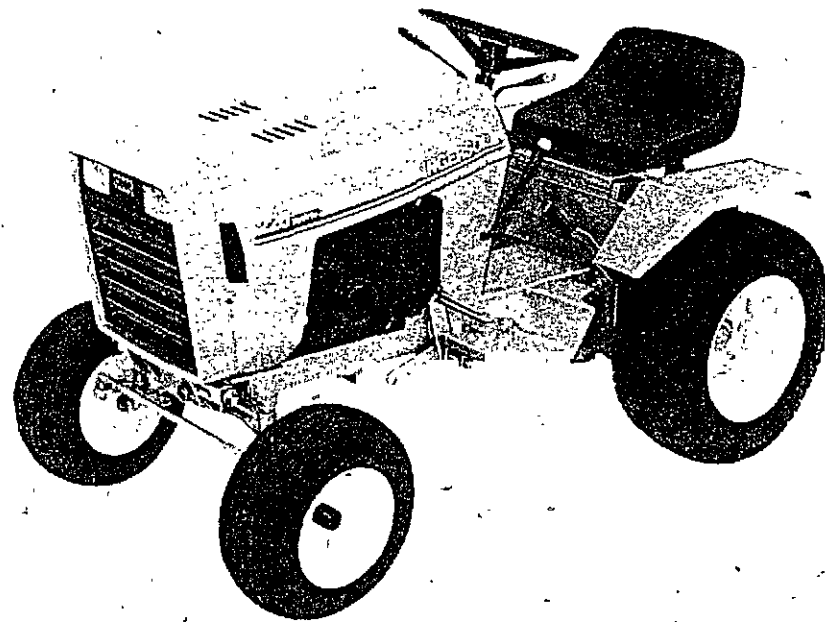


COMPACT TRACTORS
226 P.I.N. 14048500 AND AFTER
446 P.I.N. 14041700 AND AFTER
448 P.I.N. 14044240 AND AFTER
Parts Catalog No. 8-2752

NOTE: This catalog replaces
catalog 8-2751

8-90-RP-500-445



ALPHABETICAL INDEX

ENGINE SECTION

	Page	Grid		Page	Grid
Air Filter	17-23	B6-B12	Exhaust System	31	C6
Baffles and Shields	27-29	C2-C4	Fan	35	C10
Battery	69-75	F2-F8	Flywheel, Engine	5-11	A8-A14
Camshaft	5-11	A8-A14	Fuel System	17-25	B6-B14
Carburetor	17-23	B6-B12	Governor	27	C2
Choke and Throttle	25	B14	Housing, Blower	27	C2
Clutch, PTO	35	C10	Oil Pump	15	B4
Crankshaft	5-11	A8-A14	Oil Sump	15	B4
Electrical System	67-77	E14-F10	Piston and Connecting Rods	5-11	A8-A14
Engine Block	7-13	A10-B2	Starter Motor	67	E14

BASIC TRACTOR SECTION

	Page	Grid		Page	Grid
Axle, Front	43	D4	Instruments	69-75	F2-F8
Axle, Rear	63	E10	J17 Hydraulic PTO	99-101	A4-A6
Baffles and Heat Shields	27-29	C2-C4	J26 Three Point Hitch	87-89	G6-G8
Brakes	47	D8	K8 Wheel Weights	93	G12
Clutch Assembly, PTO	33-35	C8-C10	K10 Wheel Weights	93	G12
Control, Speed	55	E2	K18 Counterweight Brackets	95	G14
Decals	79-85	F12-G4	K22 Sleeve Hitch	91	G10
Electrical System	67-77	E14-F10	K24 Sleeve Hitch	91	G10
Fenders	41	D2	L7 Holding Valve	105	A10
Frame	37-39	C12-C14	L11 Weight Kit	101	A6
Grille	37-39	C12-C14	L17 Hydraulic PTO Kit	99-101	A4-A6
Hitch	59	E6	L19, M19, N19 Flow Control Kit	103	A8
Hood	37-39	C12-C14	L29 PTO	107	A12
Hydraulic System	49-61	D10-E8	Lift, Implement, Hydraulic	65	E12
Coupling, Pump Drive	57	E4	M9 Holding Valve	105	A10
Heat Exchanger	49-51	D10-D12	N9 Holding Valve	105	A10
Hoses, Lines and Fittings	49-51	D10-D12	M17, N17 Hydraulic PTO	97	A2
Motor, Hydraulic Drive	53	D14	PTO Linkage	33	C8
Pump	57	E4	Seat, Operator's	41	D2
Reservoir	49-51	D10-D12	Steering Wheel and Gear	45	D6
Valve, Hydraulic	59-61	E6-E8	Tool Box	41	D2
F27 Three Point Hitch Adapter	89	G8	Transmission	63	E10
H13 Weight Box	95	G14	Wheels, Front and Rear	47	D8

INDEX

There is an index at the front and rear of this catalog.

The front index is an alphabetical index of the major groups or assemblies.

The rear index is a numerical index of the part numbers and pages on which these numbers are shown.

ILLUSTRATION

Each illustration in this catalog shows a group of parts or components. These parts and components are aligned approximately as the parts and components on your machine. Each part and component in an illustration has a reference number. These reference numbers are in a list on the page opposite of the illustration. Next to the reference number is the part number, description and required quantity of the part shown in the illustration.

UAR - "Use as required" indicates that the part quantity is variable.

NSS - "Not sold separately" indicates that the part is only available as a component of an assembly or the part must be purchased locally. If the part is an assembly component, the description will be indented under the assembly description in the parts list.

O/L - "Obtain locally"

** - "Footnotes" are added to a part number when more information is needed for identification. They only relate to the part numbers indicated.

PARTS ORDERS

All orders must include the following information:

1. Correct part number.
2. Complete description of part or component.
3. Total quantity of each part or component.
4. Product model number.
5. All necessary product identification numbers.
6. Method for sending the parts.
7. Complete and correct address.

CATALOG REVISIONS

As the product changes, new pages will be available for your catalog. A notice will be issued.

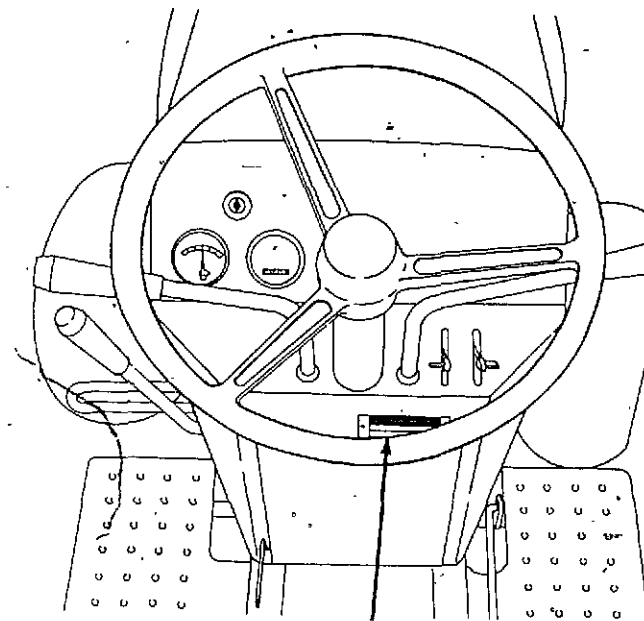
IMPORTANT: Put all revisions into the catalog as soon as possible.

RIGHT HAND AND LEFT HAND IDENTIFICATION

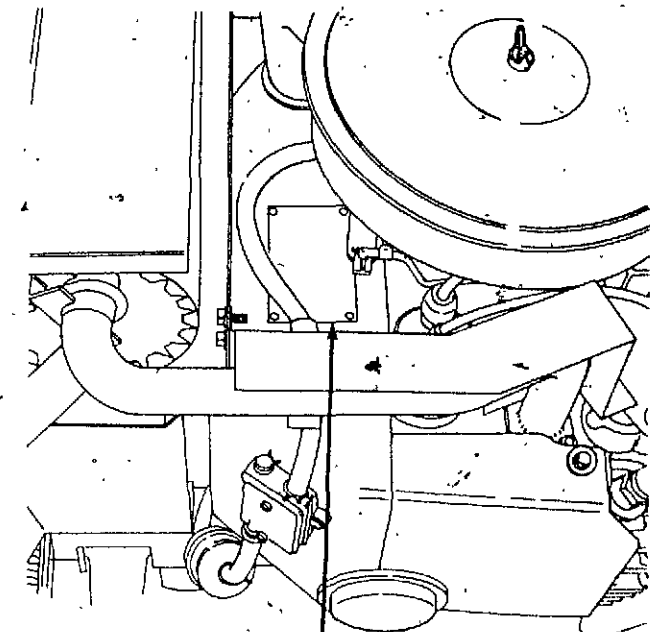
The words right hand (RH) and left hand (LH) as used in this catalog indicate the direction while you are in the operator's seat in the normal operating position.

INDENTED DESCRIPTIONS

An assembly can have many components. The components of an assembly are indicated by an indented description. The quantity for an indented part is the total needed for that complete assembly. See the example.



TRACTOR MODEL AND P.I.N.



ENGINE MODEL, SERIAL AND SPECIFICATION NUMBERS

NOTE: In this catalog there are references to serial numbers. To order the correct part use these serial numbers as a guide.

*No Longer Available
Use C33403 Short Block

REF.	PART NO.	DESCRIPTION	REQ'D
	C 55159	CYLINDER ASSY - rear steering	1
28	C 56208	SOCKET ASSY - rear cylinder	1
29	C 55956	PLUG - adjusting, socket assy	1
30	C 55957	SEAT - socket ball	2
31	C 56210	SPRING - socket	1
32	C 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	C 55889	STUD - ball, socket & cylinder	2
36	13- 410	BOLT - 1/4" x 5/8" N.C., hex	4
37	92- 4	LOCK WASHER - 1/4" SAE	4

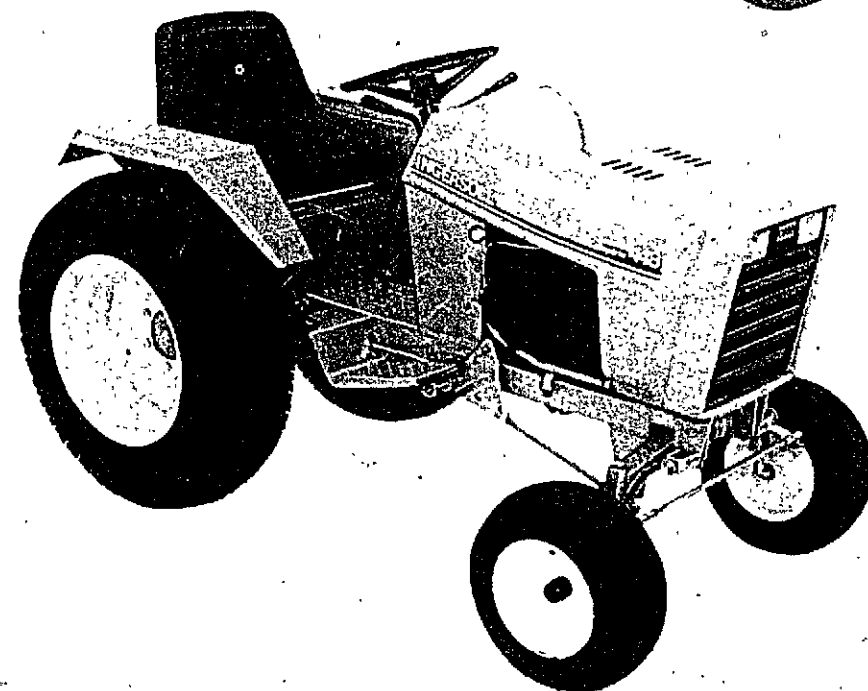
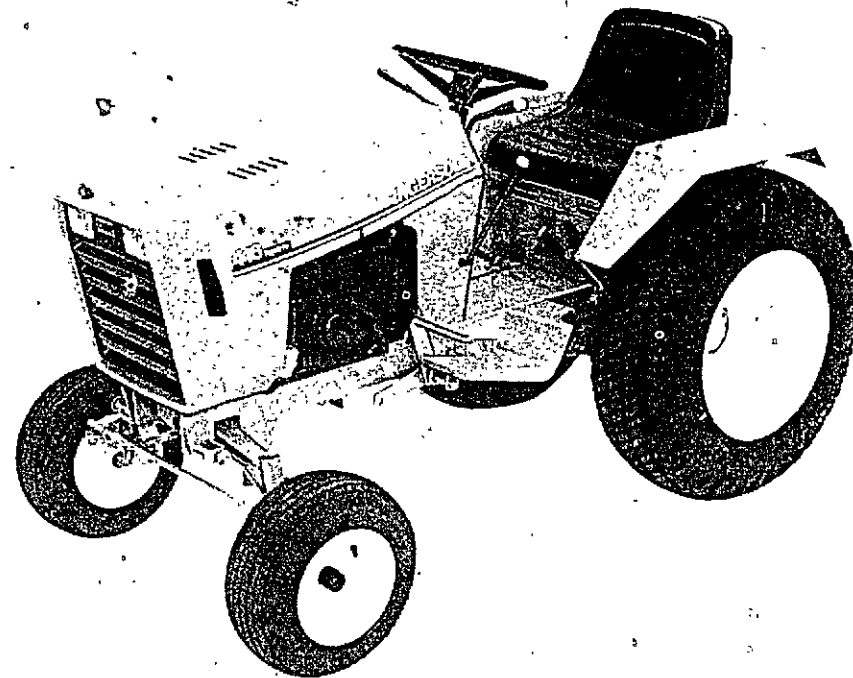
TRACTOR MODEL

ENGINE MODEL

226 before S/N 14071775 446 before S/N 14074175	NSS* ONAN B43M-GA016 SPEC. NO. 3622A
448 before S/N 14075830	NSS* ONAN B48M-GA018 SPEC. NO. 3631A
226 S/N 14071775 and after 446 S/N 14074175 and after	C29286 ONAN B43M-GA016 SPEC. NO. 4183C
448 S/N 14075830 and after	C29287 ONAN B48M-GA018 SPEC. NO. 4184A

PAINT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 28849	BLACK - semi - gloss, 12 oz spray (2 per carton)	1
2	C 28850	BLACK - semi - gloss, quart (2 per carton)	1
3	C 28851	BLACK - semi - gloss, heat resistant, 12 oz spray (2 per carton)	1
4	C 28484	POWER RED - gloss, 12 oz spray (2 per carton)	1
5	C 28485	POWER RED - gloss, quart (2 per carton)	1
6	C 30870	SILVER - gloss, 12 oz. spray (2 per carton)	1
7	C 31643	POWER RED - gloss, 1 oz touch up, (1 doz. per carton)	1

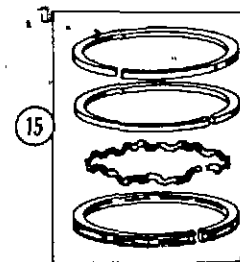
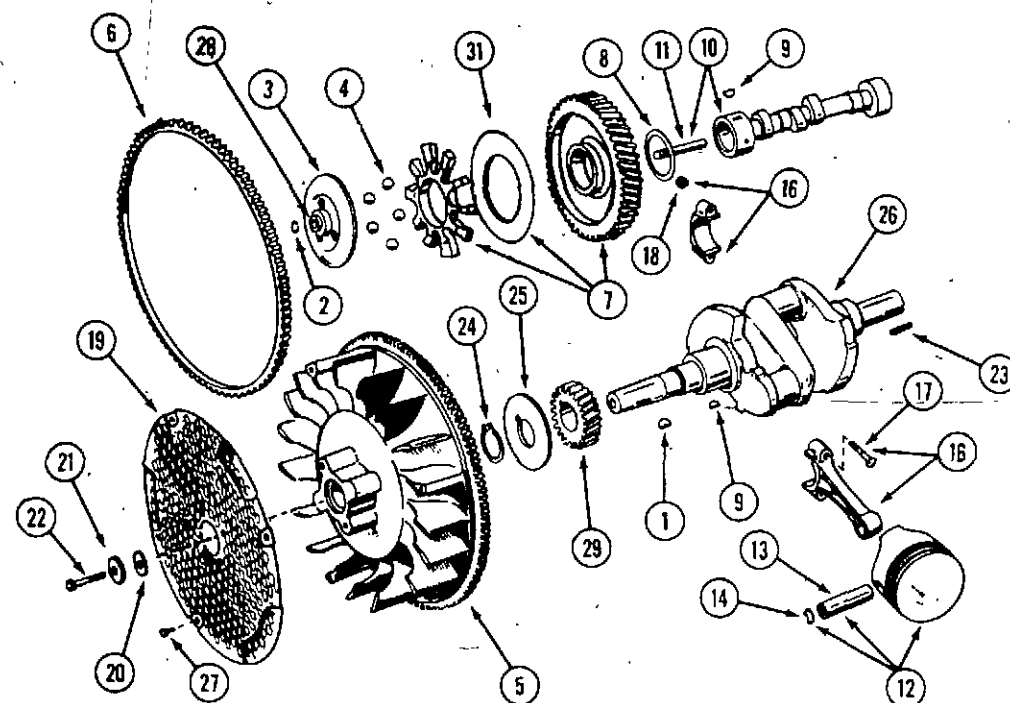


INGERSOLL

Ingersoll Equipment Co., Inc.

(ORIGINAL) PISTON, CRANKSHAFT, FLYWHEEL AND CAMSHAFT

Also See Service Short Block

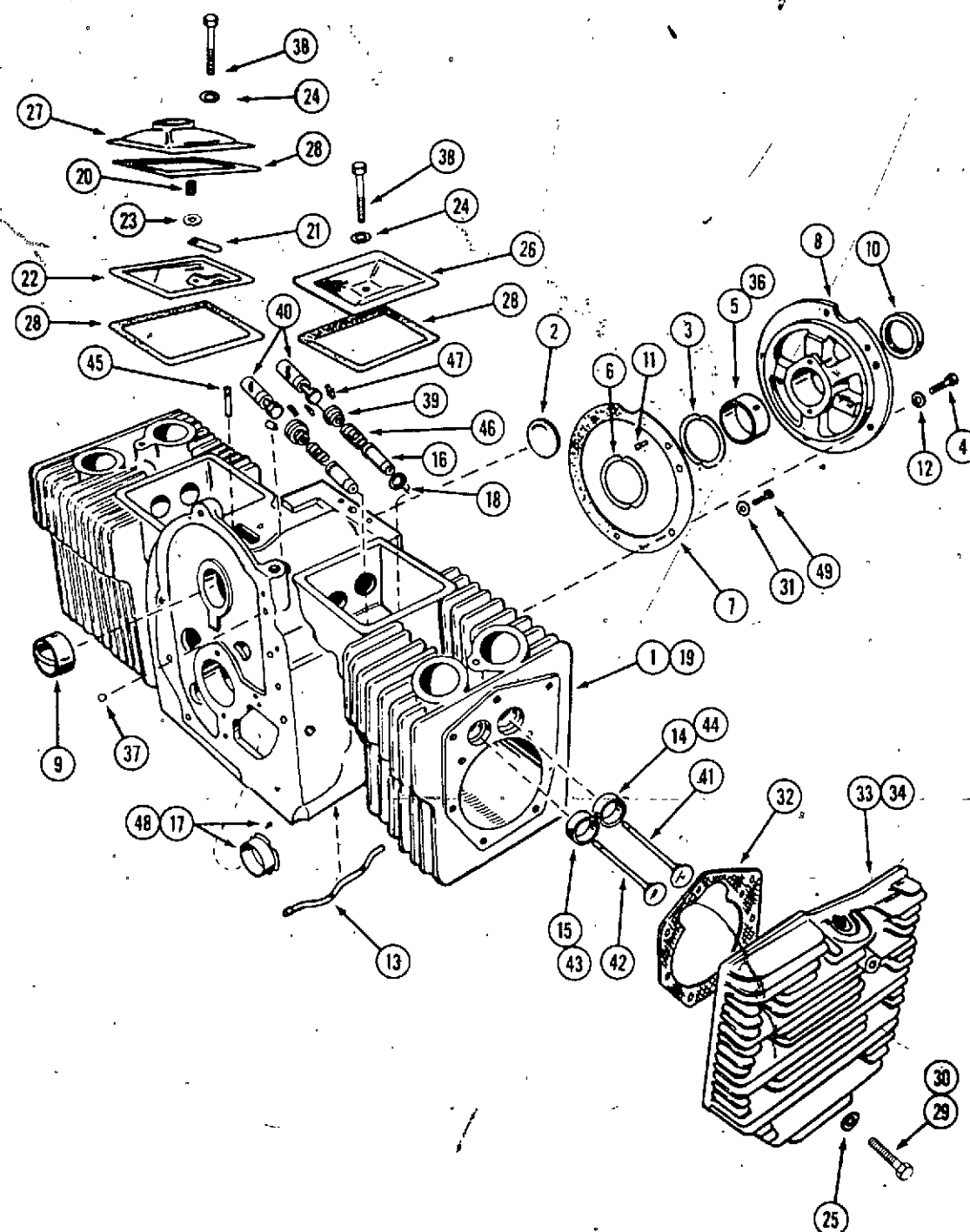


REF.	PART NO.	DESCRIPTION	REQ'D
1	126- 13	KEY - woodruff 3/16" x 5/8" (4.76 x 19.05 mm) flywheel mounting	1
2	C 20223	RING - camshaft center pin	1
3	24326	CUP - governor	1
4	211- 216	BALL - governor 9/16"	5
5	C 24943	FLYWHEEL - engine (includes ring gear and magnet ring)	5
6	C 20226	GEAR - ring, flywheel	1
7	C 22261	GEAR ASSEMBLY - camshaft (includes items 30 and 31)	1
8	C 20229	WASHER - thrust, camshaft gear	1
9	126- 9	KEY - woodruff 1/8" x 1/2" (0.13 x 12.7 mm)	2
10	C 23304	CAMSHAFT - (includes C20233 pin)	1
11	C 20233	PIN - camshaft center	1
12	C 24931	PISTON AND PIN - standard (includes item 14)	2
12	C 24932	PISTON AND PIN - .005" (0.13 mm) oversize (includes item 14)	2
12	C 24933	PISTON AND PIN - .010" (0.25 mm) oversize (includes item 14)	2
12	C 24934	PISTON AND PIN - .020" (0.51 mm) oversize (includes item 14)	2
12	C 24935	PISTON AND PIN - .030" (0.76 mm) oversize (includes item 14)	2
13	C 29972	PIN - piston	2
14	C 20241	RETAINER - piston pin	4
15	C 29739	RING SET - piston (standard)	2
15	C 24938	RING SET - piston .005" (0.13 mm) oversize	2
15	C 24939	RING SET - piston .010" (0.25 mm) oversize	2
15	C 24940	RING SET - piston .020" (0.51 mm) oversize	2
15	C 24941	RING SET - piston .030" (0.76 mm) oversize	2
16	C 29750	CONNECTING ROD ASSEMBLY - (standard) includes item 17 and 18 (226, 446)	2
16	C 29751	CONNECTING ROD ASSEMBLY - .010" (0.25 mm) undersize (226, 446)	2
16	C 20204	CONNECTING ROD ASSEMBLY - .020" (0.51 mm) undersize (226, 446)	2
16	C 20205	CONNECTING ROD ASSEMBLY - .030" (0.76 mm) undersize (226, 446)	2
16	C 25383	CONNECTING ROD ASSEMBLY - (standard) 448	2
16	C 25384	CONNECTING ROD ASSEMBLY - .010" (0.25 mm) undersize (448)	2
16	C 25385	CONNECTING ROD ASSEMBLY - .020" (0.51 mm) undersize (448)	2
16	C 25386	CONNECTING ROD ASSEMBLY - .030" (0.76 mm) undersize (448)	2
17	C 25774	BOLT - connecting rod 5/16" special N.F.	4
18	C 25775	NUT - lock, connecting rod 5/16" N.F.	4
19	C 20215	SCREEN - flywheel	1
20	C 20303	WASHER - 7/16" flywheel mounting	1
21	C 32463	LOCK WASHER - 7/16"	1
22	113- 321	BOLT - 7/16" x 4" N.C. hex, flywheel mounting	1
23	C 28315	KEY - SQUARE 1/4" x 2" (6.35 x 50.8 mm), rear crankshaft	1
24	C 20218	RETAINER - crankshaft gear	1
25	C 20219	WASHER - retaining, crankshaft gear	1
26	C 22500	CRANKSHAFT - engine (226, 446)	1
26	C 32420	CRANKSHAFT - engine (448)	1
27	182- 547	SCREW - locking 1/4" x 1/2" N.C. hex	3
28	C 24325	HUB - governor cup	2
29	C 22262	GEAR - crankshaft	1
31	C 22264	PLATE - governor ball	1

(ORIGINAL) ENGINE BLOCK AND ATTACHING PARTS

(To order complete engine see page 1)

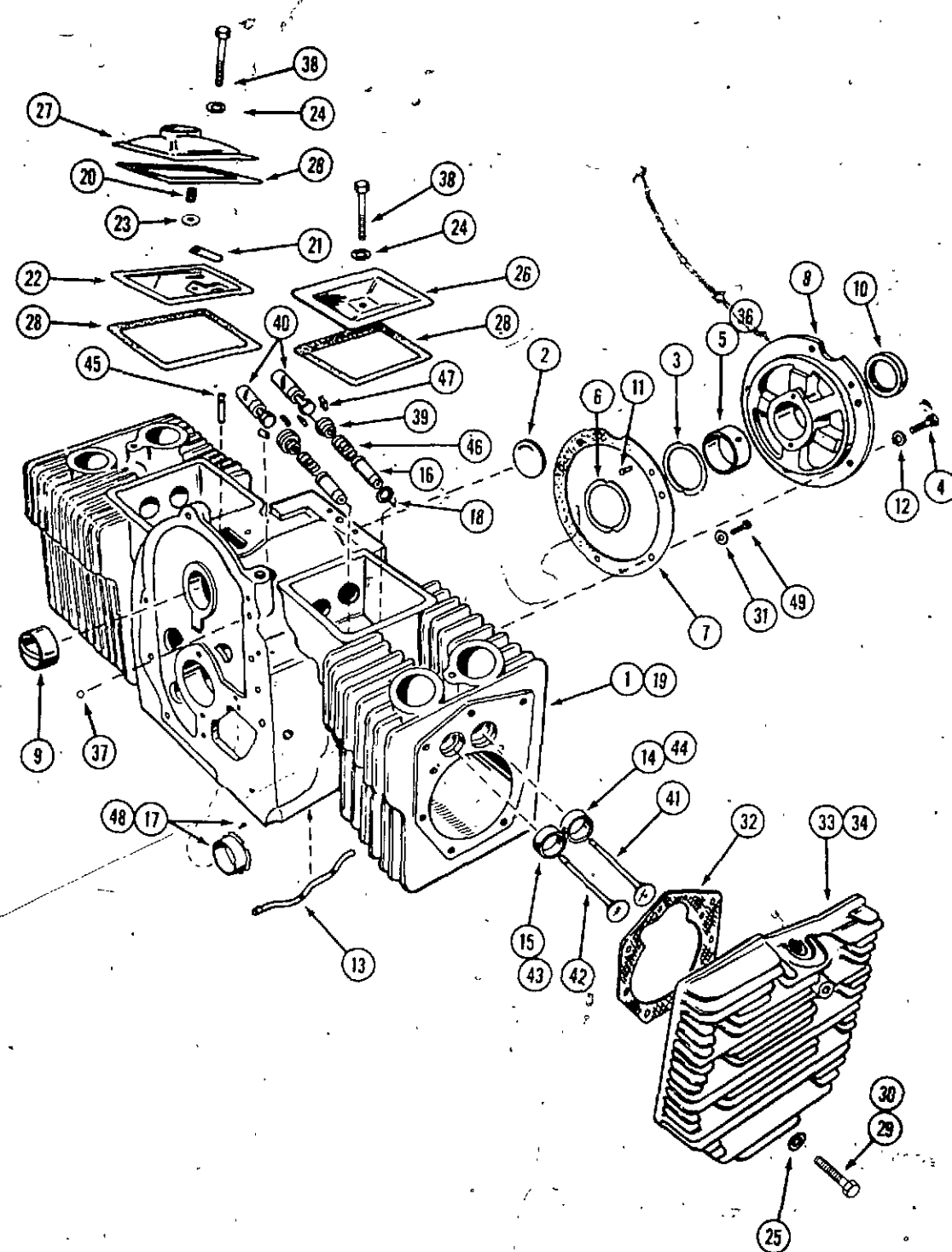
(also see service short block)



REF.	PART. NO.	DESCRIPTION	REQ'D
1	NSS	BLOCK ASSEMBLY - cylinder, standard bore (see ref. 19)	1
2	41- 26	PLUG - camshaft, expansion	1
3	C 20256	SHIM - rear bearing plate .005" (0.13 mm)	UAR
4	113- 208	BOLT - 3/8" x 1-1/4" N.C. hex	5
5	C 22618	BEARING - crankshaft, rear (standard)	1
6	C 20267	WASHER - thrust, crankshaft bearing	2
7	C 20268	GASKET - bearing plate	1
8	C 20269	PLATE - bearing (does not include bearings)	1
9	C 20270	BEARING - camshaft 3/4" (service part is 5/16")	2
10	C 20271	SEAL - bearing plate	1
11	C 20272	PIN - main bearing stop	4
12	192- 21	LOCK WASHER - 3/8" bearing plate	5
13	C 24946	TUBE - oil, crankcase	1
14	C 20287	INSERT - valve seat, intake	2
15	C 29974	INSERT - valve seat, exhaust	2
16	C 20292	GUIDE - valve	4
17	C 20295	BEARING - crankshaft front (standard)	1
18	C 20302	GASKET - valve guide, intake	2
19	NSS *	BLOCK ASSEMBLY - short (226 and 446) (includes: cylinder and crankcase, all bearings, crankshaft, camshaft, timing gear, governor gear case, connecting rods, pistons, piston rings, valves, oil pump and breather tube)	1
19	NSS *	BLOCK ASSEMBLY - short (448) (includes: cylinder and crankcase, all bearings, crankshaft, camshaft, timing gear, governor gear case, connecting rods, pistons, piston rings, valves, oil pump and breather tube)	1
20	C 20243	SPRING - breather valve	1
21	C 20244	VALVE - breather	1
22	C 20245	BAFFLE - breather	1
23	195- 2010	WASHER - 1/4"	1
24	C 20247	WASHER - 1/4" copper	2
25	C 20248	WASHER - 5/16"	18
26	C 20250	COVER - valve	1
27	C 24948	COVER - valve (with breather port)	1
28	C 20251	GASKET - valve cover	3
29	26- 532	BOLT - head, 5/16" - 18 x 2"	6
30	26- 526	BOLT - head, 5/16" - 18 x 1-5/8"	12
31	C 20574	WASHER - copper 3/8"	2
32	C 29979	GASKET - cylinder head	2
33	C 24949	HEAD - L.H. No. 2	1
34	C 24950	HEAD - R.H. No. 1	1
36	C 22619	BEARING - crankshaft, rear .002" (0.05 mm) undersize	1
36	C 22620	BEARING - crankshaft, rear .010" (0.25 mm) undersize	1
36	C 22621	BEARING - crankshaft, rear .020" (0.51 mm) undersize	1
37	211- 7	PLUG - core hole	1
38	113- 132	BOLT - valve cover 1/4" x 1-3/4" hex	2
39	C 20517	ROTATOR - valve spring	4
40	C 20276	TAPPET - valve (standard)	4

*See service short block use C33403

(ORIGINAL) ENGINE BLOCK AND ATTACHING PARTS
(also see service short block)



REF.	PART NO.	DESCRIPTION	REQ'D
40	C 20471	TAPPET - valve .002" (0.05 mm) oversize	4
40	C 20277	TAPPET - valve - .005" (0.13 mm) oversize	4
41	C 29754	VALVE - intake	2
42	C 29755	VALVE - exhaust	2
43	C 29975	INSERT - valve seat, exhaust .002" (0.05 mm) oversize	2
43	C 29976	INSERT - valve seat, exhaust .005" (0.13 mm) oversize	2
43	C 29977	INSERT - valve seat, exhaust .010" (0.25 mm) oversize	2
43	C 29978	INSERT - valve seat, exhaust .025" (0.64 mm) oversize	2
44	C 20288	INSERT - valve seat, intake .002" (0.05 mm) oversize	2
44	C 20289	INSERT - valve seat, intake .005" (0.13 mm) oversize	2
44	C 20290	INSERT - valve seat, intake .010" (0.25 mm) oversize	2
44	C 20291	INSERT - valve seat, intake .025" (0.64 mm) oversize	2
45	C 20412*	TUBE - fuel pump vacuum	1
45	C 29980*	PLUG - breather hole	1
46	C 20293	SPRING - valve	4
47	C 20294	LOCK - valve and spring	8
48	C 20296	BEARING - crankshaft, front .002" (0.05 mm) undersize	1
48	C 20297	BEARING - crankshaft, front .010" (0.25 mm) undersize	1
48	C 20298	BEARING - crankshaft, front .020" (0.51 mm) undersize	1
48	C 20299	BEARING - crankshaft, front .030" (0.76 mm) undersize	1
49	113- 204	BOLT - 3/8" x 1/2" N.C. hex	2
	C 29982	KIT - gasket, carbon removal (includes: valve cover gaskets, cylinder head gaskets, and intake manifold gaskets)	1
	C 29981	KIT - gasket, complete engine (only includes gaskets)	1

*Use before S/N:

