

PARTS BOOK

No 2

MASSEY-FERGUSON

250

LOADER

CENTRAL PARTS OPERATION

Massey-Ferguson (United Kingdom) Ltd.

PUBLICATION No. 819 547 M1

GENERAL INFORMATION

THIS BOOK IS PRINTED IN TWO SECTIONS. THE FIRST SECTION CONTAINS A PICTORIAL AND GROUP INDEX PLUS A NUMERICAL INDEX OF ALL PART NUMBERS INCLUDED IN THIS BOOK. THE PAGES IN THIS SECTION ARE NUMBERED WITH ROMAN NUMERALS.

THE SECOND SECTION INCLUDES A PART NUMBER LISTING, REFERENCED TO ITEM NUMBERS ON THE ILLUSTRATED PAGE DIRECTLY OPPOSITE. PAGES IN THIS SECTION ARE NUMBERED WITH ARABIC NUMERALS.

THE PAGE NUMBERS APPEAR IN THE UPPER OUTER CORNER OF THE PAGE. PARTS BOOK NUMBER AND DATE APPEAR IN THE LOWER RIGHT HAND CORNER OF THE PAGE. ALL PAGES WILL ALSO CARRY THE MACHINE NAME TO ASSIST IN IDENTIFYING THE MACHINE TO WHICH THE PARTS BOOK APPLIES

WHEN CHANGES TO THE MACHINE OCCUR, THE INFORMATION WILL BE ISSUED IN THE FORM OF A "PARTS RELEASE AND CHANGE BULLETIN". INFORMATION FROM THESE BULLETINS SHOULD BE ENTERED IN THE APPROPRIATE PAGES AS SOON AS THE BULLETINS ARE RECEIVED.

FROM TIME TO TIME NEW OR REVISED PAGES FOR THIS BOOK WILL BE ISSUED. THE REVISED PAGES WILL CARRY THE SAME PAGE NUMBERS AS THOSE THEY REPLACE. NEW PAGES WILL CARRY AN EXISTING PAGE NUMBER WITH AN ALPHA SUFFIX, THESE WILL BE INSERTED IN THE PARTS BOOK FOLLOWING THE EXISTING PAGE. THE ISSUE NUMBER AND DATE WILL BE ADVANCED FOR NEW AND REVISED PAGES.

IT IS IMPERATIVE THAT NEW AND REVISED PARTS BOOK PAGES BE INSERTED INTO THEIR RESPECTIVE PARTS BOOKS AS SOON AS THEY ARE RECEIVED. FAILURE TO DO SO WILL LEAD TO CONFUSION AND DEFEAT THE PURPOSE OF THE BOOK.

INDENTED PARTS IN THE DESCRIPTIVE LIST ARE A PART OF THE PRECEDING ASSEMBLY OR SUB-ASSEMBLY.

THE QUANTITY SHOWN IN THE "NUMBER REQUIRED" COLUMN IS THE NUMBER OF PARTS USED ON A MACHINE, EXCEPT WHERE PARTS ARE INDENTED IN THE DESCRIPTIVE LIST. IN THIS CASE THE QUANTITY SHOWN IS THE NUMBER REQUIRED FOR THE PRECEDING ASSEMBLY OR SUB-ASSEMBLY.

FOR CERTAIN PARTS, SUCH AS KITS, SHIMS, ETC. AN "X" WILL BE SHOWN IN THE "NUMBER REQUIRED" COLUMN. THIS "X" INDICATES THAT THE QUANTITY IS "AS REQUIRED".

FOREWORD

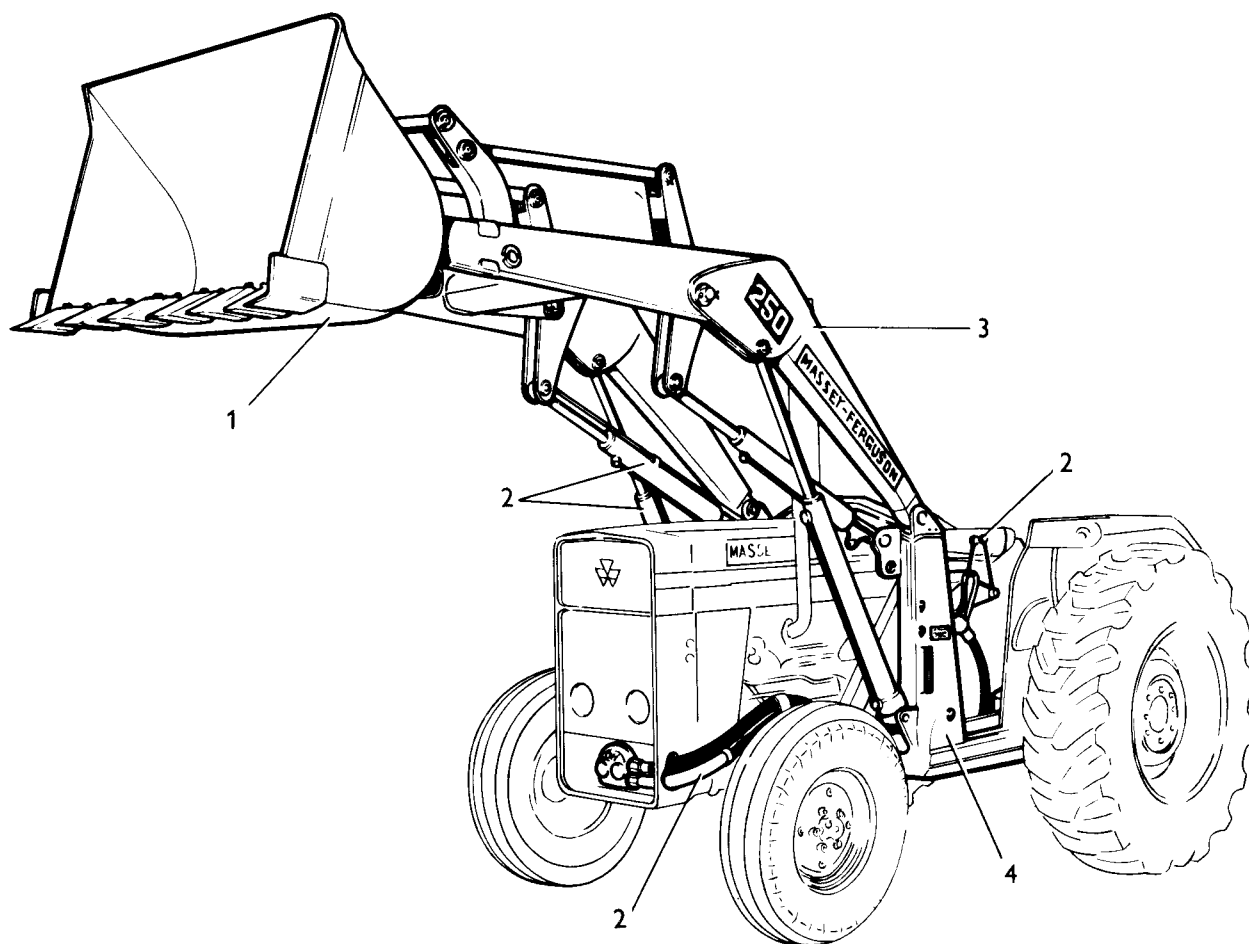
**MASSEY-FERGUSON TRACTORS, COMBINES,
BALERS AND IMPLEMENTS ARE DESIGNED AND BUILT
FOR MAXIMUM PERFORMANCE AND LONG LIFE. ALL
SERVICE PARTS ARE MANUFACTURED WITH THE SAME
CARE AND PRECISION EXERCISED IN PRODUCTION.**



