump Body	ABWPA 0300	1	1
4.	Shaft Water Pump (Integral Brg. Type) ★	ABWPA 0400	1	1
5.	Flange Water Pump ★	ABWPA 0500	1	1
6.	Seal Water Pump ★	ABWPA 0600	1	1
7.	Ceramic Counterface ★	ABWPA 0700	1	1
8.	Impeller ★	ABWPA 0800	1	1
9.	Pulley	ABWPA 0900	1	1
10.	Stud Water Pump to timing Case cover	ABWPA 1000	4	4
11.	Washer Spring	ABWPA 1100	4	4
12.	Nut	ABWPA 1200	4	4
13.	Joint Water Pump to T/Case Cover ★	ABWPA 1300	1	1
14.	Plate	ABWPA 1400	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
15.	Hose Water Pump to Water Inlet Connection	ABWPA 1500	1	1
16.	Clip Water Inlet connection Hose	ABWPA 1600	2	2
17.	Hose Bypass Connection	ABWPA 1700	1	1
18.	Clip Bypass Connection Hose	ABWPA 1800	2	2
19.	Water Pump Kit, Comprising	ABWPA 1900	1	1
	Joint Water Pump Back Plate	ABWPA 1300	1	1
	Impeller	ABWPA 0800	1	1
	Ceramic Counter Face	ABWPA 0700	1	1
	Seal Water Pump	ABWPA 0600	1	1
	Flange Warter Pump	ABWPA 0500	1	1
	Shaft Water Pump (Integral Bearing Type)	ABWPA 0400	1	1
20.	Fan Extension	ABWPA 2000	1	1
21.	Fan	ABWPA 2100	1	1
23.	Tab Washer	ABWPA 2300	2	2
24.	Fan mounting bolt	ABWPA 2400	4	4
25.	Fan Belt	ABEDA 1700	1	1

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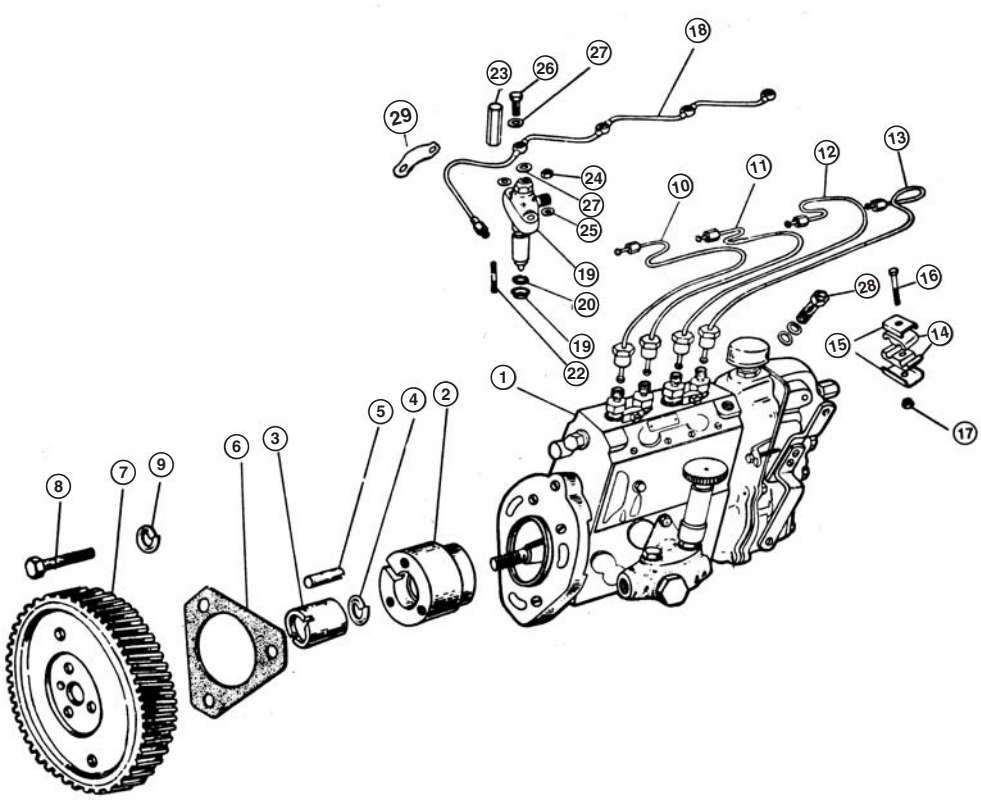
FIGURE NO. 9

FUEL INJECTION EQUIPMENT



ITEM NO.	DESCRIPTION	PART NO.	QTY. 12XW	QTY. 14XW
1.	Fuel Injection Pump	AB FIE 0100	1	1
2.	Adaptor Fuel Injection Pump Gear	AB FIE 0200	1	1
3.	Connecting Nut	AB FIE 0300	1	1
3.	Nut cylinder head cover Retaining	AB FIE 0400	1	1
4.	Washer	AB FIE 0500	1	1
5.	Dowel Drive Locating	AB FIE 0600	1	1
6.	Joint Fuel Pump to T/Case	AB FIE 0700	1	1
7.	Gear Fuel Pump Drive	AB FIE 0800	3	3
8.	Setscrew F.I. Pump Adaptor to Pump	AB FIE 0900	3	3
9.	Washer Spring F.I. Pump Adaptor to Pump			
10.	Pipe Fuel Injection Assy. No. 1 Cylinder	AB FIE 1000	1	1
11.	Pipe Fuel Injection Assy. No. 2 Cylinder	AB FIE 1100 AB FIE 1200	1 1	1 1
12.	Pipe Fuel Injection Assy. No. 3 Cylinder			
13.	Pipe Fuel Injection Assy. No. 4 Cylinder	AB FIE 1300	1	1
14.	Damper F.I. Pipe Vibration	AB FIE 1400	6	6
15.	Plate F.I. Pipe Vibration Damper Retg.	AB FIE 1500	6	6

ITEM NO.	DESCRIPTION	PART NO.	QTY. 12XW	QTY. 14XW
16.	Screw F.I. Pipe Damper	AB FIE 1600	3	3
17.	Nut F.I. Pipe Damper Screw	AB FIE 1700	3	3
18.	Pipe Fuel Oil Main Leak of Assy.	AB FIE 1800	1	1
19.	Nozzle and Holder Assy.	AB FIE 1900	4	4
20.	Washer Nozle Seating	AB FIE 2000	4	4
21.	Dust Shield Atomiser	AB FIE 2100	4	4
22.	Stud Atomiser Retg.	AB FIE 2200	4	4
23.	Nut Atomiser Retg. Inner Stud	AB FIE 2300	4	4
24.	Nut Atomiser Retg.	AB FIE 2400	4	4
25.	Washer Atomiser Retg.	AB FIE 2500	3	3
26.	Banjo Bold Leak Off Pipe	AB FIE 2600	4	4
27.	Washer	AB FIE 2700	8	8
28.	Relief Valve Assy.	AB FIE 2800	1	1
29.	Stop Cable Clampy	AB FIE 2900	1	1
30.	Hand Primer (Feed Pump)	AB FIE 3000	1	1
31.	Element	AB FIE 3100	1	1
32.	Oil Seal Cam Shaft	AB FIE 3200	1	1
33.	Gasket Kit	AB FIE 3300	1	1
34.	Pipe Atomiser O/F to FIP O/F	AB FIE 3400	1	1
35.	Lever Stop Cable	AB FIE 3500	1	1
	Engine Complete	S41S		

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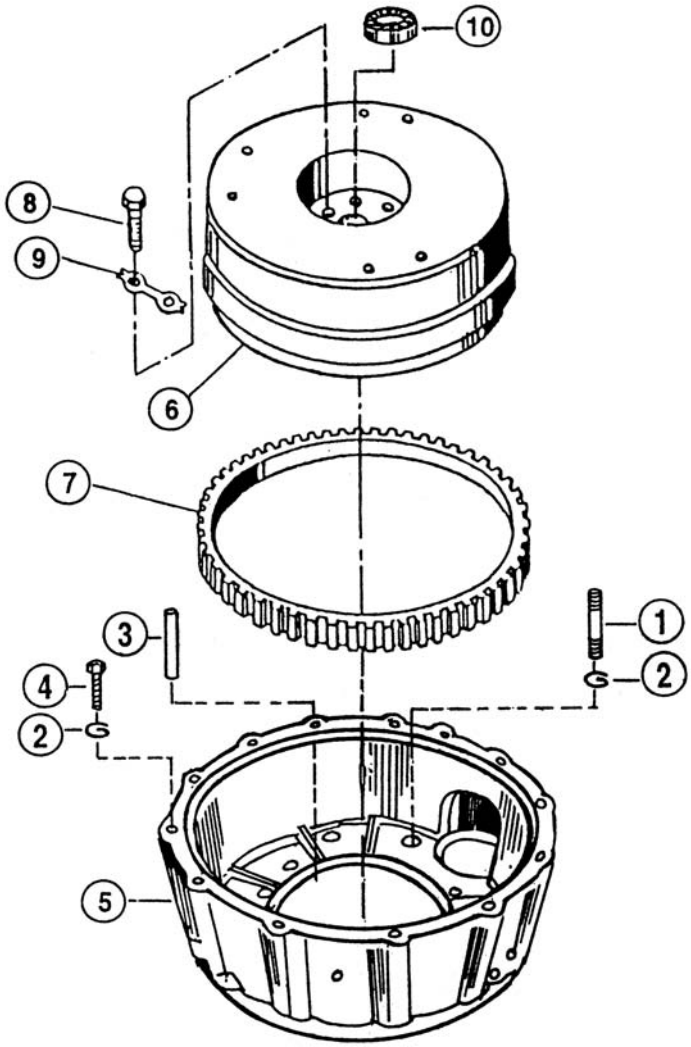
FIGURE NO. 10

FLYWHEEL AND FLYWHEEL HOUSING



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Stud	ABFWH 0100	1	1
2.	Spring Washer	ACHW-0607	19	19
3.	Dowel Cylinder Block to housing	ABFWH 0309	2	2
4.	Hex Bolt M 10X40	ACHW-0024	13	13
5.	Flywheel Housing	ABFWH0900S	1	1
6.	Flywheel	ABFWH1000S	1	1
7.	Flywheel Ring	ABFWH1100S	1	1
8.	Set Screw	ABFWH 1200	6	6
9.	Tab Washer	ABFWH 0300	3	3
10.	Bearing	ABC 0100	1	1

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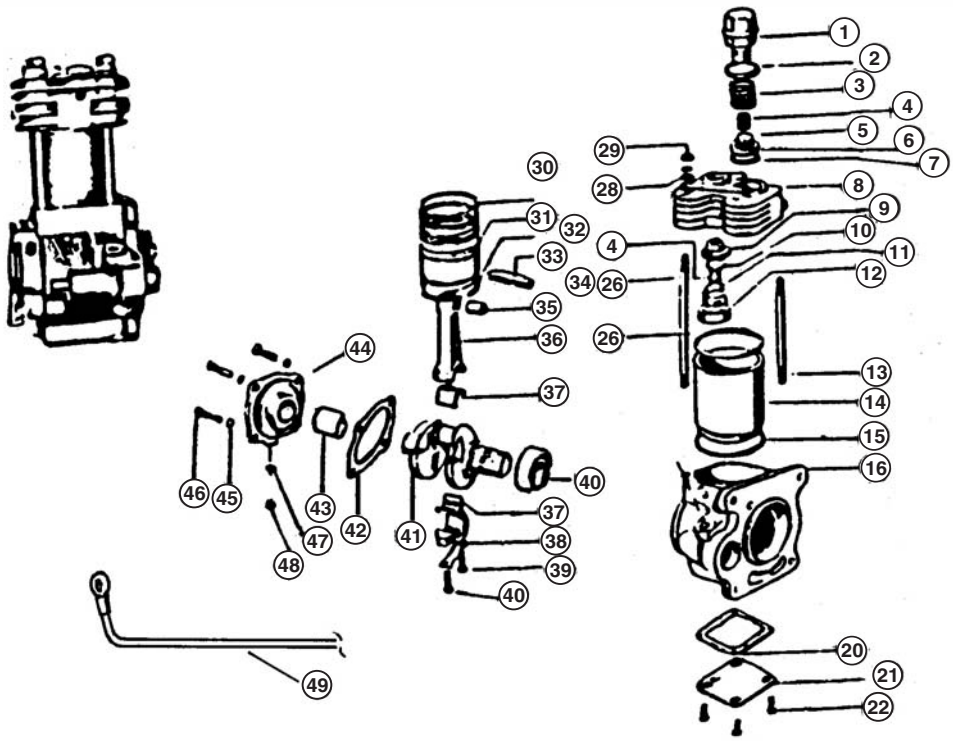
FIGURE NO. 11

COMPRESSOR DETAILS



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Delivery Valve Cap & Spring Guide	ABCDS 0100	1	1
2.	Washer	ABCDS 0200	1	1
3.	Retaining Spring	ABCDS 0300	1	1
4.	Spring	ABCDS 0400	1	1
5.	Delivery Valve Disc	ABCDS 0500	1	1
6.	Delivery Valve Seal	ABCDS 0600	1	1
7.	'O' Ring	ABCDS 0700	1	1
8.	Cylinder Head	ABCDS 0800	1	1
9.	Inlet Valve Seat	ABCDS 0900	1	1
10.	Inlet Valve Disc	ABCDS 1000	1	1
11.	Inlet Valve Guide	ABCDS 1100	1	1
12.	Inlet Valve Spring Guide	ABCDS 1200	1	1
13.	Stud (Short)	ABCDS 1300	1	1
14.	Cylinder	ABCDS 1400	1	1
15.	Cylinder Joint (Bottom)	ABCDS 1500	1	1
16.	Crank Case	ABCDS 1600	1	1
20.	Sump Joint	ABCDS 2000	1	1
21.	Base Cover	ABCDS 2100	1	1
22.	Counter Sunk Screw	ABCDS 2200	4	4
25.	Cylinder Joint (Top)	ABCDS 2500	1	1
26.	Stud (Long)	ABCDS 2600	3	3
28.	Plain Washer	ABCDS 2800	4	4
29.	Nut	ABCDS 2900	4	4

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
30.	Compression Ring	ABCDS 3000	4	4
31.	Piston	ABCDS 3100	1	1
32.	Oil Spacer Ring	ABCDS 3200	1	1
33.	Gudeon Pin	ABCDS 3300	1	1
34.	Circlip	ABCDS 3400	2	2
35.	Wrapped Bush	ABCDS 3500	1	1
36.	Connecting Rod with Cap	ABCDS 3600	1	1
37.	Thin Wall Bearing	ABCDS 3700	2	2
38.	Locking Strip	ABCDS 3800	1	1
39.	Connecting Rod Bolt	ABCDS 3900	2	2
40.	Ball Race	ABCDS 4000	1	1
41.	Crank Shaft	ABCDS 4100	1	1
42.	End Cover Joint	ABCDS 4200	1	1
43.	Bush	ABCDS 4300	2	2
44.	End Cover	ABCDS 4400	4	4
45.	Spring Washer	ABCDS 4500	4	4
46.	Hex Bolt	ABCDS 4600	1	1
47.	Banjo Bolt Compressor Lub. Oil	ABCDS 4700	1	1
48.	Washer Banjo Bolt Single Cylinder	ABCDS 4800	2	2
49.	Pipe Compressor Lub. Oil	ABCDS 4900	1	1
50.	Gear Compressor	ABCDS 5000	1	1
	Compressor Assy.	ABCDS 0000	1	1
	Major Repair Kit, Compressor	ABCDRK 00		

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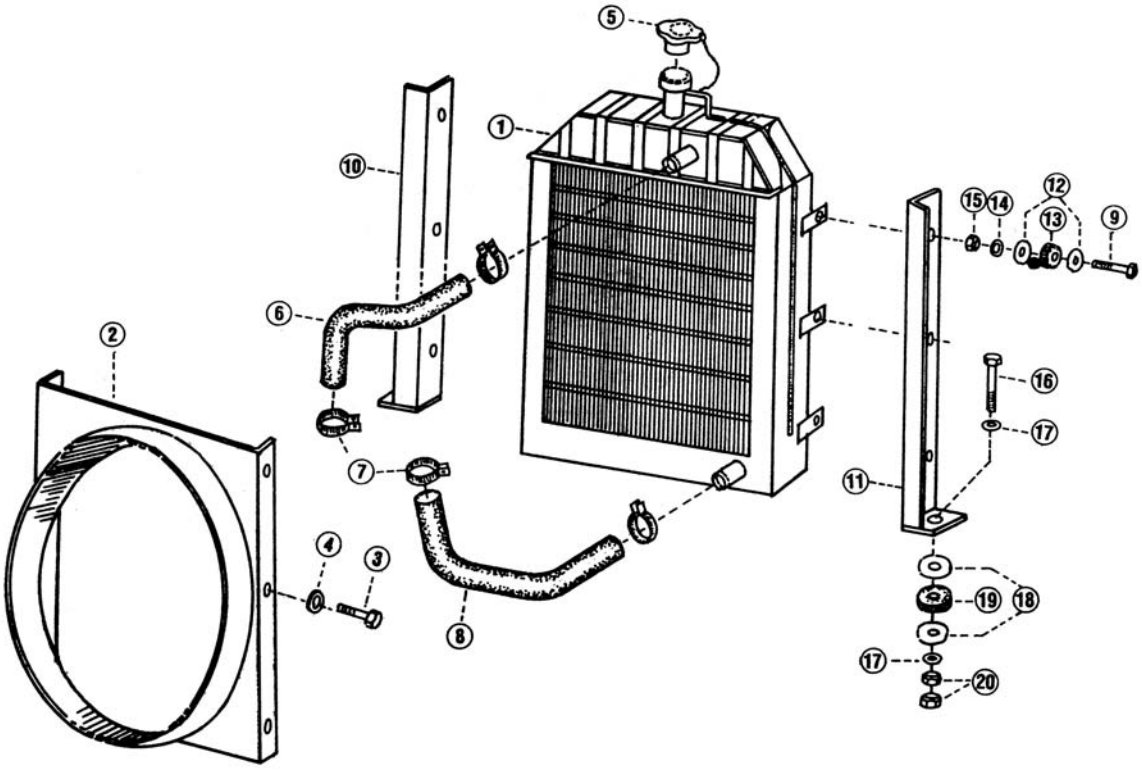
FIGURE NO. 12

COOLING SYSTEM ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Radiator Assy.	ABCSA 0100C	1	1
2.	Cowling ★	ABCSA 0200	1	1
3.	Screw	ABCSA 0300	6	6
4.	Washer	ABCSA 0400	6	6
5.	Radiator Cap	ABCSA 0500	10	10
6.	Elbow Top	ABCSA 0600	1	1
7.	Clamp Hose	ABCSA 0700	4	4
8.	Elbow Bottom	ABCSA 0900B	1	1
9.	Hex Bolt M8x25	ACHW 0008	6	6
10.	Radiator Mtg. Bkt. LH	ABCSA 1010	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
11.	Radiator Mtg. Bkt. RH	ABCSA 1011	1	1
12.	Plain Washer M8	ACHW 0504	12	12
13.	Rubber Washer	ABLPCSA900	6	6
14.	Spring Washer M8	ACHW-0606	6	6
15.	Hex Nut M8	ACHW-0555	6	6
16.	Hex Bolt M10x50	ACHW-0019	2	2
17.	Plain Washer M10	ACHW-0505	4	4
18.	Special Washer	ABCSA1900	4	4
19.	Rubber Pad	ABCSA1409	2	2
20.	Hex Nut M10	ACHW-0556	4	4

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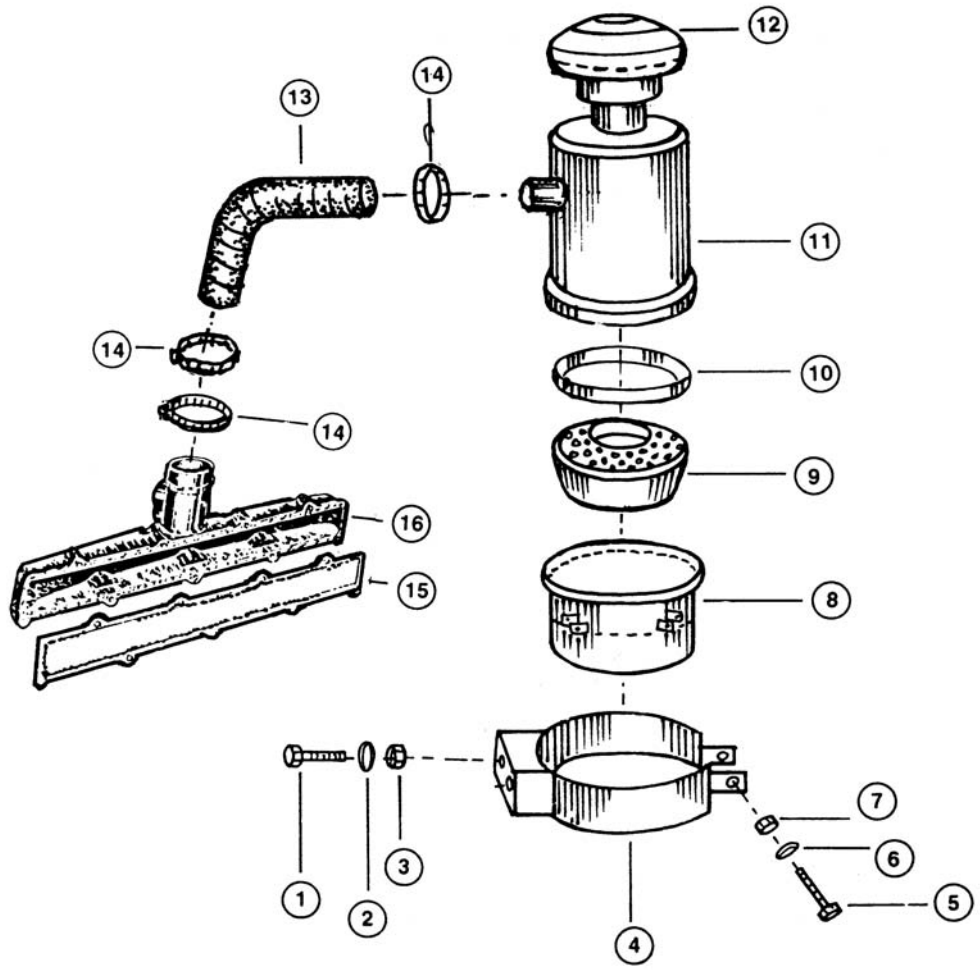
FIGURE NO. 13

AIR CLEANER ASSY. (WET TYPE)



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Bolt	ABACA 0200	2	2
2.	Washer	ABACA 0300	2	2
3.	Nut	ABACA 0400	2	2
4.	Clamp	ABACA 0500	1	1
5.	Bolt	ABACA 0600	1	1
6.	Washer	ABACA 0700	1	1
7.	Nut	ABACA 0800	1	1
8.	Bowl ★	ABACA 0900	1	1
9.	Element ★	ABACA 1000	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
10.	'O' Ring ★	ABACA 1100	1	1
11.	Body ★	ABACA 1200	1	1
12.	Pre-Cleaner ★	ABACA 1600	1	1
13.	Elbow Air Inlet	ABACA 1709	1	1
14.	Clamp	ABACA 1800	3	3
15.	Gasket	ABACA 2000	1	1
16.	Induction Manifold	ABACA 2100	1	1
	Air Cleaner Assy. Complete (item no. 8-12)	ABACA 000	1	1

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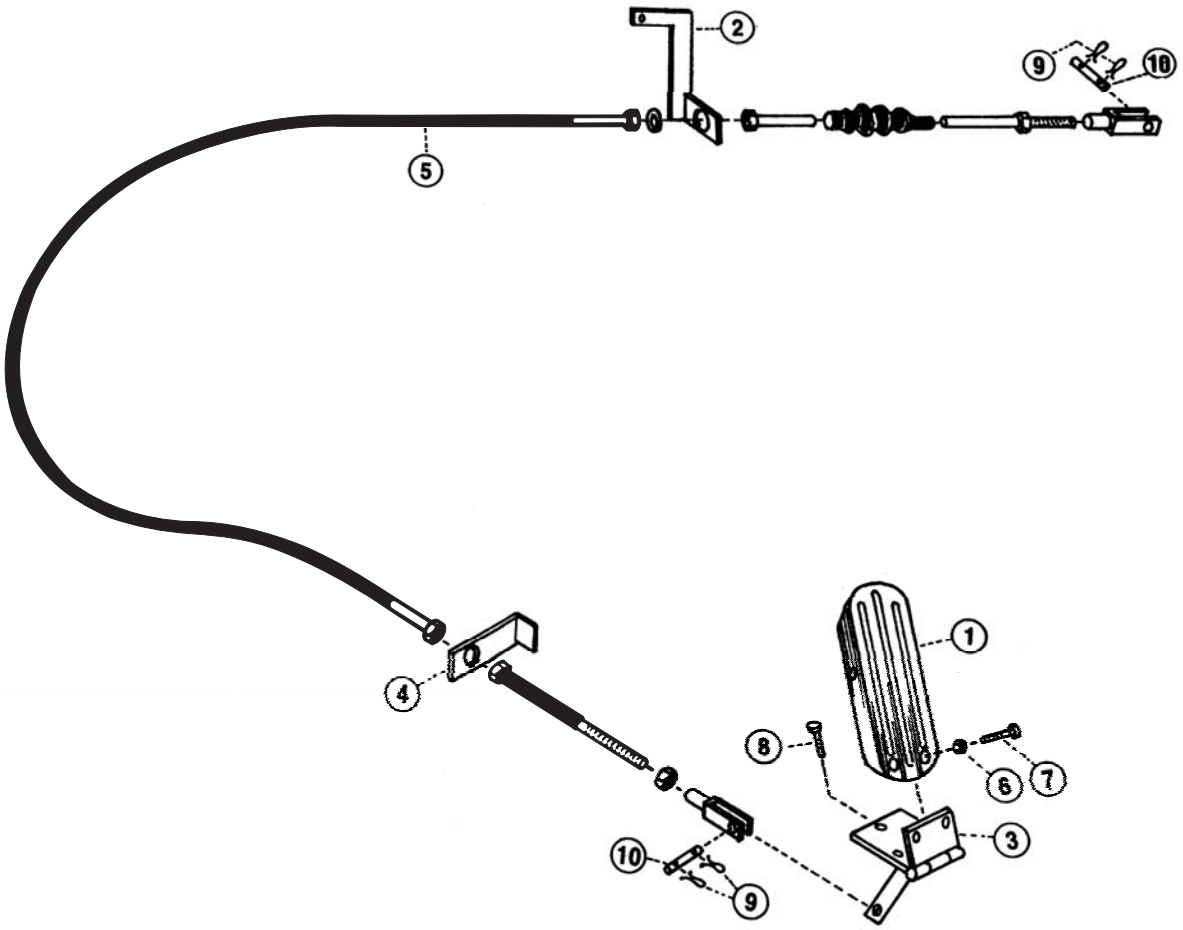
FIGURE NO. 14

FOOT ACCELERATOR ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Foot Pedal	AFFAA 0109	1	1
1.	Foot Pedal (for city crane)	AFFAAC 0110	1	1
2.	Bracket Accelerator Cable	AFFAA 0209	1	1
3.	Hinge with Lever	AFFAA 0309	1	1
4.	Bracket	AFFAA 0409	1	1
5.	Throtal Cable Assy.	AFFAA 0509	1	1
6.	Hex Bolt M8x15	ACHW 0006	2	2
7.	Hex Nut M8	ACHW 0555	5	5
8.	Hex Bolt M8x20	ACHW 0007	3	3
9.	Split Pin	AFFAA 1000	4	4
10.	Pin	AMFAA 0609	2	2

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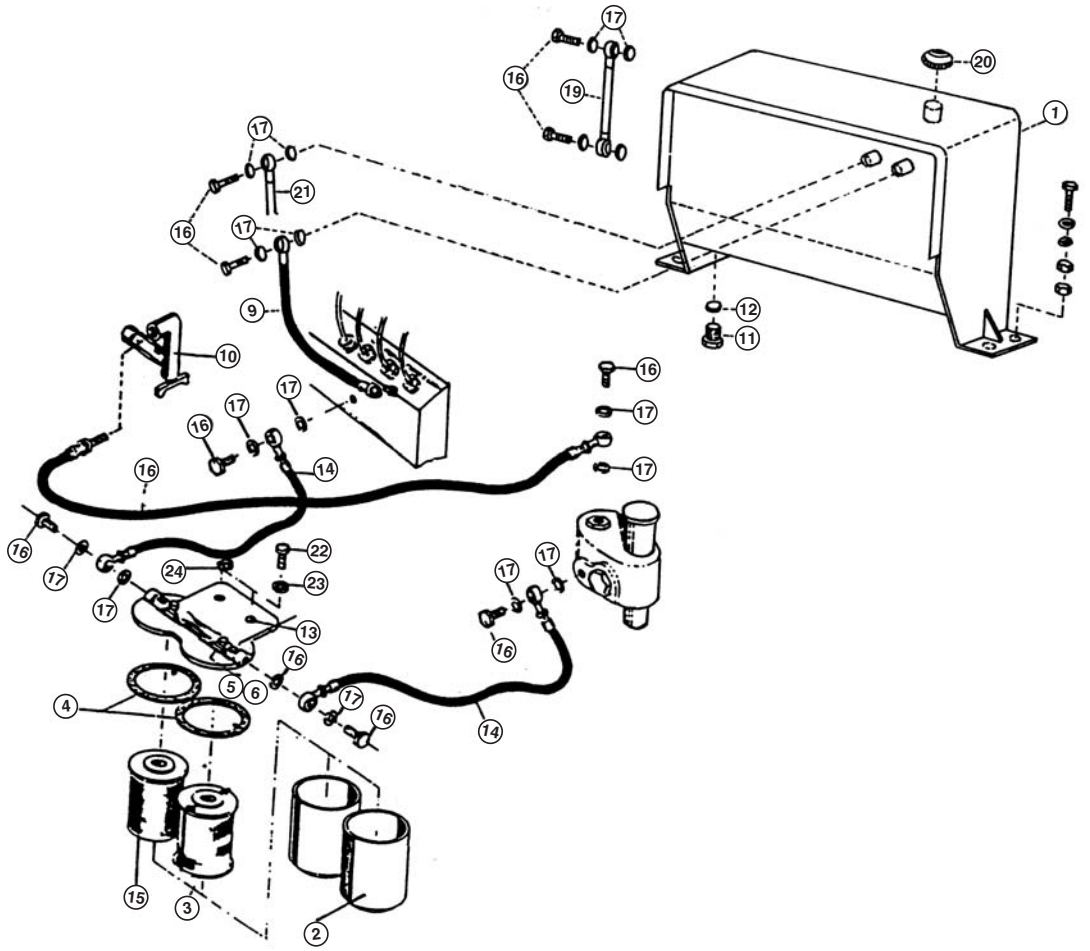
FIGURE NO. 15

FUEL FILTER & FUEL TANK ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Fuel Tank Assy.	AFFTA 0100A	1	1
2.	Filter Housing ★	AFFTA 0200	2	2
3.	Prefilter ★	AFFTA 0300	1	1
4.	'O' Ring ★	AFFTA 0400	2	2
5.	Air Vent Screw	AFFTA 0500	2	2
6.	Washer	AFFTA 0600	2	2
7.	Washer	AFFTA 0700	2	2
8.	Hex Screw	AFFTA 0800	2	2
9.	Fuel Pipe Overflow 660mm	AFFTA 0900	3	3
10.	Fuel Cock	AFFTA 1000	1	1
11.	Drain Plug	AFFTA 1100	1	1
12.	Washer	AFFTA 1200	1	1
13.	Filter Cover ★	AFFTA 1300	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
15.	Micro Filter	AFFTA 1500	1	1
16.	Banjo Bolt	AFFTA 1600	9	9
17.	Washer	AFFTA 1700	18	18
18.	Fuel Pipe Tank to Fuel Cock	AFFTA 1800A	1	1
19.	Fuel Level Gauge	AFFTA 1900	1	1
20.	Fuel Tank Cap	AFFTA 2000	1	1
21.	Injector Overflow Pipe	AFFTA 2100	1	1
22.	Bolt	AFFTA 2200	2	2
23.	Washer	AFFTA 2300	2	2
24.	Nut	AFFTA 2400	2	2
	Filter Element Kit (item 3 & 15)	ABDFEK000		
	Fuel Filter Assy.	ABETA 00		
25.	Fuel Tank Neck with Cap Assy.	AFFTA 2609		

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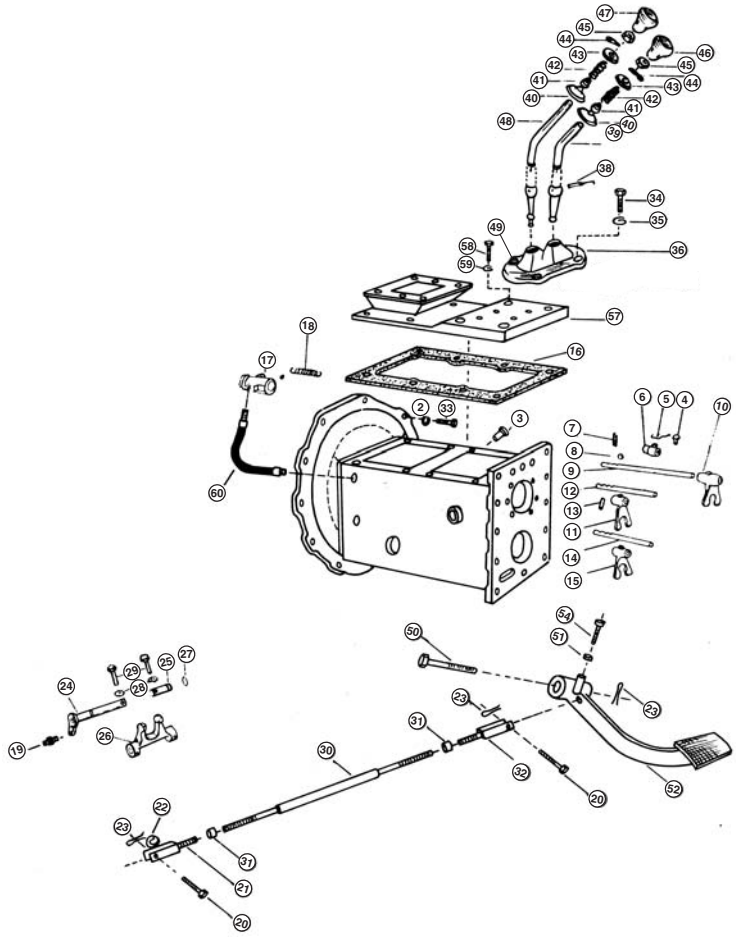
FIGURE NO. 16

GEAR BOX HOUSING ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Gear Box Housing	ASGBHA 0100	1	1
2.	Spring Washer	ASGBHA 0200	13	13
3.	Plastic Cap	ASGBHA 0300	2	2
4.	Locking Screw	ASGBHA 0400	4	4
5.	Locking Wire	ASGBHA 0500	A/R	A/R
6.	Shifter Bush	ASGBHA 0600	1	1
7.	Spring (Shifter Rod)	ASGBHA 0700	3	3
8.	Steel Ball	ASGBHA 0800	3	3
9.	Shifter Rod III-LO	ASGBHA 0900	1	1
10.	Shifter Fork III-LO	ASGBHA 1000	1	1
11.	Shifter Fork I-R	ASGBHA 1100	1	1
12.	Shifter Rod I-R	ASGBHA 1200	1	1
13.	Locking Pin	ASGBHA 1300	1	1
14.	Shifter Rod II-III	ASGBHA 1400	1	1
15.	Shifter Fork	ASGBHA 1500	1	1
16.	Gasket top Cover	ASGBHA 1600	1	1
17.	Inner Bush	ASGBHA 1700	1	1
18.	Spring For Inner Bush	ASGBHA 1800	2	2

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FIGURE NO. 16

GEAR BOX HOUSING ASSY.