**Use S/N and after:

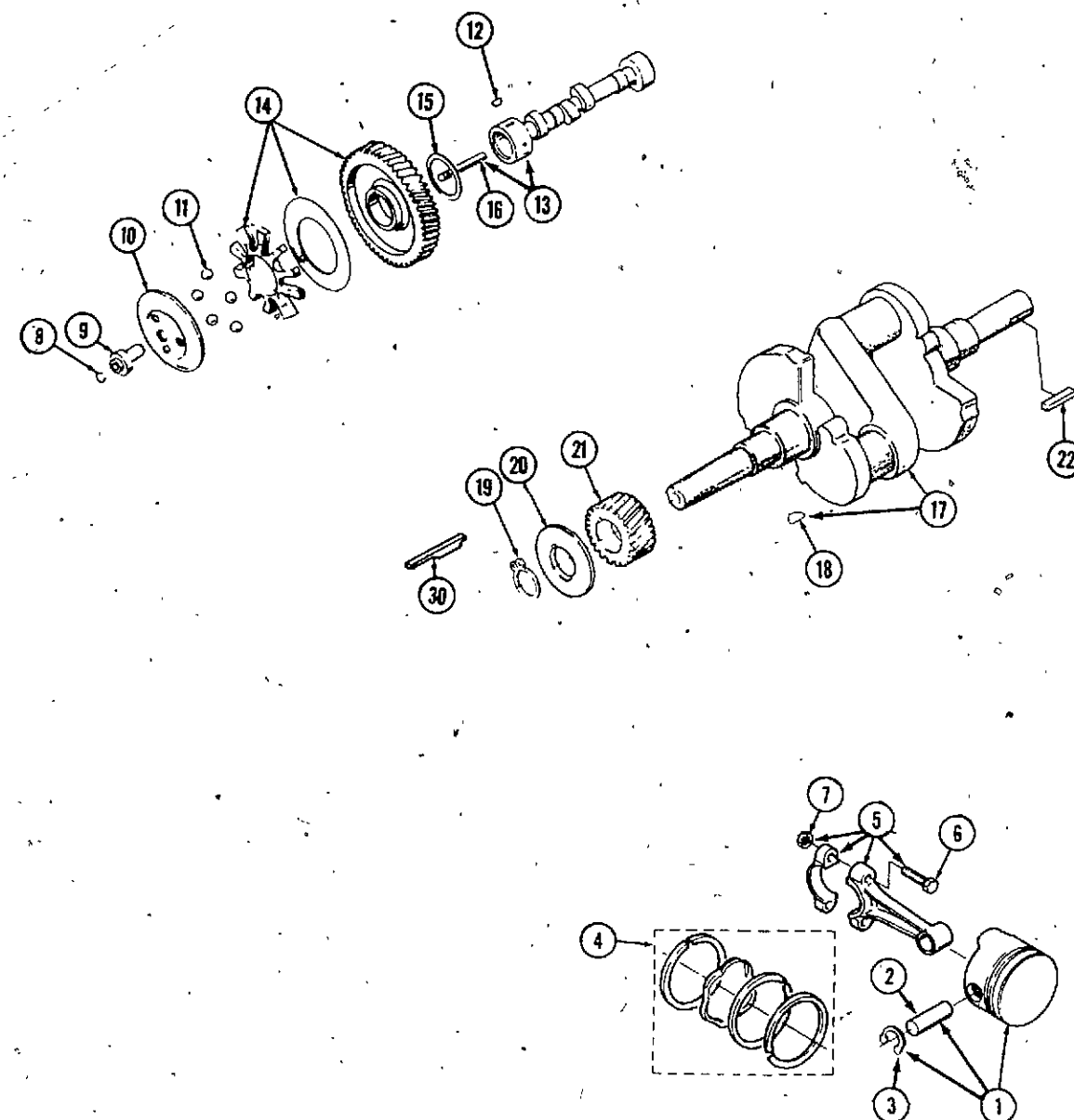
226-14071775

446-14074175

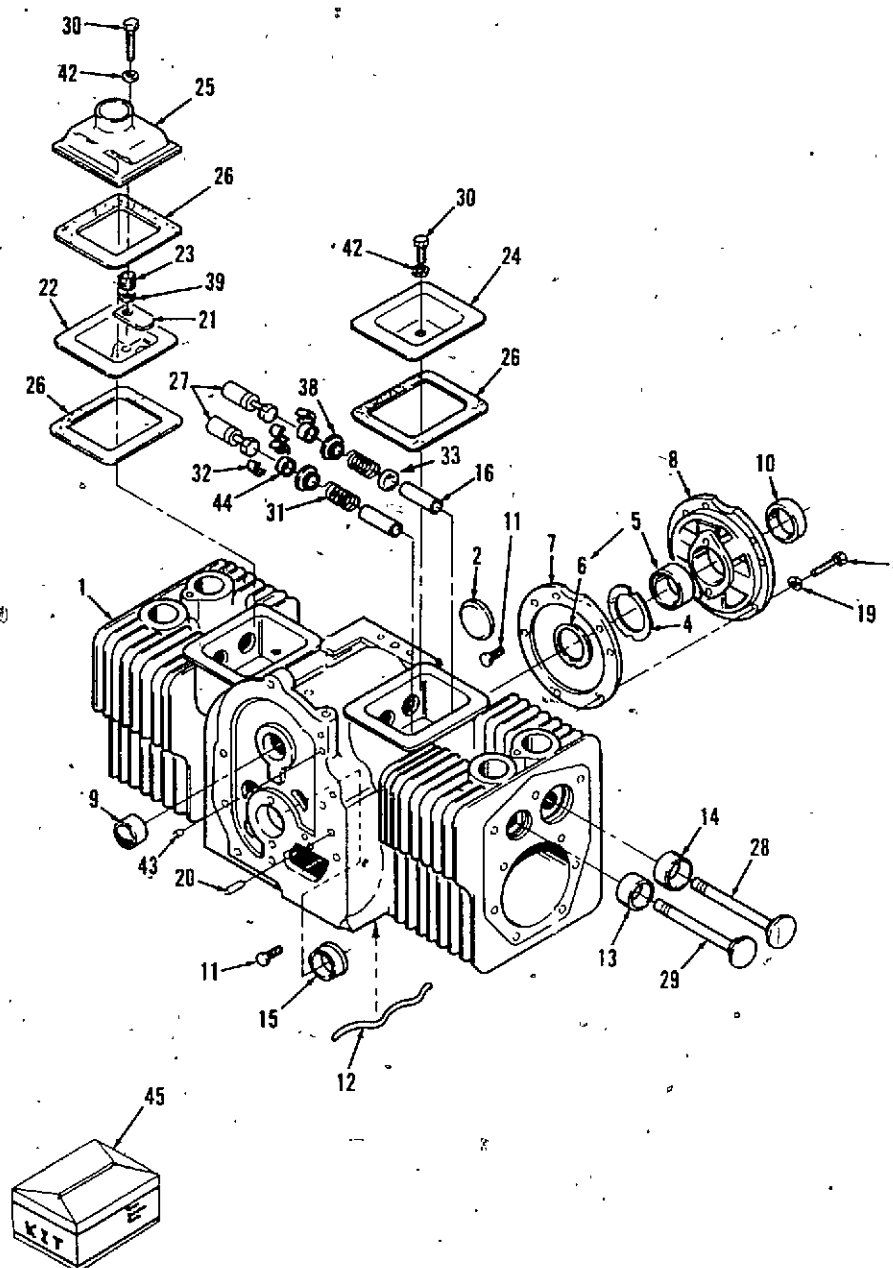
448-14075830

SERVICE SHORT BLOCK
ONAN #110-3424-16

PISTON, CRANKSHAFT, FLYWHEEL AND CAMSHAFT



REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24931	PISTON - standard (includes pin and retaining ring)	2
1	C 24932	PISTON - .005" (0.13 mm) oversize (includes pin and retaining ring)	2
1	C 24933	PISTON - .010" (0.25 mm) oversize (includes pin and retaining ring)	2
1	C 24934	PISTON - .020" (0.51 mm) oversize (includes pin and retaining ring)	2
1	C 24935	PISTON - .030" (0.76 mm) oversize (includes pin and retaining ring)	2
2	C 29972	PIN - piston	2
3	C 20241	RING - retaining	4
4	C 29739	RING SET - piston (standard)	2
4	C 24938	RING SET - piston .005" (0.13 mm) oversize	2
4	C 24939	RING SET - piston .010" (0.25 mm) oversize	2
4	C 24940	RING SET - piston .020" (0.51 mm) oversize	2
4	C 24941	RING SET - piston .030" (0.76 mm) oversize	2
5	C 25383	CONNECTING ROD - (standard) includes nut & bolt	2
5	C 25384	CONNECTING ROD - .010" (0.25 mm) undersize, includes nut & bolt	2
5	C 25385	CONNECTING ROD - .020" (0.51 mm) undersize, includes nut & bolt	2
5	C 25386	CONNECTING ROD - .030" (0.76 mm) undersize, includes nut & bolt	2
6	C 25774	BOLT - connecting rod 5/16" special N.F.	4
7	C 25775	NUT - lock, connecting rod 5/16" N.F.	4
8	C 20223	RING - retaining	1
9	C 24325	HUB - governor cup	1
10	C 24326	CUP - governor	1
11	211- 216	BALL - governor	5
12	126- 9	KEY - woodruff 1/8" x 1/2"	1
13	C 32468	CAMSHAFT - (includes pin)	1
14	C 22261	GEAR ASSEMBLY - camshaft	1
15	C 20229	WASHER - thrust	1
16	C 20233	PIN - center	1
17	C 32470	CRANKSHAFT - engine	1
18	126- 9	KEY - woodruff, crankshaft gear	1
19	C 20218	RING - retaining	1
20	C 20219	WASHER - special	1
21	C 22262	GEAR - crankshaft	1
22	C 28321	KEY - clutch 1/4" square by 3/4"	1
30	C 32288	KEY - 1/4" x 2" special, flywheel	1



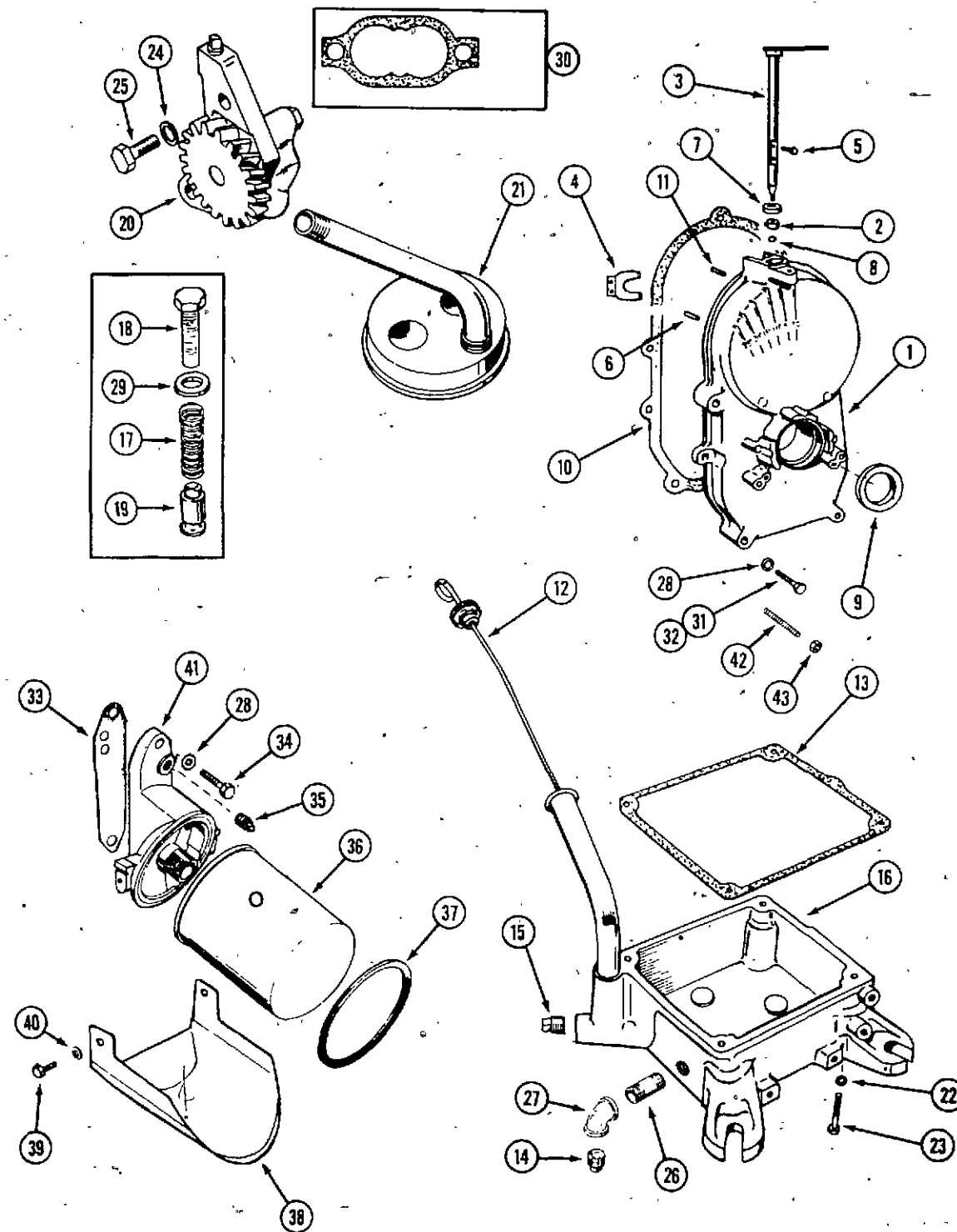
MODEL 226, 446 AND 448 COMPACT TRACTORS

SERVICE SHORT BLOCK
ONAN #110-3424-16
CYLINDER BLOCK

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 33403	BLOCK ASSEMBLY - short, includes cylinder and crankcase, all bearings, bearing plate, crankshaft, camshaft, timing gear, connecting rods, pistons, piston rings, valves, oil pump, gear case and breather tube (does not include gasket set)	1
2	41- 26	PLUG - welch	1
3	113- 208	BOLT - 3/8" - 16 x 1-1/4"	5
4	C 20256	SHIM - end play, crankshaft (.005")	1
5	C 22618	BEARING - crankshaft, rear (includes thrust washer) (standard)	1
5	C 22619	BEARING - crankshaft, rear .002" (0.05 mm) undersize	1
5	C 22620	BEARING - crankshaft, rear .010" (0.25 mm) undersize	1
5	C 22621	BEARING - crankshaft, rear .020" (0.51 mm) undersize	1
5	C 22622	BEARING - crankshaft, rear .030" (0.76 mm) undersize	1
6	C 20267	WASHER - thrust	2
7	C 20268	GASKET - bearing plate	1
8	C 20269	PLATE - bearing rear	1
9	C 20270	BEARING - camshaft 3/4" length (service part is 5/16" length)	2
10	C 20271	SEAL - oil, crankshaft rear	1
11	C 20272	PIN - drive, bearing stop	4
12	C 24946	TUBE - oil	1
13	C 29974	INSERT - valve seat, exhaust (standard)	2
13	C 29975	INSERT - valve seat, exhaust .002" (0.05 mm) oversize	2
13	C 29976	INSERT - valve seat, exhaust .005" (0.13 mm) oversize	2
13	C 29977	INSERT - valve seat, exhaust .010" (0.25 mm) oversize	2
13	C 29978	INSERT - valve seat, exhaust .025" (0.64 mm) oversize	2
14	C 20287	INSERT - valve seat, intake (standard)	2
14	C 20288	INSERT - valve seat, intake .002" (0.05 mm) oversize	2
14	C 20289	INSERT - valve seat, intake .005" (0.13 mm) oversize	2
14	C 20290	INSERT - valve seat, intake .010" (0.25 mm) oversize	2
14	C 20291	INSERT - valve seat, intake .025" (0.64 mm) oversize	2
15	C 20295	BEARING - crankshaft, front, flanged (standard)	1
15	C 20296	BEARING - crankshaft, front .002" (0.05 mm) undersize	1
15	C 20297	BEARING - crankshaft, front .010" (0.25 mm) undersize	1
15	C 20298	BEARING - crankshaft, front .020" (0.51 mm) undersize	1
15	C 20299	BEARING - crankshaft, front .030" (0.76 mm) undersize	1
16	C 32274	GUIDE - valve, exhaust	2
16	C 32275	GUIDE - valve, intake	2
19	192- 21	LOCK WASHER - 3/8"	5
20	C 23320	PIN - alignment, gear cover	2
21	C 20244	REED - breather	1
22	C 20245	BAFFLE - breather	1
23	C 20243	SPRING - breather	1
24	C 20250	COVER - valve	1
25	C 24948	COVER - valve (with breather port)	1
26	C 20251	GASKET - valve cover	2
27	C 20276	TAPPET - valve (standard)	4
27	C 20471	TAPPET - valve .002 (0.05 mm) oversize	4
27	C 20277	TAPPET - valve .005 (0.13 mm) oversize	4
28	C 32272	VALVE - intake	2
29	C 32273	VALVE - exhaust	2
30	113- 132	BOLT - 1/4" - 20 x 1-3/4"	2
31	C 32276	SPRING - valve	4
32	C 32277	LOCK - valve and spring	8
33	C 32278	SEAL - intake valve	2
38	C 32281	RETAINER - valve spring	4
39	195- 2010	WASHER - 1/4"	1
42	C 20247	WASHER - 1/4" copper	2
43	211- 7	PLUG - core hole	1
44	C 32282	CAP - valve	4
45	C 29981	KIT - gasket, complete engine (does not include bearings)	1
45	C 29982	KIT - gasket, (carbon removal/valve grind)	1

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August 1990

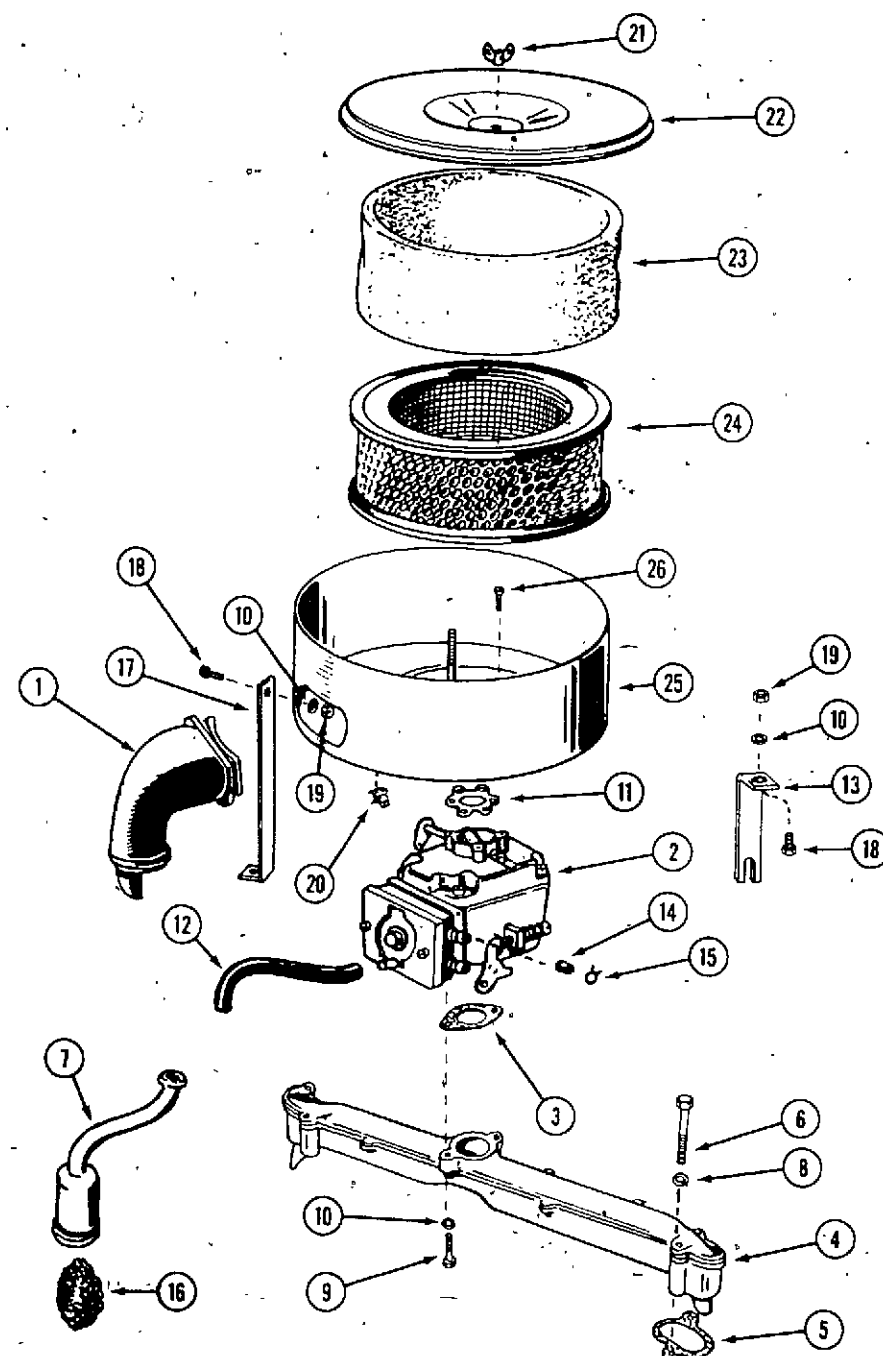


OIL SUMP, OIL PUMP AND GEAR COVER

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 29983	COVER ASSEMBLY - gear	1
2	C 20305	BEARING - governor shaft	1
3	C 22632	SHAFT AND ARM ASSEMBLY - governor	1
4	C 20307	Yoke - governor shaft	1
5	182- 84	SCREW - yoke retaining	2
6	C 20309	PIN - governor, cup stop	1
7	C 20310	SEAL - oil, governor shaft	1
8	211- 5	BALL - governor shaft bearing	1
9	C 20312	SEAL - gear cover	1
10	C 20313	GASKET - gear cover	1
11	C 23320	PIN - gear cover 5/16" x 1-1/8"	2
12	C 24958	DIPSTICK - oil level indicator	1
13	C 29984	GASKET - oil pan	1
14	NSS	PLUG - oil sump 1/2" square head (use 221-844)	1
15	211- 844	PLUG - oil sump, 1/2" socket head	1
16	C 22633	SUMP - oil	1
17	C 20320	SPRING - oil bypass	1
18	114- 200	BOLT - oil bypass 3/8" x 1" N.C. hex	1
19	C 20322	VALVE - oil bypass	1
20	C 29734	PUMP - oil	1
21	C 23321	INTAKE - oil pump (includes cup, screen and pipe)	1
22	192- 21	LOCK WASHER - 3/8"	4
23	113- 257	BOLT - 3/8" x 2-1/2" N.C. hex	4
24	192- 19	LOCK WASHER - 1/4"	2
25	113- 4	BOLT - 1/4" x 1" N.C. hex	2
26	221- 1190	NIPPLE - oil drain	1
27	221-1377	ELBOW - oil drain	1
28	C 20331	WASHER - 5/16" copper	7
29	C 20574	WASHER - 3/8" copper	1
30	C 20325	KIT - gasket, oil pump	1
31	113- 120	BOLT - 5/16" x 1-3/4"	4
32	26- 544	BOLT - 5/16" x 2-3/4"	1
33	C 32462	GASKET - oil filter adapter	1
34	113- 103	SCREW - 5/16" - 18 x 1"	2
35	221- 1849	PLUG - pipe	1
36	C 26191	FILTER - oil	1
37	NSS	SEAL - oil filter (no longer available)	1
38	C 25389	DRAIN - oil filter	1
39	182- 525	SCREW - No. 10-32 x 3/8"	2
40	192- 18	LOCK WASHER - No. 10	2
41	C 20565	ADAPTER - oil filter	1
42	C 29985	STUD - gear cover	1
43	131- 911	NUT - 5/16" - 18	1

CARBURETOR, AIR FILTER AND MANIFOLD

Use before S/N:
 226-14071775
 446-14074175
 448-14075830



REF.	PART NO.	DESCRIPTION	REQ'D
1	C 20387	TUBE - air intake	1
2	C 27507	CARBURETOR AND FUEL PUMP ASSEMBLY - (repairs page 21)	1
3	C 29953	GASKET - carburetor mounting	1
4	C 28720	MANIFOLD - engine intake	1
5	C 26202	GASKET - intake manifold	2
6	113- 121	BOLT - manifold 5/16" x 2"	4
7	C - 24927	HOSE - breather	1
8	192- 20	LOCK WASHER - 5/16"	4
9	113- 65	BOLT - 1/4" x 1-3/4" N.C. hex	2
10	192- 19	LOCK WASHER - 1/4"	3
11	C 20396	GASKET - air cleaner mounting	1
12	C 23300	HOSE - fuel pump	1
13	C 24929	BRACKET - support	1
14	C 20411	CAP - fuel pump	1
15	C 32376	CLAMP - hose 7/16"	1
16	C 29948	FILTER - breather	1
17	C 20393	SUPPORT - air cleaner	1
18	113- 1	BOLT - 1/4" x 1/2" N.C. hex	1
19	129- 101	NUT - 1/4" N.C. hex	1
20	C 20407	RETAINER - choke cable	2
21	C 26703	NUT - wing 1/4"	1
22	C 20399	COVER - air cleaner	1
23	C 20405	PRECLEANER	1
24	C 20398	ELEMENT - air cleaner	1
25	C 20397	HOUSING - air cleaner	1
26	182- 525	SCREW - No. 10 x 3/8" round head	2
	C 22947	TIE - breather tube	1

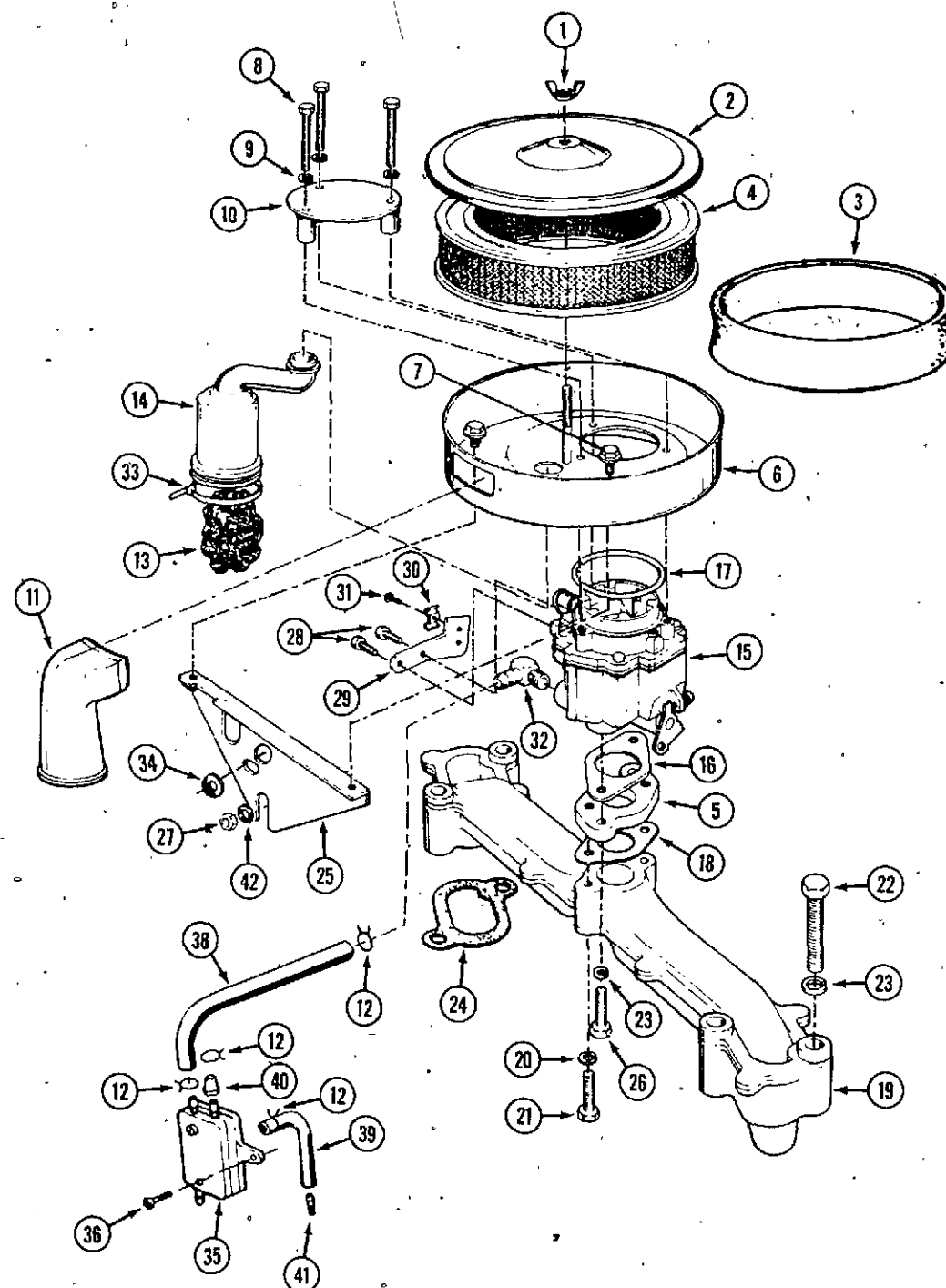
CARBURETOR, AIR FILTER, MANIFOLD AND FUEL PUMP

Use S/N and after:

226-14071775

446-14074175

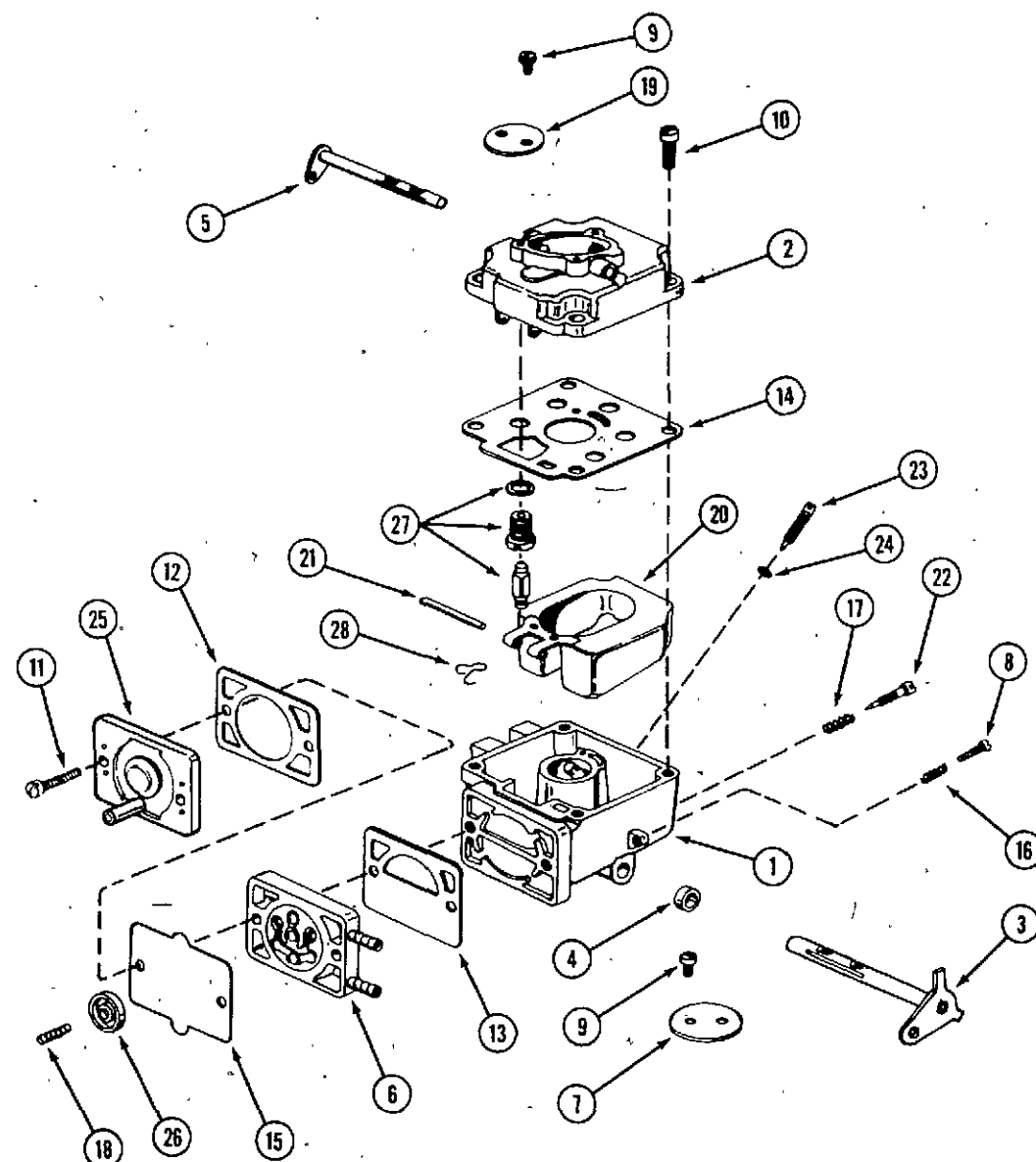
448-14075830



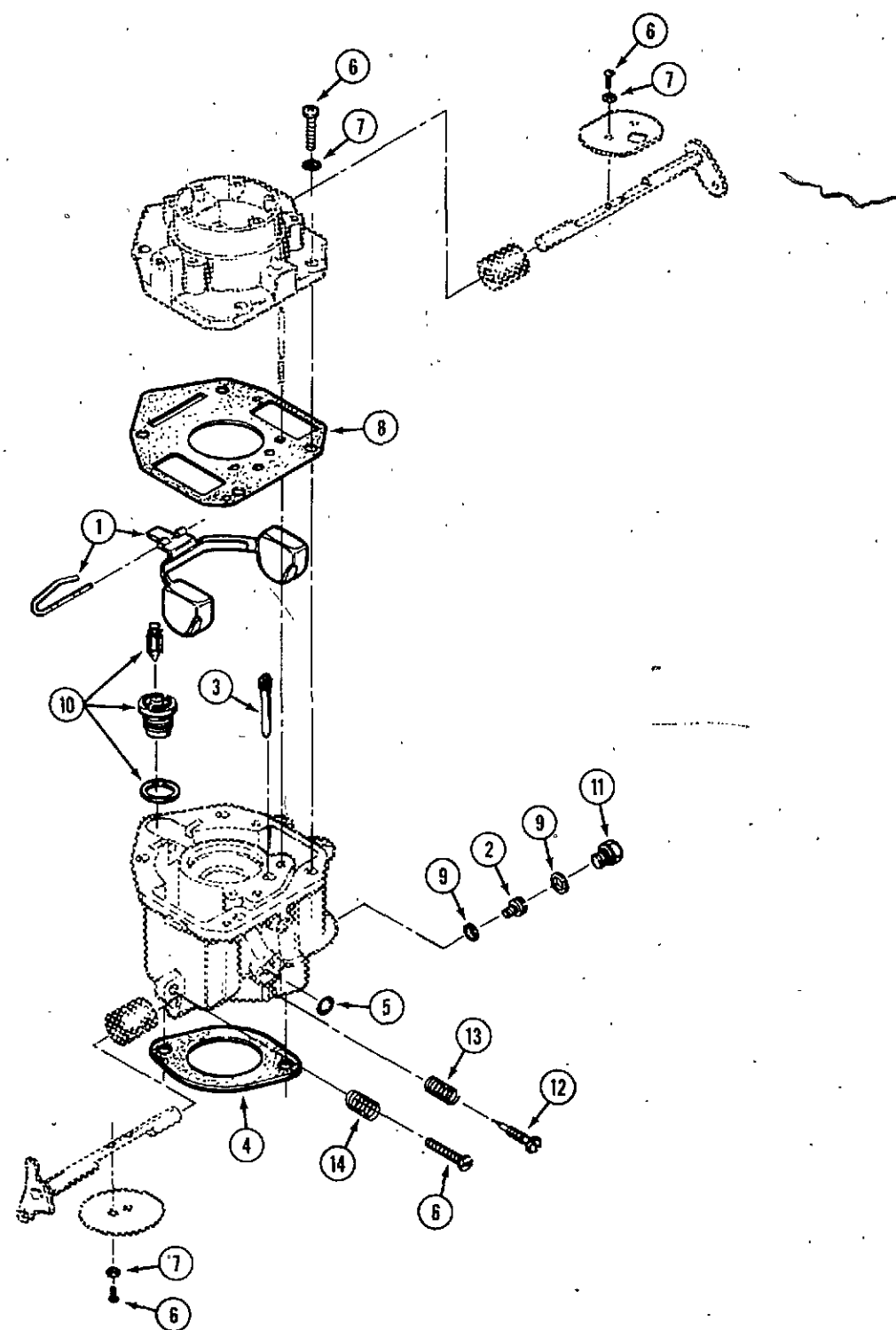
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26703	NUT - wing	1
2	C 29943	COVER - air cleaner	1
3	C 22581	PRECLEANER	1
4	C 22424	ELEMENT - air cleaner	1
5	C 29952	ADAPTER - carburetor	1
6	C 29945	HOUSING - air cleaner	1
7	187- 1036	SCREW - tapping 1/4" - 20 x 1/2"	2
8	182- 152	SCREW - No. 10 - 32 x 1-1/2"	3
9	195- 516	WASHER	3
10	C 29946	DEFLECTOR - air	1
11	C 29947	TUBE - air intake	1
12	214- 252	CLAMP - 1/2"	1
13	C 29948	FILTER - breather tube	1
14	C 29949	TUBE - crankcase breather	1
15	C 29868	CARBURETOR - fuel (226, 446) (repairs page 23)	1
15	C 29869	CARBURETOR - fuel (448) (repairs page 23)	1
16	C 29969	GASKET - carburetor mounting	2
17	C 29944	SEAL - "O" ring	1
18	C 29953	GASKET - adapter to manifold	1
19	C 28720	MANIFOLD - intake	1
20	192- 19	LOCK WASHER - 1/4"	2
21	113- 65	BOLT - 1/4" - 20 x 1-3/8"	2
22	113- 121	BOLT - 5/16" - 18 x 2"	4
23	92- 5	LOCK WASHER - 5/16"	6
24	C 26202	GASKET - manifold	2
25	C 29955	SUPPORT - air cleaner	1
26	113- 103	BOLT - 5/16" - 18 x 1"	2
27	131- 911	NUT - 5/16" - 18	1
28	C 22369	SCREW - No. 10 - 32 x 5/16"	2
29	C 29957	BRACKET - choke cable	1
30	C 29506	CLIP - choke cable	1
31	187- 1511	SCREW - No. 10 - 32 x 1/2"	1
32	C 10678	ELBOW - hose 90°	1
33	C 22947	TIE	1
34	C 30033	GROMMET - rubber	1
35	C 29959	PUMP - fuel	1
36	182- 559	SCREW - tapping, No. 10 x 3/4"	2
38	C 28937	HOSE - fuel 16" (cut to length)	1
39	C 28937	HOSE - vacuum (cut to length)	1
40	C 20411	CAP - fuel outlet	1
41	C 20412	TUBE - vacuum port	1
42	195- 102	WASHER	1

