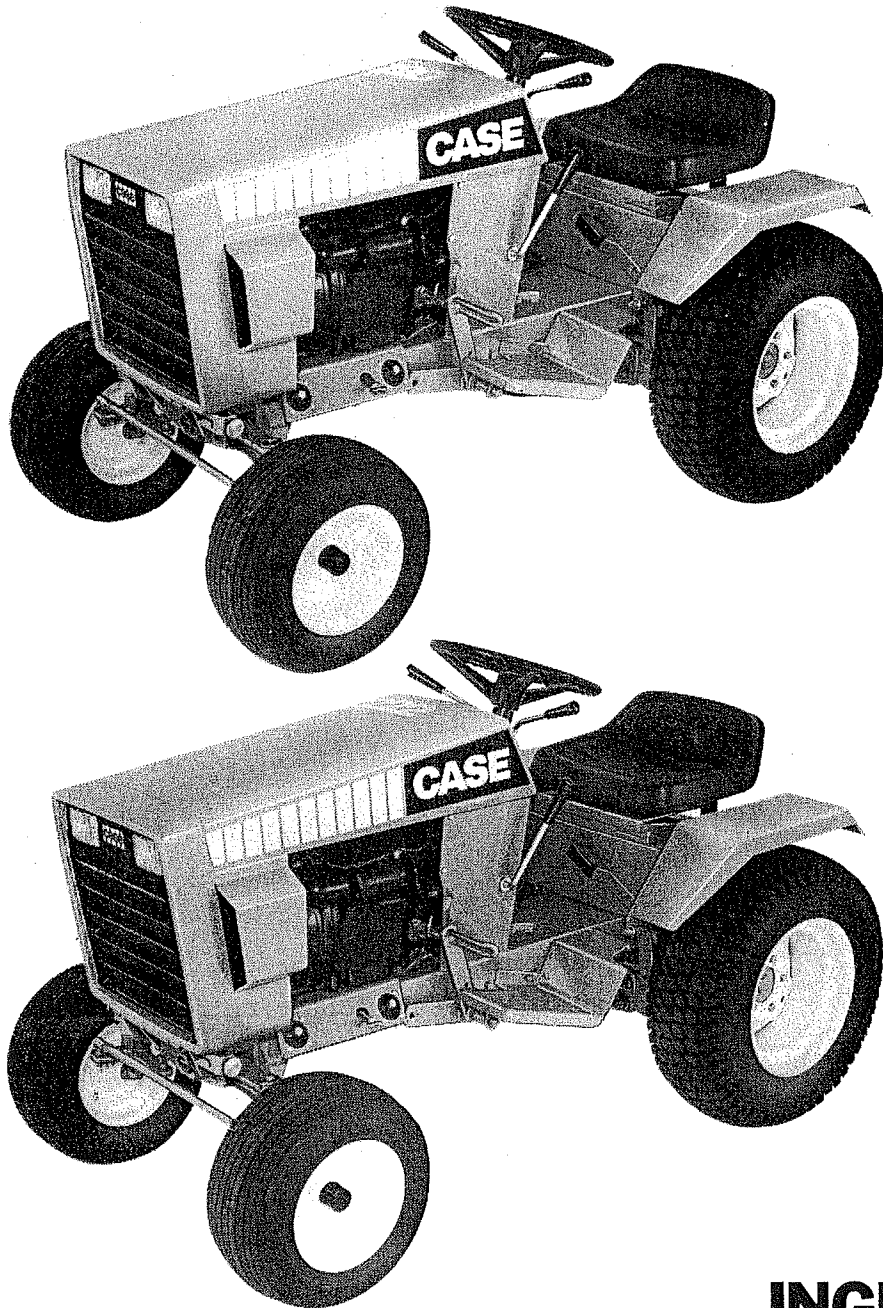


COMPACT TRACTORS
220-S/N 9734870 TO 14035005
222-S/N 9736998 TO 14036630
224-S/N 9738335 TO 14038300
444-S/N 9739739 TO 14039740
Parts Catalog B1375

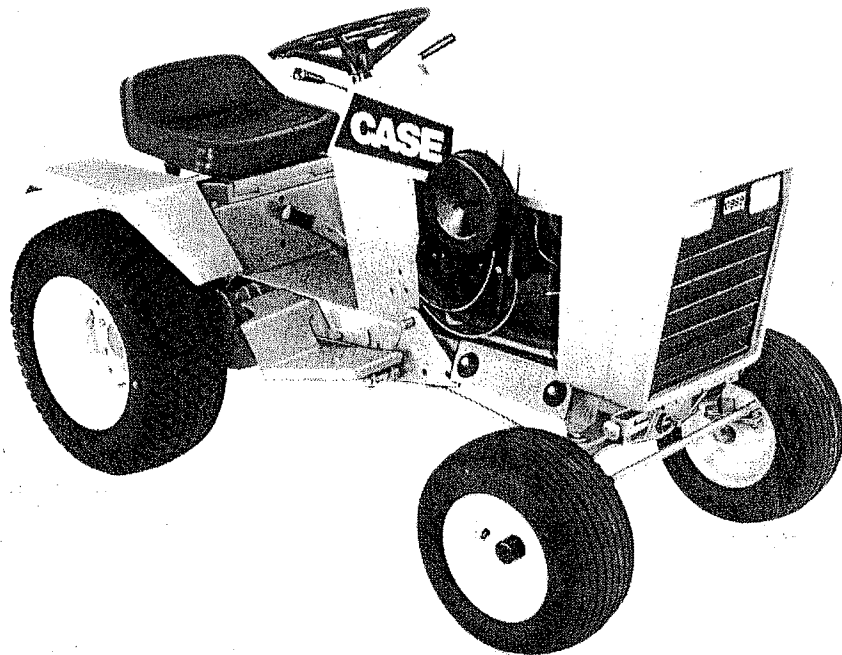
5-84-RP-1500-150

NOTE: This catalog replaces catalog A1375 and all revisions.

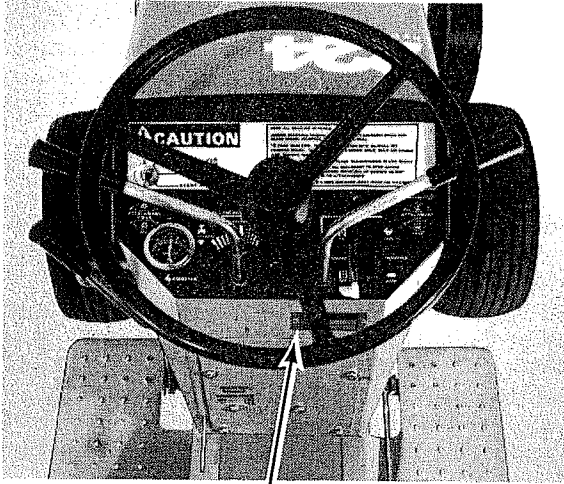


INGERSOLL
Ingersoll Equipment Co., Inc.

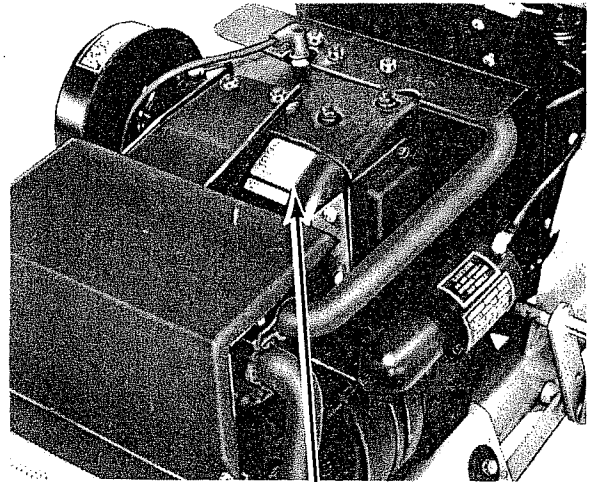
Technical Publications
119 South First Street
Winneconne, WI 54986-9576



CASE 220, 222, 224 AND 444 COMPACT TRACTORS



TRACTOR MODEL AND
SERIAL NUMBER



ENGINE MODEL, SERIAL AND
SPECIFICATION NUMBER

TRACTOR MODEL DESIGNATIONS	ENGINE MODEL DESIGNATIONS
220 TRACTOR	C26982 K - 241 - AS SPEC. PF46746D
222 TRACTOR	C26983 K - 301 - AS SPEC. PF47612D
224 TRACTOR	C26984 K - 321 - AS SPEC. PF60324D
444 TRACTOR	C26984 K - 321 - AS SPEC. PF60324D

SERIAL NUMBERS

When using this catalog, notice the reference to serial numbers of various components noted here and listed in the "description" copy. By referring to correct serial numbers, proper parts identification will be assured.

GENERAL INFORMATION

Indexes

This parts Catalog is arranged for easy identification of Genuine CASE Service Parts. An alphabetical index is provided at the front of this Catalog to locate the major groups or assemblies. A numerical index at the rear of the Catalog gives the part numbers and the pages on which they are described.

Illustrations

All parts are illustrated in "Exploded Views" which show the individual parts in their normal relationship to each other. Reference numbers are used in the illustrations. These numbers correspond to those in the "Reference Number" column and are followed by the part number, description and quantity required.

Orders

Orders should plainly specify correct part number, full description, quantity required, machine model and engine model, machine and engine serial numbers, method of shipment and shipping address.

Changes

When changes to the machine make it necessary, revised pages for this book will be issued. The revised pages will be issued with the same page number as those they replace and the "issue" number and date will be advanced.

It is imperative that revised Parts Book pages be inserted into their respective Parts Books as soon as received. Failure to do so will lead to confusion and defeat the purpose of the book.

Indented Description

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 descriptive list. In this case the quantity shown is the number required for the preceding assembly or sub-assembly.

REF.	PART NO.	DESCRIPTION	REQ'D
	A 55159	CYLINDER ASSY - rear steering	1
28	A 56208	SOCKET ASSY - rear cylinder	1
29	A 55956	PLUG - adjusting, socket assy	1
30	A 55957	SEAT - socket ball	2
31	A 56210	SPRING - socket	1
32	A 56209	SEAT - socket spring.	1
33	G 45175	CLAMP ASSY - socket assy	1
	16- 836	BOLT - 1/2" x 2-1/4" N.F. hex.	1
34	132- 104	PIN - cotter, 3/16" x 3".	1
35	A 55889	STUD - ball, socket & cylinder	2
36	13- 410	BOLT - 1/4" x 5/8" N.C., hex.	4
37	92- 4	LOCKWASHER - 1/4" SAE	4

Terms "Right Hand" and "Left Hand"

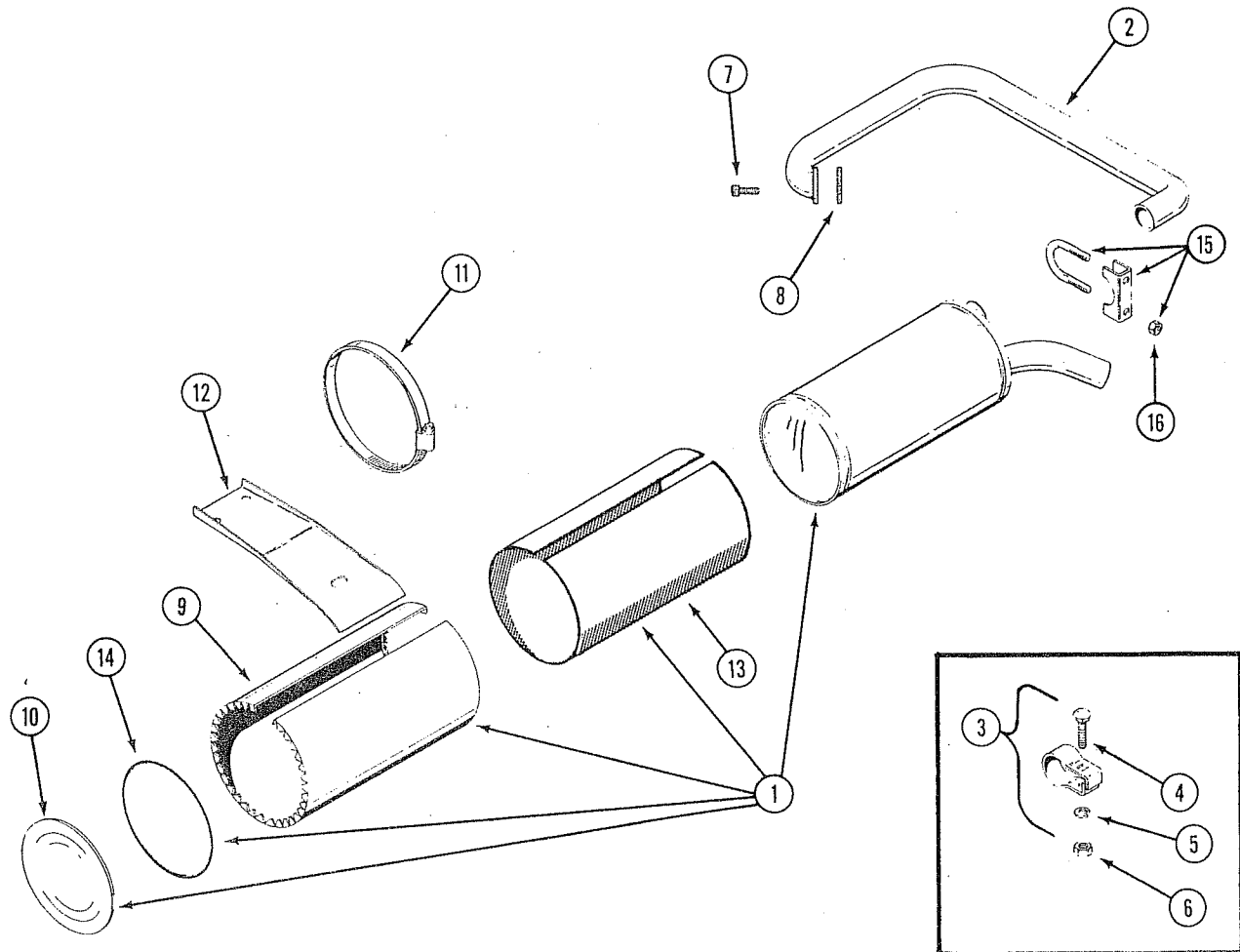
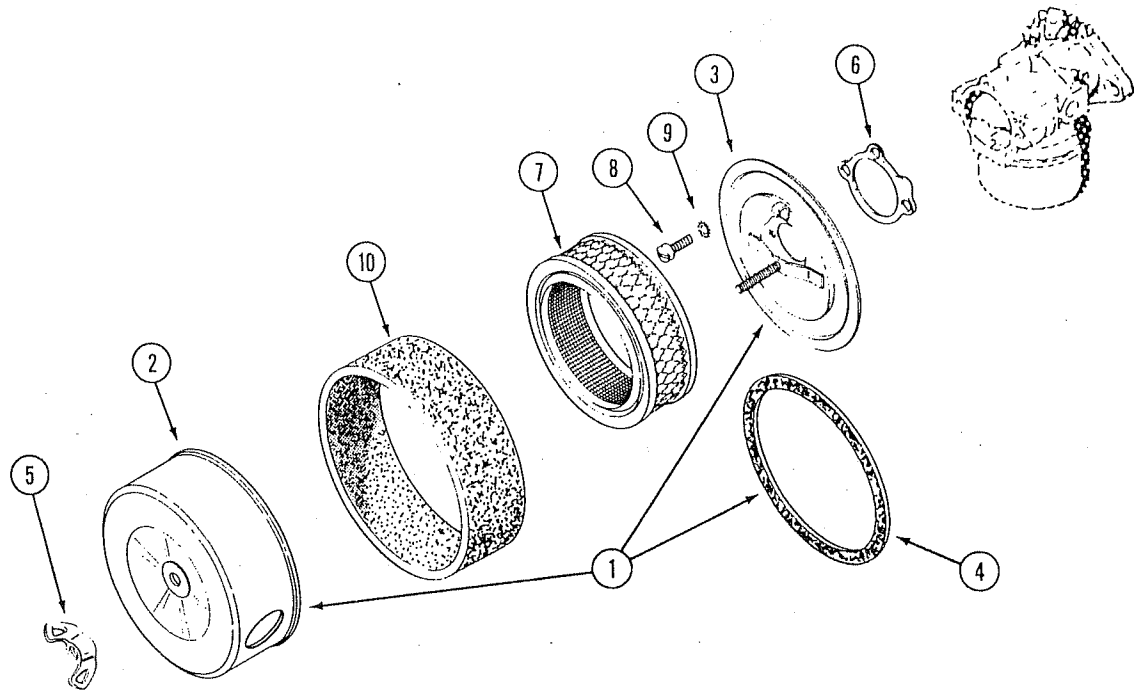
"Right Hand" and "Left Hand" sides of this machine are determined by standing at the rear of the unit and facing in the direction of forward travel.

ENGINE SECTION

	220	224		220	224
	222	444		222	444
	Page			Page	
Air Cleaner	5	5	Flywheel	17-19	21
Battery	65	65	Fuel Pump	25	25
Breaker Contacts	71	71	Fuel Strainer	25	25
Breather, Crankcase	7	9	Fuel System	25	25
Camshaft	7	9	Gasket Kits	23	23
Carburetor	25-27	25-27	Governor	29	29
Connecting Rod	11-13	15	Muffler	5	5
Crankshaft	11-13	15	Shields	57	57
Cylinder Block	17-19	21	Oil Pan	17-19	21
Cylinder Head	17-19	21	Piston	11-13	15
Electrical System	65-71	65-71	PTO Clutch	31-33	31-33
Engine Block & Attaching Parts	17-19	21	Spark Plug	65	65
Exchanger, Heat	53	53	Starter	63	63
Exhaust System	5	5	Tank, Fuel	25	25
Fan	33	33	Throttle Linkage	29	29
Filter, Breather	7	9	Valves	7	9

BASIC TRACTOR SECTION

Axle, Front	41	L7 Holding Valve	95
Axle, Rear	49-51	L9 Holding Valve	95
Baffles & Shrouds	25	L11 Counterweight Kit	95
Brakes	45	L19 and M19 Flow Control Valve Kit	93
Control-Speed	61	L29 PTO	97
Decals	73-75	M9 Holding Valve	95
Electrical System	65-71	Models K8 & K10 Wheel Weights	77
Fenders	39	Models H26 & J26 Three Point Hitch	81-83
Frame	35-37	Model F27 Three Point Hitch Adapter	83
Grille	35-37	Model J22, J24, K22 and K24 Sleeve Hitch	85
Hitch	47	Model H13 Weight Box	87
Hood	35-37	Model H18 Counterweight Brackets	87
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Coupling, Pump Drive	53-57B	Mounts, Engine	29
Hoses, Lines & Fittings	53	Mounts, Heat Exchanger	55
Motor, Hydraulic Drive	53-61	PTO Clutch	31-33
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Valve, Control	53-59D	Steering Wheel & Gear	43
Valve, Control Linkage	61	Tail Lamp	71
Implement Lift Lever	47	Tool Box	39
Instruments	65	Transmission	49-51
J17, K17 and L17 Hydraulic PTO	89-91	Wheels, Front & Rear	45

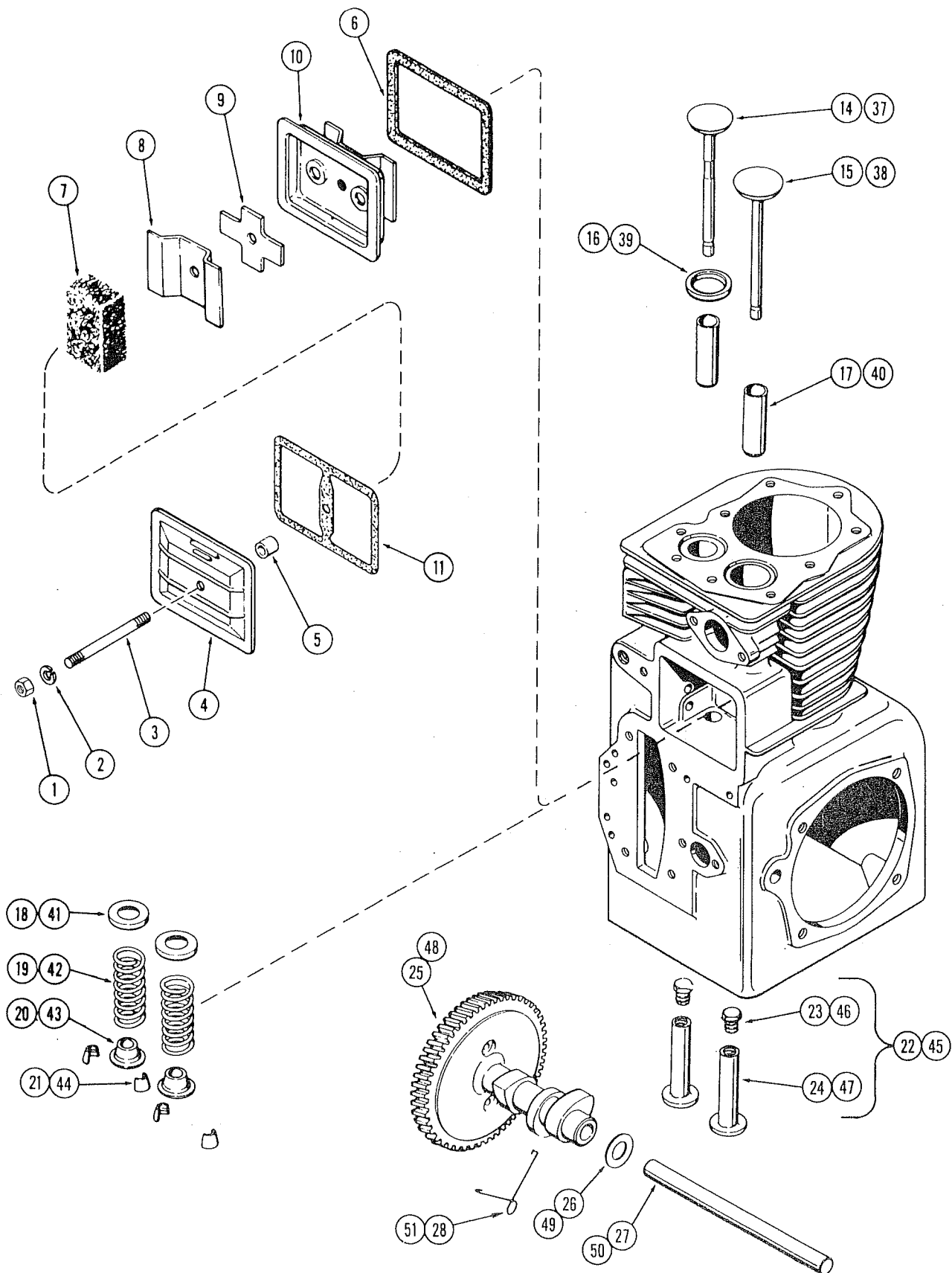


AIR CLEANER

REF.	PART NO.	DESCRIPTION	REQ'D
1	KO 237895	AIR CLEANER ASSEMBLY	1
2	NSS	COVER - air cleaner (order KO237895)	1
3	NSS	BASE - air cleaner (order KO237895)	1
4	KO 237423	GASKET - cover, air cleaner	1
5	C 26703	NUT - wing 1/4" N.C.	1
6	KO 275341	GASKET - air horn	1
7	A 70090	ELEMENT - air cleaner	1
8	177- 94	SCREW - fillister head 10-32 x 5/16"	3
9	193- 6	LOCKWASHER - ext. tooth	3
10	KO 237421	PRE-CLEANER.	1

EXHAUST SYSTEM

	C 26063	MUFFLER ASSEMBLY - exhaust (includes items 9, 10, 13 and 14 banded together)	1
2	C 22747	PIPE - engine exhaust	1
3	NSS	CLAMP ASSEMBLY - muffler (use H315176)	1
4	111- 256	BOLT - 5/16" x 1-1/4" round head NC (package of 100)	1
5	192- 20	LOCKWASHER - 5/16"	1
6	129- 102	NUT - 5/16" N.C. hex	1
7	61- 512	BOLT - 5/16" x 5/8" socket head	2
8	C 10372	GASKET - exhaust	1
9	C 26062	WRAPPER - muffler	1
10	C 22889	COVER - muffler end	1
11	214- 272	CLAMP - muffler and wrapper mounting	3
12	C 22819	BRACKET - muffler mounting	1
13	C 26058	INSULATION - muffler	1
14	C 22860	INSULATION - muffler end	1
15	H 315176	CLAMP - muffler	1
16	129- 102	NUT - 5/16" - 18 hex	2
17	192- 404	LOCK WASHER	2



220 AND 222 CRANKCASE BREATHER

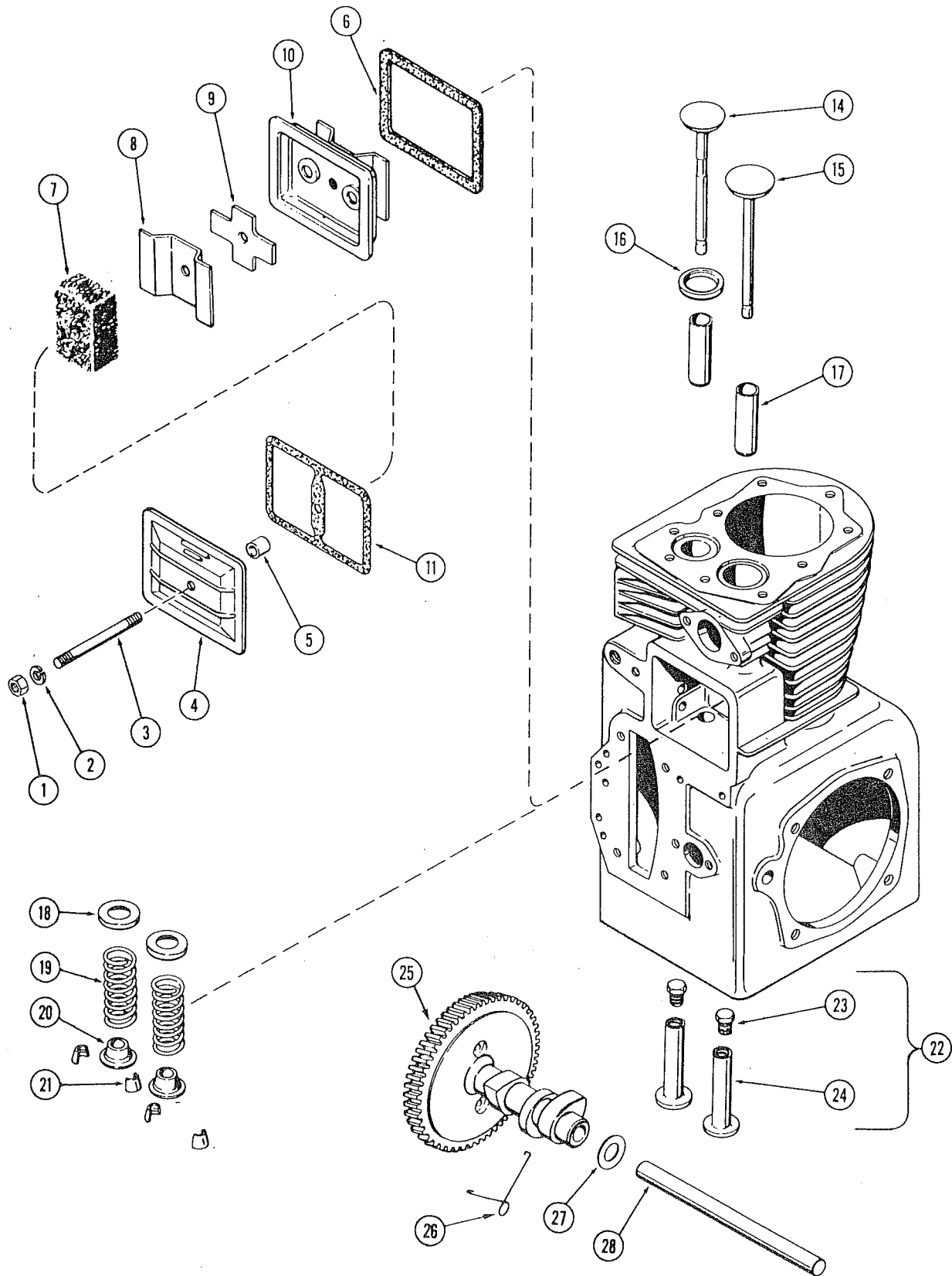
REF.	PART NO.	DESCRIPTION	REQ'D
1	129- 409	NUT - 1/4" NC hex	1
2	192- 19	LOCKWASHER - 1/4"	1
3	KO 275220	STUD - valve cover	1
4	KO 275143	COVER - valve	1
5	KO 231032	SEAL - breather	1
6	KO 235048	GASKET - breather plate	1
7	KO 235118	FILTER - breather	1
8	KO 235117	BAFFLE - breather	1
9	KO 235047	REED - breather	1
10	KO 235631	PLATE - breather	1
11	KO 275144	GASKET - valve cover	1

220 CAMSHAFT AND VALVES

14	KO 235826	VALVE - exhaust	1
15	KO 235008	VALVE - intake	1
16	KO 230170	INSERT - exhaust valve seat	1
17	KO 235007-S	GUIDE - valve	2
18	KO 235011	SEAT - valve spring	2
19	KO 235010	SPRING - valve	2
20	KO 230011	RETAINER - valve spring	2
21	C 24884	KIT - valve retainer (includes both halves)	2
22	KOD 235327	LIFTER ASSEMBLY	2
23	NSS	SCREW - tappet adjusting	1
24	NSS	LIFTER - valve	1
25	C 25043	CAMSHAFT ASSEMBLY	1
26	KO 275066	SPACER - camshaft, .005"	UAR
26	KO 275067	SPACER - camshaft, .010"	UAR
27	KO 235053	PIN - camshaft	1
28	V 34346	SPRING - actuating	1

222 CAMSHAFT AND VALVES

37	KO 235826	VALVE - exhaust	1
38	KO 235008	VALVE - intake	1
39	KO 230170	INSERT - exhaust valve seat	1
40	KO 235007-S	GUIDE - valve	2
41	KO 235011	SEAT - valve spring	2
42	KO 235010	SPRING - valve	2
43	KO 230011	RETAINER - valve spring	2
44	C 24884	KIT - valve retainer (includes both halves)	2
45	KOD 235327	LIFTER ASSEMBLY	2
46	NSS	SCREW - tappet adjusting	1
47	NSS	LIFTER - valve	1
48	C 25043	CAMSHAFT ASSEMBLY	1
49	KO 275066	SPACER - camshaft, .005"	UAR
49	KO 275067	SPACER - camshaft, .010"	UAR
50	KO 235053	PIN - camshaft	1
51	V 34346	SPRING - actuating	1

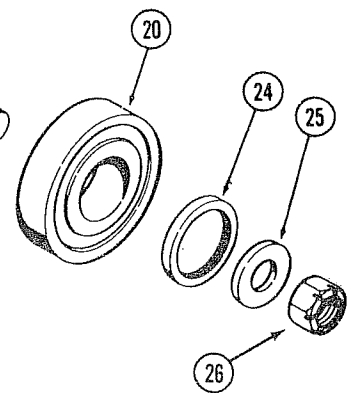
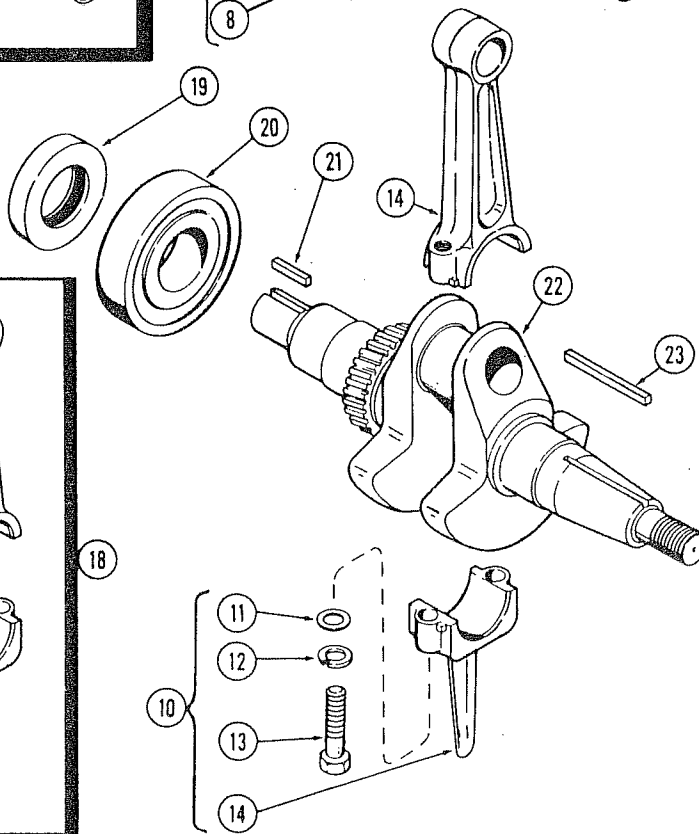
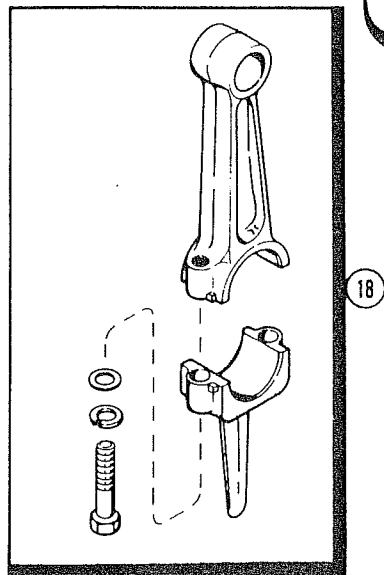
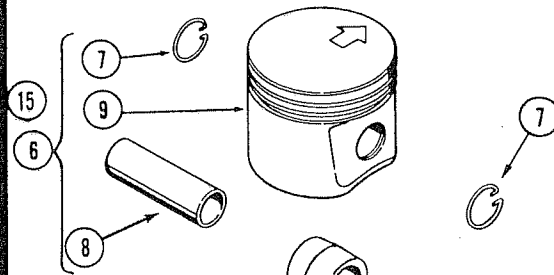
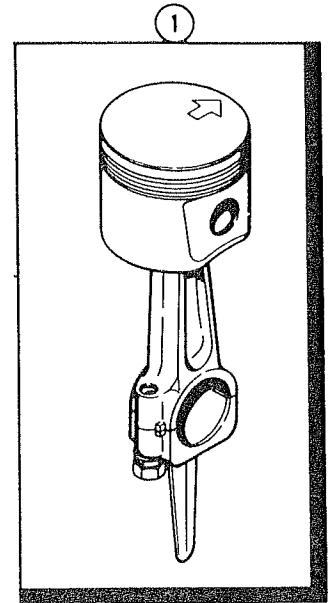
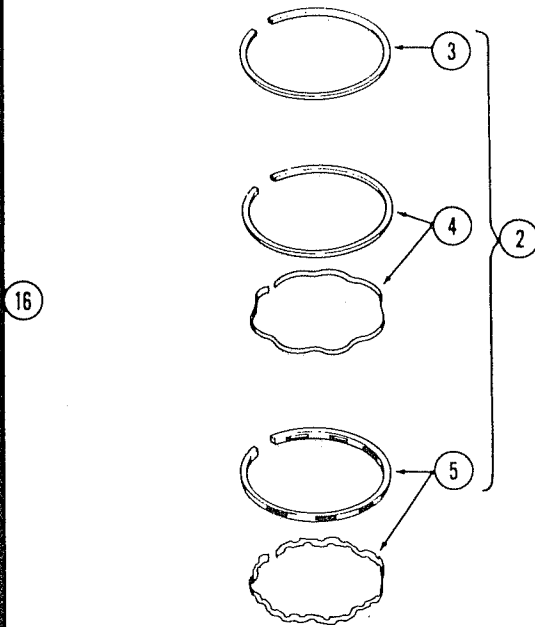
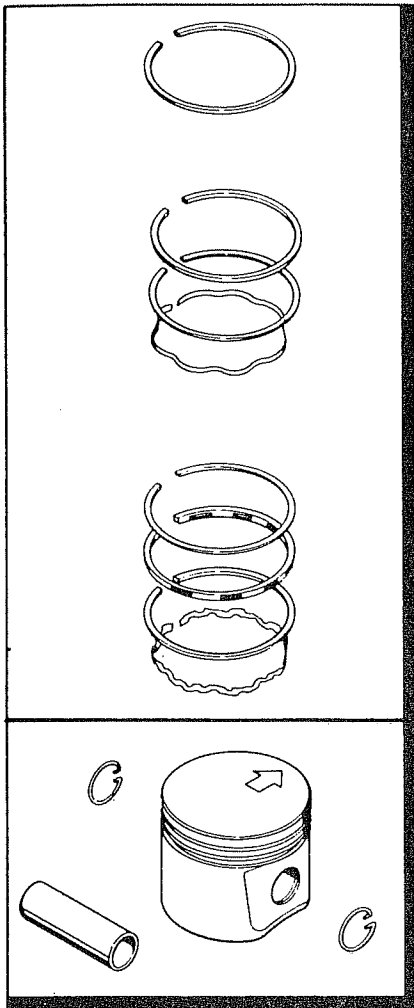


224 AND 444 CRANKCASE BREATHER

REF.	PART NO.	DESCRIPTION	REQ'D
1	129- 409	NUT - 1/4" NC hex	1
2	192- 19	LOCKWASHER - 1/4"	1
3	KO 275220	STUD - valve cover	1
4	KO 275143	COVER - valve	1
5	KO 231032	SEAL - breather	1
6	KO 235048	GASKET - breather plate	1
7	KO 235118	FILTER - breather	1
8	KO 235117	BAFFLE - breather	1
9	KO 235047	REED - breather	1
10	KO 235631	PLATE - breather	1
11	KO 275144	GASKET - valve cover	1

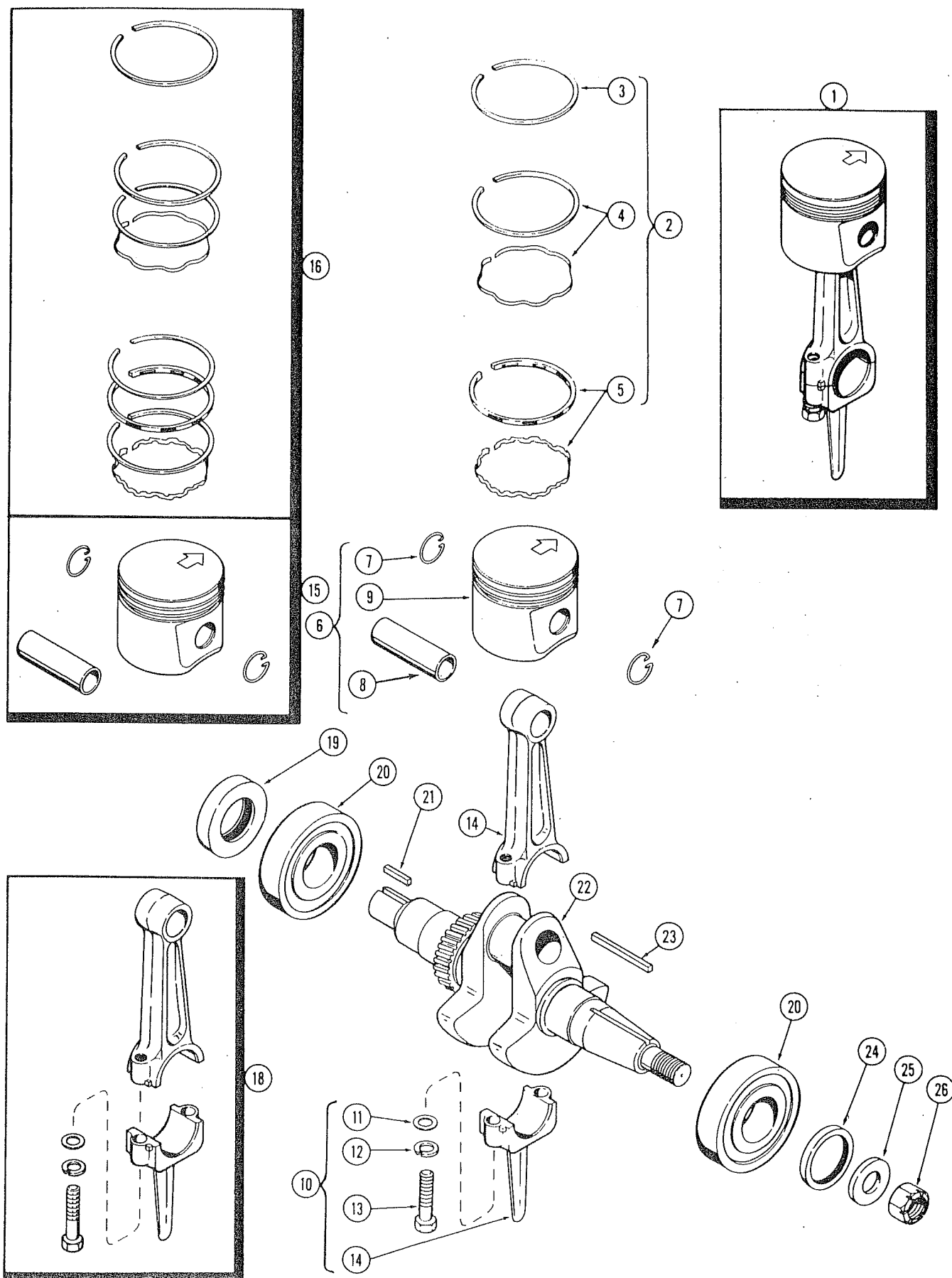
224 AND 444 CAMSHAFT AND VALVES

14	KO 237672	VALVE - exhaust	1
15	KO 235582	VALVE - intake	1
16	KO 230170	INSERT - exhaust valve seat	1
17	KO 235007-S	GUIDE - valve	2
18	KO 235011	SEAT - valve spring	2
19	KO 235168	SPRING - valve	2
20	KO 230020	ROTATOR - valve (Furnished in pairs only)	2
21	C 24884	KIT - valve retainer (includes both halves)	2
22	KOD 235327	LIFTER ASSEMBLY	2
23	NSS	SCREW - tappet adjusting	1
24	NSS	LIFTER - valve	1
25	C 25043	CAMSHAFT ASSEMBLY	1
26	V 34346	SPRING - actuating	1
27	KO 275066	SPACER - camshaft, .005"	UAR
27	KO 275067	SPACER - camshaft, .010"	UAR
28	KO 235053	PIN - camshaft	1