STOCK AND SELL ONLY MASSEY-FERGUSON PARTS

YOUR CUSTOMER EXPECTS IT OF YOU

CPO 1894



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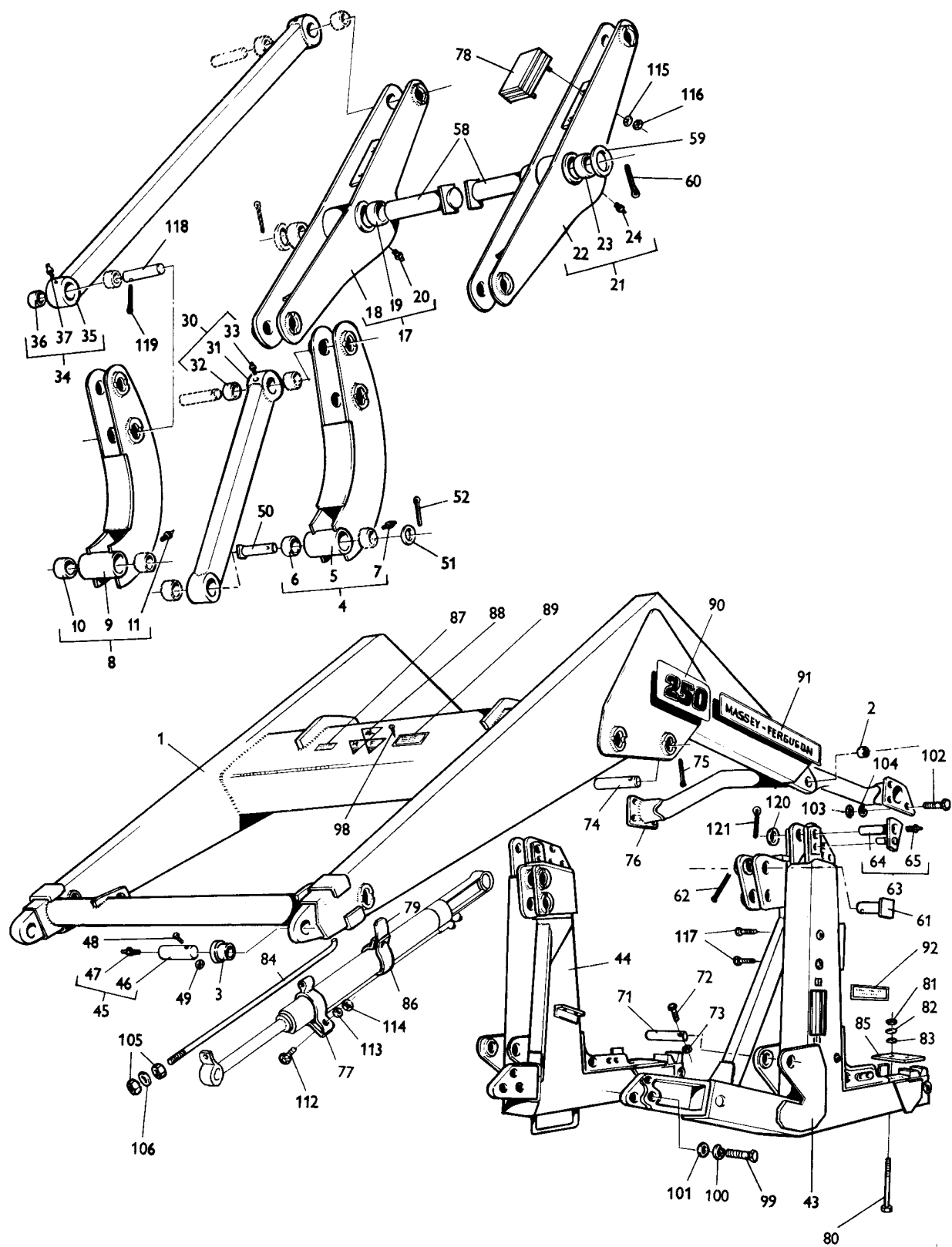
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195 351 M1.....	30	358 760 X91.....	25	862 671 M91.....	2
196 030 M1.....	25	358 799 X1.....	21	862 672 M1.....	2
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353 428 X1.....	25	376 971 X1.....	6	862 708 M91.....	2
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353 555 X1.....	5	835 026 M1.....	6	862 857 M1.....	6
353 593 X1.....	29	835 057 M91.....	6	862 859 M91.....	6,9
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353 758 X1.....	5,22,23	862 500 M91.....	2	862 879 M91.....	6
353 916 X1.....	9	862 574 M91.....	2	862 880 M91.....	6
353 918 X1.....	5,22	862 575 M91.....	2	862 881 M91.....	6
354 074 X1.....	30	862 589 M1.....	2	862 882 M91.....	18
354 276 X1.....	26	862 617 M91.....	2	862 883 M91.....	21
354 278 X1.....	6	862 620 M91.....	2	862 884 M91.....	9
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354 285 X1.....	33	862 625 M91.....	33	862 892 M1.....	2
354 300 X1.....	26,29	862 626 M92.....	2	862 896 M1.....	5
354 302 X1.....	29	862 627 M1.....	2	862 897 M91.....	2
354 489 X1.....	22	862 631 M91.....	2	862 898 M1.....	5
354 501 X1.....	9	862 637 M91.....	33	862 908 M1.....	30
354 568 X1.....	30	862 639 M91.....	33	862 910 M91.....	30
354 712 X1.....	5	862 649 M1.....	33	862 911 M91.....	30
354 716 X1.....	6	862 650 M1.....	33	862 982 M1.....	29
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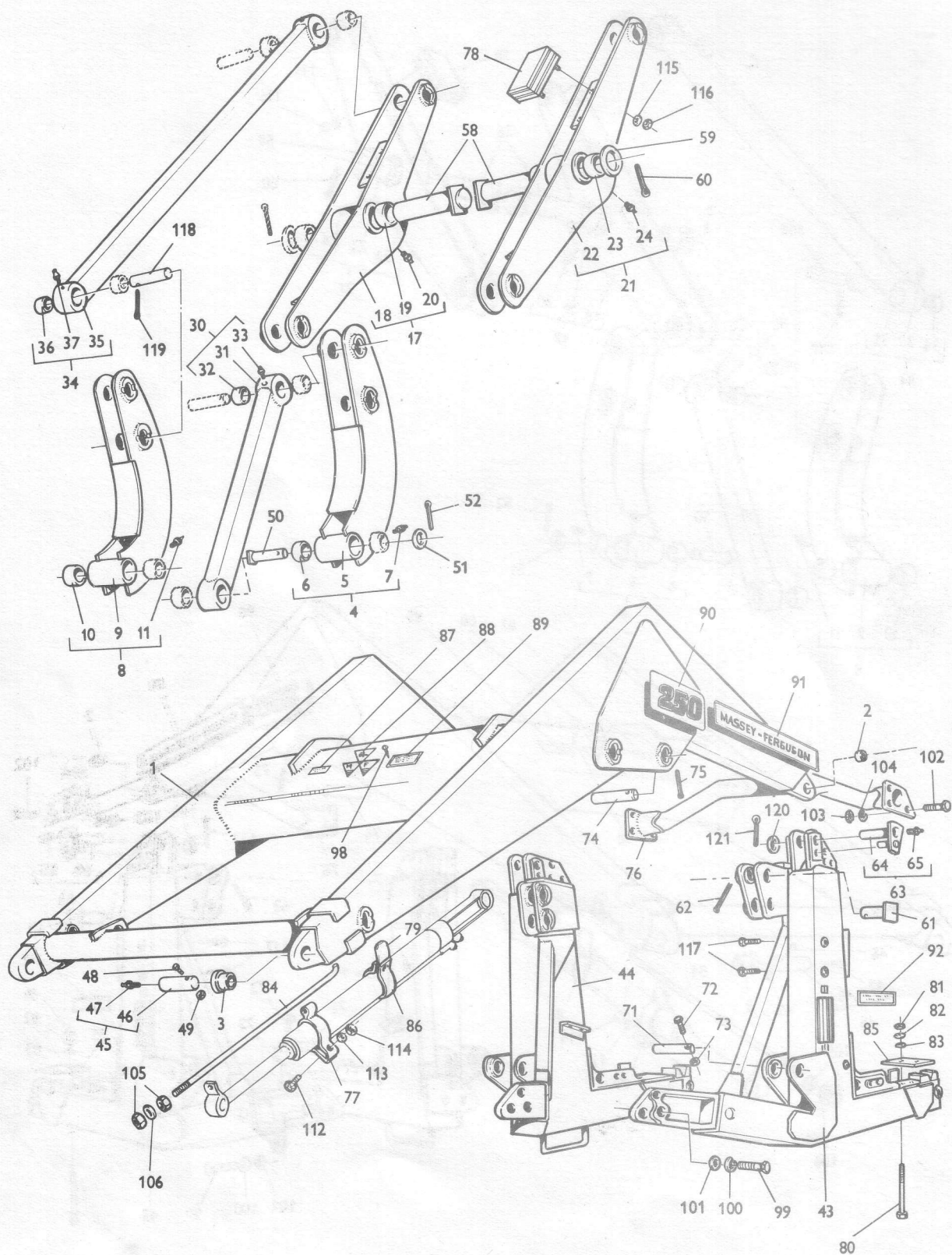
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863 045 M91.....	6	1024 129 M1.....	14,17	1884 166 M1.....	18
863 047 M1.....	9	1025 726 M1.....	21	1884 167 M1.....	18
863 052 M1.....	6	1029 841 M1.....	14	1884 168 M1.....	18
863 054 M1.....	5	1029 842 M1.....	14	1884 169 M1.....	18
863 055 M1.....	5	1029 844 M1.....	14	1884 170 M1.....	18
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895 363 M1.....	6,9	1810 055 M91.....	18	1884 442 M1.....	14
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895 488 M1.....	22	1810 066 M91.....	17	1884 446 M1.....	17
895 574 M1.....	6,9	1851 258 M1.....	14	1884 447 M1.....	17
895 798 M91.....	9	1852 282 M1.....	6,9	1884 448 M1.....	14
895 799 M91.....	9	1852 607 M1.....	6,9	1884 449 M1.....	14
895 800 M91.....	9	1852 688 M1.....	9	1884 450 M1.....	14
895 801 M91.....	6	1852 689 M1.....	9	1884 451 M1.....	14
895 804 M1.....	6	1852 690 M1.....	9	1884 452 M1.....	14
895 834 M1.....	9	1852 691 M1.....	9	1884 461 M1.....	18
895 835 M1.....	6	1852 779 M1.....	13	1884 466 M1.....	18
895 892 M91.....	6	1852 781 M1.....	13	1884 467 M1.....	21
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1021 415 M1.....	10	1852 914 M91.....	6	1884 548 M1.....	22
1021 416 M1.....	10	1852 915 M1.....	6	1884 549 M91.....	22
1021 417 M91.....	10	1881 527 M1.....	21	1884 550 M1.....	22
1021 418 M91.....	10	1884 146 M91.....	10	1884 551 M1.....	22
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1021 696 M1.....	14	1884 155 M1.....	18	1884 599 M1.....	13
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<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description.</u>	<u>No.</u> <u>Req.</u>
1	862 575 M91	Beam, Lift, Assembly ...	1
2	705 408 M1	Bushing ...	2
3	862 589 M1	Bush, Locating ...	2
4	862 705 M91	Lever, Front, Assembly ...	1
5		Leaver, Order 862 705 M91 ...	1
6	862 627 M1	Bushing, Link ...	2
7	MP. 1056	Greaser ...	1
8	862 705 M91	Lever, Front, Assembly ...	1
9		Lever, Order 862 705 M91 ...	1
10	862 627 M1	Bushing Link. ...	2
11	MP. 1056	Greaser ...	1
17	862 696 M91	Lever, Rear, Assembly ...	1
18		Lever, Order 862 696 M91 ...	1
19	862 691 M1	Bushing, Lever, Pivot ...	2
20	MP. 1056	Greaser ...	1
21	862 696 M91	Lever, Rear, Assembly ...	1
22		Lever, Order 862 696 M91 ...	1
23	862 691 M1	Bushing, Lever, Pivot ...	2
24	MP. 1056.	Greaser ...	1
30	862 626 M91	Link, Front, Assembly ...	2
31		Link, Order 862 626 M91 ...	2
32	862 627 M1	Bushing, Link ...	4
33	MP. 1056	Greaser ...	2
34	862 631 M91	Link, Rear, Assembly ...	2
35		Link, Order 863 631 M91 ...	2
36	862 627 M1	Bushing, Link ...	8
37	MP. 1056.	Greaser ...	4
43	862 500 M91	Frame, R.H. Assembly ...	1
44	862 574 M91	Frame, L.H. Assembly ...	1
45	862 662 M91	Pin Bucket Pivot ...	4
46		Pin, Order 862 662 M91 ...	4
47	MP. 1056.	Greaser ...	4
48	353 552 X1	Bolt ...	4
49	376 448 X1	Nut, Lock ...	4
50	862 620 M91	Pin, Frame, Lever, Pivots. ...	2
51	862 624 X1	Washer ...	2
52	375 096 X1	Pin, Split ...	2
58	862 617 M91	Pin, Lever Pivots. ...	2
59	862 666 M1	Washer ...	X
60	375 096 X1	Pin, Split ...	X
61	862 665 M91	Pin, Assembly ...	2
62	375 096 X1	Pin, Split ...	2
63	862 671 M91	Pin, Arm, Pivot ...	2
64		Pin, Order 862 671 M91 ...	2
65	MP. 1056.	Greaser ...	2
71	862 672 M1	Pin, Lift, Ram, Pivot Lower ...	2
72	353 552 X1	Bolt ...	2
73	376 448 X1	Nut, Lock ...	2
74	862 663 M1	Pin, Lock Pivot ...	4
75	375 096 X1	Pin, Split ...	8
76	862 708 M91	Tie, Cross Upper ...	1
77	862 897 M91	Clip, Assembly ...	1
78	862 989 M91	Buffer Assembly ...	2
79	862 892 M1	Pointer ...	1
80	862 800 M1	Bolt ...	4
81	353 427 X1	Nut ...	4
82	353 623 X1	Washer ...	4
83	353 433 X1	Washer ...	4

CPO 1882



CPO 1882



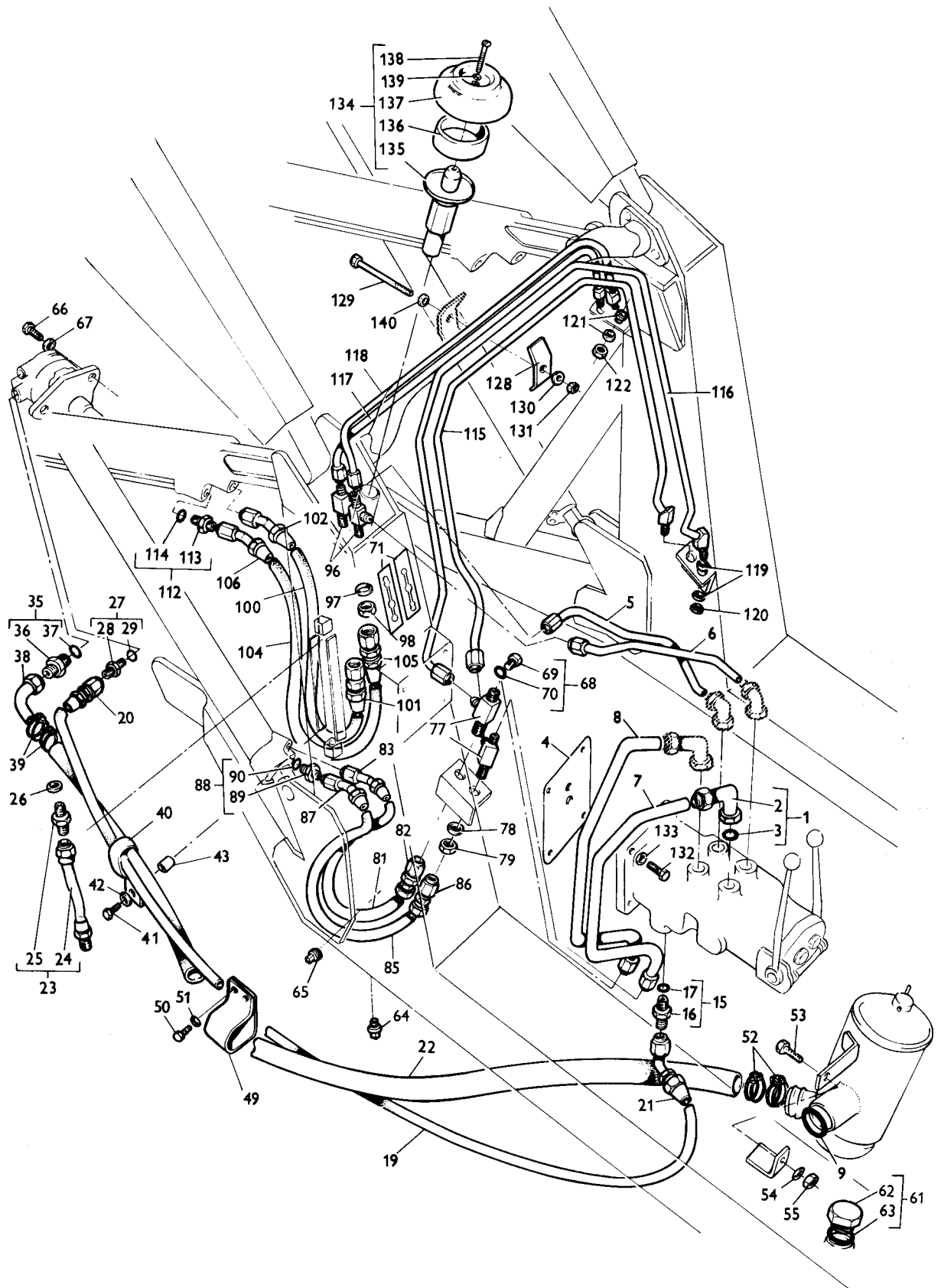
LOADER ARMS & SIDE FRAMES
(Continued)