C27507 CARBURETOR AND FUEL PUMP ASSEMBLY

Use before S/N:
 226-14071775
 446-14074175
 448-14075830



REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	BODY ASSEMBLY - carburetor (order C27507 carburetor)	1
2	NSS	SLEEVE ASSEMBLY - carburetor (order C27507 carburetor)	1
3	C 20425	SHAFT - throttle (See kit below)	1
4	NSS	PACKING - shaft (See kit below)	1
5	C 20427	SHAFT - choke	1
6	C 20428	VALVE - plate assembly (See kit below)	1
7	C 20429	PLATE - throttle	1
8	C 20430	SCREW - throttle stop	1
9	C 20431	SCREW - plate mounting (See kit below)	4
10	C 20432	SCREW - bowl cover mounting	4
11	C 20433	SCREW - pump cover	2
12	NSS	GASKET - cover to valve plate (See kit below)	1
13	NSS	GASKET - pump cover (See kit below)	1
14	NSS	GASKET - sleeve assembly (See kit below)	1
15	C 20437	DIAPHRAGM - fuel pump (See kit below)	1
16	C 20438	SPRING - screw, throttle stop	1
17	C 20439	SPRING - idle needle (See kit below)	1
18	C 20440	SPRING - diaphragm, fuel pump (See kit below)	1
19	C 20441	PLATE - choke	1
20	C 27506	FLOAT ASSEMBLY - carburetor	1
21	C 20443	PIN - float (See kit below)	1
22	C 20444	NEEDLE - idle adjust (See kit below)	1
23	C 20445	NEEDLE ASSEMBLY - power	1
24	C 20446	"O" RING - needle assembly (See kit below)	1
25	C 20447	COVER - fuel pump	1
26	C 20448	PLATE - spring, fuel pump (See kit below)	2
27	C 20449	INLET - needle and seat assembly	1
28	C 20450	RETAINER - float pin	1
	C 24665	KIT - gasket (includes items 4, 12, 13, 14, 15 and 24)	1
	C 24666	KIT - repair (includes items 3, 6, 9, 17, 18, 21, 22, 26, 27 and gasket kit)	1

**CARBURETOR**

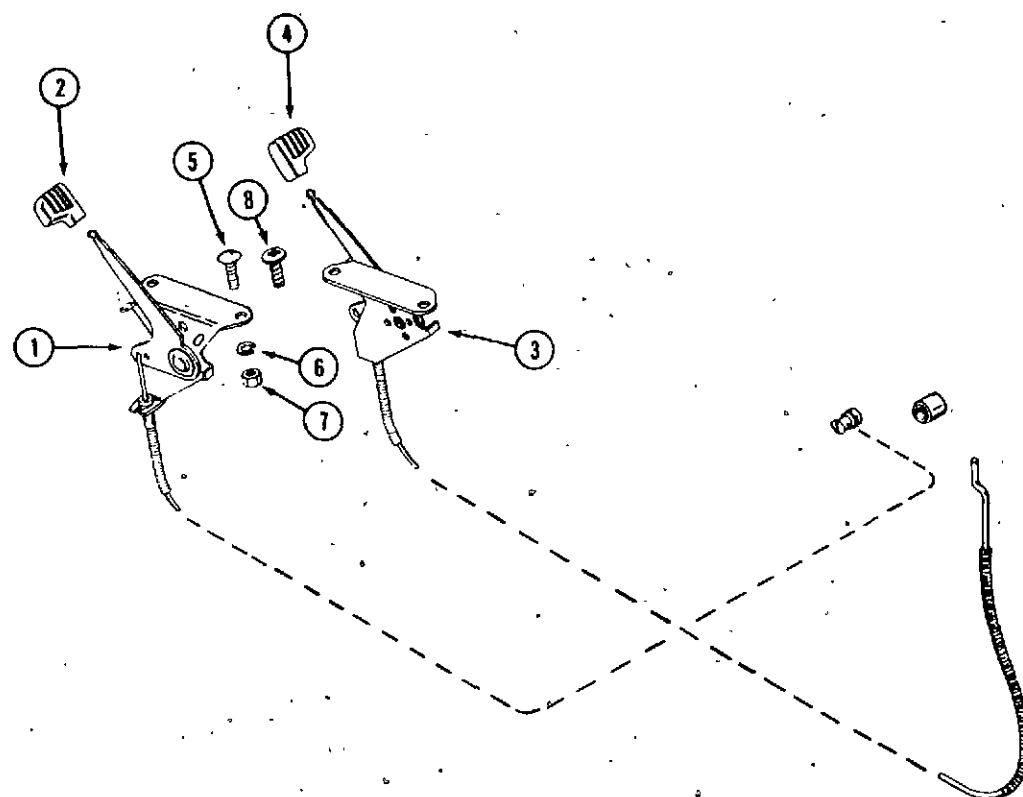
Use S/N and after:
226-14071775
446-14074175

REF.	PART NO.	DESCRIPTION	REQ'D
	C 29868	CARBURETOR - fuel (includes mounting gasket)	1
1	C 29965	FLOAT - fuel	1
2	C 29966	JET - power	1
3	C 29967	JET - idle	1
	C 29962	KIT - repair	1
4	C 29969	GASKET - mounting	2
5	NSS	PLUG - body	1
6	NSS	SCREW - retaining	UAR
7	NSS	LOCK WASHER	UAR
8	NSS	GASKET - body	1
9	NSS	GASKET - sealing	2
10	NSS	VALVE AND SEAT - inlet	1
11	NSS	SCREW - power jet	1
12	NSS	VALVE - idle adjust	1
13	NSS	SPRING - idle adjust	1
14	NSS	SPRING - compression	1

CARBURETOR

Use S/N and after:
448-14075830

	C 29869	CARBURETOR - fuel	1
1	C 29965	FLOAT - fuel (for carburetors marked 146-0414)	1
2	C 29966	JET - power (for carburetors marked 146-0414)	1
3	C 29967	JET - idle (for carburetors marked 146-0414)	1
	C 30018	KIT - repair (for carburetors marked 146-0384)	1
	C 29962	KIT - repair (for carburetors marked 146-0414)	1
4	C 29969	GASKET - mounting	2
5	NSS	PLUG - body	1
6	NSS	SCREW - retaining	UAR
7	NSS	LOCK WASHER	UAR
8	NSS	GASKET - body	1
9	NSS	GASKET - sealing	2
10	NSS	VALVE AND SEAT - inlet	1
11	NSS	SCREW - power jet	1
12	NSS	VALVE - idle adjust	1
13	NSS	SPRING - idle adjust	1
14	NSS	SPRING - compression	1



CHOKE AND THROTTLE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 33411*	CONTROL - throttle	1
1	C 33412**	CONTROL - throttle	1
2	C 30073	HANDLE - throttle control, orange	1
3	C 25604*	CONTROL - choke	1
3	C 30077**	CONTROL - choke	1
4	C 30074	HANDLE - choke control, black	1
5	111- 5	BOLT - No. 10 - 24 x 1/2" N.C. round head, square neck	2
6	192- 18	LOCK WASHER - No. 10	2
7	129- 17	NUT - No. 10 - 24	2
8	182- 559	BOLT - No. 10 - 24 x 3/4" phillips, black	2

*Use before S/N:

**Use S/N and after:

226-14094020

446-14096200

448-14097625

FUEL SYSTEM

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 10657*	ELBOW ASSEMBLY - fuel tank, filter	1
1	C 10678**	ELBOW - hose 90° (shown)	1
2	C 28962	RETAINER - fuel line (optional)	2
3	C 28937	HOSE - fuel line 50" (1270 mm) cut to length	1
4	NSS *	TANK - fuel (use C28940, C31978 and (2) C32376)	1
4	C 28940*	TANK - fuel	1
5	C 11529	CAP - fuel tank (includes insert)	1
6	C 28937**	HOSE - fuel line 4" (100 mm) cut to length	1
7	C 23527	LINER - tank	1
8	C 14690	CUSHION - fuel tank	2
9	C 32376	CLAMP - hose - 1/2"	4
10	C 29296**	FILTER - fuel	1
11	C 24689**	CLIP - "J" fuel line retaining	1
12	187- 1036	SCREW - 1/4" - 20 self tap	1
	C 28030	INSULATION - fuel line	1

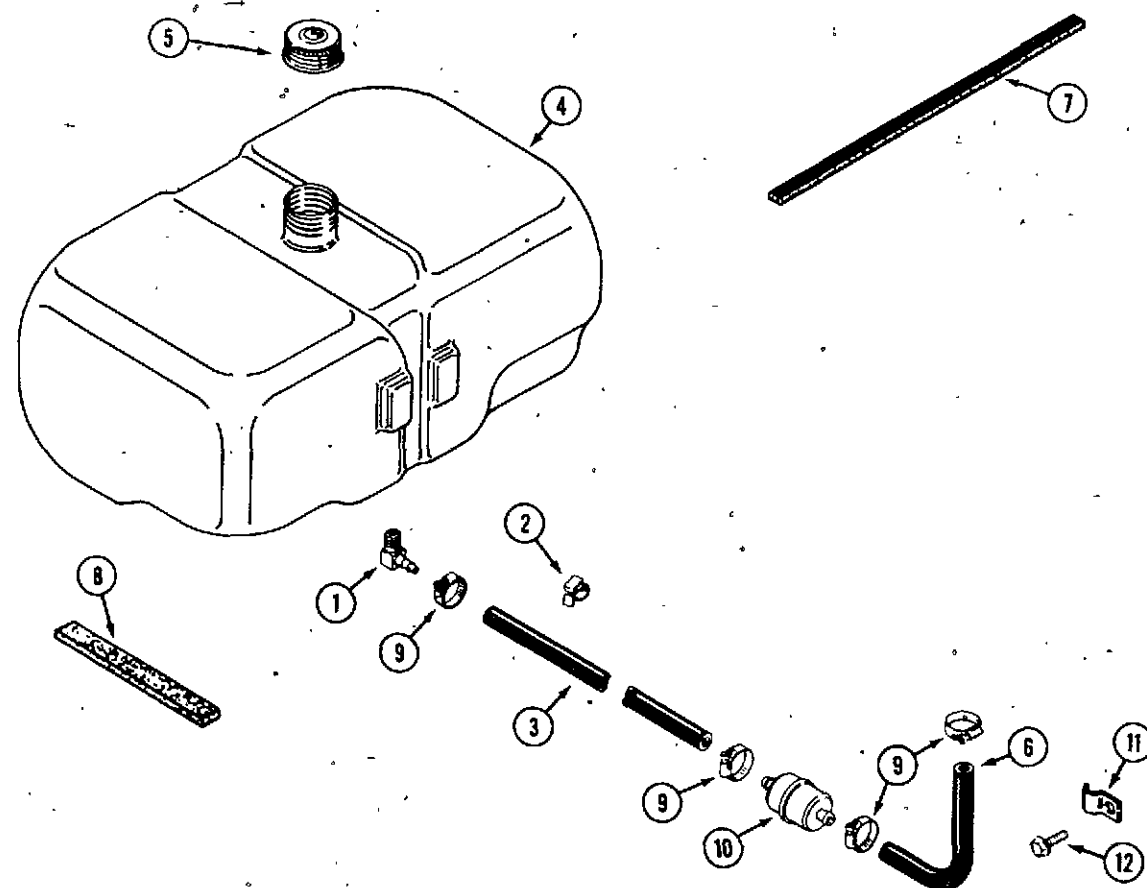
*Use before S/N:

**Use S/N and after:

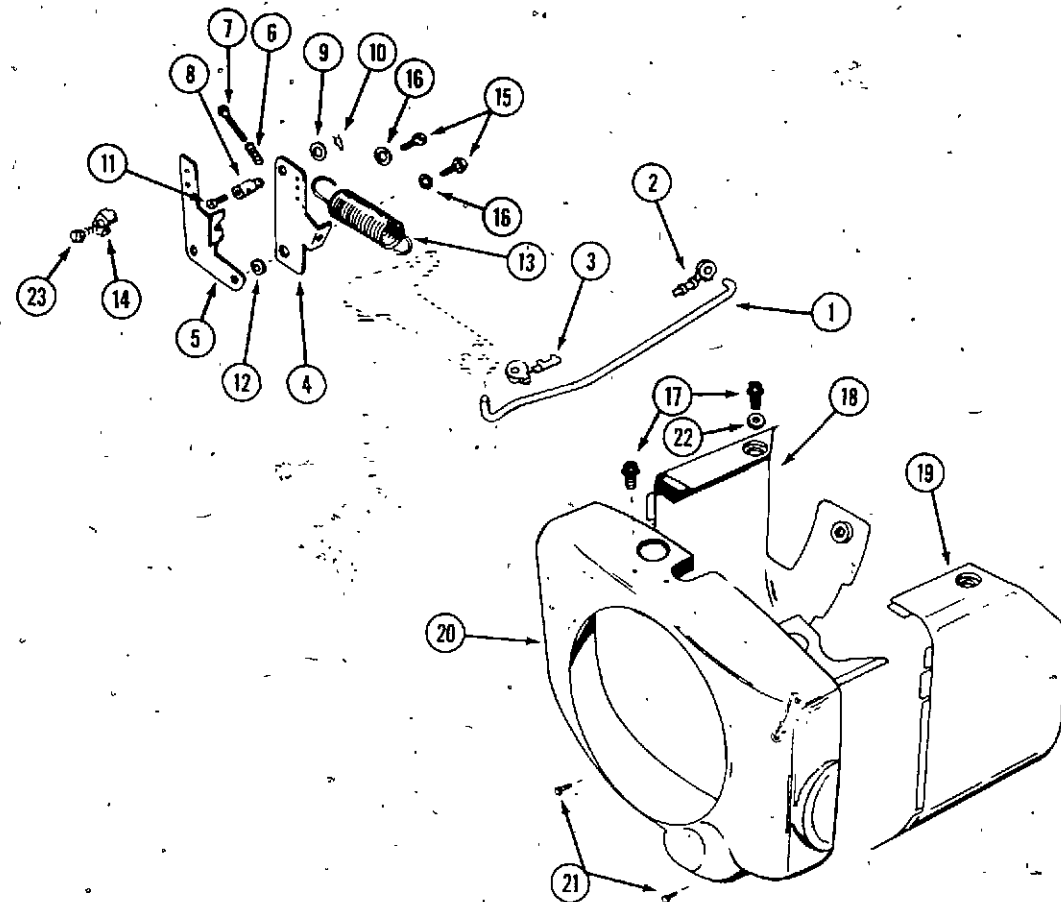
226-14071852

446-14074273

448-14075966



GOVERNOR AND BLOWER HOUSING



REF.	PART NO.	DESCRIPTION	REQ'D.
1	C 20359*	ROD - governor control	1
1	C 29988**	ROD - governor control	1
2	C 20360	RETAINER - governor control rod, carburetor end	1
3	C 20361*	RETAINER - governor control rod, governor end	1
3	C 29989**	RETAINER - governor control rod, governor end	1
4	C 20369	ARM - governor control	1
5	C 28719	BRACKET - governor mounting	1
6	C 20371	SPRING - throttle lever adjust	1
7	182- 49	SCREW - No. 6 x 7/8" round head machine	1
8	C 20372	CLAMP - swivel, throttle	1
9	195- 14	WASHER - swivel clamp mounting	2
10	136- 2	PIN - cotter, swivel clamp mounting	1
11	169- 133	SCREW - No. 8 x 3/8"	1
12	C 20375	BUSHING - governor control	1
13	C 20376	SPRING - governor	1
14	C 29506	RETAINER - throttle cable	1
15	121- 3	BOLT - 1/4" - 20 x 1/2"	2
17	187- 1073	BOLT - 1/4" - 20 x 5/8"	4
18	C 24951	BAFFLE - cylinder air, R.H.	1
19	C 24952	BAFFLE - cylinder air, L.H. (shown) use before S/N: 226-14071775, 446-14074175	1
19	C 25778	BAFFLE - cylinder air, L.H. (448 all) use S/N and after: 226-14071775, 446-14074175	1
20	C 25779	HOUSING - blower (448) use before S/N 14075830	1
20	C 30542**	HOUSING - blower	1
20	C 24953	HOUSING - blower (shown) use before S/N: 226-14071775, 446-14074175	1
21	163- 22	BOLT - 1/4" x 7/16" N.C. hex	1
22	195- 102	WASHER	4
23	187- 1511	SCREW - self tap	1

*Use before S/N:

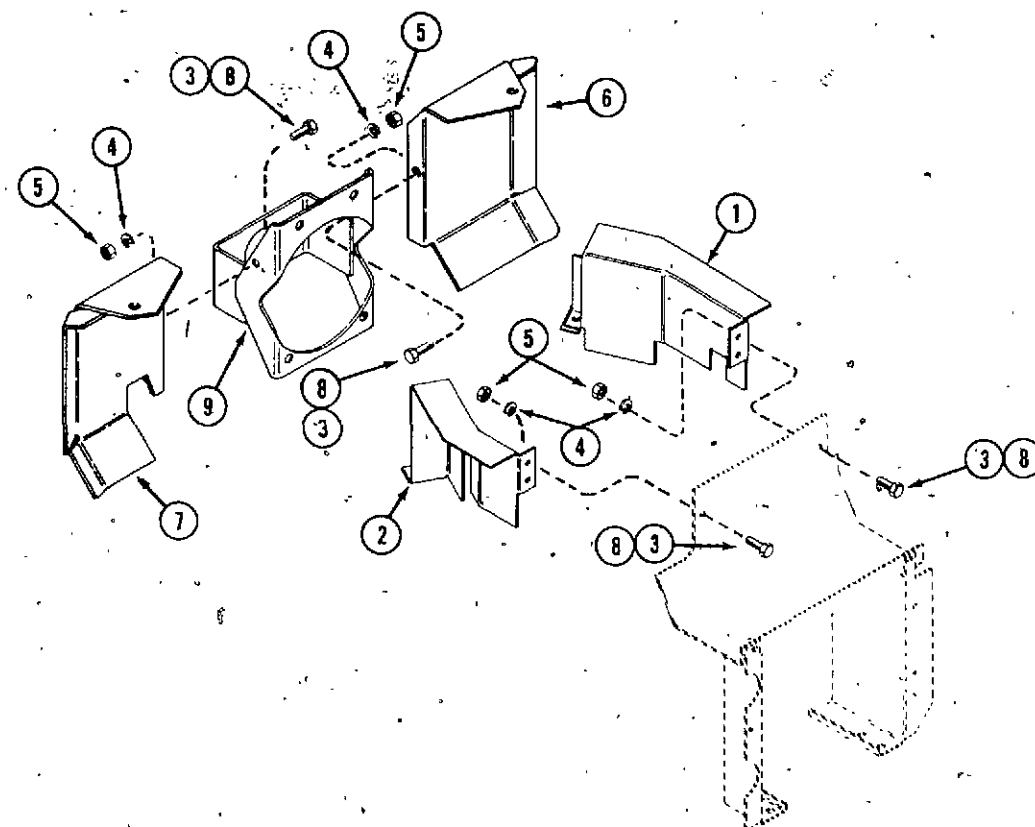
**Use S/N and after:

226-14071775

446-14074175

448-14075830

HEAT SHIELDS AND ENGINE BAFFLES



1	C 25489*	SHIELD - exhaust pipe L.H.	1
1	C 29298**	SHIELD - exhaust pipe L.H.	1
2	C 29302**	SHIELD - exhaust pipe R.H.	1
2	C 25490*	SHIELD - exhaust pipe R.H.	1
3	113- 1	BOLT - 1/4" - 20 x 1/2" hex	2
4	192- 19	LOCK WASHER - 1/4"	4
5	129- 101	NUT - 1/4" - 20 hex	4
6	C 28033	BAFFLE - cylinder L.H.	1
7	C 28034	BAFFLE - cylinder R.H.	1
8	187- 1036	SCREW - self-tapping	2
9	C 26255	SUPPORT - pump mounting	1

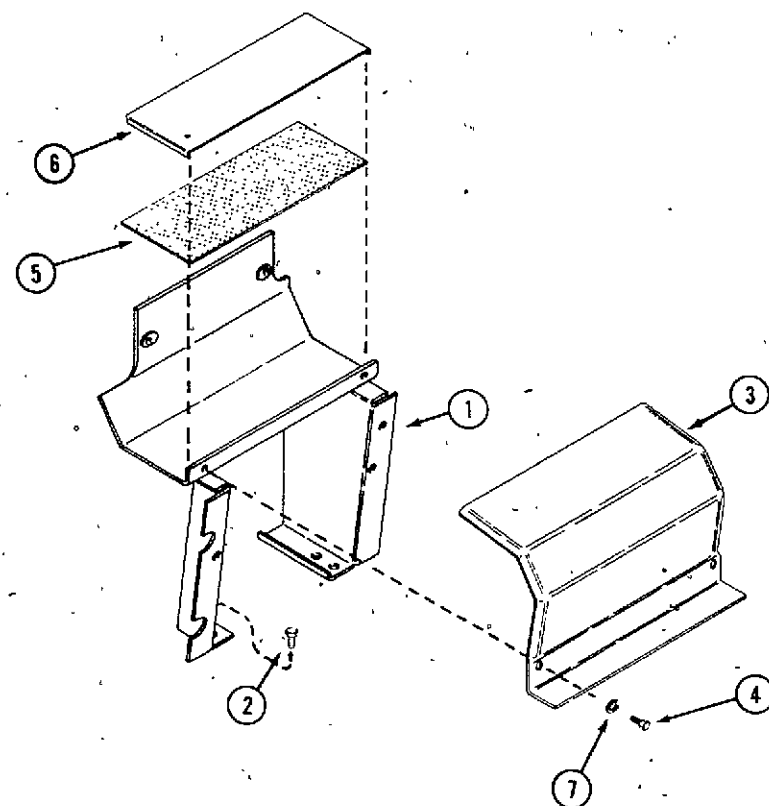
*Use before S/N:

**Use S/N and after:

226-14071775

446-14074175

448-14075830



HEAT EXCHANGER SUPPORT AND MUFFLER SHIELDS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23482*	SUPPORT - heat exchanger (226, 446)	1
1	C 29283	SUPPORT - heat exchanger (448)	1
1	C 29284*	SUPPORT - heat exchanger (226, 446)	1
2	113- 118	BOLT - 5/16" x 5/8"	4
3	C 26098	SHIELD - heat, muffler (226, 446) shown	1
3	C 26455	SHIELD - heat, muffler (448)	1
4	113- 1	BOLT - 1/4" - 20 x 1/2" hex	2
4	187- 1036	BOLT 1/4" - 20 x 1/2" self - tap	2
5	C 23558	PAD - insulation	1
6	C 29698**	RETAINER - insulation	1
6	C 23559*	RETAINER - insulation	1
7	192- 19	LOCK WASHER - 1/4"	2

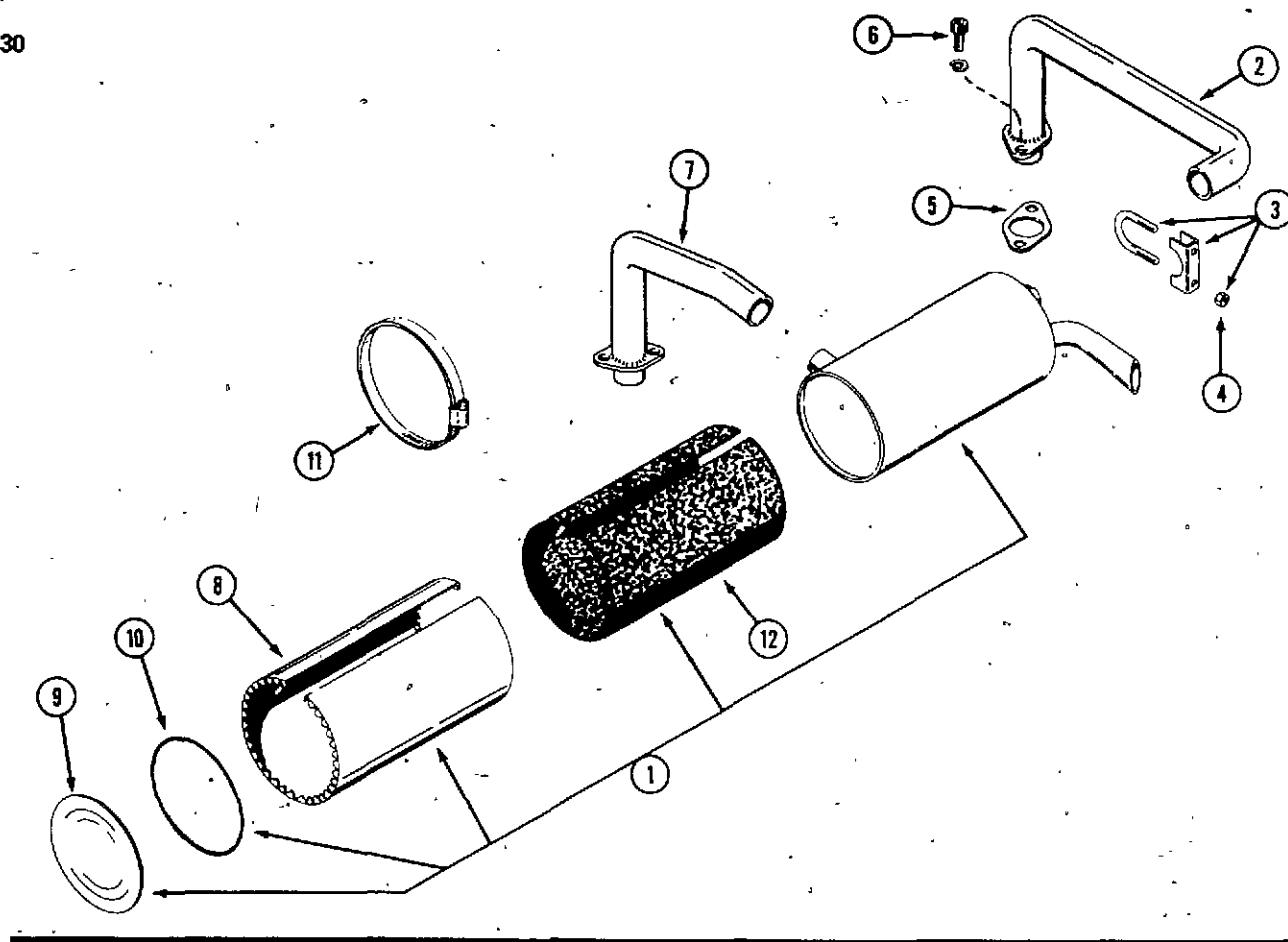
*Use before S/N:

**Use S/N and after:

226-14071775

446-14074175

448-14075830

**EXHAUST SYSTEM**

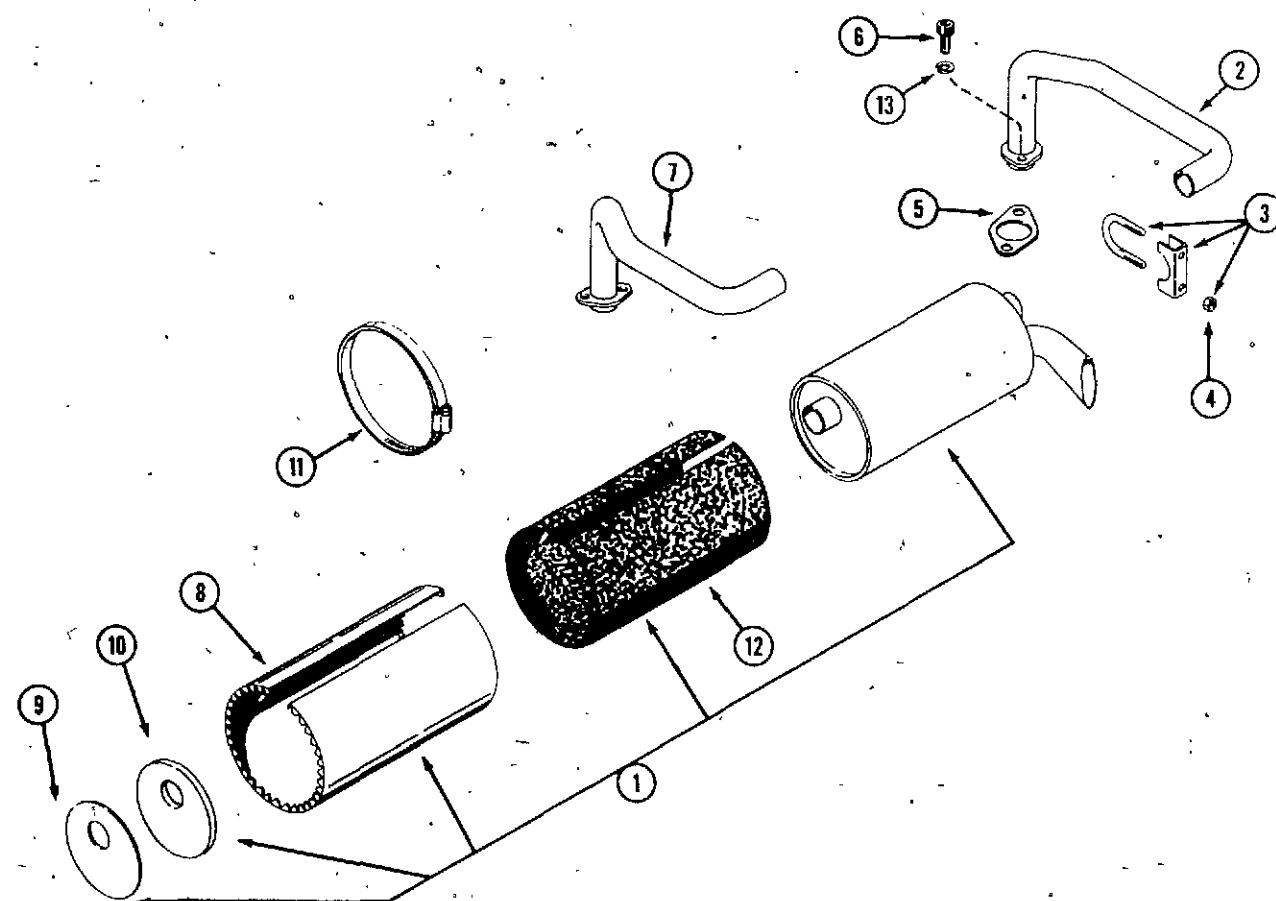
Use before S/N:
226-14071775
446-14074175
448-14075830

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24703*	MUFFLER ASSEMBLY - exhaust (includes items 8, 9, 10 and 12)	1
1	C 26974**	MUFFLER ASSEMBLY - exhaust (includes items 8, 9, 10 and 12)	1
2	C 26971**	PIPE - engine exhaust L.H.	1
2	C 25071*	PIPE - engine exhaust L.H.	1
3	C 28968*	CLAMP ASSEMBLY - muffler 1-1/4"	2
3	C 28294*	CLAMP ASSEMBLY - muffler 1-1/8"	2
4	129- 102	NUT - 5/16" N.C. hex.	2
5	C 26207	GASKET - exhaust	2
6	61- 512	BOLT - 5/16" x 5/8" socket head	4
7	C 25073*	PIPE - engine exhaust R.H.	1
7	C 26969**	PIPE - engine exhaust R.H.	1
8	C 24296*	WRAPPER - muffler	1
8	C 26968**	WRAPPER - muffler	1
9	C 23581*	COVER - muffler end	1
9	C 22889**	COVER - muffler end	1
10	C 23580*	INSULATION - muffler end	1
10	C 29290**	INSULATION - muffler	1
11	214- 272	CLAMP - wrapper mounting	3
12	C 23686*	INSULATION - muffler	1
12	C 26058**	INSULATION - muffler	1
13	192- 404	LOCK WASHER - 5/16"	4

*Use before S/N:
**Use S/N and after:
226-14048500
446-14041750
448-14044287

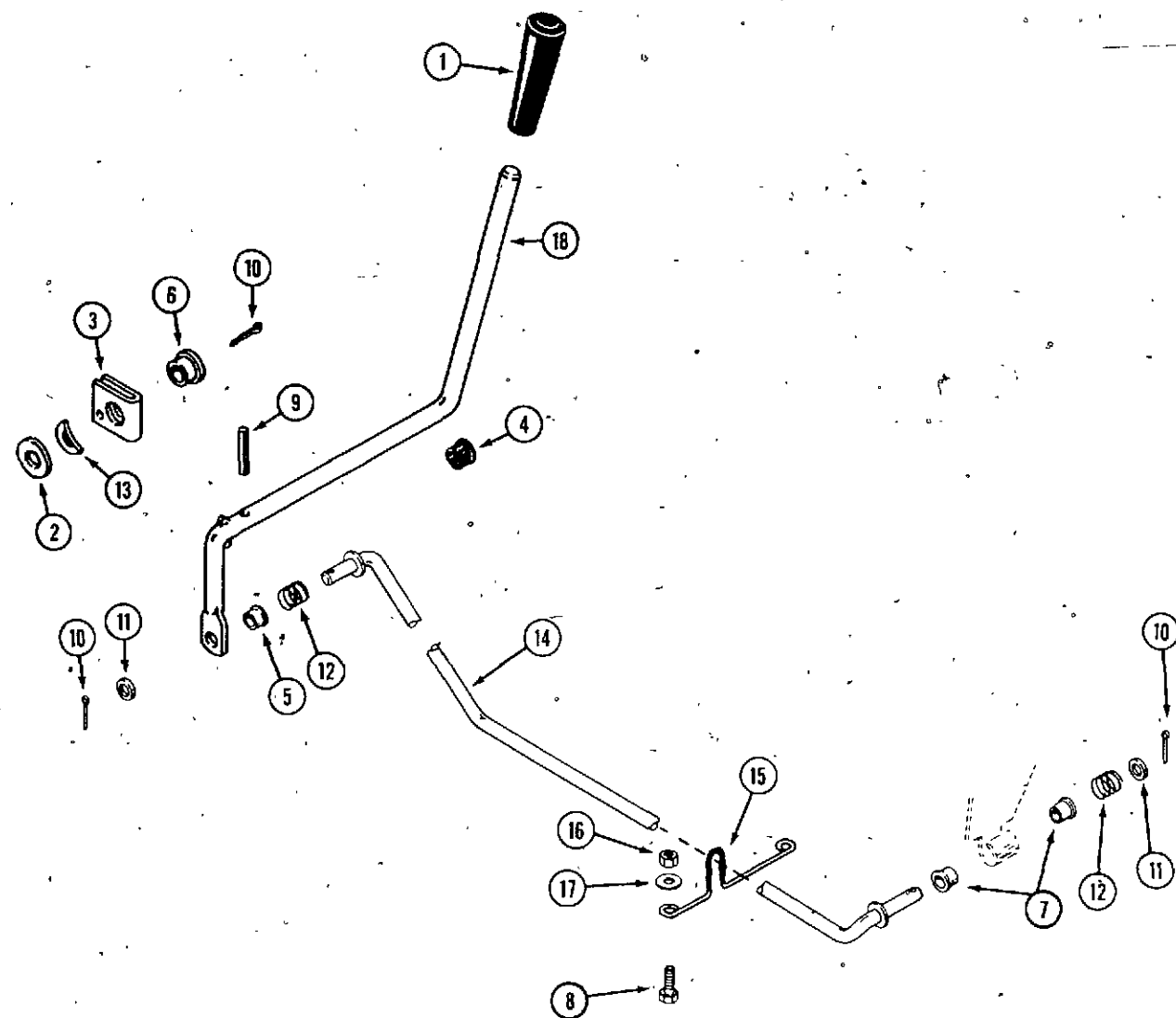
EXHAUST SYSTEM

Use S/N and after:
226-14071775
446-14074175
448-14075830



1	C 29288	MUFFLER ASSEMBLY - exhaust (includes items 8, 9, 10 and 12)	1
2	C 29292	PIPE - engine exhaust L.H.	1
3	C 28294	CLAMP ASSEMBLY - muffler 1-1/8"	2
4	129- 102	NUT - 5/16" N.C. hex.	2
5	C 26207	GASKET - exhaust	2
6	61- 512	BOLT - 5/16" x 5/8" socket head	4
7	C 29294	PIPE - engine exhaust R.H.	1
8	C 26062	WRAPPER - muffler	1
9	C 29291	COVER - muffler end	1
10	C 29290	INSULATION - muffler	1
11	214- 272	CLAMP - wrapper mounting	3
12	C 26058	INSULATION - muffler	1
13	192- 404	LOCK WASHER - 5/16"	4