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
19.	Grease Nipple	ASGBHA 1900	2	2
20.	Link Pin (GB)	ASGBHA 2000	2	2
21.	Actuator Fork R	ASGBHA 2100	1	1
22.	MCD Washer	ASGBHA 2200	2	2
23.	Split Cotter Pin	ASGBHA 2300	2	2
24.	Shaft with Lever (4+1)	ASGBHA 2409B	1	1
25.	Actuator Shaft RT.	ASGBHA 2500	1	1
26.	Actuator Fork (C.A.)	ASGBHA 2600	1	1
27.	O Ring For AF	ASGBHA 2700	2	2
28.	Spring Washer	ASGBHA 2800	2	2
29.	Hex Bolt-HB	ASGBHA 2900	2	2
30.	Tie Rod	ASGBHA 3000	1	1
31.	Hex Lock (Tie Rod)	ASGBHA 3100	1	1
32.	Actuator Fork LT.	ASGBHA 3200	1	1
33.	Hex Bolt	ASGBHA 3300	13	13
34.	Hex Bolt	ASGBHA 3400	4	4
35.	Spring Washer	ASGBHA 3500	4	4
36.	Gasket (Shifter HSG)	ASGBHA 3700	1	1
38.	Pin	ASGBHA 3800	2	2
39.	Hi-Low Shifter Lever	ASGBHA 3900	1	1
40.	Dust Cover (Rubber Washer)	ASGBHA 4000	2	2
41.	Dusat Cap	ASGBHA 4100	2	2
42.	Spring (Shifter HSG)	ASGBHA 4200	2	2
43.	Spring Sheet (Gear Shifter Lever)	ASGBHA 4300	2	2
44.	Split Pin (Cotter Pin)	ASGBHA 4400	2	2
45.	Hex Nut	ASGBHA 4500	2	2
46.	HL Knob	ASGBHA 4600	1	1
47.	Shifter Knob	ASGBHA 4700	1	1
48.	Gear Shifter (Speed Change)	AGBHA 3809	1	1
49.	Shift HSG	ASGBHA 4900	1	1
50.	Pin	ABCH 4400	1	1
51.	Hex Nut	ABCH 0500	1	1
52.	Clutch Pedal	ABC 3209	1	1
53.	Split Pin	ABCC 0300	1	1
54.	Bolt	ABCL 0400	1	1
55.	Pin	ABC 3600	2	2
56.	Split Pin	ABC 3700	2	2
57.	Top Cover	ASGBHA 5700	1	1
58.	Hex Bolt M12X50	ACHW-0037	8	8
59.	Spring Washer M12	ACHW-0608	8	8
60.	Grease Pipe Flexible	ASGBHA 6000	1	1
61.	Release Bearing	ABC 2800S	1	1
62.	Rubber Bend	ASGBHA 6200	1	1
63.	Cover Plate (4 Stroke)	ASGBHA 6300	1	1
64.	Gasket (4 Stroke)	ASGBHA 6400	1	1
65.	Side Cover Plate	ASGBHA 6700	1	1
66.	Speed Change Lever with Fork	ASGBHA 6800	1	1
67.	Fork (Hi-Low Lever)	ASGBHA 6900	1	1
68.	Shaft with Lever (3+1)	ASGBHA 7000	1	1
69.	Gasket (Lever Bottom)	ASGBHA 7200	1	1
70.	Spacer	ASGBHA 7300	1	1
71.	Shifter Bush	ASGBHA 7400	1	1
72.	Hi-Low Mtg. Bkt.	AFGBHA 7600	1	1
	Gear Box Housing Assy.	ABGBDHA0100		
73.	Bush	AMGBHA 7700	1	1
74.	Clutch Rod Assembly (item no. 30,31,32,20,21,22,23)	ABG 5309A	1	1

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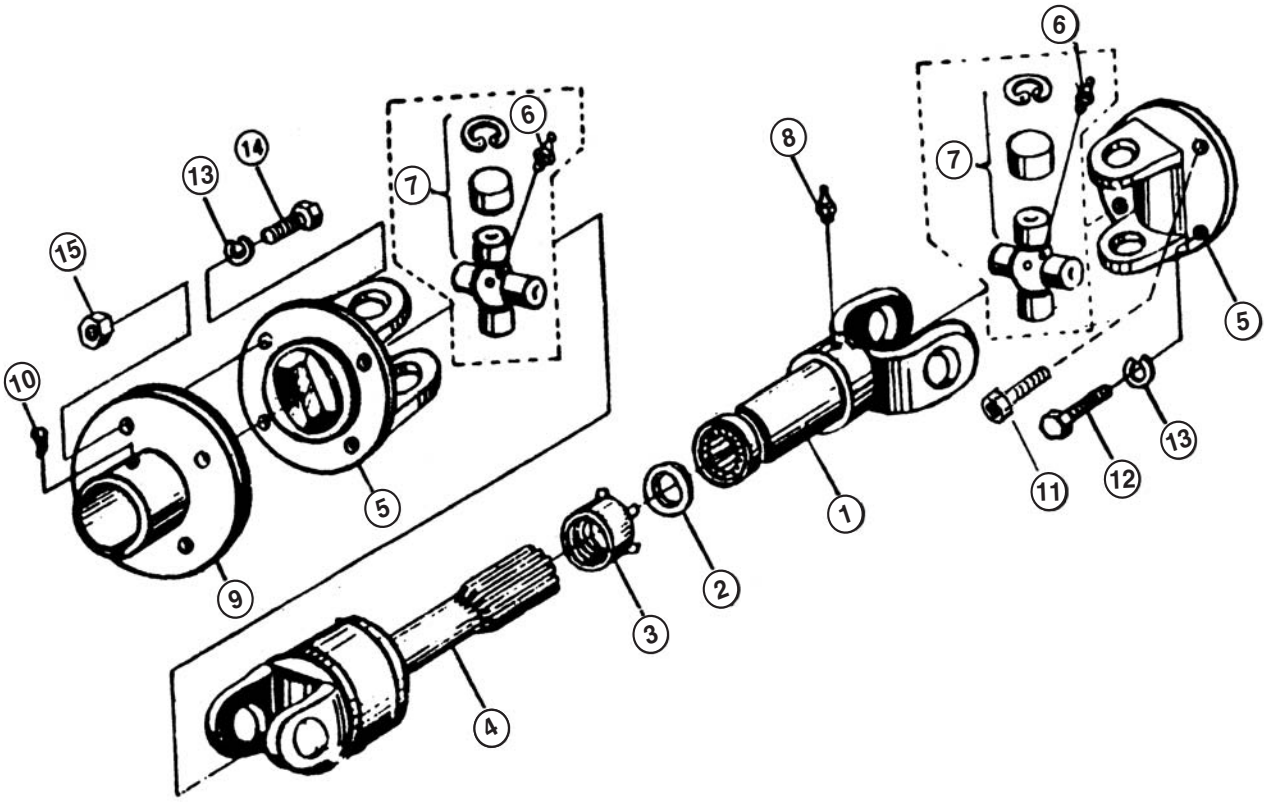
FIGURE NO. 17

PUMP COUPLING ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Slip Joint ★	ABPCA 0100	1	1
2.	Cork Washer ★	ABPCA 0200	1	1
3.	Dust Cap ★	ABPCA 0300	1	1
4.	Splined Shaft ★	ABPCA 0400	1	1
5.	Yoke Flange ★	ABPCA 0500	2	2
6.	Grease Nipple (G1.06)	ABPCA 0600	4	4
7.	Universal Joint Kit	ABPCA 0700	2	2

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
9.	Pump Flange	ABPCA 0900	1	1
10.	Grub Screw	ABPCA 1000	1	1
11.	Allen Screw	ABPCA 1100	4	4
12.	Screw	ABPCA 1200	4	4
13.	Spring Washer	ABPCA 1300	8	8
14.	Bolt	ABPCA 1400	4	4
15.	Nut	ABPCA 1500	4	4
	Pump Coupling Assy.	ABPCA 000	1	1

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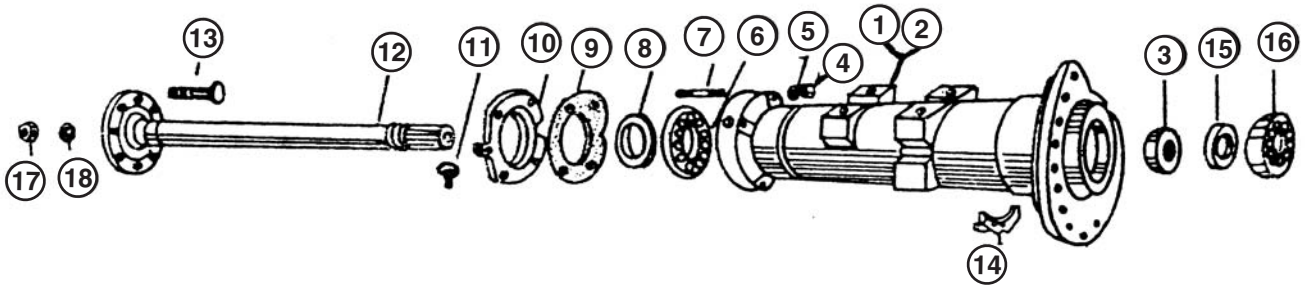
FIGURE NO. 18

TRUMPET HOUSING ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Trumpet HSG. LT	ASTHA 0100	1	1
2.	Trumpet HSG RT	ASTHA 0200	1	1
3.	Oil Seal	ASTHA 0300	2	2
4.	Hex Nut	ASTHA 0400	8	8
5.	Spring Washer	ASTHA 0500	8	8
6.	Ball Bearing	ASTHA 0600	2	2
7.	Hex Screw	ASTHA 0700	8	8
8.	Oil Seal	ASTHA 0800	2	2
9.	Gasket (Trumpet Cover)	ASTHA 0900	2	2
10.	Cover (Trumpet)	ASTHA 1000	2	2
11.	Grease Nipple	ASTHA 1100	4	4

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
12.	Rear Axle	ASTHA 1200	2	2
13.	Wheel Bolt	ASTHA 1300	16	16
14.	Plate Assy.	ASTHA 1400	2	2
15.	Spacer	ASTHA 1500	2	2
16.	Ball Bearing	ASTHA 1600	2	2
17.	Hex Wheel Nut (Rear Wheel)	ASTHA 1700	16	16
18.	Spring Washer	ASTHA 1800	16	16
19.	Tie Bar Plate	ASTHA 1900	2	2
	Trumpet Hsg. Assy. LH			
	Item No. 1 to 18	ASTHA 000		
	RH	ASTHA 001		

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FIGURE NO. 19

GEAR BOX COMPONENTS

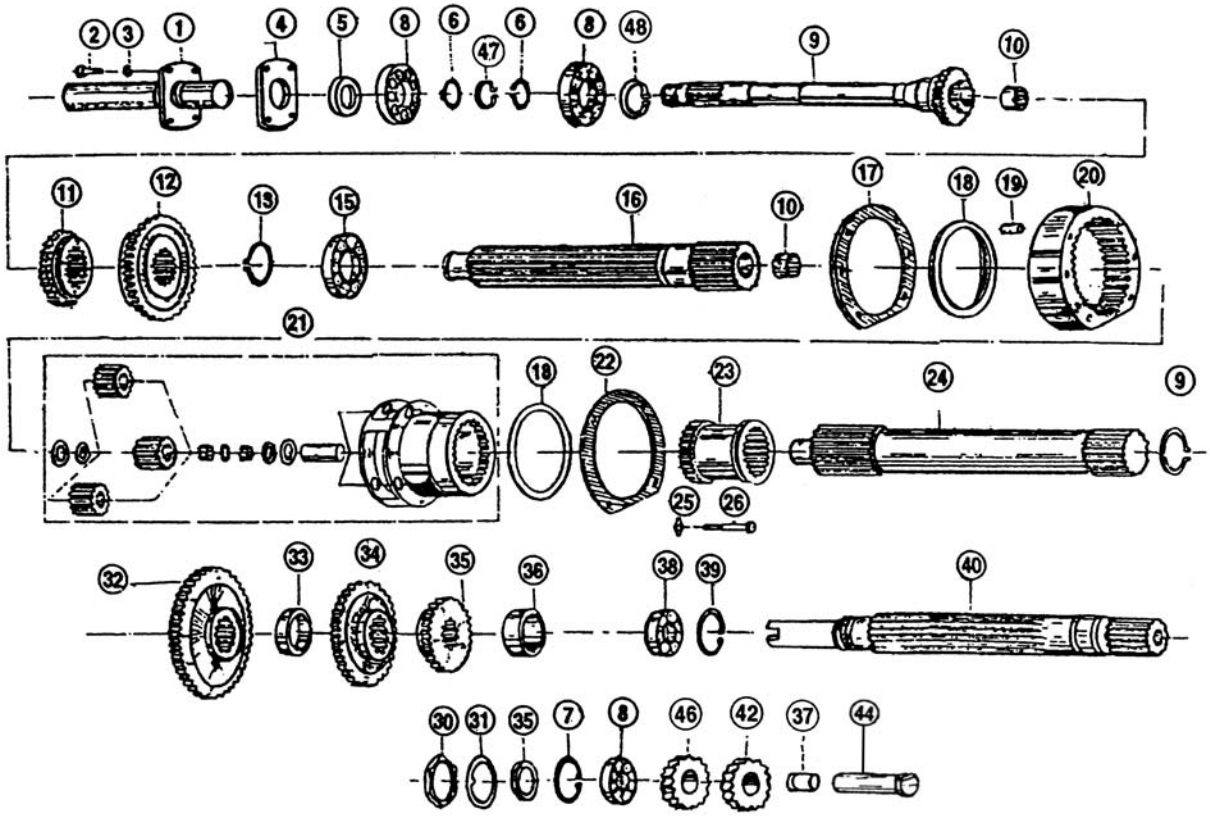

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FIGURE NO. 19

GEAR BOX COMPONENTS

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Clutch Actuator Guide	ASGBC 0100	1	1
2.	Hex Bolt	ASGBC 0008	4	4
3.	Spring Washer	ASGBC 0606	4	4
4.	Gasket (C.A. Guide)	ASGBC 0400	1	1
5.	Oil Seal	ASGBC 0500	1	1
6.	Circlip	ASGBC 0600	1	1
7.	Internal Circlip	ASGBC 0700	3	3
8.	Ball Bearing	ASGBC 0800	2	2
9.	Input Shaft	ASGBC 0900	1	1
10.	Needle Bush	ASGBC 1000	2	2
11.	Gear Z-26	ASGBC 1100	1	1
12.	Gear Z-34	ASGBC 1200	1	1
13.	Circlip	ASGBC 1300	2	2
14.	Circlip	ASGBC 1400	1	1
15.	Ball Bearing	ASGBC 2800	2	2
16.	Intermediate Shaft	ASGBC 1600	1	1
17.	Inner Plate	ASGBC 1700	1	1
18.	Thrust Plate (Copper)	ASGBC 1800	2	2
19.	Dowel Pin (Internal Gear)	ASGBC 1900	2	2
20.	Internal Plate	ASGBC 2000	1	1
21.	Planet Gear & Carrier Assy.	ASGBC 2100	1	1
22.	Outer Plate	ASGBC 2200	1	1
23.	Sleeve H/L	ASGBC 2300	1	1
24.	Output shaft	ASGBC 2400	1	1
25.	Locking Washer (Pia. Carrier)	ASGBC 2500	4	4
30.	Special Nut	ASGBC 3000	1	1
31.	Locking Washer (Lay Shaft)	ASGBC 3100	1	1
32.	Constant Mesh Gear	ASGBC 3200	1	1
33.	Spacer	ASGBC 3300	1	1
34.	Gear	ASGBC 3400	1	1
35.	Gear	ASGBC 3500	1	1
36.	Spacer	ASGBC 3600	1	1
37.	Bush	ASGBC 3701S	1	1
38.	Ball Bearing	ASGBC 6308	1	1
39.	Circlip	ASGBC 3900	1	1
40.	Lay Shaft with NW	ASGBC 4009	1	1
42.	Idler Gear	ASGBC 4209	1	1
44.	Idler Gear Shaft	ASGBC 4409	1	1
46.	Reverse Gear	ASGBC 4609	1	1
47.	Circlip	ASGBC 4700	1	1
48.	Circlip	ASGBC 4800	1	1

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FIGURE NO. 20

DIFFERENTIAL HOUSING ASSY.

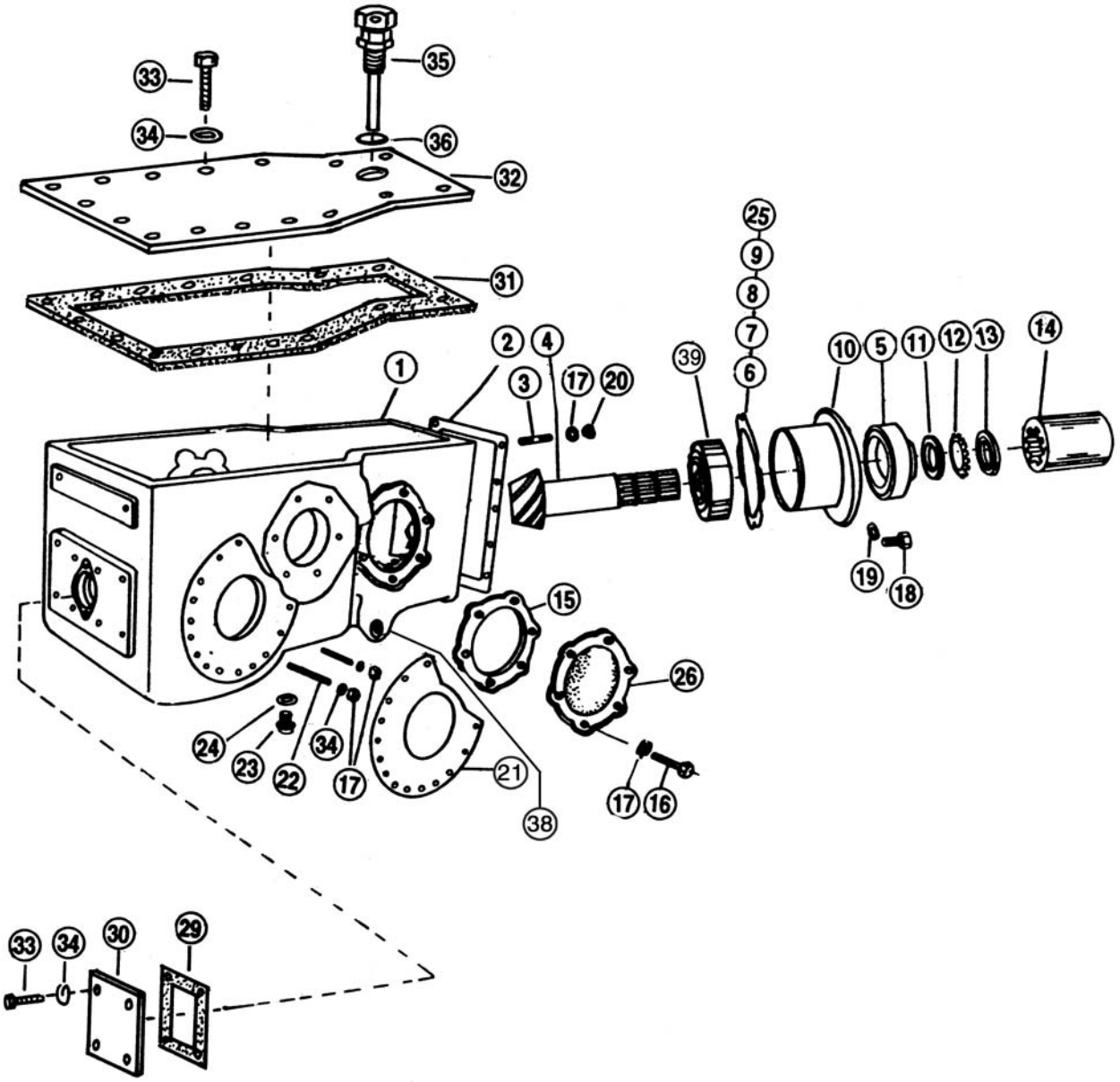

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FIGURE NO. 20

DIFFERENTIAL HOUSING ASSY.

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Diff. HSG.	ASDHA 0100	1	1
2.	Gasket Joint (D.H. & G.B.)	ASDHA 0200	1	1
3.	Stud	AGBH 1100	29	29
4.	Tail Pinion (NS) ★	ASDHA 0400	1	1
5.	T.R. Bearing	ASDHA 0500	1	1
6.	Shim (T. P. Carrier)	ASDHA 0600	5	5
7.	Shim (T. P. Carrier)	ASDHA 0700	5	5
8.	Shim (T. P. Carrier)	ASDHA 0800	5	5
9.	Shim (T. P. Carrier)	ASDHA 0900	5	5
10.	T. P. Carrier	ASDHA 1000	1	1
11.	Washer (Tail Pinion)	ASDHA 1100	1	1
12.	Locking Washer (Tail Pinion)	ASDHA 1200	1	1
13.	Withdrawl Nut (Tail Pinion)	ASDHA 1300	2	2
14.	Coupling Sleeve	ASDHA 1400	1	1
15.	Gasket (Differential Cover)	ASDHA 2800	1	1
16.	Hex Screw	ACHW 009	12	12
17.	Spring Washer	ACHW 0608	47	47
18.	Hex Screw	ACHW 0029	6	6
19.	Locking Washer (TP Carrier)	ASDHA 3600	6	6
20.	Hex Nut	ACHW 0557	39	39
21.	Gasket (Trump HSG)	ASDHA 3800	2	2
22.	Stud	ASDHA 3900	28	28
23.	Drain Plug Assy.	ASDHA 4000	2	2
24.	Alluminium Washer (Drain Plug)	ASDHA 4100	2	2
25.	Shim (TP Carrier)	ASDHA 4200	10	10
26.	Cover Plain	ASDHA 5100	2	2
29.	Gasket Rear Cover	ASDHA 1700 S	1	1
30.	Plate Rear Cover	ASDHA 1800 S	1	1
31.	Gasket Top Cover	ABDH 5000 S	1	1
32.	Top Cover Plate	AFDH 5100 SB	1	1
33.	Hex Bolt	ASDHA 3300	10	10
34.	Spring Washer	ASDHA 3400	10	10
35.	Dipstick	ASDHA 3500	1	1
36.	Copper Washer	ASDHA 3600	1	1
37.	Circlip 35A	ATSPTO 1400	1	1
38.	Nylon Bush	ASDHA 3800	1	1
39.	Bearing	ASDHA 3780	1	1
	Differential Housing Assy.	ABGBDHA 0200		
	Gear Box & Diff. Housing Assy.	ABGBDHA 000		
	Gear Box Complete	SGEAR BOX		

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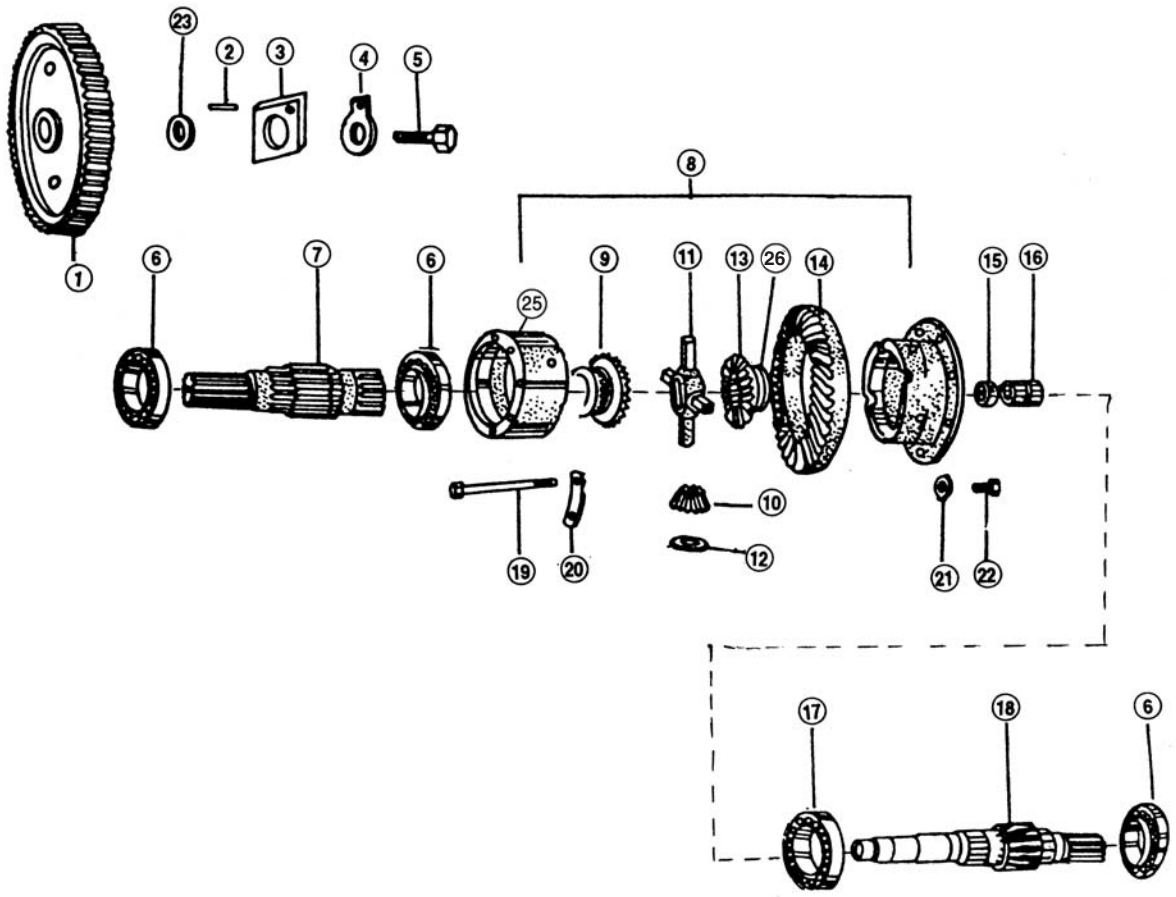
FIGURE NO. 21

DIFFERENTIAL UNIT



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Bull Gear	ASDU 0100	2	2
2.	Spring Dowel Sleeve	ASDU 0200	2	2
3.	Locking Plate	ASDU 0300	2	2
4.	Locking Washer (Bull Gear)	ASDU 0400	2	2
5.	Hex Screw	ASDU 0500	2	2
6.	Tapper Roller Bearing	ASDU 0600	3	3
7.	Bull Pinion Shaft (LHS)	ASDU 0700	1	1
8.	Cage Assy.	ASDU 0800	1	1
9.	Bevel Wheel LH ★	ASDU 0900	1	1
10.	Bevel Pinion ★	ASDU 1000	4	4
11.	Cross ★	ASDU 1100	1	1
12.	Thrust washer (Bevel Pinion) ★	ASDU 1200	4	4
13.	Bevel Wheel RH ★	ASDU 1300	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
14.	Crown Wheel (NS) ★	ASDU 1400	1	1
15.	Needle Bush	ASDU 1500	1	1
16.	Needle Cage	ASDU 1600	1	1
17.	Tapper Rolling Bearing	ASDU 1700	1	1
18.	Bull Pinion Shaft RHS	ASDU 1800	1	1
19.	Hex Bolt	ACHW 0023	8	8
20.	Locking Washer (Cage Assly)	ASDU 2000	4	4
21.	Locking Washer (Crown Wheel)	ASDU 2100	8	8
22.	Hex Screw 12x30	ACHW 0029	8	8
23.	Shim (Bull Gear)	ASDU 2300	2	2
24.	Crown Wheel Pinion Set	ASDU 2409	1	1
25.	Cage Housing	ASDU 2500	1	1
26.	Copper Washer ★	ASDU 2600	2	2
27.	Spider Kit (Item No. 9,10,11,12,13,26)	ASDU2709		