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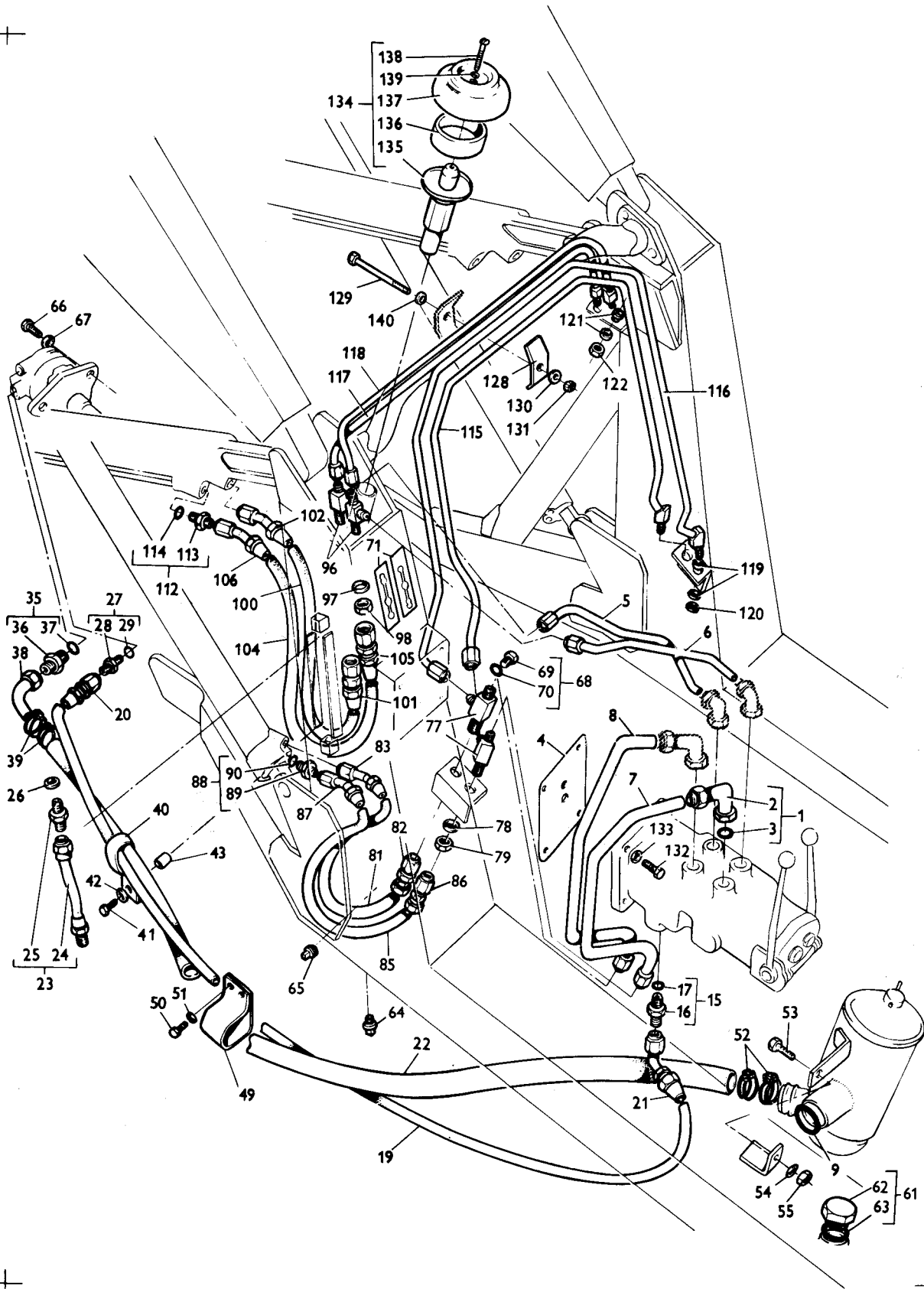
<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description.</u>	<u>No.</u> <u>Req</u>
84	862 896 M1	Rod, Indicator	4
85	824 855 M1	Plate, Packing	2
86	862 898 M1	Clip	1
87	196 162 M1	Decal	1
88	888 856 M1	Emblem	1
89	810 299 M2	Plate, Name	1
90	863 054 M1	Decal, 250	2
91	863 055 M1	Decal, M.F.	2
92	861 748 M1	Transfer, Oil	1
98	353 448 X1	Screw, Drive	2
99	354 712 X1	Bolt	6
100	353 440 X1	Washer	6
101	355 624 X1	Washer	6
102	353 597 X1	Bolt	6
103	353 437 X1	Nut	6
104	353 439 X1	Washer	6
105	353 438 X1	Nut, Lock	2
106	353 758 X1	Washer	2
112	353 503 X1	Bolt	2
113	353 754 X1	Washer	2
114	353 918 X1	Nut	2
115	353 434 X1	Washer	4
116	353 431 X1	Nut	4
117	353 555 X1	Bolt	4
118	862 663 M1	Pin, Lock, Pivot	6
119	375 096 X1	Pin, Split	12
120	862 624 X1	Washer	X
121	375 096 X1	Pin, Split	X

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u> <u>Req.</u>
1	835 007 M91	Elbow Connection, 90° ...	4
2		Elbow, Order 835 007 M91 ...	1
3	1852 282 M1	'O' Ring ...	1
4	862 857 M1	Gasket ...	1
5	862 881 M91	Tube, Valve, Assembly ...	1
6	862 880 M91	Tube, Valve, Assembly ...	1
7	862 878 M91	Tube, Valve, Assembly ...	1
8	862 879 M91	Tube, Valve, Assembly ...	1
9	376 971 X1	'O' Ring ...	1
15	835 057 M91	Connector, Male/Male ...	1
16		Connector, Order 835 057 M91 ...	1
17	835 025 M1	'O' Ring ...	1
18	895 892 M91	Hose, Pressure Assembly, Not Serviced, Order Details ...	1
19	895 893 M1	Hose, Not serviced, Use 102 7/16" of 892 222 M1 (30') or 895 237 M1 (60') ...	1
20	895 894 M1	Connection, Female ...	1
21	895 835 M1	Connection, Female, 135° elbow ...	1
22	895 804 M1	Hose, Suction, Not Serviced Use 73" of 895 882 M1 (30') or 895 883 M1 (60') ...	1
23	1852 914 M91	Hose, Clear, Assembly ...	1
24		Hose Assembly Order 1852 914 M1 ...	1
25	1852 915 M1	Union, Double Bodied ...	1
26	823 260 M1	Washer, Fibre ...	2
27	835 057 M91	Connector, Male/Male ...	1
28		Connector Order 835 057 M91 ...	1
29	835 025 M1	'O' Ring ...	1
35	862 856 M91	Adaptor, Assembly ...	1
36		Adaptor, Assembly Order 862 856 M91 ...	1
37	835 026 M1	'O' Ring ...	1
38	863 045 M91	Tube, Suction, Assembly ...	1
39	375 227 X1	Clip, Hose ...	2
40	862 861 M1	Clip, Hose ...	1
41	354 716 X1	Bolt ...	1
42	353 446 X1	Washer ...	1
43	863 052 M1	Spacer ...	1
49	862 863 M1	Clip, Hose ...	1
50	353 501 X1	Bolt ...	2
51	353 441 X1	Washer, Lock ...	2
52	375 227 X1	Clip, Hose ...	2
53	353 538 X1	Bolt ...	1
54	353 434 X1	Washer, Lock ...	1
55	353 431 X1	Nut ...	1
61	823 340 M91	Plug Assembly, Not Serviced, Order details ...	1
62	823 338 M1	Plug ...	1
63	835 026 M1	'O' Ring ...	1
64	861 930 M1	Plug ...	1
65	375 181 X1	Plug ...	1
66	354 278 X1	Bolt ...	2
67	353 439 X1	Washer, Lock ...	2
68	358 722 X91	Plug, Assembly ...	1
69		Plug, Order 358 722 M91 ...	1
70	831 495 M1	'O' Ring ...	1
71	862 837 M1	Decal, Spool Valve ...	1
77	862 859 M91	Box, Junction ...	2
78	862 991 M1	Washer, Special ...	4
79	1852 607 M1	Nut, Lock ...	2