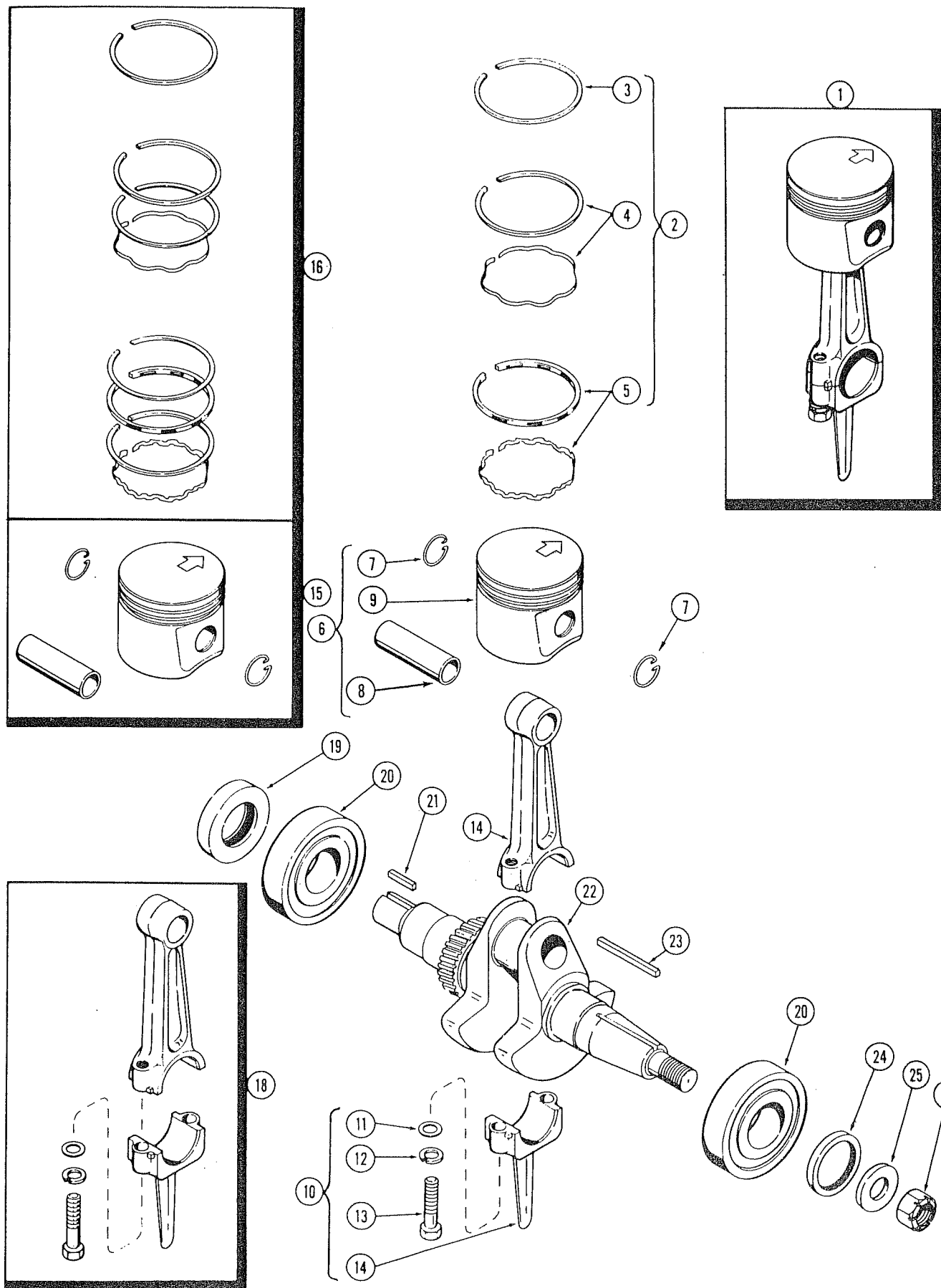
220 CRANKSHAFT, PISTON — CONNECTING ROD

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PISTON AND ROD ASSEMBLY (Std. size)	1
2	KO 235287	RING SET - piston (For oversize, see item 16)	1
3	NSS	RING - top compression	1
4	NSS	RING - 2nd compression (Includes expander)	1
5	NSS	RING - oil (Includes expander)	1
6	C 26509	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235004	RETAINER - piston pin	2
8	NSS	PIN - piston	1
9	NSS	PISTON	1
10	KOA 235139	CONNECTING ROD ASSEMBLY (For undersize, see item 18)	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER	2
13	NSS	SCREW - cap connecting rod	2
14	NSS	ROD - connecting	1
15	C 26511	PISTON ASSEMBLY - .010" oversize	1
15	C 26512	PISTON ASSEMBLY - .020" oversize	1
15	C 26513	PISTON ASSEMBLY - .030" oversize	1
15	C 26510	PISTON ASSEMBLY - .003" oversize (order KO235287 std. ring set)	1
16	KO 235288	RING SET - piston .010" oversize	1
16	KO 235289	RING SET - piston .020" oversize	1
16	KO 235290	RING SET - piston .030" oversize	1
18	C 18101	CONNECTING ROD ASSEMBLY - .010" undersize	1
19	R 16287	OIL SEAL - crankshaft rear	1
20	40035	BEARING - crankshaft ball	2
21	H 26492	KEY - 1/4" Sq. x 3/4" (Pump Coupling)	1
22	KOB 236364	CRANKSHAFT	1
23	H 233346	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel)	1
24	C 18097	OIL SEAL - crankshaft front	1
25	C 26421	WASHER - 5/8"	1
26	131- 580	NUT - special Marsden 5/8" NF.	1



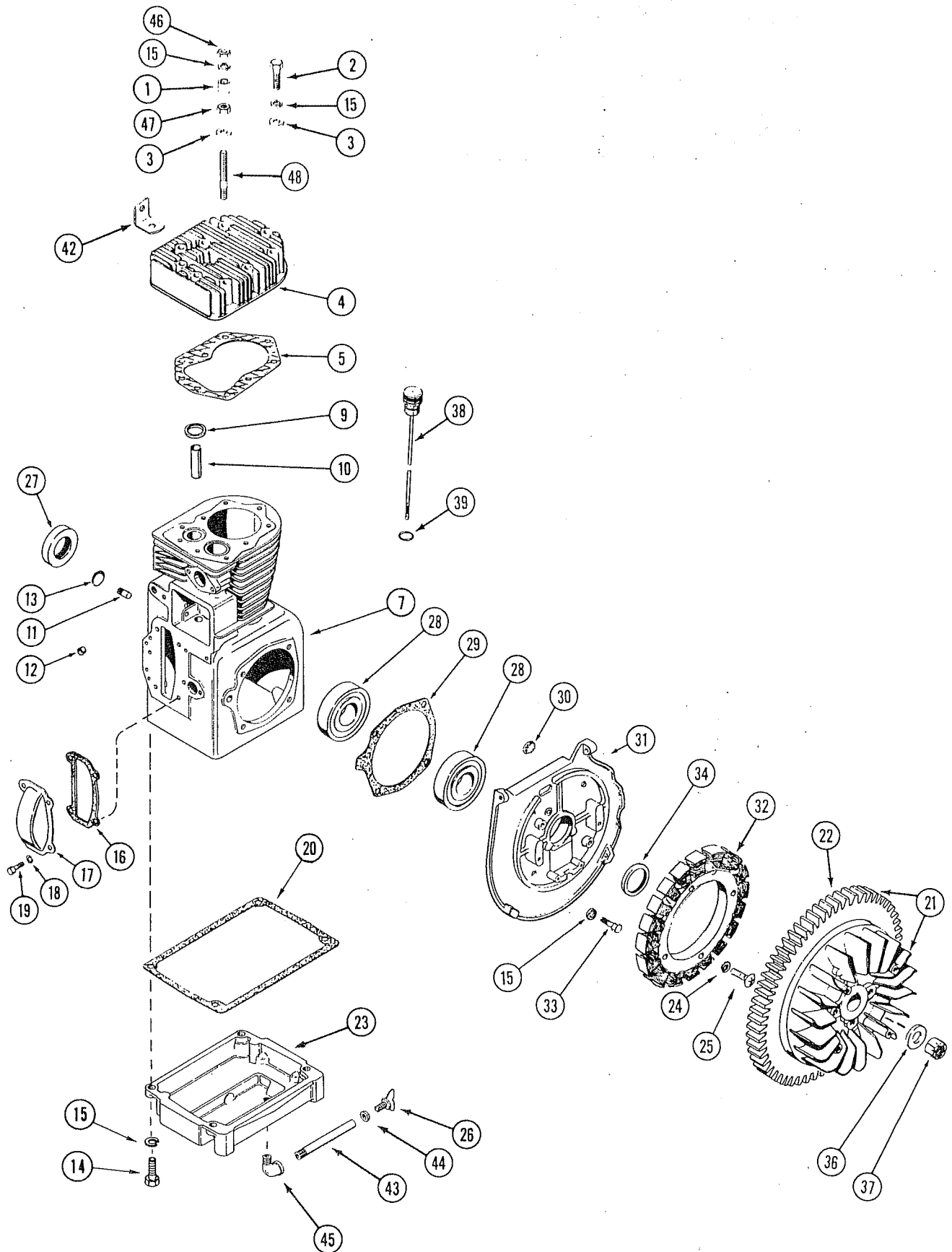
222 CRANKSHAFT, PISTON — CONNECTING ROD

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PISTON AND ROD ASSEMBLY (Std. size)	1
2	KO 235889	RING SET - piston (For oversize, see item 16)	1
3	NSS	RING - top compression	1
4	NSS	RING - 2nd compression (Includes expander)	1
5	NSS	RING - oil (Includes expander)	1
6	C 26514	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235004	RETAINER - piston pin	2
8	NSS	PIN - piston	1
9	NSS	PISTON	1
10	KOA 237344	CONNECTING ROD ASSEMBLY (For undersize, see item 18).	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER	2
13	NSS	SCREW - cap, connecting rod	2
14	NSS	ROD - connecting.	1
15	C 26516	PISTON ASSEMBLY - .010" oversize.	1
15	C 26517	PISTON ASSEMBLY - .020" oversize.	1
15	C 26361	PISTON ASSEMBLY - .030" oversize.	1
15	C 26515	PISTON ASSEMBLY - .003" oversize (order KO235889 std. ring set)	1
16	KO 235890	RING SET - piston .010" oversize	1
16	KO 235891	RING SET - piston .020" oversize	1
16	KO 235892	RING SET - piston .030" oversize	1
18	C 23135	CONNECTING ROD ASSEMBLY - .010" undersize	1
19	R 16287	OIL SEAL - crankshaft rear	1
20	40035	BEARING - crankshaft ball	2
21	H 26492	KEY - 1/4" Sq. x 3/4" (Pump Coupling).	1
22	KOB 235949	CRANKSHAFT	1
23	H 233346	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel).	1
24	C 18097	OIL SEAL - crankshaft front	1
25	C 26421	WASHER - 5/8".	1
26	131- 580	NUT - special Marsden 5/8" NF	1



224 AND 444 CRANKSHAFT, PISTON – CONNECTING ROD

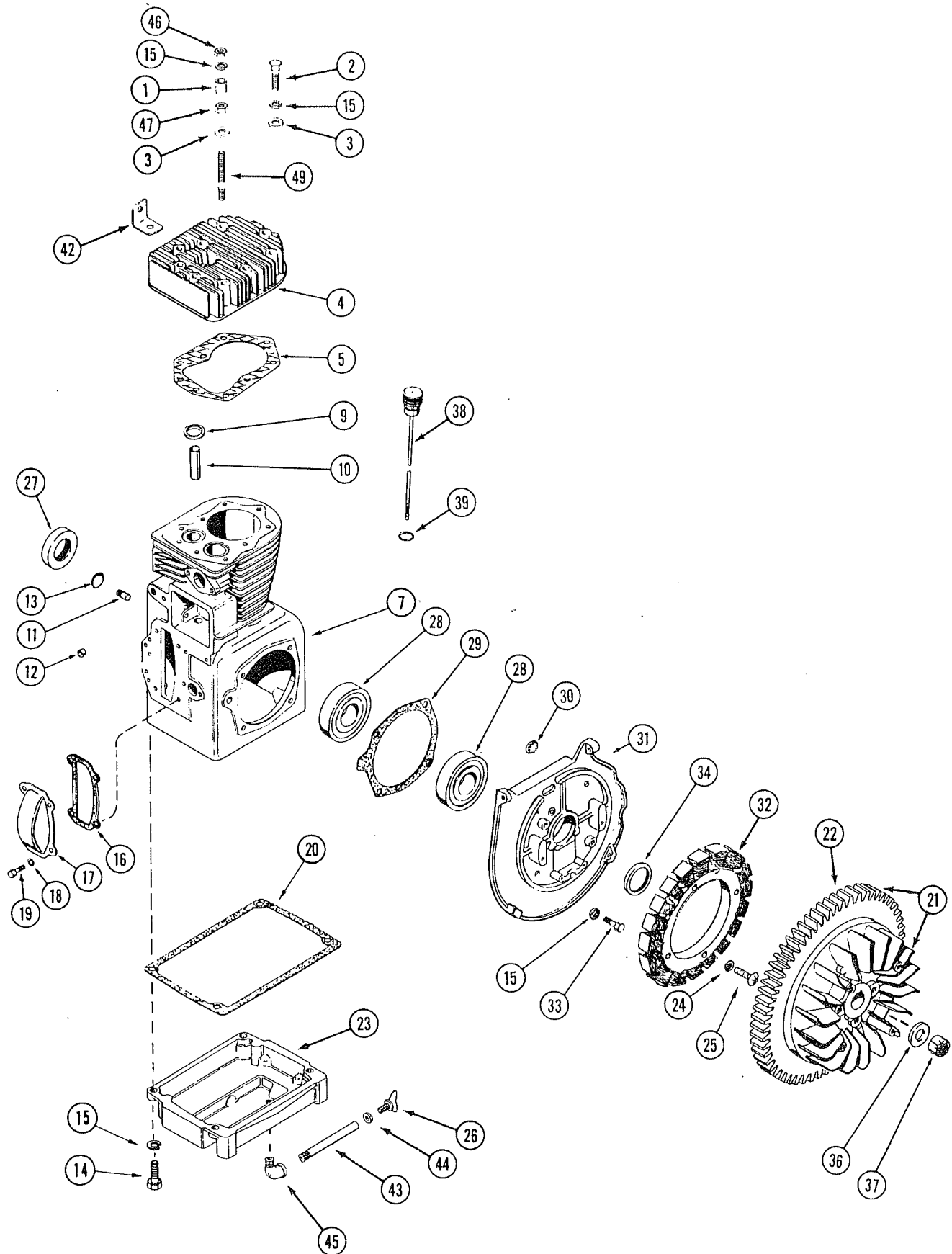
REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PISTON AND ROD ASSEMBLY (Std. size)	1
2	KO 236763	RING SET - piston (For oversize, see item 16)	1
3	NSS	RING - top compression	1
4	NSS	RING - 2nd compression (Includes expander)	1
5	NSS	RING - oil (Includes expander)	1
6	C 26282	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235004	RETAINER - piston pin	2
8	NSS	PIN - piston	1
9	NSS	PISTON	1
10	KOA 237344	CONNECTING ROD ASSEMBLY (For undersize, see item 18)	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER - 3/8"	2
13	NSS	SCREW - cap, connecting rod	2
14	NSS	ROD - connecting.	1
15	C 26284	PISTON ASSEMBLY - .010" oversize	1
15	C 26190	PISTON ASSEMBLY - .020" oversize	1
15	C 26285	PISTON ASSEMBLY - .030" oversize	1
15	C 26283	PISTON ASSEMBLY - .003" oversize (order KO236763 std. ring set)	1
16	KO 236764	RING SET - piston .010" oversize	1
16	KO 236765	RING SET - piston .020" oversize	1
16	KO 236766	RING SET - piston .030" oversize	1
18	C 23135	CONNECTING ROD ASSEMBLY - .010" undersize.	1
19	R 16287	OIL SEAL - crankshaft rear	1
20	40035	BEARING - crankshaft ball	2
21	H 26492	KEY - 1/4" Sq. x 3/4" (Pump Coupling).	1
22	C 25054	CRANKSHAFT	1
23	H 233346	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel).	1
24	C 18097	OIL SEAL - crankshaft front	1
25	C 26421	WASHER - 5/8".	1
26	131- 580	NUT - special Marsden 5/8" NF	1



220 ENGINE BLOCK AND ATTACHING PARTS

To Order Complete Engine See Page 1

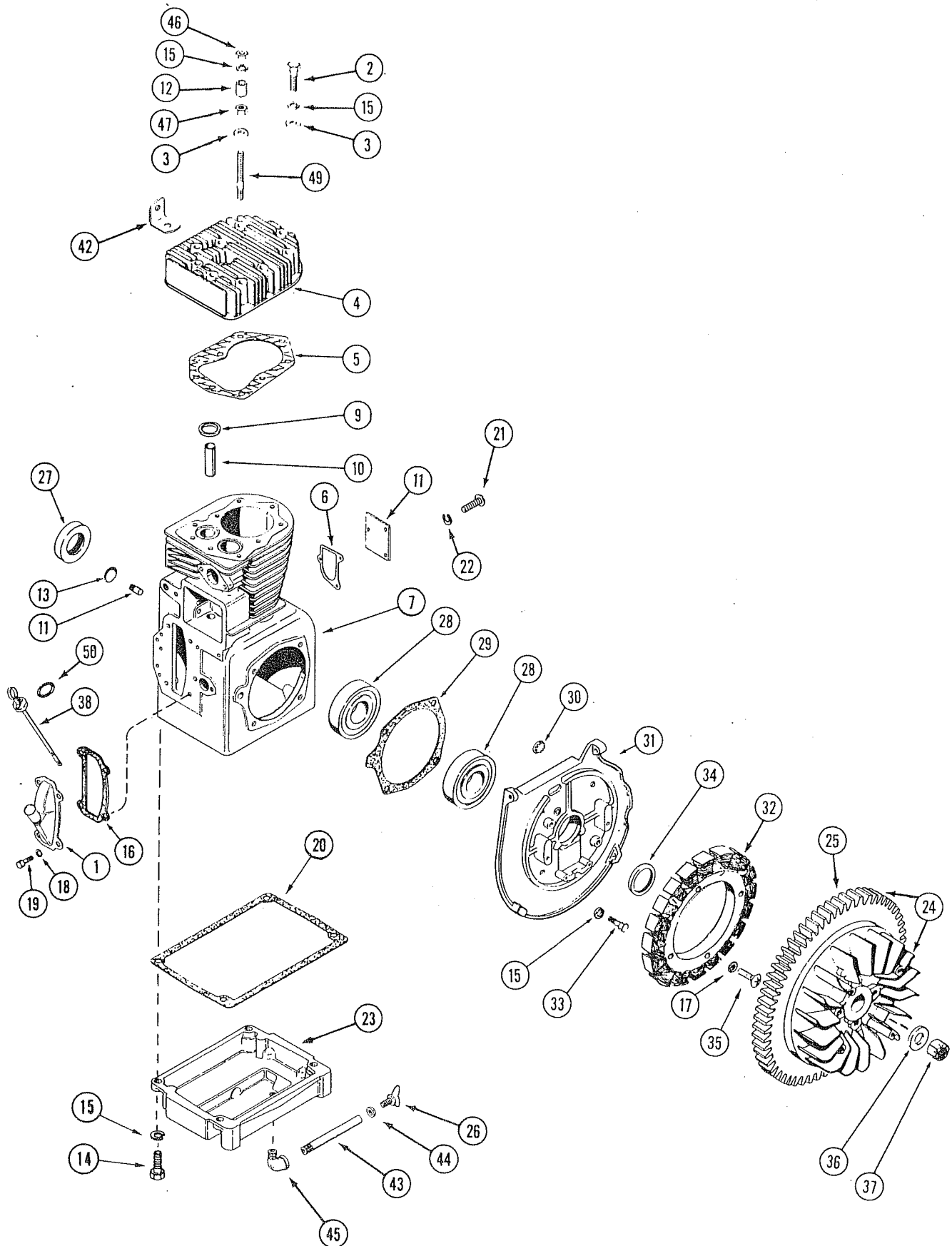
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 21814	SPACER - cylinder head	6
2	KO 270158	BOLT - cylinder head	2
3	KO 270889	WASHER - cylinder head	9
4	KO 236675	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
7	C 24139	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft, piston assembly, ring set, crankshaft seals, rod assembly, camshaft assembly, valves, bearings, plate and plate gasket, governor gear assembly and cross shaft) (also includes gaskets)	1
9	KO 230170	INSERT - exhaust valve	1
10	KO 235007-S	GUIDE - valve	2
11	KO 235125-S	SHAFT - stub, governor	1
12	V 34418	BEARING - needle, governor shaft	1
13	41- 18	PLUG - expansion	1
14	113- 209	BOLT - 3/8" x 1-1/2" NC hex plated (pack of 50)	4
15	92- 6	LOCKWASHER - 3/8" plated	17
16	KO 235025	GASKET - camshaft cover	1
17	KO 235026	COVER - camshaft gear	1
18	192- 19	LOCKWASHER - 1/4" plated	4
19	113- 1	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan	1
21	C 27279	FLYWHEEL ASSEMBLY	1
22	NSS	RING GEAR	1
23	C 22699	BASE - oil pan	1
24	193- 99	LOCKWASHER - internal tooth	4
25	182- 541	SCREW - stator	4
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - bearing plate	1
29	KO 235070	GASKET - shim, .010	UAR
30	205- 27	PLUG - button, timing hole	1
31	C 24290	PLATE - bearing	1
32	V 34427	STATOR - 15 amp.	1
	C 25338	CONNECTOR - stator	1
33	113- 207	BOLT - 3/8" x 1" NC plated (pack of 100)	4
34	C 18097	OIL SEAL - crankshaft front	1
36	C 26421	WASHER - special, plated	1
37	131- 580	NUT - special, Marsden	1
38	C 14953	DIPSTICK ASSEMBLY	1
39	A 27365	"O" RING - dipstick	1
42	KO 235748	STRAP - lifting	1
43	C 18814	NIPPLE - oil drain extension	1
44	C 14906	GASKET - plug, oil drain	1
45	221- 1412	ELBOW - street	1
46	129- 143	NUT - 3/8" NC hex. jam	6
47	129- 103	NUT - 3/8" NC hex	6
48	KO 237277	STUD - cylinder head	7



222 ENGINE BLOCK AND ATTACHING PARTS

To Order Complete Engine See Page 1

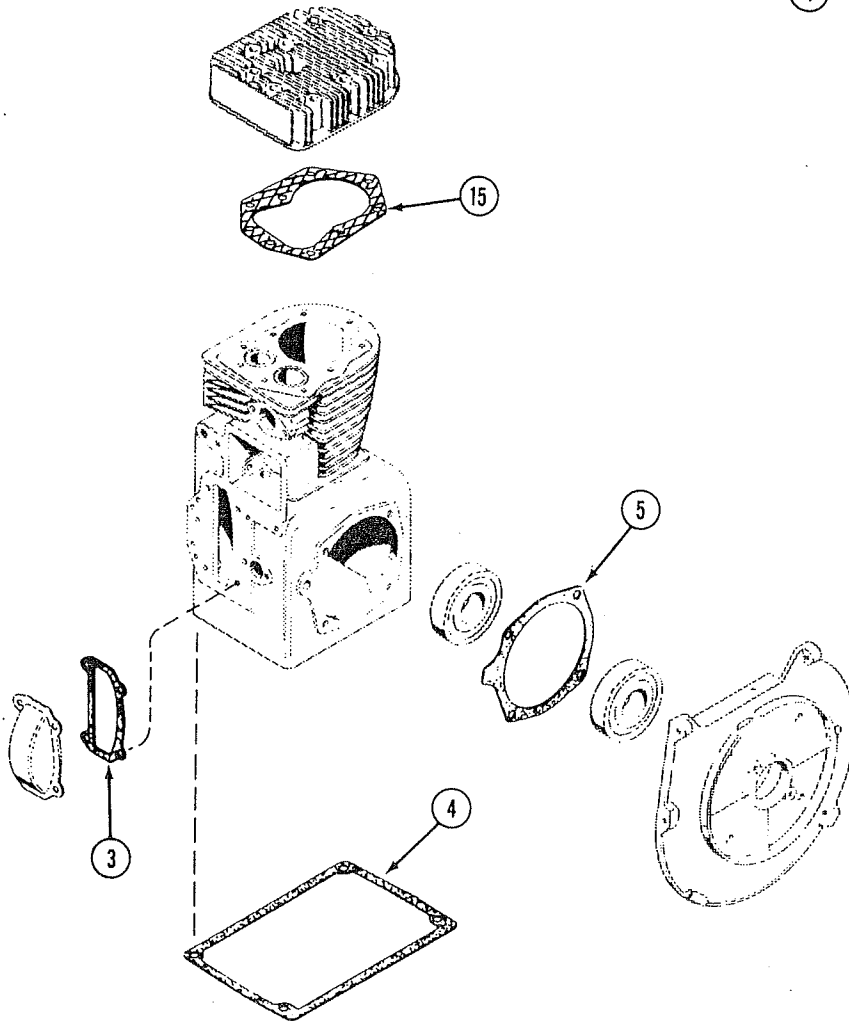
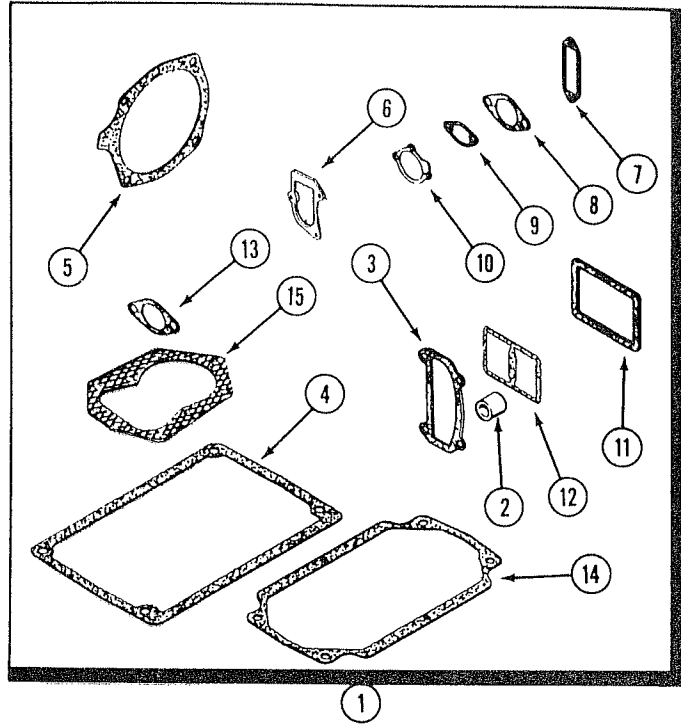
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 21814	SPACER - cylinder head	6
2	KO 270158	BOLT - cylinder head 3/8" x 1-1/2" NC hex.	2
3	KO 270889	WASHER - cylinder head	9
4	KO 237670	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
7	C 24141	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft, piston assembly, ring set, crankshaft seals, rod assembly, camshaft assembly, valves, bearings, plate and plate gasket, governor gear assembly and cross shaft) (also includes gasket set)	1
9	KO 230170	INSERT - exhaust valve	1
10	KO 235007-S	GUIDE - valve	2
11	KO 235125-S	SHAFT - stub, governor	1
12	V 34418	BEARING - needle, governor shaft	1
13	41- 18	PLUG - expansion.	1
14	113- 209	BOLT - 3/8" x 1-1/2" NC hex plated (pack of 50)	4
15	92- 6	LOCKWASHER - 3/8" plated.	17
16	KO 235025	GASKET - camshaft cover	1
17	KO 235026	COVER - camshaft gear.	1
18	192- 19	LOCKWASHER - 1/4" plated.	4
19	113- 1	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan.	1
21	C 27279	FLYWHEEL ASSEMBLY.	1
22	NSS	RING GEAR	1
23	C 22699	BASE - oil pan.	1
24	193- 99	LOCKWASHER - internal tooth.	4
25	182- 541	SCREW - stator.	4
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - bearing plate	6
29	KO 235070	GASKET - shim, .020"	UAR
30	205- 27	PLUG - button, timing hole	1
31	C 24290	PLATE - bearing	1
32	V 34427	STATOR	1
33	C 25338	CONNECTOR - stator	1
34	113- 107	BOLT - 3/8" x 1" NC plated (pack of 100)	4
36	C 18097	OIL SEAL - crankshaft front	1
37	C 26421	WASHER - special, plated	1
38	131- 580	NUT - special, Marsden	1
38	C 14953	DIPSTICK ASSEMBLY	1
39	A 27365	"O" RING - dipstick	1
42	KO 235748	STRAP - lifting	1
43	C 18814	NIPPLE - oil drain extension.	1
44	C 14906	GASKET - plug, oil drain.	1
45	221- 1412	ELBOW - street	1
46	129- 143	NUT - 3/8" NC hex, jam	6
47	129- 103	NUT - 3/8" NC hex	6
48	92- 6	LOCKWASHER - 3/8"	9
49	KO 237277	STUD - cylinder head	7



224 AND 444 ENGINE BLOCK AND ATTACHING PARTS

To Order Complete Engine See Page 1

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24490	FILLER TUBE	1
2	KO 270158	BOLT - cylinder head special 3/8" x 1-1/2" NC hex	2
3	KO 270889	WASHER - cylinder head bolt	9
4	KO 237670	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
6	KO 237064	GASKET - filler tube.	1
7	C 24143	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft and seals, ring set, piston assembly, rod assembly, camshaft assembly, valves, bearing, plate and plate gasket, governor gear assembly and cross shaft) (also includes gasket set)	1
9	KO 230170	INSERT - exhaust valve	1
10	KO 235007-S	GUIDE - valve	2
11	C 24495	COVER	1
12	C 21814	SPACER - cylinder head	1
13	41- 18	PLUG - expansion	1
14	113- 209	BOLT - 3/8" x 1-1/2" NC hex plated (pack of 50)	4
15	92- 6	LOCKWASHER - 3/8" plated	4
16	KO 235025	GASKET - camshaft cover, oil fill tube	1
17	193- 99	LOCKWASHER	4
18	192- 19	LOCKWASHER - 1/4" plated	4
19	113- 1	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan	1
21	173- 96	SCREW - #10 x 7/16" round head machine	3
22	193- 99	LOCKWASHER - #10 internal tooth	7
23	C 22699	BASE - oil pan	1
24	C 27279	FLYWHEEL ASSEMBLY	1
25	NSS	RING GEAR	1
26	C 14399	PLUG - oil drain.	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - bearing plate	1
29	KO 235070	GASKET - shim, .010"	UAR
30	205- 27	PLUG - button, timing hole	1
31	C 24290	PLATE - bearing	1
32	V 34427	STATOR	1
	C 25338	CONNECTOR - stator.	1
33	113- 207	BOLT - 3/8" x 1" NC plated (pack of 100)	4
34	C 18097	OIL SEAL - crankshaft front	1
35	182- 541	SCREW - stator.	4
36	C 26421	WASHER - special, plated 21/32" ID x 1-3/8" OD x 1/4"	1
37	131- 580	NUT - special Marsden 5/8"	1
38	C 24491	DIPSTICK ASSEMBLY	1
42	KO 235748	STRAP - lifting	1
43	C 18814	NIPPLE - oil drain extension	1
44	C 14906	GASKET - plug, oil drain	1
45	221- 1412	ELBOW - street	1
46	129- 143	NUT - 3/8" NC hex, jam	6
47	129- 103	NUT - 3/8" NC hex	6
49	KO 237277	STUD - cylinder head	7
50	F 62075	O-RING - dipstick	1



ENGINE GASKET AND SEAL KIT

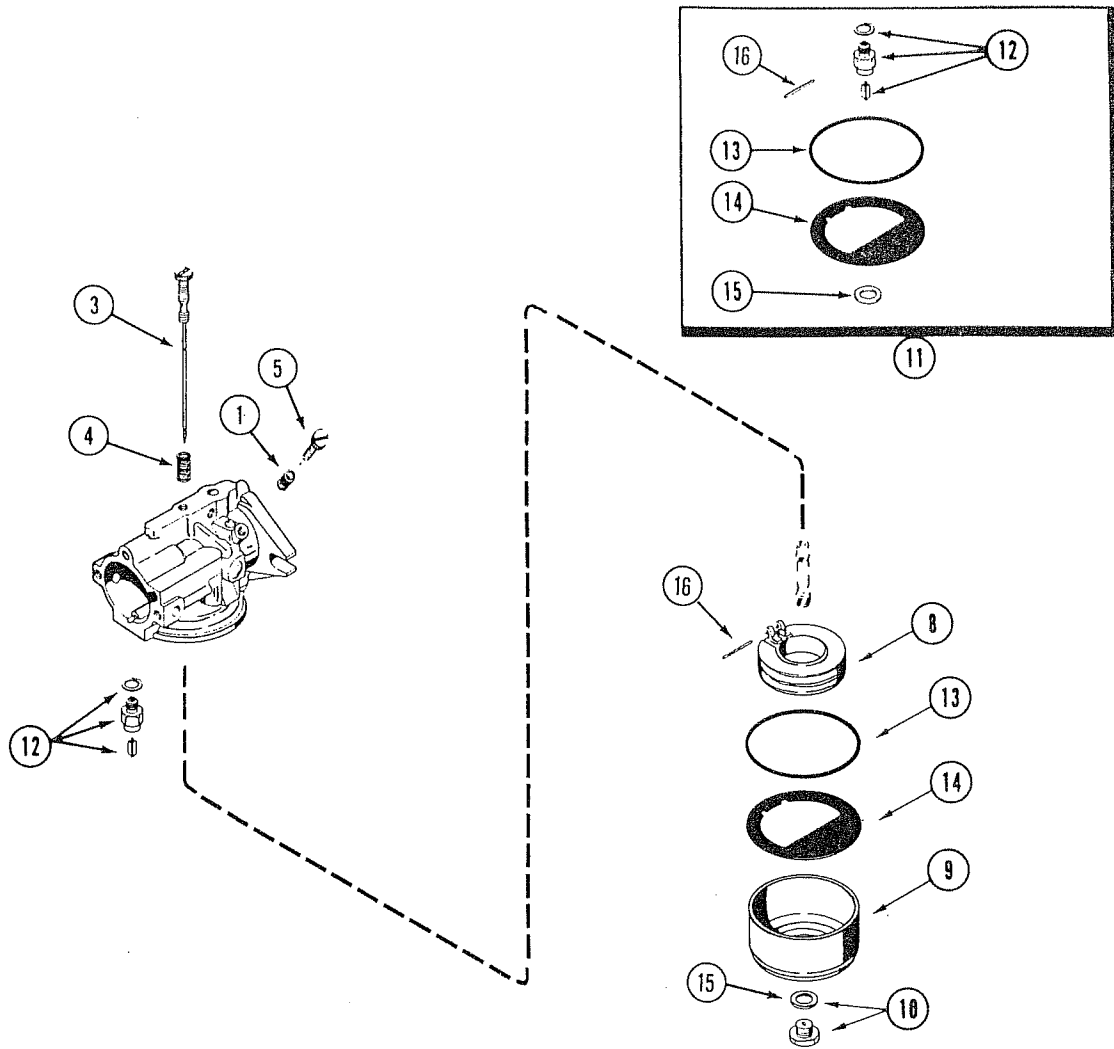
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23858	KIT - engine gasket (10 thru 14 hp engines)	1
2	KO 231032	SEAL - breather (14 hp engine)	1
3	KO 235025	GASKET - camshaft cover	1
4	KO 235353	GASKET - oil pan	1
5	KO 235757	GASKET - bearing plate	6
5	KO 235070	GASKET - shim (.010")	UAR
6	KO 237064	GASKET - oil fill tube (used on 14 hp)	1
7	C 26518	GASKET - breaker cover	1
8	C 23860	GASKET - carburetor flange	1
9	C 24887	GASKET - fuel pump flange	1
10	KO 275341	GASKET - carburetor air horn	1
11	KO 235048	GASKET - breather plate	1
12	KO 275144	GASKET - valve cover	1
13	C 10372	GASKET - exhaust	1
14	KO 235057	GASKET - pan (not used)	1
15	KO 237658	GASKET - cylinder head	1

BAFFLES AND SHROUDS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26985	DEFLECTOR - engine air	1
2	192- 19	LOCKWASHER - 1/4" zinc plated	2
3	113- 1	BOLT - 1/4" x 1/2" NC hex, zinc plated	2
4	KO 237520	BAFFLE - cylinder head (10 hp engine)	1
4	KO 237677	BAFFLE - cylinder head (12 - 14 hp engine)	1
5	KO 235652	BAFFLE - carburetor side air	1
6	C 24879	HOUSING - blower	1
7	113- 2	BOLT - 1/4" x 3/4" NC hex, zinc plated	4
8	192- 19	LOCKWASHER - 1/4" zinc plated	4
9	KO 236676	BAFFLE - cylinder	1

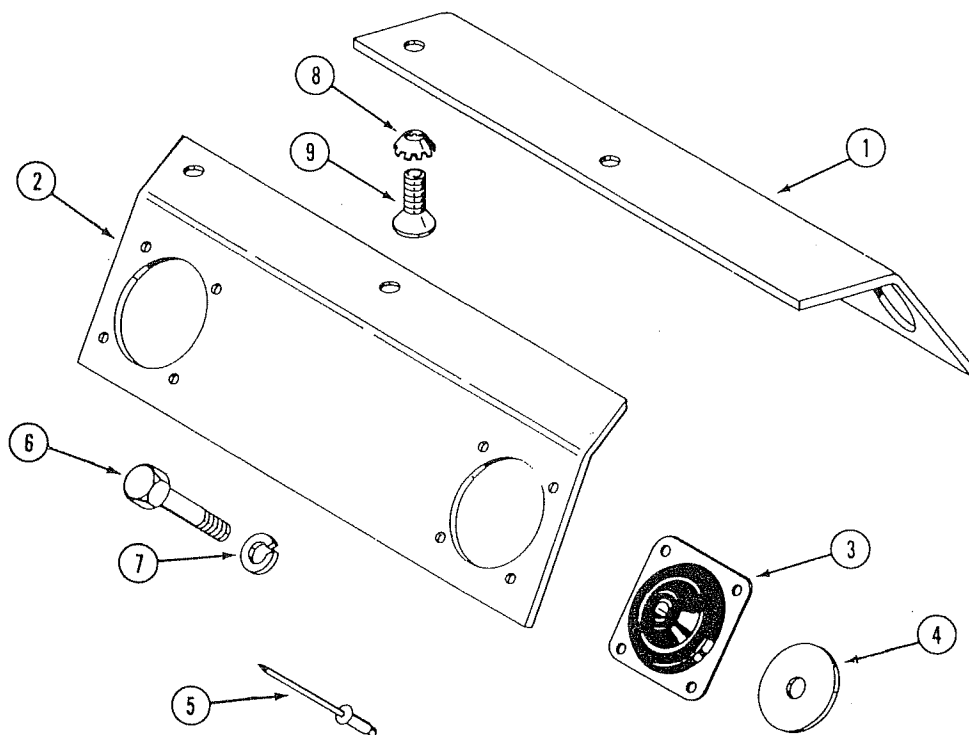
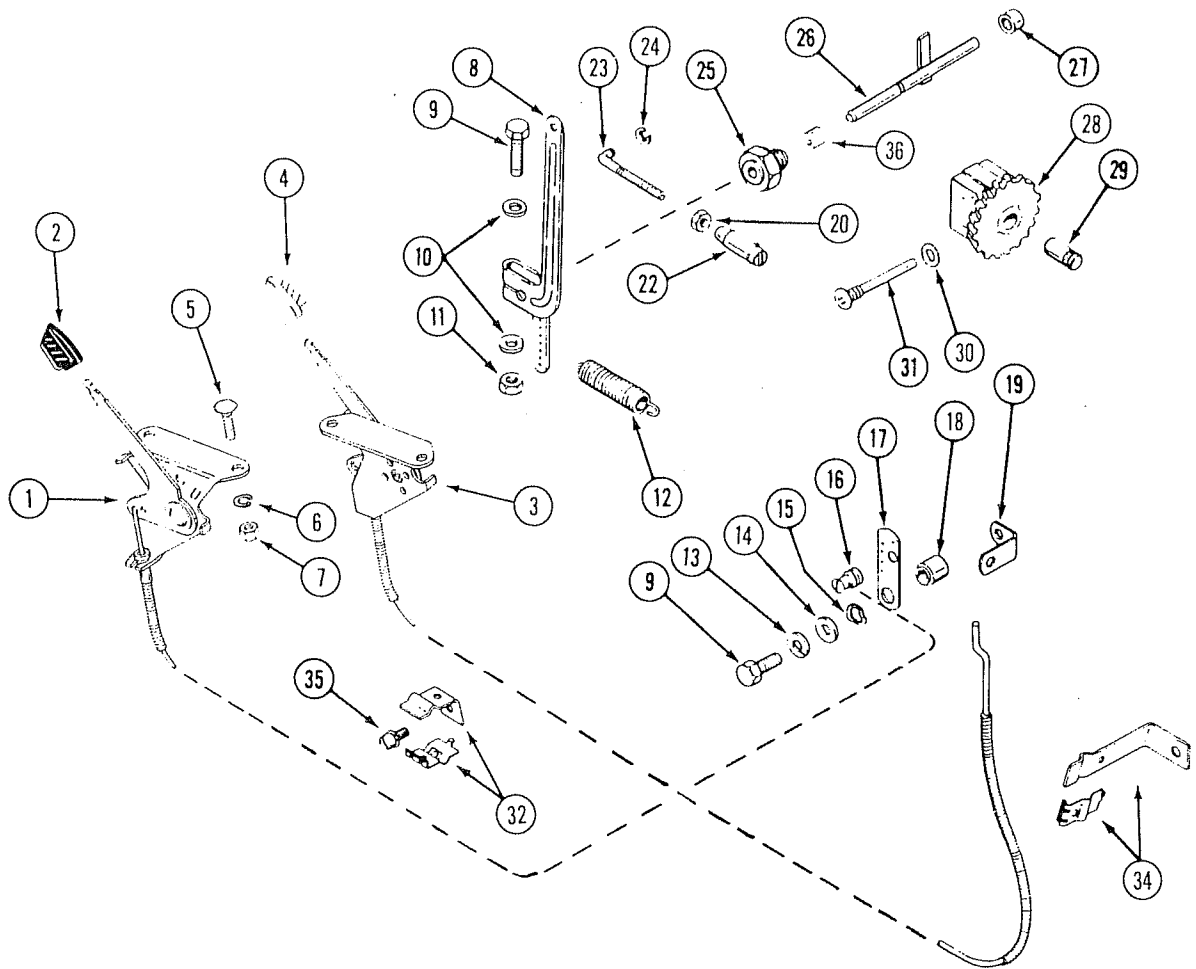
FUEL SYSTEM