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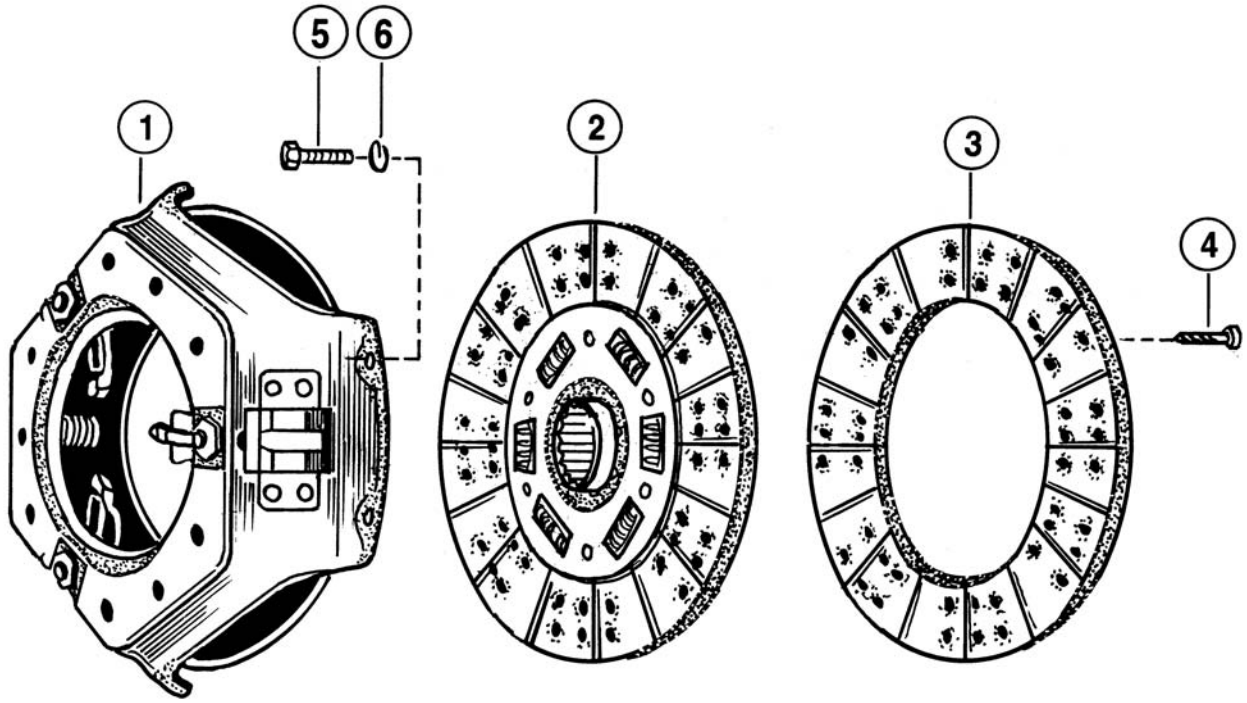
FIGURE NO. 22

CLUTCH



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Pressure Plate	ABECAD 0100S	1	1
2.	Reinforced Clutch Plate	ABECAD 0800N	1	1
3.	Facing 11" ★	ABC 2500S	2	2
4.	Hollow Rivet ★	ABC 2600S	48	48
5.	Hex Bolt M8X25	ACHW-0008	6	6
6.	Spring Washer M8	ACHW-0606	6	6

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FIGURE NO. 23

BRAKE COMPONENTS

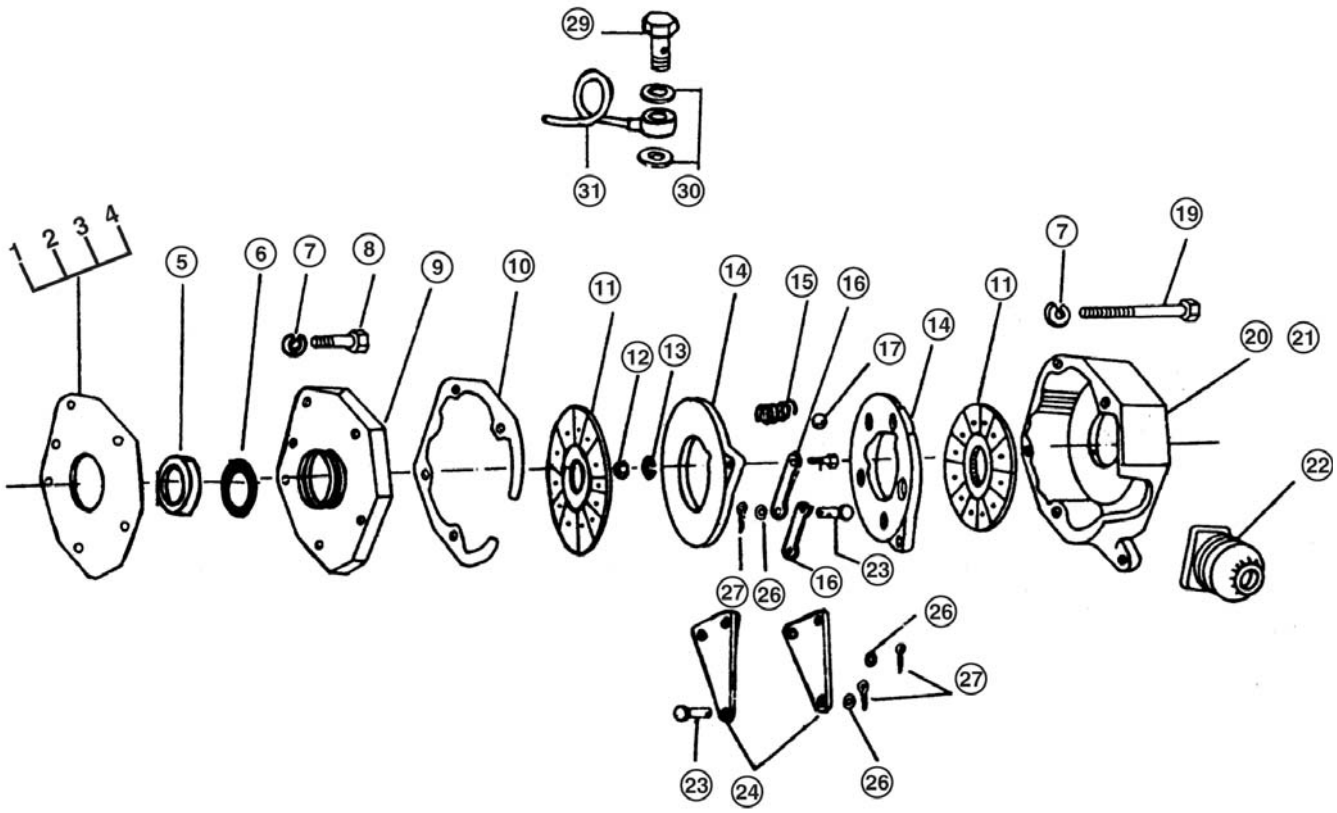

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FIGURE NO. 23

BRAKE COMPONENTS

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Shim - 0.2mm (Seal Carrier)	ASBC 0100	A/R	A/R
2.	Shim - 0.3mm (Seal Carrier)	ASBC 0200	A/R	A/R
3.	Shim - 0.4mm (Seal Carrier)	ASBC 0300	A/R	A/R
4.	Shim - 0.5mm (Seal Carrier)	ASBC 0400	A/R	A/R
5.	Oil Seal	ASBC 0500	2	2
6.	'O' Ring (Seal Carrier)	ASBC 0600	2	2
7.	Spring Washer	ACHW 0608	22	22
8.	Hex Screw	ACHW 0029	12	12
9.	Seal Carrier	ASBC 0900	2	2
10.	Gasket (Brake Hsg.)	ASBC 1000	2	2
11.	Brake Liner Assy.	ASBC 1100	4	4
12.	Hex Nut	ASBC 1200	4	4
13.	Spring Washer	ASBC 1300	4	4
14.	Brake Disc	ASBC 1400	4	4
15.	Brake Spring Steel	ASBC 1500	10	10
16.	Brake Link	ASBC 1600	4	4
17.	Steel Ball	ASBC 1700	10	10
18.	Special Bolt	ACHW 0010	4	4
19.	Bex Bolt	ACHW 0036	8	8
20.	Brake Housing Left	ASBC 2000	1	1
21.	Brake Housing Right	ASBC 2100	1	1
22.	Rubber Boot Brake	ASBC 2200	2	2
23.	Liver Pin	ASBC 2300	4	4
24.	Brake Lever	ASBC 2400	4	4
25.	Front Brake Actuator	ASBC 2500	2	2
26.	MCD Washer	ASBC 2600	6	6
27.	Split Cotter Pin	ASBC 2700	10	10
29.	Banjo Bolt (Vent Breather)	ASBC 2900	2	2
30.	Copper Washer (Vent Breather)	ASBC 3000	4	4
31.	Vent Breather	ASBC 3100	2	2
32.	Split Pin	ASBC 3200	6	6
33.	Pin Joint	ASBC 3300	2	2
34.	Rod Assy.	ASBC 3409	2	2
35.	Washer	ASBC 3500	4	4
36.	Rubber Boot	ABRAH 4400	2	2
37.	Slave Cylinder	ABSC A000	2	2
38.	Parking Brake Cover Assy.	ABRAH 3400	1	1
39.	Fork	ABRAH 3509	2	2
40.	Cable	ABRAH 3609	2	2
41.	Bracket LH & RH	AFRAH 4500S	1	1
42.	Bolt Hex M8x25	ACHW - 0008	4	4
43.	Bolt Hex M8x30	ACHW - 0009	4	4
44.	Spring Washer M8	ACHW - 0606	8	8

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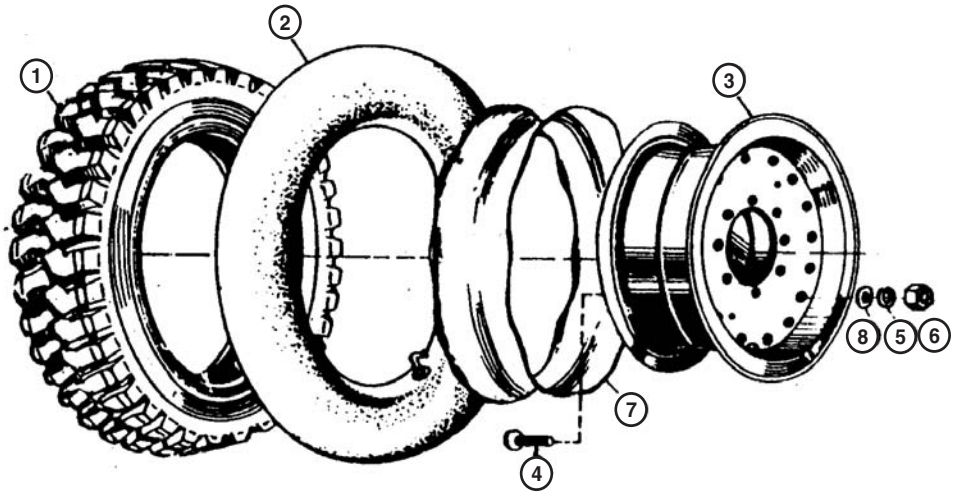
FIGURE NO. 24

REAR WHEEL ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Tyre	13x24 12 Ply	2	2
2.	Tube	13x24	2	2
3.	Rim	ABRWA0300A	2	2
4.	Bolt	ABRWA 0400	32	32

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
5.	Washer	ABRWA 0500	32	32
6.	Nut	ABRWA 0600	32	32
7.	Flap	ABRWA 0700	2	2
8.	Plain Washer	ABRWA 1000	32	32
	Rim Assy. (Item 3 to 6)	ABRWA 0309	2	2

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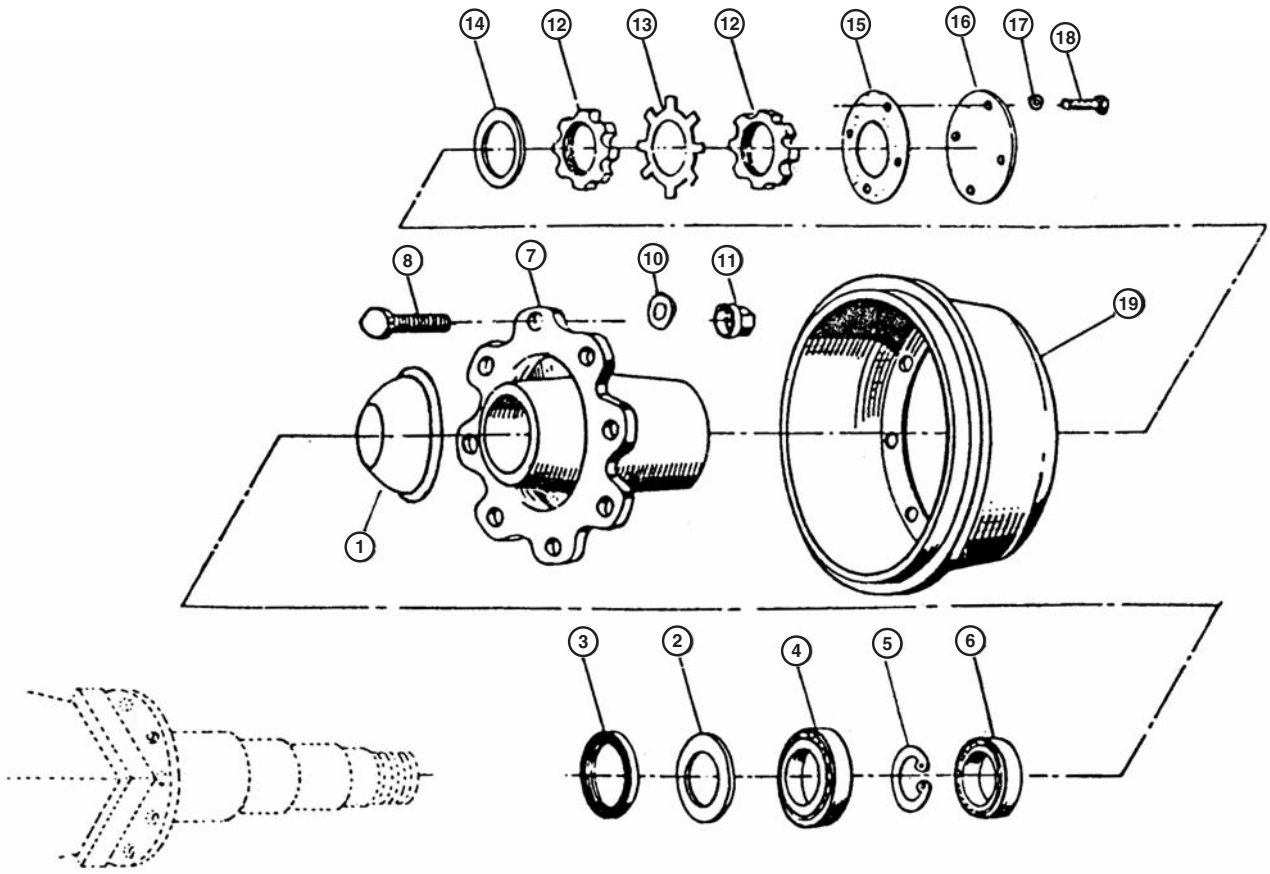
FIGURE NO. 25

FRONT AXLE HUB



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Oil Catcher	AH FAH 0100	2	2
2.	Spacer Ring	AH FAH 0200	2	2
3.	Oil Seal	AH FAH 0300	2	2
4.	Bearing Tapered Roller	AH FAH 0400	2	2
5.	Circlip	AH FAH 0500	2	2
6.	Bearing Tapered Roller	AH FAH 0600	2	2
7.	Hub	AH FAH 0700	2	2
8.	Wheel Mounting Bolt ★	AH FAH 0800	16	16
10.	Lock Washer	AH FAH 1000	16	16
11.	Flat Coller Nut ★	AM FAH 1100	16	16

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
12.	Grooved Nut	AM FAH 1200	4	4
13.	Locking Washer	AM FAH 1300	2	2
14.	Spacer	AM FAH 1400	2	2
15.	Gasket	AM FAH 1500	2	2
16.	Cover	AM FAH 1600	2	2
17.	Spring Washer	AM FAH 1700	8	8
18.	Screw	AM FAH 1800	8	8
19.	Brake Drum	AM FAH 1900	2	2
	Hub Bolt with Nut (Item No. 8 & 11)	AMFAH 1300	16	16
20.	Circlip			

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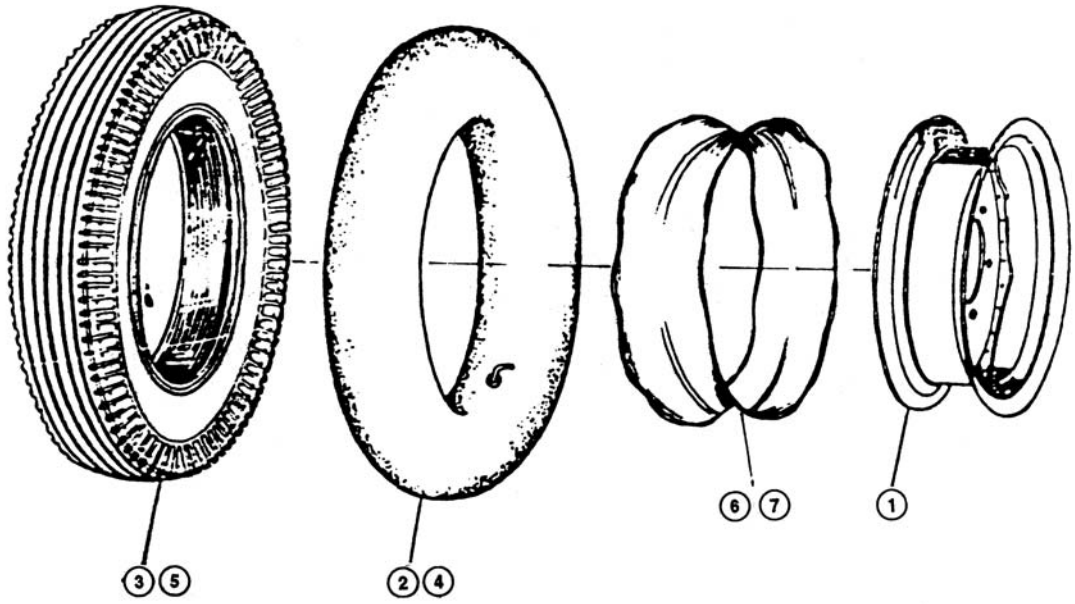
FIGURE NO. 26

FRONT WHEEL ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Wheel Rim	AB FWA 0100	4	4
2.	Tube 10.00 x 20	AB FWA 0200	—	—
3.	Tyre 10.00 x 20	AB FWA 0300	—	—
4.	Tube 11.00 x 20	AB FWA 0400	4	4
5.	Tyre 11.00 x 20	AB FWA 0500	4	4
6.	Flap 10.00 x 20	AB FWA 0600	—	—
7.	Flap 11.00 x 20	AB FWA 0700	4	4

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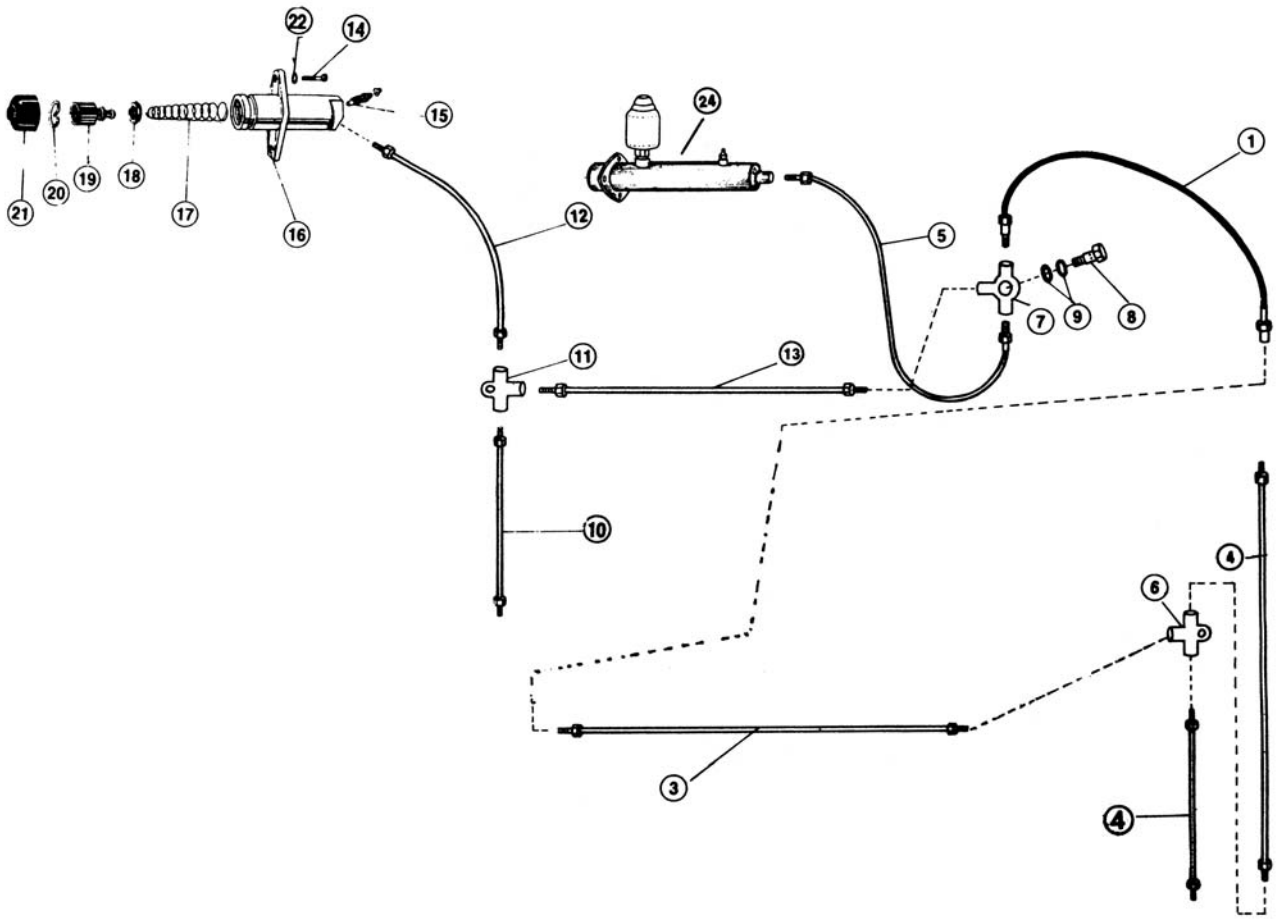
FIGURE NO. 27

FRONT BRAKE CIRCUIT DETAILS



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Hydraulic brake hose	APFBCD 0109	1	1
2.	Master cylinder	APFBCD0100A	1	1
3.	Bundy Tube	ATPBCDN0309	1	1
	Bundy Tube	ATPBCD0300B	—	—
4.	Bundy Tube	ATPBCD 0409	2	2
5.	Bundy Tube	ATPBCD 0509	1	1
6.	Distributor 'T'	ABFBCD 0600	1	1
7.	Distributor	ABFBCD 0700	1	1
8.	Banjo Bolt	ABFBCD 0800	1	1
9.	Washer	ABFBCD 0900	1	1
10.	Bundy Tube	ABBFBP 350	1	1
11.	Distributor 'T'	ATPBCD 1100	1	1
12.	Bundy Tube	ATPBCD 750	2	2
13.	Bundy Tube	ATPBCD 1350	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
14.	Hex Bolt M8X25	ACHW-0008	4	4
	Slave Cylinder Assy. Item No. 15 to 21	ABSCA 00	2	2
15.	Bleading Screw ★	ABSCA 1500	2	2
16.	Body ★	ABSCA 1600	2	2
17.	Spring ★	ABSCA 1700	2	2
18.	Seal ★	ABSCA 1800	2	2
19.	Piston ★	ABSCA 1900	2	2
20.	Circlip ★	ABSCA 2000	2	2
21.	Dust Cap ★	ABSCA 2100	2	2
22.	Washer	ABSCA 2300	4	4
23.	Slave Cylinder seal kit	ABSCA K00	—	—

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FIGURE NO. 28

PNEUMATIC BRAKE CIRCUIT

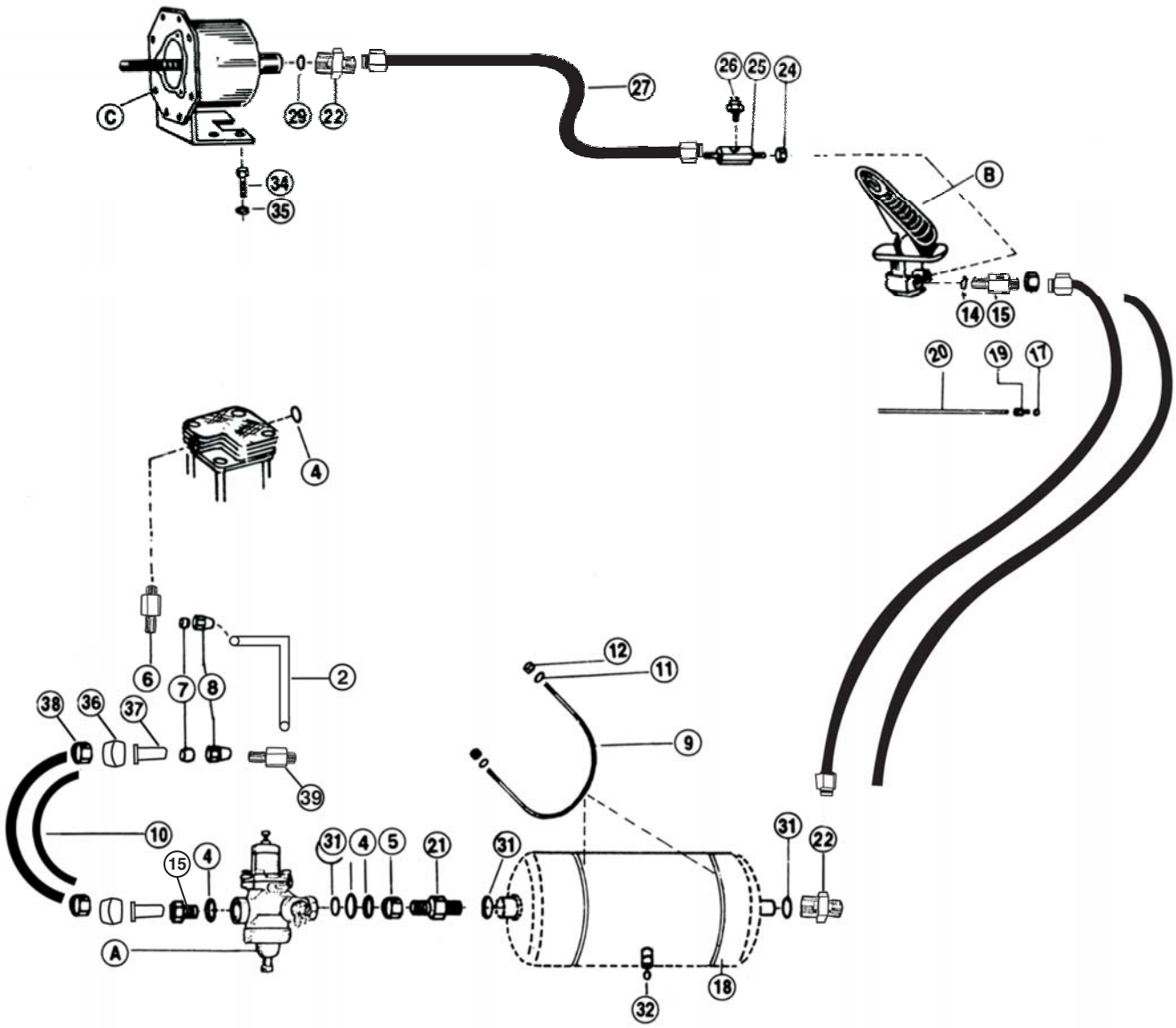

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FIGURE NO. 28

PNEUMATIC BRAKE CIRCUIT

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
2.	Tube, Tank Inlet	ABPBC 0209B	1	1
4.	Washer M22	AHPBC 0400	3	3
5.	Lock Nut M22	AMPBC 0500	1	1
7.	Sleeve 5/8”	AMPBC 0700	1	1
8.	Union Nut 5/8”	AMPBC 0800	1	1
9.	Tank Fixing Rod	AFPBC 0900	1	1
10.	PU Tube	ABPBC 1009	1	1
11.	Spring Washer	AHPBC 1100	4	4
12.	Nut	AHPBC 1200	4	4
13.	PU Tube Assy.	ABPBC 4109	1	1
14.	Washer	AHPBC 1400	1	1
15.	Adopter	AMPBC 1509	1	1
17.	Sleeve 3/16”	ABPBC 1700	1	1
18.	Reservior Assy.	ABPBC 1810	1	1
19.	Nut 3/16”	ABPBC 1900	1	1
20.	Tube, Air Press Gauge	ABPBC 2000	1	1
21.	Double Socket	AMPBC 2100	1	1
22.	Adopter	AMPBC 2209	2	2
24.	Lock Nut M16 X 1.5	M16 X 1.5	2	2
25.	Adapter	AMPBC 2509	1	1
26.	Brake Switch	ABPBC 2600	1	1
27.	PU Tube Assy.	APPBC 2709	1	1
31.	Sealing ‘O’ Ring	ABPBC 3100	3	3
A	Unloader Valve	ABBV A000	1	1
B	Brake Valve Complete	ABBV 000	1	1
C	Air Cylinder Assy.	ABAC 000	1	1
32.	Drain Cover	ABAPBC 3200	1	1
34.	Bolt	ABAPBC 3400	4	4
35.	Spring Washer	ABAPBC 3500	4	4
36.	Ferrule	ABPBC 3609	6	6
37.	Insert	ABPBC 3709	6	6
38.	Nut ★ Not Serviced Separately	ABPBC 3809	6	6
39.	Adopter ★ Not Serviced Separately	AMPBC 3909	1	1

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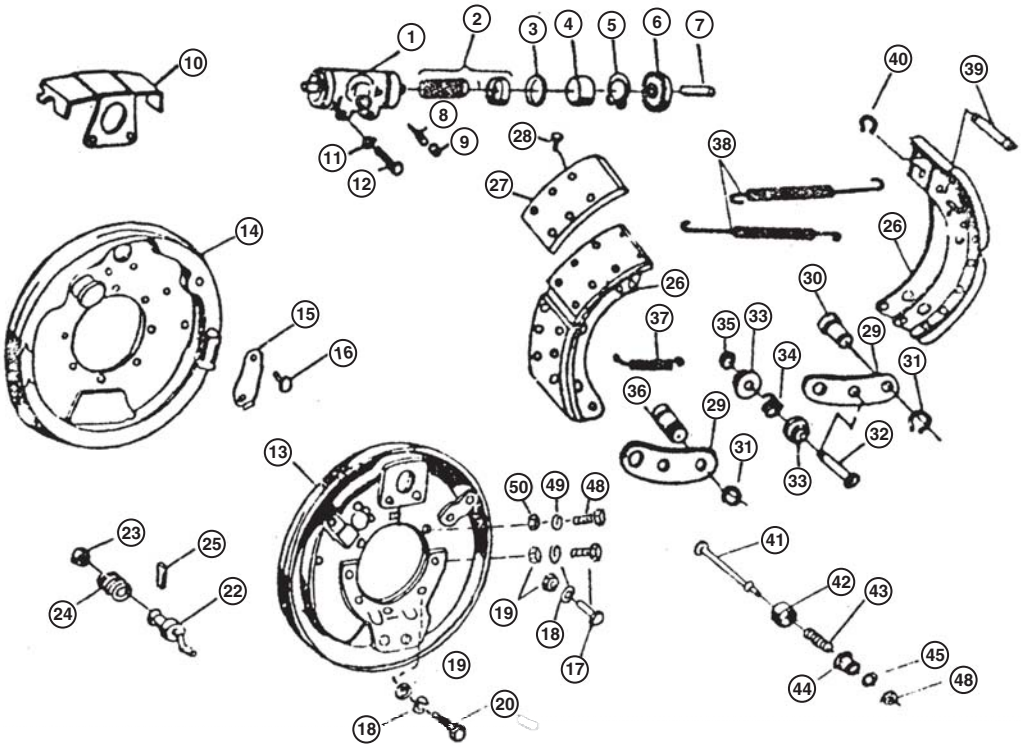
FIGURE NO. 29