CPO 1883



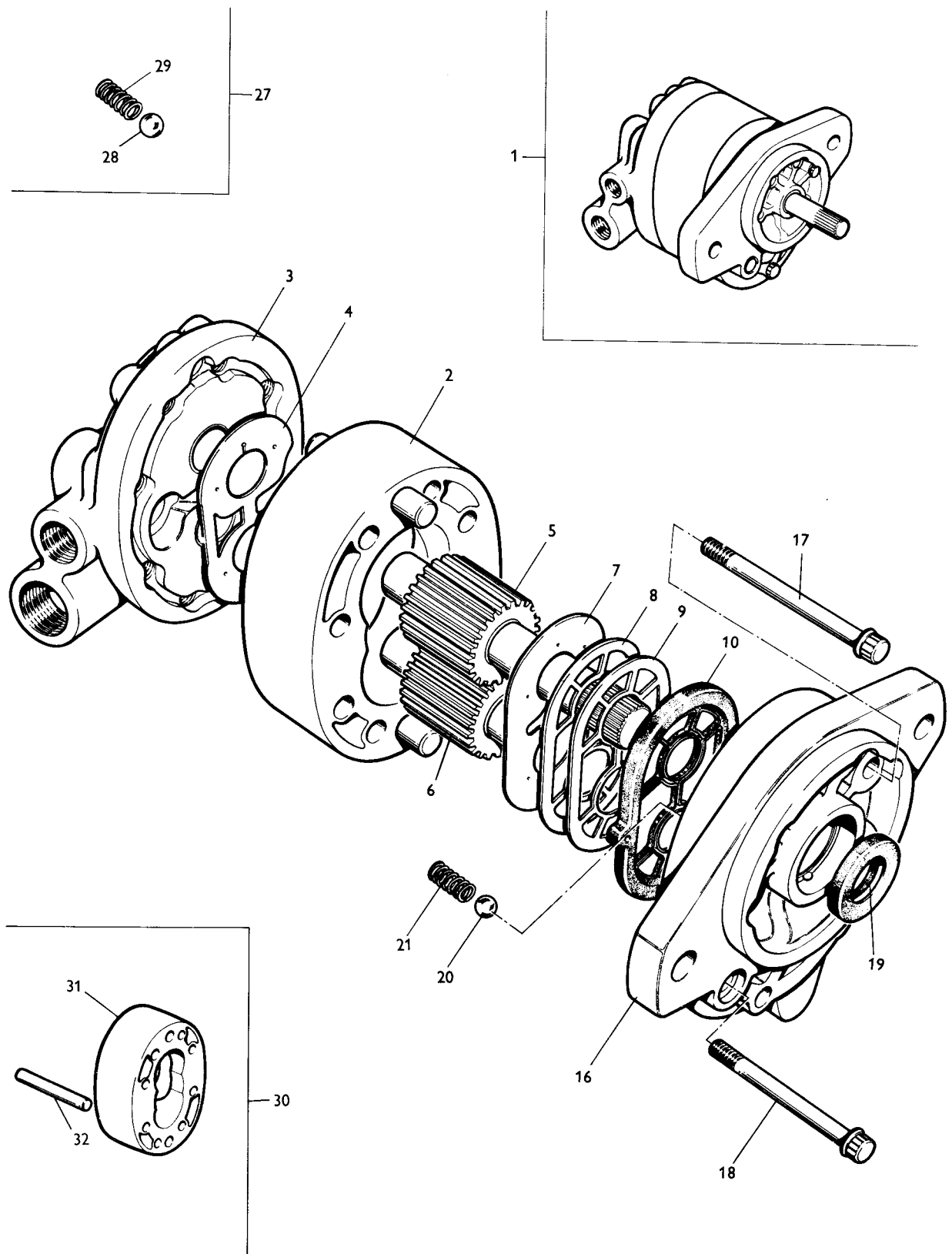
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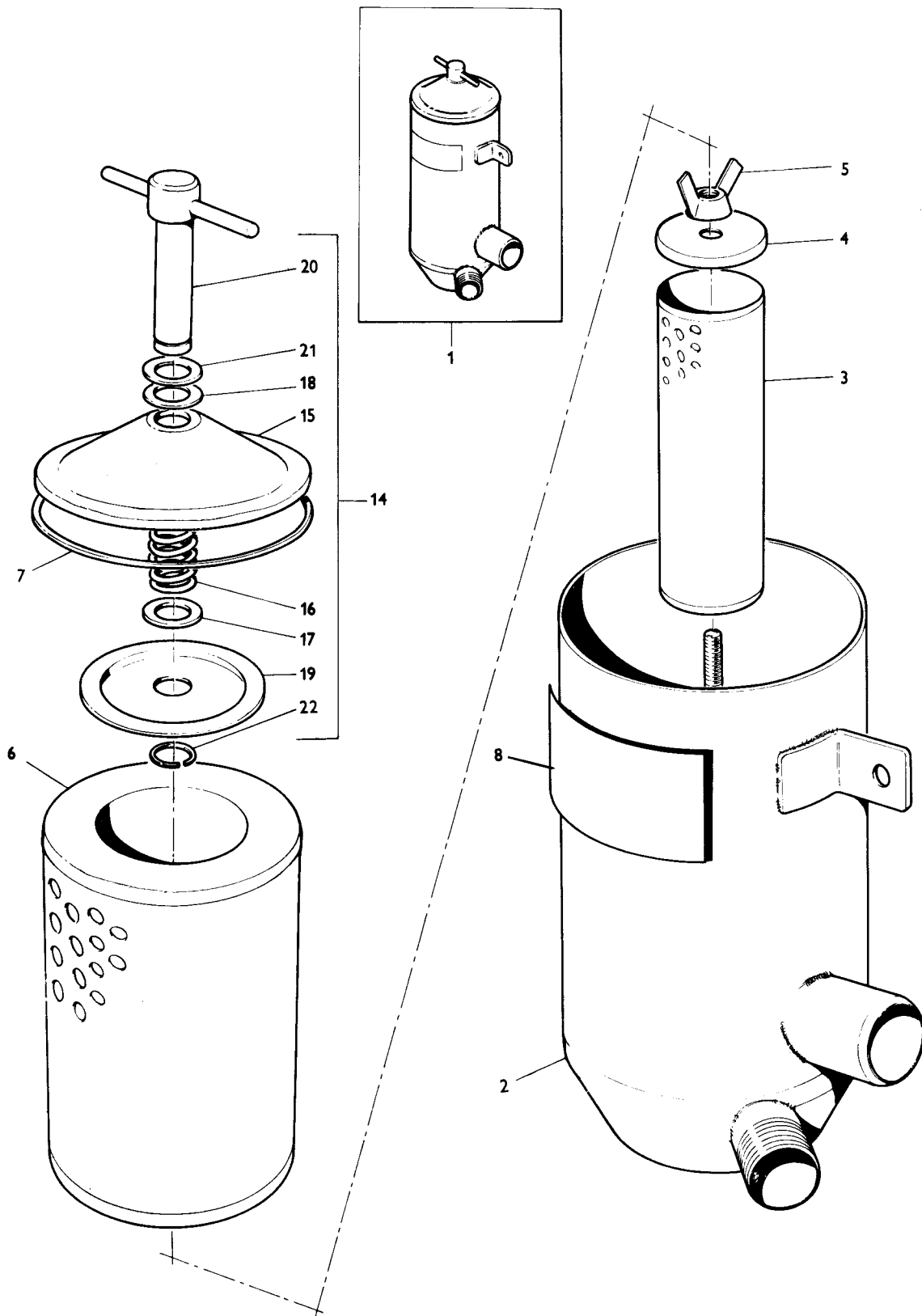
<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u> <u>Req.</u>
80	895 801 M91	Hose Assembly Lift Ram, Not Serviced, Order Details	2
81	895 179 M1	Hose, pressure not serviced Use 21 1/8" of 895 225 M1 (30') or 895 236 M1 (60')	1
82	895 574 M1	Connection	1
83	895 363 M1	Connection	1
84	895 799 M91	Hose Assembly Lift Ram, Not Serviced, Order details	2
85	895 179 M1	Hose, Pressure, Not serviced Use 25" of 895 225 M1 (30') or 895 236 M1 (60')	1
86	895 574 M1	Connection	1
87	895 363 M1	Connection	1
88	835 013 M91	Connector, Male/Male	2
89	358 735 X1	Connector	2
90	1852 282 M1	'O' Ring	2
96	862 859 M91	Box, Junction	2
97	862 991 M1	Washer, Special	4
98	1852 607 M1	Nut, Lock	2
99	895 800 M91	Hose, Bucket Ram, Not serviced Order details	2
100	895 181 M1	Hose, Pressure Not serviced Use 28" of 895 225 M1 (30') or 895 236 M1 (60')	1
101	895 363 M1	Connection	1
102	895 574 M1	Connection	1
103	895 798 M91	Hose, Bucket Ram, Not Serviced Order details	2
104	895 834 M1	Hose, Pressure, Not Serviced Use 3 1/4" of 895 225 M1 (30') or 895 236 M1 (60')	1
105	895 363 M1	Connection	1
106	895 574 M1	Connection	1
112	835 013 M91	Connection, Male/Male	2
113	358 735 X1	Connector	2
114	1852 282 M1	'O' Ring	2
115	862 884 M91	Tube, Lift Ram, Assembly	1
116	862 885 M91	Tube, Lift Ram, Assembly	1
117	862 876 M91	Tube, Bucket Ram, Assembly	1
118	862 877 M91	Tube, Bucket Ram, Assembly	1
119	862 991 M1	Washer, Special	4
120	1852 607 M1	Nut, Lock	2
121	862 991 M1	Washer, Special	4
122	1852 607 M1	Nut, Lock	2
128	863 047 M1	Clip	2
129	354 501 X1	Bolt	1
130	353 755 X1	Washer	1
131	353 916 X1	Nut	1
132	353 693 X1	Bolt	4
133	353 434 X1	Washer, Lock	4
134	861 997 M92	Breather, Assembly	1
135		Base Order 861 997 M92	1
136	1852 689 M1	Element	1
137	1852 688 M1	Cap	1
138	1852 690 M1	Screw	1
139	1852 691 M1	Washer	1
140	353 755 X1	Washer	1

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u> <u>Req.</u>
1	862 873 M91	Pump, Assembly ...	1
2		Body, Order 1810 045 M91 ...	1
3	1884 146 M91	Plate, Back, Assembly ...	1
4	1021 423 M1	Plate, Thrust ...	1
5	1021 418 M91	Gear, Drive, Assembly ...	1
6	1021 420 M91	Gear, Idler, Assembly ...	1
7	1021 415 M1	Diaphragm, Pump ...	1
8	1021 413 M1	Gasket, Back-Up ...	1
9	1021 414 M1	Gasket, Protector ...	1
10	1021 417 M91	Seal, Diaphragm ...	1
16	1021 422 M91	Plate, Front, Assembly ...	1
17	1021 426 M1	Screw ...	4
18	1021 425 M1	Screw ...	4
19	1021 416 M1	Seal, Shaft ...	1
20		Ball, Order, 1810 019 M91 ...	2
21		Spring, Order 1810 019 M91 ...	2
27	1810 019 M91	Kit, Repair, Ball and Spring ...	X
28		Ball, Order 1810 019 M91 ...	2
29		Spring, Order 1810 019 M91 ...	2
30	1810 045 M91	Kit, Repair, Body and Dowel ...	X
31		Body, Order 1810 045 M91 ...	1
32		Dowel, Order 1810 045 M91 ...	2

CPO 1884



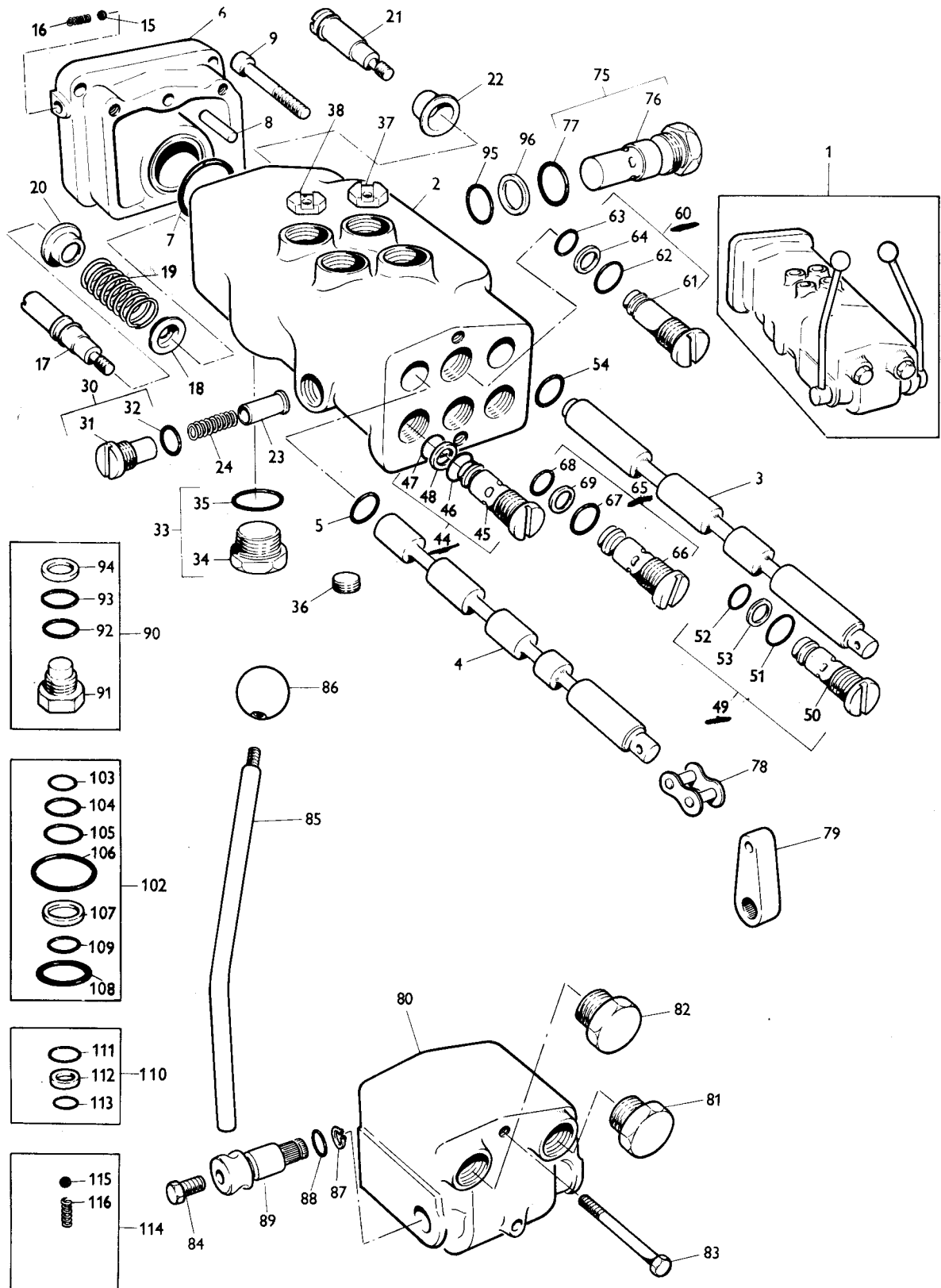
CPO 1885



<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description.</u>	<u>No.</u> <u>Req</u>
1	862 843 M91	Filter, Oil, Assembly ...	1
2	1884 586 M1	Body, Filter ...	1
3	1852 782 M1	Mesh, Inner ...	1
4	1852 785 M1	Cap, Mesh, Retaining ...	1
5	1884 589 M1	Nut, Wing, Retaining ...	1
6	1852 781 M1	Element, Filter ...	1
7	1852 779 M1	Gasket, Cover to Body ...	1
8	1884 600 M1	Transfer, Instruction ...	1
14		Cover, Assembly, Not Serviced, Order Details ...	1
15	1852 802 M1	Cover, Filter ...	1
16	1852 803 M1	Spring, Tension ...	1
17	1852 800 M1	Washer, Spring, Retaining ...	1
18	1852 797 M1	Seal, Cover Screw ...	1
19	1852 801 M1	Plate, Element, Pressure ...	1
20	1852 798 M1	Screw, Cover ...	1
21	1884 598 M1	Washer, Screw to Cover ...	1
22	1884 599 M1	Circlip, Cover Screw ...	1