1	C 24408	CARBURETOR ASSEMBLY - 444 & 224 (Repairs page 27)	1
1	C 23049	CARBURETOR ASSEMBLY - 220 & 222 (Repairs page 27)	1
2	C 23860	GASKET - carburetor flange	1
3	C 10678	ELBOW - fuel pump and carburetor	2
4	214- 252	CLAMP - hose 1/2"	4
5	C 18274	HOSE - carburetor 5-1/4"	1
6	192- 20	LOCKWASHER 5/16" (pack of 100)	2
7	113- 103	BOLT - 5/16" x 1" NC hex	2
8	C 24851	PUMP - fuel, all models (includes gasket & washers)	1
9	71- 412	SCREW - 1/4" x 3/4" NC fillister head	2
10	193- 28	LOCKWASHER - 1/4"	2
11	KO 275341	GASKET - air horn	1
12	C 23527	LINER - fuel tank	1
13	C 24887	GASKET - fuel pump mounting, all models	1
14	C 10657	ELBOW ASSEMBLY - fuel tank	1
15	A 62079	CLIP - fuel line	2
16	C 18274	HOSE - fuel line	1
17	NSS	TANK - fuel (use C26697)	1
18	C 11529	CAP - fuel tank (Includes insert)	1
19	NSS	INSERT - fuel cap	1
20	C 14690	CUSHION - fuel tank	2
21	217- 292	ELBOW - hose 90°	1



CARBURETOR

REF.	PART NO.	DESCRIPTION	REQ'D
	C 23049	CARBURETOR ASSEMBLY - 220, 222	1
	C 24408	CARBURETOR ASSEMBLY - 224 & 444	1
1	KO 200380	SPRING - tension, idle adjust	1
3	A 72077	NEEDLE - main fuel adjust, 220, 222	1
3	C 24652	NEEDLE - main fuel adjust, 224 & 444	1
4	KO 200383	SPRING - main fuel adjust	1
5	A 72099	NEEDLE - idle adjust (220, 222)	1
5	KO 275231	NEEDLE - idle adjust (224 & 444)	1
8	C 27276	FLOAT - carburetor	1
9	KO 235448	BOWL - carburetor	1
10	C 26422	SCREW AND GASKET ASSEMBLY - carburetor bowl	1
11	C 27278	KIT - carburetor repair	1
12	NSS	INLET NEEDLE AND SEAT ASSEMBLY	1
13	NSS	GASKET - bowl ring	1
14	NSS	GASKET - bowl baffle	1
15	NSS	GASKET - bowl screw	1
16	F 19892	PIN - float	1

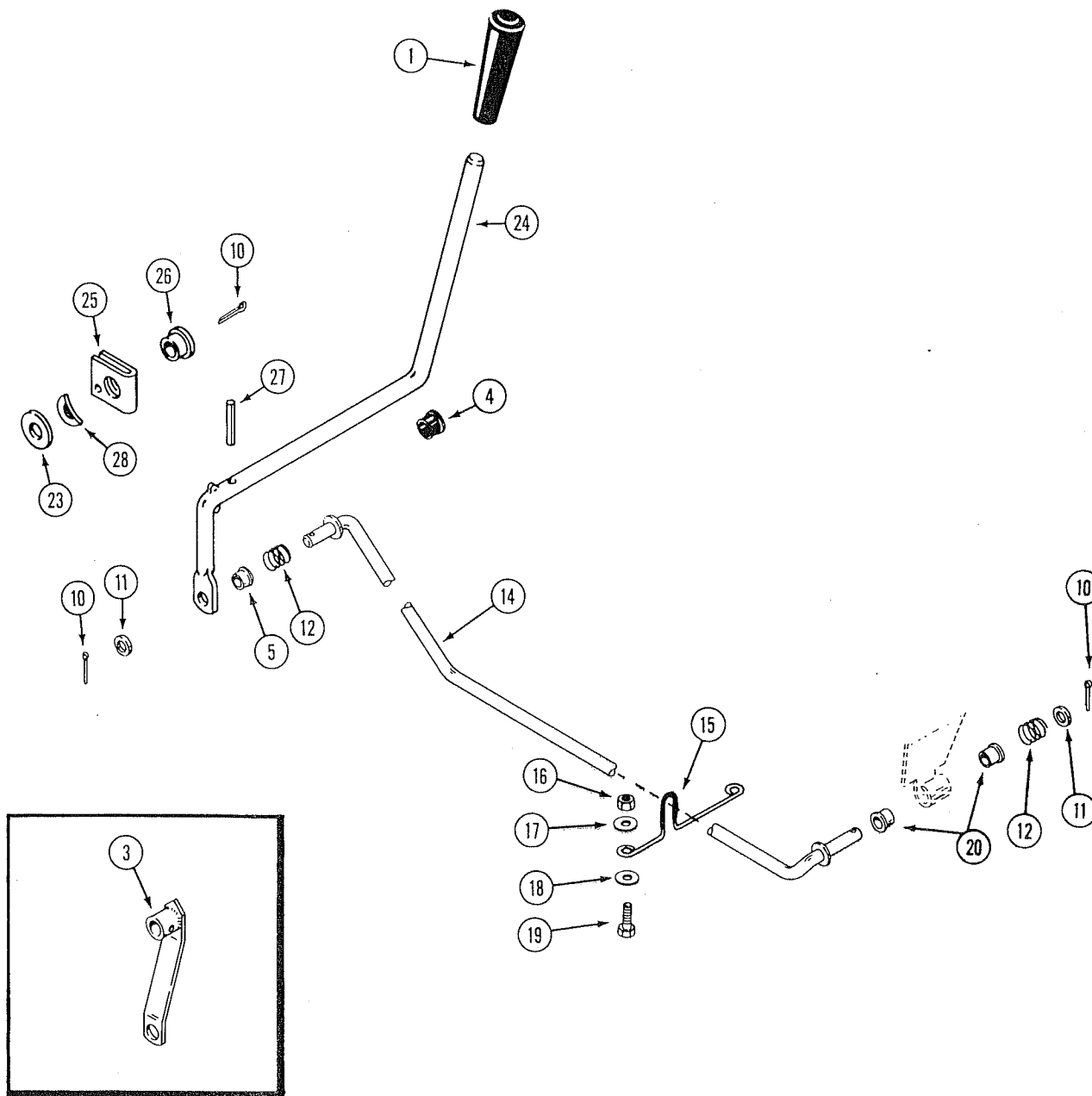


CHOKE, THROTTLE AND GOVERNOR

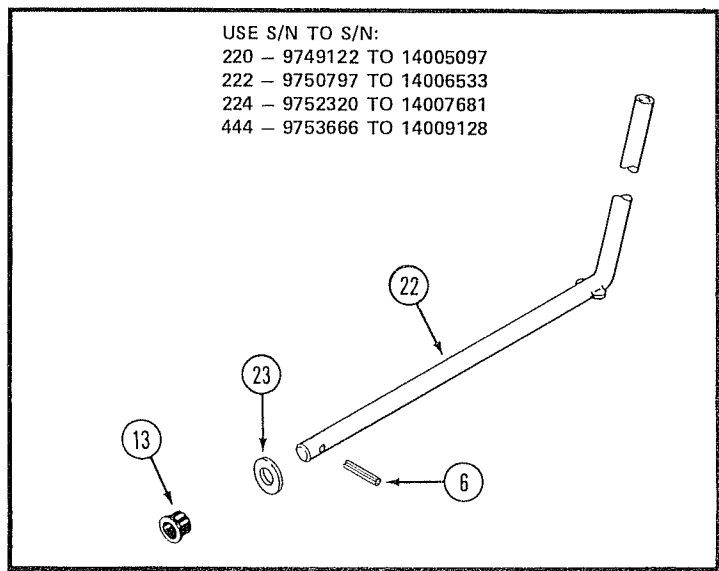
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25603	CONTROL - throttle	1
2	C 12224	HANDLE - throttle control, black	1
3	C 25605	CONTROL - choke	1
4	C 14506	HANDLE - choke control, white	1
5	111- 5	BOLT - 10-24 x 5/8" round head, square neck	2
6	192- 18	LOCKWASHER - #10 Std. plated	2
7	129- 17	NUT - #10-24 plated	2
8	KOA 237653	LEVER - governor	1
9	113- 17	BOLT - 1/4" x 1-1/4" NC hex	2
10	195- 518	WASHER - 1/4" plated	2
11	129- 101	NUT - 1/4" hex	1
12	KO 235496	SPRING - governor	1
13	192- 19	LOCKWASHER - 1/4" plated	1
14	C 18098	WASHER - thrust	1
15	KO 275690	WASHER - wavy	1
16	H 43034	CLAMP - swivel, wire	1
17	KO 235086	LEVER - speed control	1
18	KO 235085	SPACER - speed control bracket	1
19	KO 235084	BRACKET - high speed stop	1
20	129- 37	NUT - #10-32 hex	1
22	C 25020	JOINT - ball	1
23	KO 235277	ROD - throttle	1
24	49485	RING - retaining, throttle rod	1
25	KO 235476	BUSHING - governor cross shaft	1
26	C 23126	SHAFT - governor cross	1
27	V 34418	BEARING - needle, governor shaft	1
28	C 27274	GEAR ASSEMBLY - governor	1
29	KO 235125-S	SHAFT - governor stub	1
30	C 18099	WASHER - governor stop pin	1
31	V 34416	PIN - governor stop	1
32	KOA 237559	BRACKET - throttle cable	1
34	KOA 236919	BRACKET - choke cable	1
35	V 34421	SCREW - #10 x 3/8" NC fillister head	1
36	E 78369	SPACER - shaft (used engine S/N 3173783 and after)	1

ENGINE MOUNT PLATES

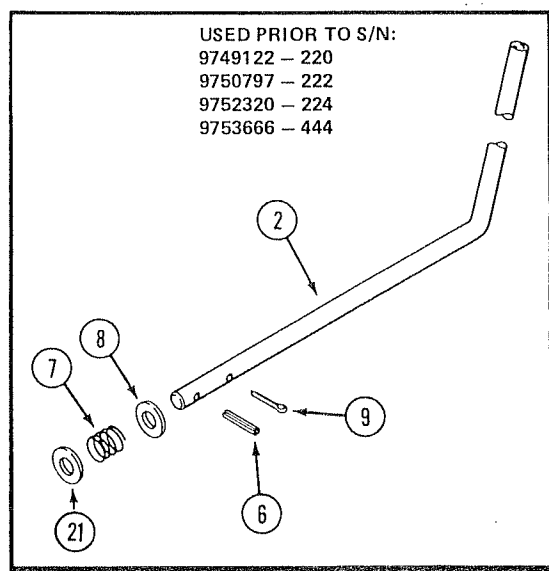
1	C 17717	PLATE - engine mount L.H.	1
2	C 17718	PLATE - engine mount R.H.	1
3	C 18793	MOUNT - engine	4
4	D 22988	WASHER - snubbing	4
5	151- 544	RIVET - 3/16"	16
6	113- 219	BOLT - 3/8" x 2" NC hex	4
7	192- 21	LOCKWASHER - 3/8"	4
8	193- 56	LOCKWASHER - 3/8" countersunk external tooth	4
9	164- 50	BOLT - flat head hex socket	4



USE S/N TO S/N:
220 – 9749122 TO 14005097
222 – 9750797 TO 14006533
224 – 9752320 TO 14007681
444 – 9753666 TO 14009128



USED PRIOR TO S/N:
9749122 - 220
9750797 - 222
9752320 - 224
9753666 - 444



PTO CLUTCH LINKAGE

REF.	PART NO.	DESCRIPTION	REQ'D
1	A 37247	KNOB - lever, PTO	1
2	NSS	LEVER - PTO engaging (order item 22 and 23)	1
3	C 24872*	ARM ASSEMBLY - PTO	1
3	C 24792	ARM ASSEMBLY - PTO (used prior to 220 - S/N 9734921, 222 - S/N 9737066, 224 - S/N 9738351 and 444 - S/N 9739749)	1
4	353- 462	BUSHING - lever, dash tower	1
5	C 20093	BUSHING - fliplock	1
6	138- 96	PIN - roll - 3/16" x 1"	1
7	C 20036	SPRING - lever, PTO.	1
8	A 39519	WASHER - nylon	1
9	132- 91	PIN - cotter 3/16 x 1"	1
10	132- 310	PIN - cotter 1/8 x 1"	2
11	C 14906	WASHER - nylon 3/8"	2
12	C 19867	SPRING - clutch rod	2
13	C 26266	BUSHING - heyco	1
14	C 20041	ROD - clutch	1
15	C 19767	GUIDE - clutch rod	1
16	131- 1181	NUT - lock 3/8" n.c. hex	2
17	195- 104	WASHER - 3/8"	2
18	195- 137	WASHER - spacer (used on models without hyd. lift)	2
19	113- 207	BOLT - 3/8 x 1" n.c. hex	2
20	C 20053	BUSHING - nylon	2
21	195- 2069	WASHER - 5/8"	1
22	C 25013	LEVER - PTO engaging	1
23	195- 533	WASHER - 1/2"	1
24	C 26265	LEVER - PTO engaging	1
25	C 26264	BRACKET - support, PTO lever.	1
26	C 26266	BUSHING - flange, nylon.	1
27	138- 63	PIN - roll 1/8" x 1-1/4"	1
28	H 202325	WASHER - spring	1

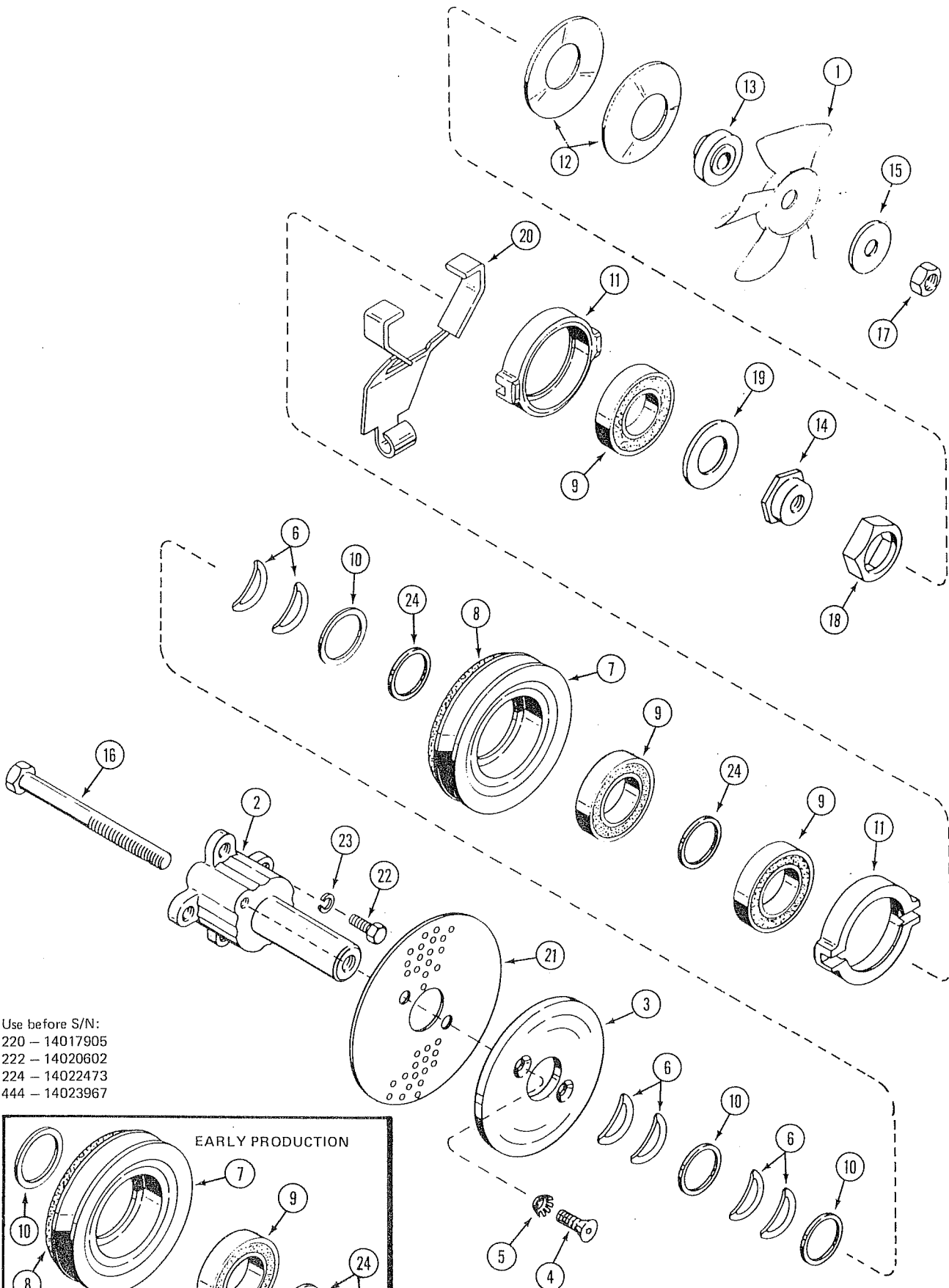
*use S/N to S/N:

220 - 9734921 to 14005097

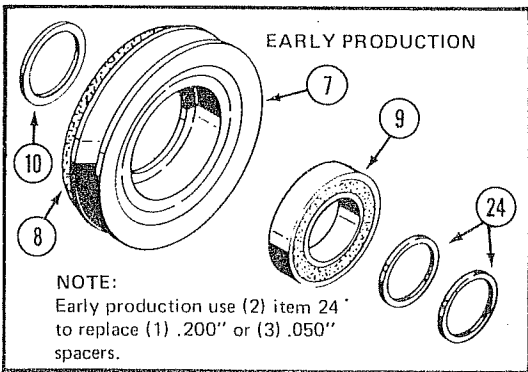
222 - 9737066 to 14006533

224 - 9738351 to 14007681

444 - 9739749 to 14009128



Use before S/N:
 220 - 14017905
 222 - 14020602
 224 - 14022473
 444 - 14023967



CLUTCH ASSEMBLY (PTO)

REF.	PART NO.		DESCRIPTION	REQ'D
	NSS		CLUTCH AND FAN ASSEMBLY (use C27150)	1
1	C	16616	FAN - cooling	1
2	C	23677	HUB - clutch	1
3	C	15718	PLATE - clutch	1
4	164-	40	BOLT - 5/16" - 18 x 3/4"	2
5	193-	76	LOCKWASHER - 5/16" countersunk external tooth	2
6	C	15515	WASHER - spring	6
7	C	26353	KIT - pulley and disc assembly (includes item 24)	1
8	C	23740	KIT - friction disc	1
9	C	23245	BEARING - ball	3
10	C	15557	WASHER - spacer .050	3
11	C	23033	CAM - clutch	2
12	C	16786	SPRING - clutch load	2
13	C	23630	SPACER - hub	1
14	C	23625	NUT - adjust	1
15	O	2815N	WASHER - fan 17/32"	1
16	C	24743	BOLT - 1/2" - 20 x 5-1/2" NF	1
17	129-	125	NUT - 1/2" - 20 NF	1
18	C	23627	GUIDE - adjusting nut	1
19	C	23624	WASHER - spacer	1
20	NSS		ARM - engaging (use C26166)	1
21	NSS		SCREEN - grass (use (2) C26758)	1
22	113-	207	BOLT - 3/8" - 16 x 1" NC	4
23	192-	21	LOCKWASHER - 3/8"	4
24	C	26346*	SPACER - washer .100" (see note on opposite page for early production) ..	2

* Use S/N and after:

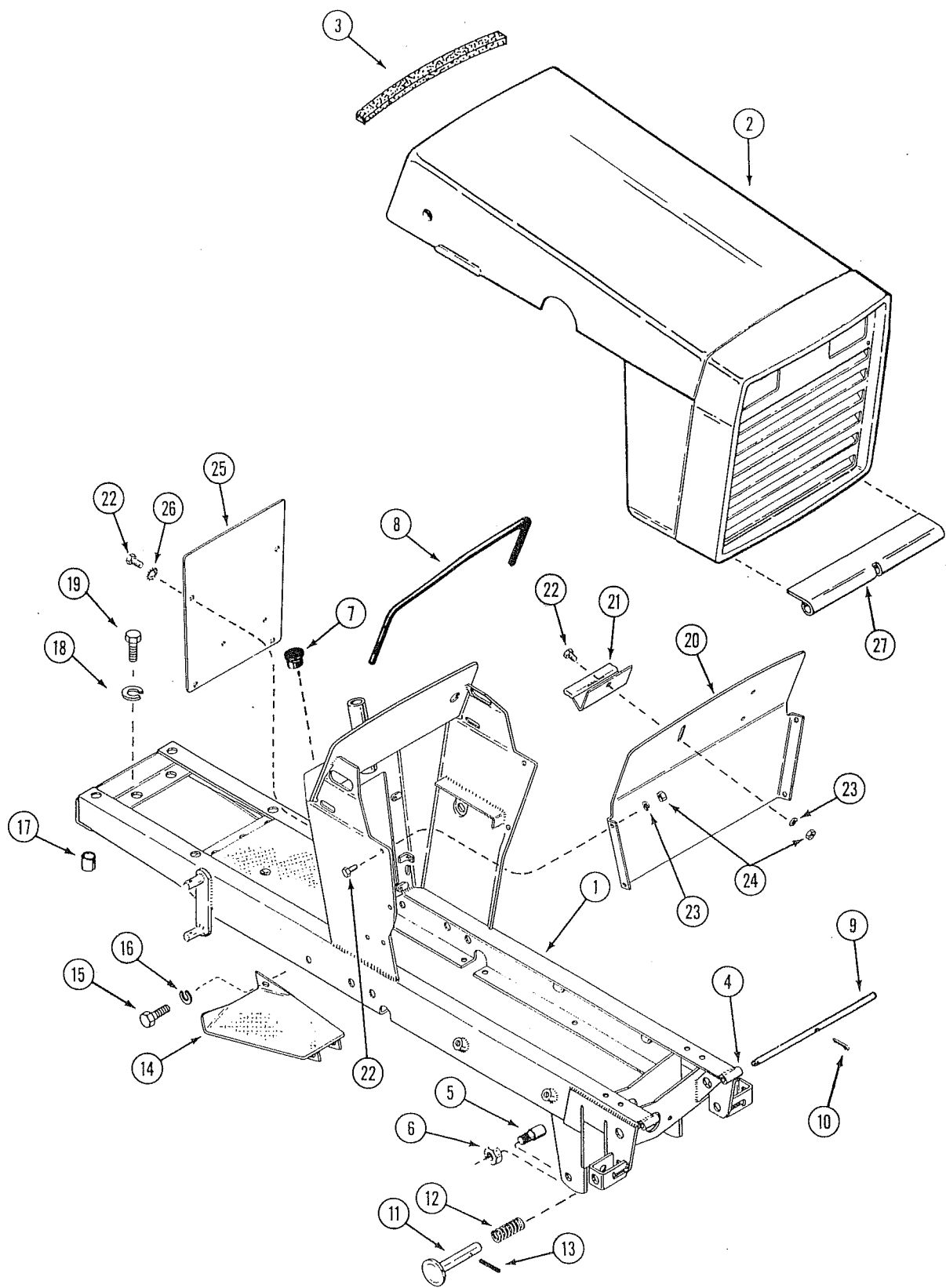
220 — 14017905

222 — 14020602

224 — 14022473

444 — 14023967

On some late production, item 24 is replaced by
(2) .050" spacers. Use item 24 for service.



HOOD, FRAME AND GRILLE

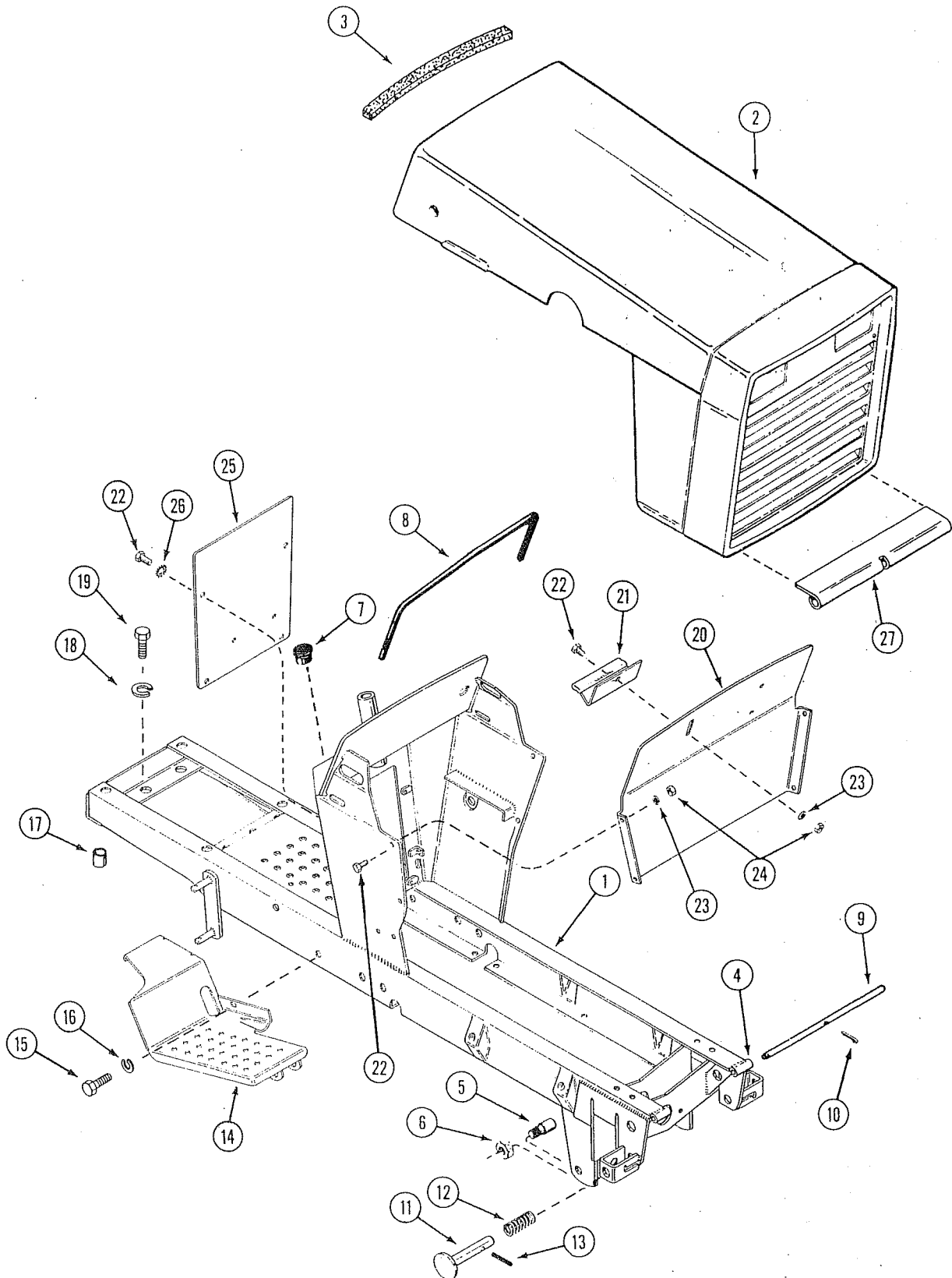
220 — USE BEFORE S/N 9762275

222 — USE BEFORE S/N 9763700

224 — USE BEFORE S/N 9765195

444 — USE BEFORE S/N 9766840

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25307	FRAME - main (220, 222 and 224) (also order C24872 arm prior to 220 - S/N 9734921, 222 - S/N 9737066, 224 - S/N 9738351)(shown) . . .	1
1	C 24771	FRAME - main (444) (also order C24872 arm prior to S/N 9739749)	1
2	C 22775	HOOD AND GRILLE ASSEMBLY (includes item 27)	1
3	C 23527	LINER - hood	1
4	C 22023	HINGE - frame	2
5	C 18733	PIN - attachment	2
6	131- 1318	NUT - lock 1/2" NF jam	2
7	353- 406	PLUG - hole (models without hydraulic lift)	1
8	C 18153	CHANNEL - instrument panel	1
9	C 16362	ROD - hood hinge	1
10	132- 46	PIN - cotter 1/8" x 3/4"	1
11	C 16373	PIN - latch	2
12	C 24137	SPRING - latch	2
13	138- 319	PIN - roll 3/16" x 1-1/4"	2
14	C 18890	PAD - foot rest, L.H.	1
14	C 18150	PAD - foot rest, R.H.	1
15	113- 113	BOLT - 5/16" x 7/8" N.C. hex	2
16	192- 20	LOCKWASHER - 5/16"	2
17	C 14729	SPACER - frame, rear (444).	2
17	C 14730	SPACER - frame, rear (220, 222 and 224).	2
18	192- 23	LOCKWASHER - 1/2"	4
19	113- 424	BOLT - 1/2" x 1" N.C. hex	4
20	C 24821	SHIELD - heat	1
21	C 24820	CLIP - battery hold down	1
22	113- 1	BOLT - 1/4" - 20 x 1/2	9
23	192- 19	LOCKWASHER - 1/4"	5
24	129- 101	NUT - 1/4" - 20	5
25	C 24822	COVER - access	1
26	193- 57	LOCKWASHER	4
27	C 16361	HING - hood	1



HOOD, FRAME AND GRILLE

220 — USE S/N 9762275 AND AFTER

222 — USE S/N 9763700 AND AFTER

224 — USE S/N 9765195 AND AFTER

444 — USE S/N 9766840 AND AFTER

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26938†	FRAME - main (220, 222 and 224)(shown)	1
1	C 26940†	FRAME - main (444)	1
2	C 22775	HOOD AND GRILLE ASSEMBLY (includes item 27)	1
3	C 23527	LINER - hood	1
4	C 22023	HINGE - frame	2
5	C 18733	PIN - attachment	2
6	131- 1318	NUT - lock 1/2" NF	2
7	353- 406	PLUG - hole (models without hydraulic lift)	1
8	C 18153	CHANNEL - instrument panel	1
9	C 16362	ROD - hood hinge	1
10	132- 46	PIN - cotter 1/8" x 3/4"	1
11	C 16373	PIN - latch	2
12	C 24137	SPRING - latch	2
13	138- 319	PIN - roll 3/16" x 1-1/4"	2
14	C 25317	PAD - foot rest, L.H.	1
14	C 25318	PAD - foot rest, R.H.	1
15	113- 113	BOLT - 5/16" x 7/8" N.C. hex	4
16	192- 20	LOCKWASHER - 5/16"	4
17	C 14729	SPACER - frame, rear (444)	2
17	C 14730	SPACER - frame, rear (220, 222 and 224)	2
18	192- 23	LOCKWASHER - 1/2"	4
19	113- 424	BOLT - 1/2" x 1" N.C. hex	4
20	C 24821	SHIELD - heat	1
21	C 24820	CLIP - battery hold down	1
22	113- 1	BOLT - 1/4" - 20 x 1/2	9
23	192- 19	LOCKWASHER - 1/4"	5
24	129- 101	NUT - 1/4" - 20	5
25	C 24822*	COVER - access	1
25	C 26506**	COVER - access	1
26	193- 57	LOCKWASHER	4
27	C 16361	HING - hood	1

†also use C26266, C26265, C26264, 195-533,
138-63 and 132-310 before S/N:

220 — 14005097

222 — 14006533

224 — 14007681

444 — 14009128

*use 220 - before S/N 9779774

222 - before S/N 9781310

224 - before S/N 9782979

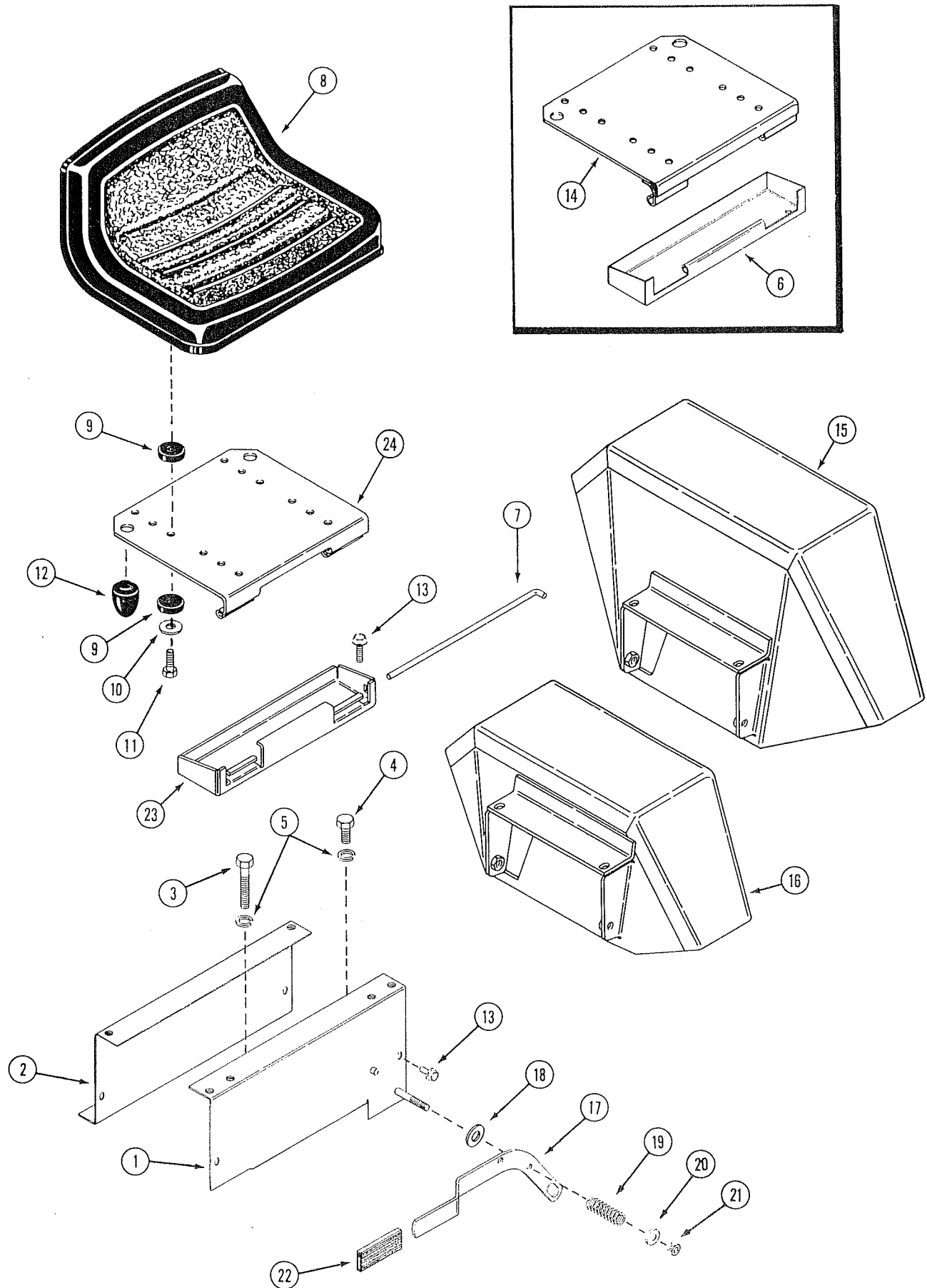
444 - before S/N 9784373

**use 220 - S/N 9779774 and after

222 - S/N 9781310 and after

224 - S/N 9782979 and after

444 - S/N 9784373 and after



SEAT, FENDERS AND TOOL TRAY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26066	SUPPORT - seat, front	1
2	NSS	SUPPORT - seat, rear (use C26695)	1
3	113- 441	BOLT - 1/2 x 2-1/4" NC hex (444)	2
3	113- 427	BOLT - 1/2 x 3-1/4" NC hex (220, 222 and 224)	2
4	113- 424	BOLT - 1/2 x 1" NC hex	2
4	113- 118	BOLT - 5/16" x 5/8"	1
5	192- 20	LOCKWASHER - 5/16"	1
5	192- 23	LOCKWASHER - 1/2"	4
6	C 19417*	TRAY - tool	1
7	C 16429	PIN - seat hinge	1
8	C 26214	SEAT - (220, 222 and 224)	1
8	C 26215	SEAT - (444)	1
9	D 59705	CUSHION - rubber	8
10	195- 2175	WASHER - 5/16 x 1-1/4" OD, zinc plated.	4
11	113- 122	BOLT - 5/16 x 1-1/2"	4
12	C 14534	BUMPER - seat	2
13	121- 106	BOLT - 5/16 x 1/2" flange whizlock	10
14	C 17152*	HINGE ASSEMBLY - seat	1
15	C 16444	FENDER - L.H. (444) use before S/N 9766840	1
15	C 16445	FENDER - R.H. (444) use before S/N 9766840	1
15	C 25303	FENDER - L.H. (444) use S/N 9766840 and after.	1
15	C 25304	FENDER - R.H. (444) use S/N 9766840 and after.	1
16	C 25297	FENDER - L.H. (use 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195 and after)	1
16	C 25298	FENDER - R.H. (use 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195 and after)	1
16	C 16446	FENDER - L.H. (use before 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195).	1
16	C 16447	FENDER - R.H. (use before 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195).	1
17	C 16393	LEVER - shift	1
18	195- 525	WASHER - 7/16 x 1-1/4" OD.	1
19	C 17216	SPRING - shift lever	1
20	C 17066	WASHER - cupped	1
21	131- 1181	NUT - lock 3/8" NC hex	1
22	C 14728	GRIP - shift lever	1
23	C 26028**	TRAY - tool	1
24	C 26029**	HINGE - seat.	1

*use before S/N:

220 - 9780394

222 - 9782118

224 - 9783605

444 - 9785020

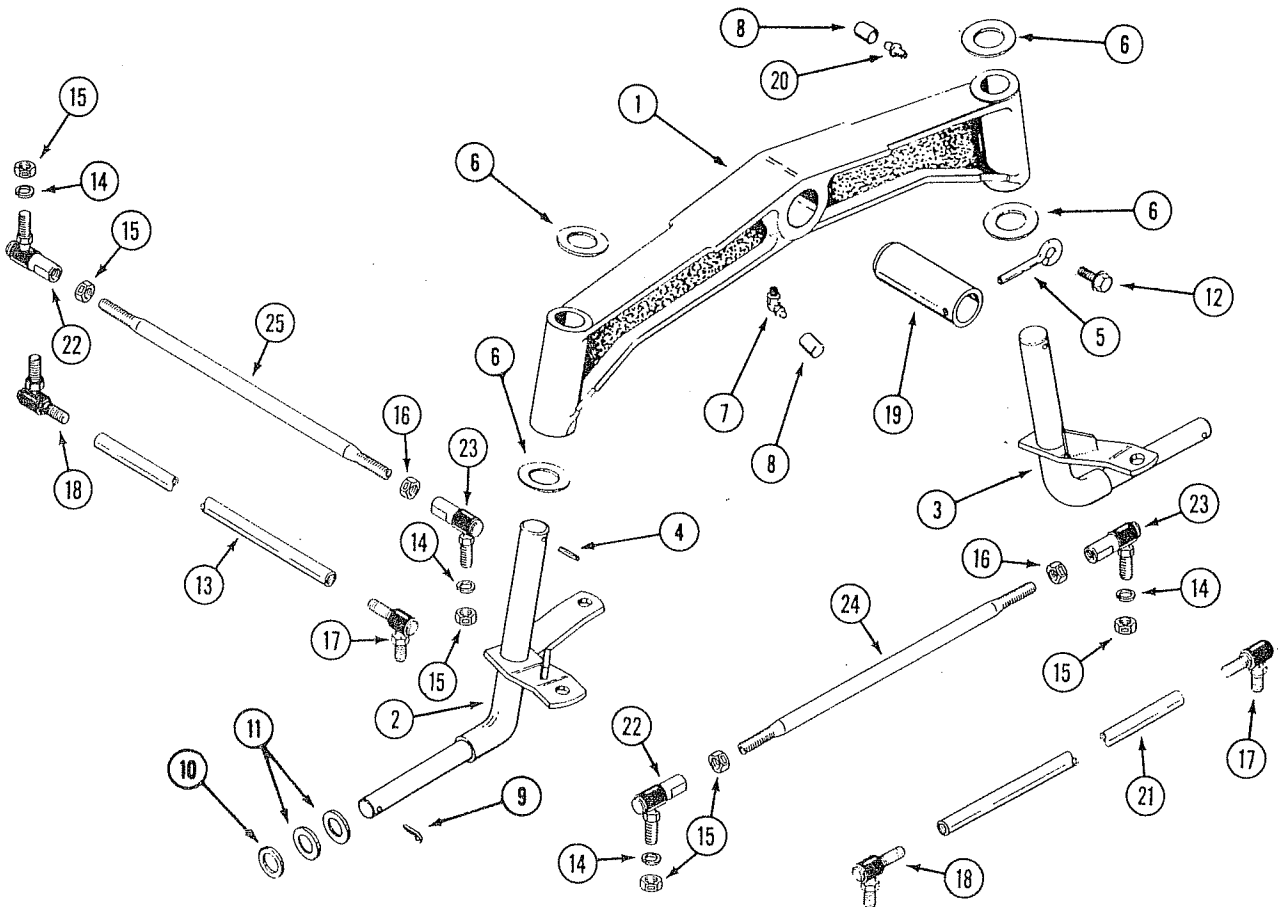
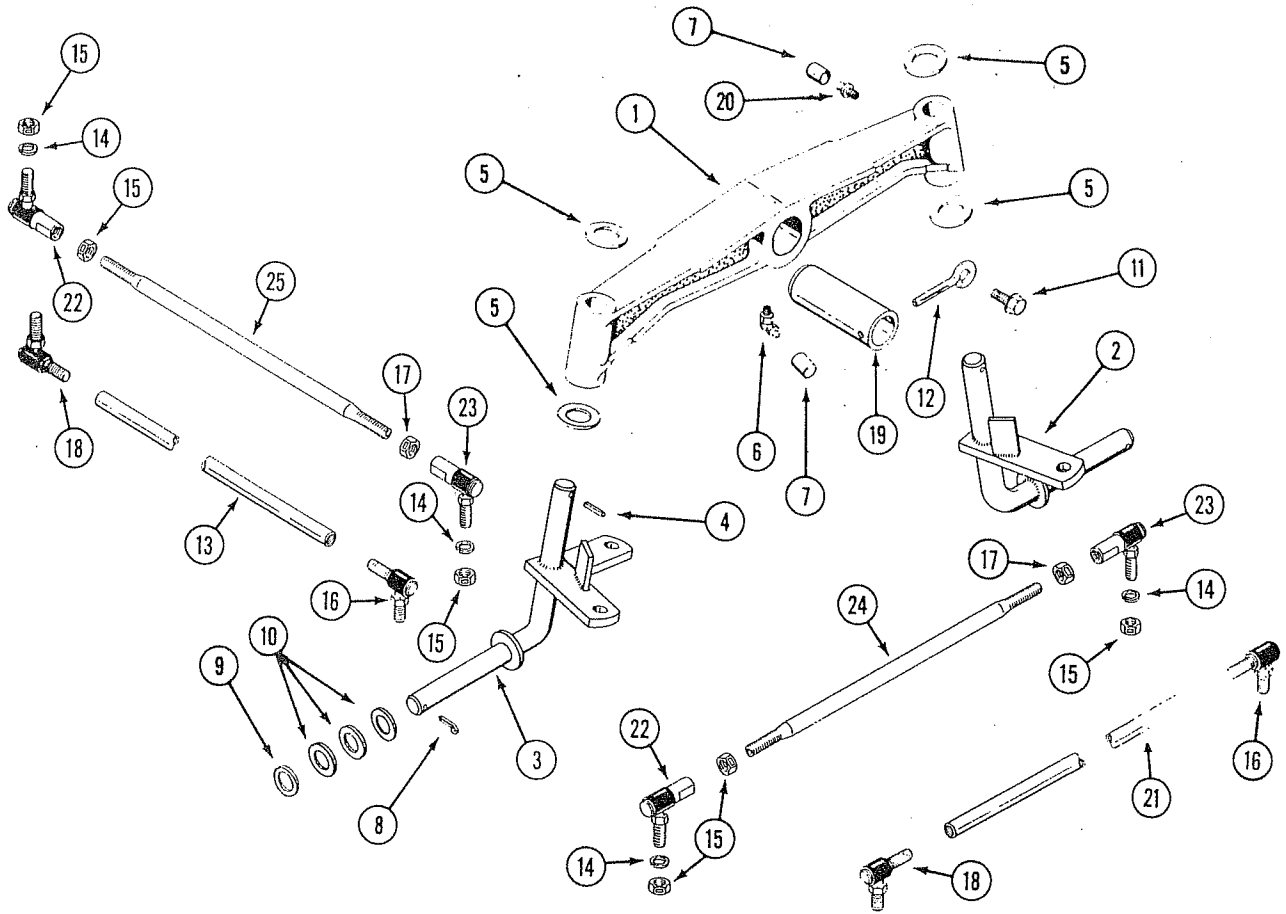
**use S/N and after:

220 - 9780394

222 - 9782118

224 - 9783605

444 - 9785020



220, 222 AND 224 FRONT AXLE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18812	AXLE - front	1
2	C 18777	SPINDLE - left hand	1
3	C 18779	SPINDLE - right hand	1
4	138- 99	PIN - roll	2
5	C 11906	WASHER - thrust	4
6	219- 404	FITTING - lube	1
7	C 13106	COVER - lube fitting	3
8	132- 311	PIN - cotter 5/32 x 1-1/4"	2
9	C 12975	WASHER - wheel spindle	2
10	A 30881	WASHER - wheel spacer	6
11	187- 1910	BOLT - 3/8" NC indented hex head	1
12	C 22278	PIN - retaining, axle pivot	1
13	C 22992*	KIT - drag link rod	1
14	192- 23	LOCKWASHER - 1/2" zinc plated	3
15	129- 165	NUT - jam 1/2" N.F. hex R.H. thread	6
16	C 21527*	BALL JOINT - 1/2" L.H. thread	2
17	129- 376	NUT - jam 1/2" N.F. hex L.H. thread	2
18	C 21526*	BALL JOINT - R.H. thread	2
19	C 22568	TUBE - axle pivot	1
20	219- 17	FITTING - lube	2
21	C 21530*	TIE ROD	1
22	C 12102**	BALL JOINT - R.H. thread	2
23	C 13605**	BALL JOINT - L.H. thread	2
24	C 25856**	TIE ROD	1
25	C 25857**	ROD - drag link	1

*use before S/N:

**use S/N and after:

220 - 9780558

220 - 9780558

222 - 9782235

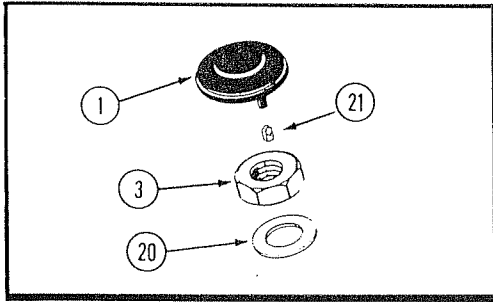
222 - 9782235

224 - 9783760

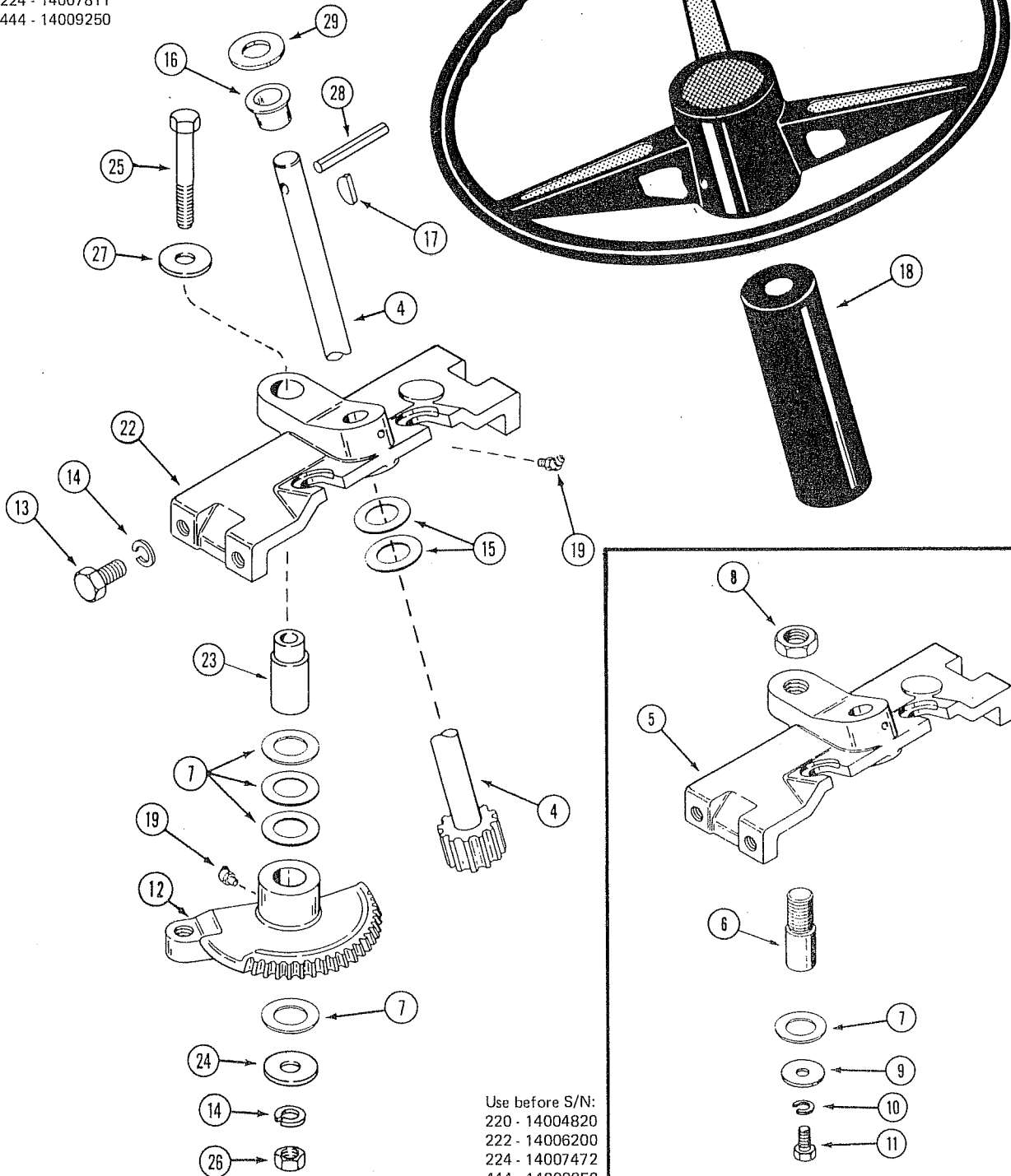
224 - 9783760

444 FRONT AXLE

1	C 18813	AXLE - front	1
2	C 26205	SPINDLE - right hand	1
3	C 26206	SPINDLE - left hand	1
4	138- 99	PIN - roll	2
5	C 22278	PIN - retaining, axle pivot	1
6	C 13716	WASHER - thrust	4
7	219- 404	FITTING - lube	1
8	C 13106	COVER - lube fitting	3
9	132- 311	PIN - cotter 5/32 x 1-1/4"	2
10	C 12975	WASHER - wheel spindle	2
11	A 30881	WASHER - wheel spacer	4
12	187- 1910	BOLT - 3/8" NC indented hex head	1
13	C 22992	KIT - drag link rod (use before S/N 9785170)	1
14	192- 23	LOCKWASHER - 1/2" zinc plated	3
15	129- 165	NUT - jam 1/2" N.F. hex R.H. thread	6
16	129- 376	NUT - jam 1/2" N.F. hex L.H. thread	2
17	C 21527	BALL JOINT - L.H. thread (use before S/N 9785170)	2
18	C 21526	BALL JOINT - R.H. thread (use before S/N 9785170)	2
19	C 22568	TUBE - axle pivot	1
20	219- 17	FITTING - lube	2
21	C 21529	TIE ROD - (use before S/N 9785170)	1
22	C 12102	BALL JOINT - R.H. thread (use after S/N 9785170)	2
23	C 13605	BALL JOINT - L.H. thread (use after S/N 9785170)	2
24	C 25855	TIE ROD - (use after S/N 9785170)	1
25	C 25857	ROD - drag link (use after S/N 9785170)	1



Use before S/N:
 220 - 14005231
 222 - 14006712
 224 - 14007811
 444 - 14009250



Use before S/N:
 220 - 14004820
 222 - 14006200
 224 - 14007472
 444 - 14008850

STEERING GEAR

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 16945	CAP - steering wheel	1
2	C 18014*	WHEEL - steering	1
2	C 26325**	WHEEL - steering	1
3	131- 1113	NUT - lock 5/8" Gripco.	1
4	C 16200*	SHAFT - steering	1
4	C 26326**	SHAFT - steering	1
5	NSS	SUPPORT steering gear (use items 14, 22, 23, 24, 25, 26 and 27)	1
6	C 14200	PIN - pivot	1
7	C 14201	WASHER - shim	4
8	129- 148	NUT - jam 3/4"	1
9	195- 2021	WASHER	1
10	192- 20	LOCKWASHER - 5/16" zinc plated	1
11	113- 102	BOLT - 5/16" x 3/4" NC hex	1
12	C 18711	GEAR - steering	1
13	113- 206	BOLT - 3/8" x 3/4" NC hex	4
14	192- 21	LOCKWASHER - 3/8"	5
15	195- 2069	WASHER - 5/8" zinc plated	2
16	C 15096	BUSHING - flanged nylon	1
17	126- 16	KEY - Woodruff 3/16" x 3/4" (early production)	1
18	C 24098	TUBE - steering	1
19	219- 404	FITTING - lube 45°	2
20	C 12975	WASHER - 5/8"	2
21	C 18017	CLIP - tinnerman	2
22	C 25788	SUPPORT - steering gear	1
23	C 25787	PIN - pivot	1
24	195- 2029	WASHER - 7/16" x 1.25	2
25	113- 241	BOLT - 3/8" - 16 x 3" hex	1
26	129- 103	NUT - 3/8" - 16 hex	1
27	195- 137	WASHER - 1-1/8" O.D.	1
28	138- 143	PIN - roll 1/4" x 2-1/4"	1
29	195- 541	WASHER - 5/8"	1
	C 13106	COVER - lube fitting	2

*use before S/N:

220 - 14005231

222 - 14006712

224 - 14007811

444 - 14009250

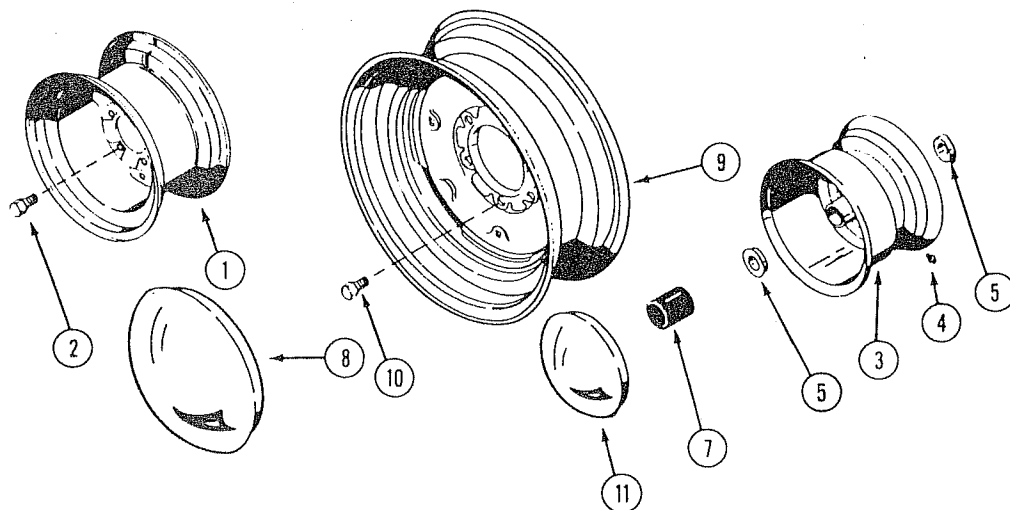
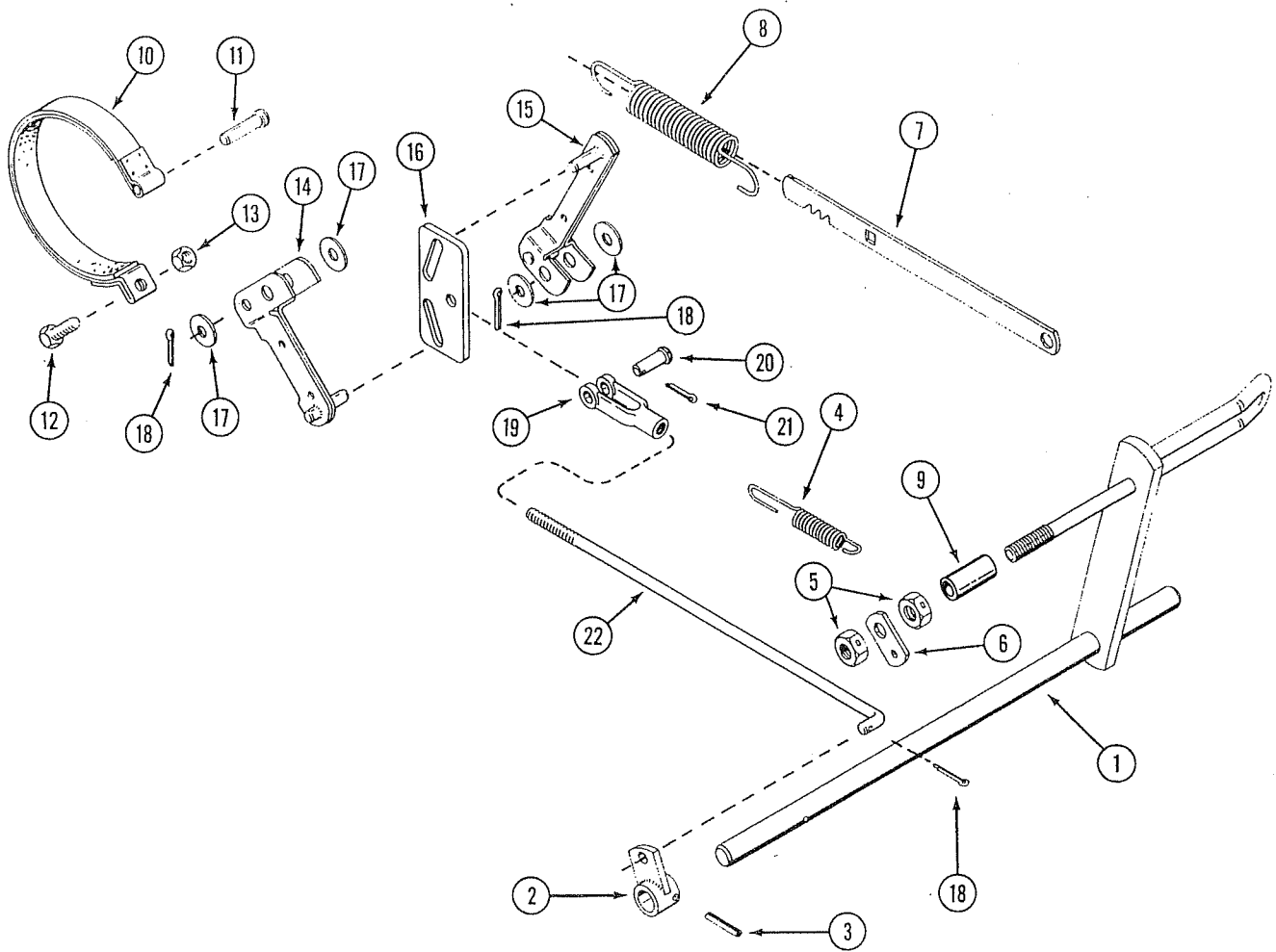
**use S/N and after:

220 - 14005231

222 - 14006712

224 - 14007811

444 - 14009250

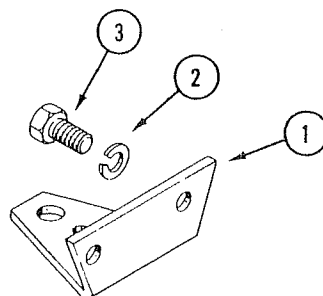
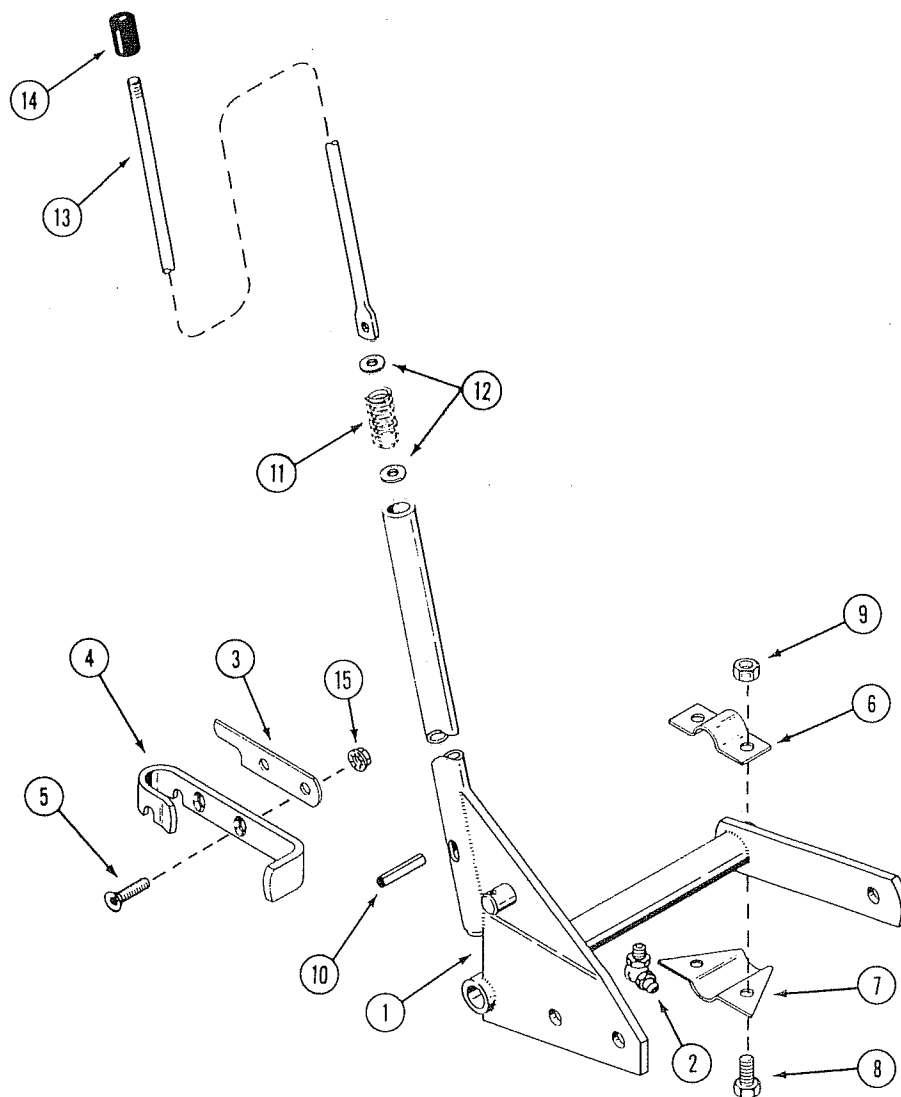


BRAKE ASSEMBLY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 21872	PEDAL - brake actuating	1
2	C 26381	ARM - brake pedal	1
3	138- 2073	PIN - spirol 3/16" x 1-1/4"	1
4	C 25022	SPRING - return	1
5	131- 1308	NUT - centerlock, jam	2
6	C 16164	TAB - lift	1
7	C 18147	LEVER - brake lock	1
8	C 27755	SPRING - brake lock	1
9	C 21857	SPACER - brake pedal	1
10	C 23909	BAND - brake	1
11	C 23910	PIN - clevis	1
12	113- 2262	BOLT - 3/8" - 16 x 1-1/2" hex	1
13	129- 143	NUT - 3/8" - 16 jam	1
14	C 23899	ARM - brake	1
15	C 24761	ARM - brake (includes adjustment nut)	1
16	C 23883	GUIDE - brake actuation	1
17	195- 533	WASHER - .531 I.D.	4
18	132- 310	PIN - cotter 1/8" x 1"	3
19	213- 41	CLEVIS	1
20	141- 54	PIN - clevis	1
21	132- 321	PIN - cotter	1
22	C 24796	ROD - brake (use before 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195)	1
22	C 24795	ROD - brake (444) use before S/N 9766840	1
22	C 25305	ROD - brake (use 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195 and after)	1
22	C 25306	ROD - brake (444) use S/N 9766840 and after	1

FRONT AND REAR WHEELS

				220	
				222	
				224	444
1	C 24435	WHEEL - rear, 5 bolt (white)	2		
2	C 10314	BOLT - rear wheel	10		
3	C 24433	WHEEL - front (white) (includes items 5 and 6)	2		2
4	219- 403	FITTING - lube	2		2
5	C 12110	BEARING - wheel, inner	4		4
7	C 26021	CAP - plastic, front	2		2
8	A 70185	CAP - hub, rear (optional)	2		
9	C 24438	WHEEL - rear, 6 bolt (white)			2
10	A 30064	BOLT - rear wheel			12
11	A 70062	CAP - hub front wheel (optional)	2		2
	C 13106	COVER - lube fitting	2		2



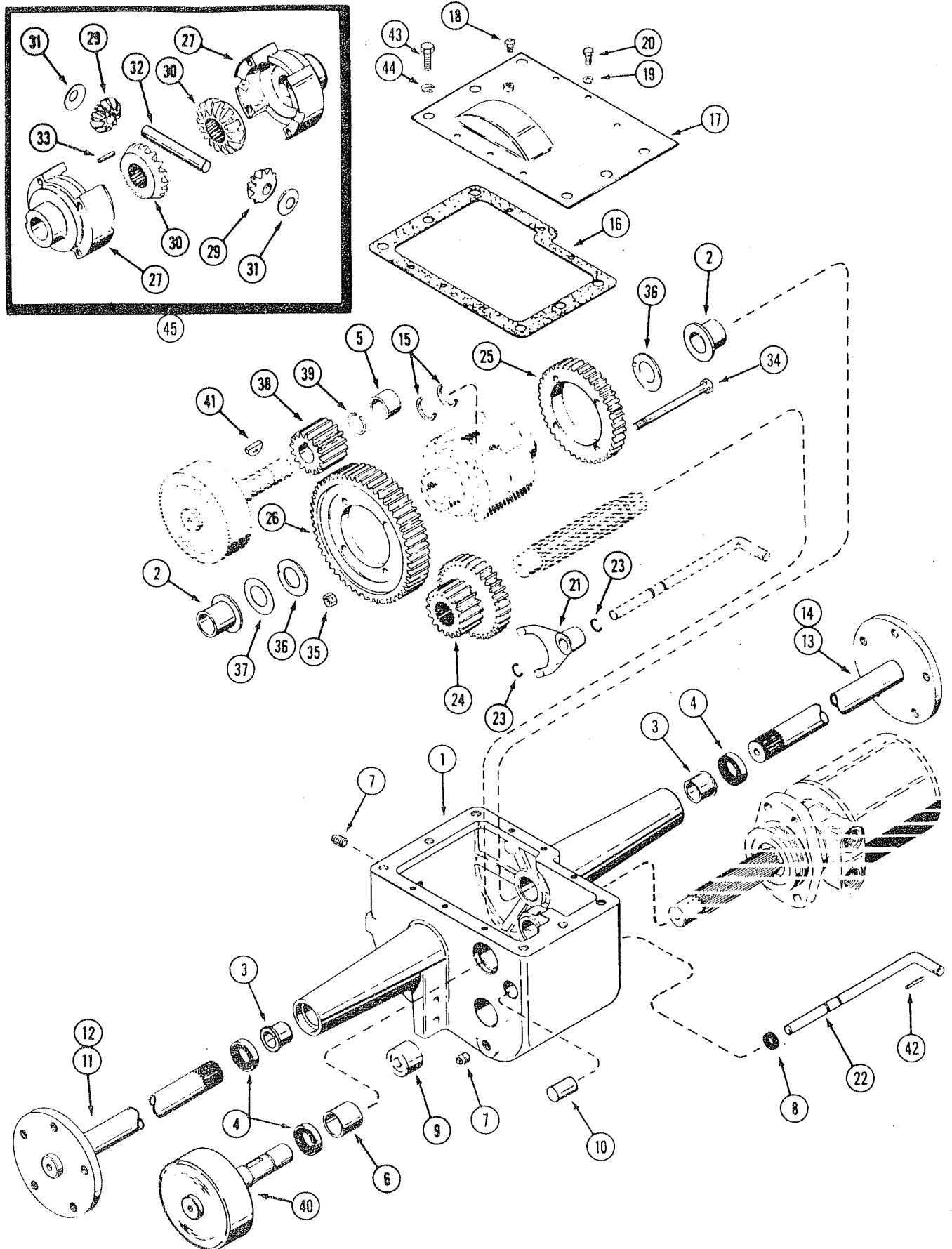
MOUNTING POSITION FOR 220, 222 AND 224 TRACTORS.

IMPLEMENT LIFT

REF.	PART NO.		DESCRIPTION	REQ'D
1	C	18809	LEVER ASSEMBLY - implement lift	1
2	219-	404	FITTING - lube 45°	1
3	C	17281	SPACER - latch	5
4	C	18811	LATCH - lever	1
5	164-	42	SCREW - 5/16 x 1-1/4" flat head socket	2
6	C	17249	BRACKET - mounting top	1
7	C	17250	BRACKET - mounting bottom	1
8	113-	207	BOLT - 3/8 x 1" NC hex	4
9	131-	1181	NUT - lock 3/8"	4
10	138-	2054	PIN - spirol 5/16 x 1-3/4"	1
11	C	15564	SPRING - lift lever	1
12	195-	521	WASHER - 3/8 x 11/16" OD	2
13	C	17067	ROD - lift lever push	1
14	C	14525	BUTTON - release	1
15	131-	911	NUT - lock 5/16 - 18 flanged	2
	C	13106	COVER - lube fitting	1

DRAWBAR AND TOW HITCH

1	C	13360	DRAWBAR	1
2	192-	23	LOCKWASHER - 1/2" zinc plated	2
3	113-	424	BOLT - 1/2 x 1" NC hex zinc plated	2



TRANSMISSION AND FINAL DRIVE

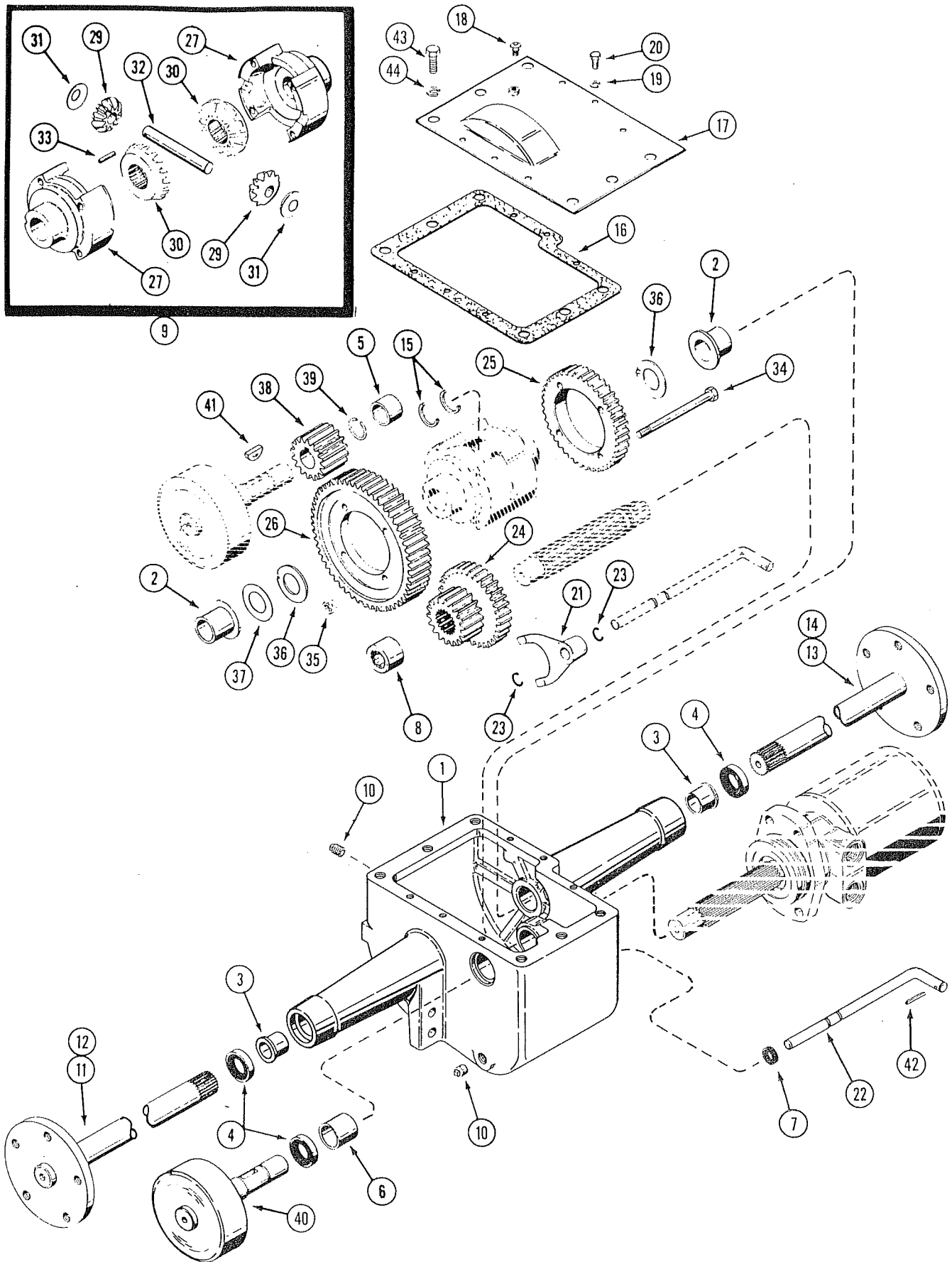
220 - USED PRIOR TO S/N 9748634

222 - USED PRIOR TO S/N 9750308

224 - USED PRIOR TO S/N 9751888

444 - USED PRIOR TO S/N 9753175

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	CASE - transmission (use C24843 and C24802)	1
2	C 12713	BEARING - flange	2
3	C 16744	BEARING - flanged	2
4	D 31945	SEAL - axle	3
5	C 13241	BEARING - sleeve	1
6	C 13385	BEARING - sleeve	1
7	221- 844	PLUG - filler and drain 1/2"	2
8	C 13266	SEAL - shift rod	1
9	C 13211	BEARING - roller, input shaft	1
10	C 12723	CAP - shift rod	1
11	C 16699	SHAFT - axle, short R.H. (220, 222 and 224)	1
12	C 22638	SHAFT - axle, short R.H. (444)	1
13	C 16700	SHAFT - axle, long L.H. (220, 222 and 224)	1
14	C 22637	SHAFT - axle, long L.H. (444)	1
15	B 52144	RING - retainer, axle	2
16	C 13196	GASKET - transmission cover	1
17	C 13197	COVER - transmission	1
18	A 50096	BREATHER - transmission	1
19	192- 19	LOCKWASHER - 1/4"	6
20	113- 1	BOLT - 1/4 x 1/2" NC hex.	6
21	C 12725	FORK - shift	1
22	C 16339	ROD - gear shift	1
23	C 14168	RING - retaining	2
24	C 14644	GEAR - cluster input	1
25	C 12551	GEAR - high 41 tooth	1
26	C 12552	GEAR - low 55 tooth	1
27	NSS	KIT - diff. case (includes Ref. 34 and 35)	1
29	NSS	GEAR - differential pinion	2
30	NSS	GEAR - differential	2
31	NSS	WASHER - pinion thrust	2
32	NSS	PIN - differential cross	1
33	NSS	PIN - differential cross lock	1
34	28- 680	SCREW - 3/8 x 5" NF hex cap	4
35	131- 1133	NUT - lock 3/8" NF hex	4
36	C 12718	WASHER - differential	2
37	C 14223	WASHER - spacer	UAR
38	C 25254	GEAR - brake idler (also use C25258)	1
39	C 14222	RING - retainer, brake idler	1
40	C 25258	BRAKE DRUM - (also use C25254)	1
41	126- 128	KEY - Woodruff, brake idler	1
42	138- 319	PIN - roll 3/16 x 1-1/4"	1
43	113- 424	BOLT - 1/2" - 13 x 1" hex	5
43	166- 86	BOLT - 1/2" - 13 x 1-1/4" flanged	1
44	192- 23	LOCKWASHER - 1/2"	4
45	C 25177	DIFFERENTIAL ASSEMBLY	1



TRANSMISSION AND FINAL DRIVE

220 - USED S/N 9748634 AND AFTER

222 - USED S/N 9750308 AND AFTER

224 - USED S/N 9751888 AND AFTER

444 - USED S/N 9753175 AND AFTER

REF.	PART NO.	DESCRIPTION	REQ'D
	C 24843	CASE ASSEMBLY - transmission	1
1	NSS	CASE - transmission	1
2	C 12713	BEARING - flange	2
3	C 24804	BEARING - flange	2
4	C 24803	SEAL - shaft	3
5	C 13241	BEARING - sleeve	1
6	C 13385	BEARING - sleeve	1
7	C 13266	SEAL - shift rod	1
8	F 7232	BEARING - roller	1
9	C 25177	DIFFERENTIAL ASSEMBLY	1
10	221- 844	PLUG - 1/2" filler and drain	2
10	221- 1843	PLUG - 3/8" filler and drain	3
11	C 16699	SHAFT - axle, short R.H. (220, 222 and 224)	1
12	C 22638	SHAFT - axle, short R.H. (444)	1
13	C 16700	SHAFT - axle, long L.H. (220, 222 and 224)	1
14	C 22637	SHAFT - axle, long L.H. (444)	1
15	B 52144	RING - retainer, axle	2
16	C 13196	GASKET - transmission cover	1
17	C 13197	COVER - transmission	1
18	A 50096	BREATHER - transmission	1
19	192- 19	LOCKWASHER - 1/4" (early production)	6
20	121- 21	BOLT - 1/4 x 1/2" NC lock	6
21	C 12725	FORK - shift	1
22	C 24802	ROD - gear shift	1
23	C 14168	RING - retaining	2
24	C 14644	GEAR - cluster input	1
25	C 12551	GEAR - high 41 tooth	1
26	C 12552	GEAR - low 55 tooth	1
27	NSS	KIT - diff. case (includes Ref. 34 and 35)	1
29	NSS	GEAR - differential pinion	2
30	NSS	GEAR - differential	2
31	NSS	WASHER - pinion thrust	2
32	NSS	PIN - differential cross	1
33	NSS	PIN - differential cross lock	1
34	28- 680	SCREW - 3/8 x 5" NF hex cap	4
35	131- 1133	NUT - lock 3/8" NF hex	4
36	C 12718	WASHER - differential	2
37	C 14223	WASHER - spacer	2
38	C 25254**	GEAR - brake idler	1
39	C 14222	RING - retainer, brake idler	1
40	C 25258*	BRAKE DRUM	1
41	126- 128	KEY - Woodruff, brake idler	1
42	138- 319	PIN - roll 3/16 x 1-1/4"	1
43	113- 424	BOLT - 1/2" - 13 x 1" hex	4
44	192- 23	LOCKWASHER - 1/2"	4

* Also use C25254 gear before S/N:

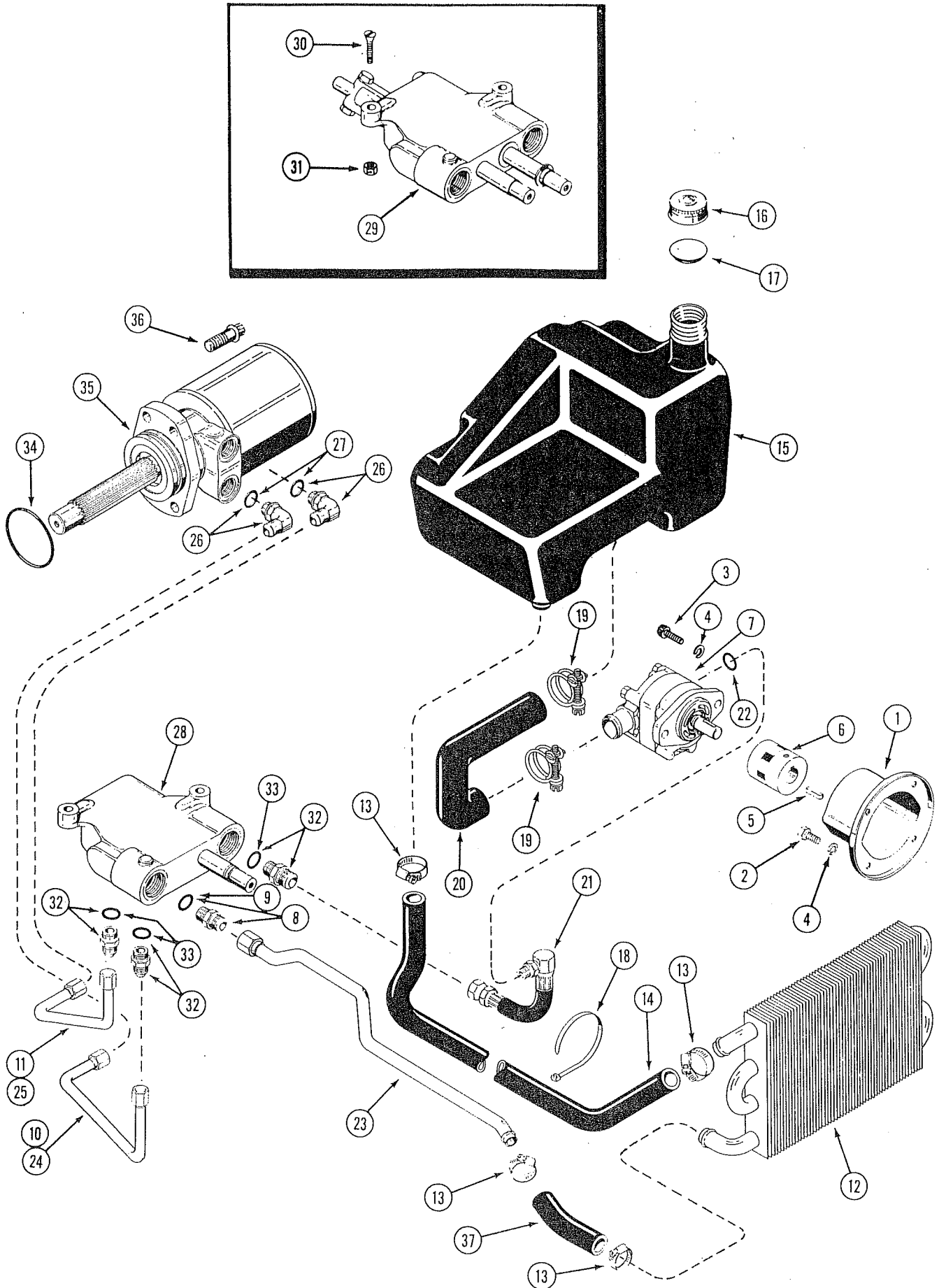
** Also use C25258 drum before S/N:

220 - 9779894

222 - 9781505

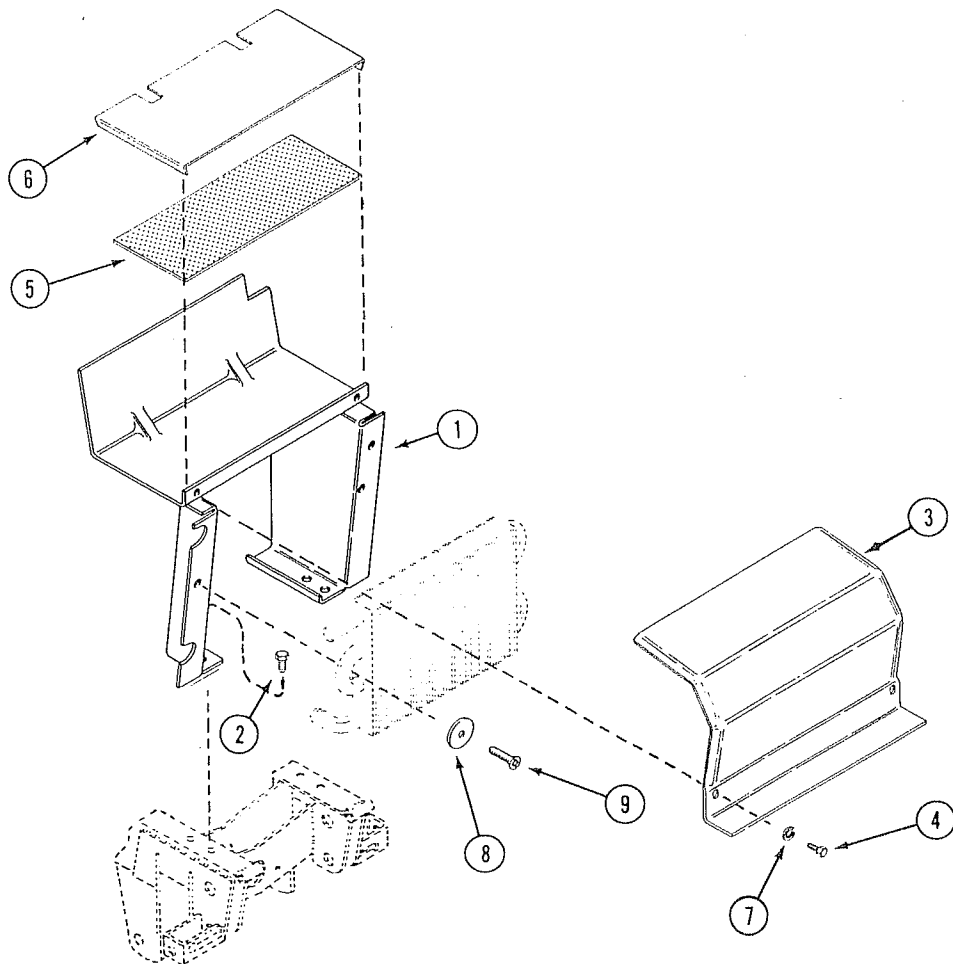
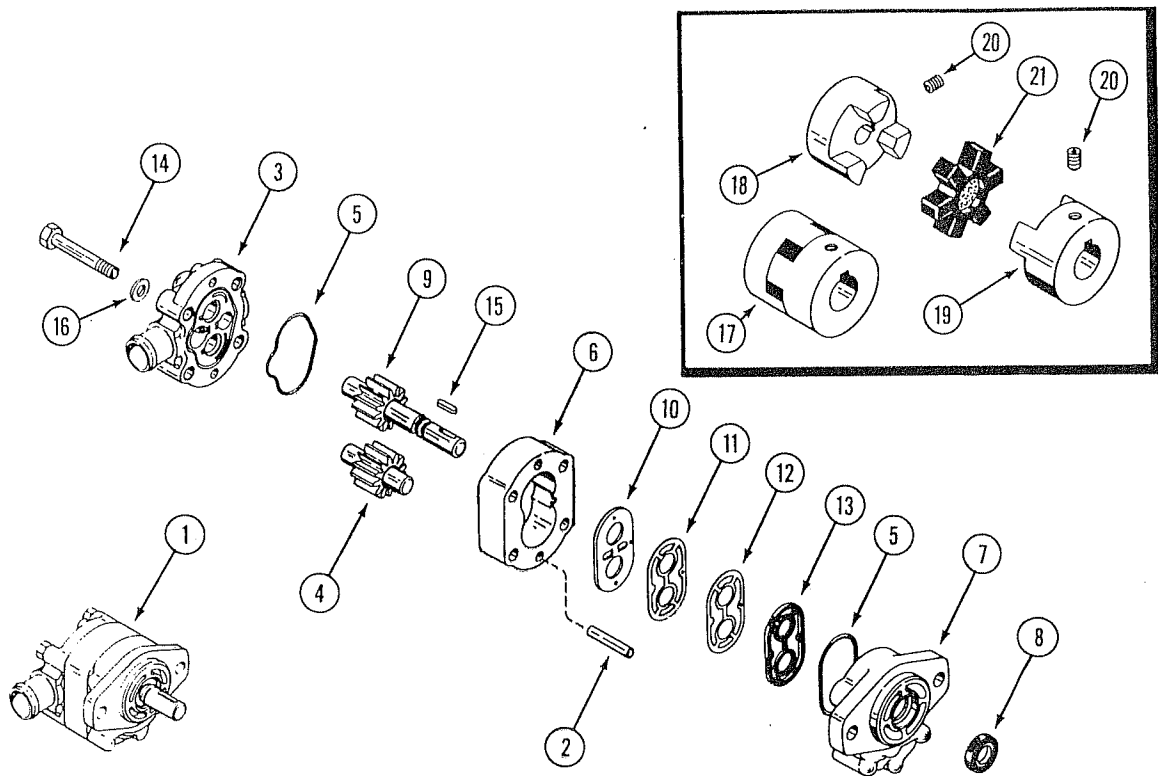
224 - 9783155

444 - 9784545



HYDRAULIC SYSTEM

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 15335	SUPPORT - pump mounting	1
2	113- 206	BOLT - 3/8" x 3/4" NC hex. support mounting	4
3	62- 616	BOLT - 3/8" x 1" NF hex soc. hd., pump mounting	2
4	192- 21	LOCKWASHER - 3/8" zinc plated	6
5	H 26492	KEY - square 1/4" x 3/4" (engine shaft)	1
6	C 25207	COUPLING - pump, 9/16" shaft (220, 222) (See page 55 or 57)	1
6	C 25208	COUPLING - pump, 9/16" shaft (224, 444) (See page 55 or 57)	1
6	C 15726	COUPLING - pump, 1/2" shaft (220, 222) repairs page 57B.	1
6	C 17298	COUPLING - pump, 1/2" shaft (224, 444) repairs page 57B.	1
7	C 26278	PUMP - hydraulic, 1/2" shaft (repairs page 57B)	1
7	NSS	PUMP - hyd. 9/16" shaft (repairs page 55 or 57)	1
8	218- 5065	FITTING - hyd. 3/4" x 7/8" "O" Ring	1
9	218- 5007	"O" RING - 5/8" (for C17263 fitting)	1
10	C 16794	TUBE - valve to lower motor port (220, 222 and 224)	1
11	C 16793	TUBE - valve to upper motor port (220, 222 and 224).	1
12	C 22769	EXCHANGER - heat	1
13	214- 254	CLAMP - hose	4
14	D 55911	HOSE - rubber, tank to heat exchanger.	1
15	C 24818	RESERVOIR - hydraulic oil	1
16	C 25237	CAP - reservoir (includes insert).	1
17	NSS	INSERT - reservoir cap	1
18	L 76746	TIE - hose clamp	2
19	C 23326	CLAMP - hose	2
20	C 24827	HOSE - suction	1
21	C 18797	HOSE - hydraulic, pump to valve.	1
22	218- 5006	"O" RING - 1/2" (for C18797)	1
23	C 26182	TUBE - valve to heat exchanger	1
24	C 16687	TUBE - valve to lower motor port (444) (use before S/N 9766840)	1
24	C 25333	TUBE - valve to lower motor port (444) (use S/N 9766840 and after)	1
25	C 25334	TUBE - valve to upper motor port (444) (use S/N 9766840 and after)	1
25	C 17898	TUBE - valve to upper motor port (444) (use before S/N 9766840)	1
26	218- 5107	FITTING - motor port, 90° elbow, "O" Ring	2
27	218- 5007	"O" RING - 5/8" (for 218-5107 fitting)	2
28	NSS	VALVE - hydraulic control, single spool (220, 222) (repairs page 59)	1
29	NSS	VALVE - hydraulic control, two spool (all models with hydraulic lift) (repairs page 59) (use C27217)	1
30	182- 246	SCREW - 5/16" x 1-1/4" N.C.	2
31	131- 351	NUT - lock 5/16" N.C. hex	2
32	218- 5062	FITTING - hydraulic valve 5/8" x 7/8" "O" Ring	3
33	218- 5007	"O" RING - 5/8"	3
34	A 30095	SEAL - motor to transmission	1
35	C 16697	MOTOR - hydraulic (220, 222 and 224) (repairs page 61)	1
35	C 14655	MOTOR - hydraulic (444) (repairs page 61)	1
36	166- 86	SCREW - 1/2" x 1-1/4" N.C. flanged 12 pt.	4
37	NSS	HOSE - rubber, 4" (use C22902 cut to length)	1



HYDRAULIC PUMP AND COUPLING (PARKER-HANNIFIN)

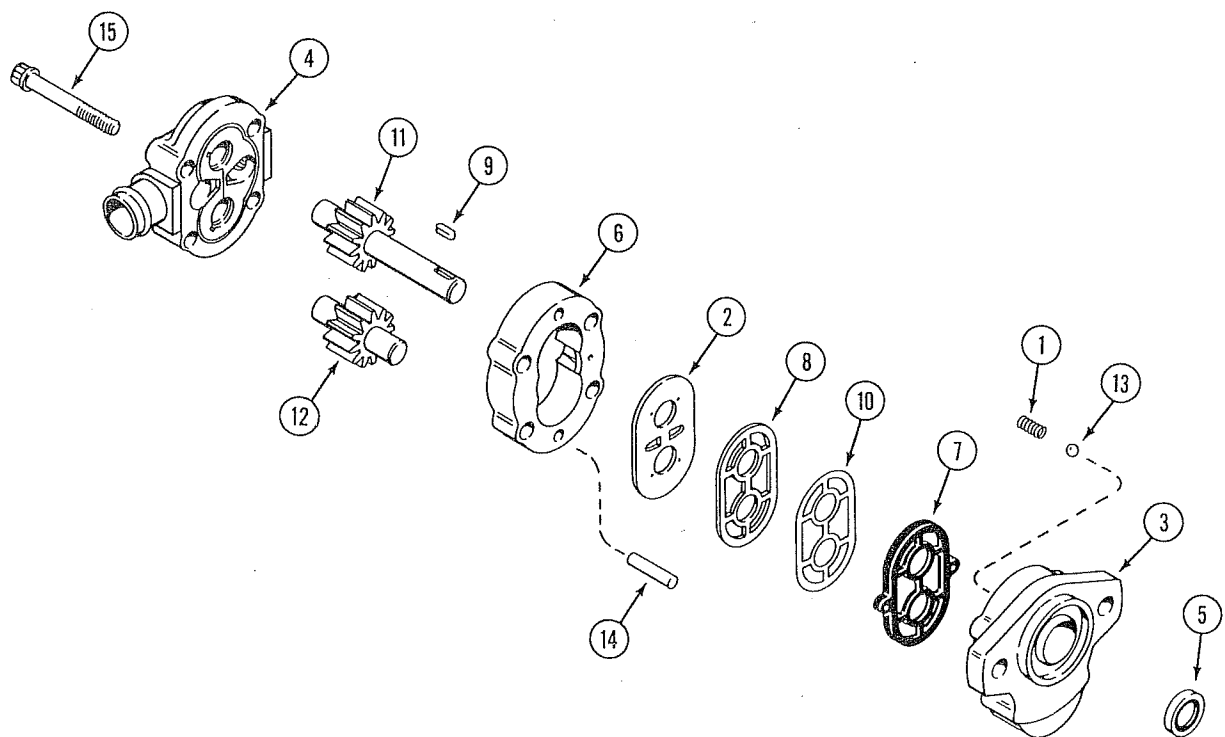
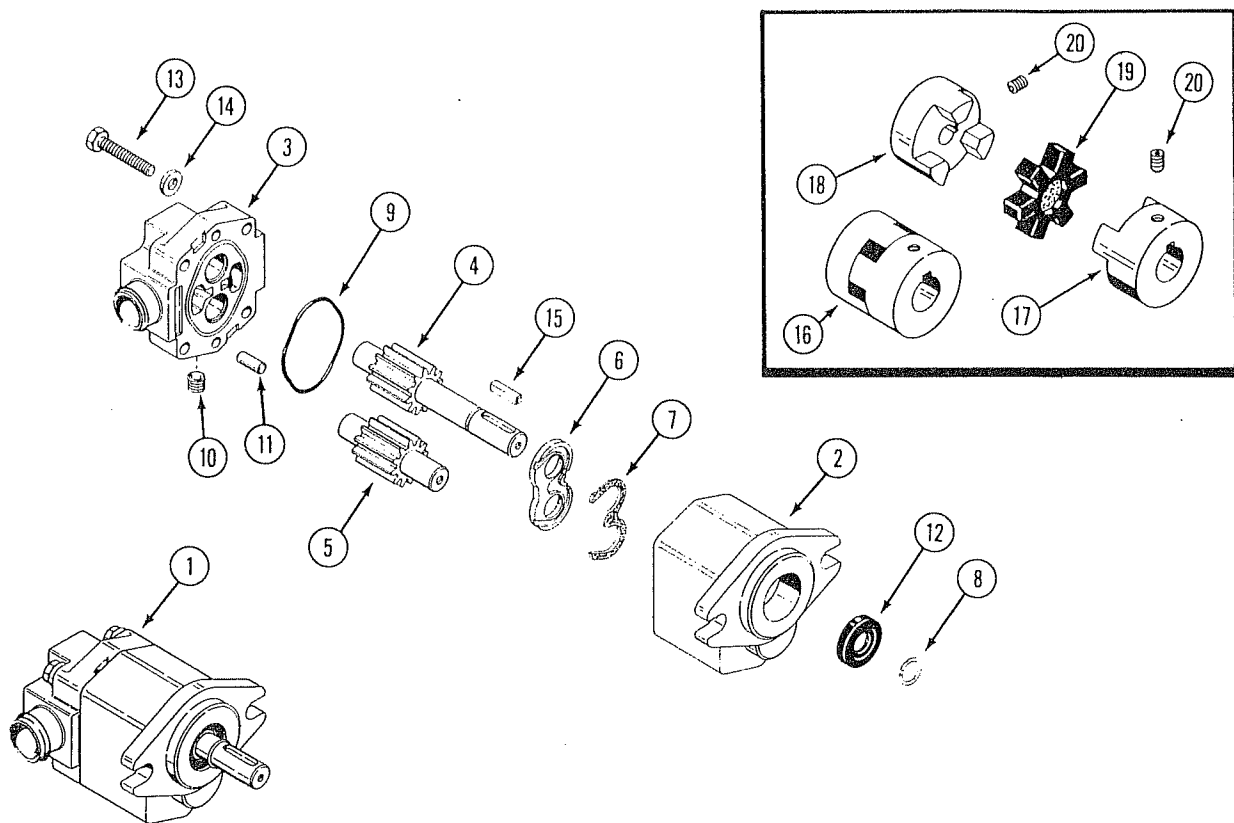
use before S/N: 220 - S/N 14005348 (FOR 220 S/N 9748821 TO 9749036 SEE PAGE 57)
 222 - S/N 14006848 (FOR 222 S/N 9750516 TO 9750723 SEE PAGE 57)
 224 - S/N 14007911
 444 - S/N 14009356

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS*	PUMP - hyd. 9/16" shaft	1
2	F 53109	PIN - dowel	2
3	C 24861	COVER - rear	1
4	C 15731	GEAR ASSEMBLY - driven	1
5	C 15732	"O" RING - cover	2
6	C 15733	BODY - pump	1
7	C 15734	COVER - front	1
8	C 15735	SEAL - shaft	1
9	NSS	GEAR ASSEMBLY - drive (9/16" shaft)	1
	C 24862	SHAFT - drive (9/16" shaft)	1
	C 24863	GEAR - drive (9/16" shaft)	1
	C 24864	KEY - gear (9/16" shaft)	1
	C 24865	RING - retaining (9/16" shaft)	2
10	C 15737	PLATE - wear	1
11	C 15738	SHIELD - heat	1
12	C 15739	GASKET	1
13	C 15740	SEAL	1
14	113- 111	BOLT	4
15	A 21075	KEY - 3/16" square (for 9/16" shaft)	1
16	A 50773	WASHER	4
17	C 25207	COUPLING - pump (220 and 222) (for 9/16" shaft)	1
17	C 25208	COUPLING - pump (224 and 444) (for 9/16" shaft)	1
18	NSS	HUB - (order item 17)	1
19	NSS	HUB - (order item 17)	1
20	83- 55	SCREW - set 5/16" x 5/16" NC socket head	2
21	A 70112	SPIDER - (for C25207 coupling)	1
21	C 15036	SPIDER - (for C25208 coupling)	1

*use C26278 and C17300 on 224 and 444
 use C26278 and C15724 on 220 and 222

HEAT EXCHANGER MOUNTS AND MUFFLER SHIELDS

1	C 22894	SUPPORT - heat exchanger	1
2	113- 118	BOLT - 5/16" x 5/8"	4
3	C 26098	SHIELD - heat, muffler	1
4	113- 1	BOLT - 1/4" x 1/2" hex z.p.	2
5	C 22903	PAD - insulation	1
6	C 22874	RETAINER - insulation	1
7	192- 19	LOCKWASHER - 1/4"	2
8	C 25556	WASHER - heat exchanger bracket	2
9	187- 1252	SCREW - 1/4" x 1-1/2" N.C. flat hd. Phillips	3



HYDRAULIC PUMP AND COUPLING

(BORG-WARNER)

(USED 220 S/N 9748821 TO 9749036)

(USED 222 S/N 9750516 TO 9750723)

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PUMP - hyd. 9/16" shaft (use C26278 and C15724)	1
2	C 20456	BODY - pump	1
3	NSS	COVER ASSEMBLY - pump (use C26278 and C15724)	1
4	C 20460	GEAR - drive, pump	1
5	C 20461	GEAR - driven, pump	1
6	C 20462	PLATE - wear	1
7	C 24070	SEAL - wear plate	1
7	C 24071	SPACER - seal	1
8	A 35690	RING - retaining	1
9	D 58196	SEAL - "O" Ring	1
10	221- 849	PLUG - pipe	1
11	D 58188	PIN - dowel	2
12	C 20464	SEAL - shaft	1
13	113- 5	BOLT - 1/4" x 1-1/2" NC hex, grade 5	4
14	D 58189	WASHER - 1/4"	4
15	C 20455	KEY - square 3/16" x 13/16"	1
16	C 25207	COUPLING - 220, 222	1
17	NSS	HUB - coupling (order item 16)	1
18	NSS	HUB - coupling (order item 16)	1
19	A 70112	SPIDER - coupling	1
20	83- 55	SETSCREW - 5/16" x 5/16" N.C. soc. hd.	2

HYDRAULIC PUMP (CESSNA)

use before S/N: 220 - S/N 14005348

222 - S/N 14006848

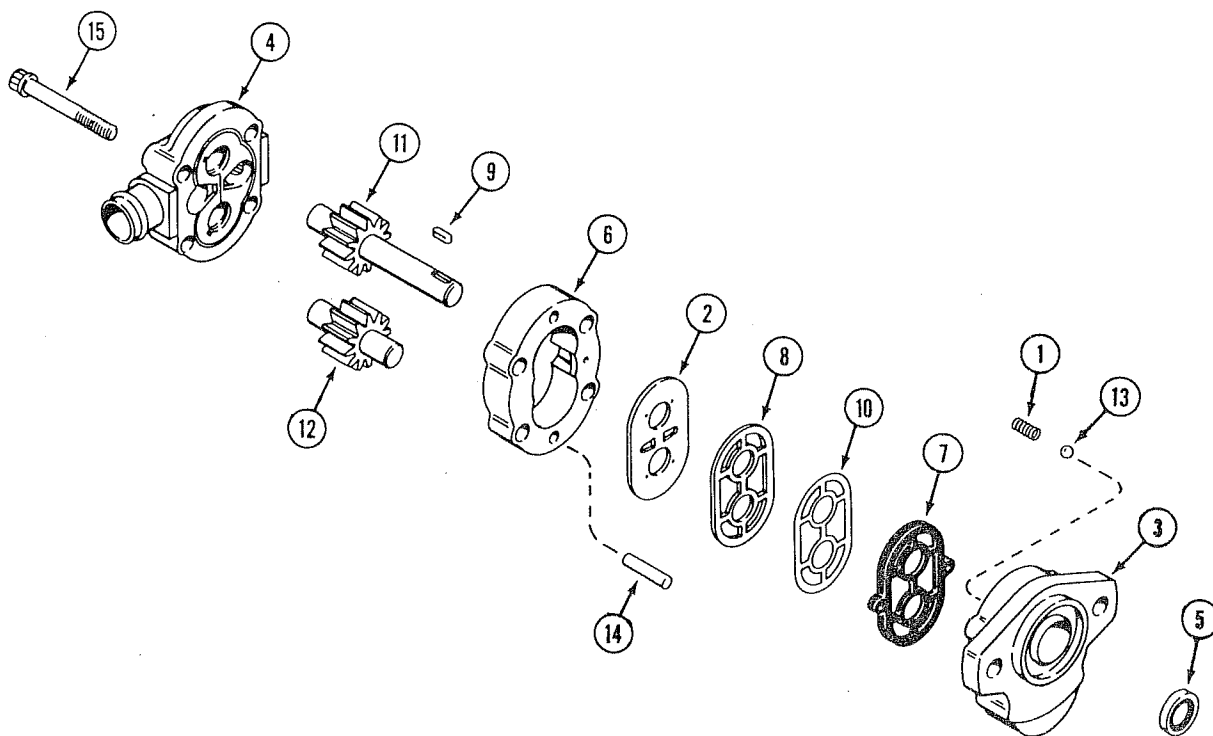
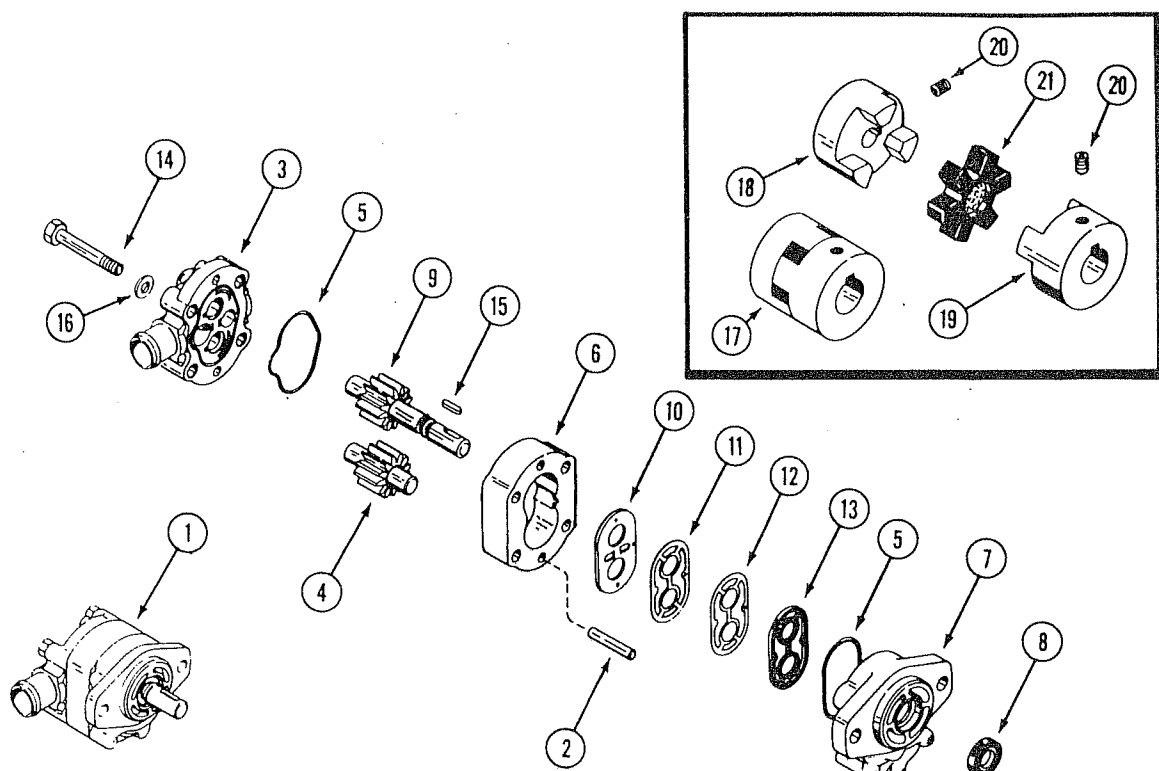
224 - S/N 14007911

444 - S/N 14009356

REF.	PART NO.	DESCRIPTION	REQ'D
	NSS*	PUMP - hyd. (9/16")	1
1	F 9883	SPRING	2
2	H 89524	DIAPHRAGM - wear plate	1
3	NSS*	COVER - front	1
4	NSS*	COVER - rear	1
5	H 89540	SEAL - shaft	1
6	NSS*	BODY - pump	1
7	H 218347	SEAL - diaphragm	1
8	H 218362	GASKET - back up	1
9	A 21075	KEY - 3/16" square x .609	1
10	H 218354	GASKET - protector	1
11	NSS*	GEAR ASSEMBLY - drive	1
12	NSS*	GEAR ASSEMBLY - driven	1
13	211- 306	BALL - steel 7/32"	2
14	H 755413	PIN - dowel 1/4" x 1-1/4"	2
15	166- 32	BOLT - 5/16" - 18 x 2-1/2" 12 pt. flange	4

*use C26278 and C15724 on 220 and 222

use C26278 and C17300 on 224 and 444



HYDRAULIC PUMP AND COUPLING (PARKER-HANNIFIN)

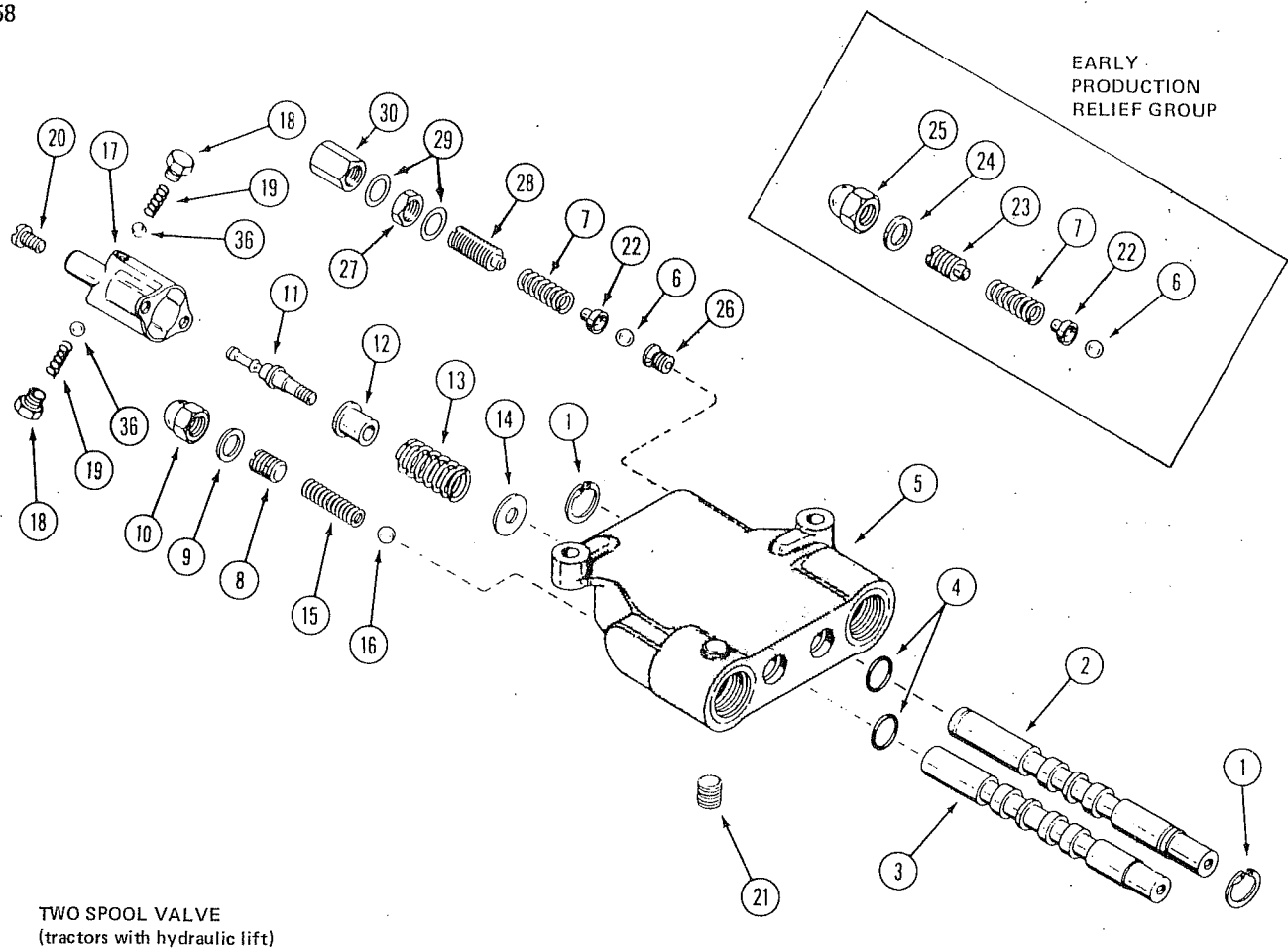
use: 220-S/N 14005348 and after
 222-S/N 14006848 and after
 224-S/N 14007911 and after
 244-S/N 14009356 and after

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26278	PUMP - hydraulic 1/2" shaft	1
2	F 53109	PIN - dowel	2
3	C 24861	COVER - rear	1
4	C 15731	GEAR ASSEMBLY - driven	1
5	C 15732	"O" RING - cover	2
6	C 15733	BODY - pump	1
7	C 15734	COVER - front	1
8	C 15735	SEAL - shaft	1
9	NSS	GEAR ASSEMBLY - drive (1/2" shaft) (use C26278)	1
10	C 15737	PLATE - wear	1
11	C 15738	SHIELD - heat	1
12	C 15739	GASKET	1
13	C 15740	SEAL	1
14	113- 111	BOLT	4
15	C 19207	KEY - 1/8" square x 3/4" long	1
16	A 50773	WASHER	4
17	C 17298	COUPLING - pump (224, 444)	1
17	C 15724	COUPLING - pump (220, 222)	1
18	C 15724	HUB - pump drive (220, 222)	1
18	C 17300	HUB - pump drive (224, 444)	1
19	NSS	HUB - (order item 17)	1
20	83- 55	SCREW - set 5/16" x 5/16" NC socket head	2
21	C 15036	SPIDER - (224, 444)	1
21	A 70112	SPIDER - (220, 222)	1

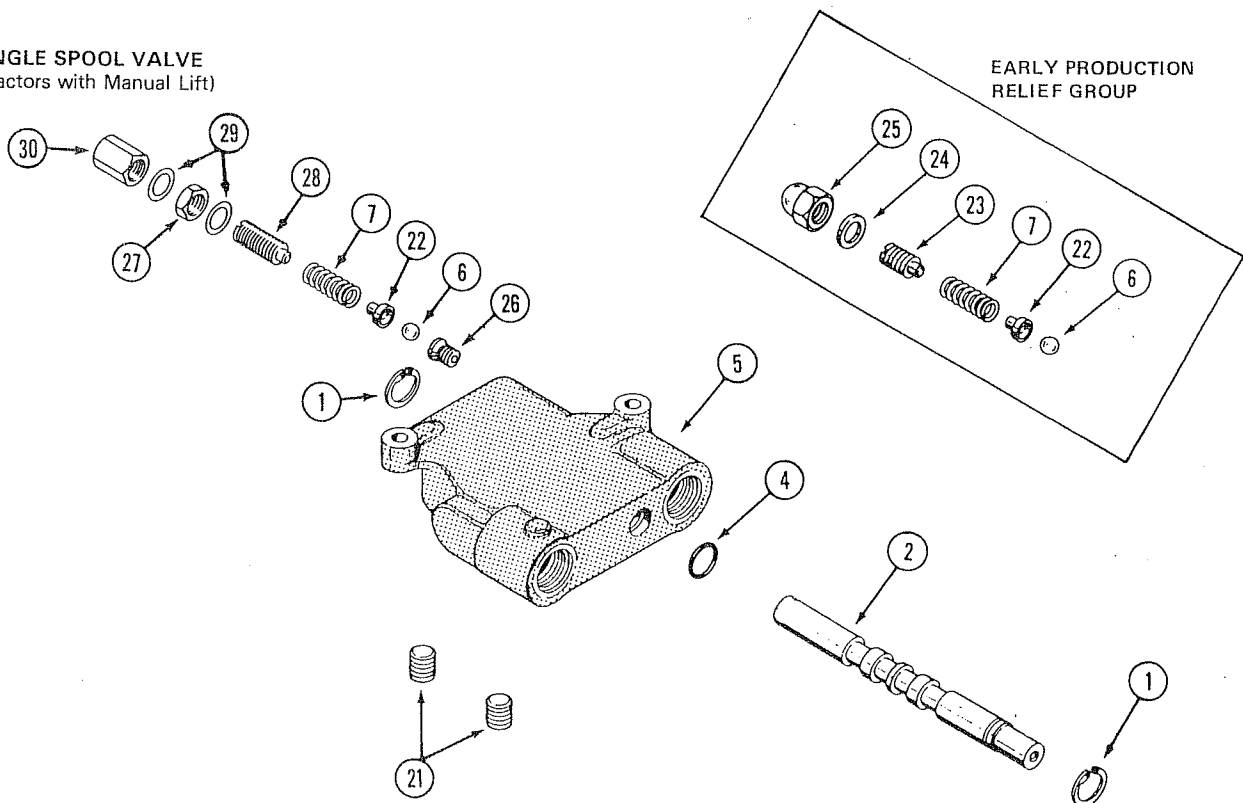
HYDRAULIC PUMP (CESSNA)

use: 220-S/N 14005348 and after
 222-S/N 14006848 and after
 224-S/N 14007911 and after
 244-S/N 14009356 and after

REF.	PART NO.	DESCRIPTION	REQ'D
	NSS	PUMP - hyd. 1/2" shaft (use C26278)	1
1	F 9883	SPRING	2
2	H 89524	DIAPHRAGM - wear plate	1
3	NSS	COVER - front (use C26278)	1
4	NSS	COVER - rear (use C26278)	1
5	H 89540	SEAL - shaft	1
6	NSS	BODY - pump (use C26278)	1
7	H 218347	SEAL - diaphragm	1
8	H 218362	GASKET - back up	1
9	C 19207	KEY - 1/2" square x 3/4" long	1
10	H 218354	GASKET - protector	1
11	NSS	GEAR ASSEMBLY - drive (use C26278)	1
12	NSS	GEAR ASSEMBLY - driven (use C26278)	1
13	211- 306	BALL - steel 7/32"	2
14	H 755413	PIN - dowel 1/4" x 1-1/4"	2
15	166- 32	BOLT - 5/16" - 18 x 2-1/2" 12 point flange	4



SINGLE SPOOL VALVE
(Tractors with Manual Lift)



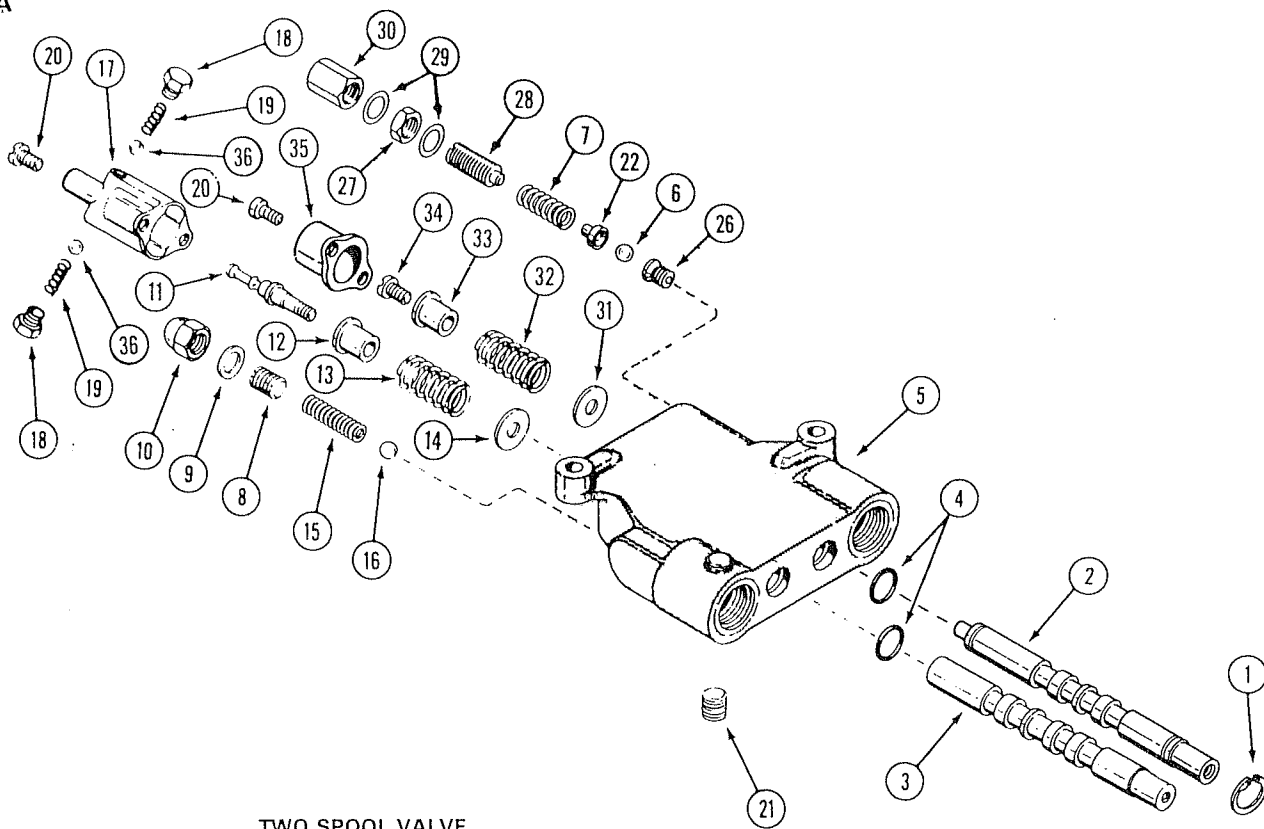
HYDRAULIC CONTROL VALVE

use before S/N: 220 - 9780390
 222 - 9782106
 224 - 9783598
 444 - 9785020

REF.	PART NO.	DESCRIPTION	REQ'D
	NSS	VALVE - control, single spool (use C27271 and 2 (218-5154)	1
	NSS	VALVE - control, two spool (use C27217)*	1
1	A 60273	RING - retaining	1
2	NSS	SPOOL - motor (order C27217)*	1
3	NSS	SPOOL - lift (order C27217)*	1
4	A 7982	SEAL - spool	4
5	NSS	BODY - valve (order C27217)*	1
6	211- 9	BALL - steel 5/16" (7.94 mm)	1
7	C 21507	SPRING - relief	2
8	C 17433	SCREW - relief adjust	1
9	C 17435	GASKET - relief adjust cap	1
10	129- 531	CAP - adjust screw	2
11	C 26668	DETENT - spool	1
12	D 86559	SPACER - detent	1
13	D 86558	SPRING - detent return	1
14	D 86557	WASHER - return	1
15	C 21505	SPRING - relief	1
16	211- 7	BALL - steel 1/4" (6.35 mm)	3
17	C 17438	COVER - detent	1
18	D 86560	SCREW - detent	2
19	C 17444	SPRING - detent	2
20	169- 114	SCREW - cover	4
21	221- 841	PLUG - pipe	1
22	C 21506	RETAINER - ball seat	1
23	C 21509	SCREW - adjust, relief	1
24	C 21508	GASKET - adjust cap	1
25	C 21510	CAP - adjust screw	1
26	C 26663	SEAT - relief ball	1
27	129- 166	NUT - lock	1
28	C 26665	SCREW - adjust, relief	1
29	C 26664	GASKET - adjust cap	2
30	C 26666	CAP - adjust screw	1
	C 21504	KIT - relief (includes items 6, 7, 22, 23, 24 and 25)	1
	C 21511	KIT - relief (includes items 8, 9, 10, 15 and 16)	1
	C 18851	KIT - detent (includes items 11, 12, 13, 14, 16, 17, 18, 19 and 20)	1