FRONT WHEEL BRAKE ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY. 12XW	QTY. 14XW
1.	Wheel Brake Cylinder	ABFWBA 0100	2	2
2.	Pressure Spring with Retainer	ABFWBA 0200	2	2
3.	Piston Cap	ABFWBA 0300	4	4
4.	Piston	ABFWBA 0400	4	4
5.	Circlip	ABFWBA 0500	4	4
6.	Boot	ABFWBA 0600	4	4
7.	Slotted Pin	ABFWBA 0700	4	4
8.	Bleeding Screw	ABFWBA 0800	2	2
9.	Dust Cap	ABFWBA 0900	2	2
10.	Dust Shield	ABFWBA 1000	2	2
11.	Spring Washer	ABFWBA 1100	4	4
12.	Screw	ABFWBA 1200	4	4
13.	Anchor Plate RH	ABFWBA 1300	1	1
14.	Anchor Plate LH	ABFWBA 1400	1	1
15.	Flap	ABFWBA 1500	4	4
16.	Bottom Hed Rivet	ABFWBA 1600	4	4
17.	Bolt	ABFWBA 1700	6	6
18.	Spring Washer M16	ACHW-0610	4	4
19.	Nut	HN. 5/8"	4	4
20.	Bolt	5/8" X2 UNF	4	4
22.	Adjusting Eccentric with Hex Nut	ABFWBA 2200	4	4
23.	Nut M14x1.5"	ABFWBA 2300	4	4
24.	Pressure Spring	ABFWBA 2400	4	4
25.	Tappered Grooved Pin	ABFWBA 2500	4	4
26.	Brake Shoe Front & Rear with Lining	ABFWBA 2600	4	4
27.	Brake Lining	ABFWBA 2700	8	8

ITEM NO.	DESCRIPTION	PART NO.	QTY. 12XW	QTY. 14XW
28.	Tubular Rivet (For Brake Shoe)	ABFWBA 2800	32	32
29.	Shackle	ABFWBA 2900	8	8
30.	Pin	ABFWBA 3000	4	4
31.	Circlip	ABFWBA 3100	12	12
32.	Special Pin	ABFWBA 3200	4	4
33.	Spacer Washer	ABFWBA 3300	8	8
34.	Pressure Spring	ABFWBA 3400	4	4
35.	Lock Ring	ABFWBA 3500	4	4
36.	Pin	ABFWBA 3600	4	4
37.	Return Spring (To Front Brake Shoe)	ABFWBA 3700	2	2
38.	Return Spring (Between Brake Shoes)	ABFWBA 3800	4	4
39.	Pin	ABFWBA 3900	4	4
40.	Circlip	ABFWBA 4000	4	4
41.	Bolt ★	ABFWBA 4100	4	4
42.	Spring Retainer Flat ★	ABFWBA 4200	4	4
43.	Pressure Spring ★	ABFWBA 4300	4	4
44.	Spring Retainer ★	ABFWBA 4400	4	4
45.	Spring Washer ★	ABFWBA 4500	4	4
46.	Nut ★	ABFWBA 4600	4	4
47.	Hex Bolt	HB.½"x2"UNF	4	4
48.	Hex Bolt	HB.½"x¼"UNF	4	4
49.	Spring Washer M12	ACHW-0608	4	4
50.	Hex Nut	HN. ½"	4	4
51.	Kit Anchor Plate (Item No. 41 & 46)	ABFWBA 5100	1	1
	Wheel Cylinder Repair Kit	ABFBC 00a	2	2
	Front Wheel Brake Assy.	ABFBA 00	2	2

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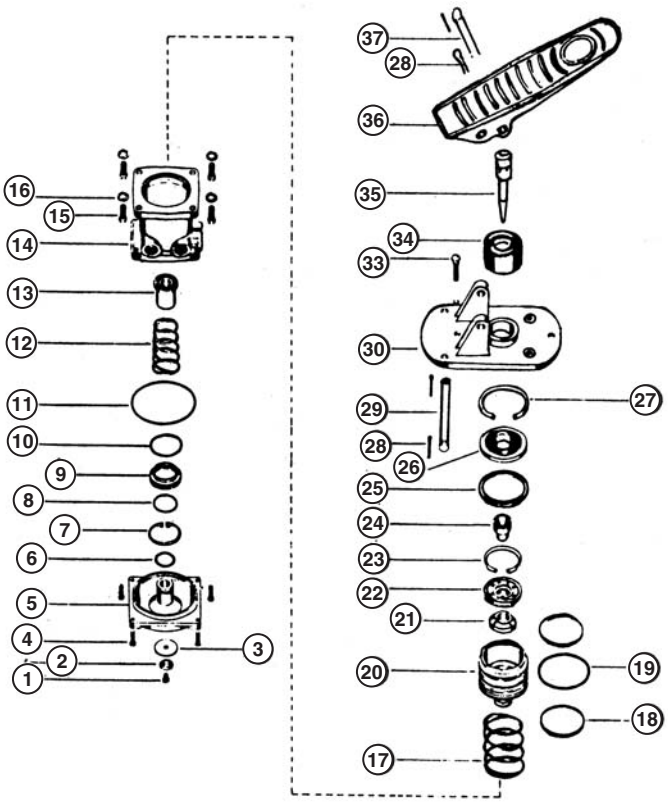
FIGURE NO. 30

BRAKE VALVE



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Self Taping Screw ★	ABBV 0100	1	1
2.	Exhaust Cover ★	ABBV 0200	1	1
3.	Diaphragm ★	ABBV 0300	1	1
4.	Screw ★	ABBV 0400	4	4
5.	Base Cover ★	ABBV 0500	1	1
6.	'O' Ring ★	ABBV 0600	1	1
7.	Internal Circlip ★	ABBV 0700	1	1
8.	'O' Ring ★	ABBV 0800	1	1
9.	Ring Spacer ★	ABBV 0900	1	1
10.	'O' Ring ★	ABBV 1000	1	1
11.	'O' Ring ★	ABBV 1100	1	1
12.	Conical Spring ★	ABBV 1200	1	1
13.	Valve ★	ABBV 1300	1	1
14.	Valve Body ★	ABBV 1400	1	1
15.	Screw ★	ABBV 1500	4	4
16.	Spring Washer ★	ABBV 1600	4	4
17.	Spring ★	ABBV 1700	1	1
18.	Guide Ring ★	ABBV 1800	2	2
19.	'O' Ring ★	ABBV 1900	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
20.	Piston ★	ABBV 2000	1	1
21.	Rubberspring	ABBV 2100	1	1
22.	Spring Seal ★	ABBV 2200	1	1
23.	Internal Circlip ★	ABBV 2300	1	1
24.	Stem ★	ABBV 2400	1	1
25.	Split Pin ★	ABBV 2500	1	1
26.	Boot ★	ABBV 2600	1	1
27.	Internal Circlip ★	ABBV 2700	1	1
28.	Split Pin ★	ABBV 2800		
29.	Pin ★	ABBV 2900	1	1
30.	Pedal bracket	ABBV 3000	1	1
33.	Bolt ★	ABBV 3300	4	4
34.	Rubber boot ★	ABBV 3400	1	1
35.	Pushrod ★	ABBV 3500	1	1
36.	Pedal ★	ABBV 3600	1	1
37.	Pin ★	ABBV 3700	1	1
	Repair Kit for Brake Valve	ABBVRK00	1	1
A	Brake Valve complete (item no. 1-37)	ABBV 000	1	1

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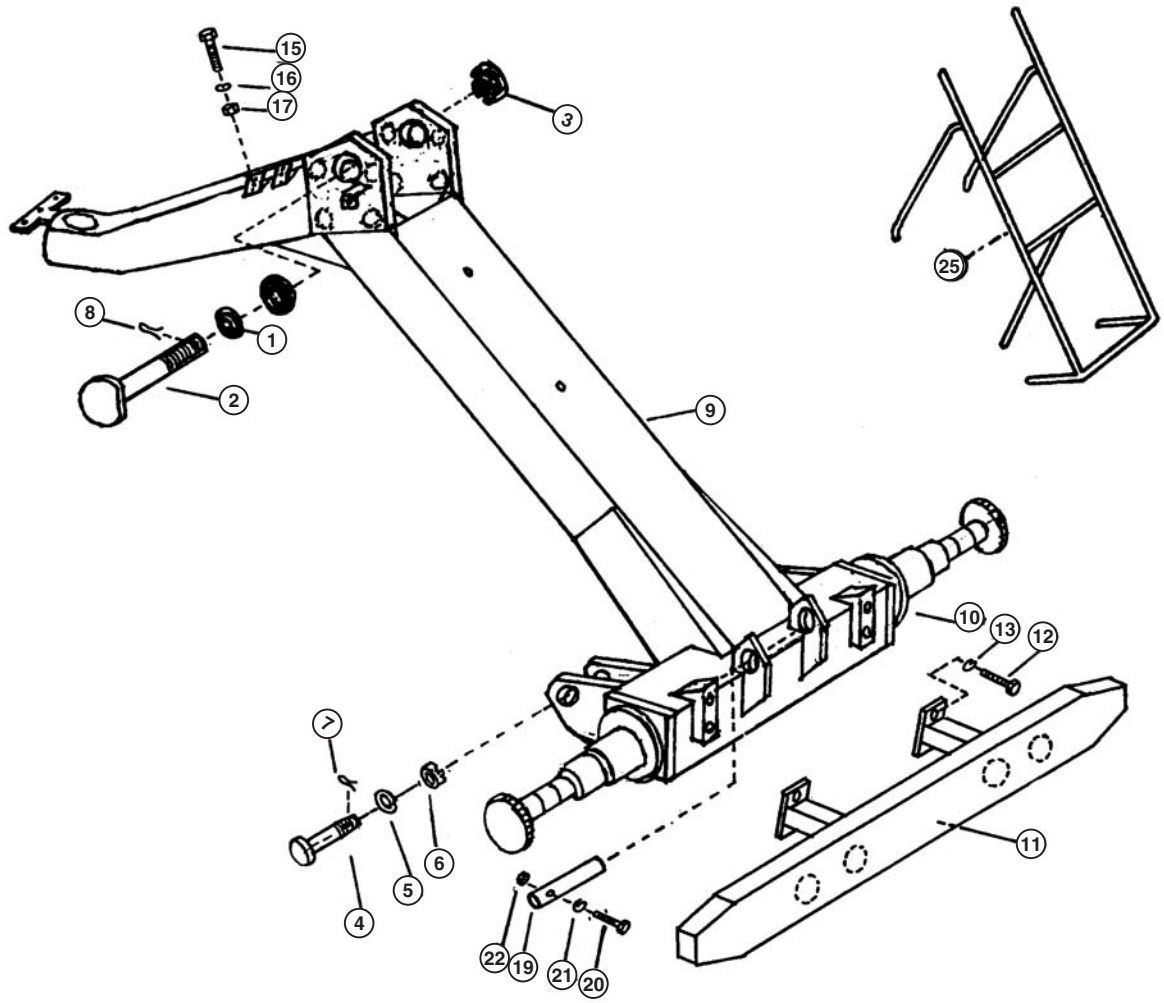
FIGURE NO. 31

MAIN FRAME AXLE ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Boom pin pivot	AFMFA 0212	1	1
2.	Washer	AFMFA 0312	1	1
3.	Castle Nut	AFMFA 0415	1	1
4.	Pin Front Asle	AFMFA 0500A	2	2
5.	Washer	AFMFA 0600	2	2
6.	Nut	ABMFA 0700	2	2
7.	Split Pin	ABMFA 0800	2	2
8.	Split Pin	ABMFA 0900	1	1
9.	Goose Neck Assy.	AFMFAS 1012	1	1
10.	Front Axle Assy.	AFMFA 1109C	1	1
11.	Bumper	AFMFA 1409	1	1
12.	Hex Bolt	ACHW - 0050	4	4
13.	Spring Washer	ACHW - 0610	4	4

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
15.	Hex Bolt	ACHW - 0056	4	4
16.	Spring Washer	ACHW - 0611	4	4
17.	Hex Nut	ACHW - 0560	4	4
18.	Adaptor	AMMFA 1900	1	1
19.	Pin Lift Jack	AMBAM 1200A	2	2
20.	Hex Bolt	ACHW - 0036	2	2
21.	Spring Washer	ACHW - 0608	2	2
22.	Hex Nut	ACHW - 0557	2	2
25.	Jack Grand Assy.	AFMFA 1212	1	1
	Main Frame Axle Assy. (Item no. 9&10)	AFMFAS 0112	1	1

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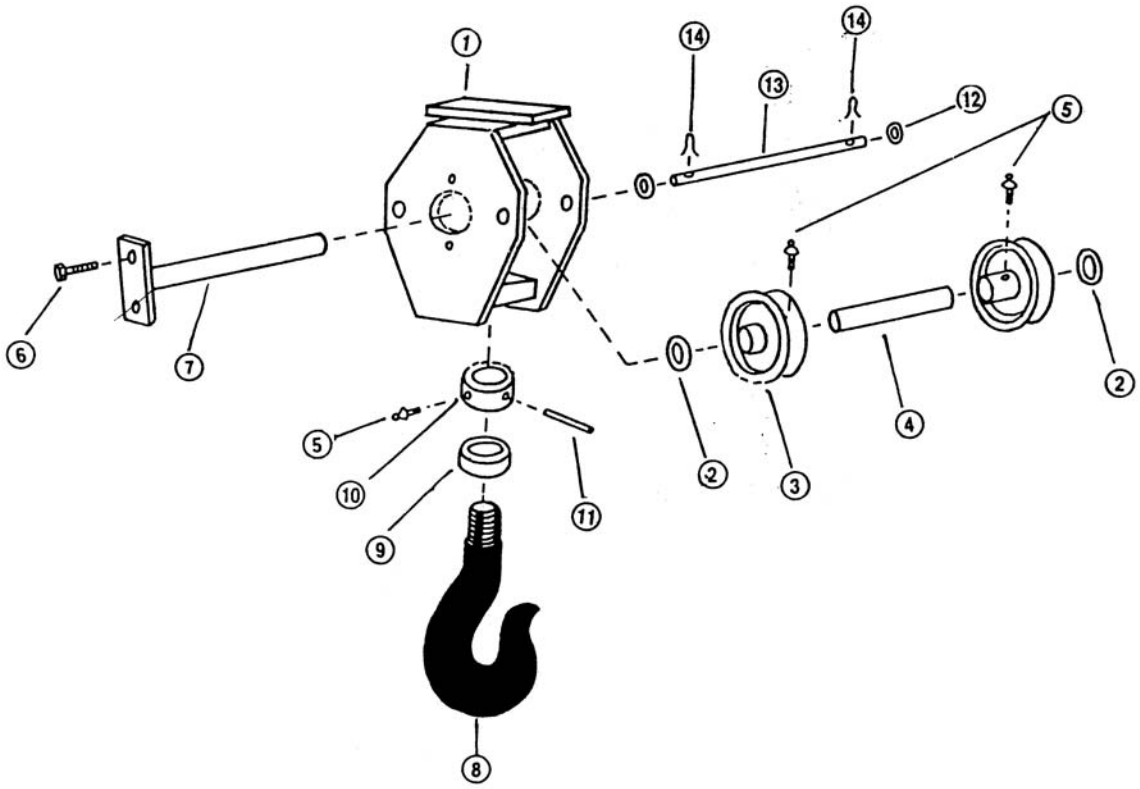
FIGURE NO. 32

PULLEY BLOCK ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Plate Assy.	AFPBA 0100B	1	1
2.	Spacing Washer	AMPBA 0200	2	2
3.	Pulley	AMPBA 0300	2	2
4.	Spacer	AMPBA 0409	1	1
5.	Grease Nipple	AHPBA 0500	3	3
6.	Hex Bolt	AHPBA 0609	2	2
7.	Pin	AMPBA 0809	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
8.	Hook (5T)	AMPBA 1100	1	1
9.	Thrust Brg	ABPBA 1300	1	1
10.	Hook Nut	AMPBA 1400	1	1
11.	Spring Dowell	AMPBA 1500	1	1
12.	Washer	AHPBA 2000	8	8
13.	Rod	AMPBA 2300A	2	2
14.	Split Pin	AHPBA 2400A	4	4
15.	Pulley Block Assy.	AMPBA 0000AS	1	1
	Pulley Block Assy. (6 Fall)	AMPBA 00012	1	1

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FIGURE NO. 33

CHASSIS AND WEIGHT BOX ASSY.

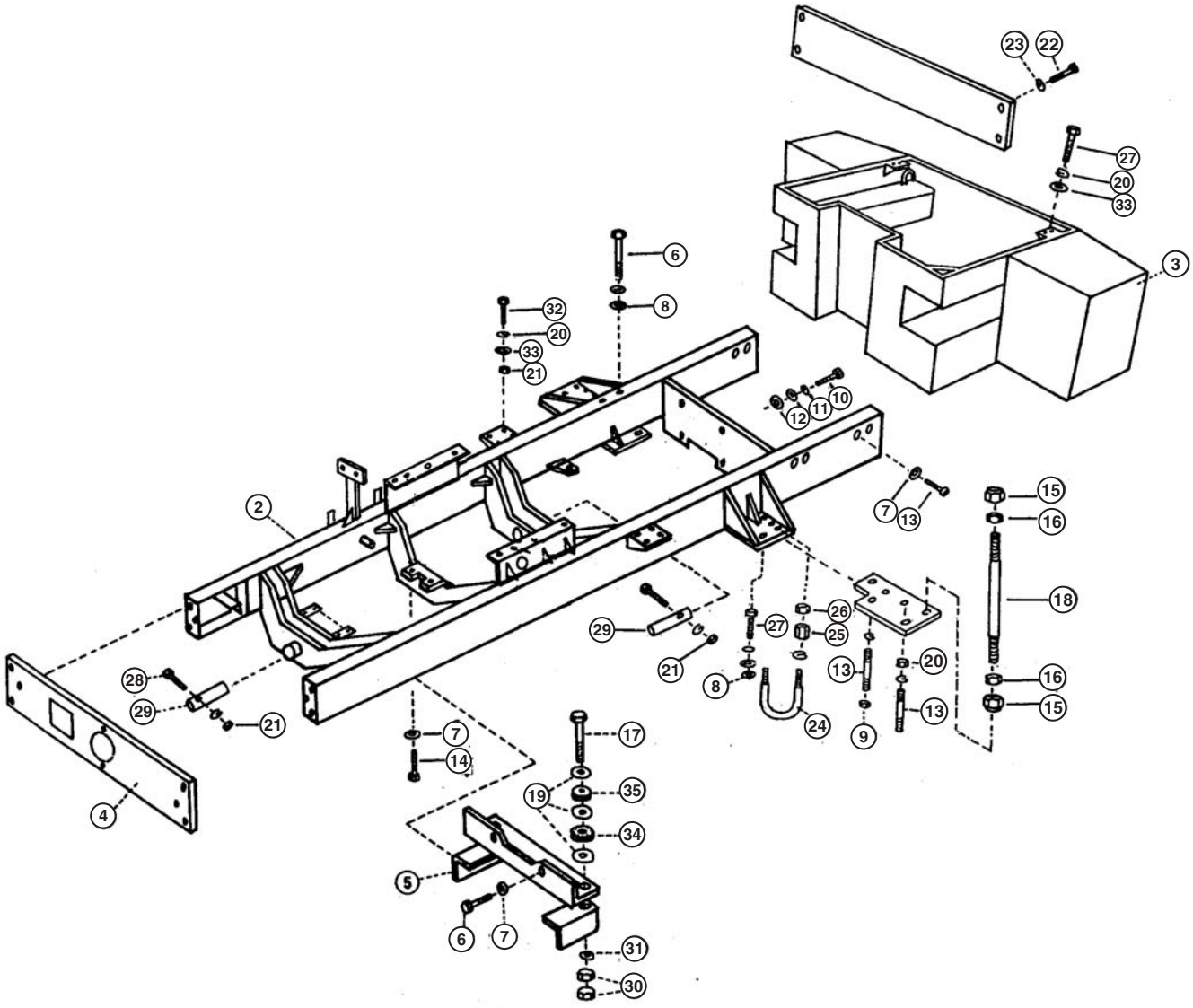

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FIGURE NO. 33

CHASSIS AND WEIGHT BOX ASSY.

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Chassis with Weight Box Weldment Assy. (Item 2 & 3)	AFCWA 0412	1	1
2.	Chassis Weldment Assy.	AFCWA 0212	1	1
3.	Weight Weldment Assy.	AFCWA 0512	1	1
4.	Pump Mtg. Bracket	AFCWA 0312	1	1
5.	Engine Mtg. Bracket	AFCWA 0612	1	1
6.	Hex Bolt	HB 16 x 1.5 x 200	4	4
7.	Spring Washer	ACHW - 0610	18	18
8.	Plain Washer	ACHW - 0508	6	6
9.	Hex Nut	ACHW - 0559	4	4
10.	Hex Bolt	ACHW - 0097	6	6
11.	Spring Washer	ACHW - 0609	6	6
12.	Plain Washer	ACHW - 0509	6	6
13.	Hex Bolt	ACHW - 0052	8	8
14.	Hex Bolt	ACHW - 0044	4	4
15.	Nyloc Nut	ACHW - 0807	12	12
16.	Hex Nut	ACHW - 0561	12	12
17.	Hex Bolt	ACHW - 0036	2	2
18.	Stud	ABCWA 1200	6	6
19.	Special Washer	ABCWA 1909	2	2
20.	Spring Washer	ACHW - 0608	36	36
21.	Hex Nut	ACHW - 0557	20	20
22.	Hex Bolt	HM M18 x 40	4	4
23.	Plain Washer	ACHW - 0611	4	4
24.	U-Bolt	ABCWA 0900	2	2
25.	Nut	ABCWA 2700	4	4
26.	Hex Lock Nut	ACHW - 0652	4	4
27.	Hex Bolt	ACHW - 0029	4	4
28.	Hex Bolt	ACHW - 0090	10	10
29.	Pin	AMLSAB 1000	2	2
30.	Hex Nut	ACHW - 0557	4	4
31.	Plain Washer	ACHW - 0509	4	4
32.	Hex Bolt	ACHW - 0032	12	12
33.	Plain Washer	ACHW - 0506	12	12
34.	Engine Mtg. Rubber Pad	APCSA 1409	2	2
35.	Rubber Pad	ACCR - 0031C	2	2

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FIGURE NO. 34

LOWER STRUCTURAL ASSY.

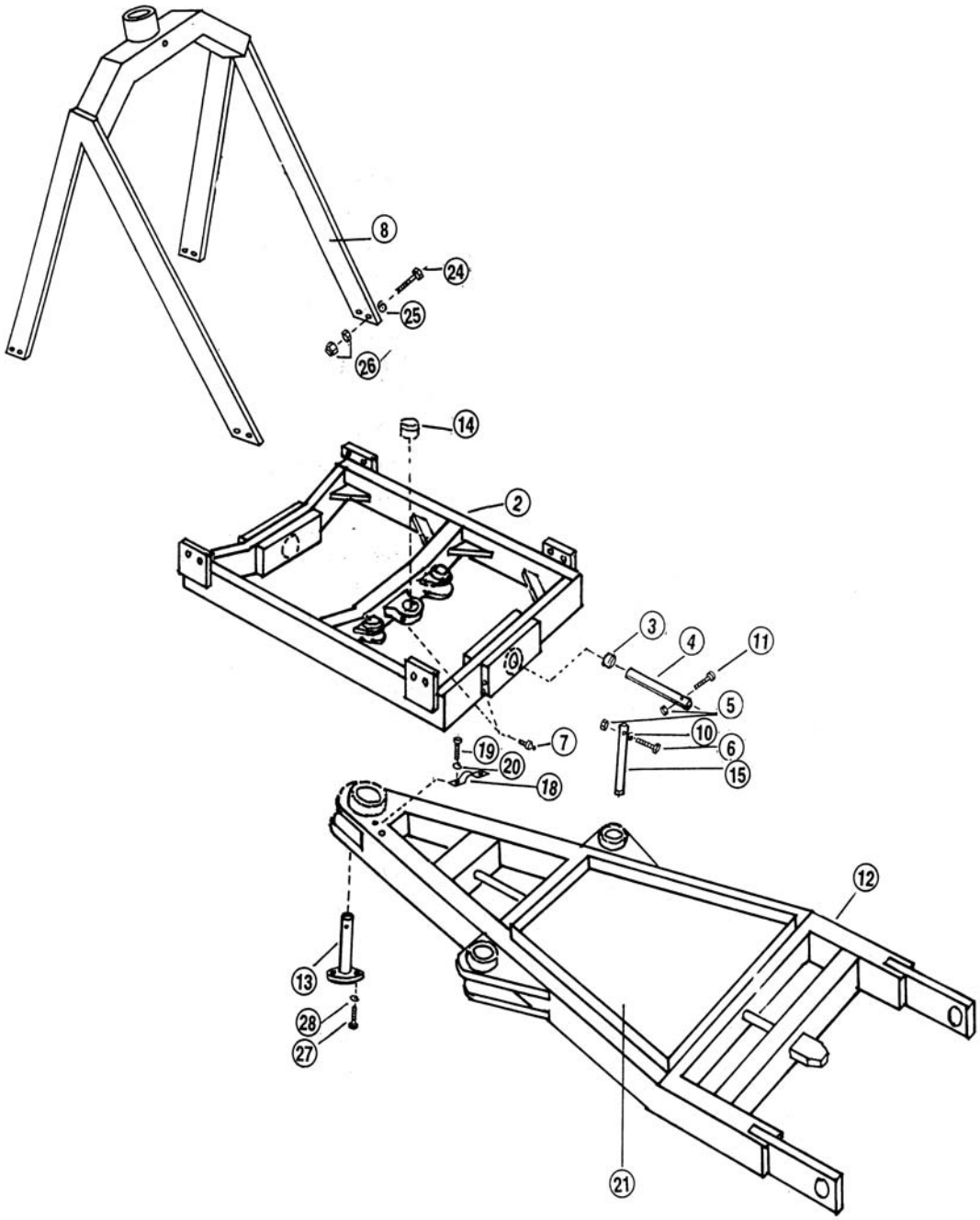

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FIGURE NO. 34

LOWER STRUCTURAL ASSY.

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Cradle Assy.	AFLSAB 0412A	1	1
2.	Yoke Assy.	AFLSAB 1412	1	1
3.	Bush	AMLSAB 2109	1	1
4.	Pin	AMLSAB 2700	2	2
5.	Thrust Washer	AMLSAB 2600	2	2
6.	Bush	AMLSAB 0900	2	2
7.	Pin	AMLSAB 1000	2	2
8.	Hex Bolt	ACHW - 0036	2	2
9.	Spring Washer	ACHW - 0608	2	2
10.	Hex Nut	ACHW - 0557	4	4
11.	Hex Bolt	ACHW - 0052	8	8
12.	Spring Washer	ACHW - 0610	8	8
13.	Hex Nut	ACHW - 0559	16	16
14.	Pin Stg. Jack	AMLSAB 2509	2	2
15.	A Frame Assy.	AFLSAB 1812	1	1
16.	A Frame Pin	AMLSAB 1909	1	1
17.	Spring Washer	ACHW - 0607	2	2
18.	Hex Bolt	ACHW - 0016	2	2
19.	Hex Bolt	ACHW - 0034	2	2
	Cradle Yoke Assy. (Item No. 1 & 2)	AFLSAB 4012A		

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FIGURE NO. 35

HYDRAULIC CIRCUIT LIFT & EXTENSION

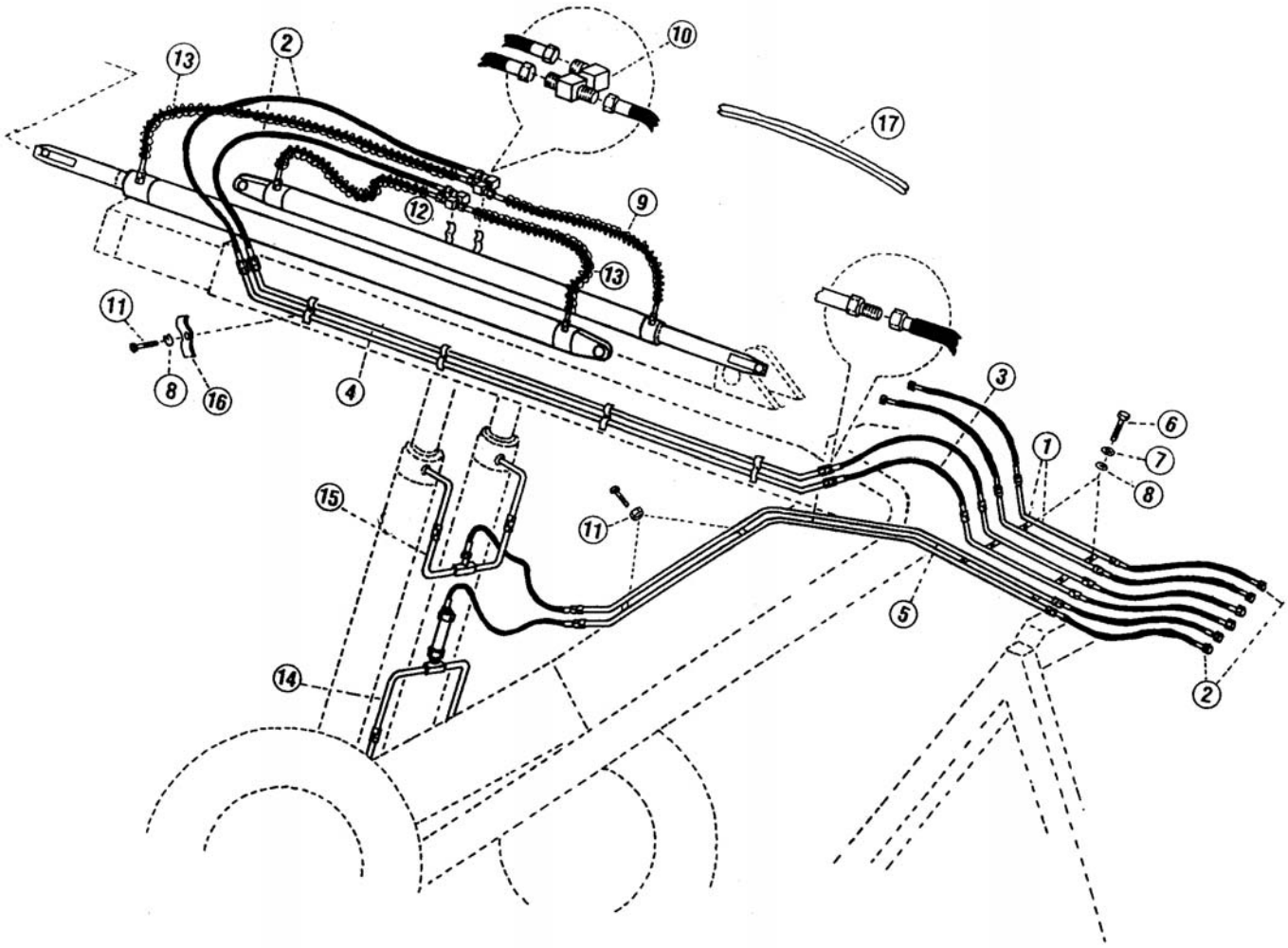

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FIGURE NO. 35

HYDRAULIC CIRCUIT LIFT & EXTENSION

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Tube Assy. Set	ABHCLE5209	2	2
2.	H.P. Hose	APHCW0112	6	6
2**	H.P. Hose	APHCW0112	2	-
2**	H.P. Hose	APHCW0109C	-	2
3.	H.P. Hose	APHCLE1510A	4	4
4.	Tube Assy.	AFWEW0112A	2	2
5.	Tube Assy. Set	ABHCLE5212	1	1
6.	Hex Bolt	ACHW-0007	10	10
7.	Spring Washer	ACHW-0606	12	12
8.	Plain Washer	ACHW-0504	6	6
9.	H.P. Hose	APHCW0109C	2	2
10.	H.P. Hose	APHCN0500	2	2
11.	Hex Nut	ACHW-0009	2	2
12.	Extension Cylinder	ABHCLEC3P23B	1	2
13.	Extension Cylinder	ABHCLEC003PA	1	-
14.	U' Tube Lower	ABHCLE0909	1	1
15.	U' Tube Upper	ABHCLE1412	1	1
16.	Clamp	ABHCLE0600	4	4
17.	H.P. Hose	APHCLE0820A	2	2
18.	H.P. Hose	APHCLE0700A	4	4
19.	Pin	AMBAM3-3912	1	1
20.	Bearing	ACCMI-0381TT	1	1
21.	Pulley	PU6205Z90(H)	1	1
22.	Spacer	AMBAM3-3712	1	1
23.	Locking Pin	ACHW-0491	1	1
24.	PVC Pipe (Flap)	ACCMI-3337	3 Mtrs.	3.5 Mtrs.