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u> <u>Req.</u>
1	862 811 M91	Valve, Assembly ...	1
2		Body, Order 862 811 M91...	1
3		Spool, Order 862 811 M91	1
4		Spool, Order 862 811 M91	1
5	1508 879 M1	'O' Ring, Spool to body	1
6	1884 396 M91	End, Assembly, Valve ...	1
7	1508 878 M1	'O' Ring, End Assembly to Body	1
8	357 149 X1	Pin, Dowel, End to Body...	2
9	1884 468 M1	Screw, End Assembly to Body	4
15		Ball, Spool, Screw, Order Kit 1810 049 M91	4
16		Spring, Order Kit 1810 049 M91	4
17	1884 450 M1	Screw, Spool, Boom ...	1
18	1029 844 M1	Washer, Spool ...	2
19	1029 842 M1	Spring, Spool ...	2
20	1029 841 M1	Washer, Spool ...	1
21	1884 449 M1	Screw, Spool, Bucket ...	1
22	1884 442 M1	Washer, Spool, Bucket Inner	1
23	1021 697 M1	Plunger, Lift, Check ...	2
24	1021 696 M1	Spring, Lift, Check ...	2
30	1021 752 M91	Plug, Assembly, Lift, Check	1
31		Plug, Order 1021 752 M91	1
32	1085 314 M1	'O' Ring ...	1
33(A)	1021 769 M91	Plug, Assembly, Pressure Beyond	1
34		Plug, Order 1021 769 M91	1
35	851 258 M1	'O' Ring, Plug ...	1
36	1884 416 M1	Plug, Gauge Outlet ...	1
37	1021 768 M1	Plate, Orifice, Bucket .205"	1
38	1021 957 M1	Plate, Orifice, Boom .25"	1
44	1884 391 M91	Valve, Assembly, Relief, 5000 P.S.I.	1
45		Body, Order 1884 391 M91	1
46	851 134 M1	'O' Ring, Valve, Head	1
47	359 295 X1	'O' Ring, Valve, Lower	1
48	1024 129 M1	Washer, Back-up ...	1
49	1884 391 M91	Valve, Assembly, Relief, 5000 P.S.I.	1
50		Body, Order 1884 391 M91	1
51	851 134 M1	'O' Ring, Valve, Head	1
52	359 295 X1	'O' Ring, Valve, Lower	1
53	1024 129 M1	Washer, Back-up ...	1
54	1508 879 M1	'O' Ring, Spool to Body	1
60	1884 390 M91	Valve, Assembly, Relief, 3,500 P.S.I.	1
61		Body, Order 1884 390 M91	1
62	851 134 M1	'O' Ring, Valve Head	1
63	359 295 X1	'O' Ring, Valve, Lower	1
64	1024 129 M1	Washer, Back-up ...	1
65	1884 389 M91	Valve, Assembly, Relief, 3000 P.S.I.	1
66		Body, Order 1884 389 M91	1
67	851 134 M1	'O' Ring, Valve Head	1
68	359 295 X1	'O' Ring, Valve, Lower	1
69	1024 129 M1	Washer, Back-up ...	1
75	1021 754 M91	Valve, Assembly, Relief 2125 P.S.I.	1
76		Body, Order 1021 754 M91.	1
77	831 617 M1	'O' Ring ...	1
78	329 260 M91	Link Lever to Spool ...	2
79	1884 452 M1	Lever, Handle to Spool ...	2
80(C)	1884 395 M91	Cap Assembly, Control Handle	1
81	1884 451 M1	Plug, Cap ...	1
82	1884 448 M1	Plug, Cap ...	1

CPO 1886



This diagram illustrates the exploded view of a mechanical assembly, likely a hydraulic cylinder or pump. The main components and their assembly sequence are as follows:

- Main Body (1):** The central component with multiple ports and mounting points.
- Piston Rod Assembly (3):** Consists of the piston rod (3), piston (4), and various seals (5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116).
- Seals and O-rings:** Various O-rings (103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113) and seals (114, 115, 116) are shown in their respective assembly positions.
- Fasteners and Pins:** Various pins (117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784,

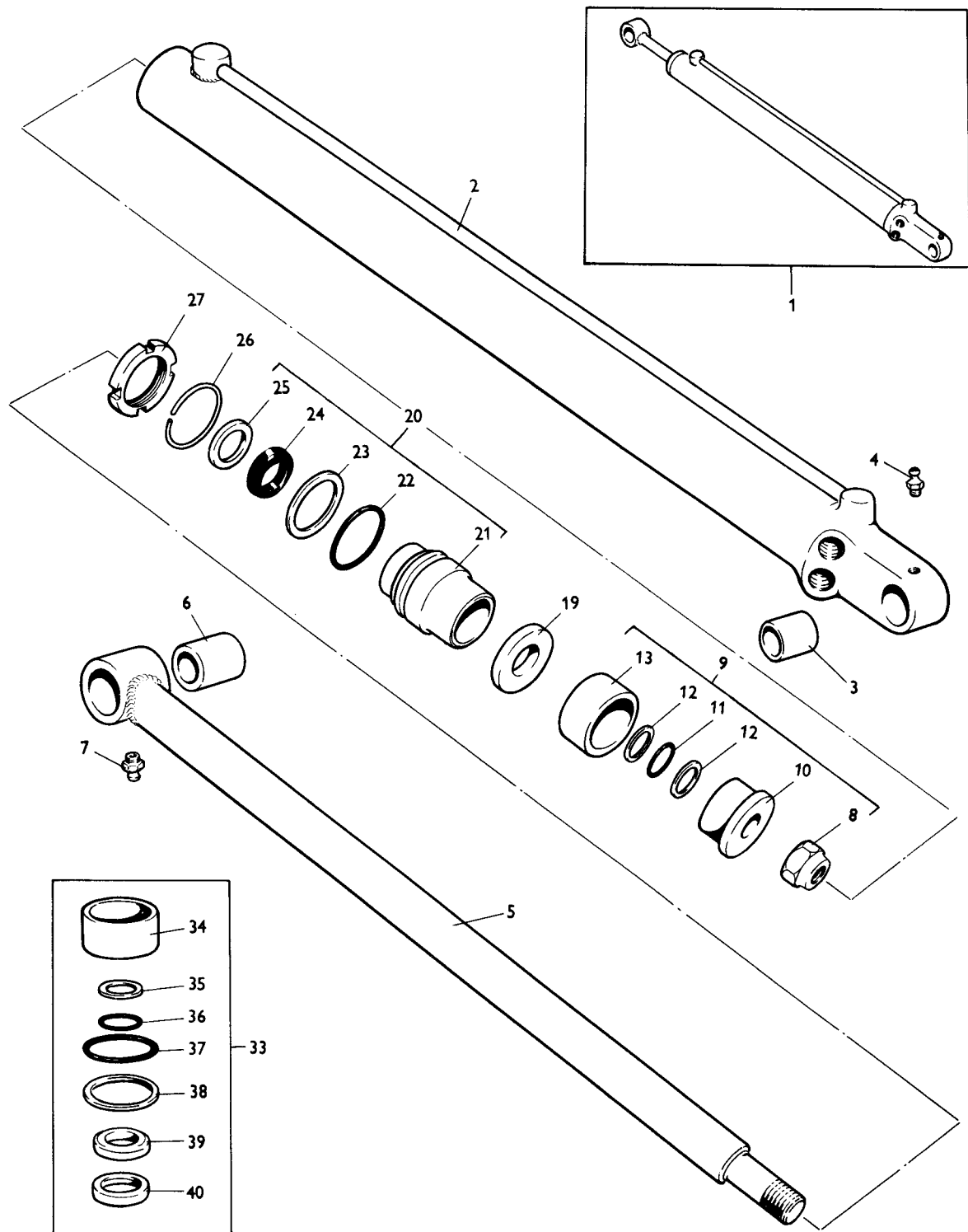
<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u> <u>Req.</u>
	862 811 M91	Valve Assembly - Continued	...
83	1884 436 M1	Screw, Cap to body	2
84	1884 412 M1	Screw, Handle to Shaft	2
85	1884 445 M1	Handle, Control	2
86	1884 447 M1	Knob, Control Handle	2
87	1884 435 M1	Circlip	2
88	196 055 M1	'O' Ring, Shaft to Cap Assembly	2
89	1884 446 M1	Shaft, Lever	2
90(B)	705 372 M91	Adaptor, Pressure Beyond	1
91		Plug, Pressure Beyond (Order 705 372 M91)	1
92	1085 314 M1	'O' Ring, Plug Head	1
93	831 617 M1	'O' Ring, Plug Lower	1
94	1023 028 M1	Washer, Back-Up	1
95	1085 623 M1	'O' Ring	1
96	1030 131 M1	Washer, Back-Up	1
102	1810 048 M91	Kit, Repair	X
103	196 055 M1	'O' Ring	2
104	1508 879 M1	'O' Ring	2
105	1085 623 M1	'O' Ring	1
106	1508 878 M1	'O' Ring	1
107	1030 131 M1	Washer, Back-Up	1
108	851 258 M1	'O' Ring	2
109	1085 314 M1	'O' Ring	1
110	1810 066 M91	Kit, Repair, Seal	X
111	851 134 M1	'O' Ring	1
112	1024 129 M1	Washer, Back-Up	1
113	359 295 X1	'O' Ring	1
114	1810 049 M91	Kit, Repair, Ball & Spring	X
115		Ball, Order 1810 049 M91	4
116		Spring, Order 1810 049 M91	4

Notes:-

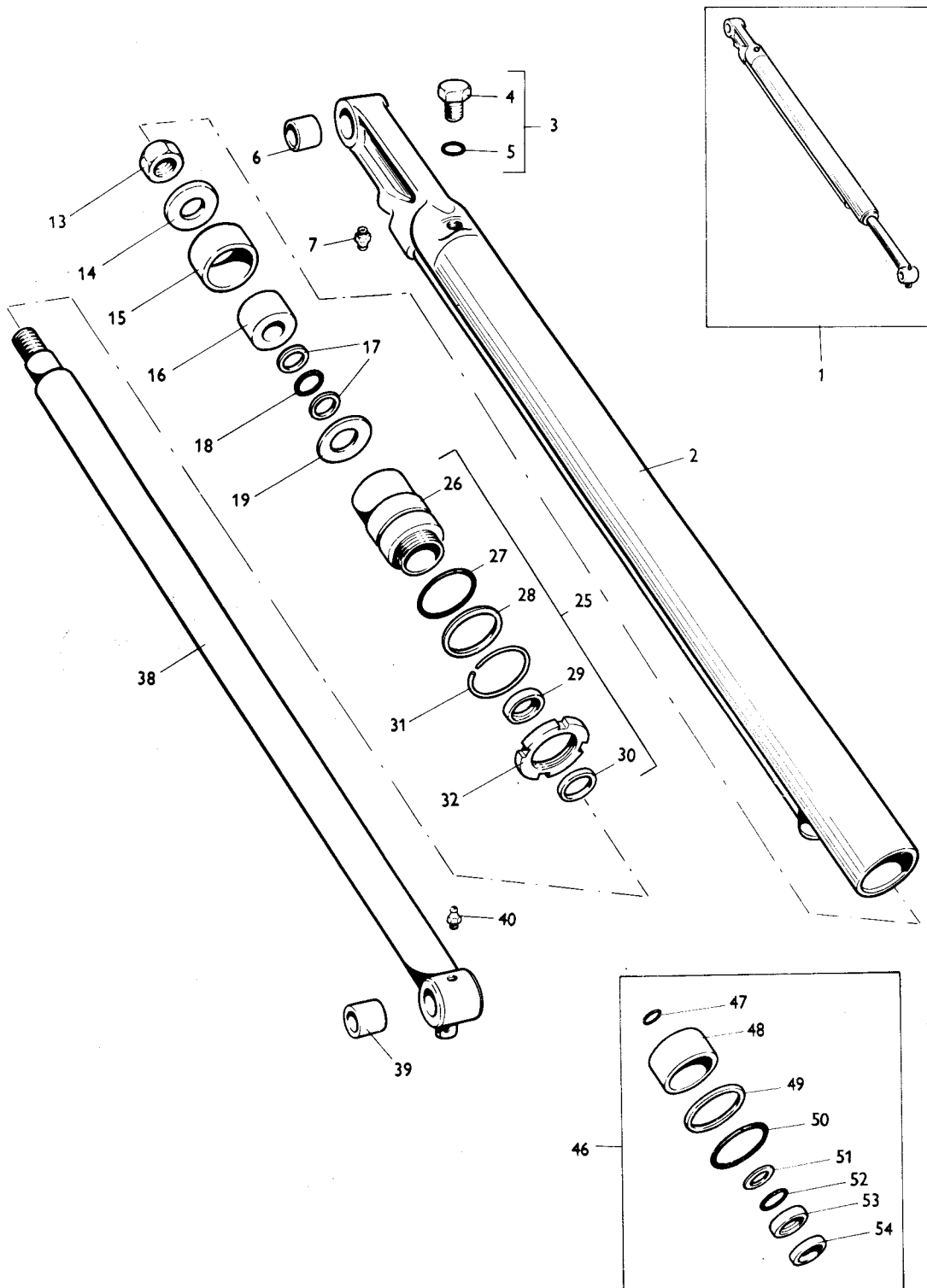
- (A) Fitted when 705 372 M91 is not fitted.
 (B) Fitted when 1021 769 M91 is not fitted.
 (C) Not Required when kick-out Cylinder is used.