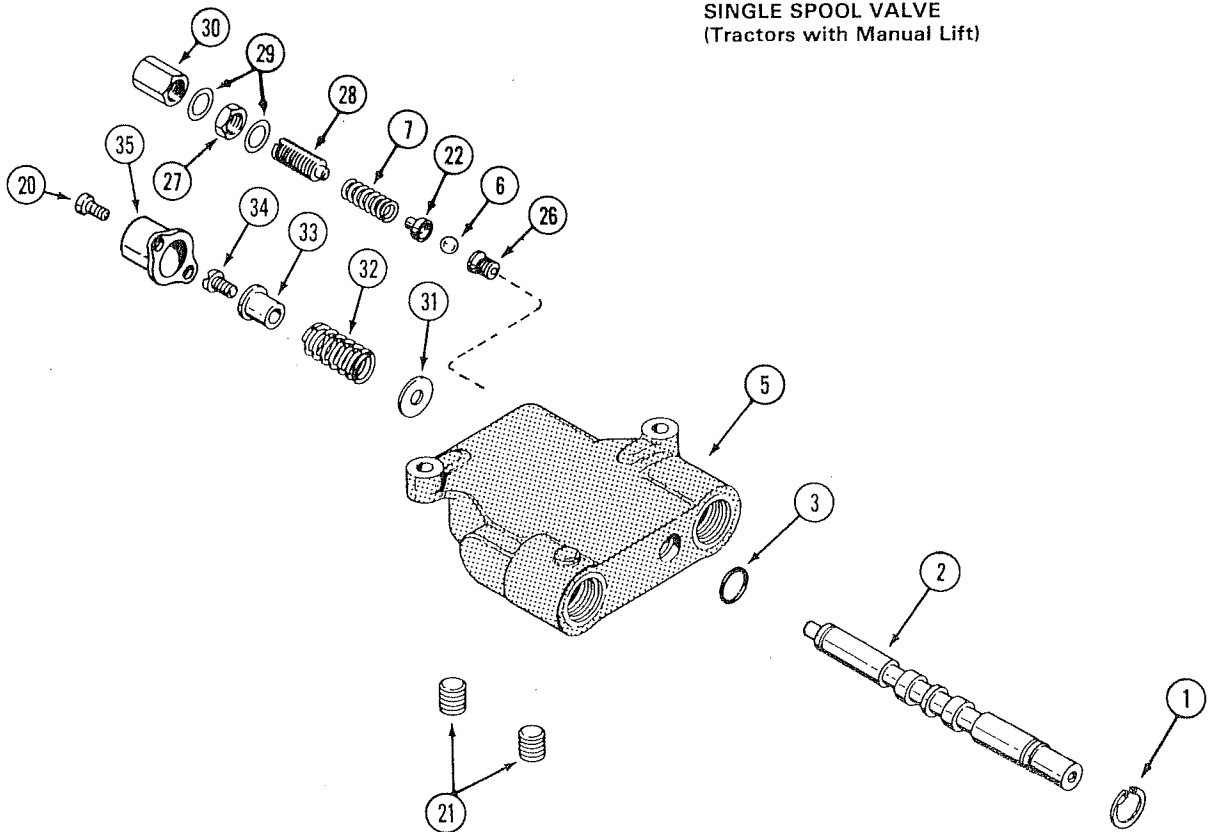
*also use (2) 218-5154 when replacing single spool valve

59A



TWO SPOOL VALVE
(Tractors with Hydraulic Lift)

SINGLE SPOOL VALVE
(Tractors with Manual Lift)



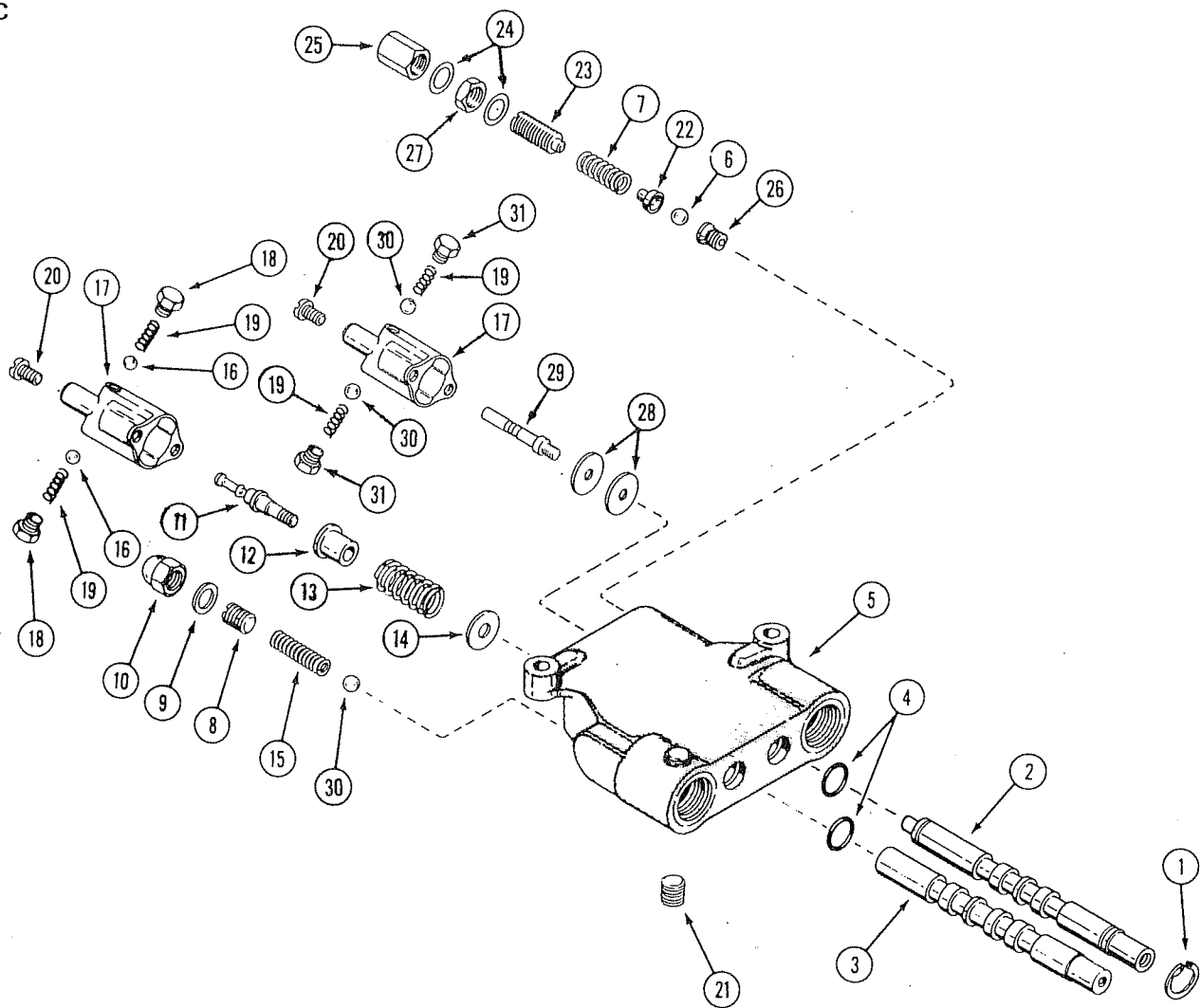
HYDRAULIC CONTROL VALVE

use S/N and after: 220 - S/N 9780390
 222 - S/N 9782106
 224 - S/N 9783598
 444 - S/N 9785020

REF.	PART NO.	DESCRIPTION	REQ'D
	NSS	VALVE - control, single spool (use C27271 and (2) 218-5154)	1
	NSS	VALVE - control, two spool (use C27217)*	1
1	A 60273	RING - retaining	1
2	NSS	SPOOL - motor (order C27217)*	1
3	NSS	SPOOL - lift (order C27217)*	1
4	A 7982	SEAL - spool	4
5	NSS	BODY - valve (order C27217)*	1
6	211- 9	BALL - steel 5/16" (7.94 mm)	1
7	C 21507	SPRING - relief	2
8	C 17433	SCREW - relief adjust	1
9	C 17435	GASKET - relief adjust cap	1
10	129- 531	CAP - adjust screw	2
11	C 26668	DETENT - spool	1
12	D 86559	SPACER - detent	1
13	D 86558	SPRING - detent return	1
14	D 86557	WASHER - return	1
15	C 21505	SPRING - relief	1
16	211- 7	BALL - steel 1/4" (6.35 mm)	3
17	C 17438	COVER - detent	1
18	D 86560	SCREW - detent	2
19	C 17444	SPRING - detent	2
20	169- 114	SCREW - cover	4
21	221- 841	PLUG - pipe	1
22	C 21506	RETAINER - ball seat	1
26	C 26663	SEAT - relief ball	1
27	129- 166	NUT - lock	1
28	C 26665	SCREW - adjust, relief	1
29	C 26664	GASKET - adjust cap	2
30	C 26666	CAP - adjust screw	1
31	195- 521	WASHER - return, travel	1
32	C 26382	SPRING - return, travel	1
33	C 26667	SPACER - return, travel	1
34	193- 524	SCREW - return spacer, travel	1
35	C 18847	COVER - return, travel	1
36	211- 5	BALL - steel 3/16"	2
	C 21504	KIT - relief (includes items 6, 7, 22, 23, 24 and 25)	1
	C 21511	KIT - relief (includes items 8, 9, 10, 15 and 16)	1
	C 18851	KIT - detent (includes items 11, 12, 13, 14, 16, 17, 18, 19 and 20)	1

*also use (2) 218-5154 when replacing single spool valve

NOTE: C27271 Travel control detent kit is available to change this valve over to the current travel detent style. See page 59D.



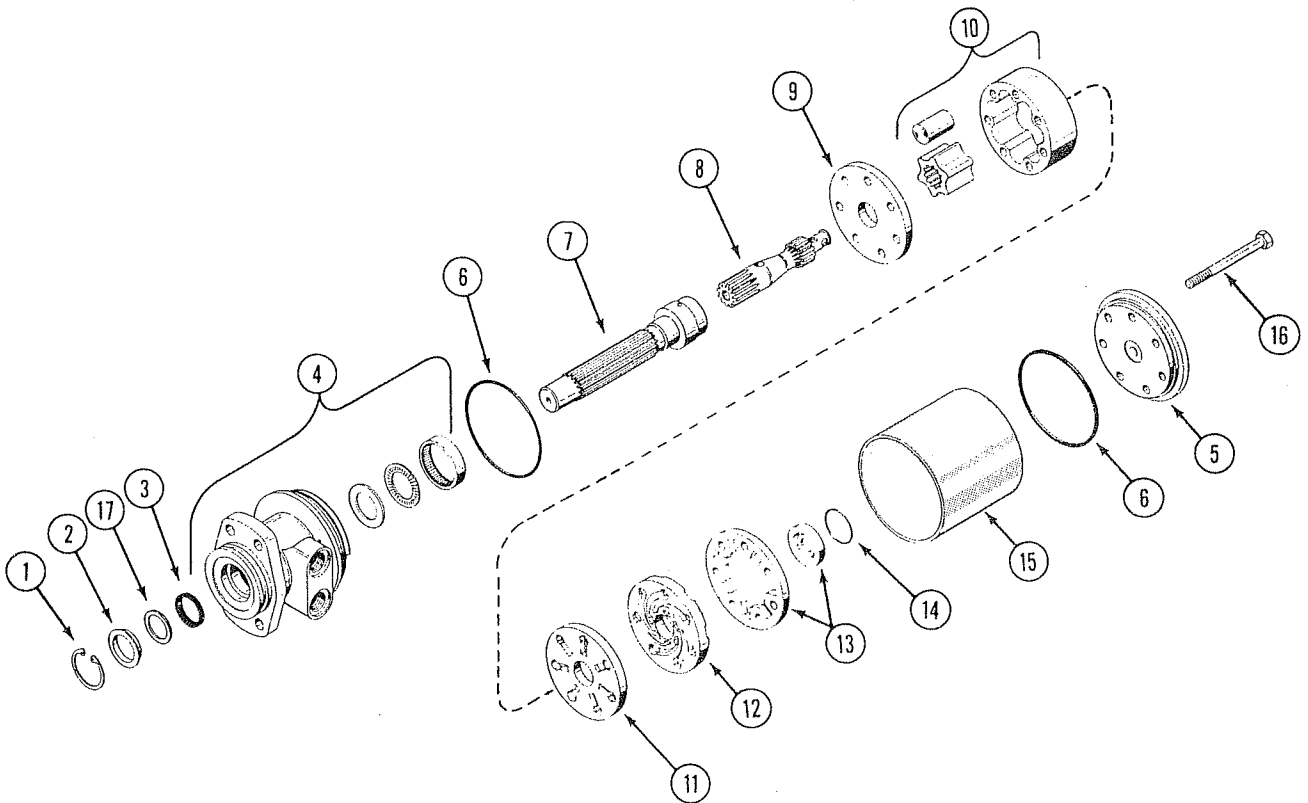
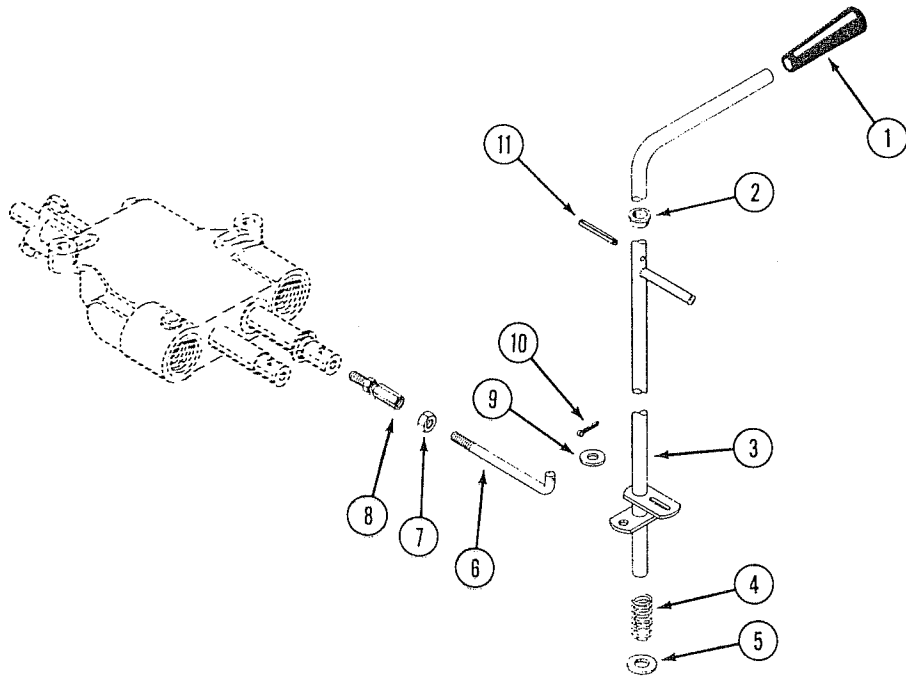
HYDRAULIC CONTROL VALVE

(Service Valve)

REF.	PART NO.	DESCRIPTION	REQ'D
	C 27217	VALVE - control, two spool	1
1	A 60273	RING - retaining	2
2	NSS	SPOOL - motor (order C27217)	1
3	NSS	SPOOL - lift (order C27217)	1
4	A 7982	SEAL - spool	4
5	NSS	BODY - valve (order C27217)	1
6	211- 9	BALL - steel 5/16" (7.94 mm)	1
7	C 21507	SPRING - relief	2
8	C 17433	SCREW - relief adjust	1
9	C 17435	GASKET - relief adjust cap	1
10	129- 531	CAP - adjust screw	2
11	C 26668	DETENT - spool	1
12	D 86559	SPACER - detent	1
13	D 86558	SPRING - detent return	1
14	D 86557	WASHER - return	1
15	C 21505	SPRING - relief	1
16	211- 5	BALL - steel 3/16" (4.76 mm)	3
17	C 17438	COVER - detent	1
18	D 86560	SCREW - detent	2
19	C 17444	SPRING - detent	2
20	169- 114	SCREW - cover	4
21	221- 841	PLUG - pipe	1
22	C 21506	RETAINER - ball seat	1
23	C 26665	SCREW - adjust, relief	1
24	C 26664	GASKET - adjust cap	1
25	C 26666	CAP - adjust screw	1
26	C 26663	SEAT - relief ball	1
27	129- 166	NUT - lock	1
28	195- 521	WASHER	2
29	C 27219	DETENT - spool	1
30	211- 7	BALL - steel 1/4" (6.35 mm)	2
31	C 17443	SCREW - detent	2

C27271 TRAVEL CONTROL DETENT KIT

17	C 17438	COVER - detent	1
19	C 17444	SPRING - detent	2
20	169- 114	SCREW - cover	2
28	195- 521	WASHER - detent	2
29	C 27219	DETENT - spool	1
30	211- 7	BALL - steel 1/4" (6.35 mm)	2
31	C 17443	SCREW - detent	2
	C 27215	SWITCH - neutral start	1

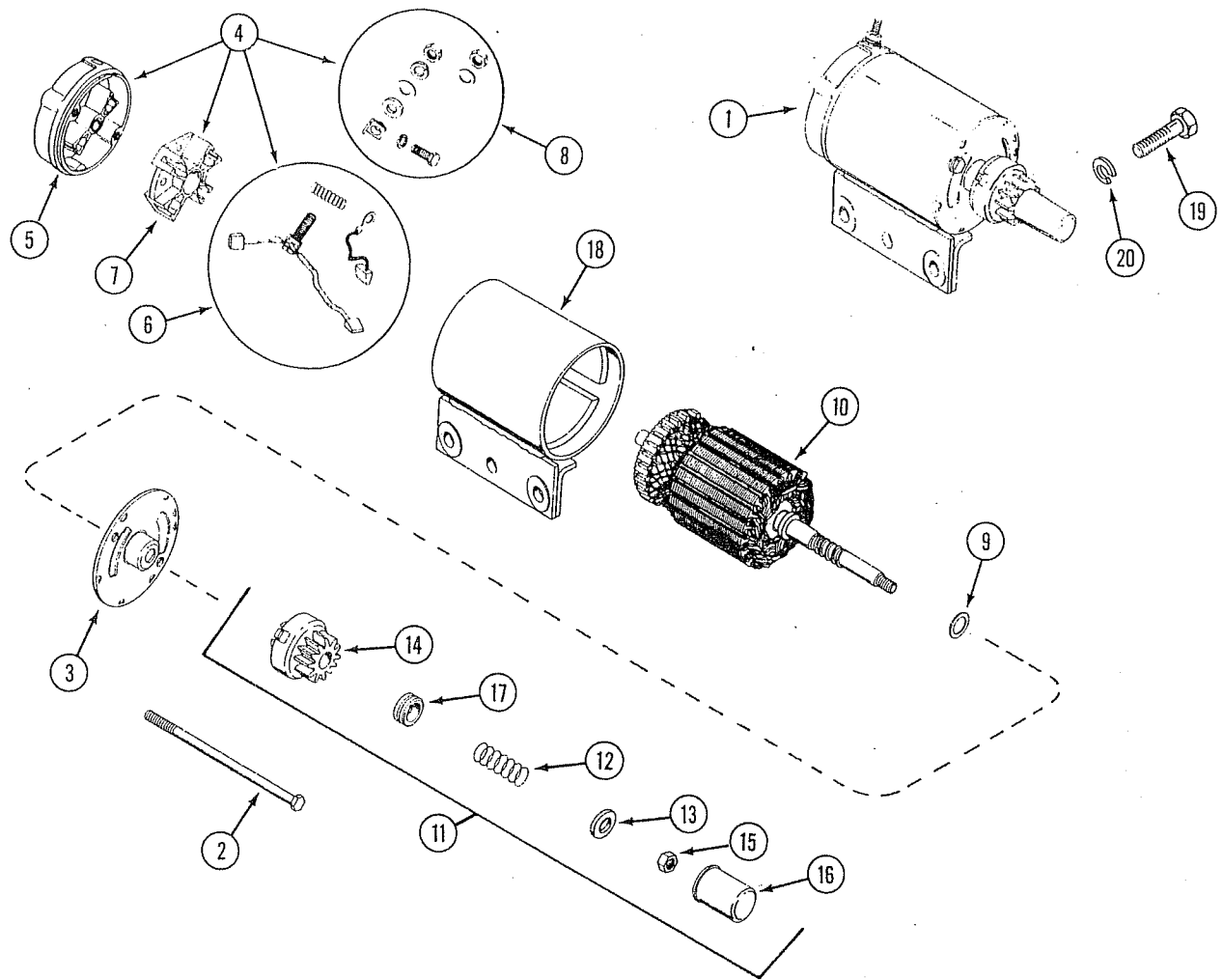


SPEED CONTROL

REF.	PART NO.	DESCRIPTION	REQ'D
1	A 37247	KNOB - speed control	1
2	C 12093	BUSHING - lever	1
3	NSS	LEVER - speed control (use C27213 and C27215)	1
4	C 25595	SPRING - compression	1
5	C 21518	WASHER - nylon	1
6	C 18742	ROD - control	1
7	129- 122	NUT - 5/16" NF hex, zinc plated	1
8	C 19025	JOINT - ball	1
9	195- 521	WASHER - 5/16"	1
10	132- 26	PIN - cotter 3/32" x 3/4"	1
11	138- 2072	PIN - roll 1/8" x 1-3/4"	1

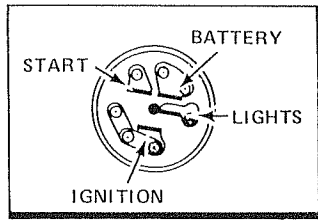
HYDRAULIC DRIVE MOTOR

	C 16697	MOTOR - hydraulic, 220, 222 and 224	1
	C 14655	MOTOR - hydraulic, 444	1
1	C 16516	RING - retaining	1
2	C 19040	SPACER -	1
3	C 25048	SEAL - oil	1
4	C 14827	HOUSING ASSEMBLY	1
5	C 14837	END CAP	1
6	C 18382	SEAL -	2
7	C 14828	SHAFT - coupling	1
8	D 72853	DRIVE LINK - 220, 222 and 224	1
8	C 14829	DRIVE LINK - 444	1
9	C 14830	PLATE - wear	1
10	C 18110	ROTOR ASSEMBLY - 220, 222 and 224	1
10	C 14831	ROTOR ASSEMBLY - 444	1
	NSS	KIT - manifold (also use item 8 before code 86-75)	1
11	D 71234	PLATE - manifold	1
12	D 71235	MANIFOLD	1
13	D 60857	COMMUTATOR AND RING SET	1
14	C 19041	RING - sealing	1
15	C 18092	SLEEVE - 220, 222 and 224	1
15	C 14836	SLEEVE - 444	1
16	28- 662	BOLT - 3/8" x 3-7/8" NF hex, 220, 222 and 224	7
16	C 14838	BOLT - 3/8" x 4-3/8" NF hex, 444	7
17	C 19212	WASHER - back up, .010"	1

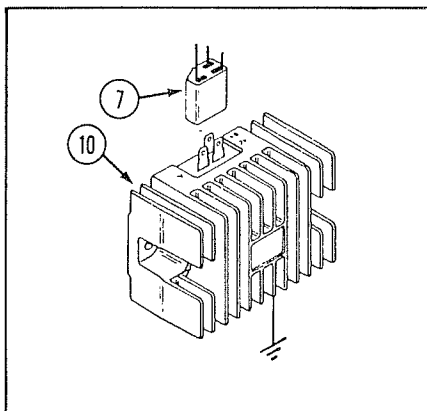
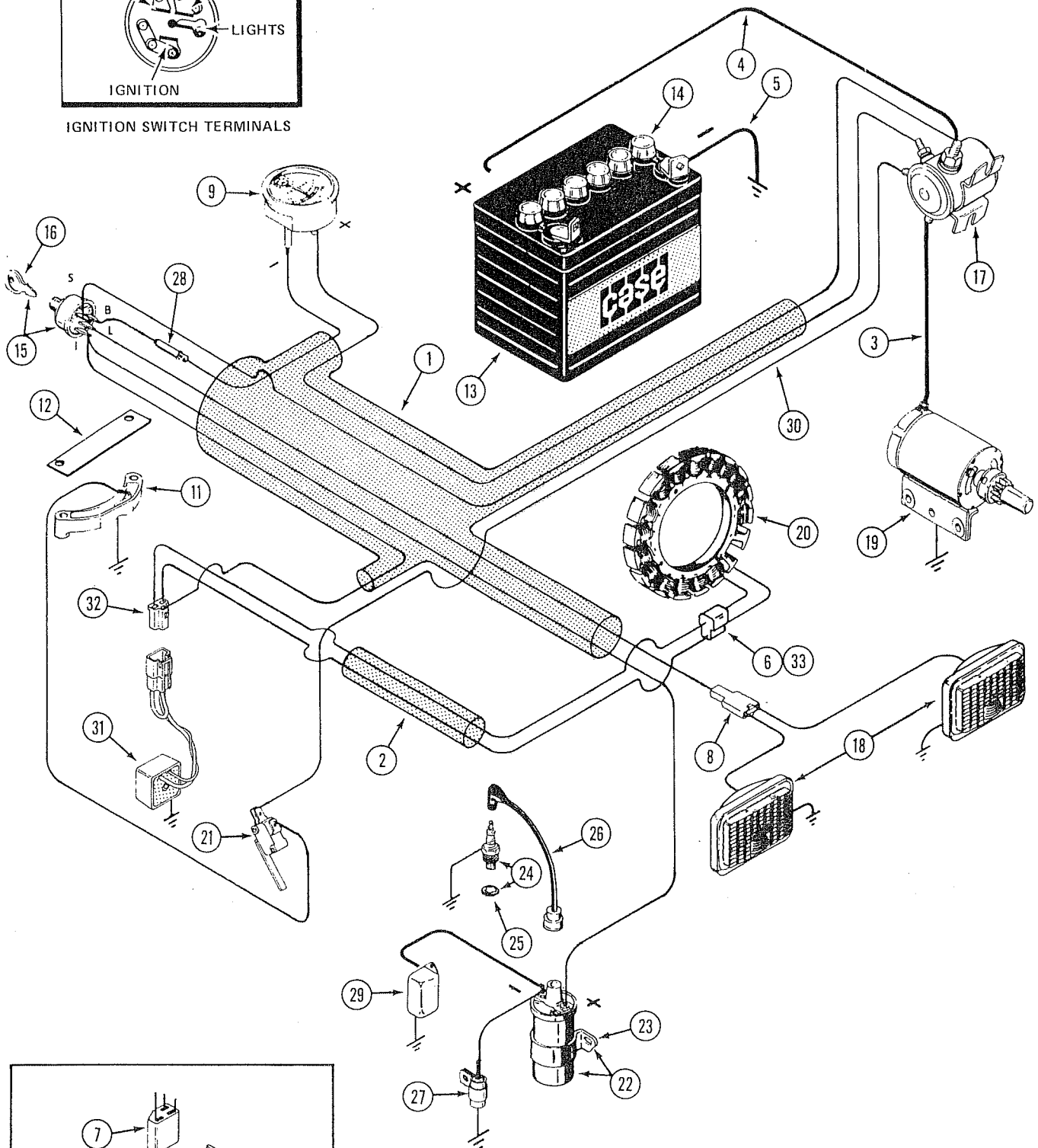


STARTER

REF.	PART NO.		DESCRIPTION	REQ'D
1	C	24889	STARTER ASSEMBLY	1
2	V	34381	BOLT - thru	2
3	V	34392	CAP - end	1
4	V	34384	KIT - commutator cap	1
5	NSS		CAP - commutator	1
6	V	34383	KIT - brush and spring	1
7	NSS		KIT - brush holder	1
8	NSS		KIT - hardware	1
9	V	34382	WASHER - armature thrust	1
10	C	24890	ARMATURE	1
11	C	24891	KIT - drive	1
12	V	34386	SPRING - anti-drift	1
13	V	34387	SPACER - gear stop	1
14	NSS		GEAR - drive	1
15	V	34388	NUT - gear stop	1
16	C	24892	COVER - dust	1
17	V	34391	SPACER - dust cover	1
18	NSS		BODY - starter	1
19	C	24886	BOLT - shoulder 3/8" - 20 x 1-5/16"	2
20	192-	21	LOCKWASHER - 3/8"	2
	321-	1834	DECAL - alternator electrical system	1
	C	24880	DECAL - "DO NOT STRIKE"	1



IGNITION SWITCH TERMINALS



ELECTRICAL SYSTEM

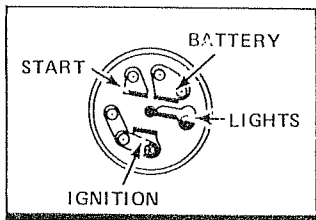
220 - use before S/N 9779977

222 - use before S/N 9781649

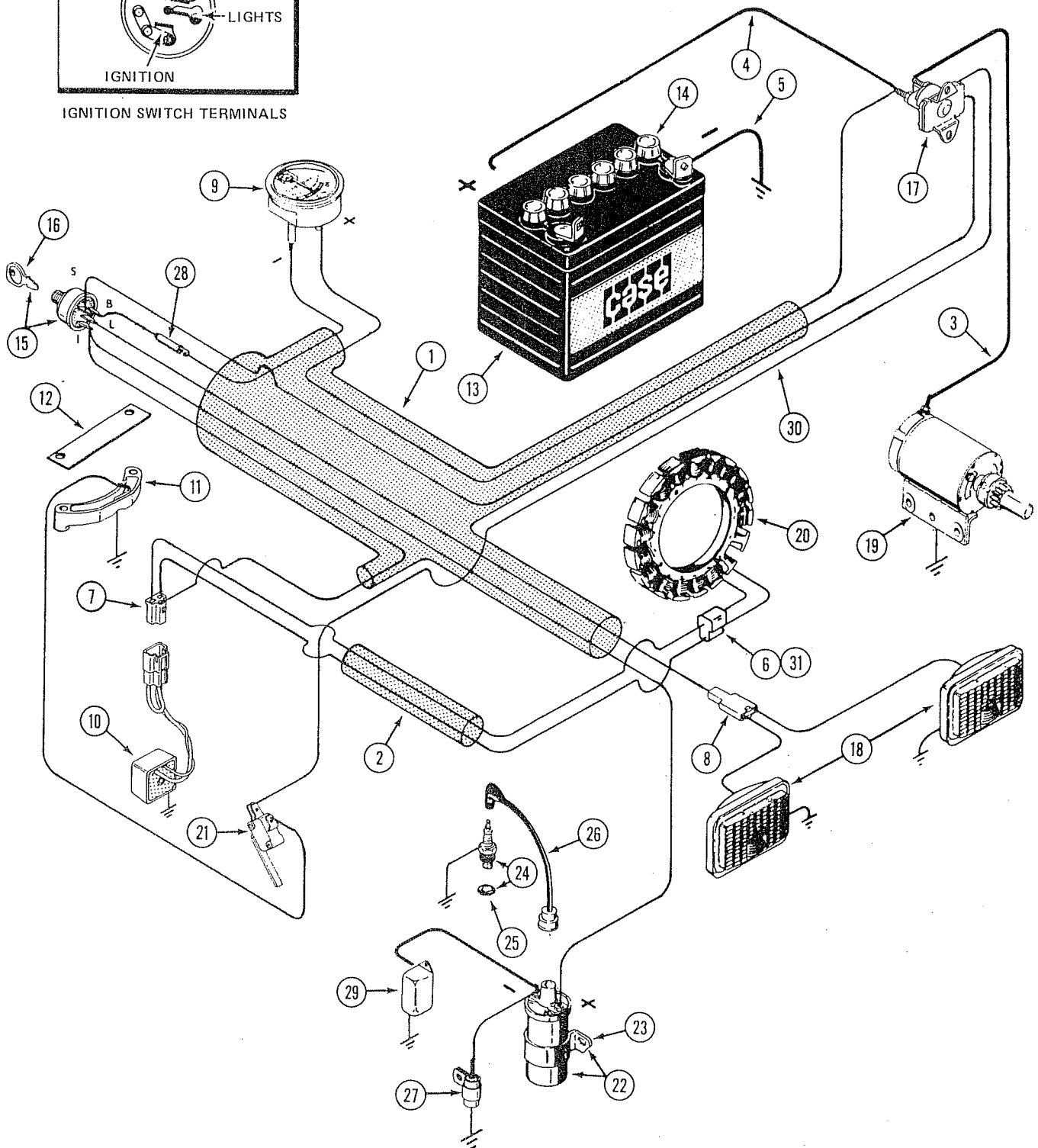
224 - use before S/N 9783251

444 - use before S/N 9784625

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24898	HARNESS - wire	1
2	C 24815	HARNESS - wire	1
3	C 24816	CABLE - solenoid to starter (black)	1
4	C 14565	CABLE - solenoid to battery positive (red)	1
5	C 24814	CABLE - battery negative to ground (black)	1
6	C 24813	CONNECTOR - to stator (included in C24815 harness)	1
7	C 19378	CONNECTOR - rectifier (early production)	1
8	C 14537	CONNECTOR - lights	1
9	C 18389	AMMETER - 30 amps, 12v	1
10	NSS	RECTIFIER - voltage, 12v (early production) (use C27509)	1
11	C 23002	SWITCH - neutral start (includes wire)	1
12	C 21989	INSULATOR - locator	1
13	C 18197	BATTERY - 12v	1
14	C 18113	CAP - battery	6
15	C 23010	SWITCH ASSEMBLY - ignition (includes key and lockwasher)	1
16	A 24509	KEY - ignition	1
17	C 14553	SOLENOID - start 12v	1
18	C 22571	HEADLAMP ASSEMBLY - 12v (repairs page 69)	2
19	C 24889	STARTER - bendix drive (repairs page 63)	1
20	V 34427	STATOR	1
21	C 24800	SWITCH - neutral start, PTO	1
22	KO 231281	COIL - ignition, 12v (includes bracket)	1
23	V 34435	BRACKET - coil mounting	1
24	C 24301	SPARK PLUG - (includes gasket)	1
25	A 27251	GASKET - spark plug	1
26	V 34433	KIT - high tension cable	1
27	KO 230722	CONDENSER	1
28	223- 20	FUSE - 20 amp (included in harness)	1
29	NSS	BREAKER CONTACT ASSEMBLY - ignition (repairs page 71)	1
30	C 24896	WIRE - solenoid to micro switch	1
31	C 27509	RECTIFIER - voltage, 12v (late production)	1
32	C 25486	CONNECTOR - rectifier (late production)	1
33	C 25338	CONNECTOR - from stator	1



IGNITION SWITCH TERMINALS



ELECTRICAL SYSTEM

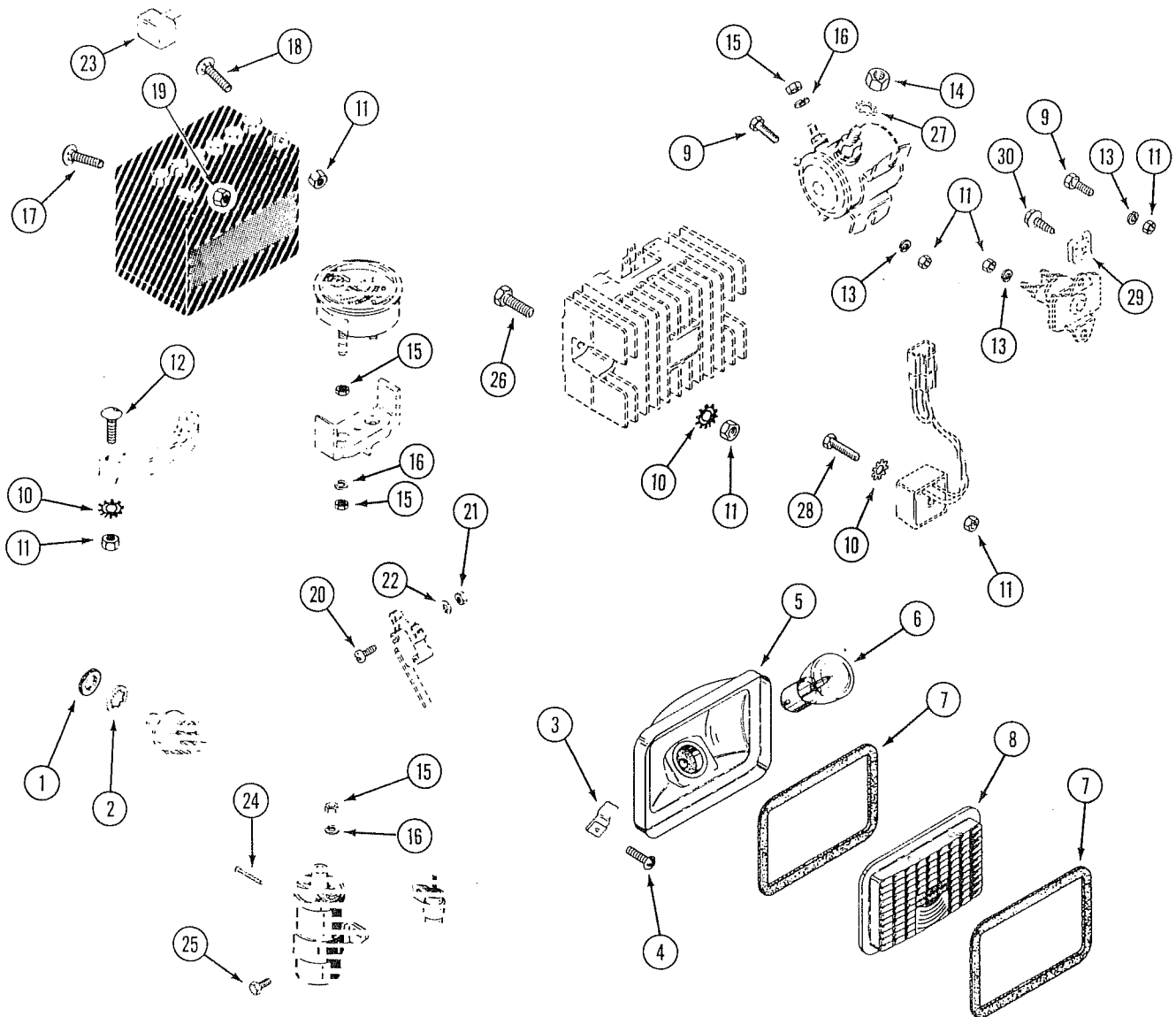
220 - use S/N 9779977 and after

222 - use S/N 9781649 and after

224 - use S/N 9783251 and after

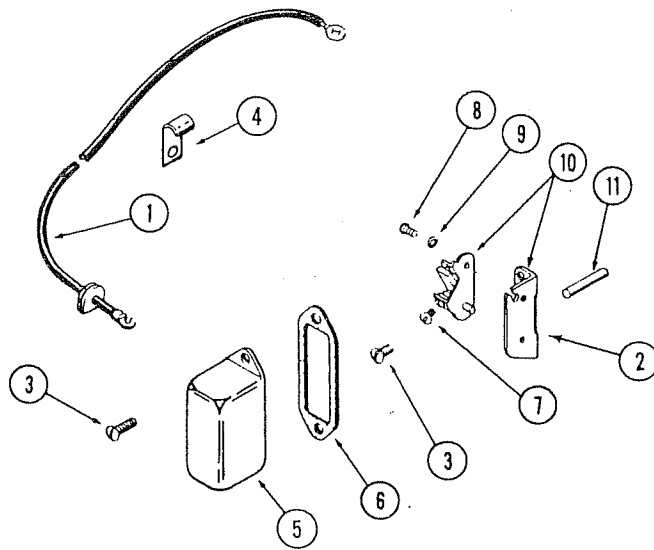
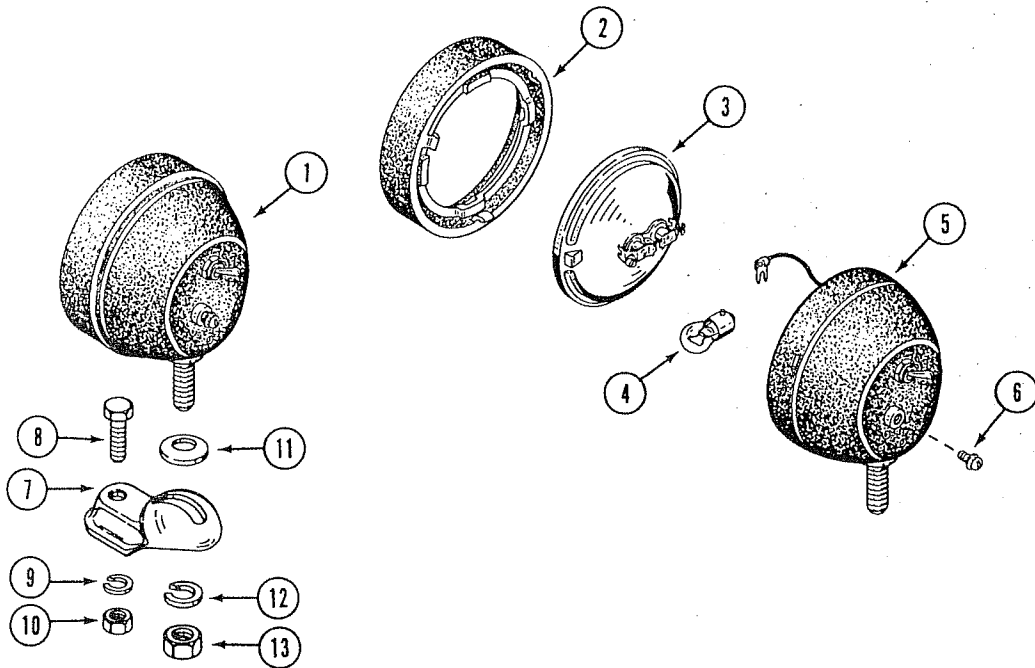
444 - use S/N 9784625 and after