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FIGURE NO. 36

BOOM & SLIDER ASSY.

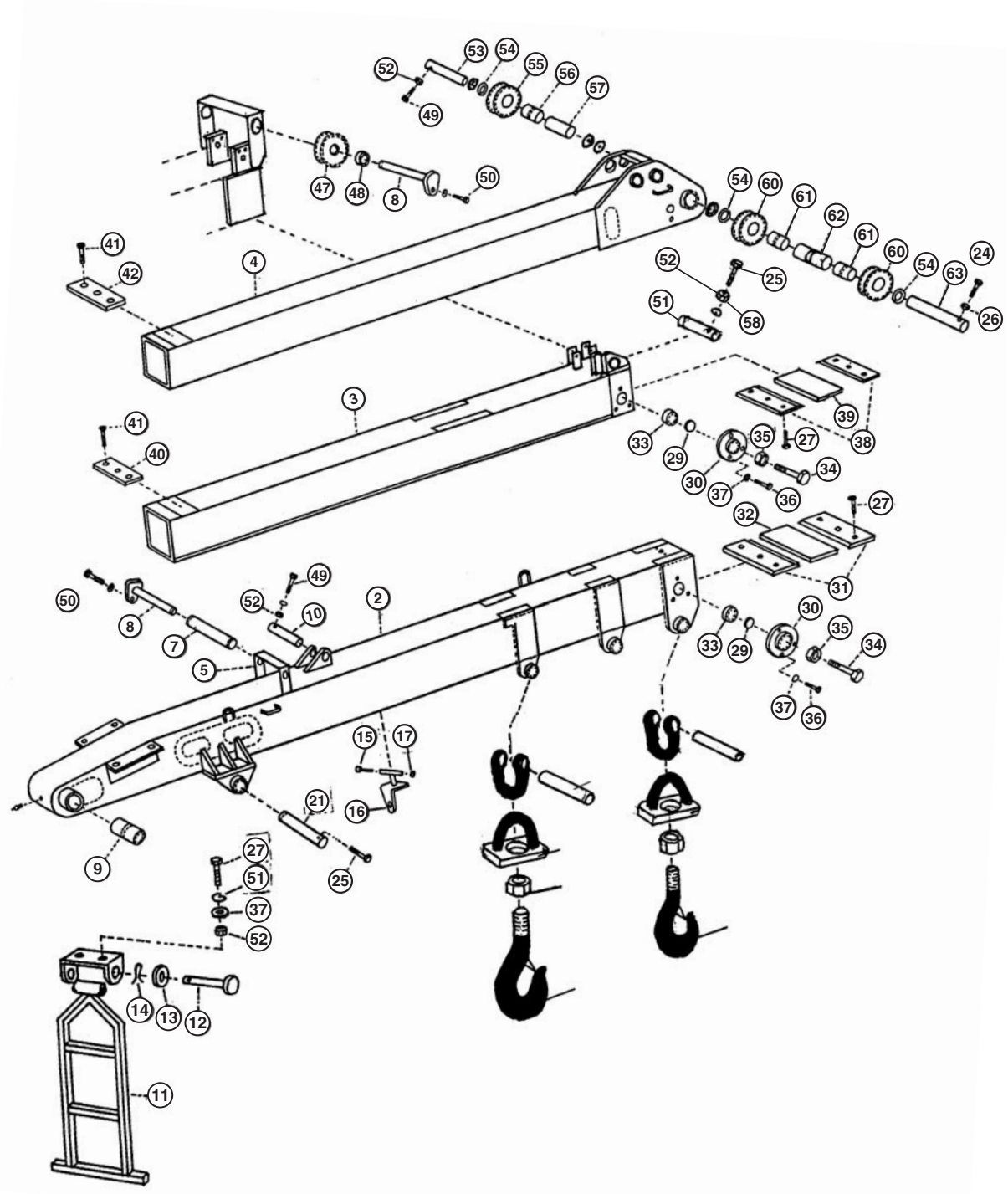

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FIGURE NO. 36

BOOM & SLIDER ASSY.

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Boom & Extension Assy.	AFBAM3-0112A	1	-
1.	Boom & Extension Assy.	AFBAM3PCLS-0112	-	1
2.	Boom Assy.	AFBAM3-0212A	1	-
2.	Boom Assy.	AFBAM3PCLS-0212	-	1
3.	Extension Assy. - First	AFBAM3-0312A	1	1
4.	Extension Assy. - Second	AFBAM3-0412	1	-
4.	Extension Assy.- Second	AFBAM3PCLS-0412	-	1
5.	Rooler Bracket	AFBAM3-0512	1	1
6.	Pulley Bracket	AFBAM3-0612A	-	-
7.	Rooler	AFBAM3-0712	1	1
8.	Pin Roller Bracket	AFBAM3-0812	-	-
9.	Nylon Bush	AFBAM0212A	2	2
10.	Jack Mounting Pin	AMBAM3-1112	1	1
11.	T-Handle Assy.	AFBAM1100B	1	1
12.	T-Handle Pin	AFBSA3200	1	1
13.	Spacer	AHBSA3000	1	1
14.	Circlip	AHBSA1700	1	1
15.	Hex Bolt	ABBAM1500	1	1
16.	Bracket Spot Light	AFBSA4100	1	1
17.	Hex Nut	ABBAM1700	1	1
18.	Hook 12T	AFBSA3412B	1	1
19.	Hook Nut	AMBAM1912	1	1
20.	Shackle 12T	AFBSA3912	2	2
21.	Pin	AMBAM2112B	1	1
22.	Hook	AFBSA3400B	1	-
23.	Swil 12T	AFBAM3912	1	1
23	Swil 8T	AFBAM3908	1	1
24.	Pin	AMBAM2100	1	1
25.	Hex Bolt	ACHW-0036	5	5
26.	Hex Nut	ACHW-0557	5	5
27.	Hex Bolt	ACHW-0018	14	14
28.	Hook Nut	AMBAM1900	1	1
29.	Pad Spacer	AFBAMC2900	4	4
30.	Side Pad	AFBAM2813	4	4
31.	Stopper Plate	AMBAM3-3017	2	2
32.	Nylon Pad	ANBAM3-3117	1	1
33.	Round Nylon Pad	ANBAM4513	4	4
34.	Hex Bolt	ACHW-0048	4	4
35.	Hex Nut	ACHW-0559	4	4
36.	Hex Bolt	ACHW-0016	12	12
37.	Washer	ACHW-0505	14	14
38.	Stopper Plate	AMBAM3014	2	2
39.	Nylon Pad	AMBAM3115	1	1
40.	Nylon Pad	ANBAM3-3112	1	1
41.	Screw	ABBAM4000	6	6
42.	Nylon Pad	ANBAM3114	1	1
43.	Hook Assy. (Item No. 18, 19 & 23)	AFBSA2412SS	1	1
44.	Hook Assy. (Item No. 22, 23 & 28)	AMBSA3400SS	1	1
47.	Pulley	PU6205Z90(H)	1	1
48.	Bearing	ACCMI-0281TT	1	1
49.	Hex Bolt	ACHW - 0021	2	2
50.	Hex Bolt	ACHW - 0008	2	2
51.	Spring Washer	ACHW - 0607	2	2
52.	Hex Bolt	ACHW - 0556	4	4
53.	Pin	AMBAM3-3312	1	1
54.	Spcer	AMBAM3-3712	3	3
55.	Pulley	AMBSA4712	1	1
56.	Bush	AMBSA2012	1	1
57.	Long Spacer	AMBAM3-3812	1	1
58.	Pin	V3A (AMBAM3900)	1	1
60.	Pulley	AMBSA4700	2	2
61.	Bush	AMBSA2000	2	2
62.	Spacer	AMBAM3812	2	2
63.	Pin	AMBAM3300	1	1

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FIGURE NO. 37

HYDRAULIC OIL RESERVOIR AND FILTER ASSY.

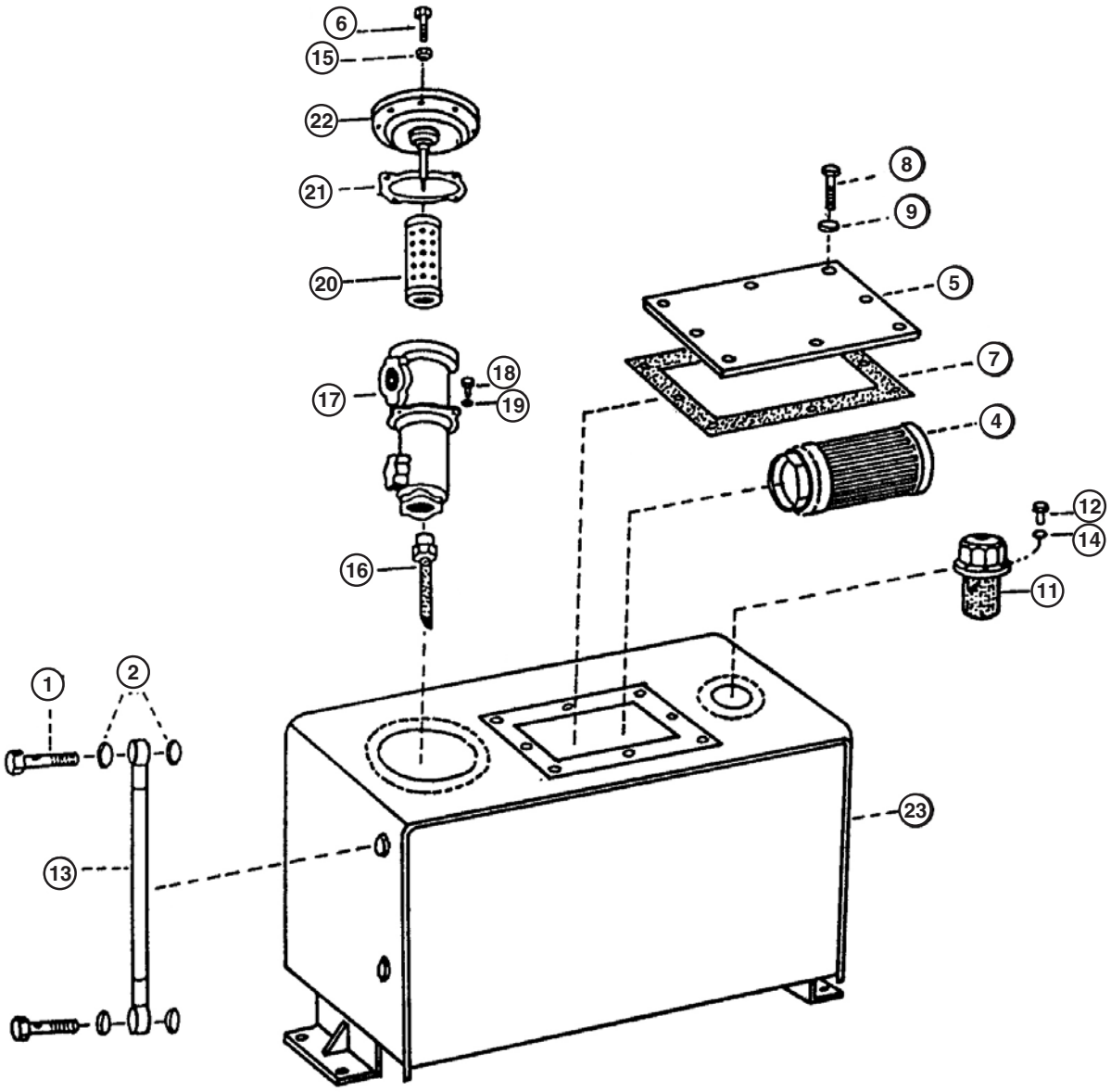

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FIGURE NO. 37

HYDRAULIC OIL RESERVOIR AND FILTER ASSY.

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Banjo Bolt	ABFTA 1600	2	2
2.	Washer	ABFTA 1700	4	4
3.	Drain Plug Washer (not shown in fig.)	ABORA 0300	1	1
4.	Strainer	ABORA 0400	1	1
5.	Tank Cover	AFORA 0500A	1	1
6.	Bolt	ABHOF 2400	6	6
7.	Gasket	AFORA 0700A	1	1
8.	Bolt	ABORA 0800	8	8
9.	Washer	ABORA 0900	8	8
10.	Drain Plug (not shown in fig.)	ABORA 1000	1	1
11.	Breather Assy.	ABORA 0000	1	1
11A.	Breather Assy.	ABORA 0001	1	1
12.	Screw	ABORA 1200	6	6
13.	Level Indicator	ABFTA 1900A	1	1
14.	Washer	ABORA 1400	6	6
15.	Washer	ABORA 1500	6	6
16.	Diffuser	ABORA 1600	1	1
17.	Filter Body	ABORA 1700	1	1
18.	Bolt	ABORA 1800	4	4
19.	Washer	ABORA 1900	4	4
20.	Filter Element	ABHOF 0400	4	4
21.	Gasket	ABHOF 2100	1	1
22.	Cover	ABHOF 2200	1	1
23.	Hydraulic Tank Assy. (W/A)	AFHTA 0109		
	Hydraulic Filter Assy. (Item 17, 20, 21, 22, 15, 6)	ABHOF 00		
	Hydraulic Filter Assy. (Fluden) (Small)	ABHOF 001	1	1
	Hydraulic Filter Assy. (Hydroline) (Small)	ABHOF 002	1	1
	Hydraulic Tank Complete Assy. (Item No. 1 to 23)	AFHTA 0110	1	1

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FIGURE NO. 38

HYDRAULIC CIRCUIT NEUTRAL

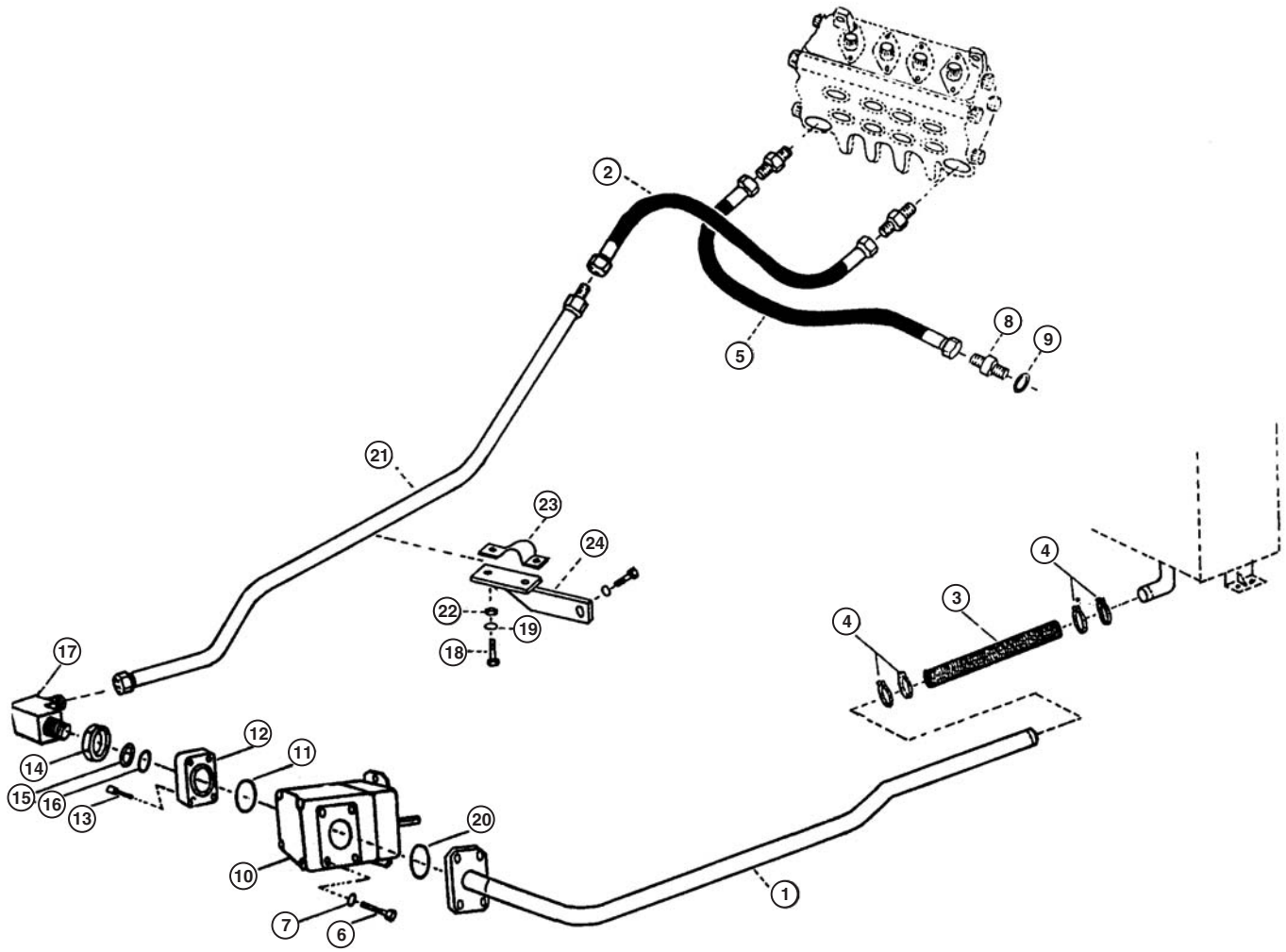

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FIGURE NO. 38

HYDRAULIC CIRCUIT NEUTRAL

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Suction Tube	AFHCN 0110	1	1
2.	H.P. Hose	ABLPH 0700	1	1
3.	Suction Hose	APHCN 0300	1	1
4.	Clamp	ABHCN 0400	4	4
5.	L.P. Hose	ABLPH 0701	1	1
6.	Bolt for Denison Pump Bolt for VSI Pump Bolt for Yuken Pump	ABHCN 0600 ABHCN 0600A ABHCN 0600Y	4 4 4	4 4 4
7.	Washer	ABHCN 0700	4	4
8.	Return Adopter	ABHOF 2700B	1	1
9.	Dowty Seal	ABHOF 2500	1	1
10.	Hydraulic Pump (Denison) Hydraulic Pump (VSI) Hydraulic Pump (Yuken)	ABVPA 000 ABVPA 001 ABVPA 002	1 1 1	1 1 1
11.	'O' Ring 'O' Ring (Yuken)	APHCN 1100 APHCN 1100Y	1 1	1 1
12.	Outlet Flange Outlet Flange (Yuken)	APHCN 1200 APHCN 1209	1 1	1 1
13.	Allen Screw for Denison Pump Allen Screw for VSI Pump Allen Screw for Yuken Pump	ABHCN 1300 ABHCN 1300A ABHCN 1300Y	4 4 4	4 4 4
14.	Check Nut	ABHCN 1400	1	1
15.	Dowty Seal	ABHCN 1500	1	1
16.	'O' Ring	ABHCN 1600	1	1
17.	Outlet Elbow	ABHCN 1700	1	1
18.	Hex Bolt			
19.	Washer			
20.	'O' Ring 'O' Ring	APHCN 2000 APHCN 2000Y	1 1	1 1
21.	Delivery Tube	AFHCN 2110	1	1
22.	Nut			
23.	Clamp Delivery Tube	AFHCN 1910	1	1
24.	Bracket Delivery Tube	AFHCN 2410	4	4

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FIGURE NO. 39

HYDRAULIC CIRCUIT STEERING

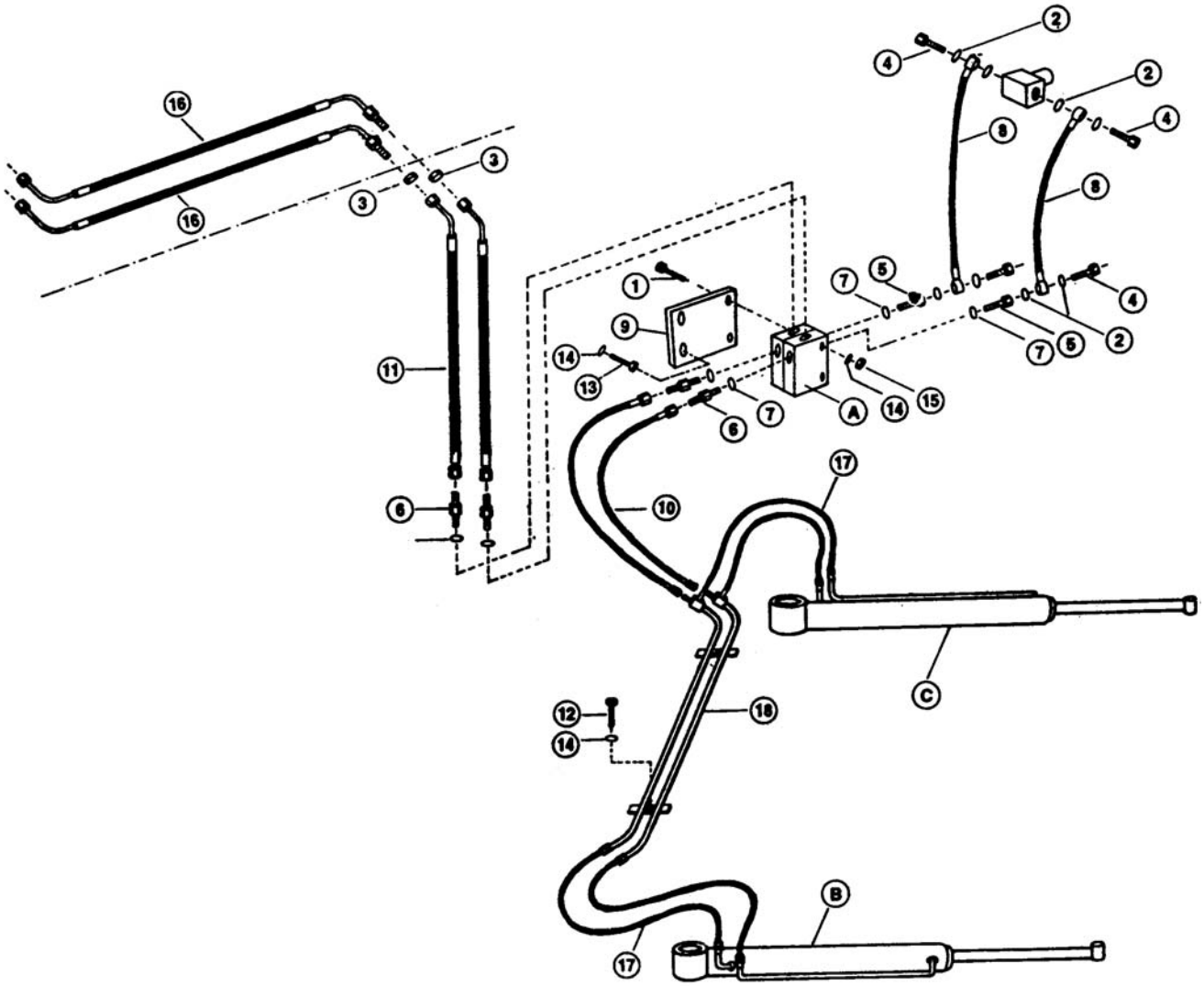

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FIGURE NO. 39

HYDRAULIC CIRCUIT STEERING

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Bolt M8	ABHCSB 0100	2	2
2.	Washer	ABHCS 0200	8	8
3.	Check Nut	ABHCLEC 0300	2	2
4.	Banjo Bolt	ABHCS 0400	4	4
5.	Adopter	ABHCS 0500	2	2
6.	Adopter	ABHCS 0600	4	4
7.	Dowty Seal	ABHCS 0700	6	6
8.	H.P. Hose	APHCW 3000	2	2
9.	Bracket	AFHCSC 0909A	1	1
10.	H.P. Hose	APHCLC 1510A	2	2
11.	H.P Hose	APHCN2	2	2
12.	Bolt	ABHCSC 1200	2	2
13.	Bolt	ABHCSB 1300	2	2
14.	Washer	ABHCSB 1400	6	6
15.	Nut	ABHCSB 1500	2	2
16.	H.P. Hose	APHCN-2-785-A	2	2
17.	H.P. Hose	APHCS 1700	4	4
18.	Tube Assy. (Set)	ABHCS 1809	1	1
A.	Pressure & Flow Control Valve	AMHCS-B-000	2	2
B.	Steering Cylinder RHS	ABHCSCB 000	1	1
C.	Steering Cylinder LHS	AMHCSC 000	1	1

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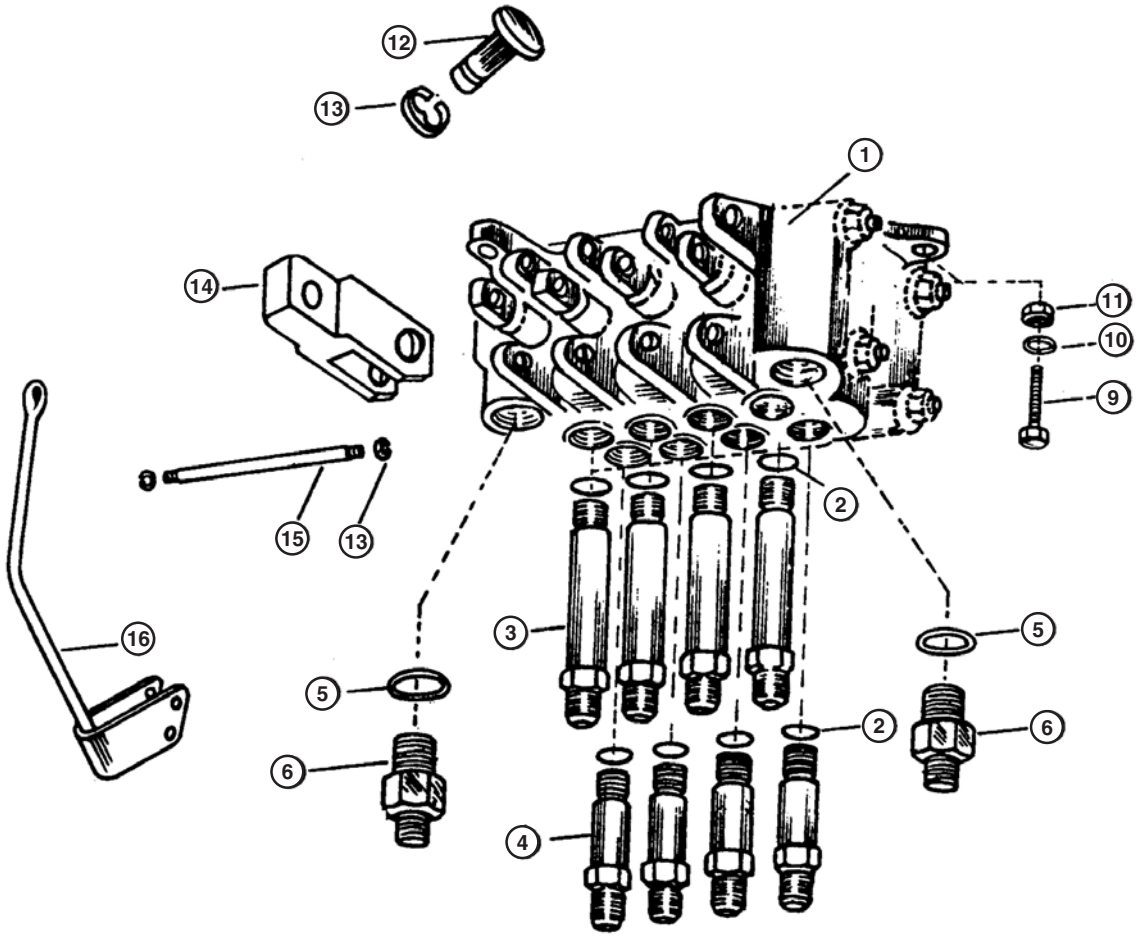
FIGURE NO. 40

CONTROL VALVE CM11



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Control Valve	CM11 CV0110	1	1
2.	'O' Ring	APCV 0200	8	8
3.	Adopter Long	AMCV 0300	4	4
4.	Adopter Short	AMCV 0400	4	4
5.	Dowty Seal	ABCV 0500	2	2
6.	Adopter	AMCV 0600	2	2
9.	Bolt	ABCV 0900	3	3

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
10.	Washer	ABCV 1000	3	3
11.	Nut	ABCV 1100	3	3
12.	Pin	AMCV 1200	8	8
13.	Circlip	ABCV 1300	10	10
14.	Link	AMCV 1400	4	4
15.	Rod	AMCV 1500	1	1
16.	Lever	AMCV 1600A	4	4

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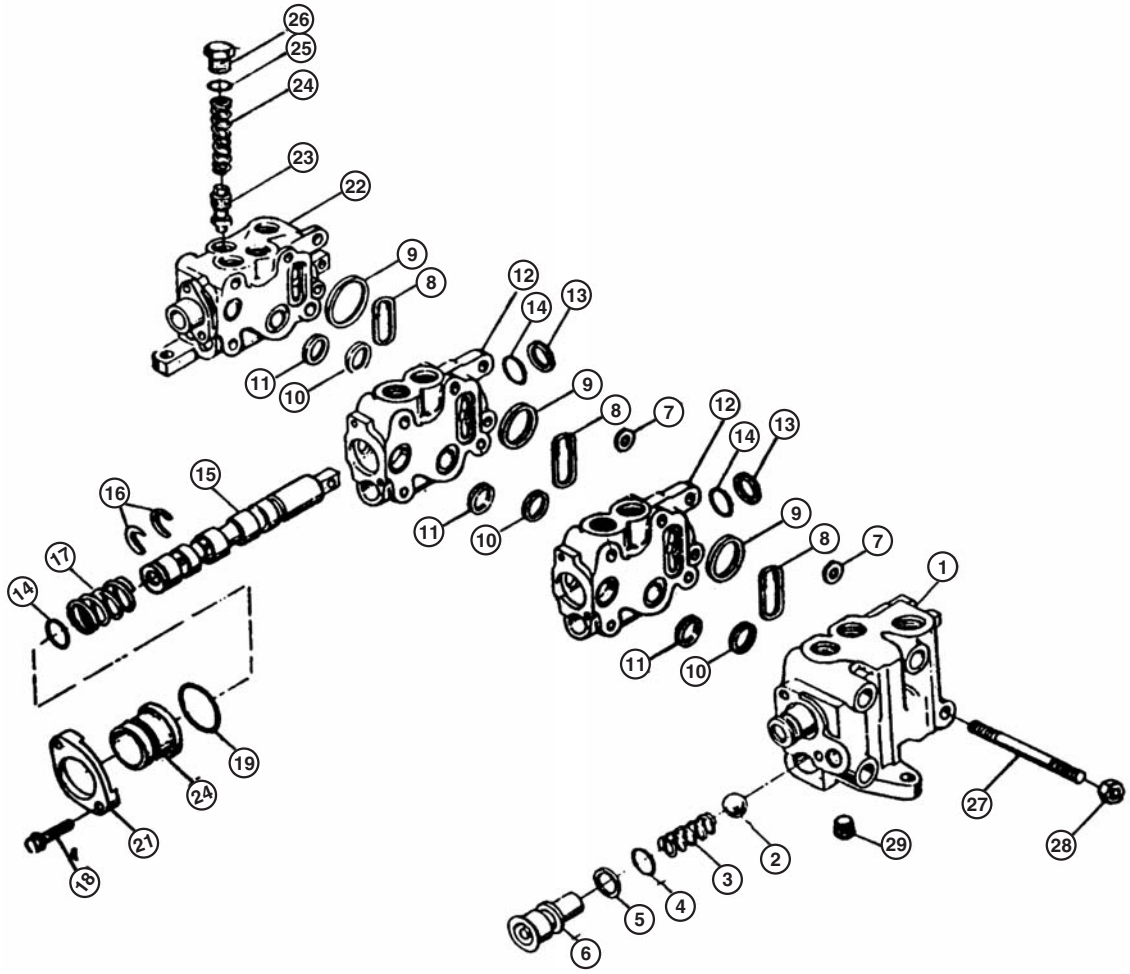
FIGURE NO. 41