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u> <u>Req.</u>
1	862 882 M91	Cylinder, Assembly ...	2
2	1884 165 M1	Barrel, Cylinder ...	1
3	1884 461 M1	Bush, Barrel ...	1
4	200 191 M1	Greaser, Barrel Bush ...	1
5	1884 166 M1	Rod, Piston ...	1
6	1884 154 M1	Bush, Piston, Rod ...	2
7	200 191 M1	Greaser, Piston Rod Bush ...	1
8	1086 552 M1	Nut, Piston ...	1
9	1884 174 M91	Piston, Assembly ...	1
10		Piston, Order 1884 174 M91 ...	1
11	1006 335 M1	'O' Ring, Piston to Rod ...	1
12	1021 482 M1	Washer, Back-Up ...	2
13	1884 167 M1	Packing, Piston ...	1
19	1884 168 M1	Washer, Piston ...	1
20	1884 175 M91	Bearing, Assembly ...	1
21		Bearing, Order 1884 175 M91 ...	1
22	1884 169 M1	'O' Ring Bearing to Barrel ...	1
23	1884 170 M1	Washer, Back-Up ...	1
24	1884 466 M1	Seal, Shaft Inner ...	1
25	1884 441 M1	Seal, Shaft Outer ...	1
26	1884 155 M1	Circlip, Bearing Lock ...	1
27	1884 173 M1	Nut, Bearing Lock ...	1
33	1810 055 M91	Kit, Repair, Major Seal ...	X
34	1884 167 M1	Packing, Piston ...	1
35	1021 482 M1	Washer, Back-Up ...	2
36	1006 335 M1	'O' Ring ...	1
37	1884 169 M1	'O' Ring ...	1
38	1884 170 M1	Washer Back-Up ...	1
39	1884 466 M1	Seal, Shaft, Inner ...	1
40	1884 441 M1	Seal, Shaft, Outer ...	1

CPO 1887



CPO 1888

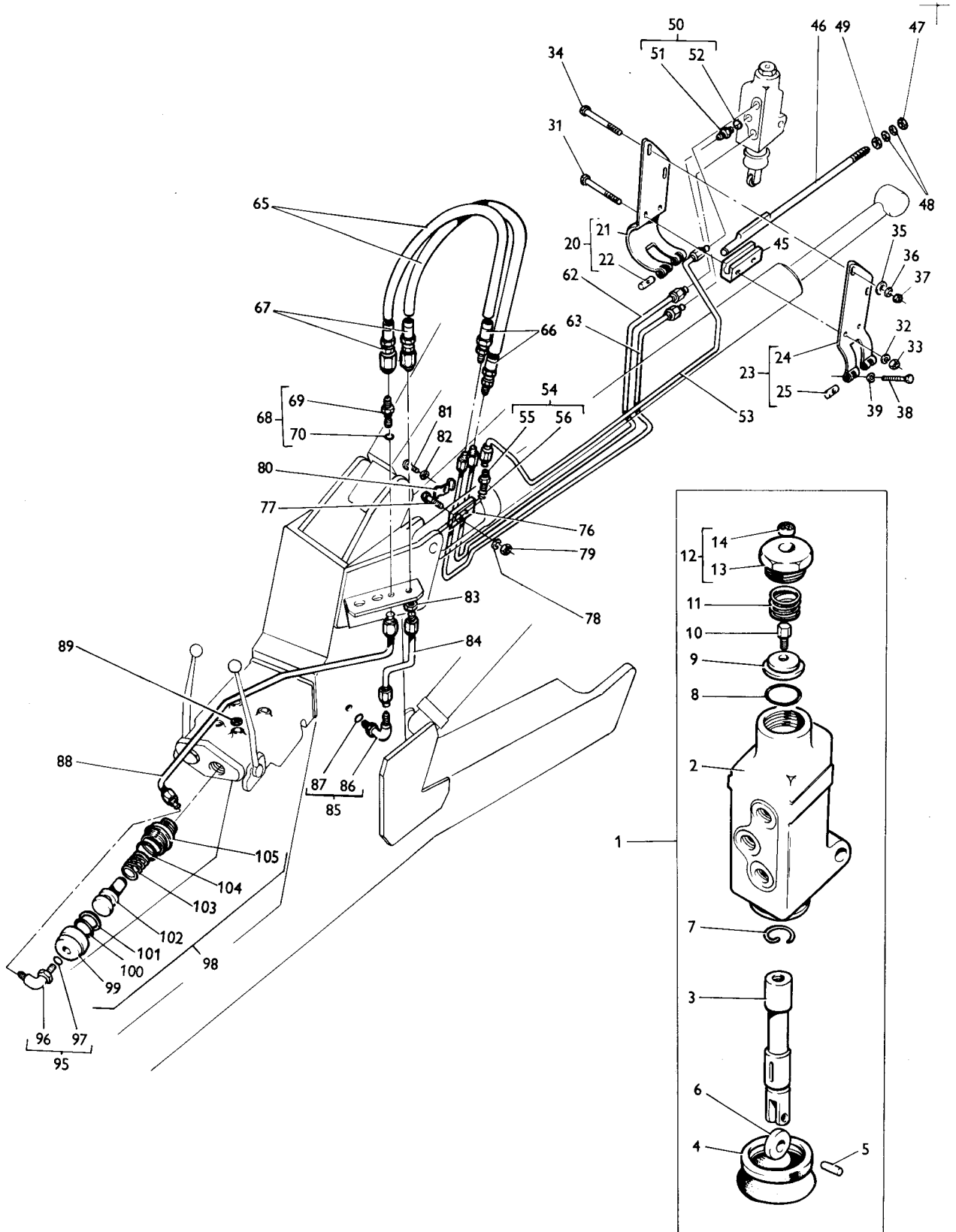


<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description.</u>	<u>No.</u> <u>Req.</u>
1	862 883 M91	Cylinder, Assembly ...	2
2	1884 148 M91	Barrel, Assembly ...	1
3	1884 151 M91	Plug, Barrel Drain Assembly ...	1
4		Plug, Order 1884 151 M91 ...	1
5	1884 152 M1	'O' Ring ...	1
6	1884 149 M1	Bush, Barrel ...	1
7	200 191 M1	Greaser, Barrel Bush ...	1
13	358 799 X1	Nut, Piston to Rod ...	1
14	1884 160 M1	Retainer, Packing, Piston, Front ...	1
15	1884 159 M1	Packing, Piston ...	1
16	1884 157 M1	Spacer, Piston ...	1
17	1025 726 M1	Washer, Back up ...	2
18	1000 546 M1	'O' Ring, Spacer to Piston Ring ...	1
19	1884 158 M1	Retainer, Packing, Piston, Rear ...	1
25	1884 161 M91	Bearing, Assembly, Piston Rod ...	1
26		Bearing, Order 1884 161 M91 ...	1
27	1752 168 M1	'O' Ring, Bearing to Barrel ...	1
28	1881 527 M1	Washer, Back up ...	1
29	1884 467 M1	Seal, Shaft, Inner ...	1
30	1884 440 M1	Seal, Shaft, Outer ...	1
31	1005 398 M1	Ring, Bearing, Lock ...	1
32	1884 164 M1	Nut, Bearing, Lock ...	1
38	1884 153 M91	Rod, Piston Assembly ...	1
39	1884 154 M1	Bush, Piston Rod ...	2
40	200 191 M1	Greaser, Piston Rod Bush ...	1
46	1810 056 M91	Kit, Repair ...	X
47	1884 152 M1	'O' Ring ...	1
48	1884 159 M1	Packing, Piston ...	1
49	1881 527 M1	Washer, Back up ...	1
50	1752 168 M1	'O' Ring ...	1
51	1025 726 M1	Washer, Back up ...	2
52	1000 546 M1	'O' Ring ...	1
53	1884 467 M1	Seal ...	1
54	1884 440 M1	Seal, Shaft ...	1

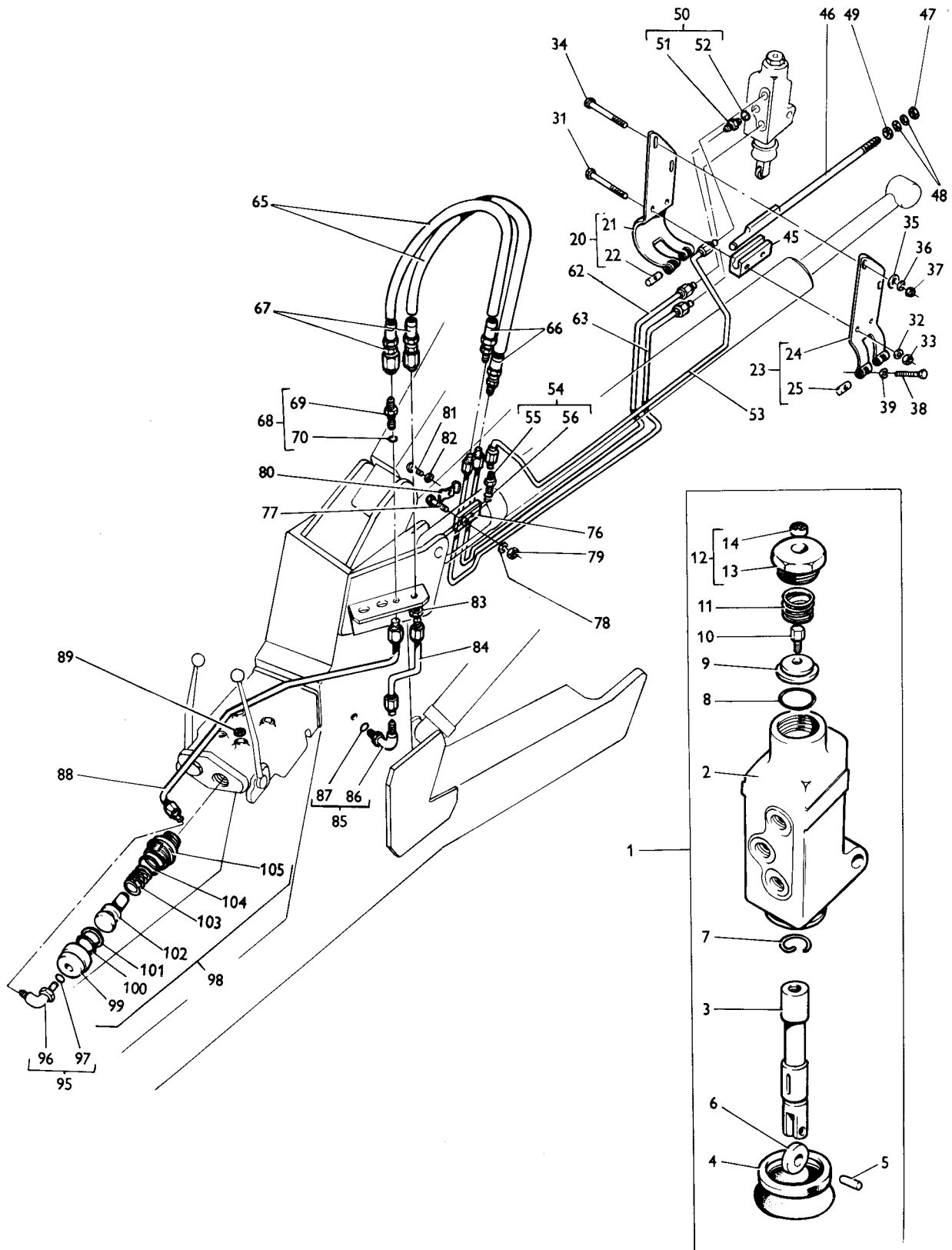
BUCKET RESET ARRANGEMENT

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u> <u>Req</u>
1	862 813 M91	Valve, Kick-Out, Assembly...	1
2		Body, Order 862 813 M91...	1
3		Spool, Order 862 813 M91	1
4	1884 551 M1	Shroud, Spool End ...	1
5	1884 553 M1	Pin, Roll ...	1
6	1884 552 M1	Roller, Spool End ...	1
7	1884 550 M1	Circlip, Spool Check ...	1
8	851 258 M1	'O' Ring, Spool to Body...	2
9	1884 547 M1	Washer, Spool Spring ...	1
10	1884 562 M1	Screw, Spool End ...	1
11	1884 548 M1	Spring, Spool ...	1
12	1884 549 M91	Plug, Spool Spring, Assembly	1
13		Plug, Order 1884 549 M91	1
14		Filter, Order 1884 549 M91	1
20	863 091 M91	Clamp, Valve to Ram, L.H. Assembly	1
21		Clamp, Order 863 091 M91	1
22		Nut, Order 863 091 M91 ...	2
23	863 090 M91	Clamp, Valve to Ram, L.H. Assembly	1
24		Clamp, Order 863 090 M91	1
25		Piece, Distance, Order 863 090 M91	2
31	354 489 X1	Bolt, Guide to clamp ...	2
32	353 441 X1	Washer, Lock ...	2
33	353 918 X1	Nut ...	2
34	354 489 X1	Bolt, Valve to Clamp ...	2
35	353 754 X1	Washer ...	2
36	353 441 X1	Washer, Lock ...	2
37	353 918 X1	Nut ...	2
38	353 513 X1	Bolt, Clamp ...	2
39	353 754 X1	Washer ...	2
45	863 081 M1	Guide, Indicator Rod ...	1
46	863 069 M91	Indicator, Bucket Ram ...	1
47	353 438 X1	Nut, Indicator to Ram ...	1
48	353 758 X1	Washer ...	2
49	353 438 X1	Nut, Indicator to Ram ...	1
50	358 741 X91	Connector, Pipes to Valve...	3
51		Connector, Order 358 741 X91	1
52	831 495 M1	'O' Ring ...	1
53	863 079 M91	Pipe, Valve to Bucket Ram, Assembly	1
54	358 741 X91	Connector, Pipe to Bucket Ram	1
55		Connector, Order 358 741 X91	1
56	831 495 M1	'O' Ring ...	1
62	863 084 M91	Pipe, Valve to Hydraulic Tank, Assembly ...	1
63	863 086 M91	Pipe, Reset, Valve to flexible hose, Assembly	1
64	895 906 M91	Pipe, Flexible, Not Serviced, Order Details	2
65		Hose, Not Serviced, Use 24" of 895 224 M1 (30') or 895 235 M1 (60')	1
66	895 488 M1	Connector, Male ...	1
67	895 487 M1	Connector, Female ...	1
68	358 845 X91	Union, Hose to Bulkhead	2
69		Union, Order 358 845 X91	1
70	831 495 M1	'O' Ring ...	1
76	863 094 M91	Base, Pipe Clamp ...	1
77	353 511 X1	Bolt ...	1
78	353 441 X1	Washer, Lock ...	1
79	353 918 X1	Nut ...	1
80	863 077 M1	Clamp, Pipe ...	1
81	357 458 X1	Screw, Clamp to Clamp Base	1