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25564	HARNESS - wire	1
2	C 24815	HARNESS - wire	1
3	C 24816	CABLE - solenoid to starter (black)	1
4	C 14565	CABLE - solenoid to battery positive (red)	1
5	C 24814	CABLE - battery negative to ground (black)	1
6	C 24813	CONNECTOR - to stator (included in C24815 harness)	1
7	C 25486	CONNECTOR - rectifier	1
8	C 14537	CONNECTOR - lights	1
9	C 18389	AMMETER - 30 amps, 12v	1
10	C 27509	RECTIFIER - voltage, 12v	1
11	C 23002	SWITCH - neutral start (includes wire)	1
12	C 21989	INSULATOR - locator	1
13	C 18197	BATTERY - 12v	1
14	C 18113	CAP - battery	6
15	C 23010	SWITCH ASSEMBLY - ignition (includes key and lockwasher)	1
16	A 24509	KEY - ignition	1
17	NSS	SOLENOID - start 12v (use C26525)	1
18	C 22571	HEADLAMP ASSEMBLY - 12v (repairs page 69)	2
19	C 24889	STARTER - bendix drive (repairs page 63)	1
20	V 34427	STATOR	1
21	C 24800	SWITCH - neutral start, PTO	1
22	KO 231281	COIL - ignition, 12v (includes bracket)	1
23	V 34435	BRACKET - coil mounting	1
24	C 24301	SPARK PLUG - (includes gasket)	1
25	A 27251	GASKET - spark plug	1
26	V 34433	KIT - high tension cable	1
27	KO 230722	CONDENSER	1
28	223- 20	FUSE - 20 amp (included in harness)	1
29	NSS	BREAKER CONTACT ASSEMBLY - ignition (repairs page 71)	1
30	C 25563	WIRE - solenoid to micro switch	1
31	C 25338	CONNECTOR - from stator	1



ELECTRICAL SYSTEM HARDWARE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23330	NUT - switch mounting	1
2	C 23012	LOCKWASHER - internal tooth	1
3	131- 629	NUT - speed type "U"	4
4	187- 1334	SCREW - #8 x 1/2" self tapping, rd. head Phillips	4
	C 22571	HEADLAMP ASSEMBLY	2
5	NSS	RECEPTACLE - headlamp (order C22571).	1
6	A 41264	BULB - headlamp	1
7	C 14304	GASKET - headlamp.	2
8	C 22573	LENS - headlamp	1
9	113- 1	BOLT - 1/4" - 20 x 1/2" hex	2
10	193- 57	LOCKWASHER - 1/4" external tooth.	5
11	129- 101	NUT - 1/4" - 20 hex.	3
12	111- 139	BOLT - 1/4" - 20 x 1" rd. head sq. neck	2
13	192- 19	LOCKWASHER - 1/4"	2
14	129- 162	NUT - 5/16" NF hex	2
15	129- 37	NUT - #10 N.F. hex.	2
16	193- 99	LOCKWASHER - #10	2
17	111- 202	BOLT - 5/16" x 3/4" N.C. rd. head sq. neck	1
18	111- 108	BOLT - 1/4" x 3/4" N.C. rd. head sq. neck	1
19	129- 102	NUT - 5/16" NC hex	1
20	182- 10	SCREW - #4 - 40 x 7/8" N.C. pan head	2
21	129- 13	NUT - #4 - 40 hex	2
22	192- 13	LOCKWASHER - #4	2
23	C 24069	COVER - terminal	1
24	187- 1844	SCREW - #10 x 1-1/2" N.F. self tap	1
25	22- 58	BOLT - 5/16 x 1/2 N.C. hex, self tap.	2
26	113- 3	BOLT - 1/4" - 20 x 3/4" hex	2
27	193- 29	LOCK WASHER - 5/16"	2
28	113- 17	BOLT - 1/4" - 20 x 1-1/4" hex	1
29	C 10836	NUT - speed type.	2
30	187- 1908	SCREW - self tapping.	2
	C 19521	CLIP - headlight wire	1

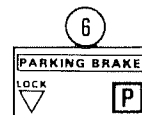
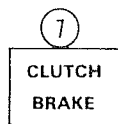
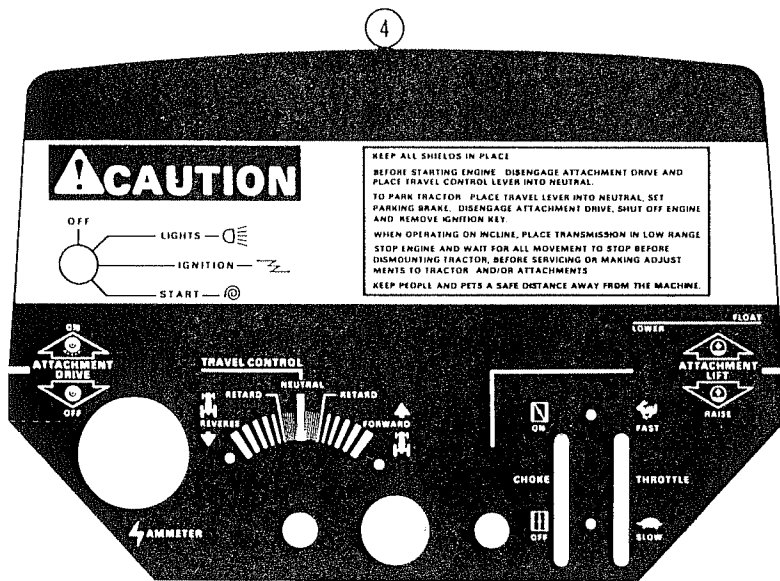


D70115 FLOOD AND TAIL LAMP (OPTIONAL)

REF.	PART NO.	DESCRIPTION	REQ'D
1	D 70115	LIGHT ASSEMBLY - flood and tail	1
2	A 25213	RETAINER - sealed beam	1
3	A 40855	LAMP - sealed beam #4409X	1
4	33686	BULB - tail #1141	1
5	NSS	BODY - light (order D70115 light assembly)	1
6	193- 543	SCREW AND LOCKWASHER - #8 - 32 x 3/8" N.C.	1
7	A 34046	BRACKET - mounting	1
8	113- 209	BOLT - 3/8" x 1-1/2" N.C. hex	1
9	192- 21	LOCKWASHER - 3/8"	1
10	129- 103	NUT - 3/8" N.C. hex	1
11	10923	WASHER - bearing	1
12	192- 23	LOCKWASHER - 1/2"	1
13	129- 105	NUT - 1/2" N.C. hex.	1

BREAKER CONTACTS

1	NSS	LEAD - breaker contact (order from local supplier)	1
2	NSS	BRACKET - breaker contacts	1
3	V 34421	SCREW - #10 x 3/8" round head, zinc plated	4
4	KO 275182	RETAINER - wire	1
5	V 35060	COVER - breaker contact	1
6	C 26518	GASKET - cover	1
7	187- 408	SCREW - #6 x 3/8" self-tapping	1
8	173- 224	SCREW - #8 x 1/4" N.C. round head.	1
9	193- 90	LOCKWASHER - #8 internal tooth.	1
10	C 24135	POINT SET - breaker contact assembly.	1
11	C 27440	ROD - breaker contact push	1



1

Case

14

220

15

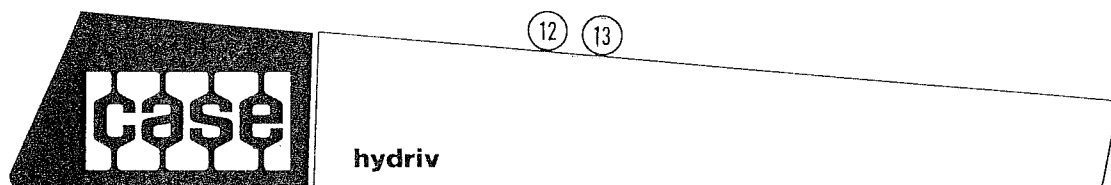
222

16

224

17

444



8

220

10

224

9

222

11

444

DECALS

USED PRIOR TO S/N:

9749188 - 220

9750875 - 222

9752340 - 224

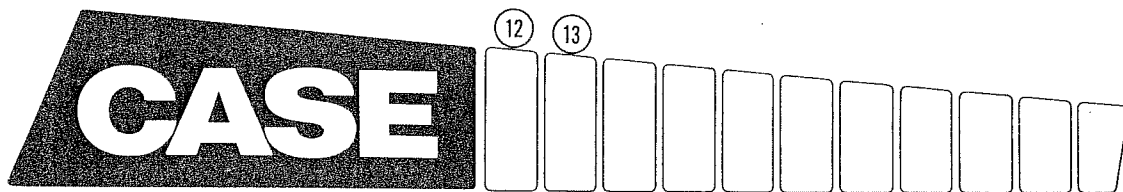
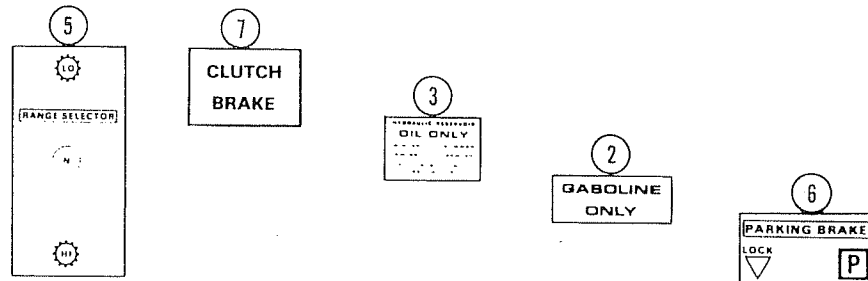
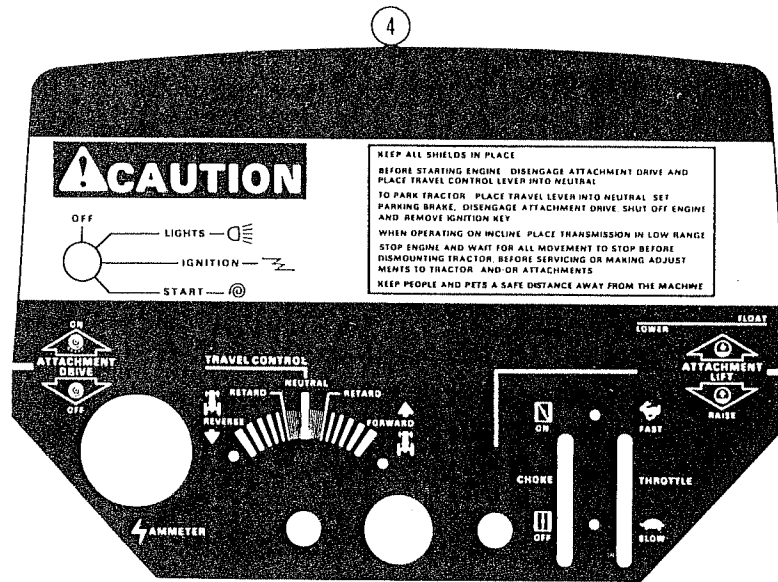
9753695 - 444

(English)

REF.	PART NO.	DESCRIPTION	REQ'D
1	321- 2677	DECAL - "CASE", fender	1
2	321- 18	DECAL - gasoline	1
3	321- 4767	DECAL - hydraulic reservoir	1
4	321- 3585	DECAL - instrument panel.	1
5	321- 1788	DECAL - shift range.	1
6	NSS	DECAL - parking brake (use 321-6227)	1
7	NSS	DECAL - clutch, brake (use 321-6227)	1
8	321- 4162	DECAL - hood top, 220.	1
9	321- 4163	DECAL - hood top, 222.	1
10	321- 4164	DECAL - hood top, 224.	1
11	321- 4165	DECAL - hood top, 444.	1
12	321- 4155	DECAL - hood, R.H. (shown)	1
13	321- 4156	DECAL - hood, L.H.	1
14	321- 4147	DECAL - fender, "220"	1
15	321- 4150	DECAL - fender, "222"	1
16	321- 4151	DECAL - fender, "224"	1
17	321- 4152	DECAL - fender, "444"	1

(French and English)

2	321- 4728	DECAL - gasoline	1
3	321- 4764	DECAL - hydraulic reservoir	1
4	321- 4734	DECAL - instrument panel	1
5	321- 4693	DECAL - shift range	1
6	321- 4697	DECAL - parking brake.	1
7	321- 6324	DECAL - clutch, brake	1



8

220
hydriiv

1

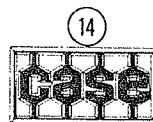
CASE

10

224
hydriiv

9

222
hydriiv



11

444
hydriiv

DECALS

USE S/N AND AFTER

9749188 — 220

9750875 — 222

9752340 — 224

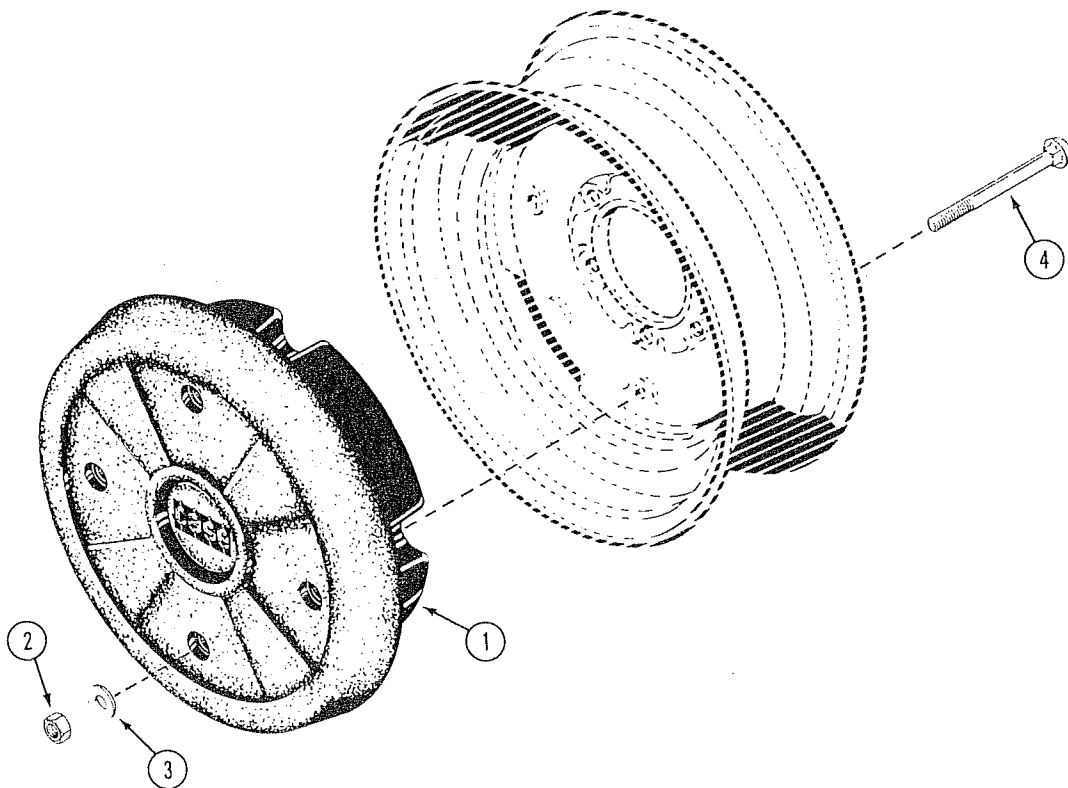
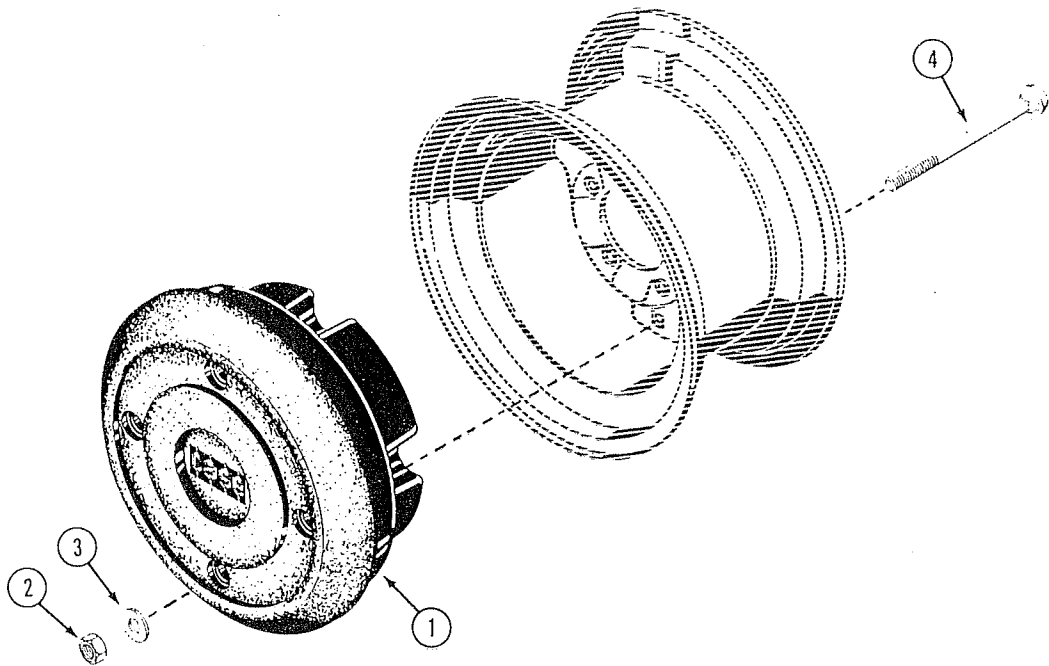
9753695 — 444

(English)

REF.	PART NO.	DESCRIPTION	REQ'D
1	321- 5097	DECAL - "Case" seat back	1
2	321- 18	DECAL - gasoline.	1
3	321- 4767	DECAL - hydraulic reservoir	1
4	321- 3585	DECAL - instrument panel	1
5	321- 1788	DECAL - shift range.	1
6	NSS	DECAL - parking brake (use C27481)	1
7	NSS	DECAL - clutch, brake (use C27481)	1
8	321- 5103	DECAL - hood top, 220.	1
9	321- 5104	DECAL - hood top, 222.	1
10	321- 5105	DECAL - hood top, 224.	1
11	321- 5106	DECAL - hood top, 444.	1
12	321- 5100	DECAL - hood R. H. (shown)	1
13	321- 5101	DECAL - hood L. H.	1
14	321- 5040	MEDALLION - "CASE"	1

(French)

1	NSS	DECAL - "Case" seat back	1
2	321- 4728	DECAL - gasoline.	1
3	321- 4764	DECAL - hydraulic reservoir	1
4	321- 4734	DECAL - instrument panel	1
5	321- 4693	DECAL - shift range.	1
6	NSS	DECAL - parking brake (use 321- 6324)	1
7	321- 6324	DECAL - clutch, brake.	1
8	NSS	DECAL - hood top, 220.	1
9	NSS	DECAL - hood top, 222.	1
10	NSS	DECAL - hood top, 224.	1
11	NSS	DECAL - hood top, 444.	1
12	NSS	DECAL - hood R. H. (shown)	1
13	NSS	DECAL - hood L. H.	1
14	NSS	MEDALLION - "Case"	1

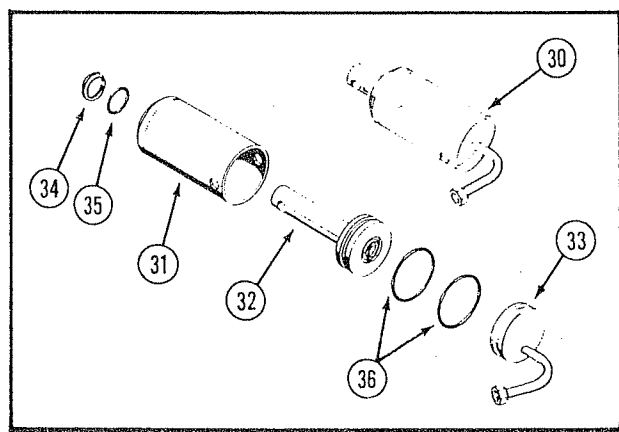
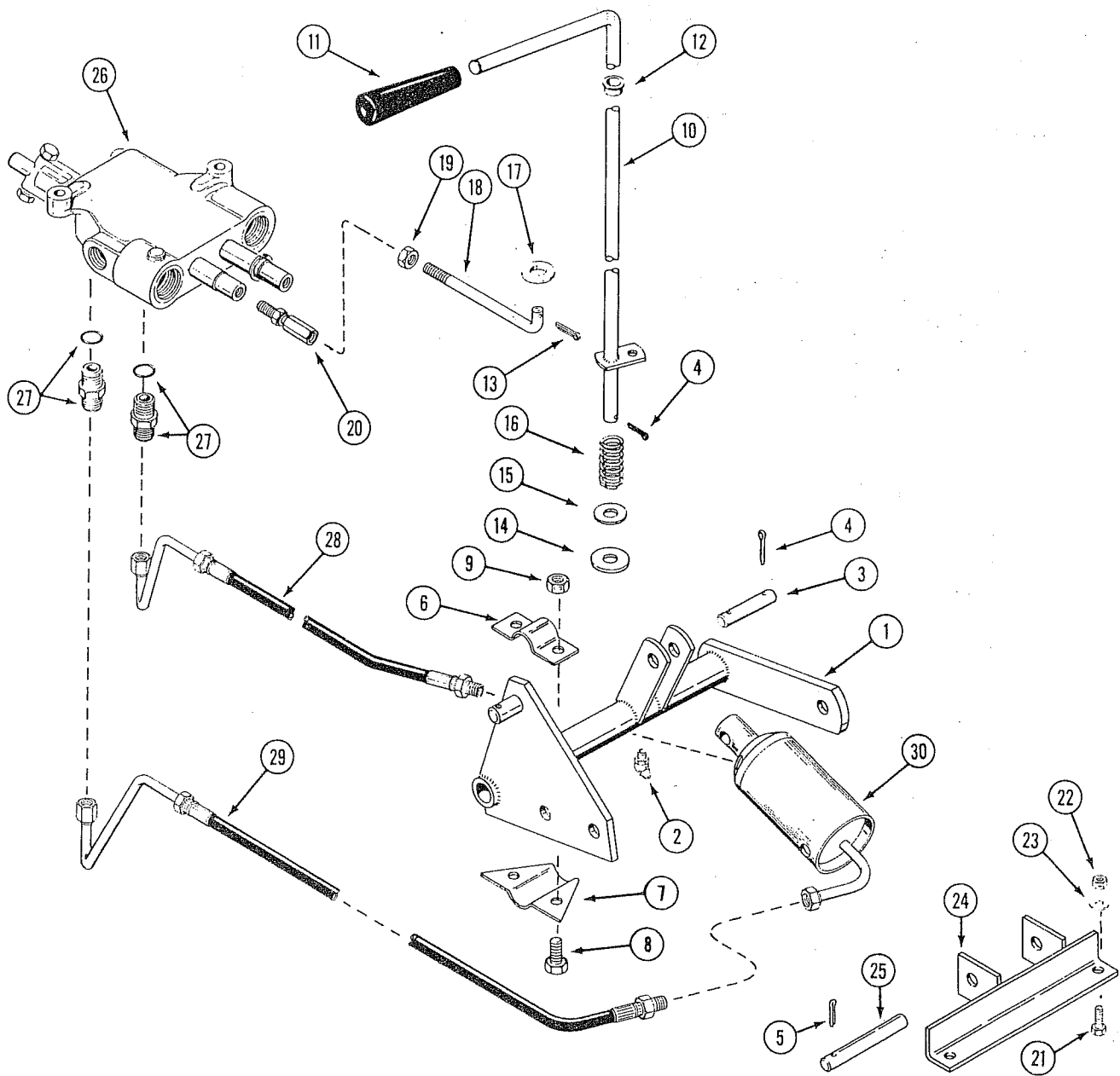


K8 WHEEL WEIGHTS — MODEL 220, 222, AND 224

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	WEIGHT - wheel 55 lb. (Order as Machinery Item)	2
2	131- 1182	NUT - 1/2" NC hex lock	8
3	195- 533	WASHER - 1/2"	8
4	111- 521	BOLT - 1/2" x 7" Rd. head Sq. neck	8

K10 WHEEL WEIGHTS — MODEL 444

1	NSS	WEIGHT - wheel 75 lb. (Order as Machinery Item)	2
2	131- 1182	NUT - 1/2" NC hex lock	8
3	195- 533	WASHER - 1/2"	8
4	111- 525	BOLT - 1/2" x 6" Rd. head Sq. neck	8



MODEL J30 HYDRAULIC LIFT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 19661	ROCKSHAFT ASSEMBLY - (444).....	1
1	C 18808	ROCKSHAFT ASSEMBLY - (220, 222 and 224) shown	1
2	219- 404	FITTING - lube	1
3	C 18251	PIN - cylinder to lever	1
4	132- 310	PIN - cotter 1/8" x 1"	3
5	132- 361	PIN - cotter 1/8" x 2-1/2" (early production)	1
5	132- 310	PIN - cotter 1/8" x 1"	1
6	C 17249	BRACKET - mounting, top	2
7	C 17250	BRACKET - mounting, bottom	2
8	113- 207	BOLT - 3/8" x 1" NC hex	4
9	131- 1181	NUT - 3/8" NC hex	4
10	C 16163	LEVER - lift control	1
11	A 37247	KNOB - control lever	1
12	C 12093	BUSHING - lift lever	1
13	132- 26	PIN - cotter 3/32" x 3/4"	1
14	195- 533	WASHER - 1/2"	1
15	C 21518	WASHER - nylon	1
16	C 25595	SPRING - control lever	1
17	195- 521	WASHER - 5/16"	1
18	C 18742	ROD - control	1
19	129- 122	NUT - 5/16 NF hex	1
20	C 19025	BALL JOINT	1
21	113- 207	BOLT - 3/8" x 1" NC hex	2
22	131- 1181	LOCKNUT - 3/8" NC hex	2
23	195- 104	WASHER - 3/8" x 1-1/8" OD	2
24	C 26185*	BRACKET - cylinder	1
25	C 26188	PIN - cylinder foot	1
26	C 27217	VALVE - hydraulic, 2 spool	1
27	218- 5056	FITTING - valve (includes 218-5004 "O" ring)	2
28	C 17224	HOSE - short	1
29	C 17734	HOSE - long	1
30	NSS	CYLINDER - lift (order C19475 and D63720 pin)	1
31	C 16133	BODY - cylinder	1
32	C 19104	ROD AND PISTON ASSEMBLY	1
33	C 17732	FOOT - cylinder	1
34	C 14970	SEAL	1
35	A 7623	"O" RING	1
36	A 30971	"O" RING	2
	C 13106	COVER - lube fitting	1

*also requires D63720 pin before S/N:

220 - 14005176

222 - 14006635

224 - 14007760

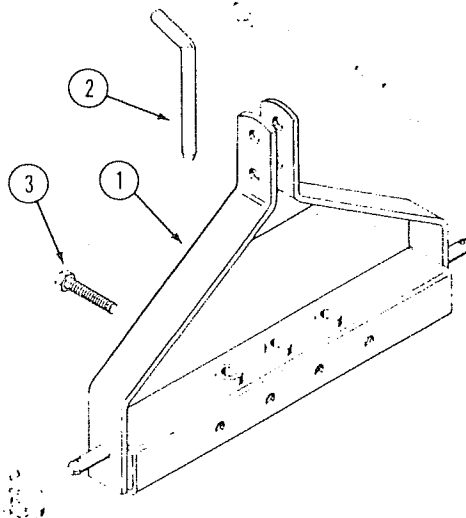
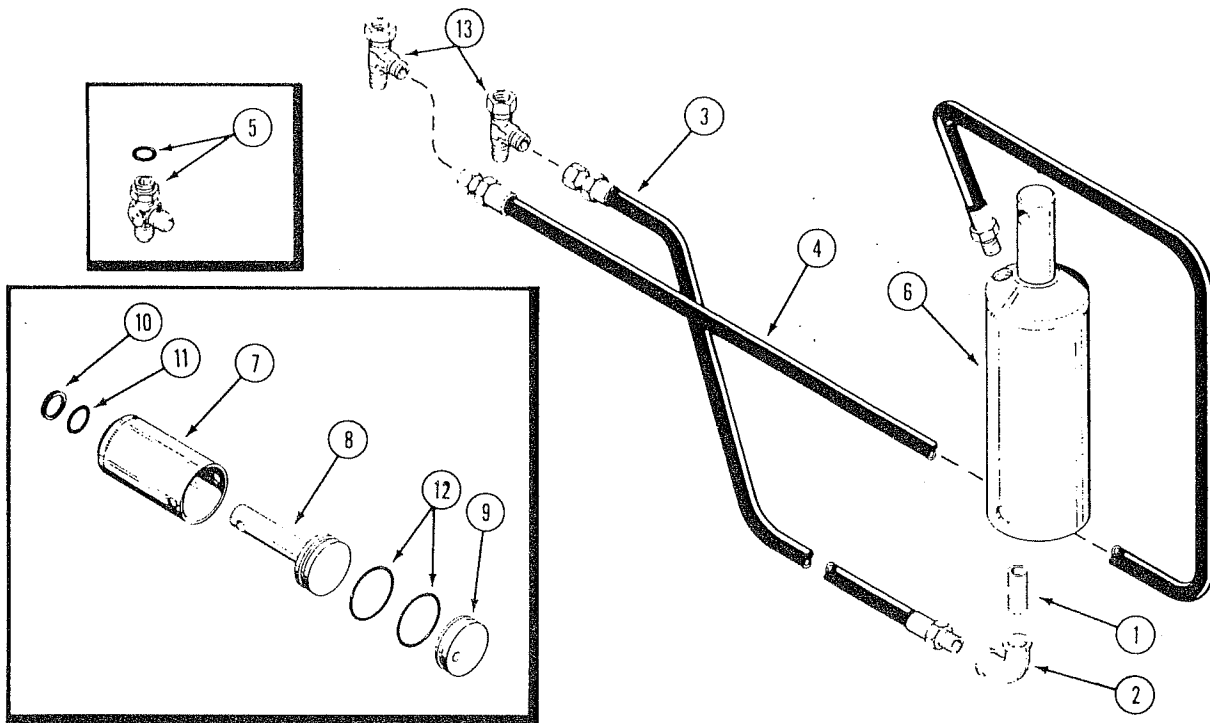
444 - 14009197

H26 AND J26 THREE POINT HITCH FRAME, LIFT RODS AND ARMS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 19740	HITCH PLATE ASSEMBLY	1
2	219- 405	FITTING - lube	2
	C 24447	ROD ASSEMBLY - lift R.H.	1
3	C 14722	NUT - lift rod	1
4	C 14724	ROD ASSEMBLY - R.H. lift	1
5	138- 308	PIN - roll 1/4 x 3"	1
6	132- 91	PIN - cotter 3/16 x 1"	6
7	195- 541	WASHER - plain 5/8"	4
8	C 14715	ARM - lift	2
9	C 14991	CHAIN - stay 19 links	1
10	113- 118	BOLT - 5/16 x 5/8" hex, zinc plated	2
11	131- 176	NUT - lock 5/16" NC hex	2
12	B 52118	PIN - klik	2
13	A 30338	PIN - klik	3
14	C 14725	ROD - lift L.H.	1
15	C 14717	PIN - clevis	1
	C 14712	LINK ASSEMBLY	1
16	C 14703	CENTER TUBE ASSEMBLY	1
17	C 14709	BALL END ASSEMBLY R.H. THREAD	1
18	C 14710	BALL END ASSEMBLY L.H. THREAD	1
19	138- 59	PIN - roll 1/8 x 7/8" (early production)	2
20	C 16128	PIN - clevis 5/8 x 3"	1

H26 AND J26 THREE POINT HITCH CYLINDER AND DRAWBAR MOUNTING

1	C 19740	HITCH PLATE ASSEMBLY	1
2	C 19481	PIN - lower cylinder mounting	1
3	C 14976	PIN - upper cylinder mounting	1
4	132- 310	PIN - cotter 1/8 x 1"	3
5	113- 417	BOLT - 1/2 x 1-1/4" NC, hex, zinc plated	2

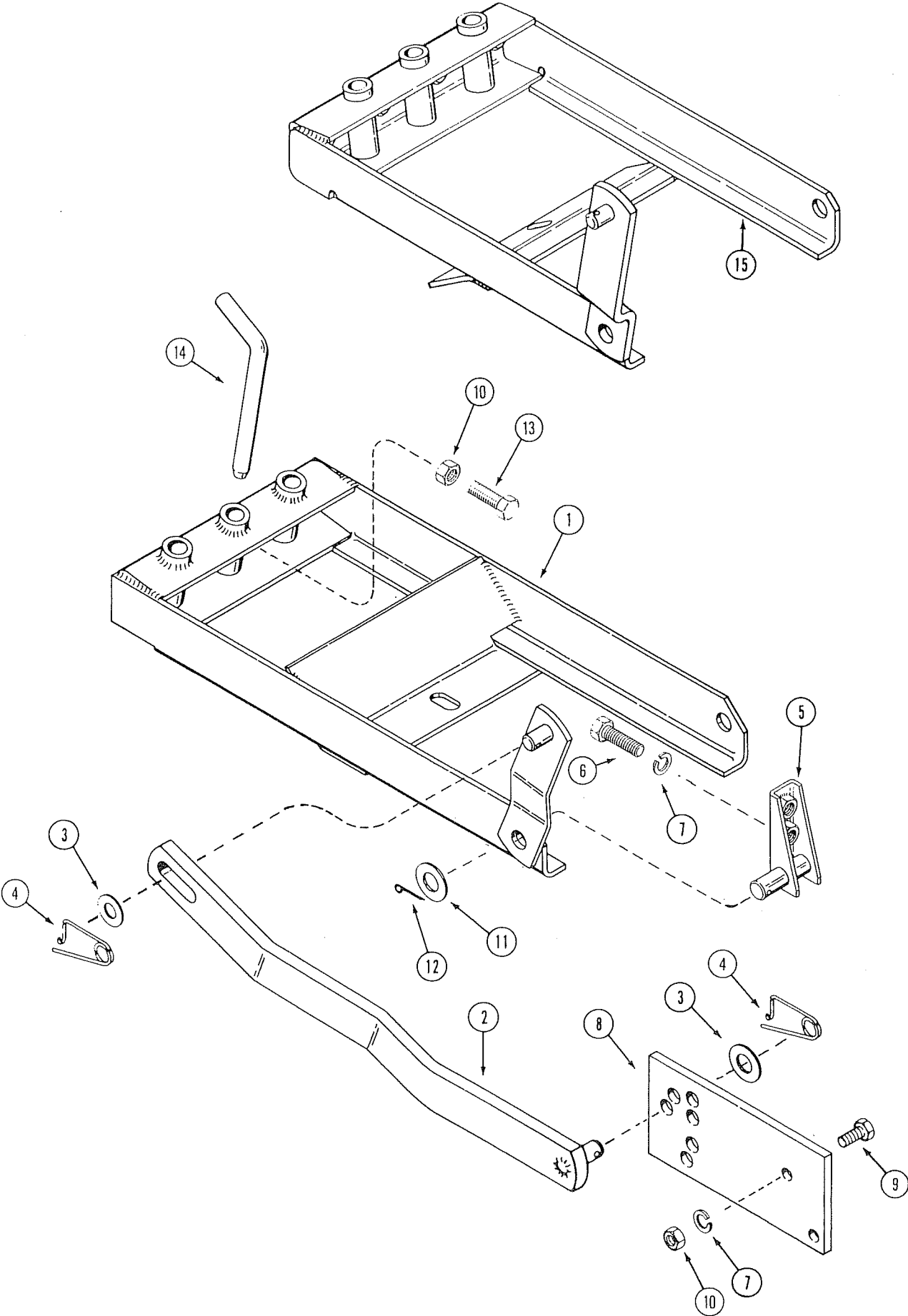


MODEL H26 AND J26 THREE POINT HITCH AND HYDRAULIC CONNECTIONS AND COMPONENTS

REF.	PART NO.		DESCRIPTION	REQ'D
1	221-	1139	NIPPLE - 1/4 x 3"	1
2	221-	1375	ELBOW - 90°	1
3	C	25369	HOSE - hydraulic short	1
4	C	25368	HOSE - hydraulic long	1
5	218-	5291	FITTING - tee (Includes 218-5004 "O" ring)(early production)	2
6	NSS		CYLINDER ASSEMBLY - (order (1) C19480 cylinder and (1) S10817 pin)	1
7	C	19476	BODY - cylinder (also use S10817 pin)	1
8	C	19469	ROD AND PISTON ASSEMBLY	1
9	C	14692	FOOT - cylinder	1
10	C	14970	SEAL - wiper	1
11	A	7623	"O" RING	1
12	A	30971	"O" RING	2
13	218-	5479	FITTING - tee, swivel (late production)	2

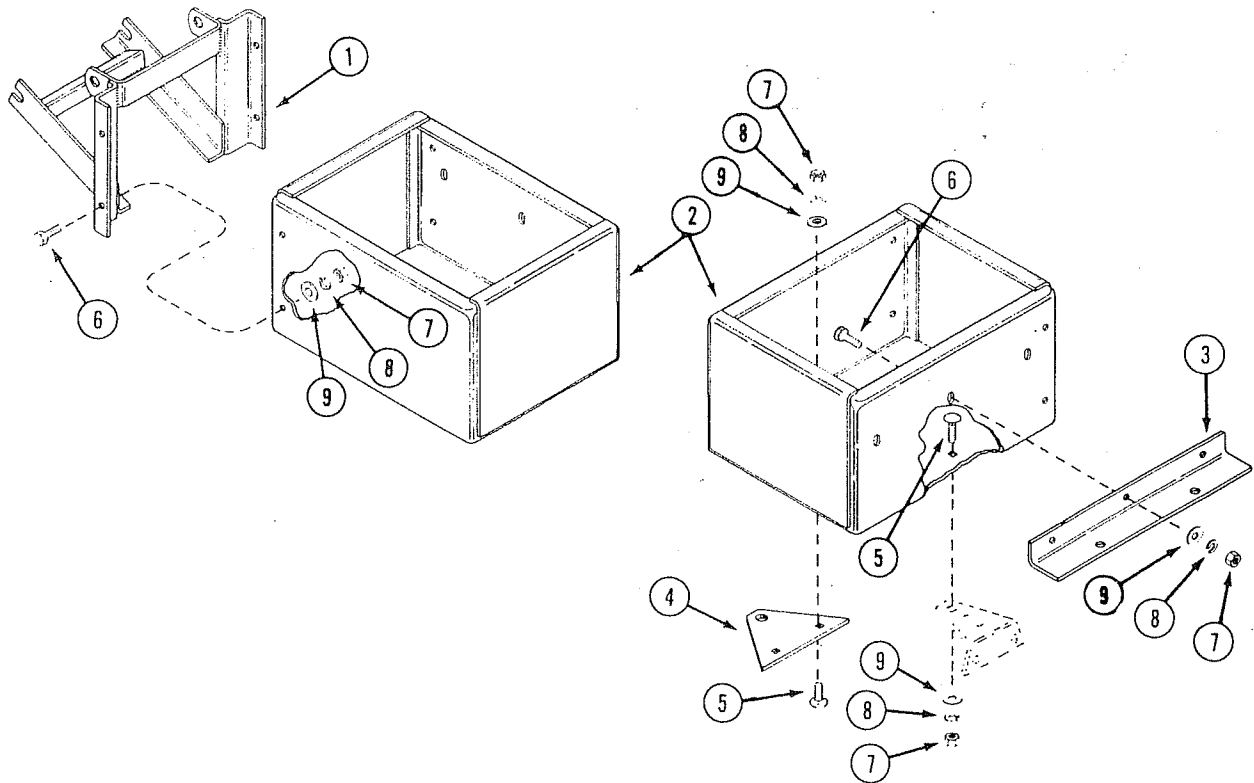
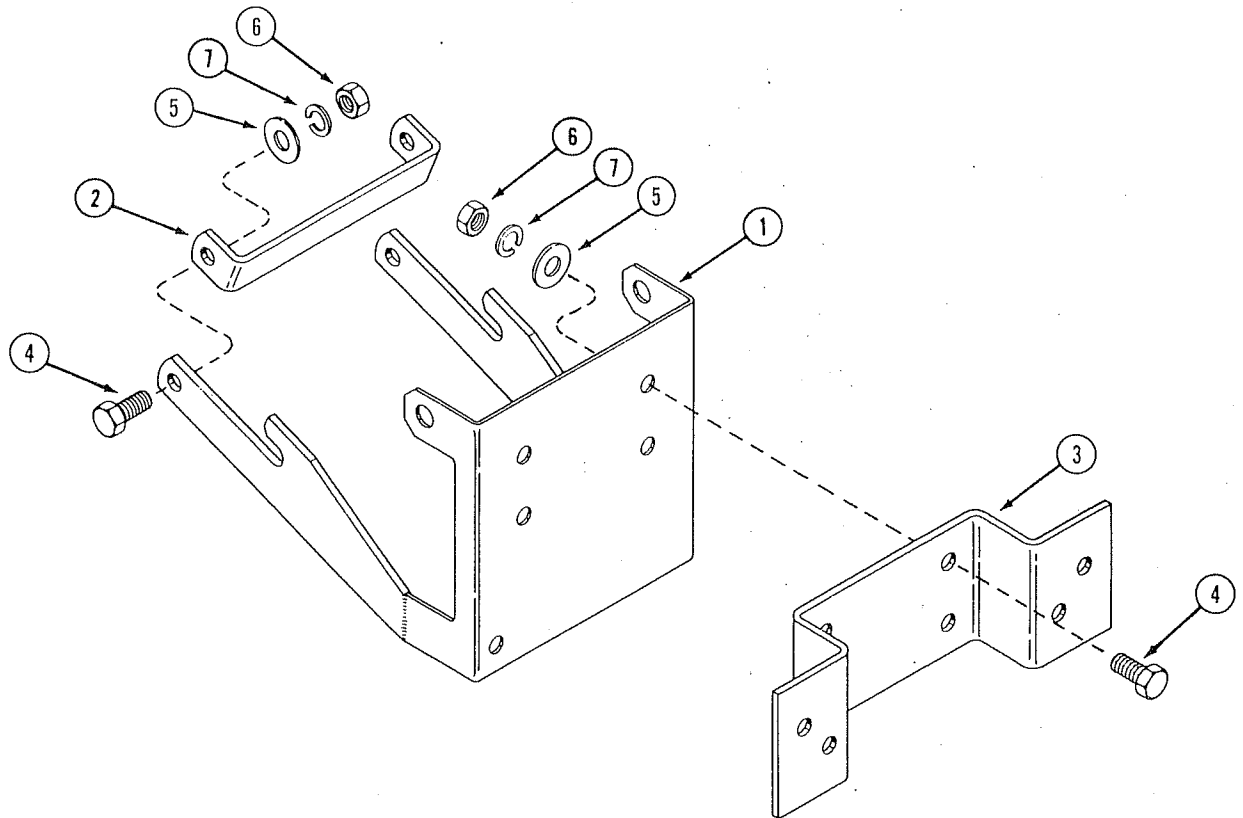
MODEL F-27 HITCH ADAPTER