CONTROL VALVE ASSY. CM-11



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Outlet section body	ABCVA 0100/11	1	1
2.	Ball	ABCVA 0200/11	4	4
3.	Spring	ABCVA 0300/11	4	4
4.	'O' Ring	ABCVA 0400/11	4	4
5.	Back up ring	ABCVA 0500/11	4	4
6.	Plug	ABCVA 0600/11	4	4
7.	Shim	ABCVA 0700/11	12	12
8.	Retainer	ABCVA 0800/11	3	3
9.	Seal	ABCVA 0900/11	3	3
10.	Backup ring	ABCVA 1000/11	3	3
11.	Seal	ABCVA 1100/11	3	3
12.	Centre Section, Body	ABCVA 1200/11	2	2
13.	Backup Section	ABCVA 1300/11	4	4
14.	'O' Ring	ABCVA 1400/11	8	8
16.	'C' Washer	ABCVA 1600/11	8	8

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
17.	Centring Spring	ABCVA 1700/11	8	8
18.	Screw	ABCVA 1800/11	8	8
19.	'O' Ring	ABCVA 1900/11	4	4
20.	Sleeve	ABCVA 2000/11	4	4
21.	Retainer	ABCVA 2100/11	4	4
22.	Inlet Body	ABCVA 2200/11	1	1
23.	Central Valve sub	ABCVA 2300/11	1	1
24.	Spring	ABCVA 2400/11	1	1
25.	'O' Ring	ABCVA 2500/11	1	1
26.	Plug	ABCVA 2600/11	1	1
27.	Stud	ABCVA 2700/11	4	4
28.	Nut	ABCVA 2800/11	8	8
29.	Plug	ABCVA 2900/11	1	1
	Spool & Body & Service Seperately	ABCVA 1500/11		
	Seal Kit	ABCVAK 001		

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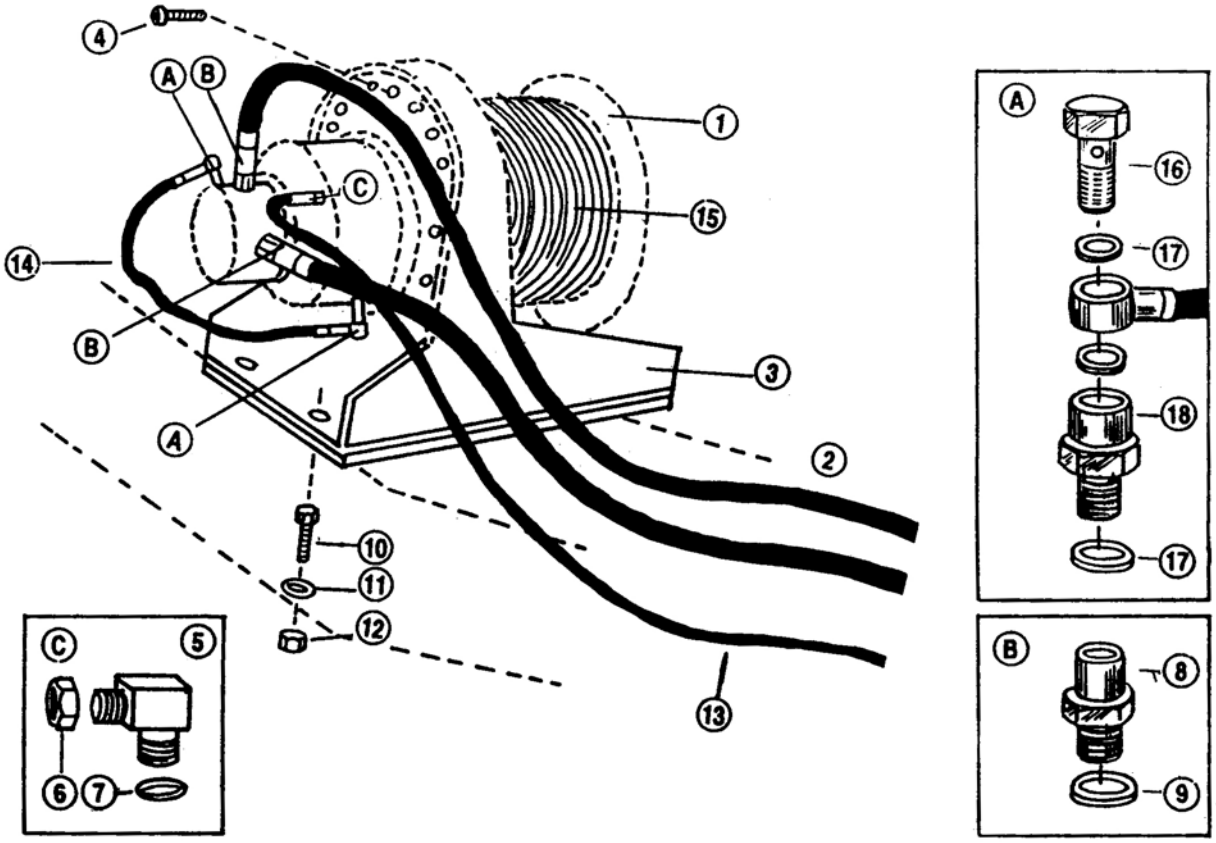
FIGURE NO. 42

WINCH CIRCUIT (SAI)



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Winch Assy.	ABWC 0100	1	1
2.	H.P. Hose	APHCWN 0109A	2	2
3.	Winch Mounting Bracket	AFBSAG 5200	1	1
4.	Winch Assy. Mounting Allen Screw	Allen 10X60	12	12
5.	Elbow	AMWC 1612	1	1
6.	Lock Nut	ABWC 1712	1	1
7.	Dowty Seal	ABWC 1500	1	1
8.	Adaptor	ABWC 1300	2	2
9.	Dowty Seal	ABWC 1400	2	2

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
10.	Hex Bolt	HB. M18 X 65	4	4
11.	Spring Washer	SW M18	4	4
12.	Hex Nut	HN. M18	4	4
13.	Over Flow Hose	APHCW 0909	1	1
14.	HP Hose	APHCW 3000	1	1
15.	Wire Rope	ABWA 2500C	55M	55M
16.	Adaptor	ABWC 1600	1	1
17.	Washer	ABWC 1700	5	5
18.	Banjo Bolt	ABWC 1900	2	2

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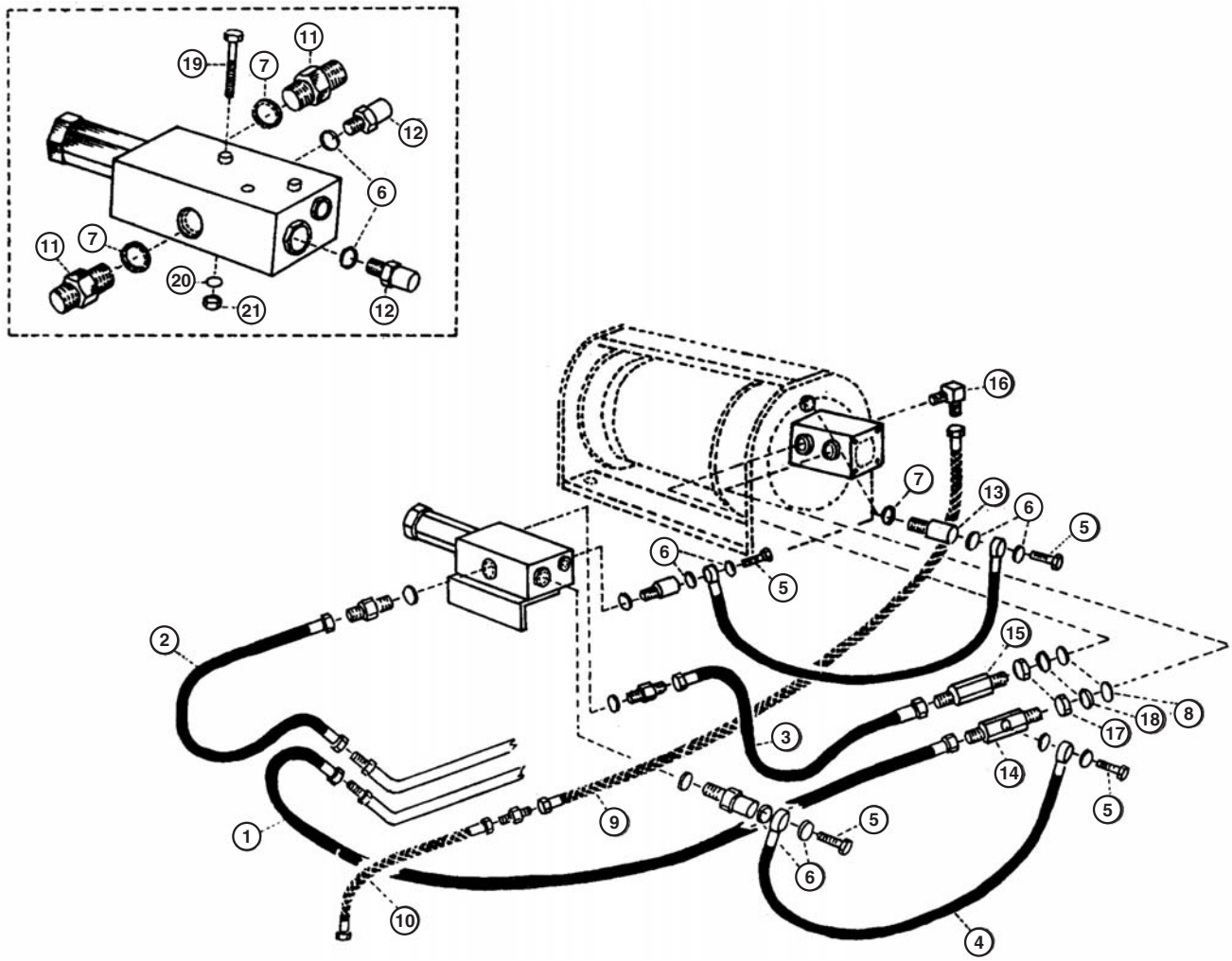
FIGURE NO. 43

HYDRAULIC CIRCUIT WINCH (CYCLO)



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	H. P. Hose	APHCW 0109B	1	1
2.	H. P. Hose	APHCLE 1510	1	1
3.	H. P. Hose	APHCN2-0600B	1	1
4.	H. P. Hose	APHCW 3000A	2	2
5.	Banjo Bolt	ABHCW 0500	4	4
6.	Copper Washer	ACHW - 0921	8	8
7.	Dowty Seal	ACCR - 0131	2	2
8.	'O' Ring	ACCR - 0045	2	2
9.	L.P. Hose	APHCW 0909	1	1
10.	L.P. Hose	APHCW 0900	1	1
11.	Adopter	ATMHCA 4900	2	2

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
12.	Adopter	AMHCW 2100	2	2
13.	Nipple	AMHCW 2109	1	1
14.	Adopter	AMHCW 1609	1	1
15.	Adopter	AMHCW 1600	1	1
16.	Elbow	AMHCW 1309	1	1
17.	Check Nut	AMHCW 1500	2	2
18.	Dowty Seal	ACCR - 0132	2	2
19.	Hex Bolt	ACHW - 0014	2	2
20.	Spring Washer	ACHW - 0606	2	2
21.	Hex Nut	ACHW - 0555	2	2

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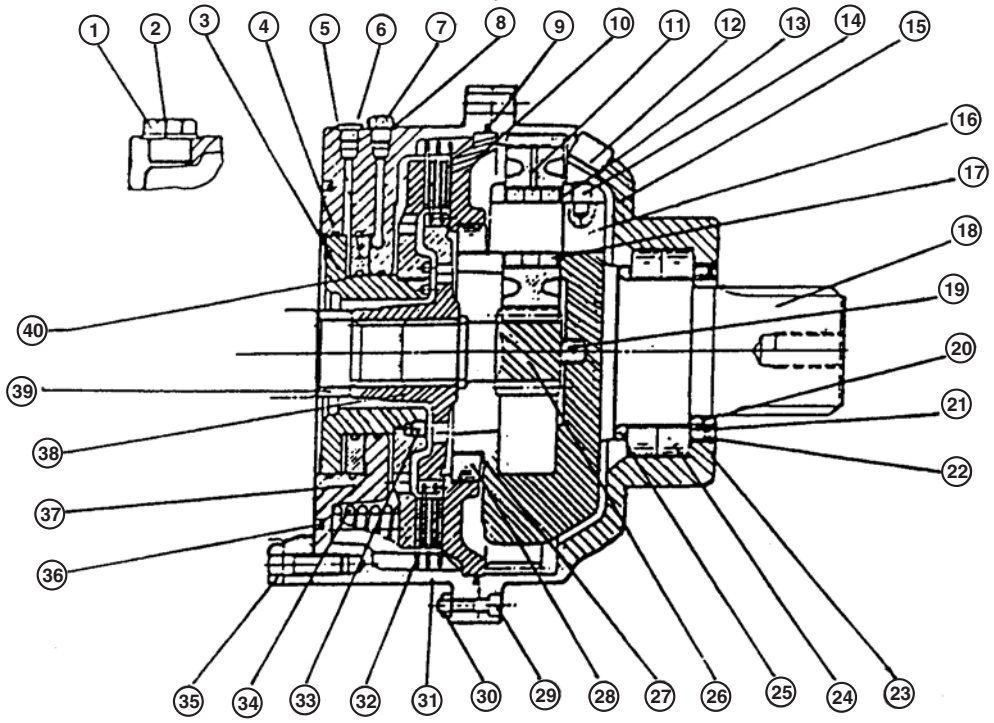
FIGURE NO. 44

WINCH GEAR BOX WITH BRAKE (SAI)



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Plug	ABWGB 0100	1	1
2.	Washer	ABWGB 0200	1	1
3.	Piston Ring Assy.	ABWGB 0300	1	1
4.	'O' Ring	ABWGB 0400	1	1
5.	Piston	ABWGB 0500	1	1
6.	Plug	ABWGB 0600	1	1
7.	Oil Plug	ABWGB 0700	1	1
8.	Washer	ABWGB 0800	1	1
9.	'O' Ring	ABWGB 0900	1	1
10.	Disc Support Flange	ABWGB 1000	1	1
11.	Planetary Gear	ABWGB 1100	3	3
12.	Special Plug	ABWGB 1200	1	1
13.	Washer	ABWGB 1300	9	9
14.	Headless Screw	ABWGB 1400	3	3
15.	Internal Gear	ABWGB 1500	1	1
16.	Pin	ABWGB 1600	3	3
17.	Roller	ABWGB 1700	117	117
18.	Output Shaft	ABWGB 1800	1	1
19.	Roller	ABWGB 1900	1	1
20.	Bush	ABWGB 2000	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
21.	Washer	ABWGB 2100	1	1
22.	Retaining Ring	ABWGB 2200	1	1
23.	Oil Seal	ABWGB 2300	1	1
24.	Roller	ABWGB 2400	34	34
25.	Spacer	ABWGB 2500	1	1
26.	Sun Gear	ABWGB 2600	1	1
27.	Washer	ABWGB 2700	1	1
28.	Roller	ABWGB 2800	22	22
29.	Bolt	ABWGB 2900	2	2
30.	Nut	ABWGB 3000	2	2
31.	Brake Disc	ABWGB 3100	2	2
32.	Counter Disc	ABWGB 3200	3	3
33.	Head Less Screw	ABWGB 3300	1	1
34.	Spring	ABWGB 3400	15	15
35.	Screw	ABWGB 3500	5	5
36.	'O' ring	ABWGB 3600	1	1
37.	Housing	ABWGB 3700	1	1
38.	Disc Support Gear	ABWGB 3800	1	1
39.	Spacer	ABWGB 3900	1	1
40.	'O' Ring	ABWGB 4000	1	1

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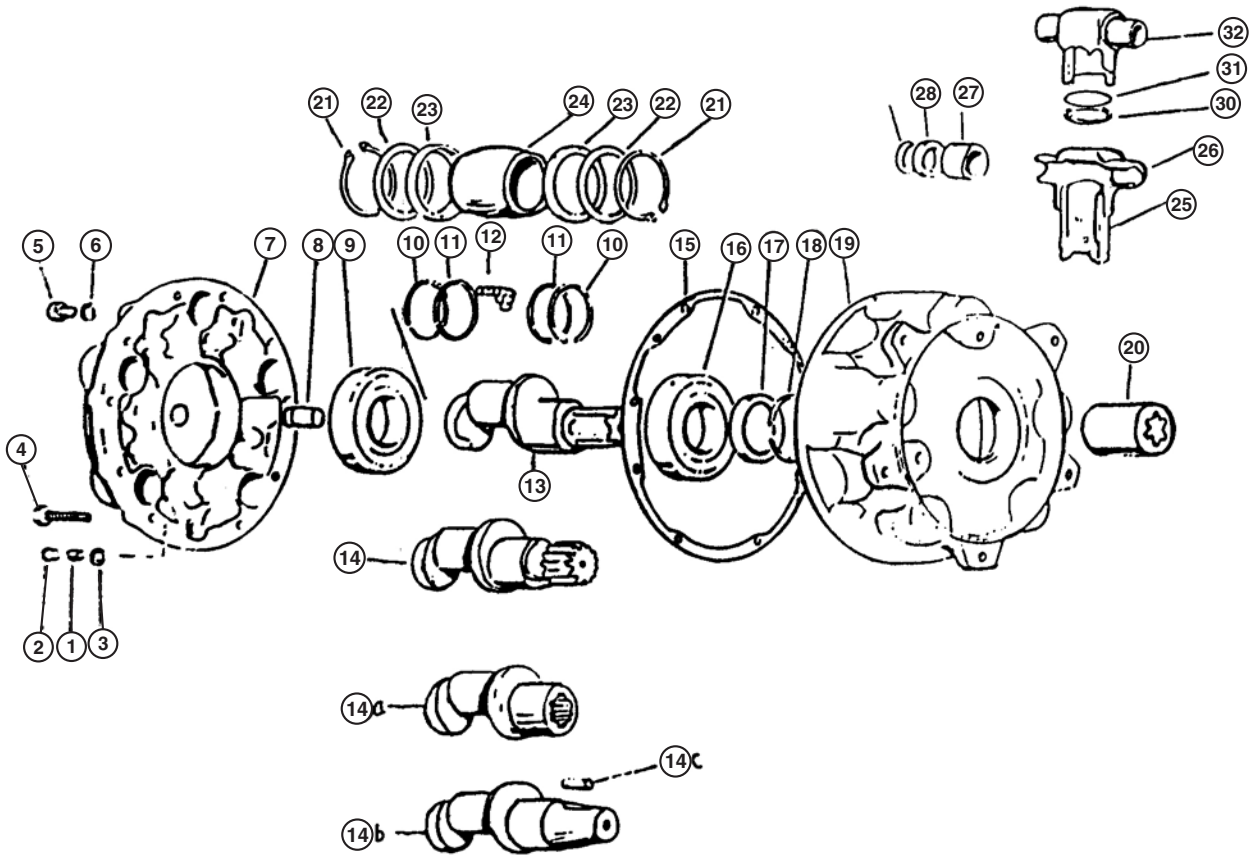
FIGURE NO. 45

HYDRAULIC MOTOR (SAI)



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Tapper Plug	ABHM 0100	2	2
2.	Plastic Plug	ABHM 0200	1	1
3.	Washer	ABHM 0300	2	2
4.	Hex Head Bolt	ABHM 0400	10	10
5.	Oil Relief Valve	ABHM 0500	1	1
6.	Washer	ABHM 0600	1	1
7.	Motor Cover	ABHM 0700	1	1
8.	Drive Pin	ABHM 0800	1	1
9.	Motor Cover	ABHM 0900	1	1
10.	Retaining Ring	ABHM 1000	2	2
11.	Spacing Washer	ABHM 1100	2	2
12.	Roller	ABHM 1200	84	84
13.	Crank Shaft	ABHM 1300	1	1
14.	Crank Shaft Geared	ABHM 1400	1	1
14A.	Crank Shaft Internal Splined	ABHM 1400A	1	1
14B.	Crank Shaft	ABHM 1400B	1	1
14C.	Key	ABHM 1400C	1	1
15.	Gasket	ABHM 1500	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
16.	Cylindrical Roller Bearing	ABHM 1600	2	2
17.	Oil Seal	ABHM 1700	1	1
18.	Retaining Ring	ABHM 1800	1	1
19.	Motor Body	ABHM 1900	1	1
20.	Inner Splined Sleeve	ABHM 2000	1	1
21.	Retaining Ring	ABHM 2100	1	1
22.	Piston Compensation Spring	ABHM 2200	2	2
23.	Piston Retaining Ring	ABHM 2300	2	2
24.	Spherical Support	ABHM 2400	1	1
25.	Piston	ABHM 2500	5	5
26.	Cylinder	ABHM 2600	5	5
27.	Bushing	ABHM 2700	10	10
28.	Seal	ABHM 2800	10	10
29.	'O' Ring	ABHM 2900	5	5
30.	Seal Ring	ABHM 3000	5	5
31.	'O' Ring	ABHM 3100	5	5
32.	Cylinder with Seal Ring	ABHM 3200	5	5
	Hydraulic Motor Complete	ABHM 000		
	Seal Kit for Motor	ABHMK 000		

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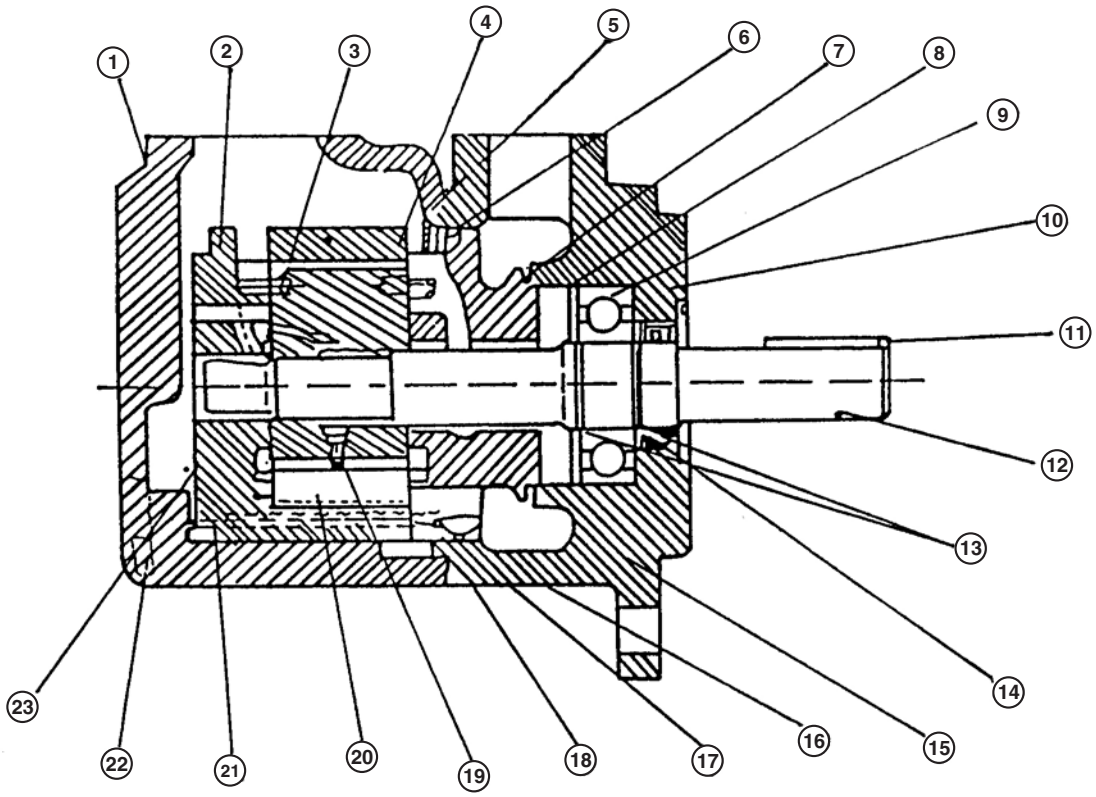
FIGURE NO. 46

HYDRAULIC PUMP ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Housing	ABVPA 0100	1	1
2.	Port Plate Rear	ABVPA 0200	1	1
3.	Dowel Pin	ABVPA 0300	2	2
4.	'Cam' Ring	ABVPA 0400	1	1
5.	'O' Ring	ABVPA 0500	1	1
6.	Back up Ring	ABVPA 0600	1	1
7.	Port Plate Pressure	ABVPA 0700	1	1
8.	Retaining Ring	ABVPA 0800	1	1
9.	Ball Bearing	ABVPA 0900	1	1
10.	Mounting Cap	ABVPA 1000	1	1
11.	Key	ABVPA 1100	1	1
12.	Shaft	ABVPA 1200	1	1
13.	Round Section Ring	ABVPA 1300	2	2
14.	Shaft Seal	ABVPA 1400	1	1
15.	SQ Section Seal	ABVPA 1500	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
16.	SQ Section Seal	ABVPA 1600	1	1
17.	Screw	ABVPA 1700	2	2
18.	Rotor Insert Assy.	ABVPA 1800	1	1
19.	Pin Vane Hold Out	ABVPA 1900	10	10
20.	Vane	ABVPA 2000	10	10
21.	Dowel Pin	ABVPA 2100	1	1
22.	Screw	ABVPA 2200	1	1
23.	Bush	ABVPA 2300	1	1
	Hydraulic Pump Complete	ABVPA 000		
	Seal Kit Hydraulic Pump	ABVPA K00		
	Cartridge Kit	ABVPACK 00		
	Hyd. Pump (Denision)	ABVPAK 00		
	Seal Kit (VSI)	ABVPAK 01		
	Seal Kit (Yuken)	ABVPAK 02		

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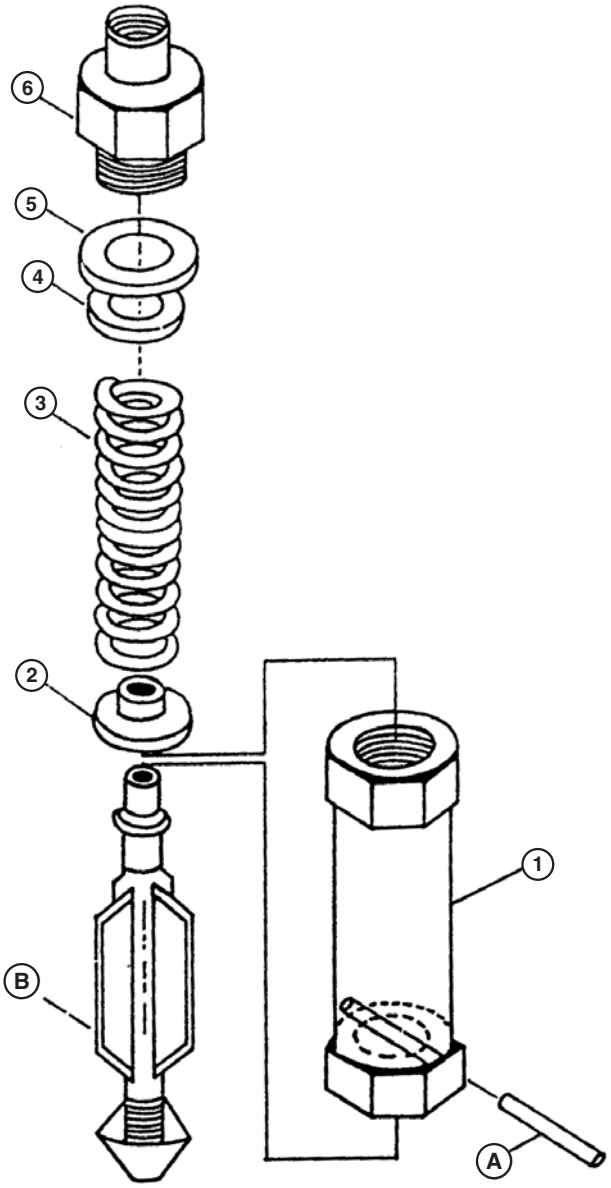
FIGURE NO. 47

SAFETY VALVE ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Body Lock Valve	AMSVA 0100	1	1
A	Lock Pin	AMSVA 0a00	1	1
B	Poppet	AMSVA 0b00	1	1
2.	Washer	AMSVA 0200	1	1
3.	Spring	AMSVA 0300	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
4.	Shim	AMSVA 0400	A/R	A/R
5.	Sealing Ring	AMSVA 0500	1	1
6.	Adaptor	AMSVA 0600	1	1
	Lock Valve Assy.	AMSVA 000	1	1

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FIGURE NO. 48

WINCH DETAILS (CYCLO)

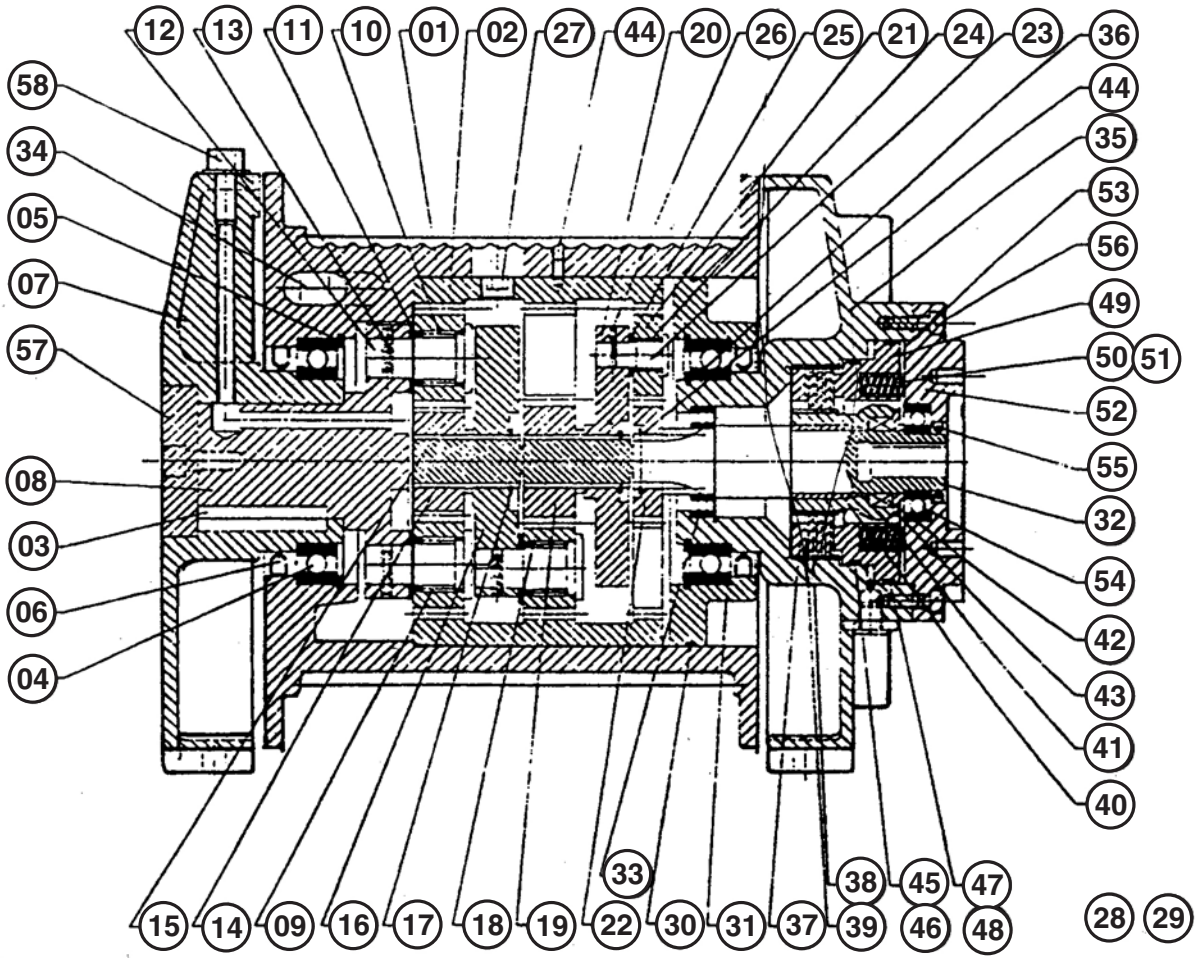

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FIGURE NO. 48

WINCH DETAILS (CYCLO)