CPO 1889



CPO 1889



BUCKET RESET ARRANGEMENT
(Continued)

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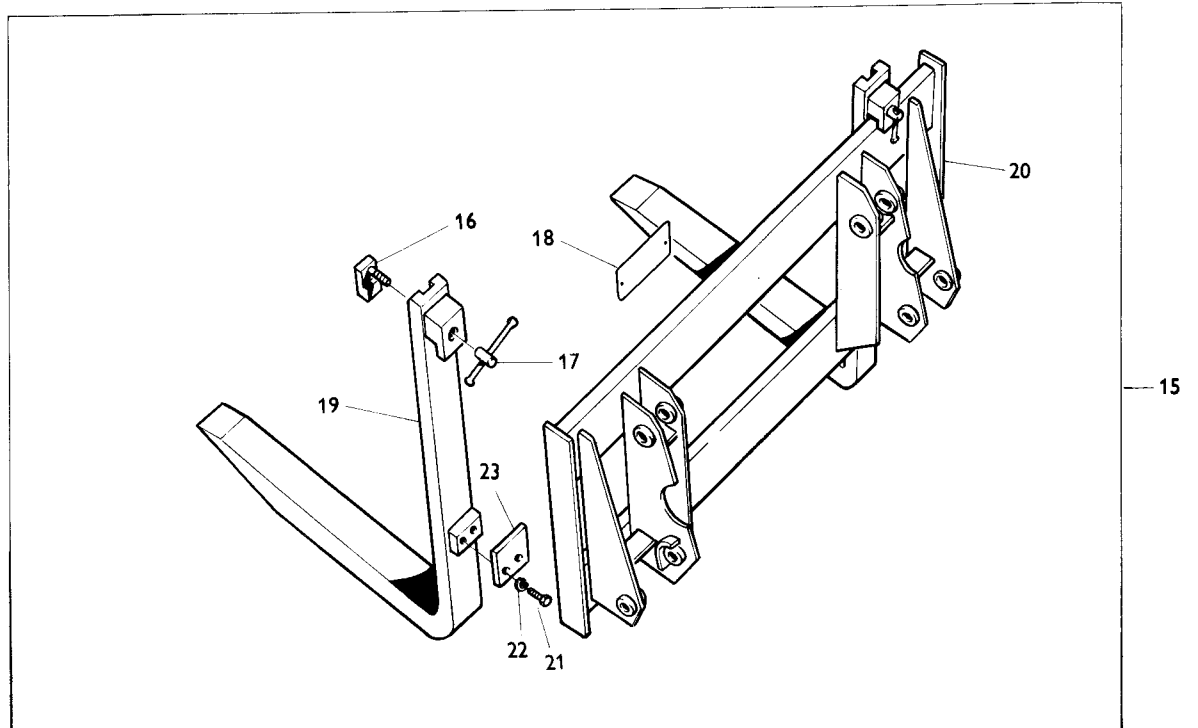
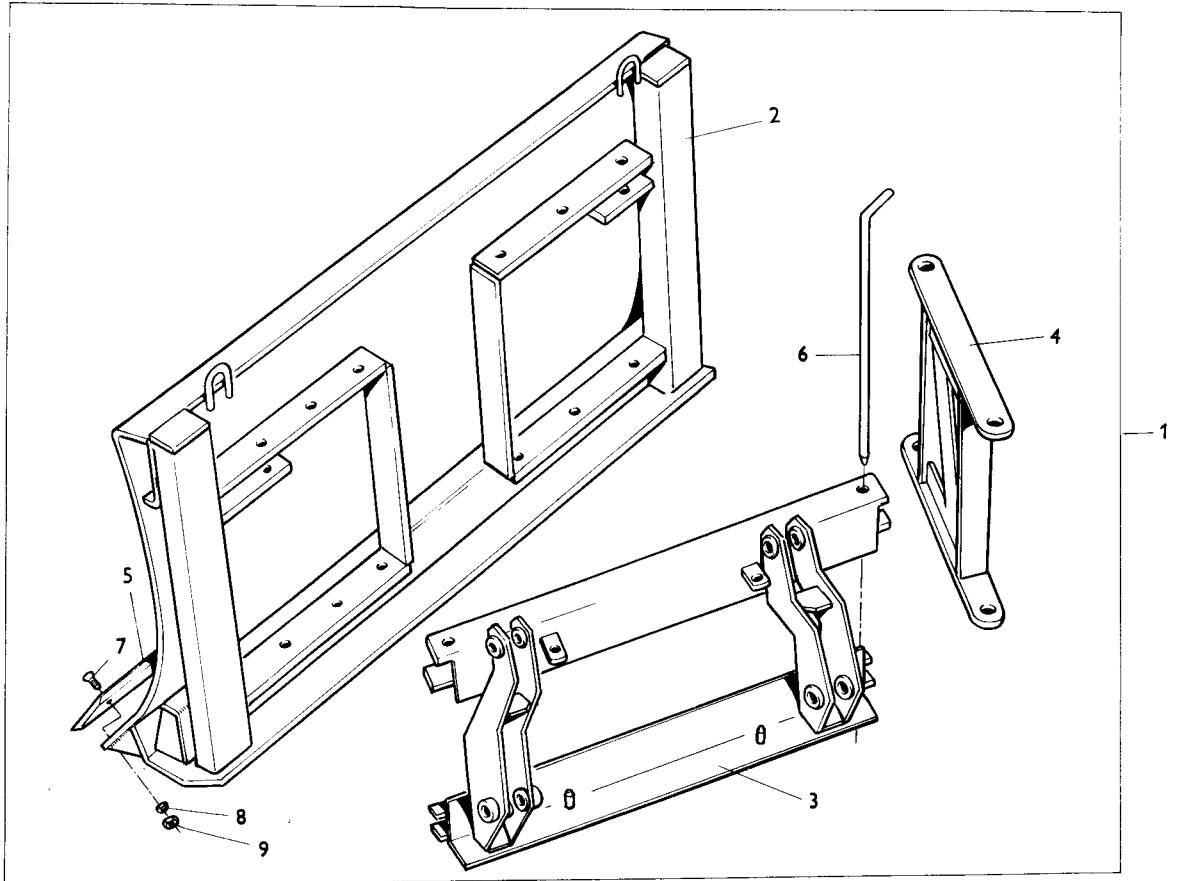
<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u> <u>Req.</u>
82	353 441 X1	Washer, Lock ...	1
83	353 428 X1	Nut ...	2
84	863 074 M91	Pipe, Bulkhead to Hydraulic tank, Assembly...	1
85	358 760 X91	Connection, Pipe to Hydraulic Tank, Assembly	1
86		Connection, Order 358 760 X91 ...	1
87	831 495 M1	'O' Ring ...	1
88	863 072 M91	Pipe, Bulkhead to kick-out Cylinder ...	1
89	1030 581 M1	Plate, Orifice ...	1
95	358 760 X91	Connection, kick-out Cylinder, 90° elbow, Assembly ...	1
96		Connection, Order 358 760 X91 ...	1
97	831 495 M1	'O' Ring ...	1
98	862 812 M91	Cylinder, kick-out, Assembly ...	1
99	1884 546 M1	Nut, Cylinder ...	1
100	196 030 M1	'O' Ring, Piston to Body ...	1
101	1884 544 M1	Washer, Back-Up ...	1
102	1884 543 M1	Piston, kick-out ...	1
103	1884 542 M1	Spring, kick-out ...	1
104	1884 545 M1	'O' Ring, Body to Nut ...	1
105	1884 541 M1	Body, Cylinder ...	1

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description.</u>	<u>No.</u> <u>Req.</u>
1		Angle, Dozer Assembly, (Order through Sales Dept.)	X
2	862 741 M91	Mouldboard, Assembly	1
3	862 761 M91	Frame, Back	1
4	862 764 M91	Link, Assembly	1
5	862 762 M1	Blade, Dozer	1
6	862 763 M1	Pin, Dozer	3
7	354 300 X1	Bolt Plough	12
8	353 433 X1	Washer	12
9	353 427 X1	Nut	12

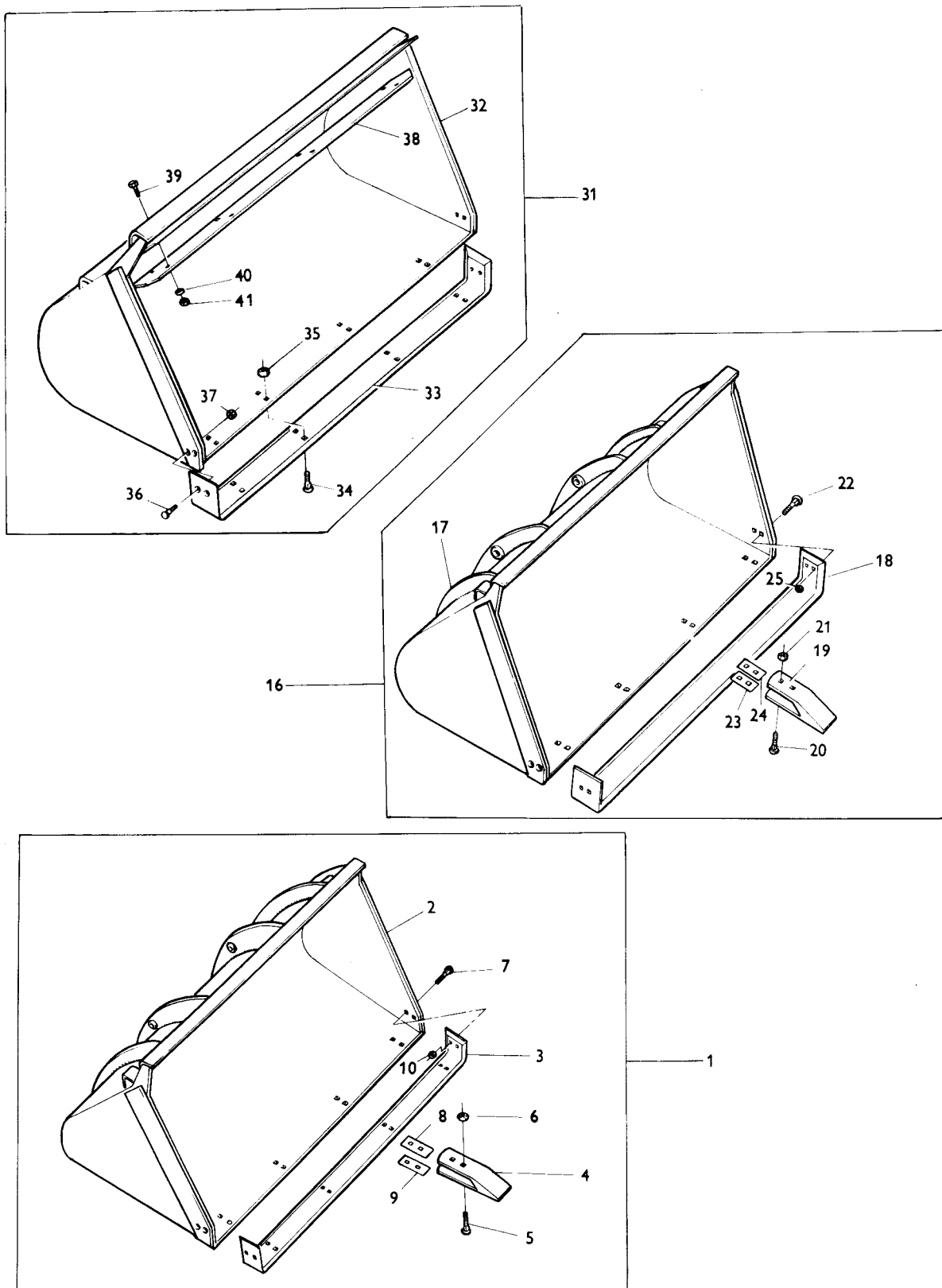
FORK LIFT

15		Fork Lift Assembly, (Order through Sales Dept.)	X
16	863 010 M91	Clamp, Assembly	2
17	863 013 M91	Clamp, Nut, Assembly	2
18	863 016 M1	Plate, Instruction	1
19	862 994 M91	Fork, Assembly	2
20	863 018 M91	Frame, Fork Lift, Assembly	1
21	354 276 X1	Bolt	4
22	353 439 X1	Washer	4
23	863 017 M1	Plate, Retaining	2