1	C	14872	BRACKET - hitch adapter	1
2	C	14568	PIN - drawbar	1
3	113-	425	BOLT - 1/2 x 3" NC hex, zinc plated	4



MODEL J22, J24, K22 AND K24 SLEEVE HITCH

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 22218	HITCH FRAME ASSEMBLY (444) (J24, K24)	1
2	C 14457	ARM - lift (J22, J24)	1
2	C 25371	ARM - lift (K22, K24)	1
3	195- 541	WASHER - plain 21/32"	2
4	C 10898	PIN - safety	2
5	C 14459	BRACKET - hitch mounting R.H. shown	1
5	C 25789	BRACKET - hitch mounting L.H.	1
6	113- 410	BOLT - 1/2 x 1-1/2" NC hex, zinc plated	4
7	192- 23	LOCKWASHER - 1/2" zinc plated	6
8	C 25382	PLATE - lift lever	1
9	113- 417	BOLT - 1/2 x 1-1/4" NC hex, zinc plated	2
10	129- 105	NUT - 1/2" NC hex, zinc plated	4
11	195- 545	WASHER - plain 3/4" zinc plated	2
12	132- 306	PIN - cotter 3/16 x 1-3/4"	2
13	22- 844	BOLT - 1/2 x 2-3/4" NC hex, zinc plated	2
14	C 14568	PIN - drawbar	1
15	C 23707	HITCH FRAME ASSEMBLY (220, 222 and 224) (J22, K22)	1

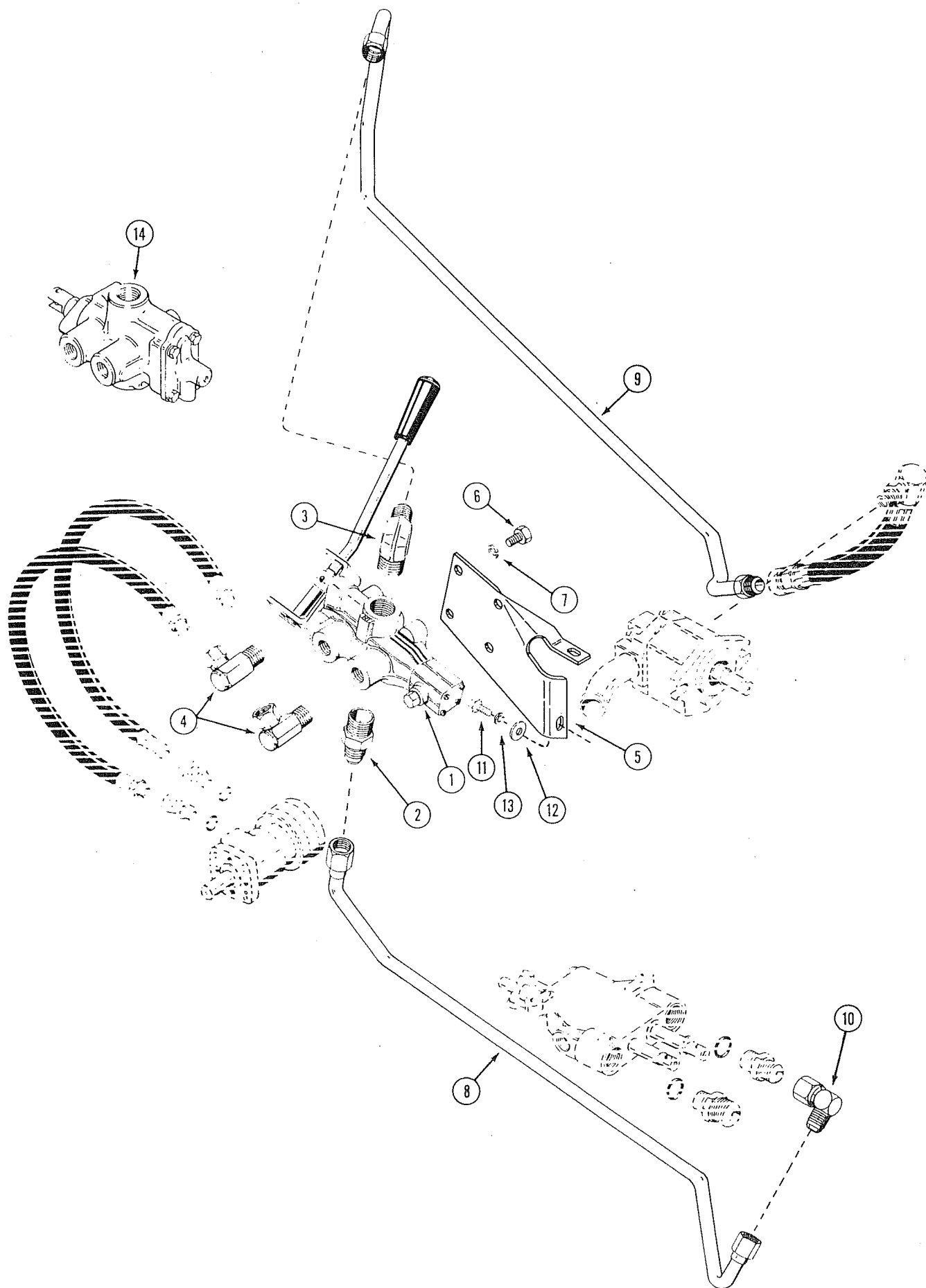


MODEL H18 FRONT END WEIGHT BRACKETS

REF.	PART NO.		DESCRIPTION	REQ'D
1	C	16581	BRACKET - mounting	1
2	C	17161	BRACE - rear	1
3	C	17162	BRACKET - weight mounting.	1
4	113-	417	BOLT - 1/2 x 1-1/4" NC hex, zinc plated	6
5	195-	533	WASHER - 1/2" zinc plated	8
6	25-	108	NUT - 1/2" NC hex, zinc plated	8
7	192-	23	LOCKWASHER - 1/2"	8

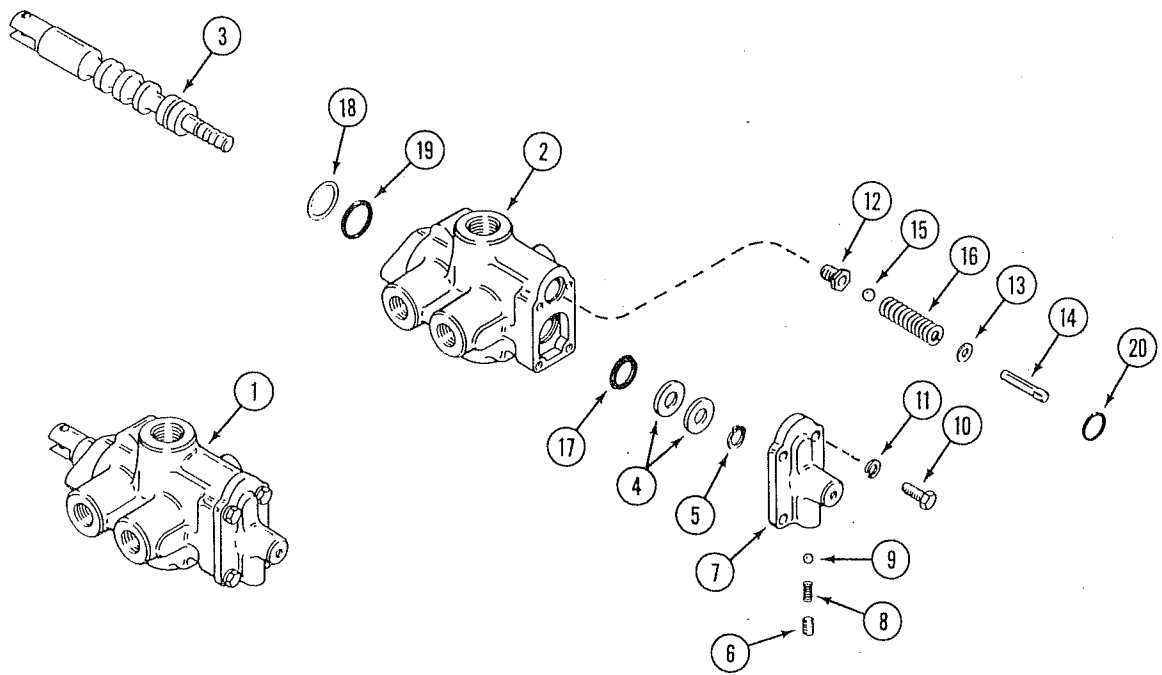
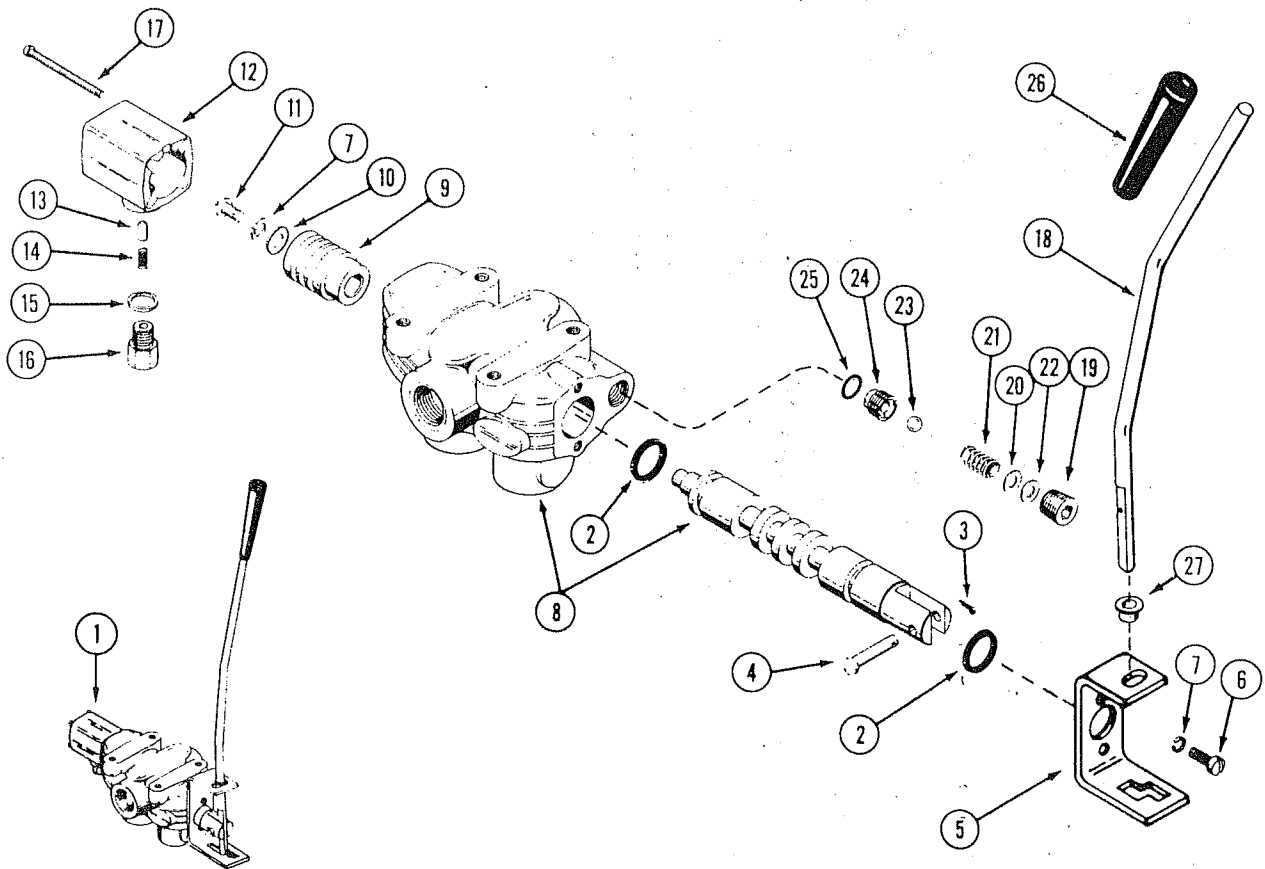
MODEL H13 WEIGHT BOX

1	C	17859	FRAME - weight box	1
2	C	17863	BOX - weight	1
3	C	17860	SUPPORT - weight box	1
4	C	17636	PLATE - hitch	1
5	111-	371	BOLT - 3/8" x 1" round head, square neck	3
6	113-	207	BOLT - 3/8" x 1" NC hex	4
7	129-	103	NUT - 3/8" NC hex	7
8	192-	21	LOCKWASHER - 3/8"	7
9	195-	525	WASHER - 3/8"	7



J17, K17 AND L17 HYDRAULIC PTO KIT

REF.	PART NO.		DESCRIPTION	REQ'D
1	C	18281	VALVE - PTO control (J17, L17)	1
2	218-	457	FITTING - straight 3/4" NPT x 5/8" tube.	1
3	218-	494	FITTING - elbow 90° 3/4" NPT x 5/8" tube	1
4	218-	927	FITTING - elbow 90° 1/2" NPT x 1/2" female NPSM swivel	2
5	C	23337	BRACKET - valve mounting	1
6	113-	206	BOLT - 3/8" hex NC x 3/4"	4
7	192-	21	LOCKWASHER - 3/8"	4
8	C	23888	TUBE - PTO valve to travel control valve (J17, K17)	1
8	C	25343	TUBE - PTO valve to travel control valve (L17)	1
9	C	25344	TUBE - pump to PTO valve (L17)	1
9	C	23962	TUBE - pump to PTO valve (J17, K17).	1
10	218-	5232	FITTING - 90° swivel elbow 3/4" x 3/4" flare 3/4" NPT x 5/8" tube	1
11	113-	103	BOLT - 5/16" x 1" NC hex	3
12	195-	521	WASHER - 5/16"	3
13	192-	20	LOCKWASHER - 5/16"	3
14	NSS		VALVE - control (K17) (use C18281)	1

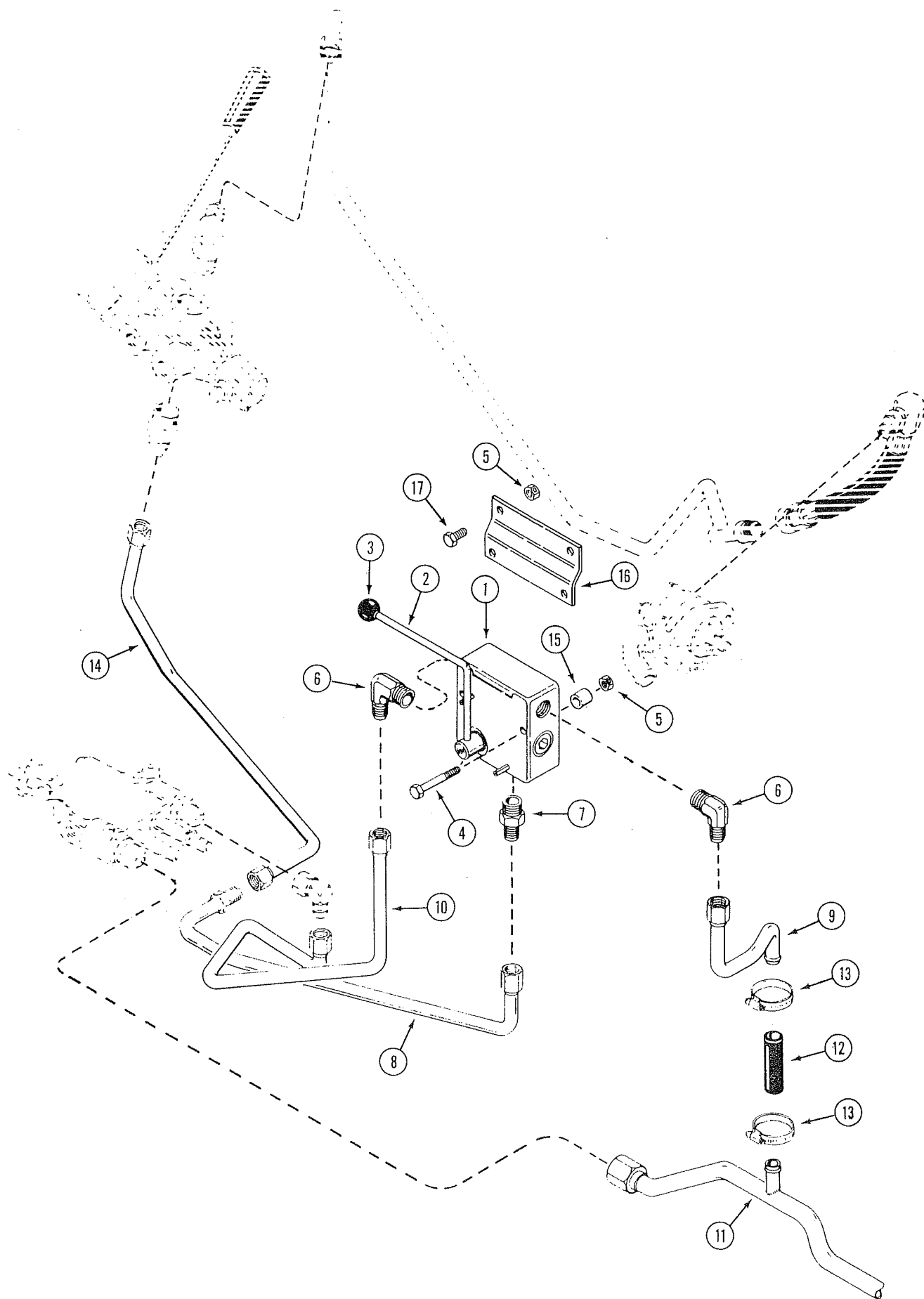


J17 AND L17 HYDRAULIC PTO VALVE J17, K17 AND L17 LEVER ASSEMBLY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18281	VALVE - control	1
2	C 11891	SEAL - U-cup	2
3	132- 5	PIN - cotter 1/16" x 1/2"	1
4	36627	PIN - handle	1
5	C 19422	BRACKET - handle	1
6	71- 410	SCREW - 1/4" x 5/8" NC fillister head	2
7	36628	LOCKWASHER - 1/4"	3
8	NSS	BODY AND SPOOL ASSEMBLY (use C18281 valve)	1
9	C 11895	ADAPTER - spool	1
10	195- 102	WASHER - plain 1/4"	1
11	75- 48	SCREW - 1/4" x 1/2" rd. hd. machine	1
12	C 11893	BONNET - detent	1
13	C 11901	PIN - detent	1
14	C 11892	SPRING - detent	1
15	C 11886	WASHER - detent spring	1
16	C 11887	CAP - detent	1
17	169- 88	SCREW - bonnet #8-32 x 2" fillister head	4
18	C 19423	LEVER - valve	1
19	221- 1842	PLUG - relief 3/8" NPT	1
20	D 39712	SHIM - .010" thick	UAR
21	T 40189	SPRING - relief	1
22	A 55894	SHIM - .020" thick	UAR
23	211- 11	BALL - relief 3/8"	1
24	C 18417	SEAT - relief	1
25	A 27891	"O" RING - relief seat	1
26	A 37247	KNOB - hand throttle	1
27	C 26266	BUSHING - nylon	1

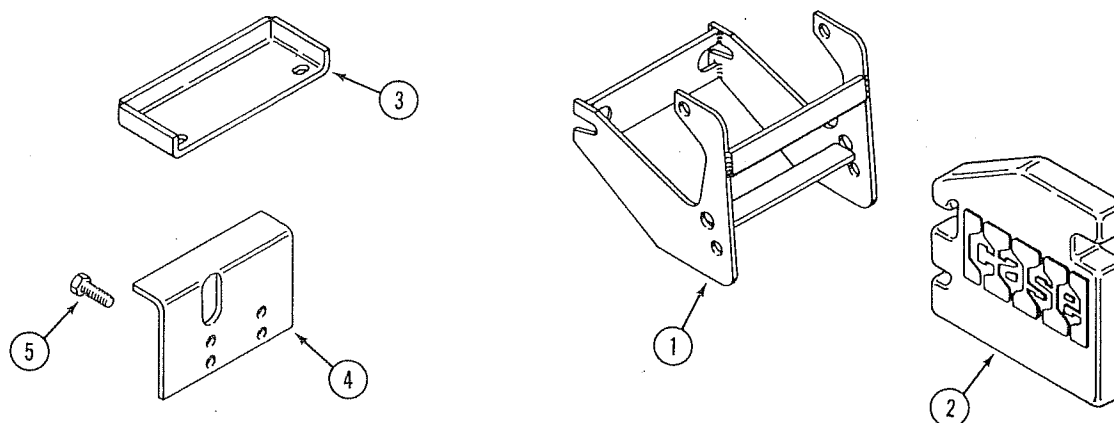
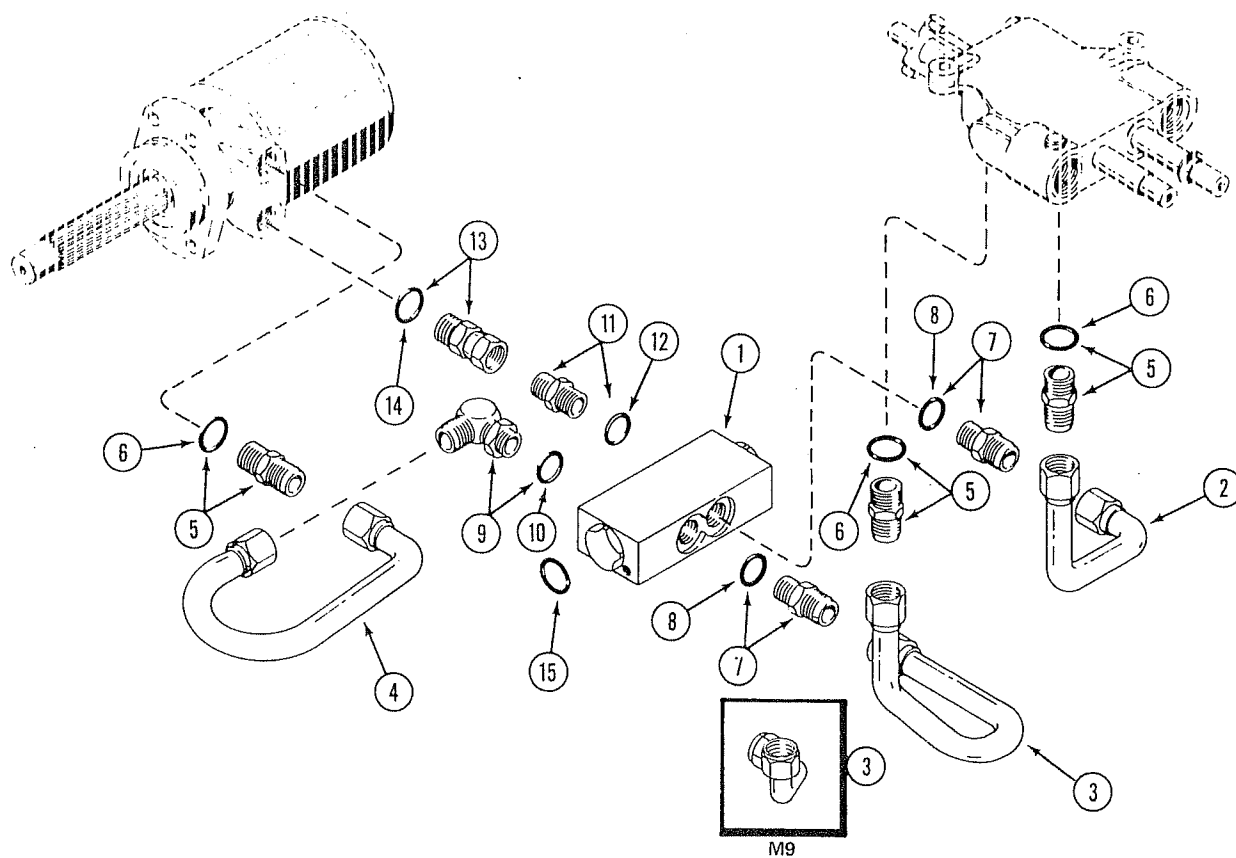
K-17 HYDRAULIC PTO VALVE

1	NSS	VALVE - control (use C18281 valve)	1
2	NSS	BODY - valve (order C18281 valve)	1
3	NSS	SPOOL - valve (order C18281 valve)	1
4	195- 533	WASHER - spool	2
5	H 202416	RETAINER - spool	1
6	173- 38	SCREW - set	1
7	NSS	COVER - detent and relief	1
8	NSS	SPRING - detent	1
9	211- 7	BALL - detent, 1/4" steel	1
10	113- 3	BOLT - 1/4" - 20 x 3/4" hex	4
11	192- 19	LOCKWASHER - 1/4"	4
12	H 35592	SEAT - relief	1
13	NSS	SHIM - pressure adjust	1
14	NSS	PIN - limit	1
15	211- 103	BALL - relief, 5/16" steel	1
16	NSS	SPRING - relief	1
17	NSS	V-PACKING	1
18	NSS	WASHER - backup	1
19	L 32176	"O" RING	1
20	A 15888	"O" RING	1



MODEL L19 AND M19 FLOW CONTROL VALVE KIT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23618	VALVE - flow control	1
	A 27365	"O" RING - shaft 3/4" x 15/16"	2
	F 62023	RING - retaining - shaft .867 I.D.	2
2	C 18720	LEVER - valve	1
3	A 61683	KNOB - lever	1
4	113- 12	BOLT - 1/4" x 2-1/2" NC hex (L19)	2
4	113- 15	BOLT - 1/4" - 20 x 2-1/4" NC hex (M19)	2
5	131- 1180	NUT - lock 1/4" NC hex	4
6	218- 485	FITTING - elbow 90° 1/2" NPT	2
7	218- 445	FITTING - straight 1/2" NPT	1
8	C 25390	TUBE - flow control valve to tube	1
9	C 23407	TUBE - bypass to return line	1
10	C 23600	TUBE - valve to tractor valve	1
11	C 26181	TUBE - heat exchanger	1
12	C 18721	HOSE - return	1
13	214- 254	CLAMP - hose	2
14	C 25392	TUBE - PTO valve to tube (M19)	1
14	C 23879	TUBE - PTO valve to tube (L19)	1
15	C 21592	SPACER - (L19)	2
16	C 25391	BRACKET - mounting (M19)	1
17	113- 2	BOLT - 1/4" - 20 x 5/8" NC hex (M19)	2
	C 18719	DECAL - valve, "slow - fast" (English)	1
	321- 4699	DECAL - valve, "slow - fast" (French)	1

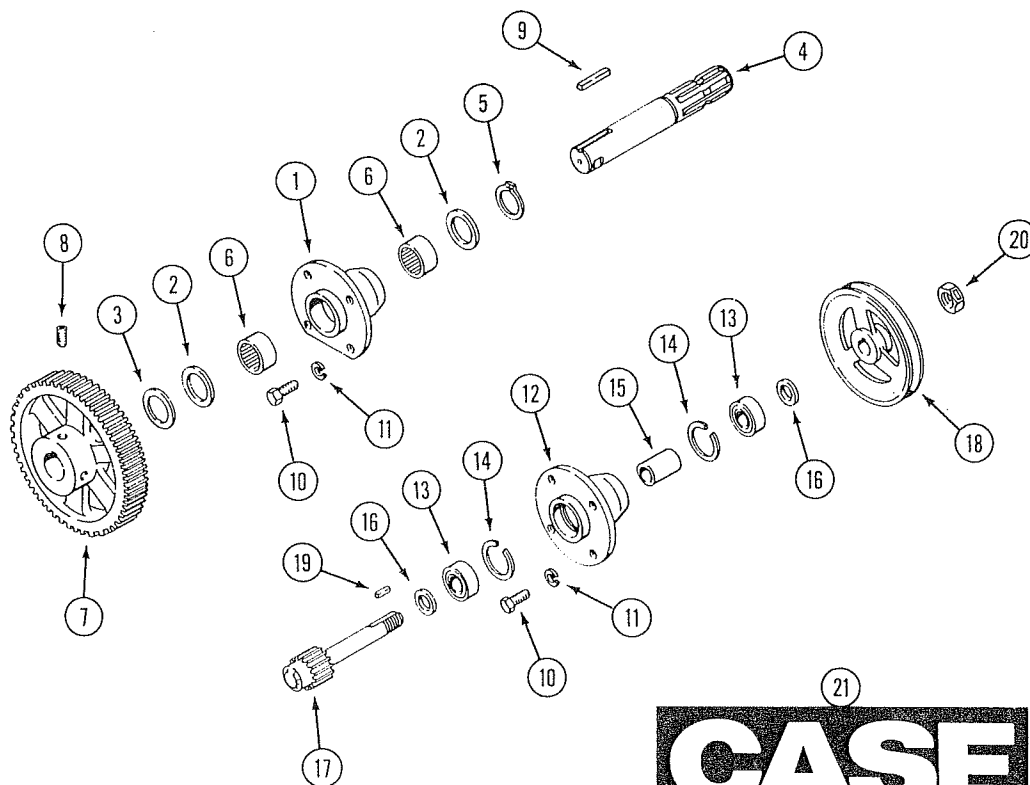
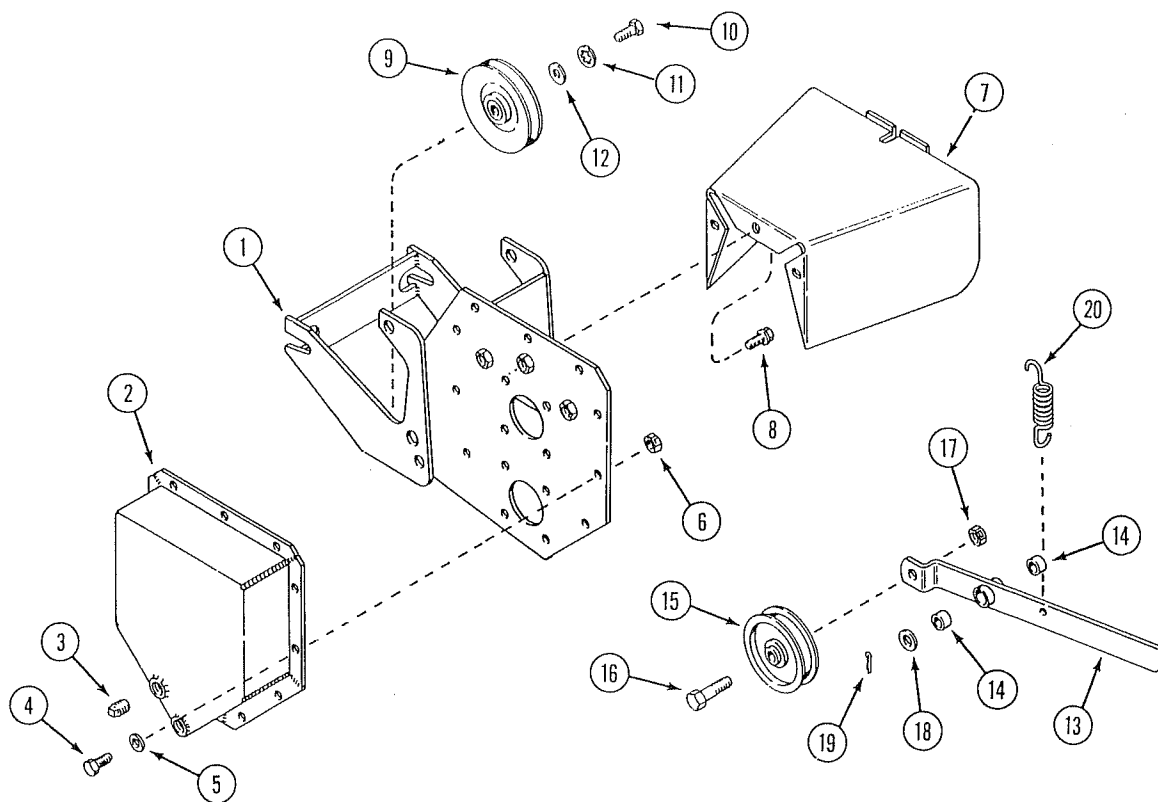


L7 HOLDING VALVE (220, 222 AND 224 ALL)
 L9 HOLDING VALVE (444 BEFORE S/N 9766840)
 M9 HOLDING VALVE (444 S/N 9766840 AND AFTER)

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24995	VALVE - holding (includes "O" ring).....	1
2	C 24990	TUBE - valve to valve (L-7)	1
2	C 24992	TUBE - valve to valve (L-9)	1
2	C 25341	TUBE - valve to valve (M9).....	1
3	C 25342	TUBE - valve to valve (M9).....	1
3	C 24991	TUBE - valve to valve (L-7)	1
3	C 24993	TUBE - valve to valve (L-9)	1
4	C 24994	TUBE - valve to motor	1
5	218- 5062	CONNECTOR - straight, male	3
6	218- 5007	"O" RING	1
7	218- 5066	CONNECTOR - straight, male	2
8	218- 5006	"O" RING	1
9	218- 5117	ELBOW - adjustable	1
10	218- 5006	"O" RING	1
11	218- 5404	CONNECTOR - straight, male	1
12	218- 5006	"O" RING	1
13	218- 5251	CONNECTOR - straight, male/female swivel	1
14	218- 5007	"O" RING	1
15	A 7623	"O" RING - end caps	2

L11 WEIGHT KIT

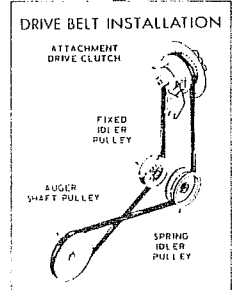
1	C 25572	BRACKET - mounting, front	1
2	C 25574	WEIGHT - 40 lb. (18 kg).	4
3	C 25791	BRACKET - mounting, rear, upper.	1
4	C 25792	BRACKET - mounting, rear, lower.	1
5	113- 417	BOLT - 1/2" - 13 x 1-1/4" hex.	2



CASE

22 **WARNING**

ROTATING MACHINE PARTS
STAY CLEAR, KEEP
SHIELDS INSTALLED TO HELP
PROTECT FROM CLOTHING
ENTANGLEMENT AND INJURY.



L29 PTO MOUNTING FRAME, SHIELD, IDLERS AND GEAR COVER

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25800	FRAME - mounting	1
2	C 25815	COVER - gear.	1
3	221- 844	PLUG - oil 1/2"	1
3	221- 843	PLUG - oil 3/8"	2
4	113- 3	BOLT - 1/4" - 20 x 3/4" hex	9
5	195- 521	WASHER - 5/16"	9
6	131- 1180	NUT - 1/4" - 20 hex.	9
7	C 25817	SHIELD - PTO.	1
8	121- 106	BOLT - 5/16" - 18 x 1/2", special	3
9	C 25370	PULLEY - "V" groove	1
10	113- 206	BOLT - 3/8" - 16 x 3/4"	1
11	193- 68	LOCK WASHER - special.	1
12	195- 103	WASHER - 3/8"	1
13	C 25822	ARM - idler	1
14	R 30880	BUSHING - sleeve	2
15	C 26090	PULLEY - flat idler	1
16	113- 412	BOLT - 1/2" - 13 x 1-3/4" hex	1
17	131- 165	NUT - 1/2" lock, hex.	1
18	195- 541	WASHER - 5/8"	1
19	132- 318	PIN - cotter 5/32" x 1"	1
20	C 16870	SPRING - tension.	1

L29 SPINDLES, DECALS AND BELT

1	C 25806	HOUSING - PTO shaft	1
2	C 25807	WASHER - thrust	2
3	195- 2131	WASHER - spacer	1
4	C 25808	SHAFT - spline	1
5	A 7409	RING - retainer.	1
6	C 25828	BEARING - roller.	2
7	C 25814	GEAR - driven	1
8	83- 68	SET SCREW - 3/8"	2
9	B 18323	KEY - 5/16" x 2"	1
10	113- 206	BOLT - 3/8" - 16 x 3/4" hex	8
11	192- 21	LOCK WASHER - 3/8"	8
12	C 17666	HOUSING - spindle	1
13	A 70280	BEARING	2
14	C 16516	RING - retaining.	2
15	C 10810	SPACER - bearing.	1
16	C 25541	WASHER - spacer	2
17	C 25810	SPINDLE - input	1
18	C 25813	PULLEY - spindle.	1
19	H 61168	KEY - 3/16" square x 7/8"	1
20	131- 1331	NUT - 3/4" - 16 lock, hex.	1
21	321- 6379	DECAL - "Case".	1
22	321- 3710	DECAL - "Warning" (English)	1
22	321- 6647	DECAL - "Warning" (French)	1
23	321- 4745	DECAL - drive belt (French)	1
23	C 17462	DECAL - drive belt (English)	1
	C 23539	BELT - drive (444, 446, 448)	1
	C 23538	BELT - drive (210, 220, 222, 224)	1

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	36628	91	7	A	70185	45	8	C	13266	49	8
	40035	11	20	A	70280	97	13	C	13266	51	7
	40035	13	20	A	72077	27	3	C	13360	47	1
	40035	15	20	A	72099	27	5	C	13385	49	6
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A	7623	83	11	C	10372	23	13	C	14200	43	6
A	7623	95	15	C	10657	25	14	C	14201	43	7
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A	7982	59B	4	C	10810	97	15	C	14222	51	39
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A	15888	91	20	C	10898	85	4	C	14223	51	37
A	21075	55	15	C	11529	25	18	C	14304	69	7
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A	24509	67	16	C	11891	91	2	C	14399	21	26
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A	27251	65	25	C	11893	91	12	C	14459	85	5
A	27251	67	25	C	11895	91	9	C	14506	29	4
A	27365	17	39	C	11901	91	13	C	14525	47	14
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A	27365	93		C	12093	61	2	C	14537	65	8
A	27891	91	25	C	12093	79	12	C	14537	67	8
A	30064	45	10	C	12102	41	22	C	14553	65	17
A	30095	53	34	C	12102	41	22	C	14565	65	4
A	30338	81	13	C	12110	45	5	C	14565	67	4
A	30881	41	10	C	12224	29	2	C	14568	83	2
A	30881	41	11	C	12551	49	25	C	14568	85	14
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A	34046	71	7	C	12552	51	26	C	14655	53	35
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A	37247	61	1	C	12718	49	36	C	14692	83	9
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A	50773	57B	16	C	13106	41	8	C	14725	81	14
A	55894	91	22	C	13106	43		C	14728	39	22
A	60273	59	1	C	13106	45		C	14729	35	17
A	60273	59B	1	C	13106	47		C	14729	37	17
A	60273	59D	1	C	13106	79		C	14730	35	17
A	61683	93	3	C	13196	49	16	C	14730	37	17
A	62079	25	15	C	13196	51	16	C	14827	61	4
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C	24813	67	6	C	25208	53	6	C	25814	97	7
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C	24814	67	5	C	25237	53	16	C	25817	97	7
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C	24816	67	3	C	25258	51	40	C	25856	41	24
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C	24820	35	21	C	25298	39	16	C	25857	41	25
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C	24821	35	20	C	25304	39	15	C	26028	39	23
C	24821	37	20	C	25305	45	22	C	26029	39	24
C	24822	35	25	C	25306	45	22	C	26058	5	13
C	24822	37	25	C	25307	35	1	C	26062	5	9
C	24827	53	20	C	25317	37	14	C	26063	5	
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C	24861	57B	3	C	25338	17		C	26181	93	11
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C	24863	55		C	25338	21		C	26185	79	24
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C	24887	25	13	C	25382	85	8	C	26266	91	27
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C	24889	65	19	C	25391	93	16	C	26278	57B	1
C	24889	67	19	C	25392	93	14	C	26282	15	6
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