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Cable Drum	ABWDC 0100	1	1
2.	Ring Gear	ABWDC 0200	1	1
3.	Key	ABWDC 0300	2	2
4.	Ball Bearing	ABWDC 0400	2	2
5.	Circlip Internal	ABWDC 0500	2	2
6.	Oil Seal	ABWDC 0600	2	2
7.	Bracket L.H.	ABWDC 0700	1	1
8.	O/P Carrier 3.82	ABWDC 0800	1	1
9.	Planet - 3.82	ABWDC 0900	4	4
10.	Roller	ABWDC 1000	161	161
11.	Planet Washer	ABWDC 1100	7	7
12.	Planet Pin	ABWDC 1200	7	7
13.	Spring Dowel	ABWDC 1300	7	7
14.	Sun Gear - 3.82	ABWDC 1400	1	1
15.	Sun Gear Sleeve	ABWDC 1500	2	2
16.	Int. Carrier 3.48-10T	ABWDC 1600	1	1
17.	Circlip External	ABWDC 1700	3	3
18.	Planet - 3.48	ABWDC 1800	3	3
19.	Sun Gear - 3.48	ABWDC 1900	1	1
20.	Int Carrier 3.48	ABWDC 2000	1	1
21.	Planet 3.48	ABWDC 2100	3	3
22.	Sun Gear 3.48	ABWDC 2200	1	1
23.	Planet Pin	ABWDC 2300	3	3
24.	Roller	ABWDC 2400	84	84
25.	Planet Washer	ABWDC 2500	3	3
26.	Spring Dowel	ABWDC 2600	3	3
27.	NPTF Pressure Plug	ABWDC 2700	2	2
28.	Side Plate	ABWDC 2800	2	2
29.	Allen Screw	ABWDC 2900	12	12

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FIGURE NO. 48

WINCH DETAILS (CYCLO)

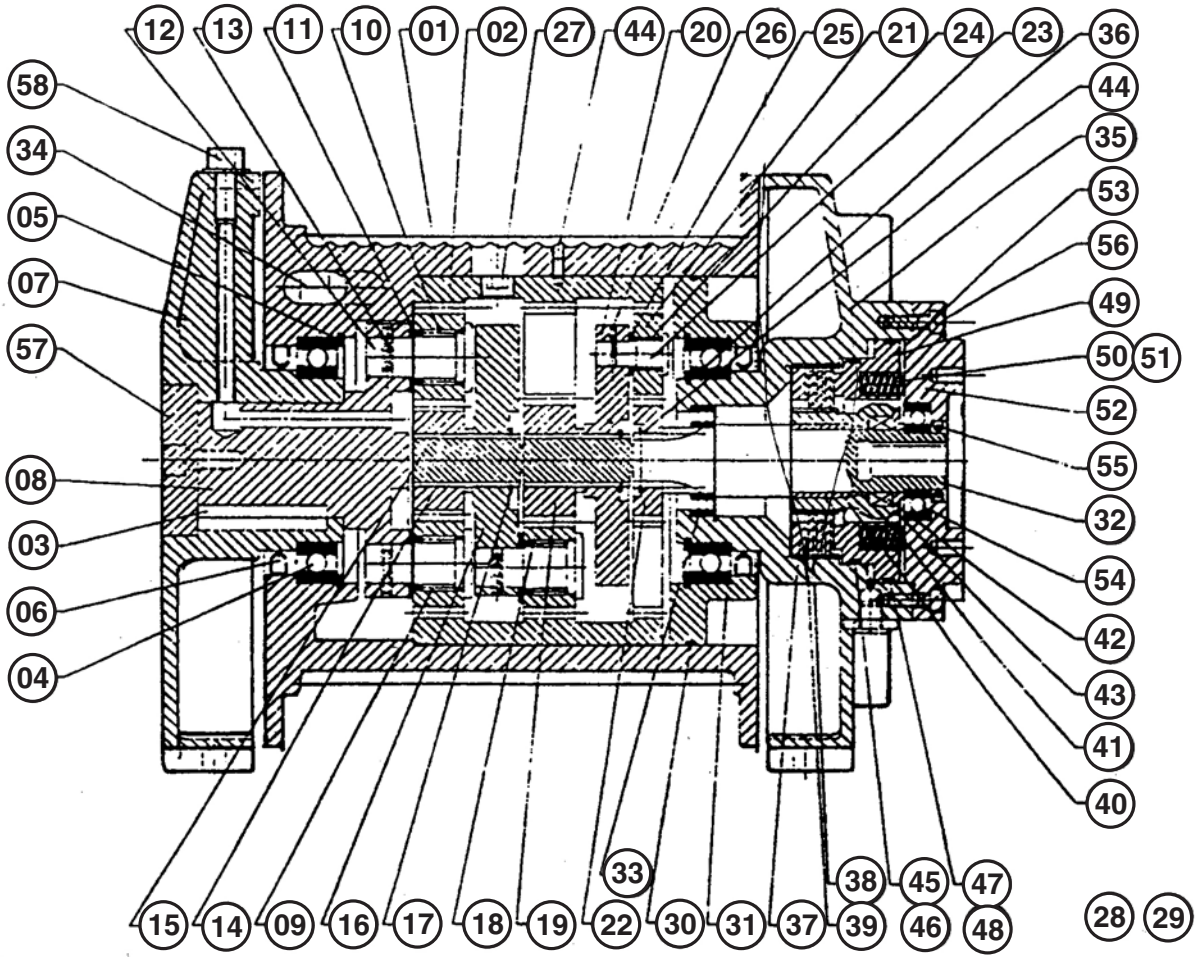

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FIGURE NO. 48

WINCH DETAILS (CYCLO)

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
30.	'O' Ring	ABWDC 3000	1	1
31.	Housing (Bearing)	ABWDC 3100	1	1
32.	Sun Gear Shaft 3.48	ABWDC 3200	1	1
33.	Ball Bearing	ABWDC 3300	1	1
34.	Wedge	ABWDC 3400	1	1
35.	Bracket R.H.	ABWDC 3500	1	1
36.	Spacer-I(Resting)	ABWDC 3600	1	1
37.	Brake Plate (Inner)	ABWDC 3700	3	3
38.	Brake Plate (Outer)	ABWDC 3800	4	4
39.	Hyd. Shaft Clutch Bush	ABWDC 3900	1	1
40.	Hyd. Shaft (Clutch Brake)	ABWDC 4000	1	1
41.	Sprag Clutch	ABWDC 4100	1	1
42.	Spacer Clutch (Brake)	ABWDC 4200	1	1
43.	Grub Screw	ABWDC 4300	6	6
44.	'O' Ring	ABWDC 4400	1	1
45.	'O' Ring	ABWDC 4500	1	1
46.	Back up Ring	ABWDC 4600	2	2
47.	'O' Ring	ABWDC 4700	1	1
48.	Back up Ring	ABWDC 4800	2	2
49.	Piston	ABWDC 4900	1	1
50.	Spring Brake (Small)	ABWDC 5000	12	12
51.	Spring Brake (Big)	ABWDC 5100	12	12
52.	Hyd. Motor Flange	ABWDC 5200	1	1
53.	'O' Ring	ABWDC 5300	1	1
54.	Ball Bearing	ABWDC 5400	1	1
55.	Oil Seal	ABWDC 5500	1	1
56.	Allen Screw	ABWDC 5600	10	10
57.	Clamping Piece	ABWDC 5700	1	1
58.	Flange Plug	ABWDC 5800	1	1
59.	Winch Assy. Complete TLM10	ABWC 0110C		
60.	Winch Assy. Complete TLM8	ABWC 0100C		

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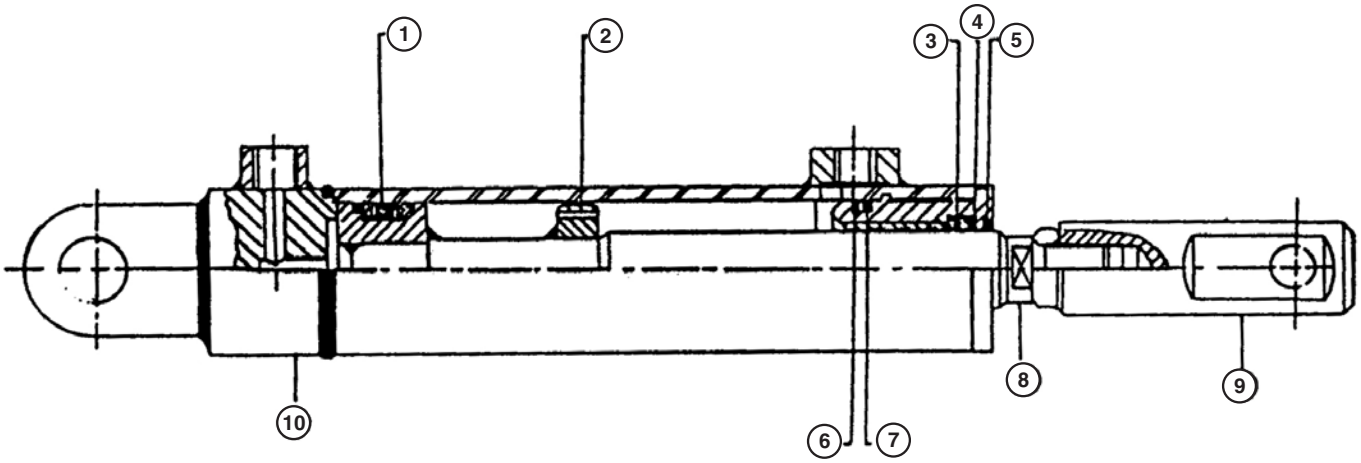
FIGURE NO. 49

EXTENSION CYLINDER



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Piston Seal	ABEC 0100	1	1
2.	Piston Bearing	ABEC 0200	1	1
3.	Rod Seal	ABEC 0300	2	2
4.	Backup Ring	ABEC 0400	1	1
5.	Wiper Seal	ABEC 0500	1	1
6.	'O' Ring	ABEC 0600	1	1
7.	Backup Ring	ABEC 0700	1	1
8.	Piston Rod (Oscar)	ABEC 0800	1	1
	Piston Rod (Wipro)	ABEC 0801	1	1
	Piston Rod (Dantal)	ABEC 0802	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
9.	Piston Rod Eye	ABEC 0900	1	1
10.	Cylinder	ABEC 1000	1	1
	Seal Kit Extension Cylinder (Oscar)	ABECAK 00		
	Seal Kit Extension Cylinder (Wipro)	ABECAK 01		
	Seal Kit Extension Cylinder (Dantal)	ABECAK 02		
	Extension Cylinder Complete 1.83 (Oscar)	ABHCLEC 000A		
	Extension Cylinder Complete 1.83 (Dantal)	ABHCLEC 002A		
	Extension Cylinder Complete 2.3 (Oscar)	ABHCLEC 023		
	Extension Cylinder Complete 2.3 (Dantal)	ABHCLEC 023D		
	Extension Cylinder Complete 3.0 (Oscar)	ABHCLEC 030		
	Extension Cylinder Complete 3.0 (Dantal)	ABHCLEC 030D		

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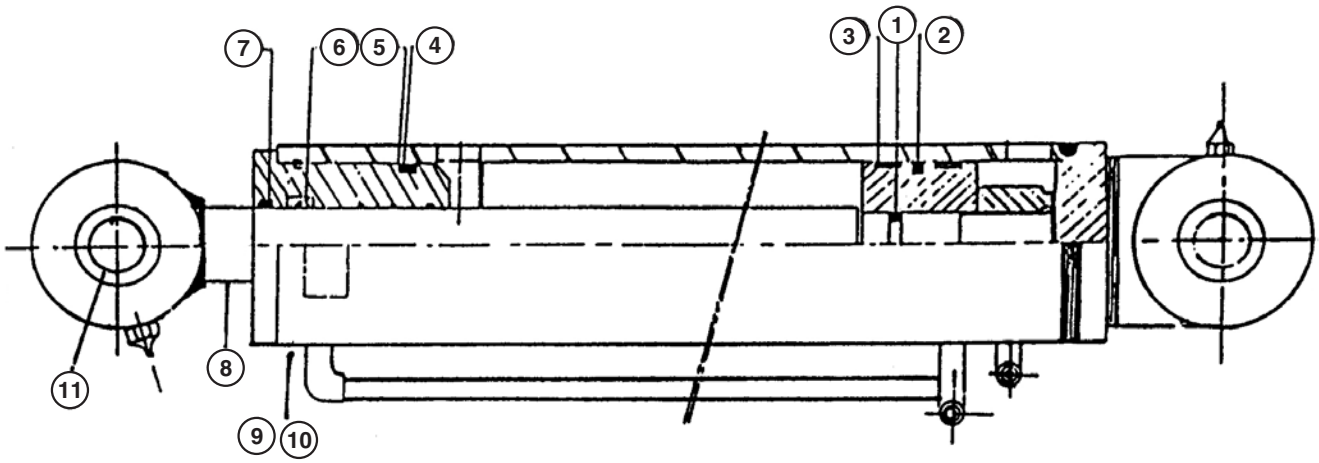
FIGURE NO. 50

STEERING CYLINDER



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	'O' Ring Piston	ABSC 0101	1	1
2.	Piston Seal	ABSC 0200	1	1
3.	Piston Bearing	ABSC 0300	2	2
4.	'O' Ring (Gland)	ABSC 0400	1	1
5.	Backup Ring	ABSC 0500	1	1
6.	Rod Seal	ABSC 0600	1	1
7.	Wiper Seal	ABSC 0700	1	1
8.	Piston Rod (Oscar)	ABSC 0800	1	1
9.	Piston Rod (Wipro)	ABSC 0801	1	1
	Piston Rod (Dantal)	ABSC 0802	1	1
	Cylinder LHS	ABSC 0900	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
10.	CYLINDER RHS	ABSC 1000	1	1
11.	Bush	AMSC 1109	4	4
12.	Gland	ABSC 1209	1	1
	Seal Kit Steering Cylinder (Oscar)	ABSCAK 000		
	Seal Kit Steering Cylinder (Wipro)	ABSCAK 001		
	Seal Kit Steering Cylinder (Dantal)	ABSCAK 002		
	Steering Cylinder LHS (Oscar)	ABHCSB 000		
	Steering Cylinder RHS (Oscar)	ABHCSC 000		
	Steering Cylinder LHS (Dantal)	ABHCSB 002		
	Steering Cylinder RHS (Dantal)	ABHCSC 002		

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FIGURE NO. 51

CABIN ASSY.

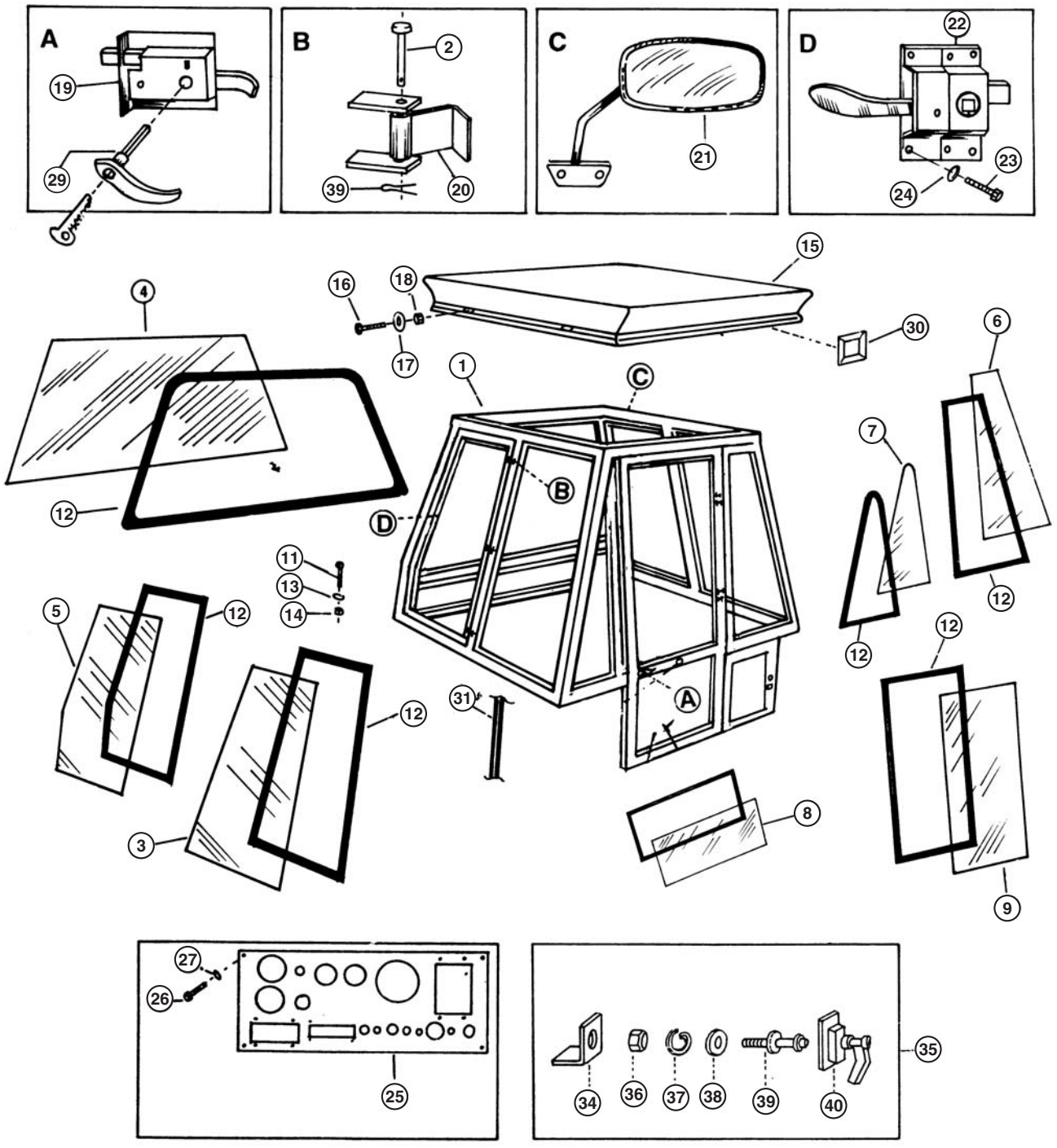

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FIGURE NO. 51

CABIN ASSY.

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Cabin Frame	AFCAC 0100A	1	1
2.	Pin	AFCAC 5300	6	6
3.	Side Glass Fixed	AGCAC 0200A	2	2
4.	Front Glass Fixed	AGCAC 0400A	1	1
5.	Side Window Glass	AGCAC 0500A	2	2
6.	Rear Fixed Glass (RHS)	AGCAC 0600A	1	1
7.	Rear Fixed Glass (LHS)	AGCAC 0600B	1	1
9.	Rear Door Glass (Upper)	AGCAC 0700A	1	1
11.	Cabin Mounting Bolt	ABCAC 1100	13	13
12.	Rubber Beading	ABCAC 1200A	A/R	A/R
13.	Washer	ABCAC 1300	13	13
14.	Nut	ABCAC 1400	13	13
15.	Roto Moulded Canopy	ABCAC 1909B	1	1
16.	Mounting Bolts	ABCAC 2000	4	4
17.	Washer	ABCAC 2100	4	4
18.	Nut	ABCAC 2200	4	4
19.	Rear Door Lock Assy.	ABCAC 2300	1	1
20.	Hinge	ABCAC 2400A	6	6
21.	Rear View Mirror	ABCAC 2500	1	1
22.	Side Window Lock	ABCAC 2900	2	2
23.	Bolt	ABCAC 3000	8	8
24.	Spring Washer	ABCAC 3100	8	8
25.	Dash Board Aluminium	ABCAC 3200A	1	1
26.	Bolt	ABCAC 3400	4	4
27.	Washer	ABCAC 3500	4	4
29.	Commercial Lock with Key	ABCAC 3800	1	1
30.	Rubber Grommet	ABCAC 3900	2	2
31.	Door Gola Beading	ABCAC 4000	A/R	A/R
34.	Window Stopper	ABCAC 4700	3	3
35.	Window Latch (Item No. 36 to 40)	ABCAC 4809	3	3
36.	Hex Nut	HN. M12	3	3
37.	Spring Washer	SW. 12	3	3
38.	Plain Washer	PW. 12	3	3
40.	Beading Strip (2.5 x 23)	ABCAC 4909		
	Cabin Assy. Complete (Item No. 1 to 40)	ABCAC 0109		

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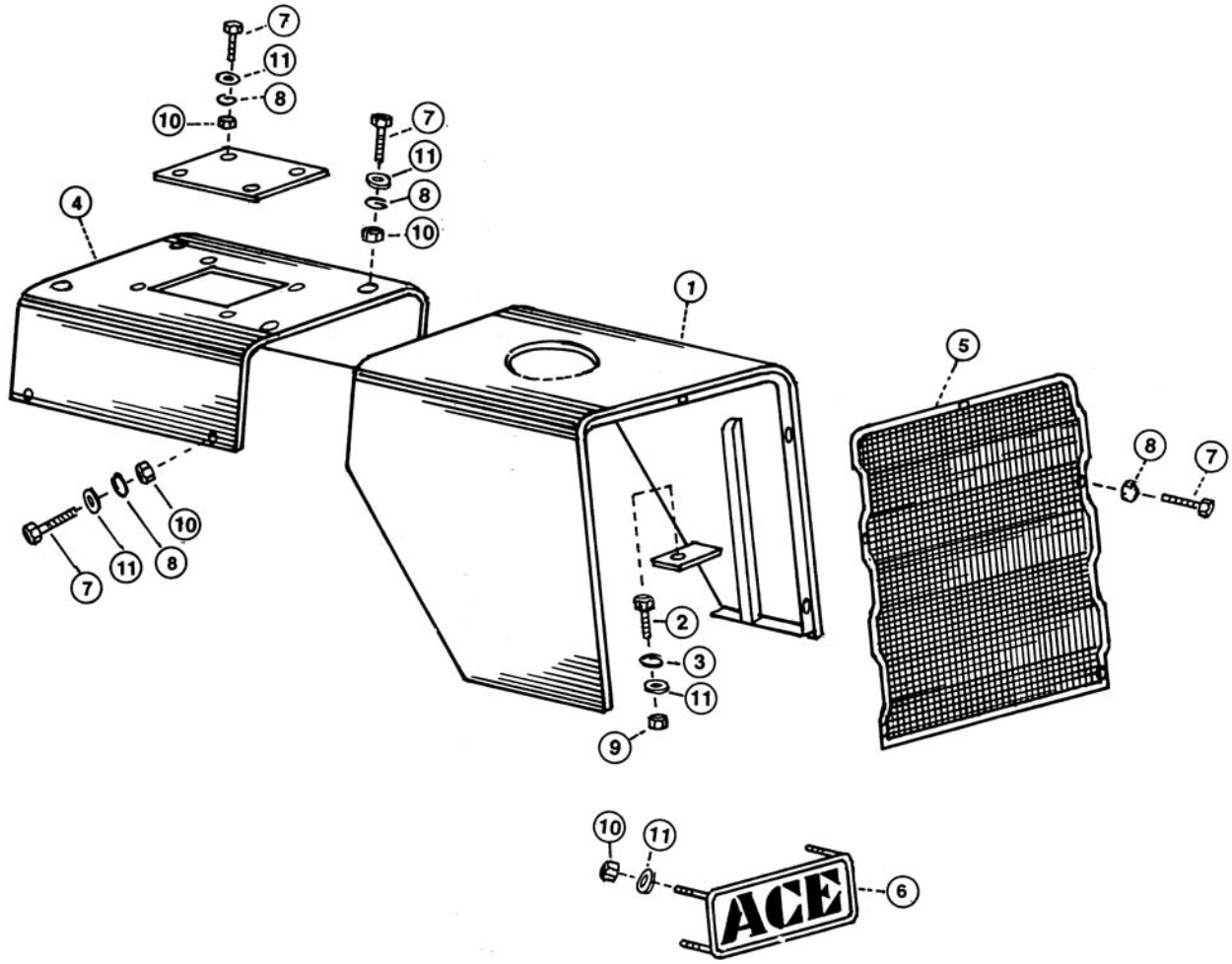
FIGURE NO. 52

BONNET ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Engine Front Cover	AFBA 0109A	1	1
2.	Hex Bolt	HB. M10x30	2	2
3.	Plain Washer	PW. 10	4	4
4.	Engine Rear Cover	AFBA 0409A	1	1
5.	Front Grill	AFBA 0500A	1	1
6.	Name Plate	ABBA 0600	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			14XW	14XW
7.	Hex Bolt	HB M8x25	17	17
8.	Spring Washer	SW. M8	17	17
9.	Hex Nut	HN. M10	2	2
10.	Hex Nut	HN. M8	17	17
11.	Plain Washer	PW.8	17	17

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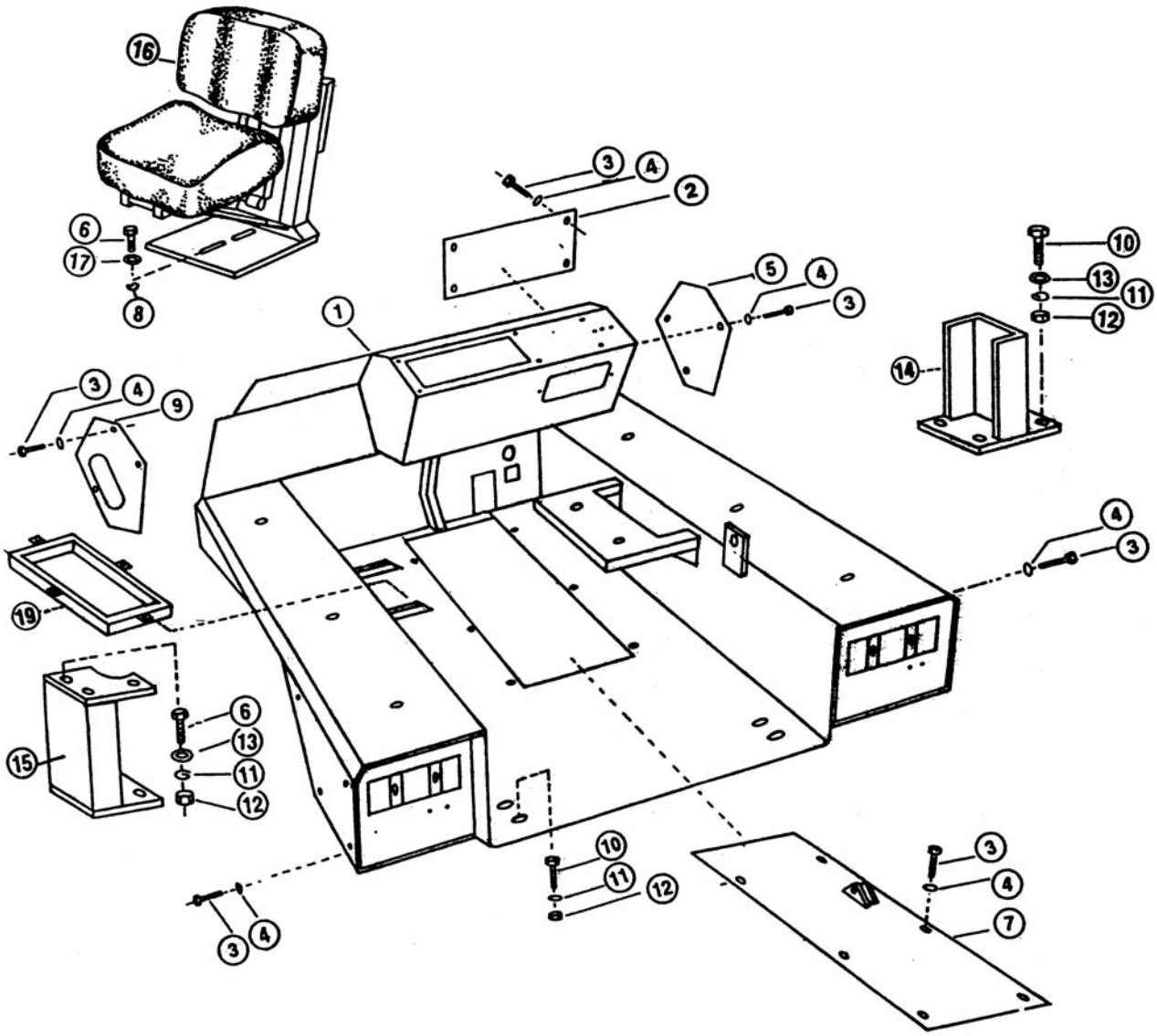
FIGURE NO. 53

CAB BASE ASSY.