CPO 1890



CPO 1891



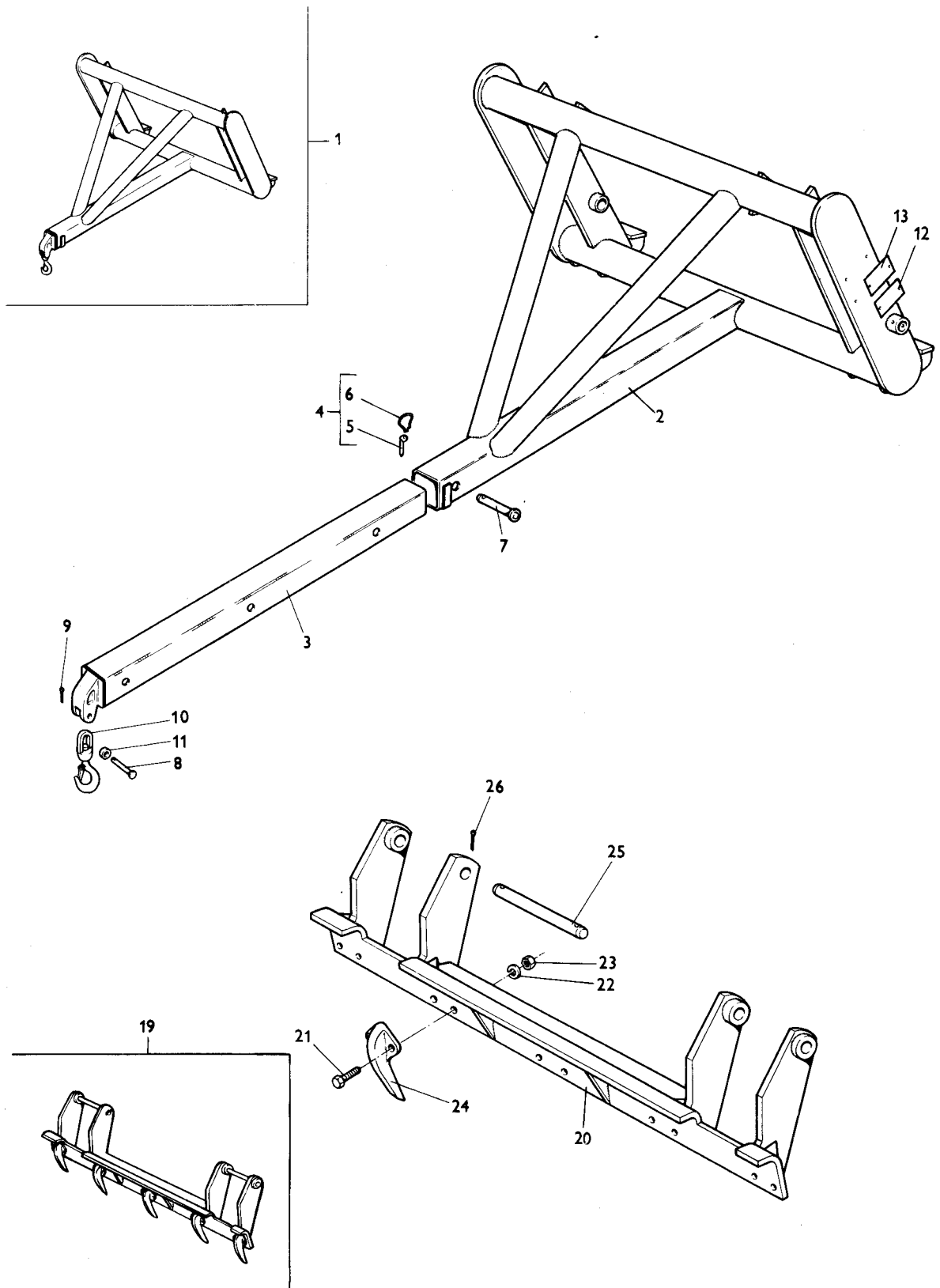
<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description.</u>	<u>No.</u> <u>Req</u>
1		Bucket, 5/8 cu yard Heavy Duty, (Order through Sales Dep.)	X
2		Bucket, (Order through Sales Dept.)	1
3	862 982 M1	Blade, Bucket	1
4	862 740 M1	Tooth, Bucket Blade	6
5	353 424 X1	Bolt, Tooth and Blade to Bucket	12
6	353 427 X1	Nut	12
7	354 302 X1	Bolt, Plough Blade to Bucket Sides	4
8	862 738 M1	Spacer, .032"	X
9	862 739 M1	Spacer, .064"	X
10	353 427 X1	Nut	4
16		Bucket, 3/4 cu yard General Purpose, (Order through Sales Dep.)	X
17		Bucket, (Order through Sales Dept.)	1
18	862 737 M1	Blade, Bucket	1
19	862 740 M1	Tooth, Bucket Blade	8
20	353 424 X1	Bolt, Plough Tooth and Blade to Bucket	16
21	353 427 X1	Nut, Hex.	16
22	354 302 X1	Bolt, Blade to Bucket Sides	4
23	862 738 M1	Spacer, .032"	X
24	862 739 M1	Spacer, .064"	X
25	353 427 X1	Nut	4
31		Bucket, 1.1/2 cu yard. Bulk Handling, (Order through Sales Dep.)	X
32		Bucket, (Order through Sales Dept.)	1
33	862 785 M1	Blade, Bucket.	1
34	354 300 X1	Bolt, Plough Blade to Bucket Bottom	16
35	353 427 X1	Nut.	16
36	354 302 X1	Bolt, Plough Blades to Bucket Sides	4
37	353 427 X1	Nut	4
38	862 992 M1	Guard, Spill	1
39	353 593 X1	Bolt, Spill Guard to Bucket	8
40	353 439 X1	Washer, lock	8
41	353 437 X1	Nut	8

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u> <u>Req.</u>
1		Crane Assembly (Order through Sales Dept.)	X
2		Frame, (Order through Sales Dept.)	1
3	862 911 M91	Tube, Adjusting Assembly	1
4	810 285 M91	Pin, Linch and Ring	1
5	195 346 M1	Pin	1
6	195 347 M1	Ring	1
7	862 910 M91	Pin, Assembly	1
8	195 351 M1	Pin, Clevis	1
9	354 074 X1	Pin	1
10	823 627 M91	Hook, Assembly	1
11	823 625 M2	Spacer	1
12	862 908 M1	Plate, Instruction	2
13	863 026 M1	Plate, Warning	2

SCARIFIER

19		Scarifier, Assembly (Order through Sales Dept.)	X
20		Frame (Order through Sales Dept.)	1
21	354 568 X1	Bolt	10
22	353 440 X1	Washer, Spring	10
23	353 435 X1	Nut	10
24	862 684 M1	Tooth	5
25	862 673 M1	Pin	2
26	375 096 X1	Pin	2

CPO 1892

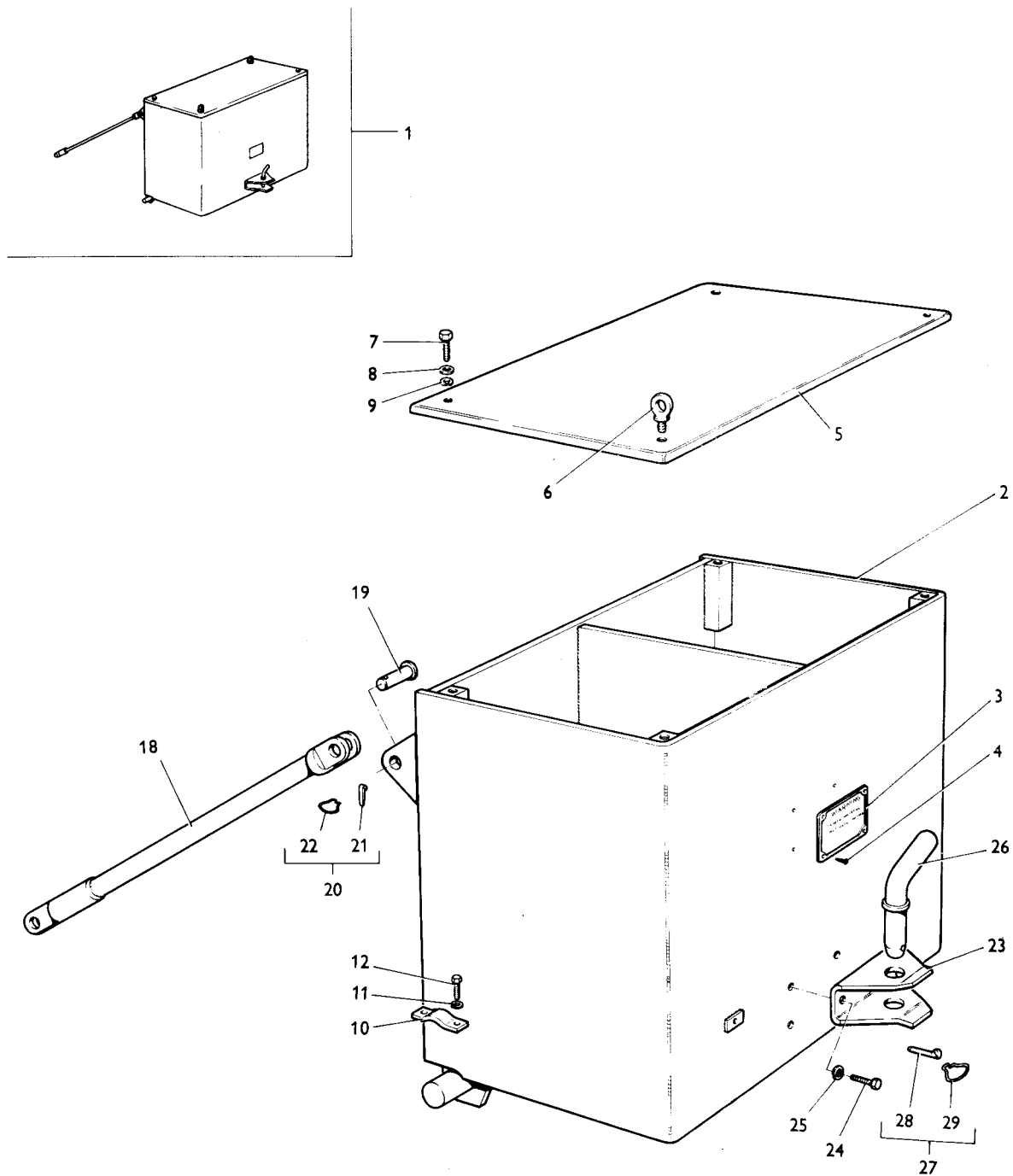


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250 Loader

819 547 M1 (Issue 1) 6/66

CPO 1893



<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description.</u>	<u>No.</u> <u>Req.</u>
1	862 625 M91	Weight, Counter, Assembly	1
2	862 639 M91	Box, Weight, Assembly	1
3	862 689 M1	Plate, Instruction	1
4	353 448 X1	Screw, Drive	4
5	862 650 M1	Cover, Weight Box	1
6	862 649 M1	Eyebolt	2
7	353 724 X1	Bolt, Cover	2
8	353 758 X1	Washer, Flat	2
9	353 439 X1	Washer, Lock	2
10	862 655 M1	Plate, Clamp	2
11	354 280 X1	Bolt	4
12	353 439 X1	Washer Lock	4
18	862 637 M91	Link, Assembly	2
19	861 469 M1	Pin	4
20	811 201 M91	Pin, Linch, and Ring Assembly	4
21	645 677 M1	Pin	1
22	195 347 M1	Ring	1
23	862 653 M1	Clevis, Towing	1
24	354 285 X1	Bolt,	2
25	353 433 X1	Washer, Lock	2
26	862 651 M91	Pin, Clevis	1
27	810 285 M91	Pin, Linch and Ring	1
28	195 346 M1	Pin	1
29	195 347 M1	Ring	1