PTO CLUTCH LINKAGE

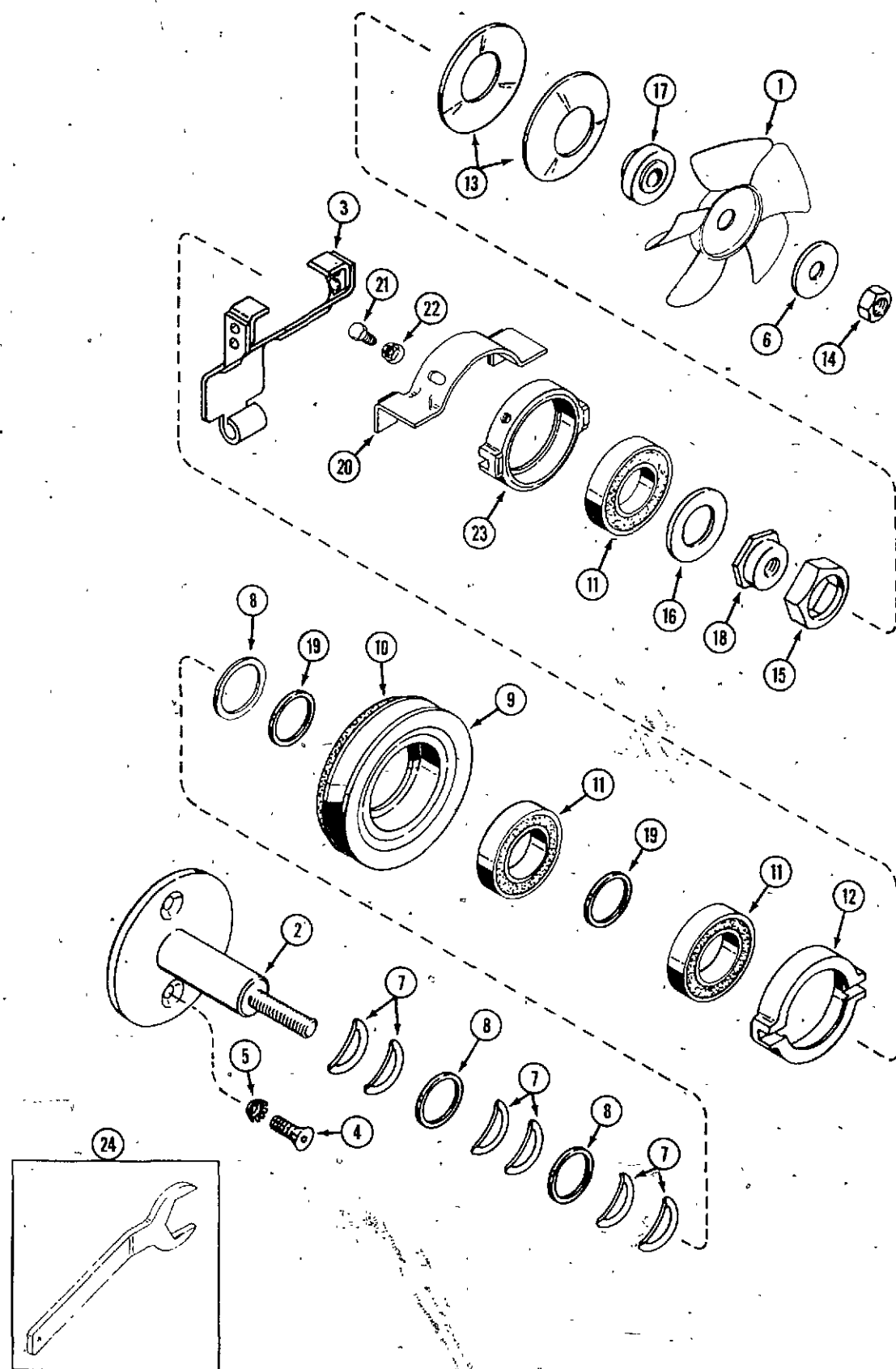


REF.	PART NO.	DESCRIPTION	REQ'D
1	C 29046	KNOB - lever, PTO	1
2	195- 533	WASHER - 1/2"	1
3	C 26264	BRACKET - support, PTO lever	1
4	353- 462	BUSHING - lever, control tower	1
5	C 20093	BUSHING - special	1
6	C 26266	BUSHING - flange, nylon	1
7	C 20053	BUSHING - nylon	2
8	113- 207	BOLT - 3/8" x 1" N.C. hex	2
9	138- 63	PIN - roll 1/8" x 1-1/4"	1
10	132- 310	PIN - cotter 1/8" x 1"	2
10	132- 320	PIN - cotter 3/32" x 3/4"	2
11	C 14906	WASHER - nylon 3/8" (early production)	2
12	C 19867	SPRING - clutch rod (early production)	2
13	C 28288	WASHER - spring	1
14	C 27734*	ROD - clutch	1
15	C 19767	GUIDE - clutch rod	1
16	131- 178	NUT - lock 3/8" N.C. hex	2
17	195- 104	WASHER - 3/8"	2
18	C 29409	LEVER - PTO engaging	1

*when replacing early style clutch rod:
 1. discard nylon washers and springs
 2. also required (2) 132-320 cotter pins

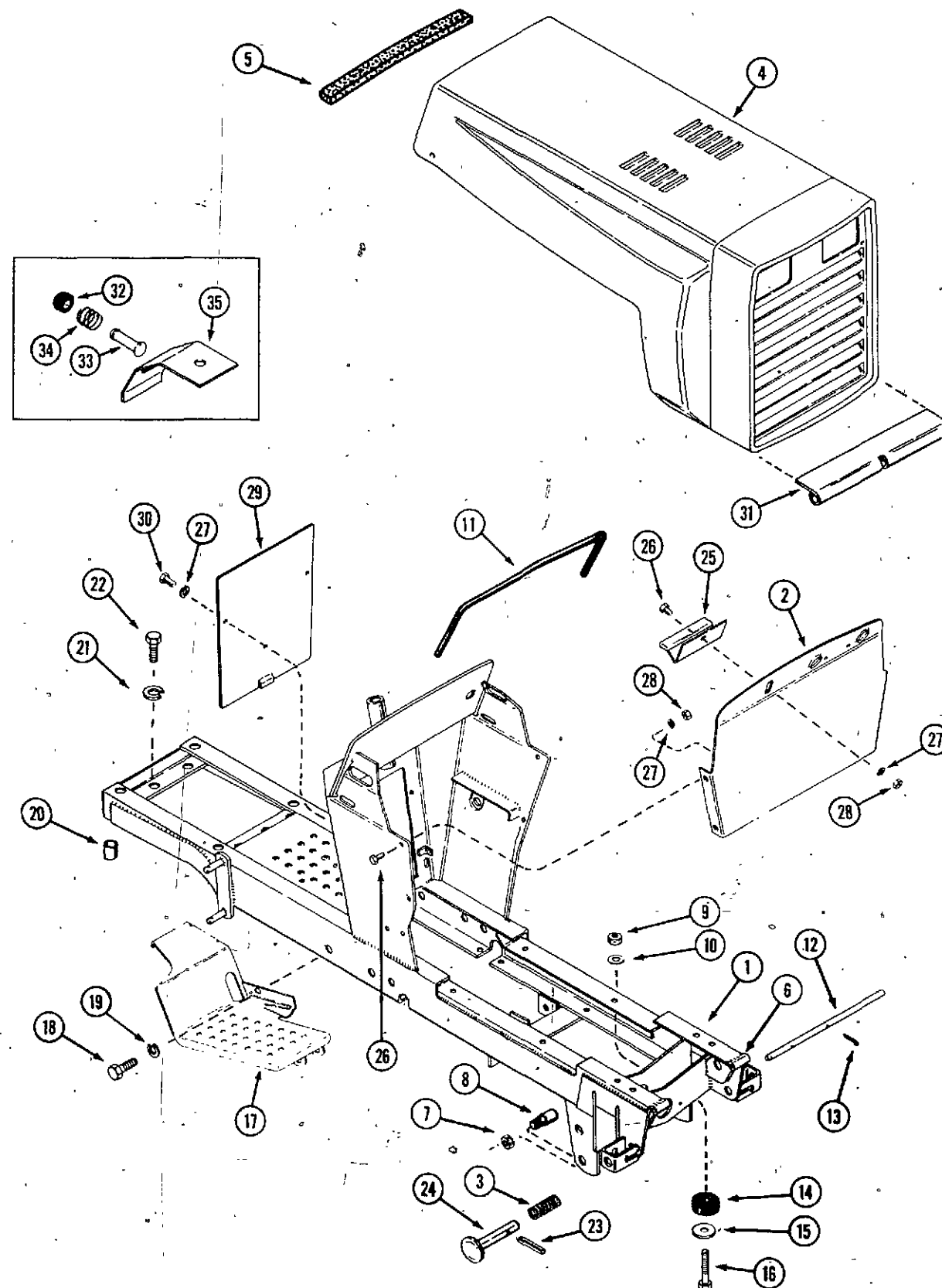
CLUTCH ASSEMBLY (PTO)

REF.	PART NO.	DESCRIPTION	REQ'D
	C 31026	CLUTCH AND FAN ASSEMBLY	1
1	C 16616	FAN - cooling	1
2	C 24741	HUB - clutch	1
3	C 26166	ARM - engaging	1
4	164- 40	SCREW - 5/16" - 18 x 3/4" flat head socket	2
5	193- 76	LOCK WASHER - 5/16" special external tooth	2
6	C 28677	WASHER - fan 17/32"	1
7	C 15515	WASHER - spring	6
8	C 15557	WASHER - spacer .050"	3
9	C 31045	KIT - pulley and disc assembly (includes item 19)	1
10	C 23740	KIT - friction disc	1
11	C 29735	BEARING - ball	3
12	C 32169	CAM - clutch	1
13	C 16786	SPRING - clutch load	2
14	129- 125	NUT - 1/2" N.F.	1
15	C 23627	GUIDE - adjusting nut	1
16	C 23624	WASHER - spacer	1
17	C 23630	SPACER - hub	1
18	C 23625	NUT - adjust	1
19	C 29811	SPACER - washer .100"	2
20	C 31018	CLEVIS - PTO brake	1
21	113- 3	BOLT - 1/4" - 20 x 3/4"	2
22	131- 934	NUT - 1/4" - 20 flange lock	2
23	C 32168	CAM - clutch	1
24	C 29772	WRENCH - clutch adjust	1



HOOD, FRAME AND GRILLE

Use before S/N:
226-14094020
446-14096200
448-14097625



REF.	PART NO.	DESCRIPTION	REQ'D
1	C 29716**	FRAME - main (226)	1
1	C 29719*	FRAME - main (446, 448) shown	1
1	C 27153*	FRAME - main (226)	1
1	C 26941*	FRAME - main (446, 448)	1
2	C 24821*	SHIELD - heat	1
2	C 30143*	SHIELD - heat	1
3	C 24137*	SPRING - latch	2
4	C 30116**	HOOD AND GRILLE ASSEMBLY - (includes item 31) 226, 446 (shown)	1
4	C 30117**	HOOD AND GRILLE ASSEMBLY - (includes item 31) 448	1
4	C 26816*	HOOD AND GRILLE ASSEMBLY - (includes item 31) 226 446 (shown)	1
4	C 26817	HOOD AND GRILLE ASSEMBLY - (includes item 31) 448	1
5	C 23527	LINER - hood	1
6	C 22023	HINGE - frame	2
7	131- 1318	NUT - lock 1/2" N.F.	2
8	C 27508	PIN - attachment	2
9	131- 1181	NUT - lock 3/8" N.C.	4
10	195- 525	WASHER - plain 3/8" x 13/16" O.D. (over engine foot pad)	4
11	C 18153	LINER - instrument panel	1
12	C 16362	ROD - hood hinge	1
13	132- 334	PIN - cotter 1/8" x 3/4"	1
14	C 15410	CUSHION - washer	4
15	195- 2029	WASHER - plain 3/8" x 1-1/4" O.D. (under cushion)	4
16	113- 219	BOLT - 3/8" x 2" N.C. hex	4
17	C 25317	PAD - foot L.H.	1
17	C 25318	PAD - foot R.H. (shown)	1
18	113- 113	BOLT - 5/16" x 7/8" N.C. hex	4
19	192- 20	LOCK WASHER - 5/16"	4
20	C 14729	SPACER - rear, frame (446, 448)	2
20	C 14730	SPACER - rear, frame (226)	2
21	192- 23	LOCK WASHER - 1/2"	4
22	113- 424	BOLT - 1/2" N.C. hex, transaxle mounting	UAR
22	166- 86	BOLT - 1/2" x 1-1/4" flange	UAR
23	138- 2073	PIN - roll 3/16" x 1-1/4"	2
24	C 16373	PIN - latch	2
25	C 29308*	RETAINER - battery hold down	1
25	C 24820*	RETAINER - battery hold down	1
26	182- 547	BOLT - 1/4" - 20 x 1/2"	5
27	192- 19	LOCK WASHER - 1/4"	7
28	129- 101	NUT - 1/4" - 20 hex	5
29	C 26506	COVER - access	1
30	187- 1036	SCREW - 1/4" - 20 x 1/2" self tap	2
31	C 16361	HINGE - hood	1
32	C 29314**	BUTTON - push, hood release	1
33	C 29315**	ROD - push, hood release	1
34	C 30004**	SPRING - release	1
35	C 29323**	LATCH - hood	1

*Use before S/N:

**Use S/N and after:

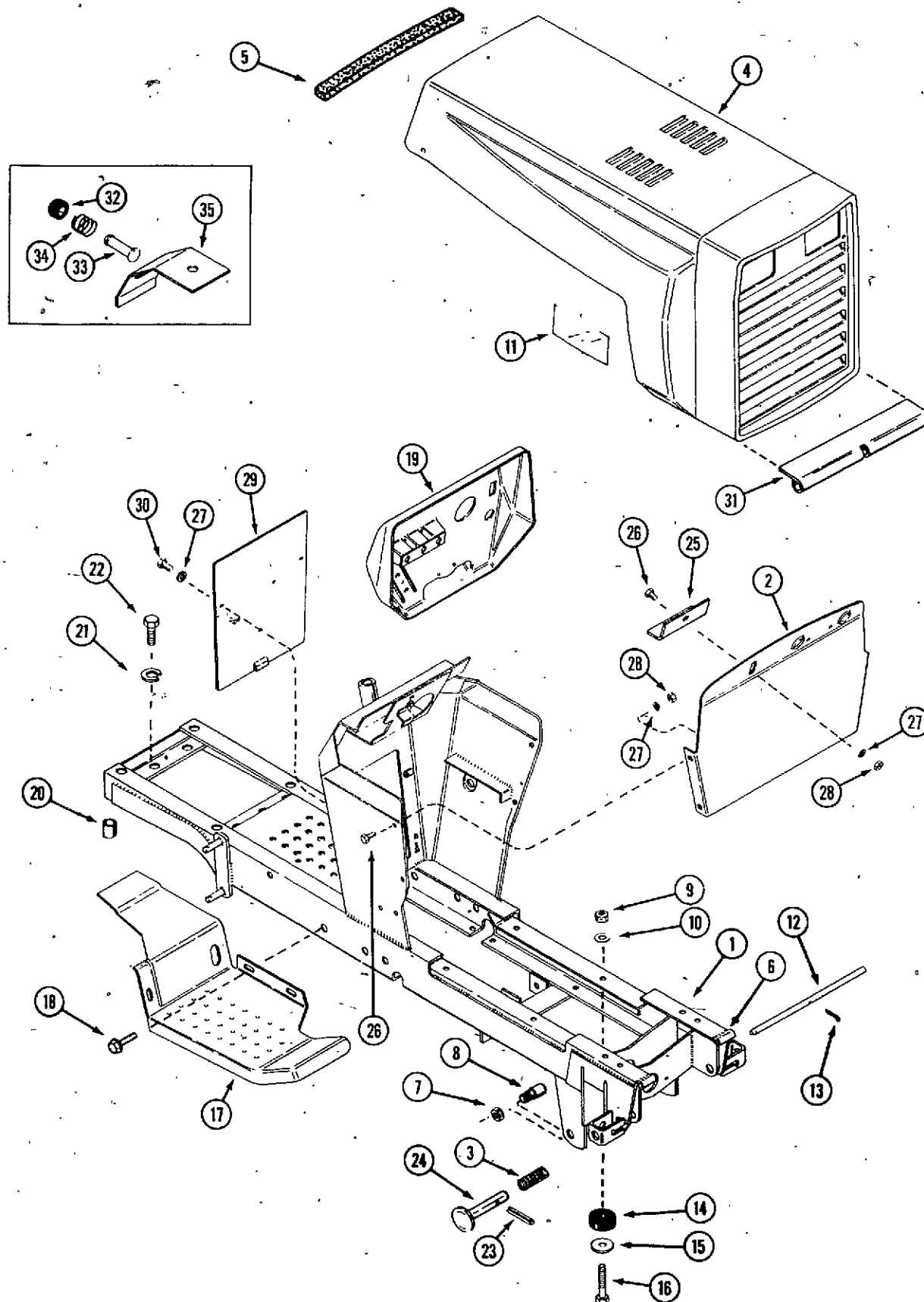
226-14071775

446-14074175

448-14075830

HOOD, FRAME AND GRILLE

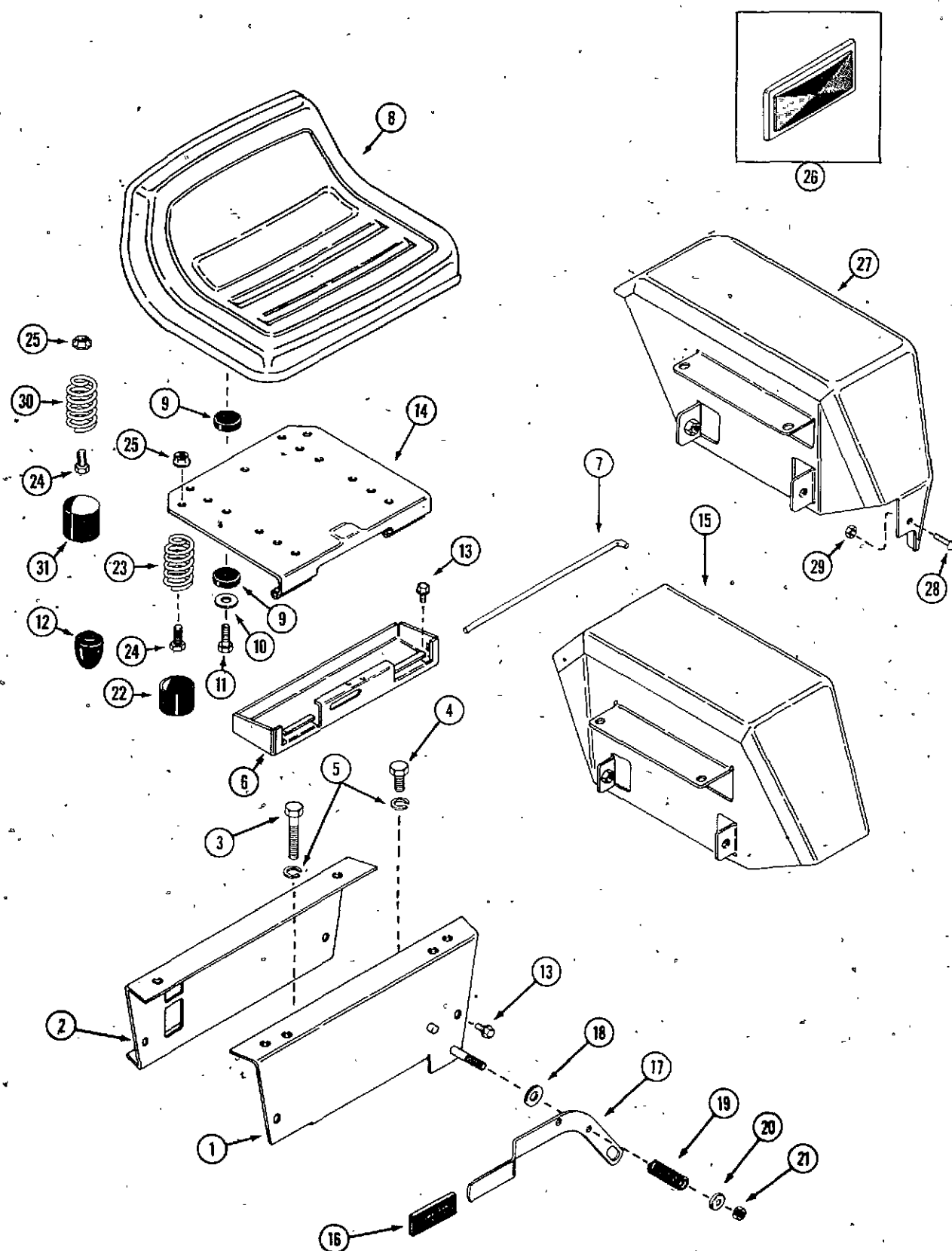
Use S/N and after:
 226-14094020
 446-14096200
 448-14097625



REF.	PART NO.	DESCRIPTION	REQ'D
1	C 30523*	FRAME - main (226)	1
1	C 30526*	FRAME - main (446, 448)	1
2	C 30143	SHIELD - heat	1
3	C 24137	SPRING - latch	2
4	C 30116	HOOD AND GRILLE ASSEMBLY - (includes item 31) 226, 446 (shown)	1
4	C 30117	HOOD AND GRILLE ASSEMBLY - (includes item 31) 448	1
5	C 23527	LINER - hood	1
6	C 22023	HINGE - frame	2
7	131- 1318	NUT - lock 1/2" N.F.	2
8	C 27508	PIN - attachment	2
9	131- 1181	NUT - lock 3/8" N.C.	4
10	195- 525	WASHER - plain 3/8" x 13/16" O.D. (over engine foot pad)	4
11	C 31279	SHIELD - heat	UAR
12	C 16362	ROD - hood hinge	1
13	132- 334	PIN - cotter 1/8" x 3/4"	1
14	C 15410	CUSHION - washer	4
15	195- 2029	WASHER - plain 3/8" x 1-1/4" O.D. (under cushion)	3
16	113- 219	BOLT - 3/8" x 2-1/4" N.C. hex	4
17	C 30458	PAD - foot L.H. (226)	1
17	C 30460	PAD - foot R.H. (shown) (226)	1
17	C 30462	PAD - foot L.H. (446, 448)	1
17	C 30464	PAD - foot R.H. (446, 448)	1
18	121- 106	BOLT - 5/16" x 1/2" N.C. hex	4
19	C 30134	CAP - instrument panel	1
20	C 14729	SPACER - rear, frame (446, 448)	2
20	C 14730	SPACER - rear, frame (226)	2
21	192- 23	LOCK WASHER - 1/2"	4
22	113- 424	BOLT - 1/2" N.C. hex, transaxle mounting	UAR
22	166- 86	BOLT - 1/2" x 1-1/4" flange	UAR
23	138- 2073	PIN - roll 3/16" x 1-1/4"	2
24	C 16373	PIN - latch	2
25	C 30142	RETAINER - battery hold down	1
26	182- 547	BOLT - 1/4" - 20 x 1/2"	5
27	192- 19	LOCK WASHER - 1/4"	7
28	129- 101	NUT - 1/4" - 20 hex	5
29	C 26506	COVER - access	1
30	187- 1036	SCREW - 1/4" - 20 x 1/2" self tap	2
31	C 16361	HINGE - hood	1
32	C 29314	BUTTON - push, hood release	1
33	C 30126	ROD - push, hood release	1
34	C 30004	SPRING - release	1
35	C 29323	LATCH - hood	1

*Also requires C30530
 before S/N:
 226 - 14110139
 446 - 14112151
 448 - 14113556

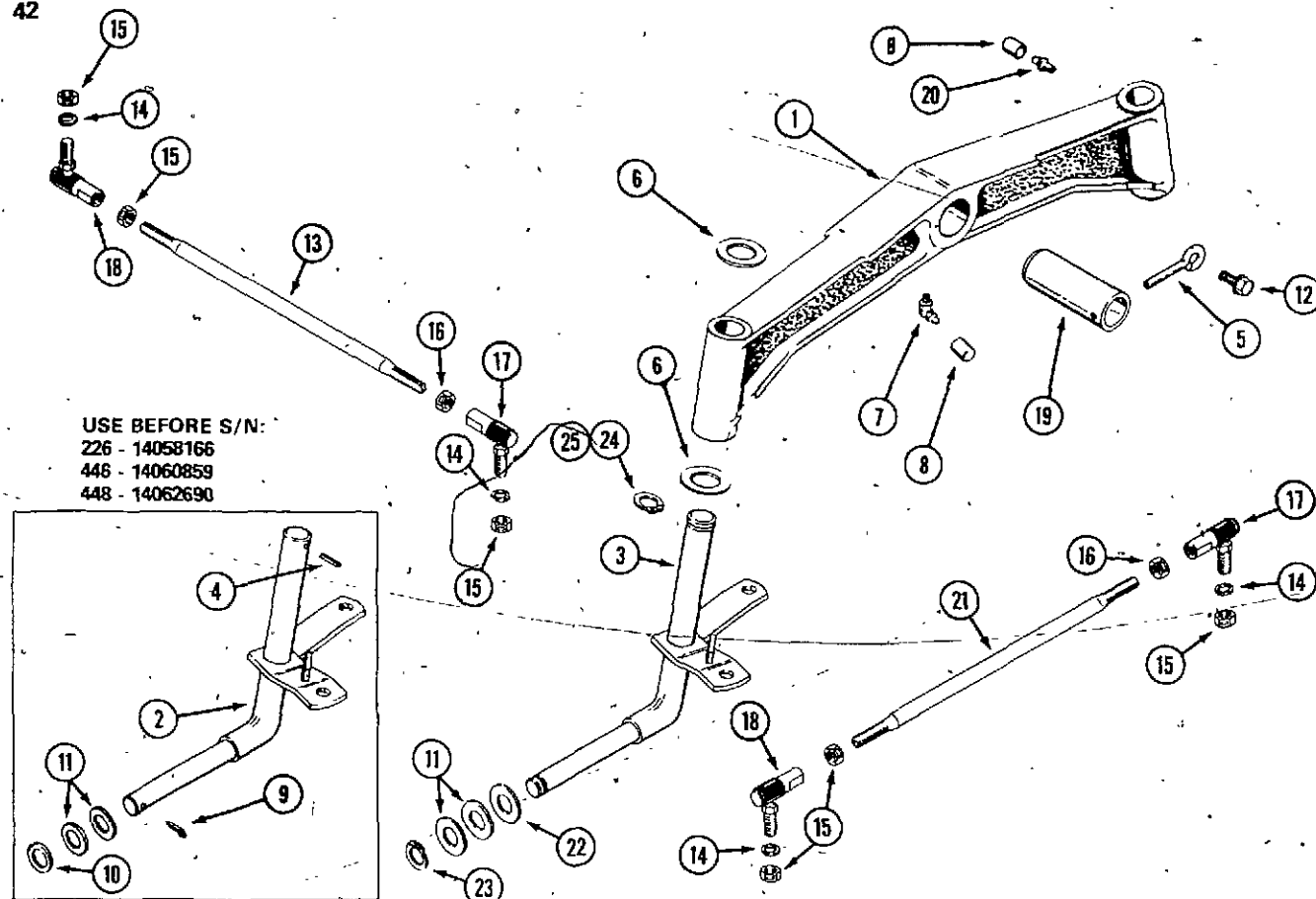
SEAT, FENDERS AND TOOL TRAY



REF.	PART NO.	DESCRIPTION	REQ'D
1	C 31020	SUPPORT - seat, front (226) shown	1
1	C 31021	SUPPORT - seat, front (446, 448)	1
2	C 26827	SUPPORT - seat, rear (226) shown	1
2	C 27224	SUPPORT - seat, rear (446, 448)	1
3	113- 427	BOLT - 1/2" x 3-1/4" (226)	2
3	113- 441	BOLT - 1/2" x 2-1/4" N.C. hex (446, 448)	2
4	113- 424	BOLT - 1/2" x 1" N.C. hex	1
4	113- 118	BOLT - 5/16" x 5/8"	1
5	192- 20	LOCK WASHER - 5/16"	1
5	192- 23	LOCK WASHER - 1/2"	4
6	C 31004	TRAY - tool	1
7	C 16429	PIN - seat hinge	1
8	C 30071	SEAT - (226) shown (black)	1
8	C 30066	SEAT - (446, 448) (black)	1
9	C 15410	CUSHION - rubber	8
10	195- 2175	WASHER - 5/16" x 1-1/4" OD, zinc	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 lock	10
14	NSS *	HINGE ASSEMBLY - seat (use C31005 and (2) C29305, 113-102, 131-911)	1
14	C 31005**	HINGE ASSEMBLY - seat	1
15	C 26829+	FENDER - R.H. (226)	1
15	C 26831+	FENDER - L.H. (226) shown	1
15	C 26835+	FENDER - L.H. (446, 448)	1
15	C 26833+	FENDER - R.H. (446, 448)	1
16	C 14728	GRIP - shift lever	1
17	C 27594	LEVER - shift	1
18	195- 525	WASHER - 7/16" x 1-1/4" O.D.	1
19	C 17216	SPRING - shift lever	1
20	C 30489	WASHER	1
21	131- 1181	NUT - lock 3/8" N.C. hex	1
22	C 29305**	CAP - spring	2
23	C 29306**	SPRING - seat	2
24	113- 102**	BOLT - 5/16" - 18 x 3/4"	2
25	131- 911**	NUT - 5/16" - 18 flange lock	2
26	NSS	REFLECTOR - red, rear fender (use C30942)	2
27	C 30467++	FENDER - R.H. (226)	1
27	C 30466++	FENDER - L.H. (226) shown	1
27	C 30471++	FENDER - R.H. (446, 448)	1
27	C 30470++	FENDER - L.H. (446, 448)	1
28	182- 547	SCREW - 1/4" - 20 x 1/2"	2
29	131- 934	NUT - 1/4"	2
30	C 31006	SPRING - seat switch	1
31	C 26526	CAP - spring	1

*Use before S/N:
 **Use S/N and after:
 226 - 14071775
 446 - 14074175
 448 - 14075830

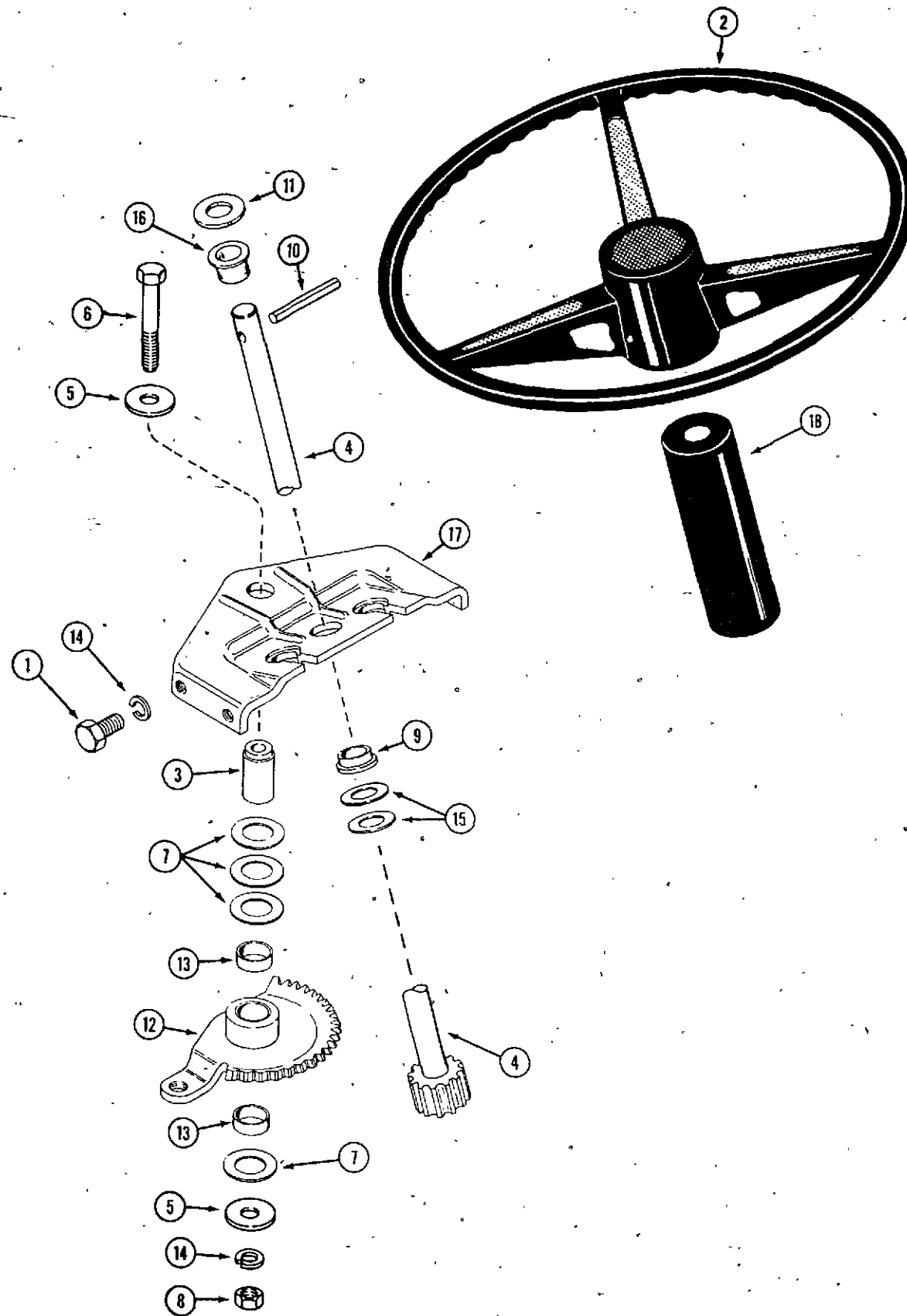
+Use before S/N:
 ++Use S/N and after:
 226 - 14094020
 446 - 14096200
 448 - 14097625



FRONT AXLE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18812	AXLE - front (226)	1
1	C 18813	AXLE - front (446, 448) shown	1
2	NSS	SPINDLE - R.H. (226) (use C31338, C27902)	1
2	NSS	SPINDLE - R.H. (446, 448) shown (use C31341, 132-311, C27902)	1
2	NSS	SPINDLE - L.H. (226) (use C31337, C27902)	1
2	NSS	SPINDLE - L.H. (446, 448) (use C31340, 132-311, C27902)	1
3	NSS	SPINDLE - R.H. (226) (use C31338, 132-311)	1
3	NSS	SPINDLE - R.H. (446, 448) shown (use C31341, 132-311)	1
3	NSS	SPINDLE - L.H. (226) (use C31337, 132-311)	1
3	NSS	SPINDLE - L.H. (446, 448) (use C31340, 132-311)	1
4	138- 99	PIN - roll	2
5	C 22278	PIN - retaining, axle pivot	1
6	C 11906	WASHER - thrust (226)	4
6	C 13716	WASHER - thrust (446, 448) shown	4
7	219- 404	FITTING - lubrication	3
8	C 13106	COVER - lubrication fitting	3
9	132- 311	PIN - cotter 5/32" x 1-1/4"	2
10	C 12975	WASHER - wheel spindle	2
11	C 28226	WASHER - wheel spacer	UAR
12	187- 1910	BOLT - 3/8" N.C. hex head	1
13	C 25857	LINK - drag	1
14	192- 23	LOCK WASHER - 1/2" zinc	3
15	129- 165	NUT - 1/2" N.F. R.H. thread, lock	6
16	129- 365	NUT - 1/2" N.F. L.H. thread, lock	2
17	C 13605	BALL JOINT - 1/2" L.H. thread	2
18	C 12102	BALL JOINT - 1/2" R.H. thread	2
19	C 22568	PIN - axle pivot	1
20	219- 17	FITTING - lubrication	2
21	C 25855	TIE ROD - (446, 448 shown)	1
21	C 25856	TIE ROD - (226)	1
22	C 27597	WASHER - spacer	2
23	C 28232	RING - retaining, wheel	2
24	C 27902	RING - retaining, spindle (446, 448)	2
25	C 28232	RING - retaining, spindle (226)	2