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Cab Base Assy.	AFCB 0110	1	1
2.	Front Cover	AFCB 0200	1	1
3.	Hex Bolt	HB. M8x25	36	36
4.	Spring Washer	SW. M8	36	36
5.	Dash Board RHS Cover	AFCB 0500	1	1
6.	Hex Bolt	HB. M10x30	2	2
7.	Cover	AFCB 0700A	1	1
8.	Spring Washer	SW. M10	2	2
9.	Dash Board Cover LHS	AFCB 0900	1	1
10.	Hex Bolt	HB. M12x40	13	13

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
11.	Spring Washer	SW. M12	13	13
12.	Hex Nut	HN. M12	13	13
13.	Plain Washer	PW. 12	13	13
14.	Stay RHS	AFCB 1309	1	1
15.	Stay LHS	AFCB 1409	1	1
16.	Driver Seat	ABDSA 0108	1	1
17.	Plain Washer	PW. 10	2	2
18.	Hand Rest	AFCB 1800	1	1
19.	Battery Frame	ABE 5000	1	1
20.	Floor Mat	ABCB 2100	1	1

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FIGURE NO. 54

ELECTRICALS

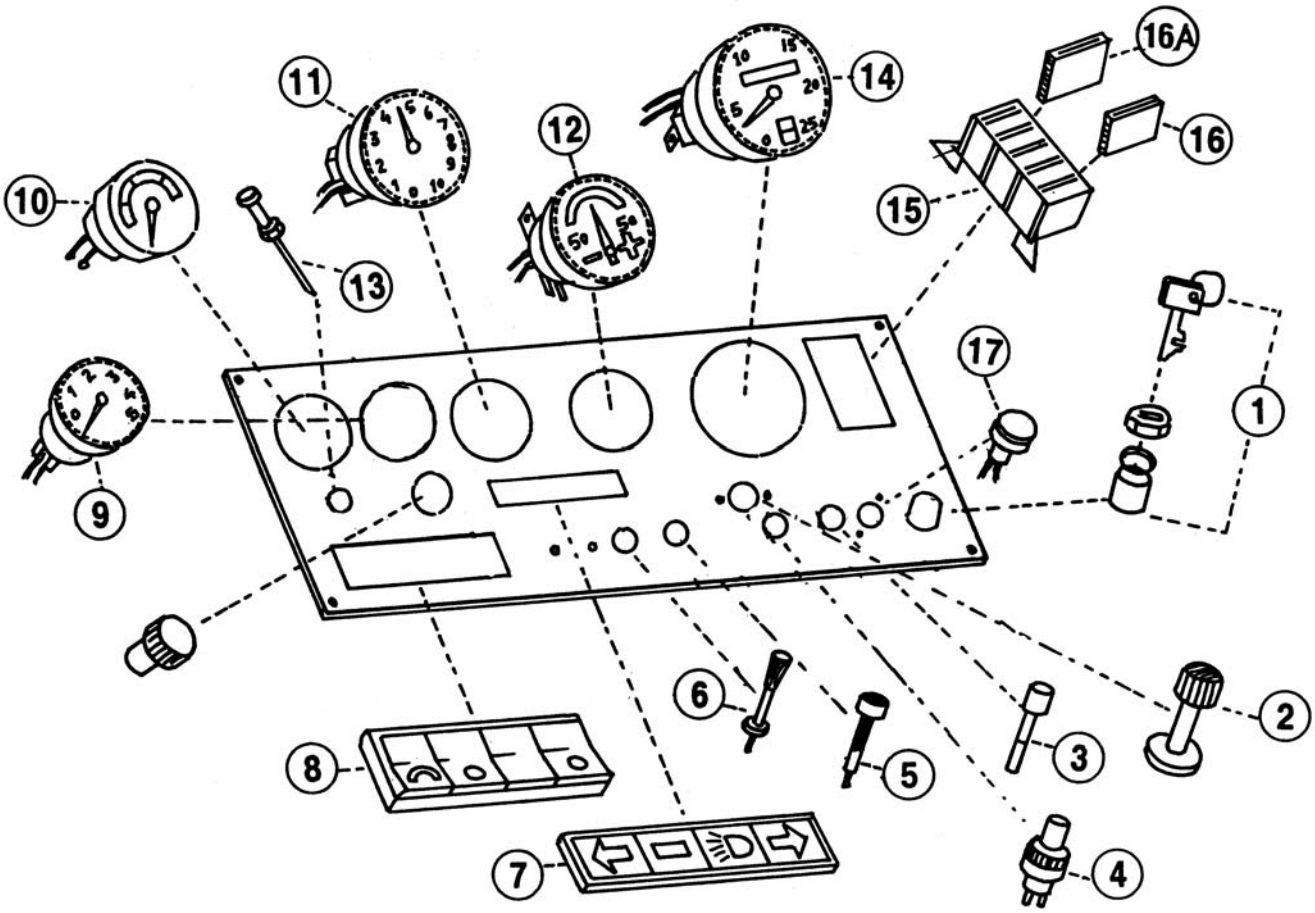

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FIGURE NO. 54

ELECTRICALS

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Ignition Switch with Key	ABE 0109	1	1
2.	Dipper Switch	ABE 0200	1	1
3.	Cab Light Switch	ABE 0300	1	1
4.	Horn Switch	ABE 0400	1	1
5.	Back Light Switch	ABE 0500	1	1
6.	Side Indicator Switch	ABE 0600	1	1
7.	Indicating Cluster	ABE 0700	1	1
8.	Piano Switch	ABE 0800	1	1
9.	Oil Pressure Meter	ABE 0900	1	1
10.	Water Temp. Meter	ABE 1000	1	1
11.	Air Pressure Meter	ABE 1100	1	1
12.	Amp. Meter	ABE 1200	1	1
13.	Stop Cable Switch	ABE 1309	1	1
14.	Hour / R.P.M. Meter	ABE 1400M	1	1
15.	Fuse Box	ABE 1500	1	1
16.	Fuse 15 Amp.	ABE 1600	11	11
16A.	Fuse 30 Amp.	ABE 1600A	2	2
17.	Starter Switch	ABE 4909	1	1

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FIGURE NO. 54

ELECTRICALS

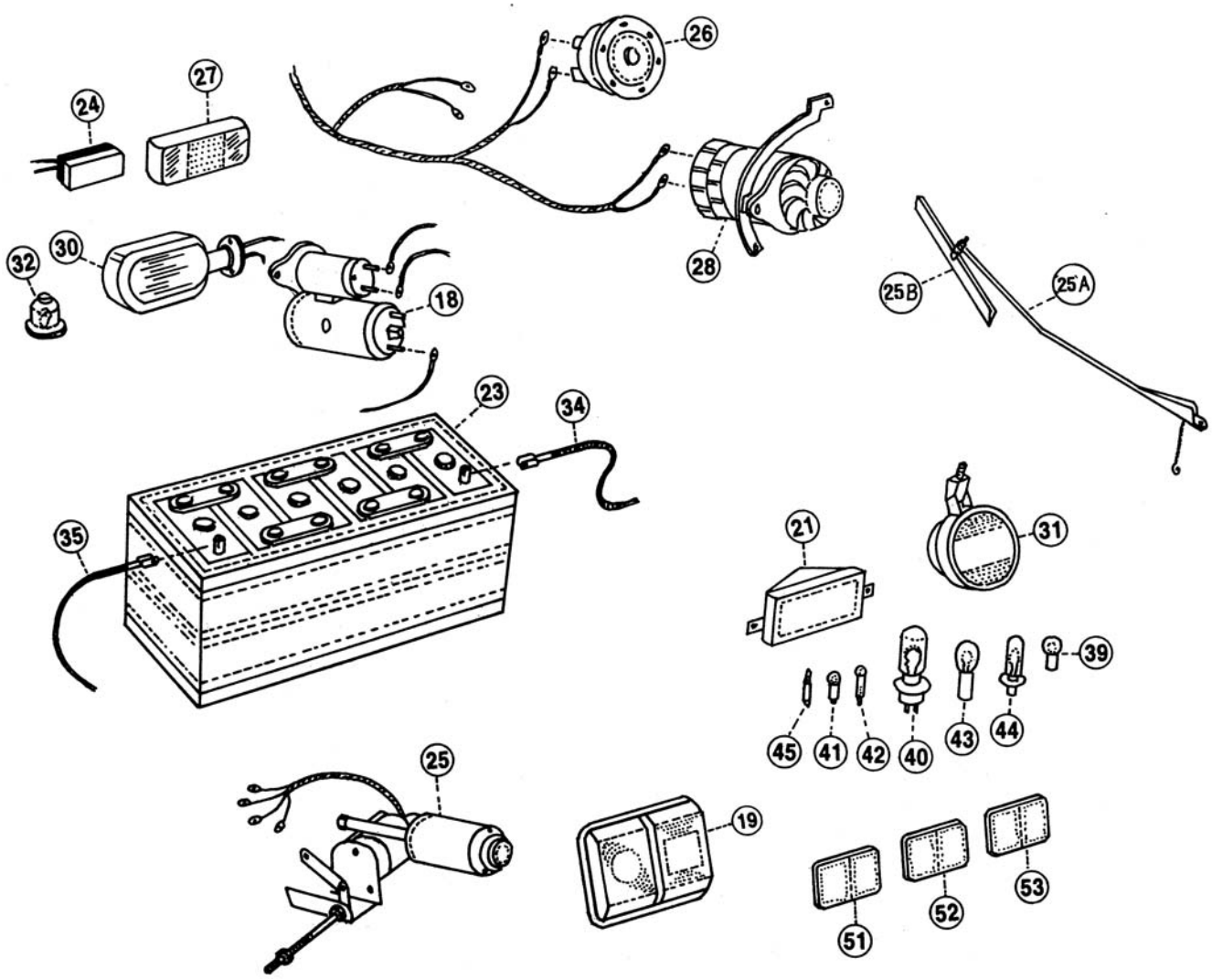

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FIGURE NO. 54

ELECTRICALS

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
18.	Self Starter	ABE 1800	1	1
19.	Tail Lamp (Twin)	ABE 6209	2	2
21.	Canopy Light	ABE 2100	2	2
22.	Brake Switch	ABE 2200	1	1
23.	Battery 12V- 13-Plates	ABE 2300	1	1
24.	Roof Lamp	ABE 2400	1	1
25.	Wiper Motor	ABE 2509	1	1
25A.	Wiper Arm	ABE 2509A	1	1
25B.	Wiper Blade	ABE 2509B	1	1
26.	Horn	ABE 2600	1	1
27.	Front Parking Trafficator Light	ABE 2700	2	2
28.	Alternator	ABE 2800	1	1
29.	Overload Limit Switch	ABE 2900	1	1
30.	Head Light	ABE 3000	1	1
31.	Halogen Light	ABE 3100	1	1
32.	Boom Warning Light	ABE 3200	1	1
33.	Over Hoist Limit Switch	ABE 3300	1	1
34.	Battery Earth Lead	ABE 3400	1	1
35.	Battery Main Lead	ABE 3509C	1	1
36.	Air Pressure Gauge Pipe	ABE 3600	1	1
37.	Oil Pressure Gauge Pipe	ABE 3700	1	1
38.	Harness Set Complete	ABE 3809	1	1

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FIGURE NO. 54

ELECTRICALS

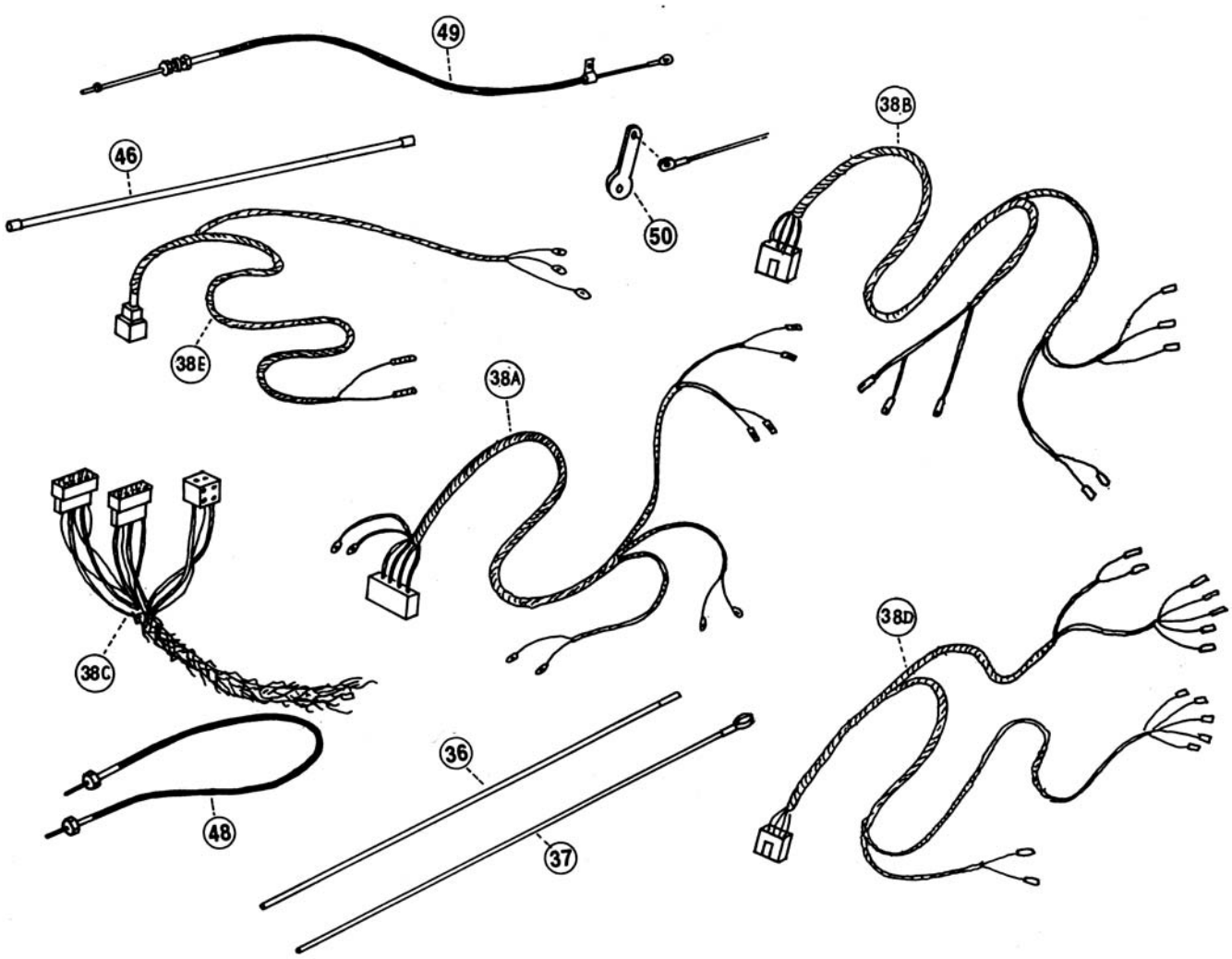

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FIGURE NO. 54

ELECTRICALS

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
38A.	Harness - Engine	ABE 3809A	1	1
38B.	Harness - Canopy	ABE 3809B	1	1
38C.	Harness - Dashboard	ABE 3809C	1	1
38D.	Harness - Boom	ABE 3809D	1	1
39.	Bulb Spot Light	ABE 3900	1	1
40.	Bult Head Light Double Filament 36W	ABE 4000	2	2
41.	Bulb 6W (a) Boom Warning Light Bulb 6W (b) Parking Front & Rear Bulb 6W (c) Brake Light	ABE 4100	7	7
42.	Bulb Roof Lamp	ABE 4200	2	2
43.	Bulb Canopy Light 25W	ABE 4300	4	4
44.	Bulb Trafficator Lights 12W	ABE 4400	4	4
45.	Bulb Gauge Light and Indicating Cluster	ABE 4500	8	8
46.	Pipe	ABE 4612	2	2
47.	Reverse Horn	ABE 4700	1	1
48.	R.P.M. Cable	ABE 1400M/1	1	1
49.	Stop Cable	ABE 5600	1	1
50.	Clamp (Stop Cable)	ABFIE 2900	1	1
51.	Reflector - AMBER	ABE 5909	8	8
52.	Reflector - Red	ABE 6009	2	2
53.	Reflector - White	ABE 6109	2	2

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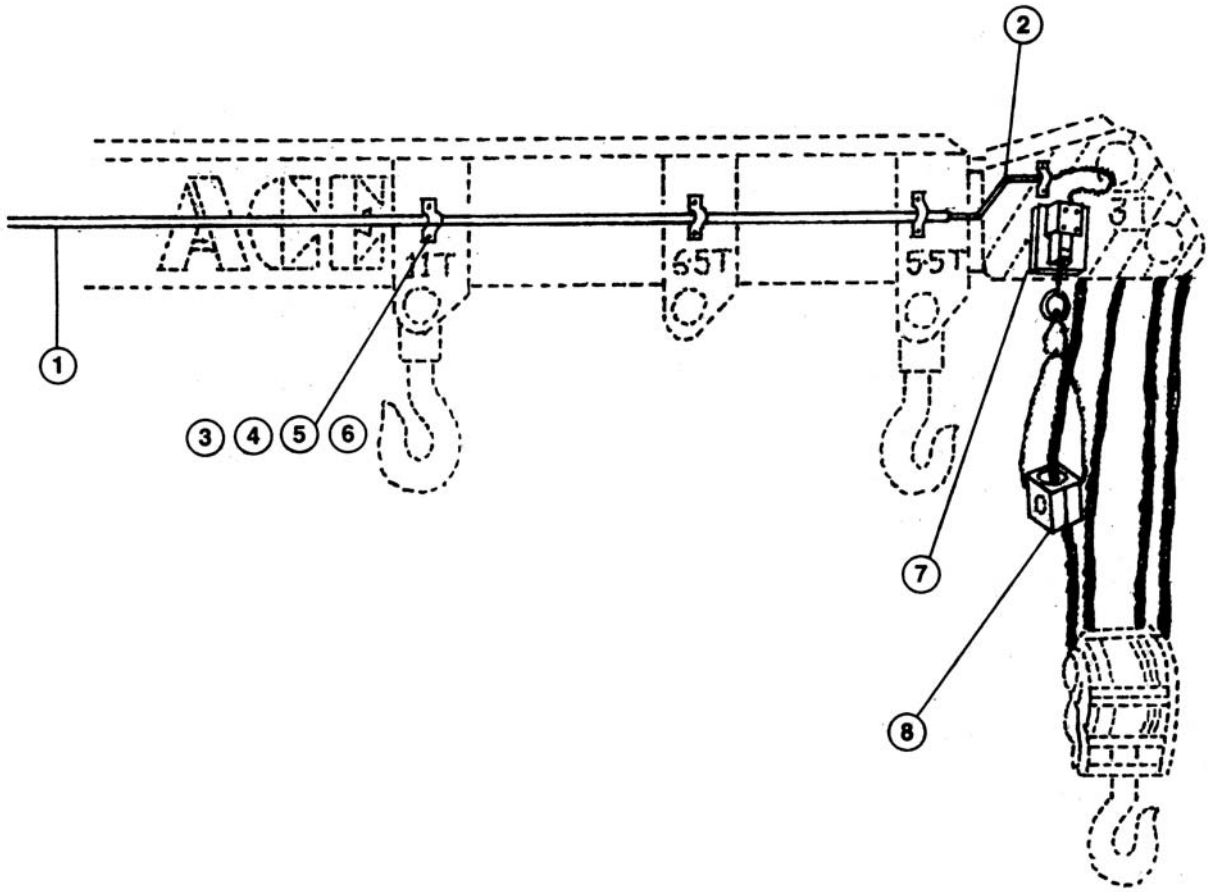
FIGURE NO. 55

WINCH EXTENSION WARNING



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Outer Tube Assy.	AFWEW 0112A	1	1
2.	Inner Tube Assy.	AFWEW 0212A	1	1
3.	Rubber Bush	AFWEW 0300	4	4
4.	Clamp	AFWEW 0400	4	4
5.	Bolt	AFWEW 0500	8	8
6.	Washer	AFWEW 0600	8	8
7.	Over Hoist Limit Switch	AFWEW 0700	1	1
8.	Weight Assy.	AFWEW 1200	1	1
	Over Hoist Limit Switch with Weight Assy. (Item No. 7 & 8)	AFWEW 1100	1	1

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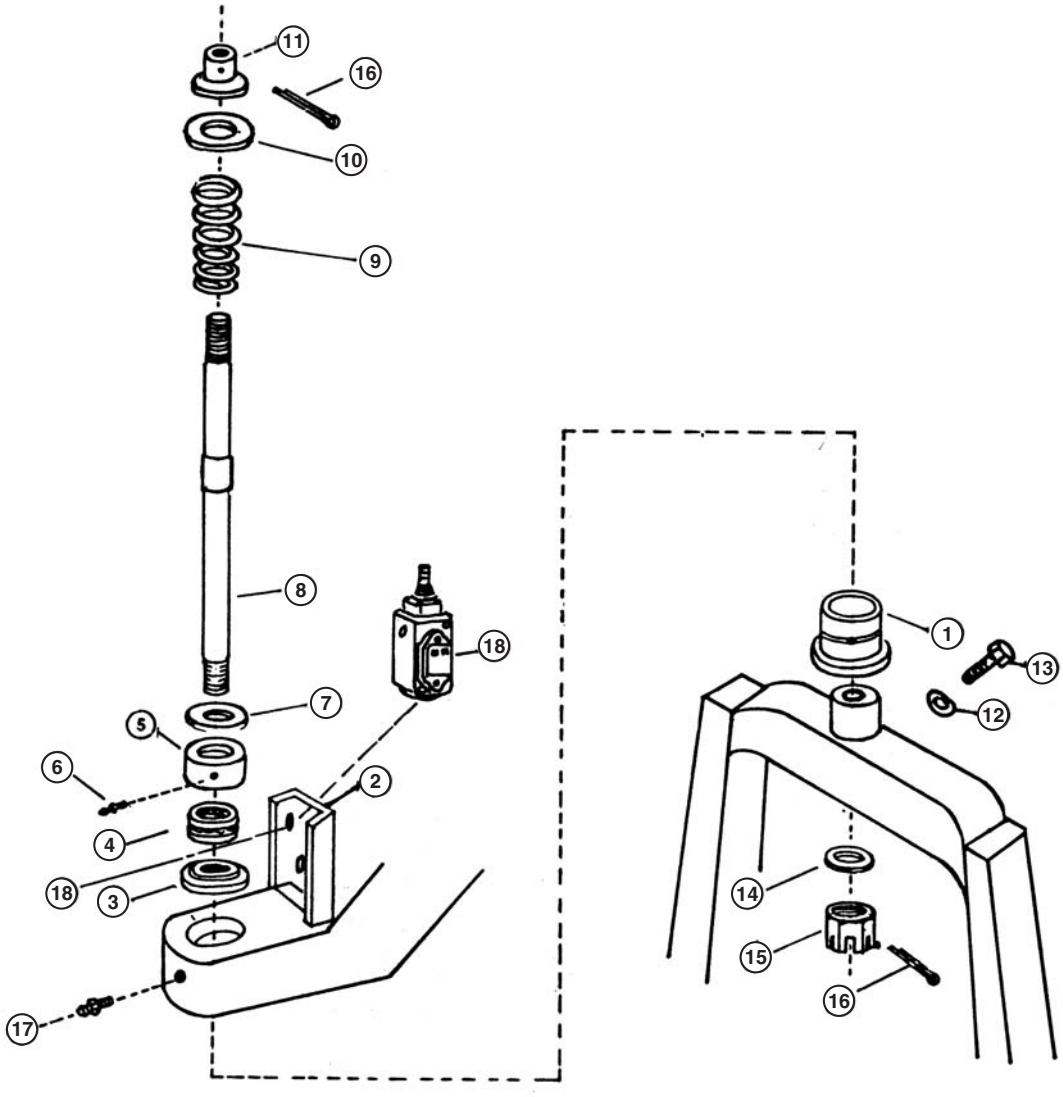
FIGURE NO. 56

OVERLOAD WARNING SYSTEM



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Pivot Bush	AMOWS 0100	1	1
2.	Bracket	AFOWS 0200	1	1
3.	Bearing Washer	AMOWS 0300	1	1
4.	Thrust Bearing	ABOWS 0400	1	1
5.	Bearing Cap	ABOWS 0500	1	1
6.	Grease Nipple	AHOWS 0600	1	1
7.	Washer Special	AMOWS 0700	1	1
8.	Tie Bolt	AMOWS 0800	1	1
9.	Spring	AHOWS 0900	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
10.	Disc	AMOWS 1000	1	1
11.	Nut	AMOWS 1100	1	1
12.	Plain Washer	AHOWS 1200	1	1
13.	Key Stud	ABOWS 1300	1	1
14.	Plain Washer	AHOWS 1400	1	1
15.	Castle Nut	AMOWS 1500	1	1
16.	Split Pin	AHOWS 1600	2	2
17.	Grease Nipple	AHOWS 2100	1	1
18.	Overload Limit Switch	ABE 2900	1	1

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FIGURE NO. 57

CONTROL VALVE REXROTH

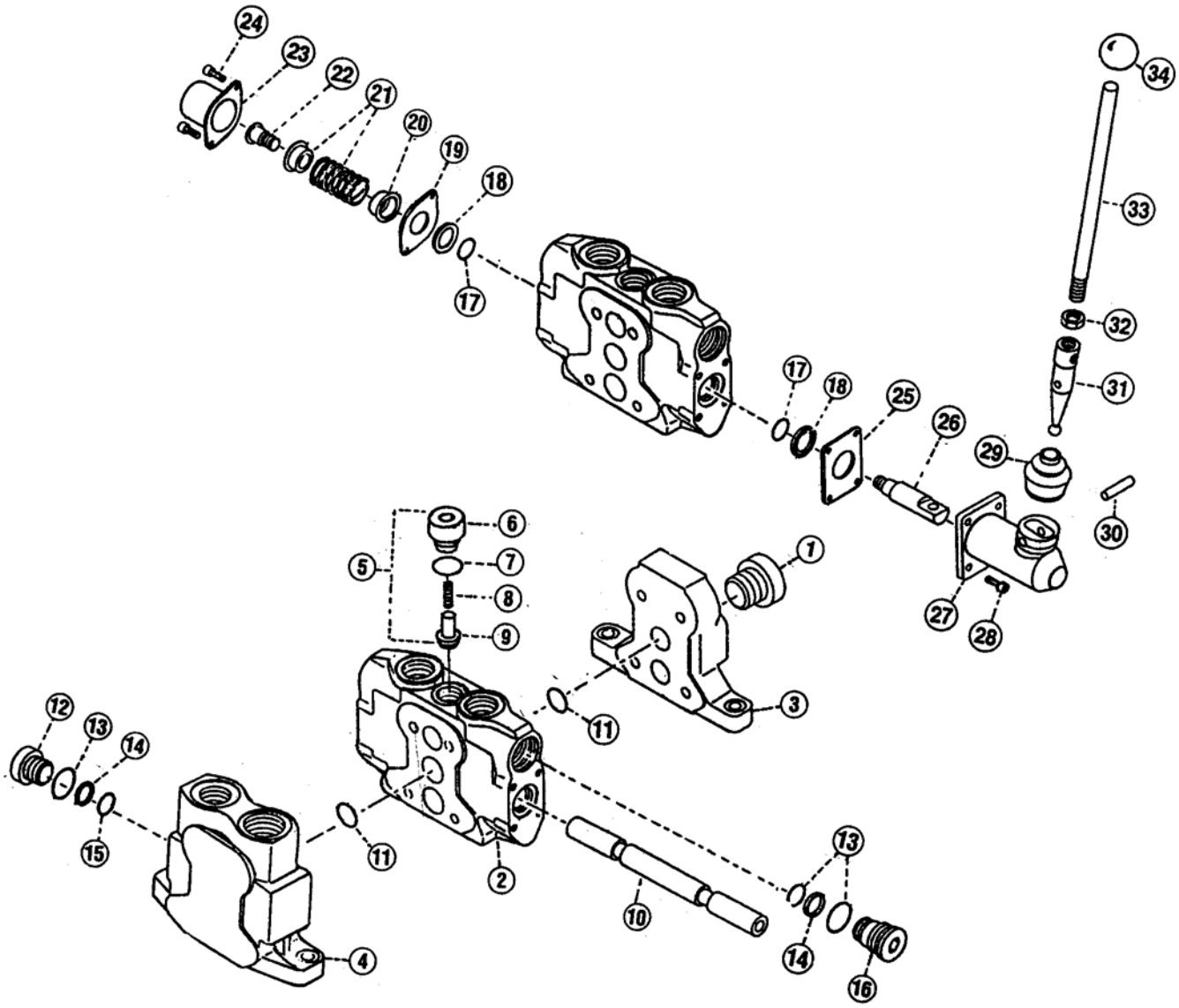

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FIGURE NO. 57

CONTROL VALVE REXROTH

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Screw Plug	ABCVR 0100	4	4
2.	Direction Valve Element	ABCVR 0200	4	4
3.	Output Element	ABCVR 0300	4	4
4.	Inlet Element	ABCVR 0400	4	4
5.	Non Return Valve Assy. (Item No. 6 to 9)	ABCVR 0500	4	4
6.	Screw Plug	ABCVR 0600	4	4
7.	'O' Ring	ABCVR 0700	4	4
8.	Spring	ABCVR 0800	4	4
9.	Poppet	ABCVR 0900	4	4
10.	Spool	ABCVR 1000	4	4
11.	'O' Ring	ABCVR 1100	2	2
12.	Screw Ring	ABCVR 1200	4	4
13.	'O' Ring	ABCVR 1300	5	5
14.	Seal	ABCVR 1400	5	5
15.	'O' Ring	ABCVR 1500	5	5
16.	Q Plug	ABCVR 1600	4	4
17.	'O' Ring	ABCVR 1700	2	2
18.	Wiper Ring	ABCVR 1800	4	4
19.	Flange	ABCVR 1900	4	4
20.	Spring Retainer	ABCVR 2000	4	4
21.	Spring	ABCVR 2100	8	8
22.	Adaptor	ABCVR 2200	4	4
23.	Cover	ABCVR 2300	4	4
24.	Screw	ABCVR 2400	8	8
25.	Flange	ABCVR 2500	1	1
26.	Pin	ABCVR 2600	4	4
27.	Housing	ABCVR 2700	4	4
28.	Screw	ABCVR 2800	16	16
29.	Bellows	ABCVR 2900	4	4
30.	Pin	ABCVR 3000	4	4
31.	Pin	ABCVR 3100	4	4
32.	Nut	ABCVR 3200	4	4
33.	Lever	ABCVR 3300	4	4
34.	Ball	ABCVR 3400	4	4
35.	Seal Kit	ABCVR 3500	1	1

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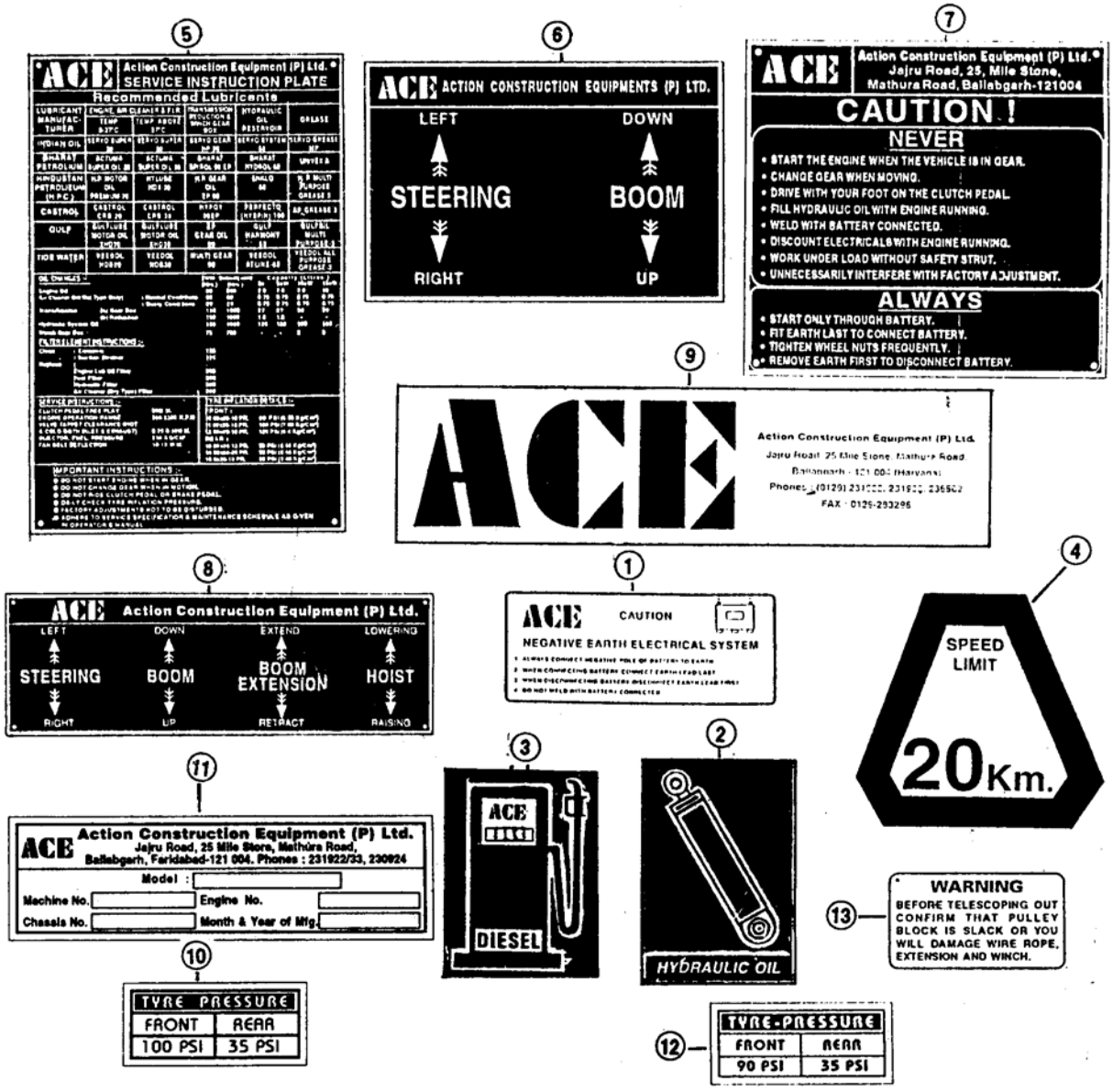
FIGURE NO. 58

DECALS



ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
1.	Electrical Caution Sticker	ABDS 0100	1	1
2.	Hydraulic Oil Sticker	ABDS 0200	1	1
3.	Diesel Sticker	ABDS 0300	2	2
4.	Speed Limit Sticker	ABDS 0400	1	1
5.	Service Instruction Plate	ABDP 0500	1	1
6.	Control Valve Plate	ABDP 0600	-	-
7.	Caution Plate	ABDP 0700	1	1

ITEM NO.	DESCRIPTION	PART NO.	QTY.	
			12XW	14XW
8.	Control Valve Plate	ABDP 0800	1	1
9.	Name Plate	ABDP 0900	1	1
10.	Air Pressure Sticker	ABDP 1000	1	1
11.	Date Plate	ABDP 1100A	1	1
12.	Air Pressure Sticker	ABDP 1200	-	-
13.	Warning Sticker	ABDS 1300	1	1

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MODIFICATIONS / ADDITIONS

Item No.	DESCRIPTION	Part No.	Fig. No.	Page No.	Remarks

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ACE

MODIFICATIONS / ADDITIONS

Item No.	DESCRIPTION	Part No.	Fig. No.	Page No.	Remarks