STEERING GEAR



REF.	PART NO.	DESCRIPTION	REQ'D
1	113- 206	BOLT - 3/8" x 3/4" N.C. hex	4
2	C 26325	WHEEL - steering	1
3	NSS *	PIN - pivot (use C29044)	1
3	C 29044**	PIN - pivot	1
4	C 26326	SHAFT - steering	1
5	C 29812	WASHER - 3/8" x 1.4"	2
6	113- 241	BOLT - 3/8" - 16 x 3" hex	1
7	C 14201	WASHER - shim	4
8	129- 103	NUT - 3/8" - 16 hex	1
9	C 27501**	BUSHING - (not used on all models)	1
10	138- 143	PIN - roll 1/4" x 2-1/4"	1
11	195- 541	WASHER - 5/8"	UAR
12	C 33309	GEAR - steering	1
13	C 33308	BUSHING - sleeve	2
14	192- 21	LOCK WASHER - 3/8"	5
15	195- 2069	WASHER - 5/8" zinc plated	UAR
16	C 15096	BUSHING - flanged nylon	1
17	C 30019**	SUPPORT - steering gear (includes item 9)	1
17	NSS *	SUPPORT - steering (use C29812, C30019 and C29044)	1
18	C 24098+	TUBE - steering	1
18	C 30127++	TUBE - steering	1

*Use before S/N:

**Use S/N and after:

226 - 14071872

446 - 14074315

448 - 14075995

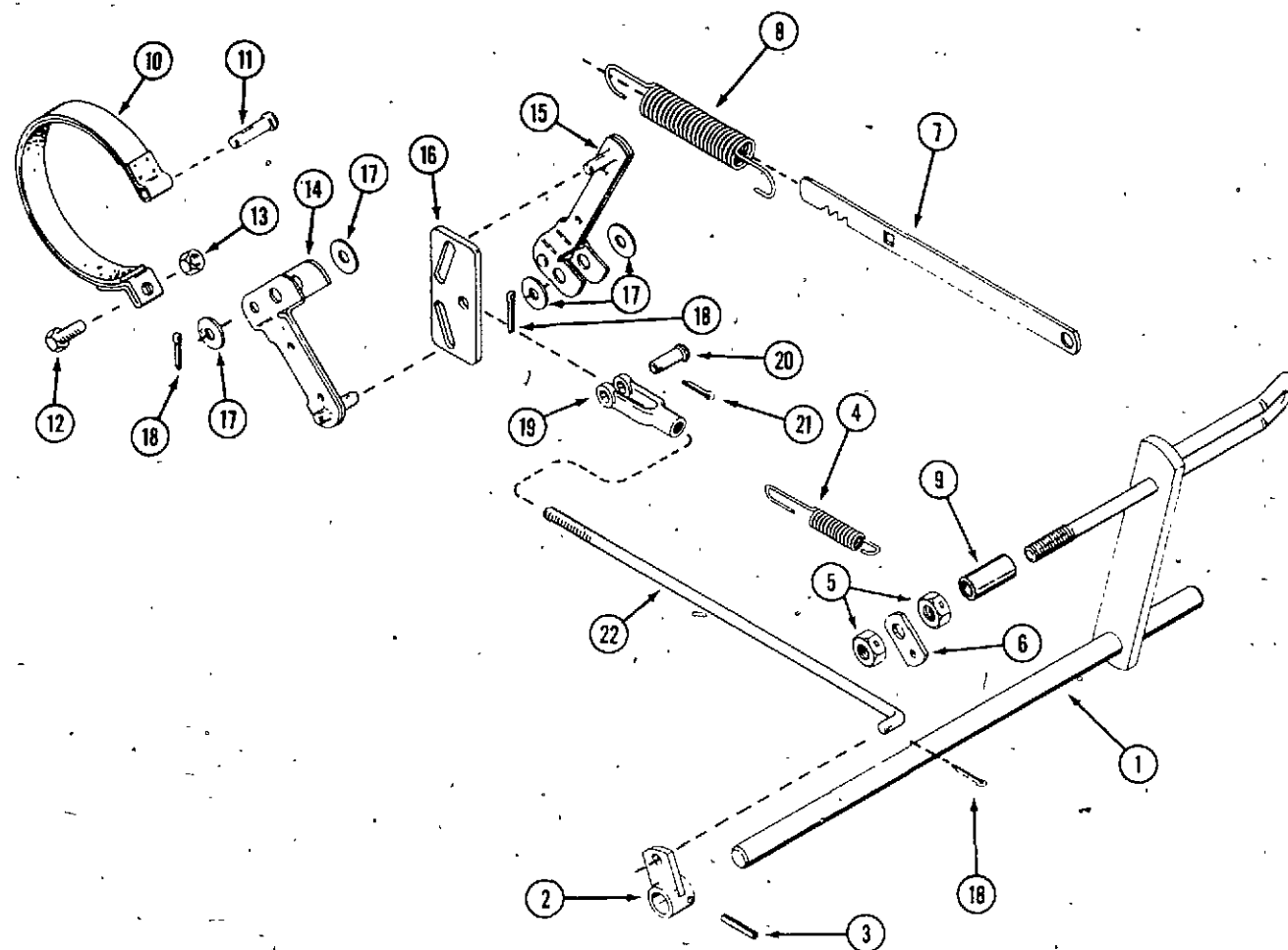
+ Use before S/N:

++ Use S/N and after:

226 - 14094020

446 - 14096200

448 - 14097625

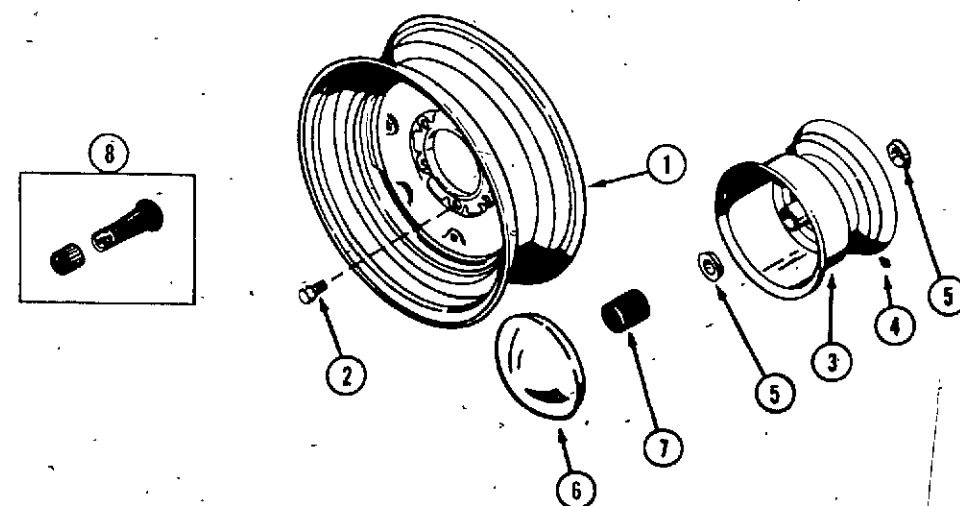


BRAKE ASSEMBLY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 22316	PEDAL - brake actuating	1
2	C 26381	ARM - brake pedal	1
3	138- 2073	PIN - roll 3/16" x 1-1/4"	1
4	C 25022	SPRING - return	1
5	131- 1308	NUT - lock, special 1/2"-13	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 33276	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 special	1
14	C 23899	ARM - brake	1
15	C 24761	ARM - brake (includes adjustment nut)	1
16	C 31994	GUIDE - brake actuator	1
17	195- 533	WASHER - .531" I.D.	4
18	132- 310	PIN - cotter 1/8" x 1"	3
19	C 28978	CLEVIS	1
20	141- 54	PIN - clevis	1
21	132- 321	PIN - cotter	1
22	C 31993	ROD - brake (446, 448)	1
22	C 31992	ROD - brake (226)	1

FRONT AND REAR WHEELS

1	C 30913	WHEEL - rear, 5 bolt (226) for 23 x 8.50 - 12 tire	2
1	C 30917	WHEEL - rear, 6 bolt (446, 448) shown	2
1	C 30922	WHEEL - rear, 5 bolt (226) for 23 x 10.50 - 12 tire	2
2	C 27763	BOLT - rear wheel (446, 448)	12
2	C 10314	BOLT - rear wheel (226)	10
3	C 30912	WHEEL - front (includes bearings)	2
4	219- 403	FITTING - lubrication	2
5	C 12110	BEARING - wheel	2
6	C 28965	CAP - hub, front wheel (optional)	2
7	C 26021	CAP - plastic, front	2
8	C 28236	STEM - valve	4
	C 13106	COVER - lubrication fitting	2



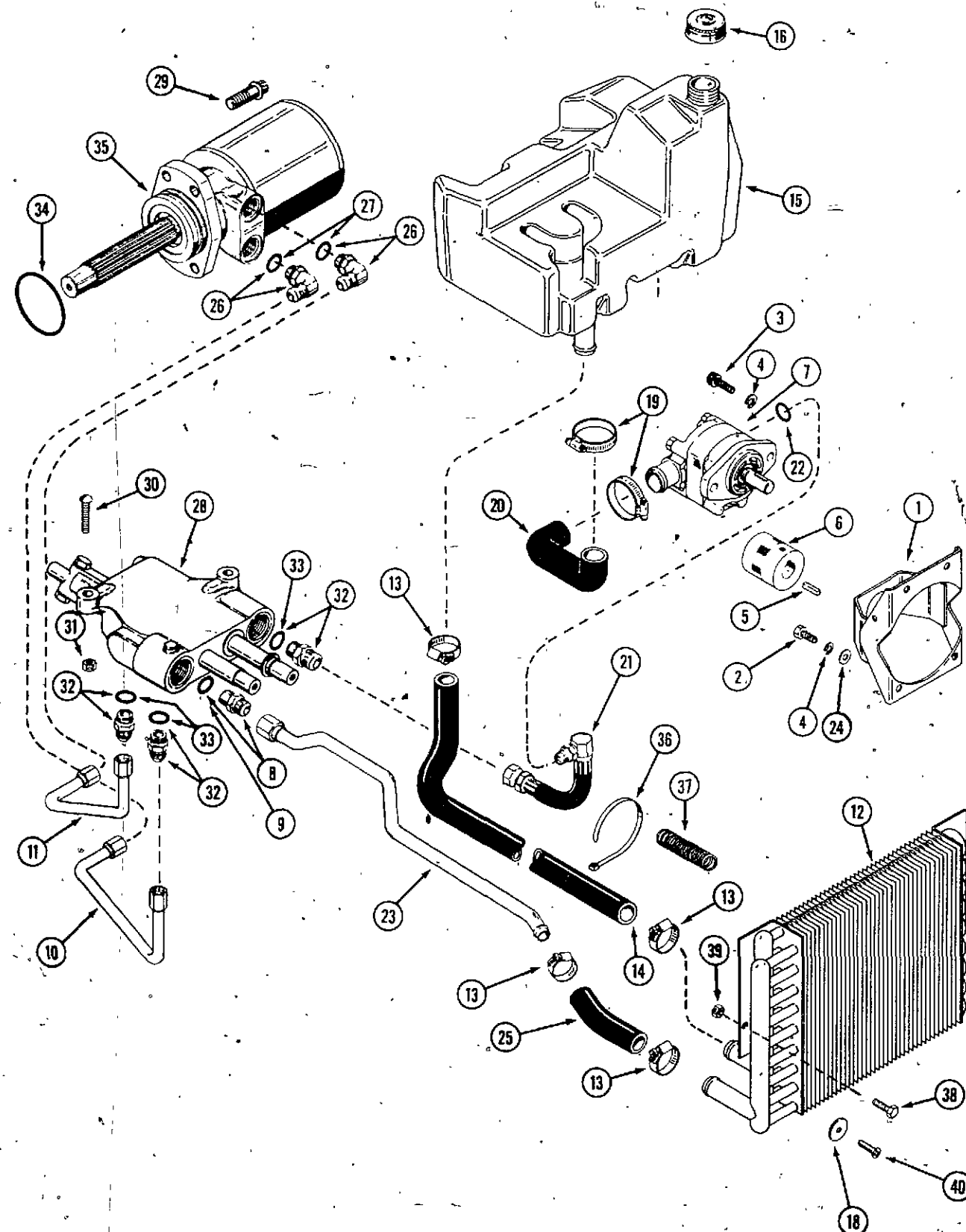
HYDRAULIC SYSTEM

Use before S/N:

226 - 14093640

446 - 14074315

448 - 14075995



REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26255	SUPPORT - pump mounting	1
2	113- 206	BOLT - 3/8" x 3/4" N.C hex, support mounting	4
3	62- 616	SCREW - 3/8" - 24 x 1" N.F. thread	2
4	192- 21	LOCK WASHER - 3/8" zinc	6
5	C 28321	KEY - square 1/4" x 3/4" (6.35 x 19.5 mm) (engine shaft)	1
6	C 18916	COUPLING - pump 1/2" shaft (repairs page 57)	1
7	C 26278	PUMP - hydraulic 1/2" shaft (repairs page 57)	1
8	218- 5065	FITTING - hydraulic 3/4" x 7/8" "O" ring	1
9	218- 5007	"O" RING	1
10	C 16794	TUBE - valve to lower motor port (226)	1
10	C 25333	TUBE - valve to lower motor port (446, 448)	1
11	C 16793	TUBE - valve to upper motor port (226)	1
11	C 25334	TUBE - valve to upper motor port (446, 448)	1
12	C 25784	EXCHANGER - heat (226, 446)	1
12	C 26456	EXCHANGER - heat (448) shown	1
13	214- 254	CLAMP - hose	4
14	C 29697	HOSE - rubber, tank to heat exchanger	1
15	NSS *	RESERVOIR - hydraulic oil (use C33176 kit)	1
15	NSS **	RESERVOIR - hydraulic shown (use C33177 kit)	1
16	C 25237	CAP - reservoir (includes insert)	1
18	C 28987	WASHER - .390" x 1.88" (226, 446)	2
19	214- 14	CLAMP - hose	2
20	C 24827*	HOSE - rubber, tank to pump	1
20	C 29309*	HOSE - rubber, tank to pump (shown)	1
21	C 18797	HOSE - hydraulic, pump to valve	1
22	218- 5006	"O" RING - 1/2"	1
23	C 26182	TUBE - valve to heat exchanger	1
24	195- 104	WASHER - 3/8"	4
25	NSS	HOSE - rubber (use C22902) cut to length 7" (180mm)	1
26	218- 5107	FITTING - motor port 90 degree elbow, "O" Ring	2
27	218- 5007	"O" RING - 5/8"	2
28	C 27217	VALVE - hydraulic control, two spool (repairs page 59)	1
29	166- 86	SCREW - 1/2" x 1-1/4" N.C. flanged 12 point)	4
30	182- 246	SCREW - 5/16" x 1-1/4" N.C. flat head machine	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	3
34	C 28949	SEAL - motor to transmission	1
35	C 14655	MOTOR - hydraulic (repairs page 53) (446, 448)	1
35	C 16697	MOTOR - hydraulic (repairs page 53) (226)	1
36	C 22947	TIE - hose clamp	2
37	C 26900	SPRING - compression (448)	1
38	113- 1	BOLT - 1/4" - 20 x 1/2" (448)	2
39	131- 1180	NUT - 1/4" - 20 lock (448)	2
40	187- 1252	SCREW - 1/4" Phillips (226, 446)	2

*Use before S/N:

**Use S/N and after:

226 - 14071775

446 - 14074175

448 - 14075830

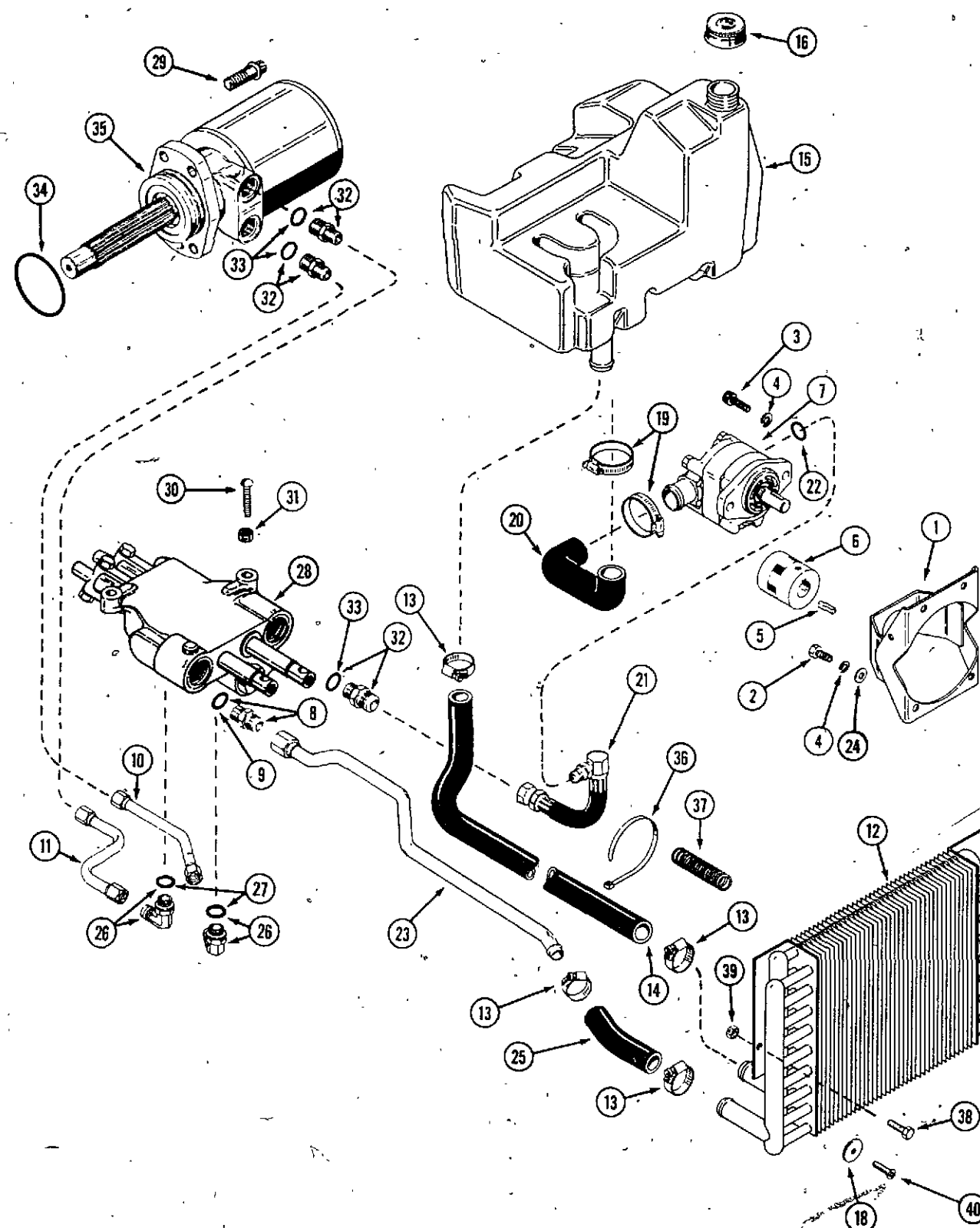
HYDRAULIC SYSTEM

Use S/N and after:

226 - 14093640

446 - 14074315

448 - 14075995



REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26255	SUPPORT - pump mounting	1
2	113- 206	BOLT - 3/8" x 3/4" N.C. hex, support mounting	4
3	62- 616	SCREW - 3/8" - 24 x 1" N.F. thread	2
4	192- 21	LOCK WASHER - 3/8" zinc	6
5	C 28321	KEY - square 1/4" x 3/4" (6.35 x 19.5 mm) (engine shaft)	1
6	C 18916	COUPLING - pump, 1/2" shaft (repairs page 57)	1
7	C 26278	PUMP - hydraulic 1/2" shaft (repairs page 57)	1
8	218- 5065	FITTING - hydraulic 3/4" x 7/8" "O" Ring	1
9	218- 5007	"O" RING	1
10	C 29656	TUBE - valve to lower motor port (226)	1
10	C 29658	TUBE - valve to lower motor port (446, 448) (shown)	1
11	C 29655	TUBE - valve to upper motor port (226)	1
11	C 29657	TUBE - valve to upper motor port (446, 448) (shown)	1
12	C 25784	EXCHANGER - heat (226, 446)	1
12	C 26456	EXCHANGER - heat (448) shown	1
13	214- 254	CLAMP - hose	4
14	C 29697	HOSE - rubber, tank to heat exchanger	1
15	NSS	RESERVOIR - hydraulic (use C33177 kit)	1
16	C 25237	CAP - reservoir (includes insert)	1
18	C 28987	WASHER - .390" x 1.88" (226, 446)	2
19	214- 14	CLAMP - hose	2
20	C 29309	HOSE - rubber, tank to pump	1
21	C 18797	HOSE - hydraulic, pump to valve	1
22	218- 5006	"O" RING - 1/2"	1
23	C 26182	TUBE - valve to heat exchanger	1
24	195- 104	WASHER - 3/8"	4
25	NSS	HOSE - rubber (use C29697) cut to length 7" (180mm)	1
26	218- 5107	FITTING - motor port 90 degree elbow, "O" Ring	2
27	218- 5007	"O" RING - 5/8"	2
28	C 29689	VALVE - hydraulic control, two spool (repairs page 61)	1
29	166- 86*	SCREW - 1/2" x 1-1/4" N.C. flanged 12 point	4
29	166- 85*	SCREW - 1/2" x 1" flanged 12 point	4
30	C 27764	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	3
34	C 28949	SEAL - motor transmission	1
35	C 14655*	MOTOR - hydraulic (repairs page 53) (446, 448)	1
35	C 16697*	MOTOR - hydraulic (repairs page 53) (226)	1
35	C 33234*	MOTOR - hydraulic (repairs page 53) (446, 448)	1
35	C 30939*	MOTOR - hydraulic (repairs page 53) (226)	1
36	C 22947	TIE - hose clamp	2
37	C 26900	SPRING - compression (448)	1
38	113- 1	BOLT - 1/4" - 20 x 1/2" (448)	2
39	131- 1180	NUT - 1/4" - 20 lock (448)	2
40	187- 1252	SCREW - 1/4" Philips (226, 446)	2

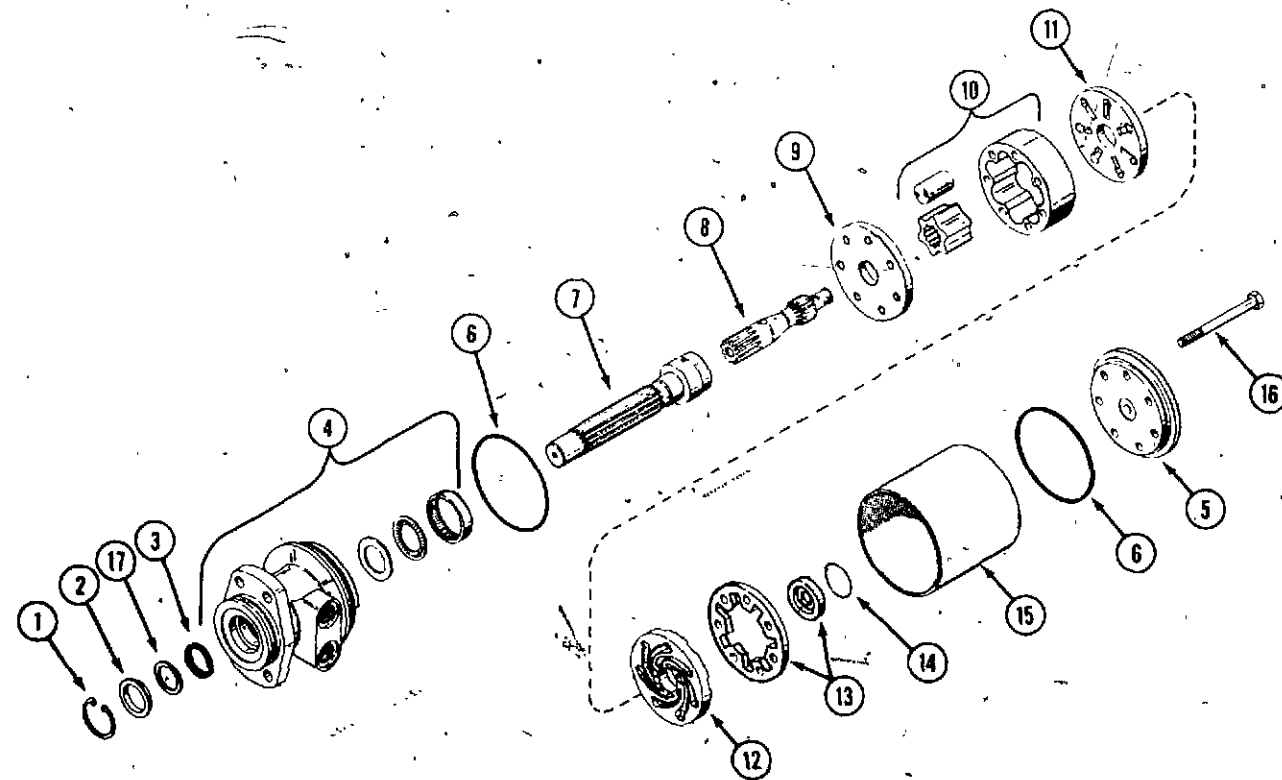
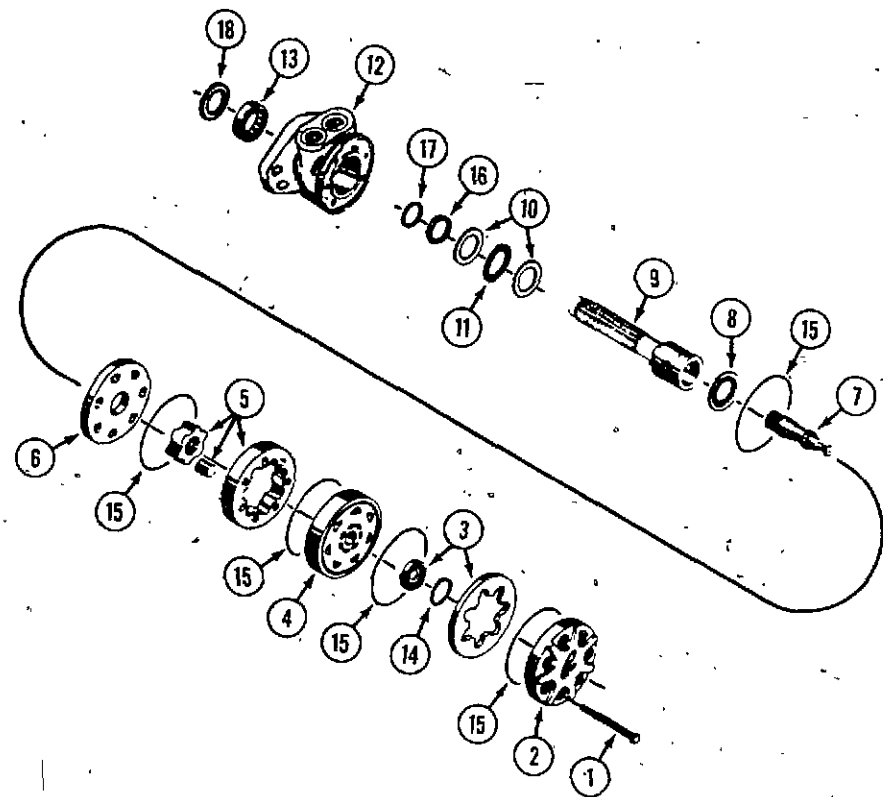
*Use before S/N:

**Use S/N and after:

226 - 14110325

446 - 14112435

448 - 14113810



HYDRAULIC DRIVE MOTOR

Use S/N and after:

226 - 14110325

446 - 14112435

448 - 14113810

REF.	PART NO.	DESCRIPTION	REQ'D
	C 33234	MOTOR - hydraulic (446, 448)	1
	C 30939	MOTOR - hydraulic (226)	1
1	28- 668	BOLT - 3/8" - 24 x 4-1/4" (226)	7
2	C 31327	BOLT - 3/8" - 24 x 4-5/8" (446, 448)	7
3	C 31309	COVER - end	1
4	C 31310	COMMUTATOR AND RING SET	1
5	C 31311	MANIFOLD	1
5	C 31312	ROTOR ASSEMBLY - (226)	1
5	C 31313	ROTOR ASSEMBLY - (446, 448)	1
6	C 31314	PLATE - wear	1
7	C 31315	LINK - drive (226)	1
7	C 31316	LINK - drive (446, 448)	1
8	C 31317	BEARING - thrust	1
9	C 31318	SHAFT - coupling	1
10	C 31319	WASHER - thrust	2
11	C 31320	BEARING - thrust	1
12	C 31321	HOUSING - drive end	1
13	C 31322	BEARING - outer	1
	C 31323	KIT - seal	1
14	NSS	SEAL - commutator ring	1
15	NSS	SEAL - ring	5
16	NSS	SEAL - ring	1
17	NSS	WASHER - backup	1
18	NSS	SEAL - dirt (not used)	1

HYDRAULIC DRIVE MOTOR

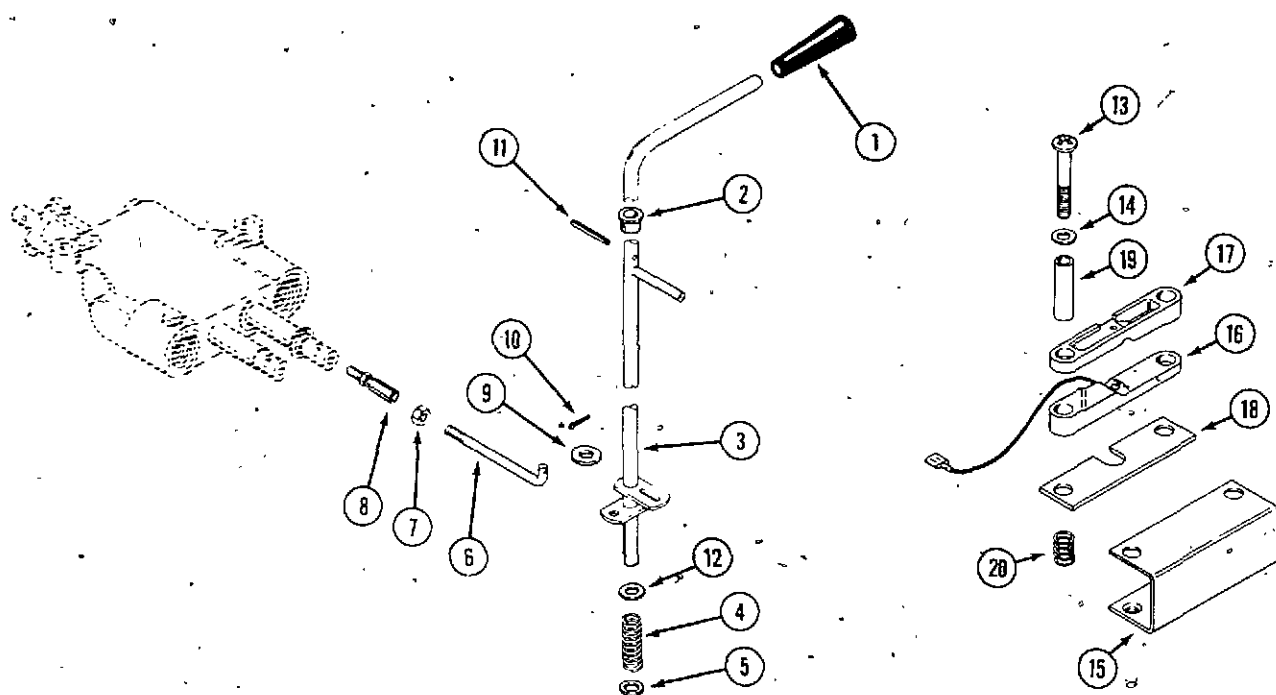
Use before S/N:

226 - 14110325

446 - 14112435

448 - 14113810

	C 16697	MOTOR - hydraulic (226)	1
	C 14655	MOTOR - hydraulic (446, 448)	1
1	C 16516	RING - retaining	1
2	C 19040	SPACER - (see kit below)	1
3	C 25048	SEAL - oil (see kit below)	1
4	C 14827	HOUSING ASSEMBLY	1
5	C 14837	END CAP	1
6	C 18382	SEAL - (see kit below)	2
7	C 14828	SHAFT - coupling	1
8	C 14829	DRIVE LINK - 446, 448	1
8	C 28704	DRIVE LINK - 226	1
9	C 14830	PLATE - wear	1
10	C 14831	ROTOR ASSEMBLY - 446, 448	1
10	C 18110	ROTOR ASSEMBLY - 226	1
11	C 28703	PLATE - manifold	1
12	C 28874	MANIFOLD	1
13	C 28701	COMMUTATOR AND RING SET	1
14	C 19041	RING - sealing (see kit below)	1
15	C 14836	SLEEVE - 446, 448	1
15	C 18092	SLEEVE - 226	1
16	28- 662	BOLT - 3/8" x 3-7/8" N.F. hex (226)	1
16	C 14838	BOLT - 3/8" x 4-3/8" N.F. hex (446, 448)	7
17	C 19212	WASHER - .010" (0.25mm) (see kit below)	1
	C 29732	KIT - "O" ring and seal (includes items 2, 3, 6, 11, 12, 14 and 17)	1



SPEED CONTROL

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 29047	KNOB - speed control	1
1	C 27593	BUSHING - lever	1
3	C 29407*	LEVER - speed control (shown)	1
3	C 30128**	LEVER - speed control	1
4	C 29645	SPRING - compression	1
5	C 21518	WASHER - nylon	1
6	C 18742	ROD - control	1
7	129- 122	NUT - 5/16" N.F. hex, zinc plated	1
8	C 19025	JOINT - ball	1
9	195- 521	WASHER - 5/16"	1
10	132- 320	PIN - cotter 3/32" x 3/4"	1
11	138- 2072	PIN - roll 1/8" x 1-3/4"	1
12	195- 533	WASHER	1
	C 29646*	LOCATOR ASSEMBLY - neutral start	1
	C 30130**	LOCATOR ASSEMBLY - neutral start	1
13	C 29647	SCREW - 1/4" - 20 black	2
14	C 29648	WASHER - nylon	2
15	C 29649*	CARRIER - locator	1
15	C 30133**	CARRIER - locator	1
16	C 29650	SWITCH - neutral start	1
17	C 29651*	LOCATOR - half	1
17	C 30450**	LOCATOR - light switch	1
18	C 29652	SUPPORT - locator	1
19	C 29653	SPACER - tube	2
20	C 30827	SPRING - locator	2

*Use before S/N:

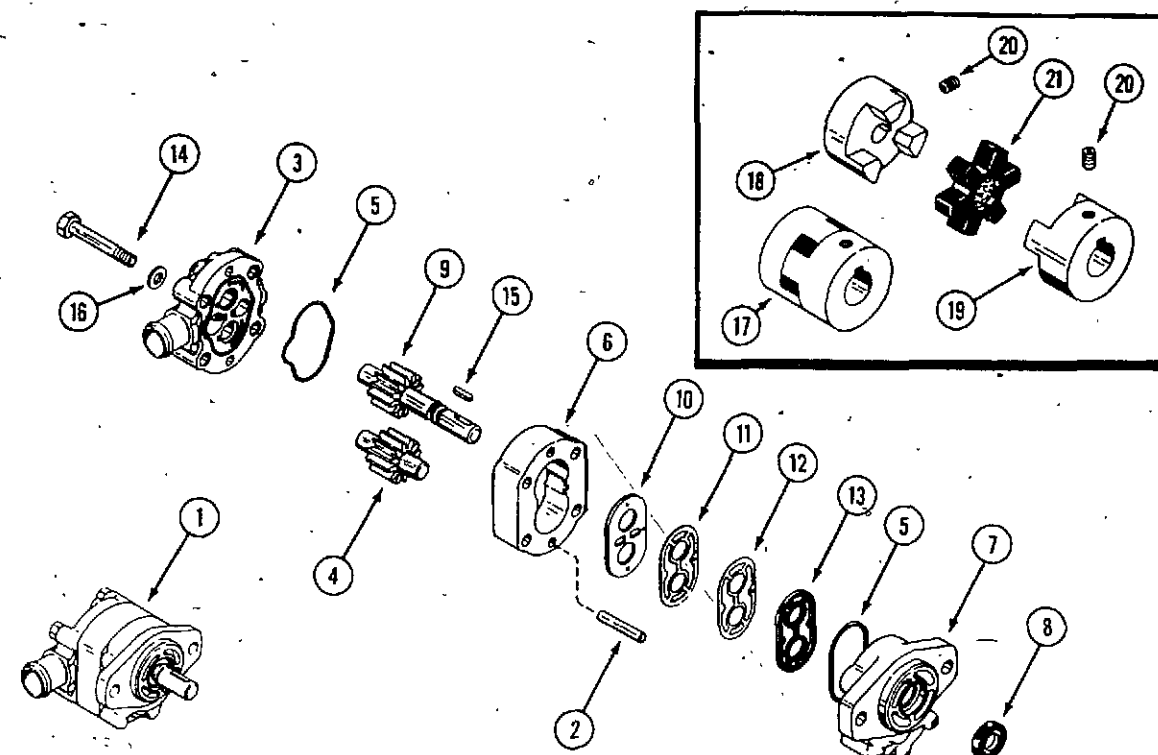
**Use S/N and after:

226 - 14094020

446 - 14096200

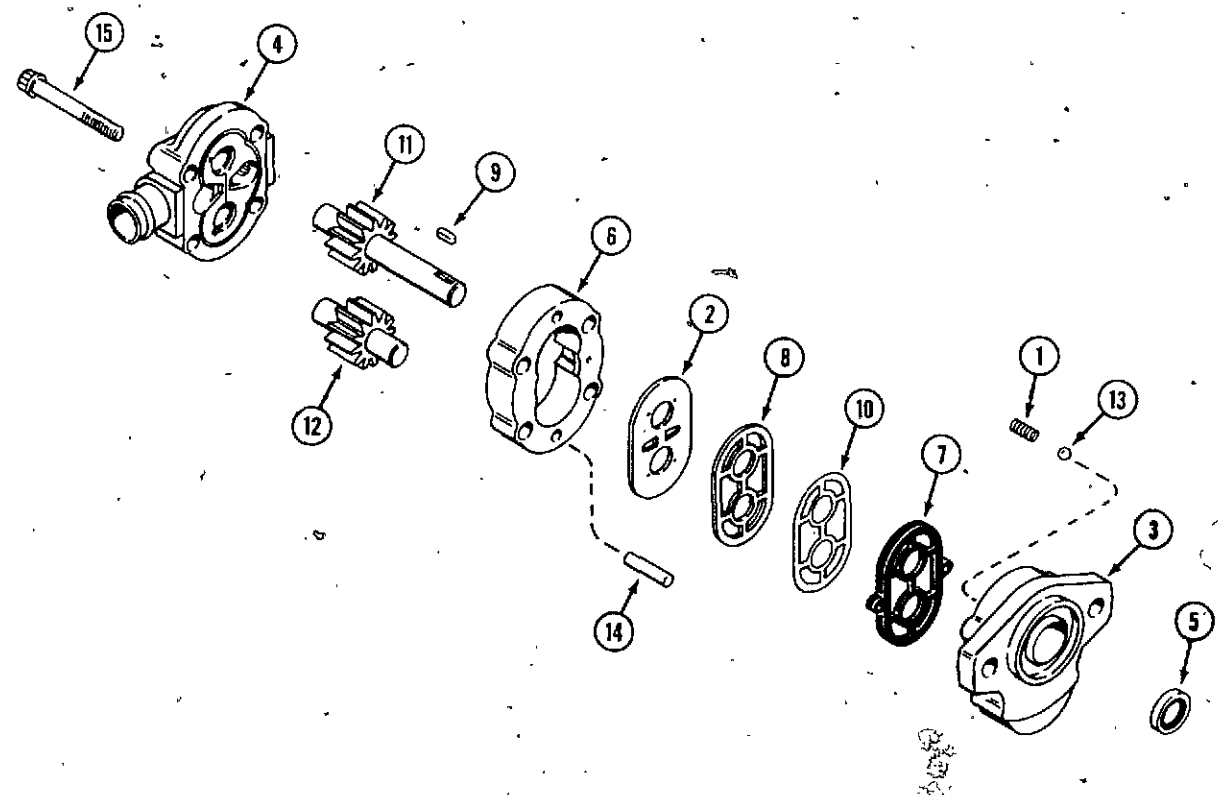
448 - 14097625

HYDRAULIC PUMP AND COUPLING (PARKER-HANNIFIN)

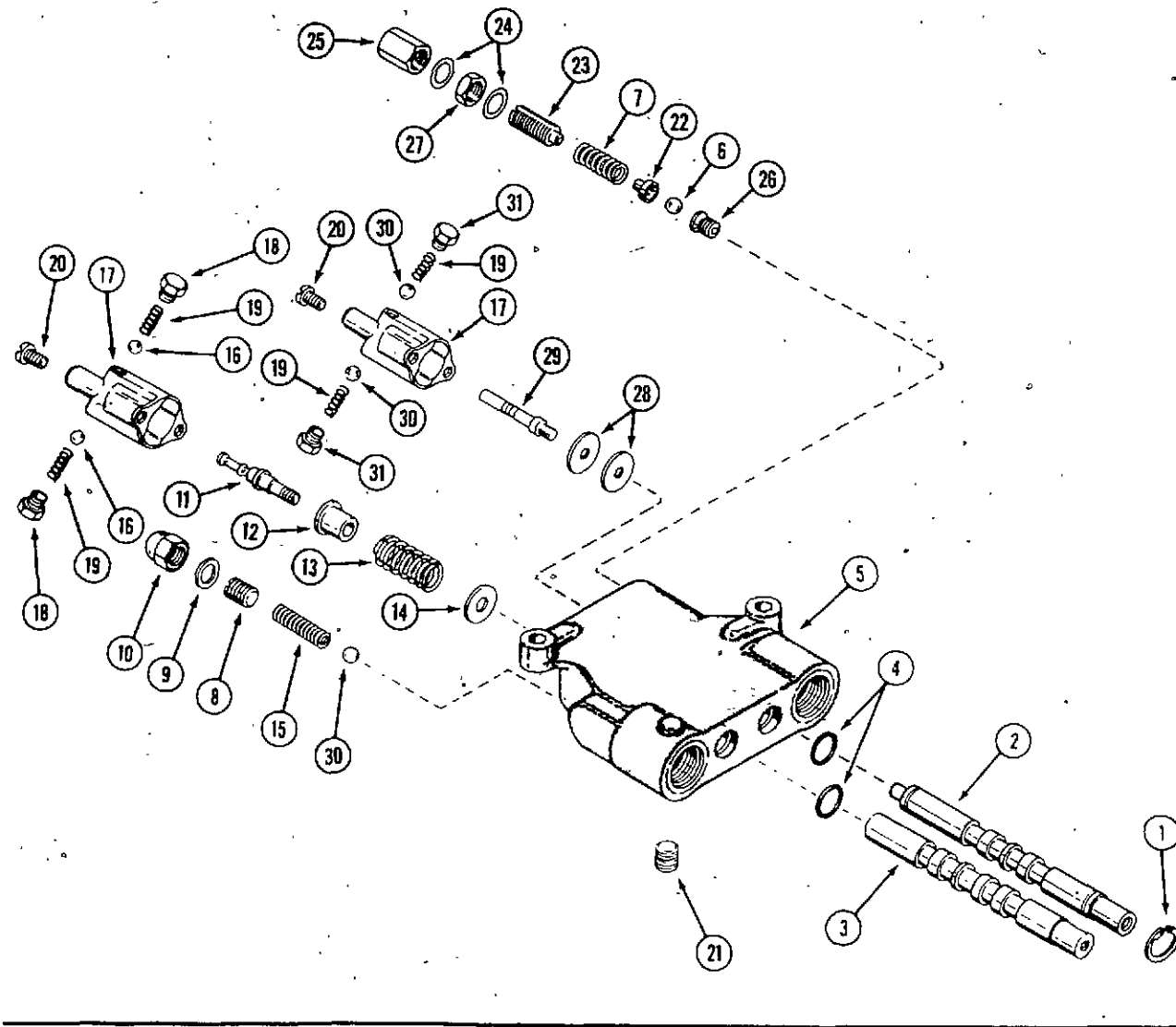


REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26278	PUMP - hydraulic 1/2" shaft	1
2	F 53109	PIN - dowel	2
3	C 24861	COVER - rear	1
4	C 15731	GEAR ASSEMBLY - driven	1
5	C 15732	"O" RING - cover	2
6	C 15733	BODY - pump	1
7	C 15734	COVER - front	1
8	C 15735	SEAL - shaft	1
9	NSS	GEAR ASSEMBLY - drive (1/2" shaft) (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 (1.587 mm x 19.05 mm)	1
16	C 19115	WASHER	4
17	C 18916	COUPLING - pump	1
18	NSS	HUB - (order item 17)	1
19	NSS	HUG - (order item 17)	1
20	C 32199	SCREW - set 5/16" x 5/16" NC socket head	2
21	C 15036	SPIDER	1

HYDRAULIC PUMP (CESSNA)



REF.	PART NO.	DESCRIPTION	REQ'D
	NSS	PUMP - hyd. (use C26278)	1
1	C 28709	SPRING	2
2	C 28718	DIAPHRAGM - wear plate	1
3	NSS	COVER - front (use C26278)	1
4	NSS	COVER - rear (use C26278)	1
5	C 28711	SEAL - shaft	1
6	NSS	BODY - pump (use C26278)	1
7	C 28712	SEAL - diaphragm	1
8	C 28714	GASKET - back up	1
9	C 28215	KEY - 3/16" square x .609" (4.76 mm x 15.47 mm)	1
10	C 28713	GASKET - back up	1
11	NSS	GEAR - drive (use C26278)	1
12	NSS	GEAR - driven (use C26278)	1
13	211- 306	BALL - steel 7/32" (5.55 mm)	2
14	C 28715	PIN - dowel 1/4" x 1-1/4" (6.35 mm x 31.75 mm)	2
15	166- 32	BOLT - 5/16" - 18 x 2-1/2" 12 point flange	4



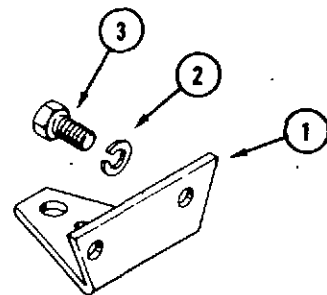
HYDRAULIC CONTROL VALVE

Use before S/N:
 226 - 14093640
 446 - 14074315
 448 - 14075995

REF.	PART NO.	DESCRIPTION	REQ'D
	C 27217	VALVE - control, two spool	1
1	C 28699	RING - retaining	2
2	NSS	SPOOL - motor (order C27217)	1
3	NSS	SPOOL - lift (order C27217)	1
4	C 28856	SEAL - spool	4
5	NSS	BODY - valve (order C27217)	1
6	211- 208	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	C 28707	SPACER - detent	1
13	C 28706	SPRING - detent return	1
14	C 28705	WASHER - return	1
15	NSS	SPRING - relief (use C21511 relief kit)	1
16	211- 5	BALL - steel 3/16" (4.763 mm)	3
17	C 17438	COVER - detent	1
18	C 28708	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
	C 21511	KIT - relief (includes items 8, 9, 10, 15 and 30)	1

DRAWBAR AND TOW HITCH

1	C 13360	DRAWBAR	1
2	192- 23	LOCK WASHER - 1/2"	2
3	113- 424	BOLT - 1/2" x 1" N.C. hex	2



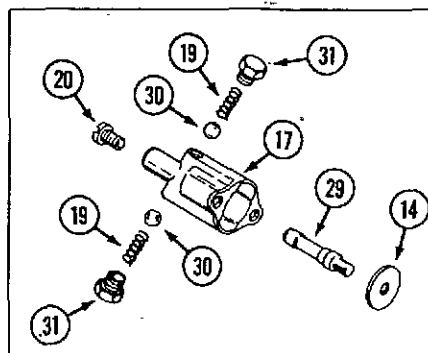
HYDRAULIC CONTROL VALVE

Use S/N and after:

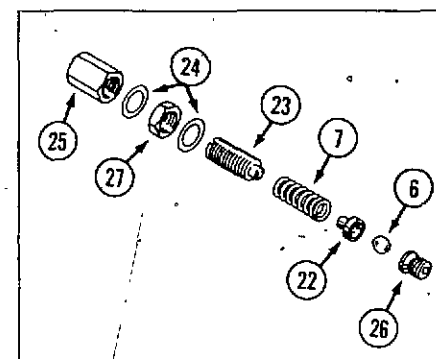
226 - 14093640

446 - 14074315

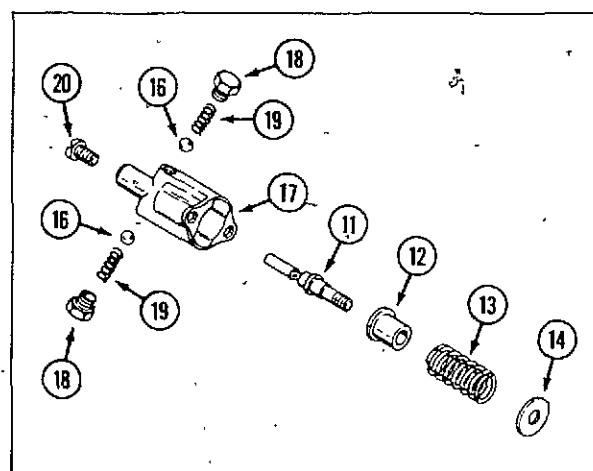
448 - 14075995



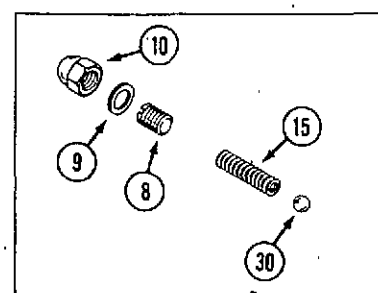
TRAVEL SECTION DETENT GROUP



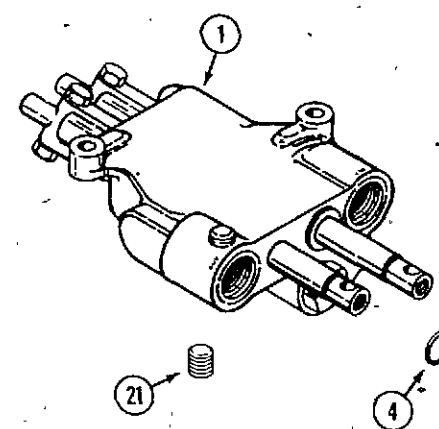
TRAVEL SECTION RELIEF GROUP



LIFT SECTION DETENT GROUP



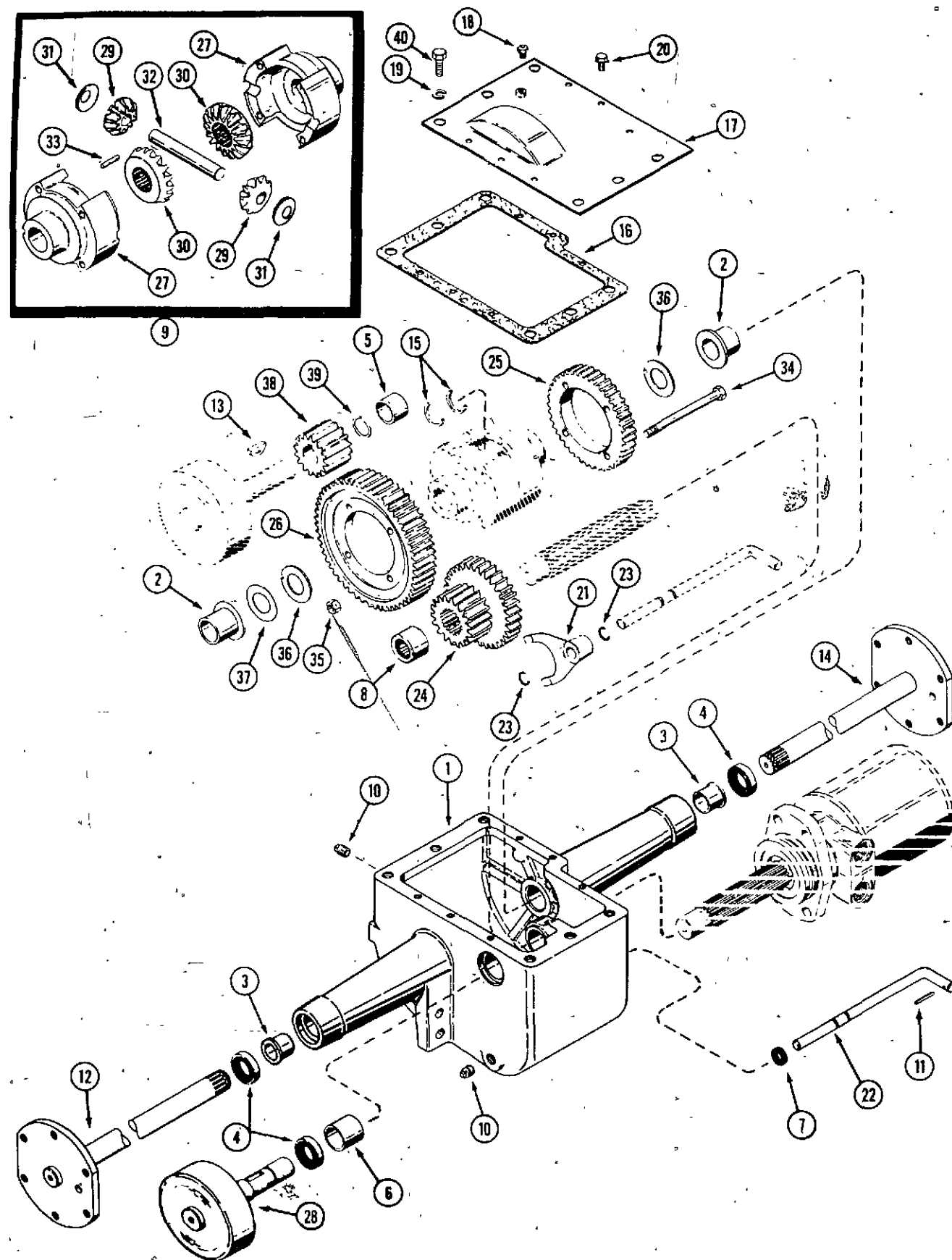
LIFT SECTION RELIEF GROUP



HOLDING SECTION GROUP

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 29689	VALVE - control, two-spool	1
2	C 29956	CAP - end	2
3	C 28217	"O" RING - end cap	1
4	C 28856	SEAL - spool	4
5	C 29951	SPRING - centering	2
6	211- 208	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	C 28707	SPACER - detent	1
13	C 28706	SPRING - detent return	1
14	C 28705	WASHER - return	2
15	NSS	SPRING - relief (use C21511 relief kit)	1
16	211- 5	BALL - steel 3/16" (4.76 mm)	2
17	C 17438	COVER - detent	1
18	C 28708	SCREW - detent	2
19	C 17444	SPRING - detent	4
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	C 29950	WASHER - spring retaining	2
29	C 29958	DETENT - spool	1
30	211- 7	BALL - steel 1/4" (6.35 mm)	2
31	C 17443	SCREW - detent	2
	C 30002	KIT - seal	1

TRANSMISSION AND FINAL DRIVE



REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24843	CASE ASSEMBLY - transmission	1
	NSS	CASE - transmission (order C24843 assembly)	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	C 28281	BEARING - roller	1
9	C 30029	DIFFERENTIAL ASSEMBLY (also includes C30030, C30031, C12552)	1
10	221- 3	PLUG - filler and drain 3/8"	3
11	138- 2073	PIN - roll 3/16" x 1-1/4"	1
12	C 16699	SHAFT - axle, short R.H. (226)	1
12	C 22638	SHAFT - axle, short R.H. (446, 448) shown	1
13	126- 128	KEY - Woodruff, brake idler	1
14	C 16700	SHAFT - axle, long L.H. (226)	1
14	C 22637	SHAFT - axle, long L.H. (446, 448) shown	1
15	C 26342	RING - retainer, axle	2
16	C 13196	GASKET - transmission cover	1
17	C 13197	COVER - transmission	1
18	C 28241	BREATHER - transmission	1
19	192- 23	LOCK WASHER - 1/2"	4
20	121- 21	BOLT - 1/4" x 1/2" N.C. hex lock	6
21	C 12725	FORK - shift	1
22	C 32486	ROD - gear shift	1
23	C 14168	RING - retaining	2
24	C 14644	GEAR - cluster input	1
25	NSS *	GEAR - high 41 tooth (shown) use C30030 and C30031	1
25	C 30030*	GEAR - high 41 tooth	1
26	C 12552	GEAR - low 55 tooth	1
27	NSS	DIFFERENTIAL CASE	1
28	C 33305	BRAKE DRUM	1
29	NSS	GEAR - differential pinion	2
30	NSS	GEAR - differential	2
31	NSS	WASHER - pinion thrust	2
32	NSS	PIN - differential	1
33	NSS	PIN - differential pin lock	1
34	28- 608	SCREW - 3/8" x 5" N.F. hex cap (shown)	4
34	C 30031**	KIT - screw (set of four)	1
35	131- 1133	NUT - lock 3/8" N.F. hex	4
36	C 12718	WASHER - differential	2
37	C 14223	WASHER - spacer	UAR
38	C 25254	GEAR - brake idler	1
39	C 14222	RING - retainer, brake idler	1
40	113- 424	BOLT - 1/2" - 13 x 1" hex	UAR
40	166- 86	BOLT - 1/2" - 13 x 1-1/4" flange	UAR

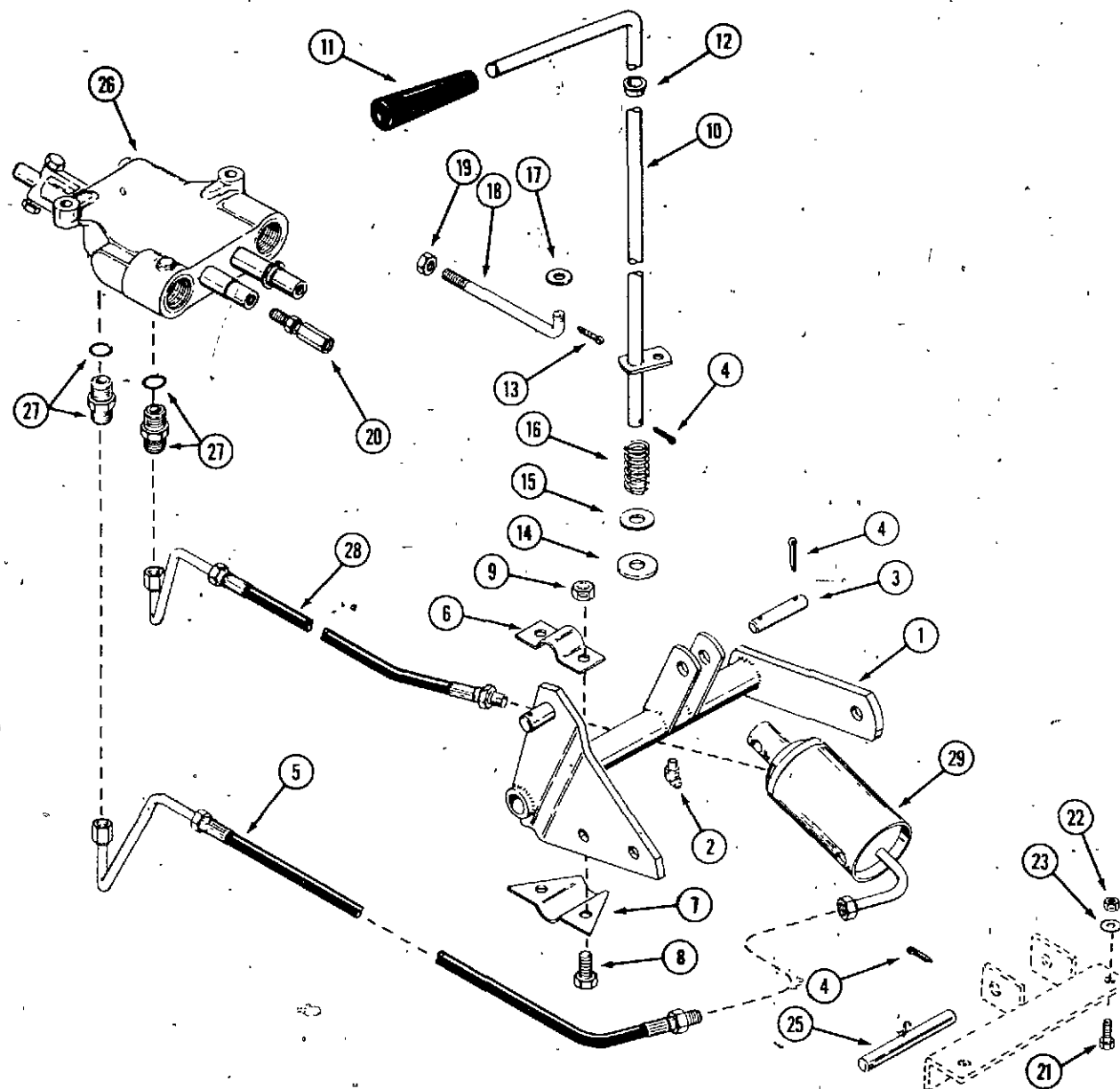
*Use before S/N:

**Use S/N and after:

226 - 14093844

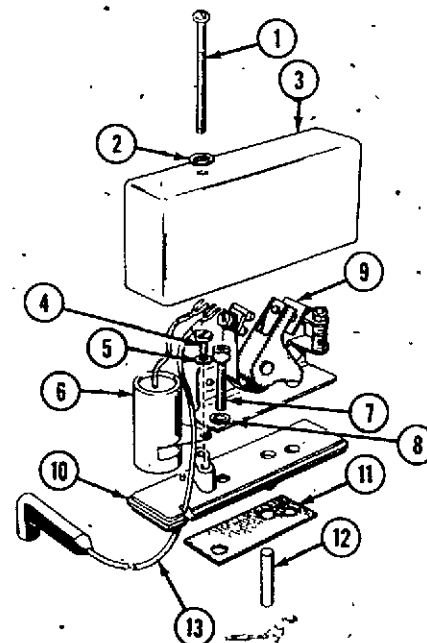
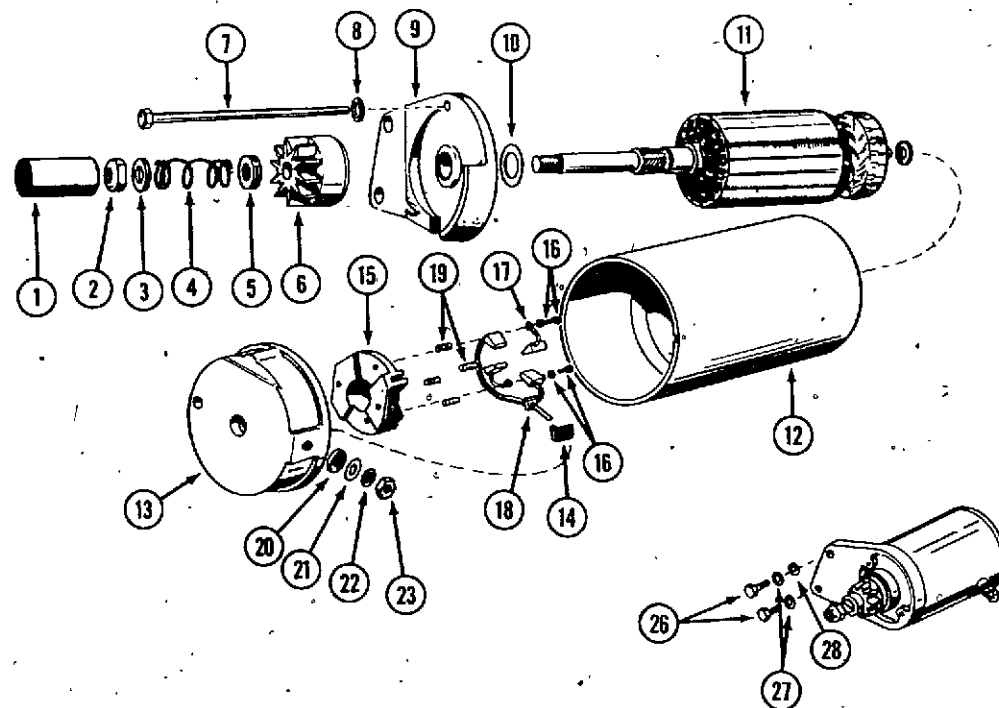
446 - 14095849

448 - 14097305



HYDRAULIC LIFT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 19661	SHAFT ASSEMBLY - lift	1
2	219- 404	FITTING - lubrication	1
3	C 18251	PIN - cylinder to lever	1
4	132- 310	PIN - cotter 1/8" x 1"	5
5	C 17734	HOSE - long	1
6	C 17249	BRACKET - mounting, top	2
7	C 17250	BRACKET - mounting, bottom	2
8	113- 207	BOLT - 3/8" x 1" N.C. hex	4
9	131- 1181	NUT - 3/8" N.C. hex	4
10	C 29408	LEVER - lift control	1
11	C 29045	KNOB - control lever	1
12	C 27593	BUSHING - lift lever	1
13	132- 320	PIN - cotter 3/32" x 3/4"	1
14	195- 533	WASHER - 1/2"	1
15	C 21518	WASHER - nylon	1
16	C 27822	SPRING - control lever	1
17	195- 521	WASHER 5/16"	1
18	C 18742	ROD - control	1
19	129- 122	NUT - 5/16" N.F. hex	1
20	C 19025	BALL JOINT	1
21	113- 207	BOLT - 3/8" x 1" N.C. hex	2
22	131- 1181	NUT - lock 3/8" N.C. hex	2
23	195- 104	WASHER - 3/8" x 1-1/8" O.D.	2
25	C 26188	PIN - cylinder base	1
26	C 27217	VALVE - hydraulic, two spool	1
27	218- 5056	FITTING - valve (includes 218-5004 "O" ring)	2
28	NSS	HOSE - short (use C31682 and 218-1093)	1
29	NSS	CYLINDER - lift (use C27590 cylinder and C30049 pin)	1
	C 30054	KIT - seal	1
	C 13106	COVER - lubrication fitting	1

**C29733 STARTER MOTOR**

REF.	PART NO.	DESCRIPTION	REQ'D
	C 26508	KIT - dust cover	1
1	NSS	COVER - dust	1
2	NSS	NUT - stop	1
3	NSS	WASHER - stop nut	1
4	NSS	SPRING - tension	1
5	NSS	SPACER - dust cover	1
6	C 20274	DRIVE ASSEMBLY	1
7	C 20278	BOLT - through	2
8	192- 19	LOCK WASHER - through bolt	2
9	C 20333	CAP ASSEMBLY - drive end	1
10	C 20334	WASHER - thrust, armature	1
11	C 20335	ARMATURE - starter motor	1
12	NSS	HOUSING - starter, order C29733 starter	1
13	C 20336	CAP ASSEMBLY - commutator	1
14	NSS	BUSHING - insulating	1
15	NSS	HOLDER - brush	1
16	NSS	SCREW AND LOCK WASHER - brush mounting	2
	C 20337	KIT - brush and spring	1
17	NSS	BRUSH - ground	2
18	NSS	STUD AND BRUSH ASSEMBLY	2
19	NSS	SPRING - brush	4
20	NSS	WASHER - insulating	1
21	NSS	WASHER - stud mounting	1
22	NSS	LOCK WASHER - stud mounting	1
23	NSS	NUT - stud mounting	1
24	193- 57	LOCK WASHER - external tooth 1/4"	1
25	129- 101	NUT - 1/4" - 20	1
26	113- 103	BOLT - 5/16" x 1" N.C.	2
27	192- 20	LOCK WASHER - 5/16"	2
28	195- 102	WASHER - 5/16"	2

BREAKER CONTACT ASSEMBLY

	C 29990	BREAKER CONTACT ASSEMBLY	1
1	182- 520	SCREW - No. 10 - 24 x 1-1/2"	1
2	195- 513	WASHER - No. 10	1
3	C 23854	COVER - breaker box (includes items 1 and 2)	1
4	182- 545	SCREW - No. 8 - 32 x 5/16" self tapping	1
5	192- 16	LOCK WASHER - No. 8	1
6	C 29991	CONDENSER - ignition	1
7	165- 143	SCREW - 1/4" - 20 x 3/4"	2
8	192- 402	LOCK WASHER - 1/4"	2
9	C 29736	CONTACTS - breaker	1
10	C 25100	BASE - breaker box	1
11	C 20345	GASKET - breaker box	1
12	C 20347	PLUNGER - breaker box	1
13	C 29992	LEAD - breaker to coil negative	1

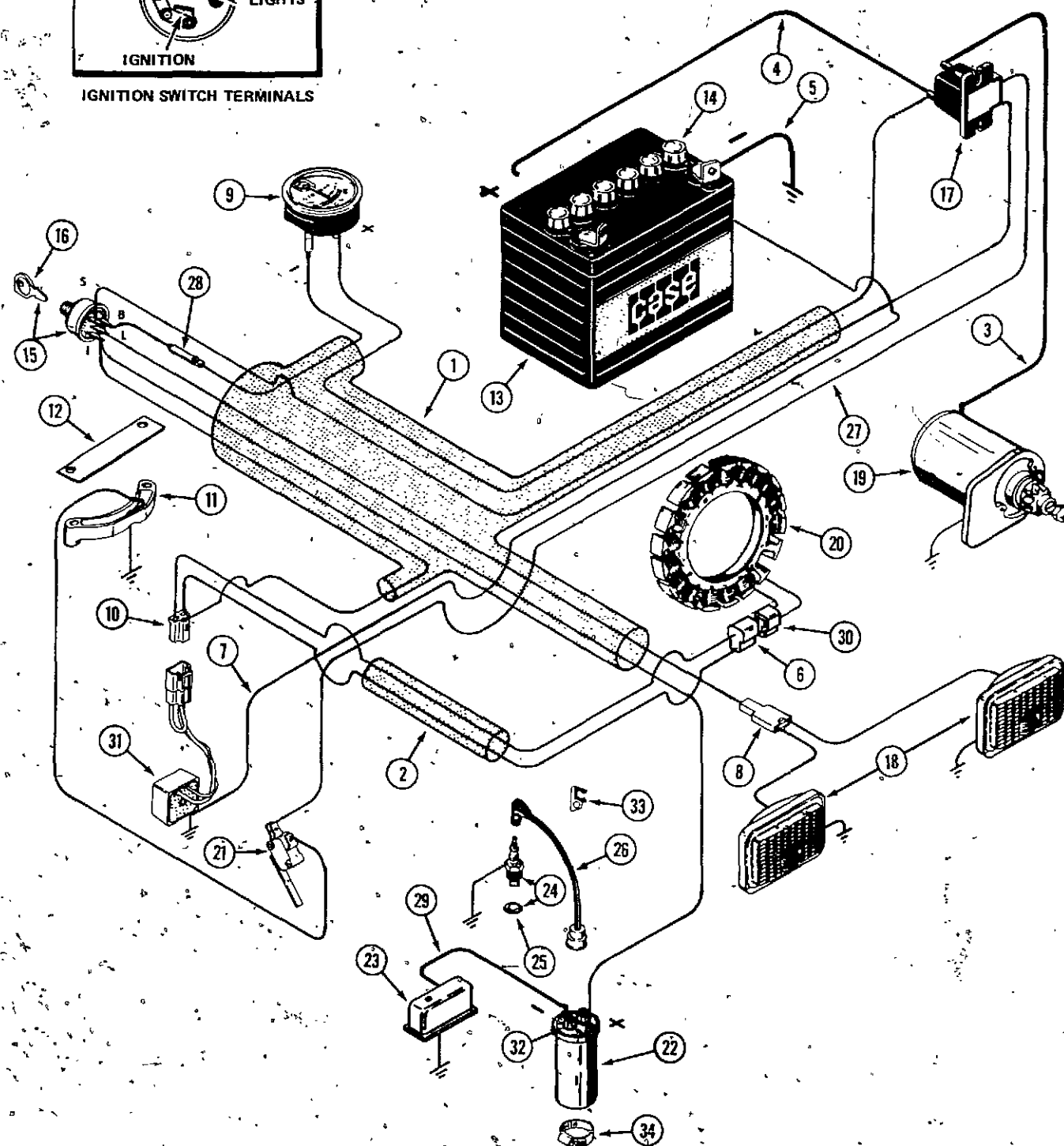
ELECTRICAL SYSTEM

Use before S/N:

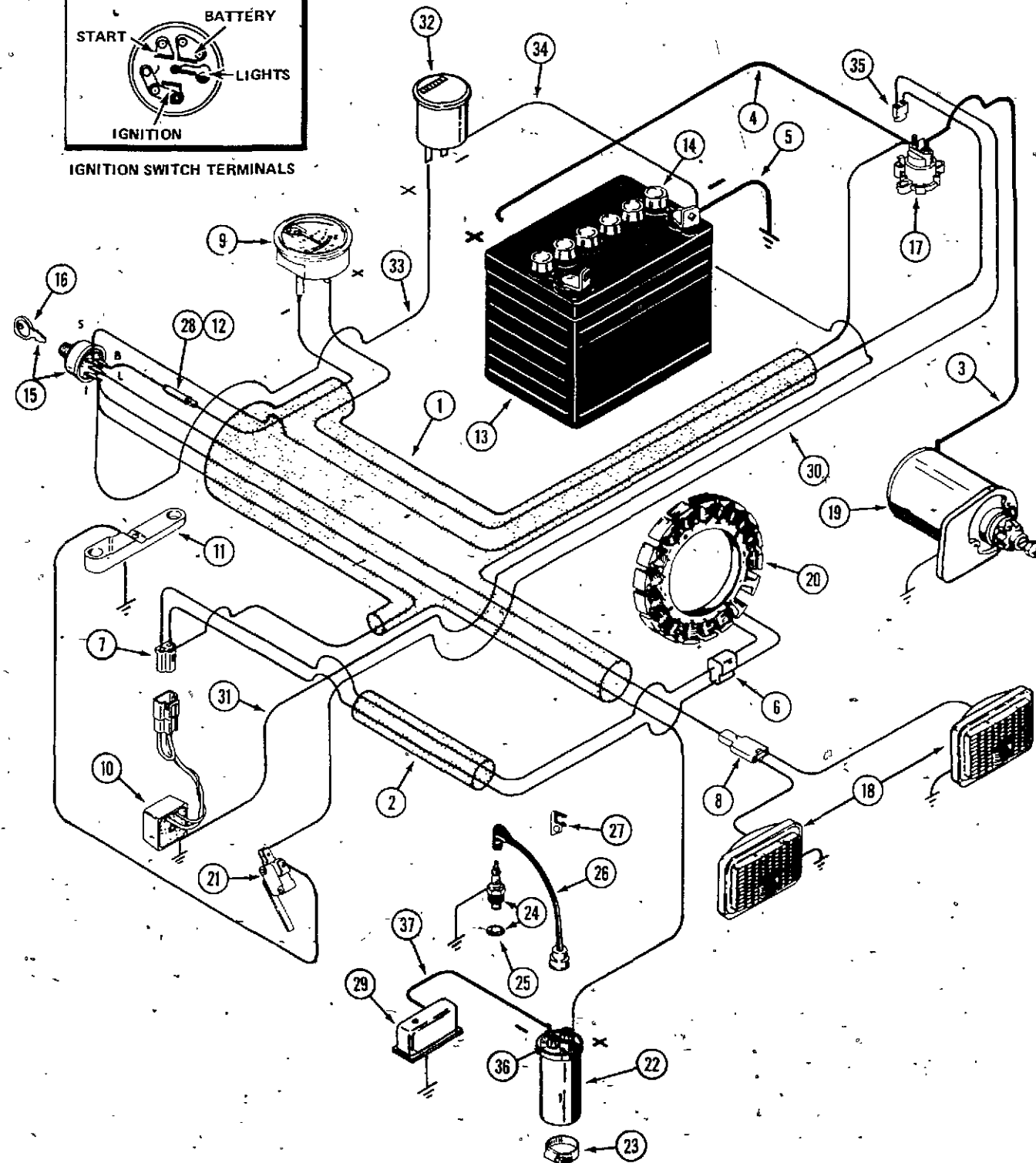
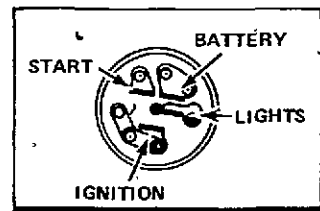
226 - 14057822

446 - 14060238

448 - 14062271



REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25564	HARNESS - wire	1
2	C 24815	HARNESS - wire	1
3	C 24809	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 - stator	1
7	C 26670	WIRE - rectifier to battery negative	1
8	C 14537	CONNECTOR - lights	1
9	C 29413	AMMETER - 30 amperes, 12v	1
10	C 25486	CONNECTOR - rectifier	1
11	C 28003	SWITCH - neutral start (includes wire)	1
12	C 21989	INSULATOR - locator	1
13	NSS	BATTERY - 12v (use C31213)	1
14	C 18113	CAP - battery	6
15	C 30268	SWITCH ASSEMBLY - ignition	1
16	C 32407	KEY - ignition	1
17	NSS	SOLENOID - start, 12v (use C33025 kit)	1
18	C 32178	HEADLIGHT ASSEMBLY - 12v (repairs page 77)	2
19	C 29733	STARTER - (repairs page 67)	1
20	C 24956	STATOR	1
21	C 26108	SWITCH - neutral start PTO	1
22	C 29752	COIL - ignition, 12v (includes caps)	1
23	C 29990	BREAKER CONTACT ASSEMBLY - ignition (repairs page 67)	1
24	C 25845	SPARK PLUG - (includes gasket)	2
25	C 28673	GASKET - spark plug	1
26	C 32299	WIRE - spark plug	2
27	C 25563	WIRE - solenoid to switch	1
28	223- 30	FUSE - 30 amperes (included in harness)	1
28	NSS	HOLDER - fuse, 30 amperes (use C31947)	1
29	C 29992	WIRE - breaker contacts to coil negative	1
30	C 25338	CONNECTOR - stator	1
31	C 31249	RECTIFIER - voltage 12v	1
32	C 25227	CAP - coil (included with coil)	1
33	C 20344	RETAINER - cable	1
34	214- 258	CLAMP - coil mounting	1



ELECTRICAL SYSTEM

Use S/N:

226 - 14057822 to 14094020

446 - 14060238 to 14096200

448 - 14062271 to 14097625

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 27527	HARNESS - wire	1
2	C 24815	HARNESS - wire	1
3	C 29410	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 - wire harness	1
6	C 25338	CONNECTOR - stator	1
7	C 25486	CONNECTOR - rectifier	1
8	C 14537	CONNECTOR - lights	1
9	C 29413	AMMETER - 30 amperes, 12v	1
10	C 31249	RECTIFIER - voltage, 12v	1
11	C 28003+	SWITCH - neutral start (includes wire)	1
11	C 29646+	LOCATOR ASSEMBLY - neutral start (see page 55)	1
12	NSS	HOLDER - fuse, 30 amp (use C31947)	1
13	NSS	BATTERY - 12v (use C31213)	1
14	C 18113	CAP - battery (screw type)	6
14	C 29074	CAP - battery (push type)	6
15	C 30268	SWITCH - ignition (includes key and mounting hardware)	1
16	C 32407	KEY - ignition	1
17	NSS	SOLENOID - start, 12v (use C33025)	1
18	C 32178	HEADLAMP ASSEMBLY - 12v (repairs page 77)	2
19	C 29733	STARTER - bendix drive (repairs page 67)	1
20	C 24956	STATOR	1
21	C 26108	SWITCH - neutral start PTO	1
22	C 29752	COIL - ignition, 12v	1
23	214- 258	CLAMP - coil mounting	1
24	G 25845	SPARK PLUG - (includes gasket)	2
25	C 28673	GASKET - spark plug	1
26	C 32299	WIRE - spark plug	2
27	C 20344	RETAINER - cable	1
28	223- 30	FUSE - 30 amperes (included in harness)	1
29	C 29990	BREAKER CONTACT ASSEMBLY - ignition (repairs page 67)	1
30	C 27530	WIRE - solenoid to neutral start	1
31	C 26670	WIRE - ground, rectifier to battery negative	1
32	C 28304*	HOURLY METER	1
32	C 31623**	HOURLY METER - shown	1
33	C 29411	WIRE - hourmeter to ignition switch	1
34	C 29412	WIRE - hourmeter to battery negative (-)	1
35	C 27549	CONNECTOR - solenoid	1
36	C 25227	CAP - coil (included with coil)	2
37	C 29992	WIRE - breaker contacts to coil negative (-)	1

+ Use before S/N:

++ Use S/N and after:

226 - 14071842

446 - 14074256

448 - 14075932

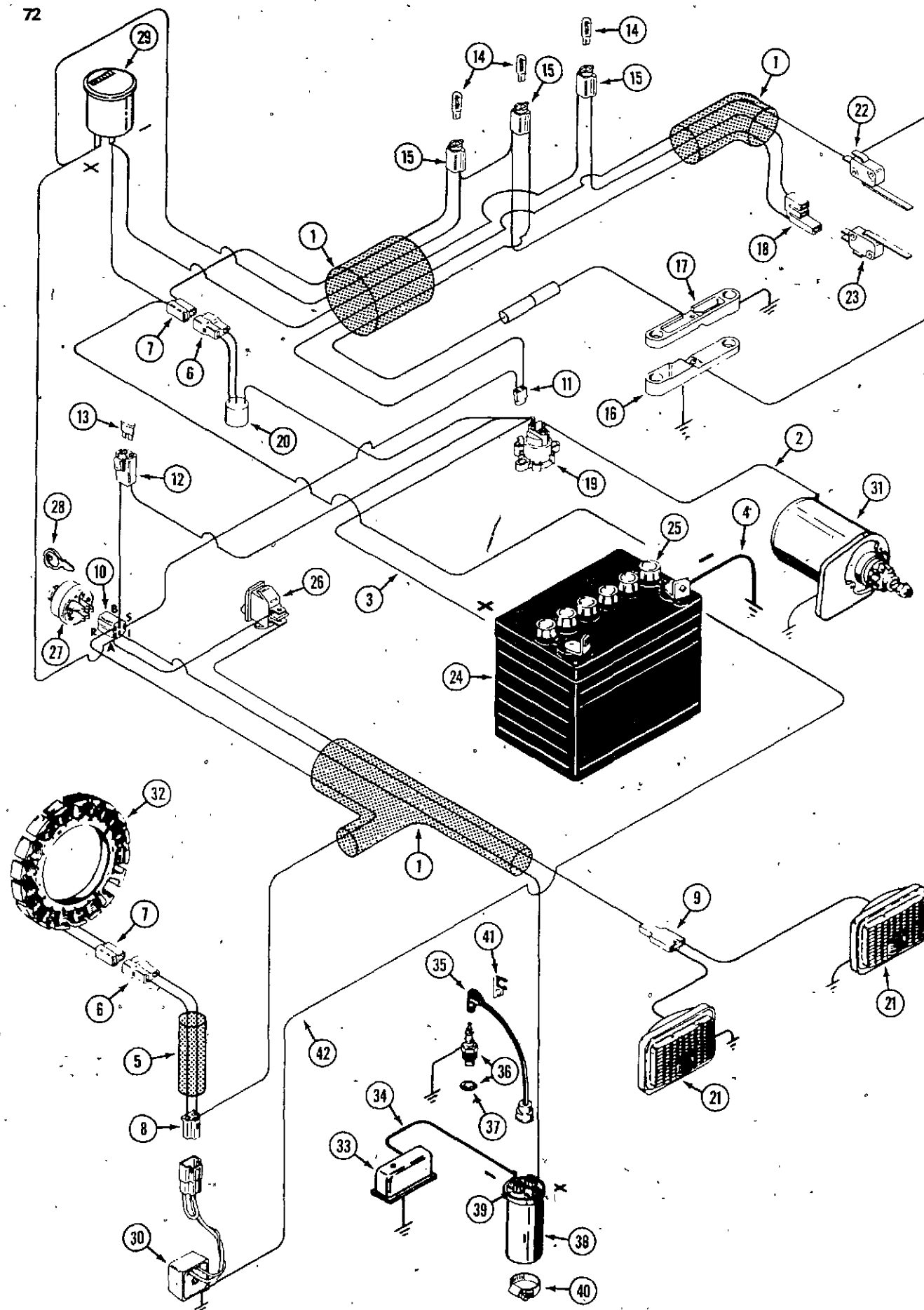
*Use before S/N:

**Use S/N and after:

226 - 14071775

446 - 14074175

448 - 14075830



ELECTRICAL SYSTEM

Use S/N to S/N:

226 - 14094020 to 14110325

446 - 14096200 to 14112435

448 - 14097625 to 14113810

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 30264	HARNESS - wire	1
2	C 29410	CABLE - solenoid to starter	1
3	C 14565	CABLE - solenoid to battery positive	1
4	C 24814	CABLE - battery negative to ground	1
5	C 24815	HARNESS - wire	1
6	C 24813	CONNECTOR - wire	2
7	C 25338	CONNECTOR - wire	2
8	C 25486	CONNECTOR - rectifier	1
9	C 14537	CONNECTOR - lights	1
10	C 24460	CONNECTOR - switch	1
11	C 27549	CONNECTOR - solenoid	1
12	C 31947	KIT - holder and fuse	1
13	C 30260	FUSE - 30 AMP	1
14	C 30262	BULB - light	3
15	C 30263	SOCKET - bulb	3
16	C 29650	LOCATOR HALF - neutral start (see page 55)	1
17	C 30450	SWITCH - neutral light (see page 55)	1
18	C 30279	CONNECTOR - switch	1
19	NSS	SOLENOID - start, 12v (use C33025)	1
20	C 30265	SENSOR - voltage	1
21	C 32178	HEADLAMP ASSEMBLY - 12v (repairs page 77)	2
22	C 26108	SWITCH - neutral start	1
23	C 30275	SWITCH - PTO light	1
24	NSS	BATTERY - 12 v (use C31213)	1
25	C 29074	CAP - battery	6
26	C 29322	SWITCH - head lamp	1
27	C 30480*	SWITCH ASSEMBLY - ignition (includes key and mounting hardware)	1
27	C 30530*	SWITCH ASSEMBLY - ignition (includes key and mounting hardware)	1
28	C 32407	KEY - ignition	1
29	C 31623	HOURMETER	1
30	C 31249	RECTIFIER - voltage 12v	1
31	C 29733	STARTER - bendix drive (repairs page 67)	1
32	C 24956	STATOR	1
33	C 29990	BREAKER CONTACT ASSEMBLY - ignition (repairs page 67)	1
34	C 29992	WIRE - breaker contacts to coil (-)	1
35	C 32299	WIRE - spark plug	2
36	C 25845	SPARK PLUG - includes gasket	2
37	C 28673	GASKET - spark plug	1
38	C 29752	COIL - ignition, 12v	1
39	C 25227	CAP - coil	2
40	214- 258	CLAMP - coil mounting	1
41	C 20344	RETAINER - cable	1
42	C 26670	WIRE - Solenoid lower mounting bolt to battery (-)	1

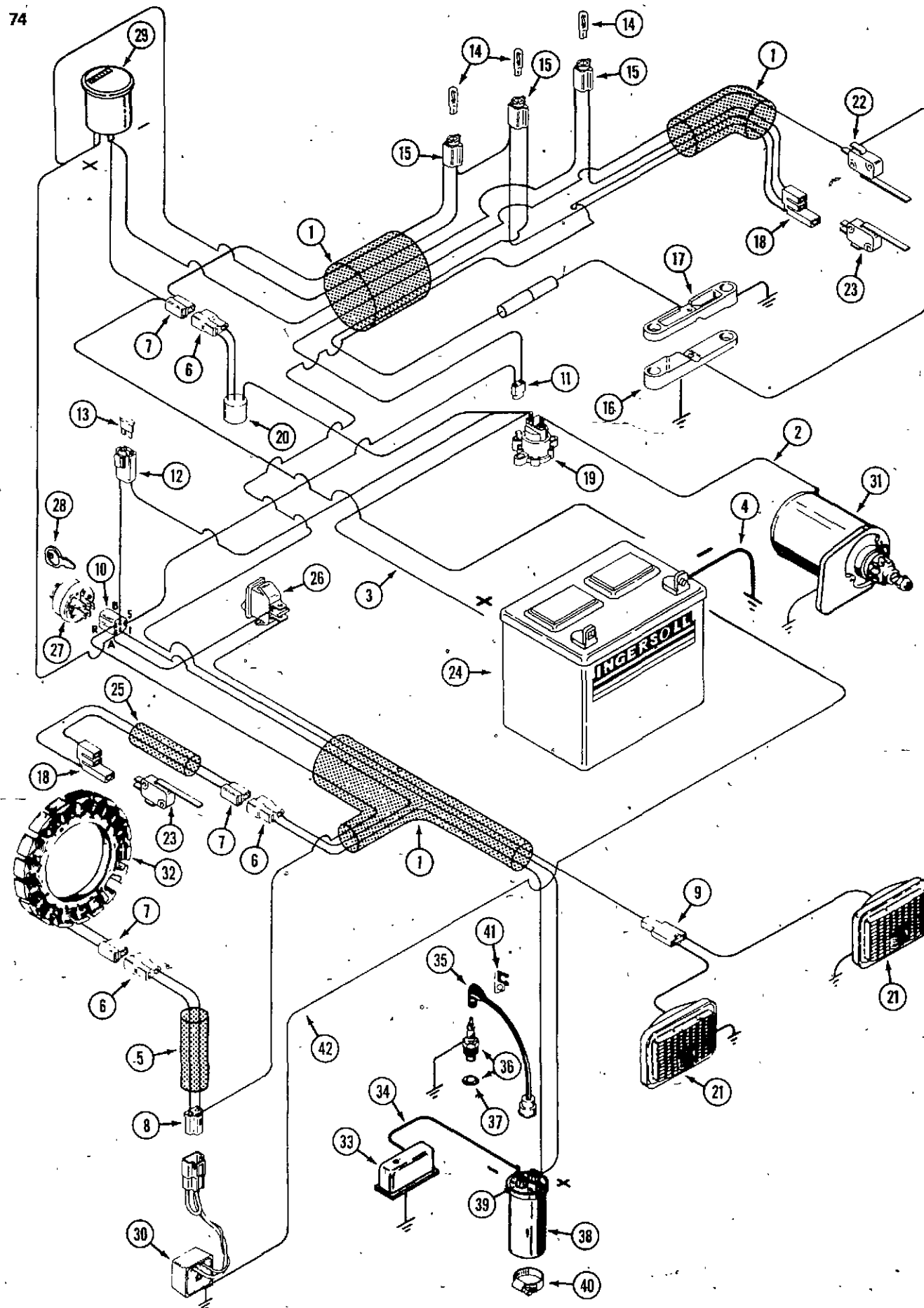
*Use before S/N:

**Use S/N and after:

226 - 14110139

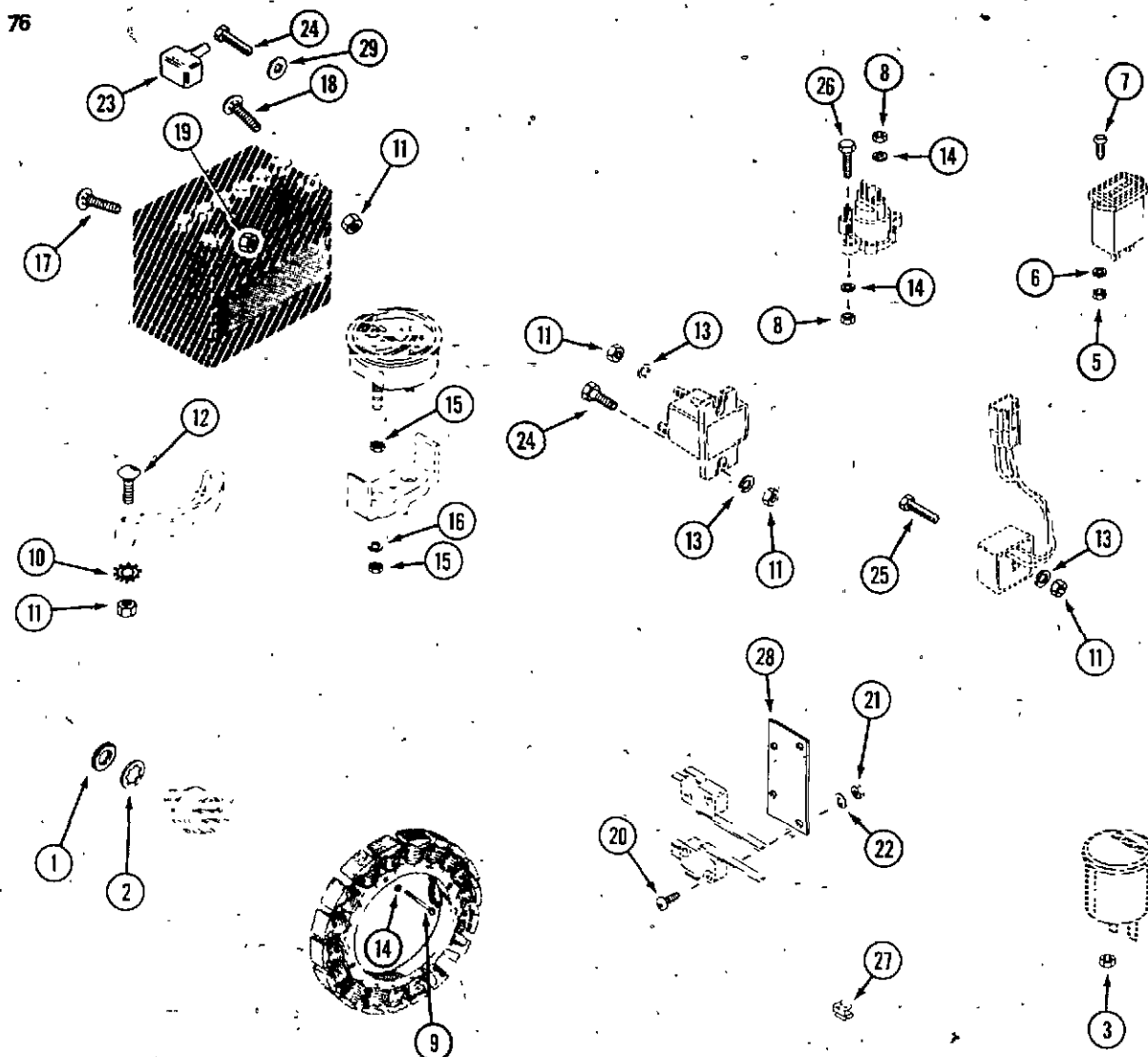
446 - 14112151

448 - 14113556

**ELECTRICAL SYSTEM**

Use S/N and after:
 226 - 14110325
 446 - 14112435
 448 - 14113810

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 31029	HARNESS - wire	1
2	C 29410	CABLE - solenoid to starter	1
3	C 14565	CABLE - solenoid to battery positive	1
4	C 24814	CABLE - battery negative to ground	1
5	C 24815	HARNESS - wire	1
6	C 24813	CONNECTOR - wire	2
7	C 25338	CONNECTOR - wire	2
8	C 25486	CONNECTOR - rectifier	1
9	C 14537	CONNECTOR - lights	1
10	C 24460	CONNECTOR - switch	1
11	C 27549	CONNECTOR - solenoid	1
12	C 31947	KIT - body and fuse	1
13	C 30260	FUSE - 30 AMP	1
14	C 30262	BULB - light	3
15	C 30263	SOCKET - bulb	3
16	C 29650	LOCATOR HALF - neutral start (see page 55)	1
17	C 30450	SWITCH - neutral light (see page 55)	1
18	C 30279	CONNECTOR - switch	1
19	NSS	SOLENOID - start, 12v (use C33025)	1
20	C 30265	SENSOR - voltage	1
21	C 32178	HEADLAMP ASSEMBLY - 12v (repairs page 77)	2
22	C 26108	SWITCH - neutral start	1
23	C 30275	SWITCH - interloc	1
24	C 31213	BATTERY - 12v	1
25	C 31044	HARNESS - seat interloc switch	1
26	C 29322	SWITCH - head lamp	1
27	C 30530	SWITCH ASSEMBLY - ignition (includes key and mounting hardware)	1
28	C 32407	KEY - ignition	1
29	C 31623	HOURMETER	1
30	C 31249	RECTIFIER - voltage 12v	1
31	C 29733	STARTER - bendix drive (repairs page 67)	1
32	C 24956	STATOR	1
33	C 29990	BREAKER CONTACT ASSEMBLY - ignition (repairs page 67)	1
34	C 29992	WIRE - breaker contacts to coil (-)	1
35	C 32299	WIRE - spark plug	2
36	C 25845	SPARK PLUG - includes gasket	2
37	C 28673	GASKET - spark plug	1
38	C 29752	COIL - ignition, 12v (uses #12-32 nut on terminals)	1
39	C 25227	CAP - coil	2
40	214- 258	CLAMP - coil mounting	1
41	C 20344	RETAINER - cable	1
42	C 26670	WIRE - Solenoid lower mounting bolt to battery (-)	1



ELECTRICAL SYSTEM HARDWARE

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	NUT - switch mounting 5/8" (use C32396 and C32397)	1
1	C 23330	NUT - switch mounting 9/16"	1
2	C 23012	LOCK WASHER - internal tooth	1
3	129- 36	NUT - #8-36	2
5	129- 15	NUT - #6-32 hex	2
6	192- 15	LOCK WASHER - #6	2
7	182- 571	SCREW - #6-32 x 1/2" pan head, black	2
8	129- 37	NUT - #10-32 hex	4
9	173- 210	SCREW - No. 10 x 1-3/8"	3
10	193- 57	LOCK WASHER - 1/4" external tooth	4
11	129- 101	NUT - 1/4" - 20 hex	2
12	111- 139	BOLT - 1/4" - 20 x 1" round head, square neck	2
13	192- 19	LOCK WASHER - 1/4"	4
14	192- 18	LOCK WASHER - No. 10	3
15	129- 27	NUT - No. 10 N.F. hex	4
16	193- 99	LOCK WASHER - No. 10	2
17	111- 202	BOLT - 5/16" x 3/4" N.C. round head, square neck	1
18	111- 108	BOLT - 1/4" x 3/4" N.C. round head, square neck	1
19	129- 102	NUT - 5/16" N.C. hex	1
20	182- 10	SCREW - No. 4-40 N.C. 7/8"	UAR
21	129- 13	NUT - No. 4-40 hex	UAR
22	192- 13	LOCK WASHER - No. 4	UAR
23	C 24069	COVER - terminal	1
24	113- 3	BOLT - 1/4" - 20 x 3/4" hex	2
25	113- 17	BOLT - 1/4" - 20 x 1-1/4" hex	1
26	182- 147	BOLT - #10-32 x 3/4"	2
27	C 19521	CLIP - wire holder, headlight	2
28	C 30276*	PLATE - switch mounting	1
29	195- 518	WASHER - 1/4"	4

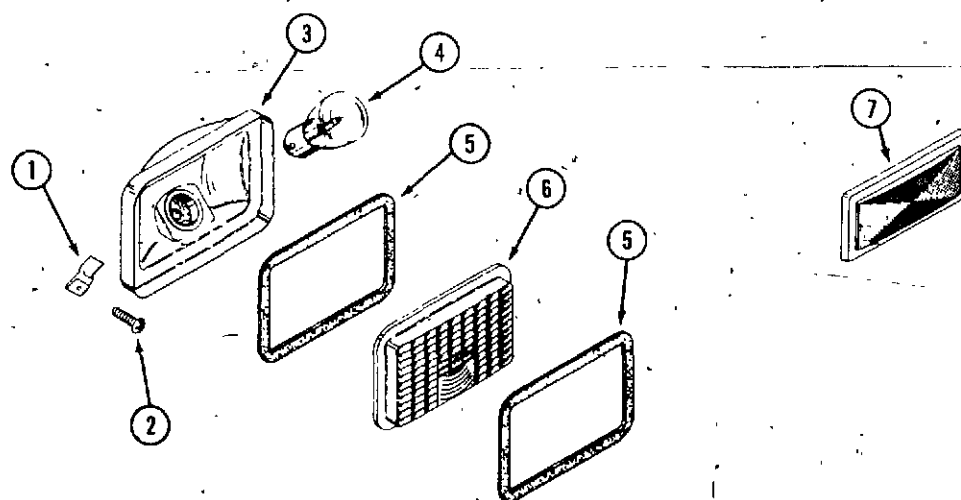
*Use S/N:

226 - 14094020 to 14094129

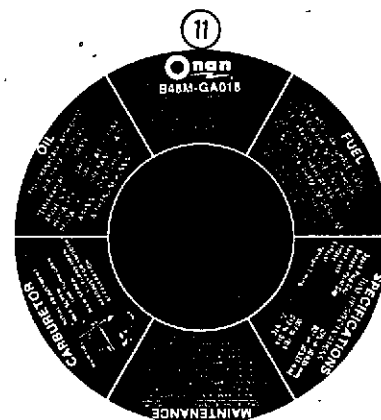
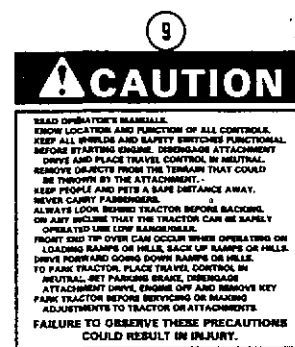
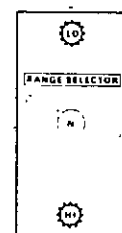
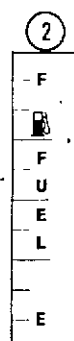
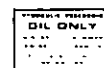
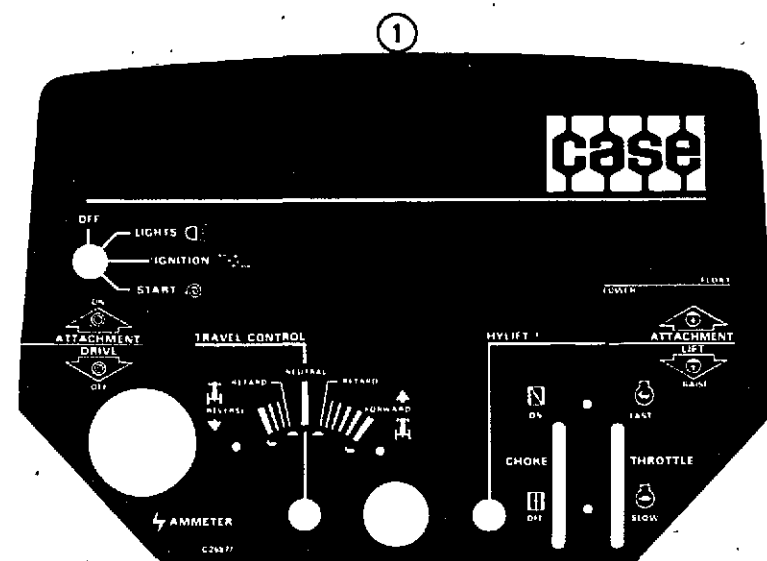
446 - 14096200 to 14096325

448 - 14097625 to 14097742

HEADLIGHT ASSEMBLY AND REAR REFLECTOR



1	131- 629	NUT - speed type "U"	4
2	187- 1334	SCREW - No. 8 x 1/2" self-tapping, round head Phillips	4
	C 32178	HEADLIGHT ASSEMBLY	2
3	NSS	RECEPTACLE - headlight (order C32178)	1
4	C 28932	BULB - headlight	1
5	C 14304	GASKET - headlight	2
6	C 22573	LENS - headlight	1
7	C 30942	REFLECTOR - red, rear fender	2



226

■hydriv

446

■hydriv

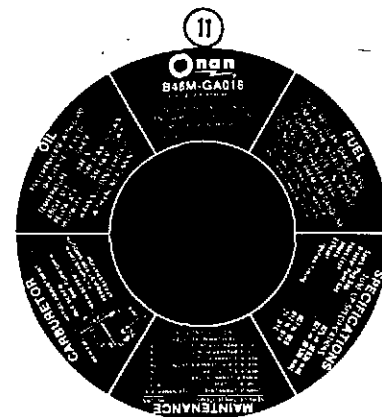
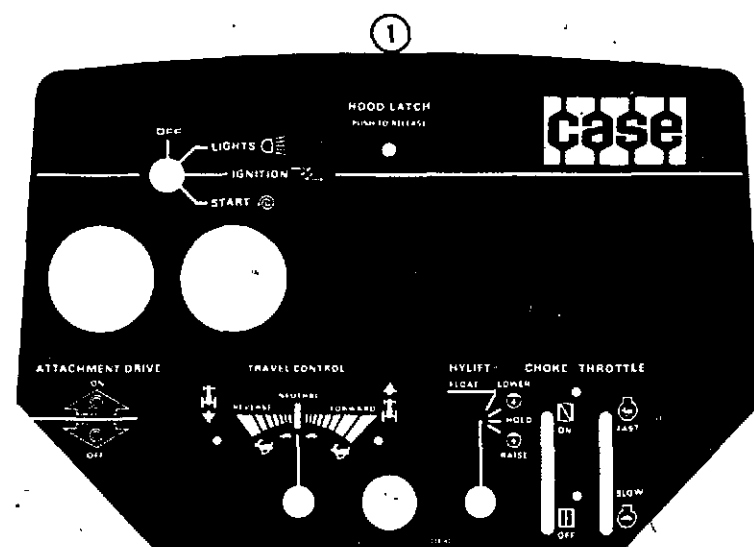
448

■hydriv

DECALS

Use Before S/N:
 226 - 14058070
 446 - 14060735
 448 - 14062610

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26877	DECAL - instrument panel	1
2	C 26699	DECAL - fuel gauge	1
3	321- 4767	DECAL - hydraulic reservoir	1
4	C 27179	DECAL - hood (448) L.H.	1
4	C 27183	DECAL - hood R.H. (448) shown	1
5	321- 1788	DECAL - shift range	1
6	C 26946	DECAL - clutch brake	1
7	C 27178	DECAL - hood (446) L.H.	1
7	C 27182	DECAL - hood R.H. (446) shown	1
8	C 27176	DECAL - hood L.H. (226) shown	1
8	C 27181	DECAL - hood (226) R.H.	1
9	321- 6659	DECAL - "caution"	1
10	NSS	MEDALLION - "Case" (use C30539)	1
11	C 26656	DECAL - air cleaner (226, 446)	1
11	C 26657	DECAL - air cleaner (448) shown	1



226 hydriiv. (13)

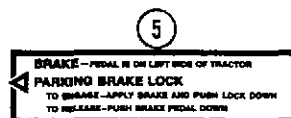
446 hydriiv. (14)

448 hydriiv. (15)

226 hydriiv. (6)

446 hydriiv. (7)

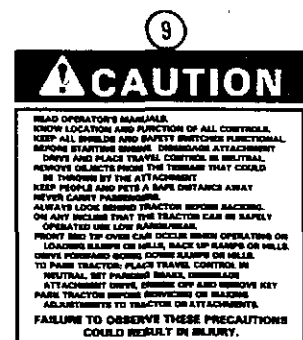
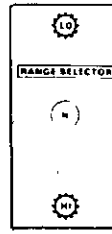
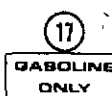
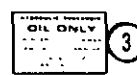
448 hydriiv. (8)



INGERSOLL (12)



INGERSOLL (16)



MODEL 226, 446 AND 448 COMPACT TRACTORS

DECALS

Use S/N:

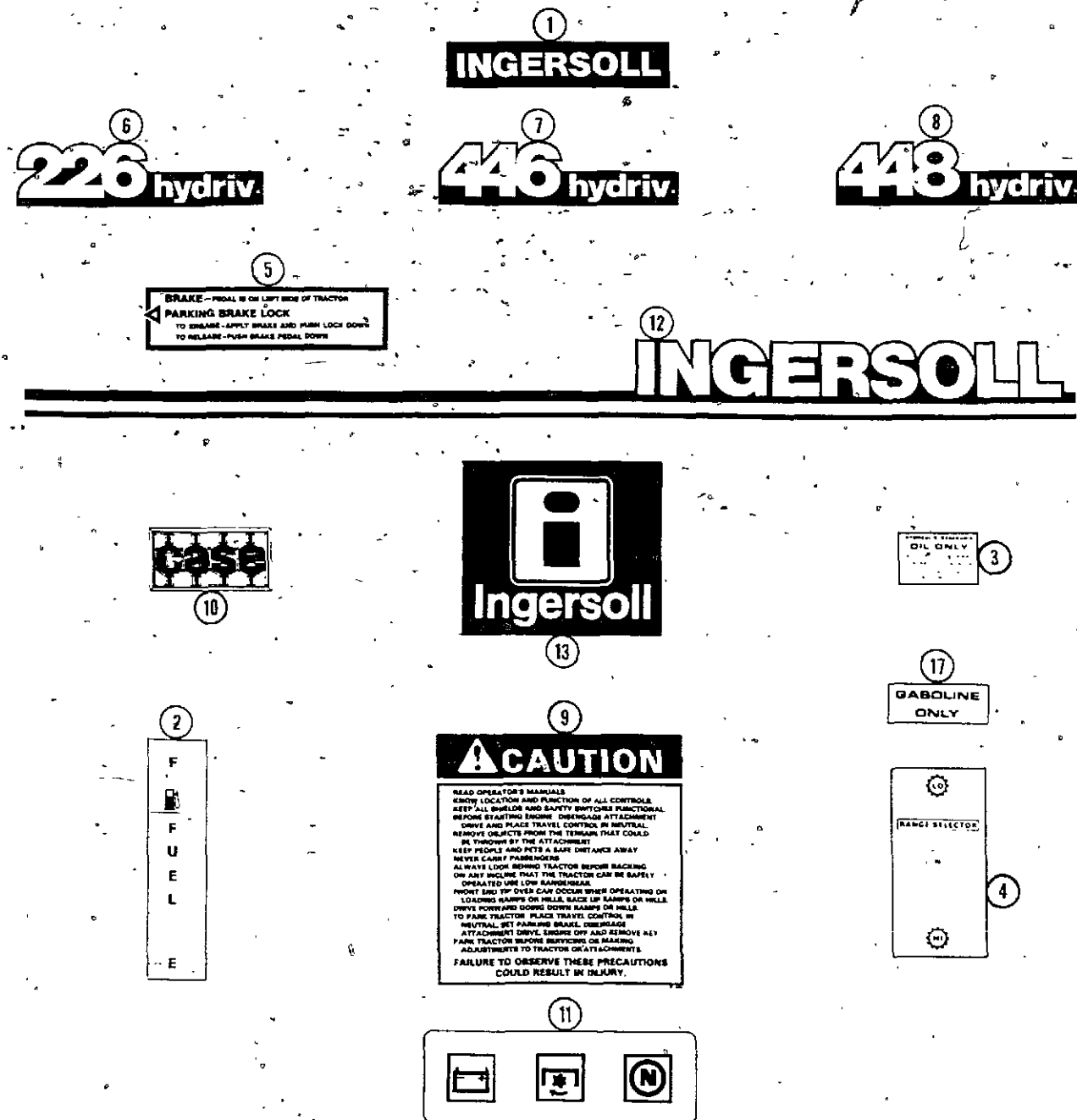
226 - 14058070 to 14094020

446 - 14060735 to 14096200

448 - 14062610 to 14097625

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 29740**	DECAL - instrument panel (shown)	1
1	C 27944*	DECAL - instrument panel	1
2	C 26699	DECAL - fuel gauge	1
3	321- 4767	DECAL - hydraulic reservoir	1
4	321- 1788	DECAL - shift range	1
5	C 27871	DECAL - brake	1
6	C 27917	DECAL - "226" hood L.H. (shown)	1
6	C 27922	DECAL - "226" hood R.H.	1
7	C 27919	DECAL - "446" hood L.H. (shown)	1
7	C 27923	DECAL - "446" hood R.H.	1
8	C 27920	DECAL - "448" hood L.H. (shown)	1
8	C 27924	DECAL - "448" hood R.H.	1
9	321- 6659	DECAL - "Caution"	1
10	NSS	MEDALLION - "Case" (use C30539)	1
11	C 26656*	DECAL - air cleaner (226, 446)	1
11	C 26657*	DECAL - air cleaner (448) shown	1
12	C 27962	DECAL - "Ingersoll" stripe L.H. (shown)	1
12	C 27963	DECAL - "Ingersoll" stripe R.H.	1
13	C 27956*	DECAL - seat back "226 hydriiv"	1
14	C 27958*	DECAL - seat back "446 hydriiv"	1
15	C 27959*	DECAL - seat back "448 hydriiv"	1
16	C 29202**	DECAL - seat back "Ingersoll"	1

*Use before S/N:
 **Use S/N and after:
 226 - 14071775
 446 - 14074175
 448 - 14075830



DECALS (English)

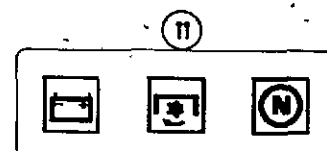
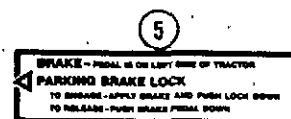
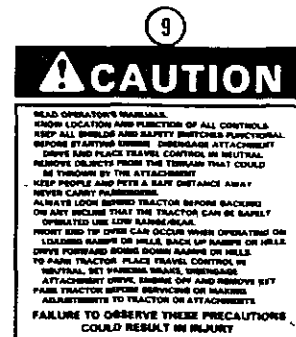
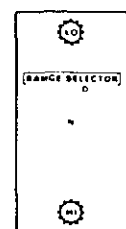
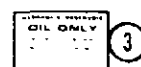
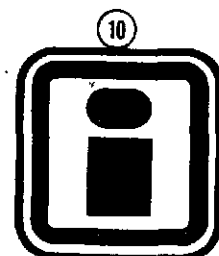
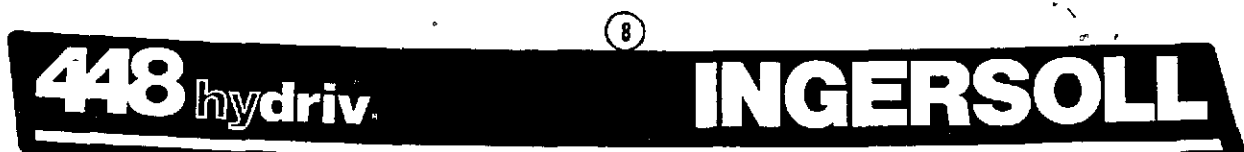
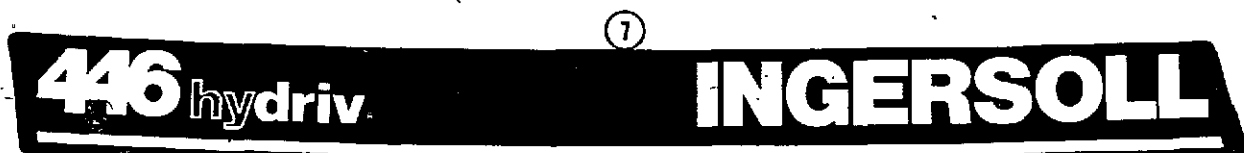
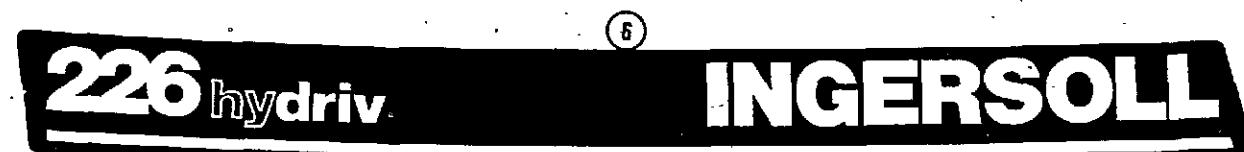
Use S/N to S/N:

226 - 14094020 to 14110325

446 - 14096200 to 14112435

448 - 14097625 to 14113810

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 31050	DECAL - "Ingersoll"	1
2	C 26699	DECAL - fuel gauge	1
3	321- 4767	DECAL - hydraulic reservoir	1
4	321- 1788	DECAL - shift range	1
5	C 27871	DECAL - brake	1
6	C 27917	DECAL - "226" hood L.H. (shown)	1
6	C 27922	DECAL - "226" hood R.H.	1
7	C 27919	DECAL - "446" hood L.H. (shown)	1
7	C 27923	DECAL - "446" hood R.H.	1
8	C 27920	DECAL - "448" hood L.H. (shown)	1
8	C 27924	DECAL - "448" hood R.H.	1
9	321- 6659	DECAL - "Caution"	1
10	NSS	MEDALLION - "Case" (use C30539)	1
11	C 30274	LENS - display	1
12	C 27962	DECAL - "Ingersoll" stripe L.H. (shown)	1
12	C 27963	DECAL - "Ingersoll" stripe R.H.	1
13	C 32093	DECAL - seat back	1



DECALS

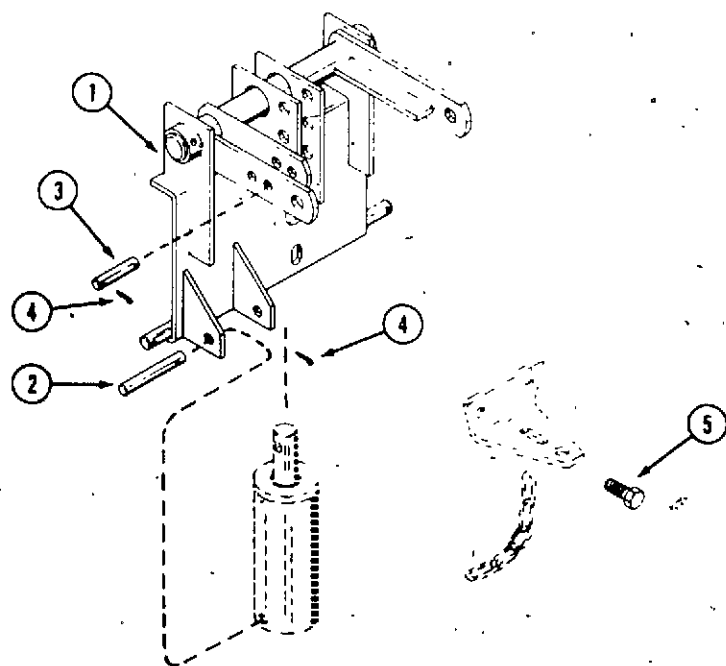
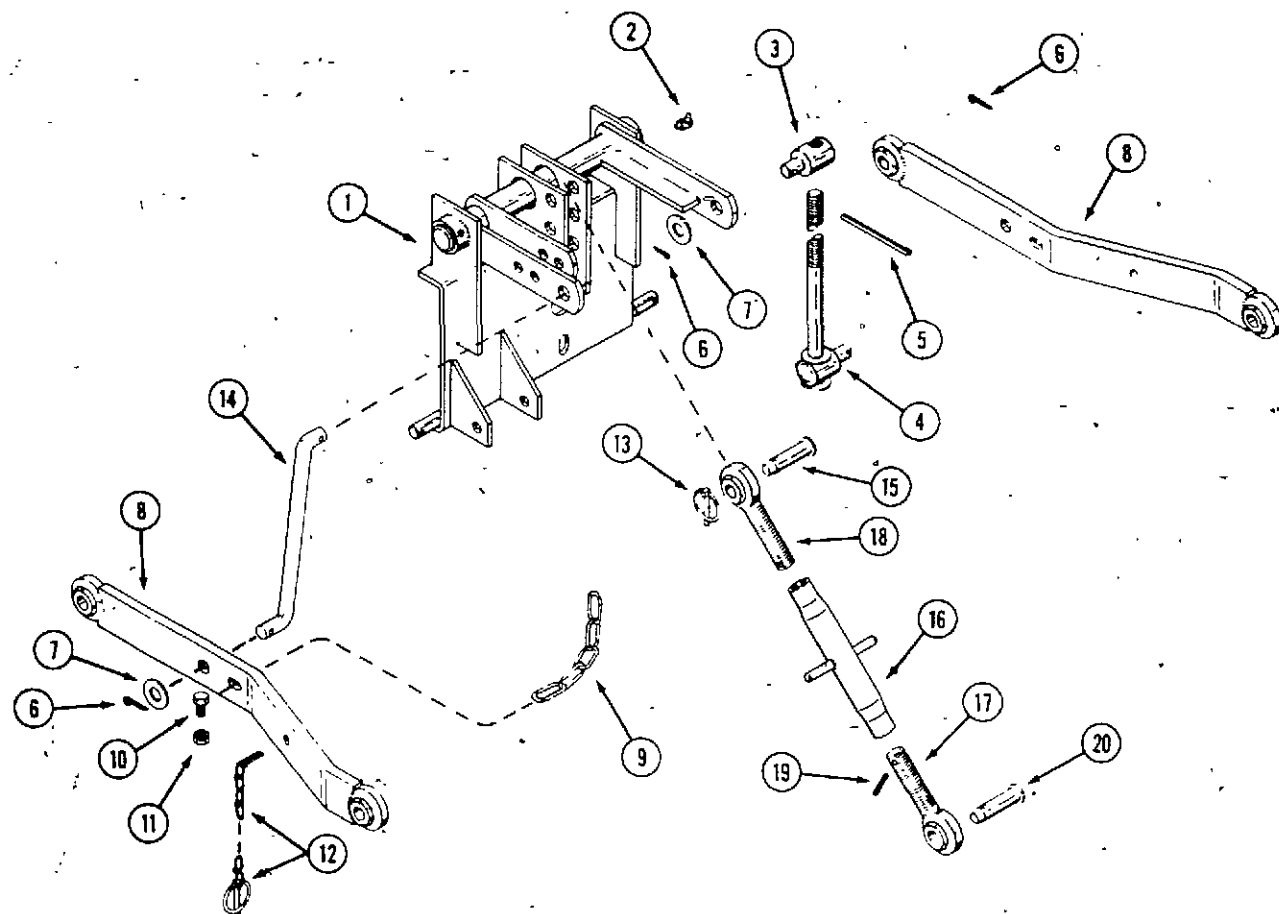
Use S/N and after:

226 - 14110325

446 - 14112435

448 - 14113810

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 31050	DECAL - "Ingersoll"	1
2	C 26699	DECAL - fuel gauge	1
3	321- 4767	DECAL - hydraulic reservoir	1
4	321- 1788	DECAL - shift range	1
5	C 27871	DECAL - brake	1
6	C 30960	DECAL - "226" hood L.H. (shown)	1
6	C 30961	DECAL - "226" hood R.H. (shown)	1
7	C 30964	DECAL - "446" hood L.H. (shown)	1
7	C 30965	DECAL - "446" hood R.H. (shown)	1
8	C 30966	DECAL - "448" hood L.H. (shown)	1
8	C 30967	DECAL - "448" hood R.H. (shown)	1
9	321- 6659	DECAL - "Caution"	1
10	C 30539	MEDALLION - "I"	1
11	C 30274	LENS - display	1
12	C 32093	DECAL - seat-back	1

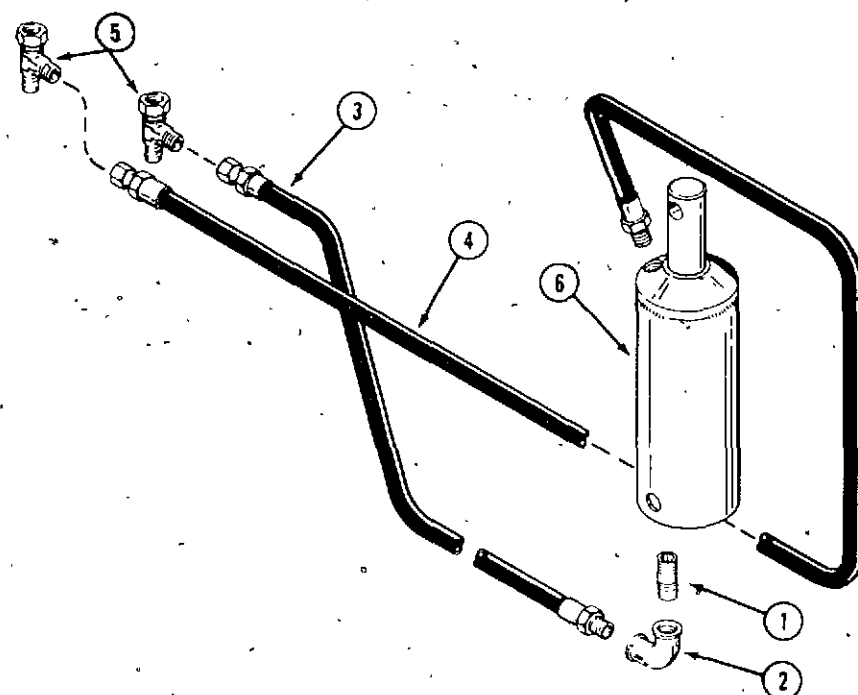
**J26 THREE POINT HITCH FRAME, LIFT RODS AND ARMS**

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 19740	HITCH PLATE ASSEMBLY	1
2	219- 405	FITTING - lubrication	2
	C 24447	ROD ASSEMBLY - R.H. lift	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 - 19 links	1
10	113- 118	BOLT - 5/16" x 5/8" N.C. hex, zinc	2
11	131- 176	NUT - lock 5/16" N.C. hex	2
12	C 28985	PIN - retaining	2
13	C 28222	PIN - retaining	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 32427	BALL END ASSEMBLY - L.H. thread	1
19	138- 59	PIN - roll 1/8" x 7/8"	2
20	C 16128	PIN - clevis 5/8" x 3"	1

J26 THREE POINT HITCH CYLINDER AND DRAWBAR MOUNTING

1	C 19740	HITCH PLATE ASSEMBLY	1
2	C 26188	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" N.C., hex, zinc	2

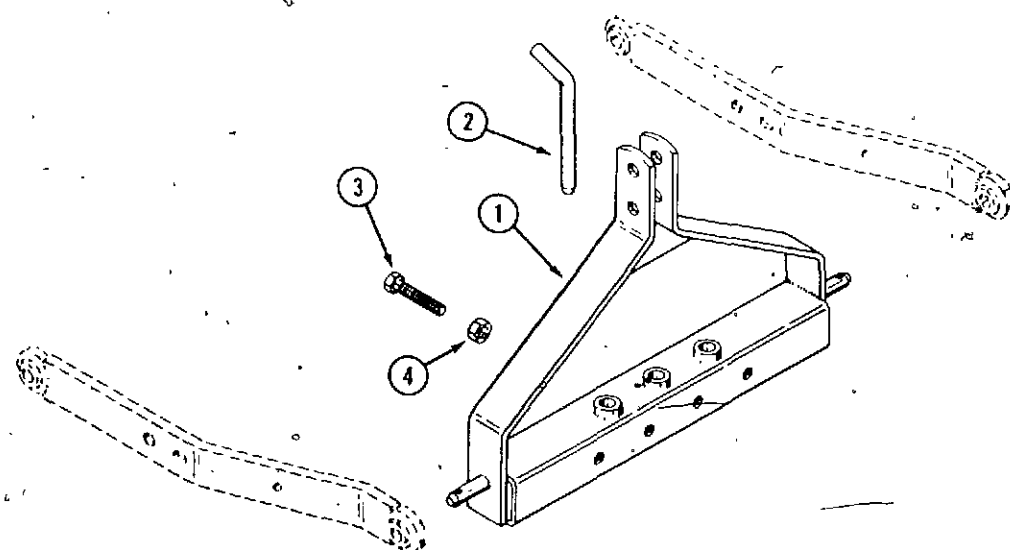
J26 THREE POINT HITCH HYDRAULIC CONNECTIONS AND COMPONENTS



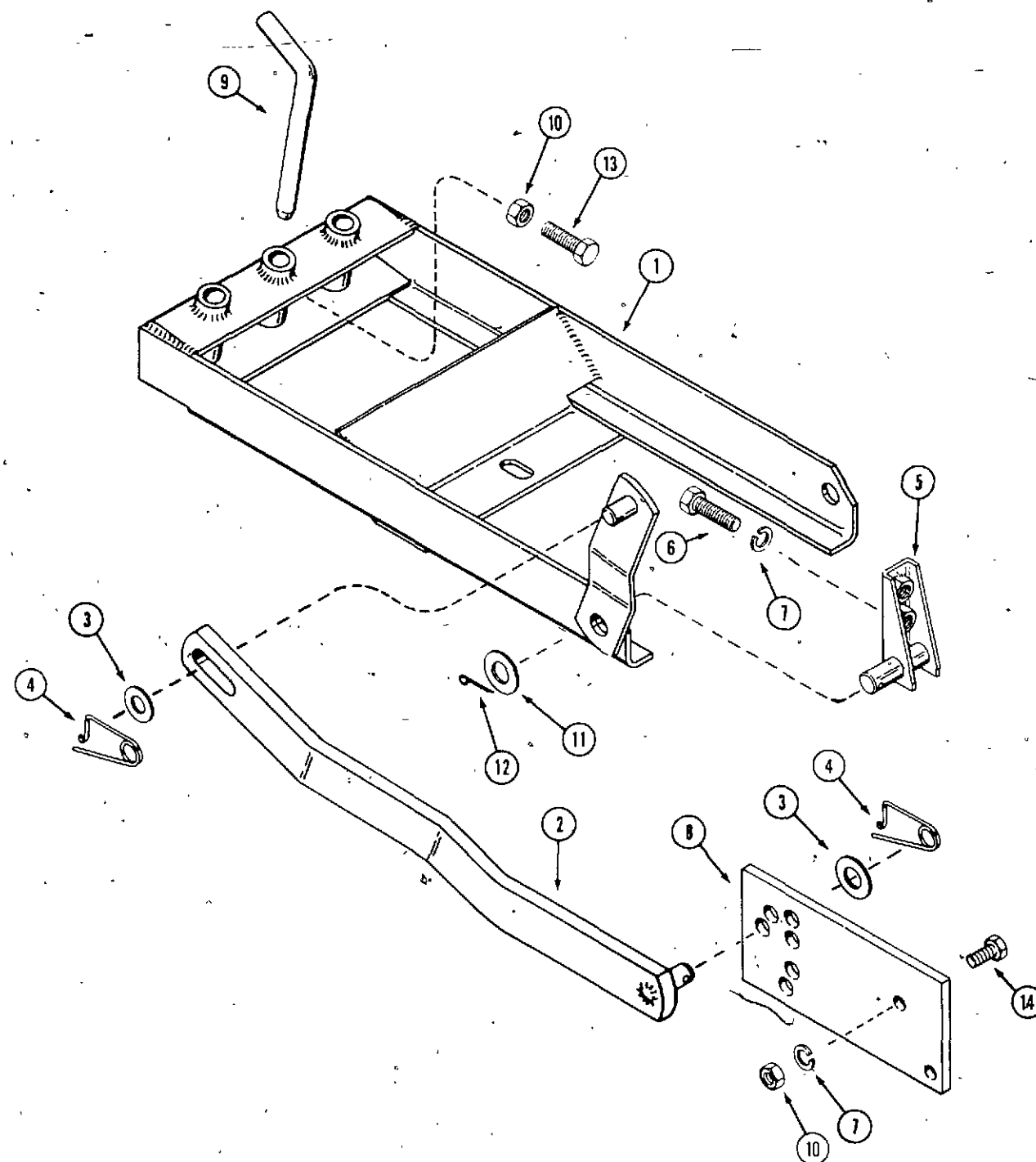
REF.	PART NO.	DESCRIPTION	REQ'D
1	221- 1139	NIPPLE - 1/4" x 3"	1
2	221- 1375	ELBOW - 90 degrees	1
3	C 25369	HOSE - hydraulic, short	1
4	C 25368	HOSE - hydraulic, long	1
5	218- 5479	FITTING - "T", swivel (includes 218-5004 "O" ring)	2
6	NSS	CYLINDER ASSEMBLY (use C26494 and C30049)	1
	C 30054	KIT - seal	1

F27 HITCH ADAPTER

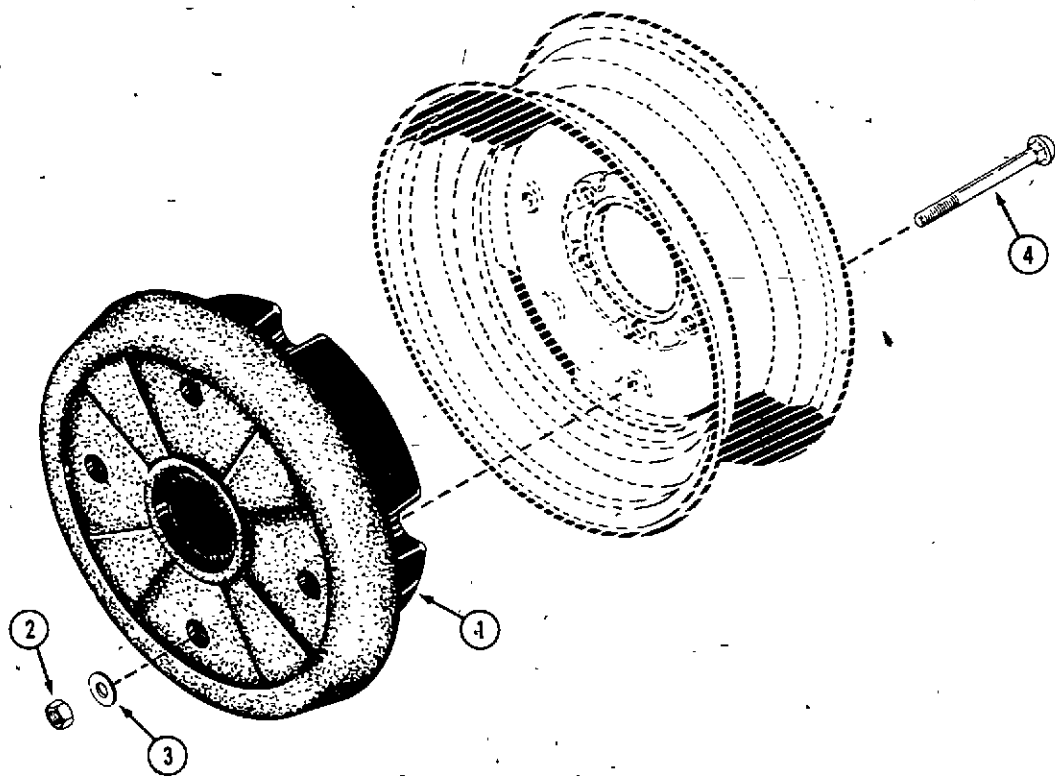
1	NSS	BRACKET - hitch adapter (order as machinery item)	1
2	C 14568	PIN - drawbar	1
3	22- 844	BOLT - 1/2" x 3" N.C. hex	2
4	129- 105	NUT - 1/2" - 13	2



K22 SLEEVE HITCH (226) and K24 SLEEVE HITCH (446, 448)



REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	FRAME ASSEMBLY (K24) shown (order as machinery item)	1
1	NSS	FRAME ASSEMBLY (K22) (order as machinery item)	1
2	C 25371	ARM - lift	1
3	195- 541	WASHER - plain 21/32"	2
4	C 10898	PIN - retaining	2
5	C 14459	BRACKET - hitch mounting R.H.	1
5	C 25789	BRACKET - hitch mounting L.H.	1
6	113- 2400	BOLT - 1/2" N.C. hex, zinc 1-3/8"	6
7	192- 23	LOCK WASHER - 1/2" zinc	6
8	C 25382	PLATE - lift lever	1
9	C 14568	PIN - drawbar	1
10	129- 105	NUT - 1/2" N.C. hex, zinc	4
11	192- 545	WASHER - plain 3/4" Zinc	2
12	132- 306	PIN - cotter 3/16" x 1-3/4"	2
13	22- 844	BOLT - 1/2" x N.C. hex, zinc 2-3/4"	2
14	113- 417	BOLT - 1/2" x 1-1/4" hex	2

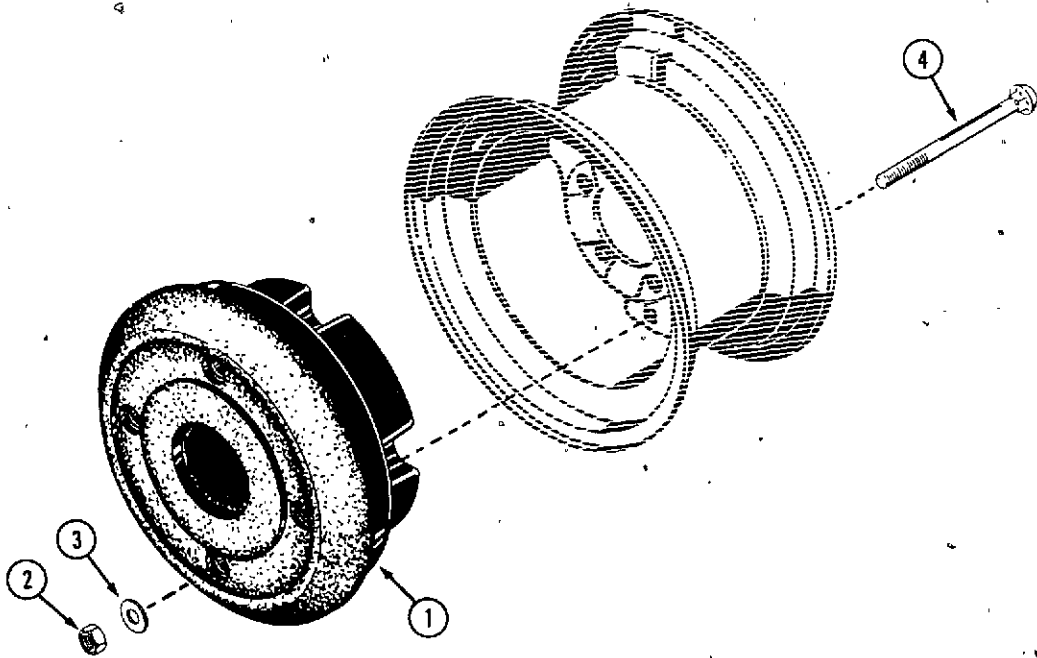


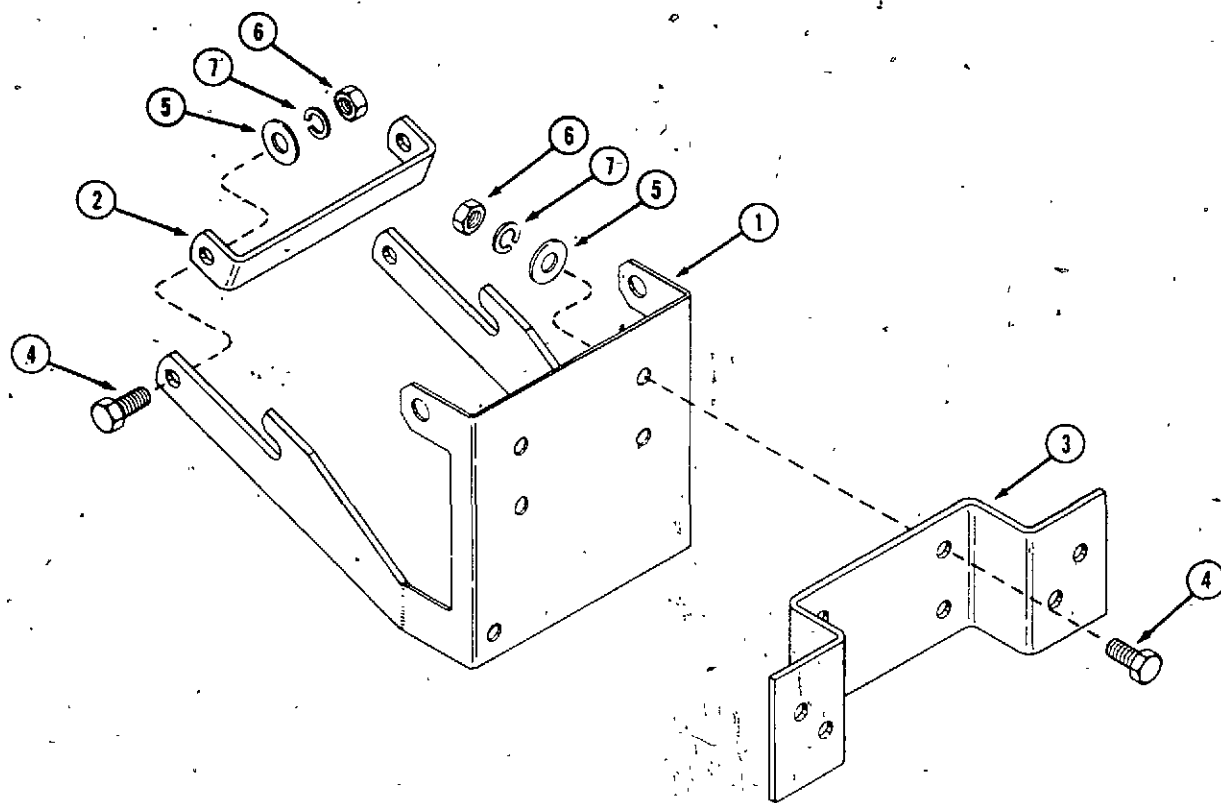
K10 WHEEL WEIGHTS (446, 448)

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	WEIGHT - wheel, 75 lb. (order as machinery item)	2
2	131- 1182	NUT - 1/2" N.C. hex	4
3	195- 533	WASHER - 1/2"	8
4	111- 525	BOLT - 1/2" x 6" round head, square neck	8

K8 WHEEL WEIGHTS (226)

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	WEIGHT - wheel 55 lb. (order as machinery item)	2
2	131- 1182	NUT - 1/2" N.C. lock	8
3	195- 533	WASHER - 1/2"	8
4	111- 521	BOLT - 1/2" x 7" carriage	8
4	C 30545	BOLT - 1/2" - 13 x 8-1/2"	8

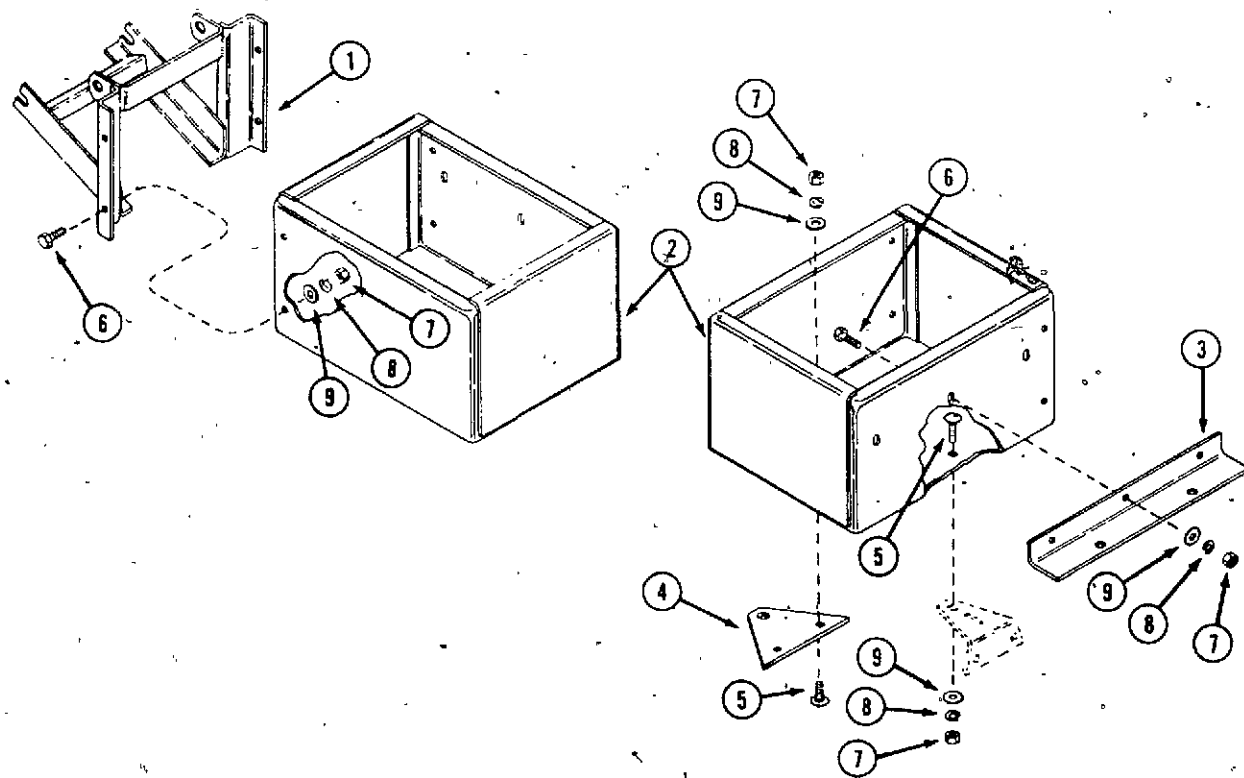


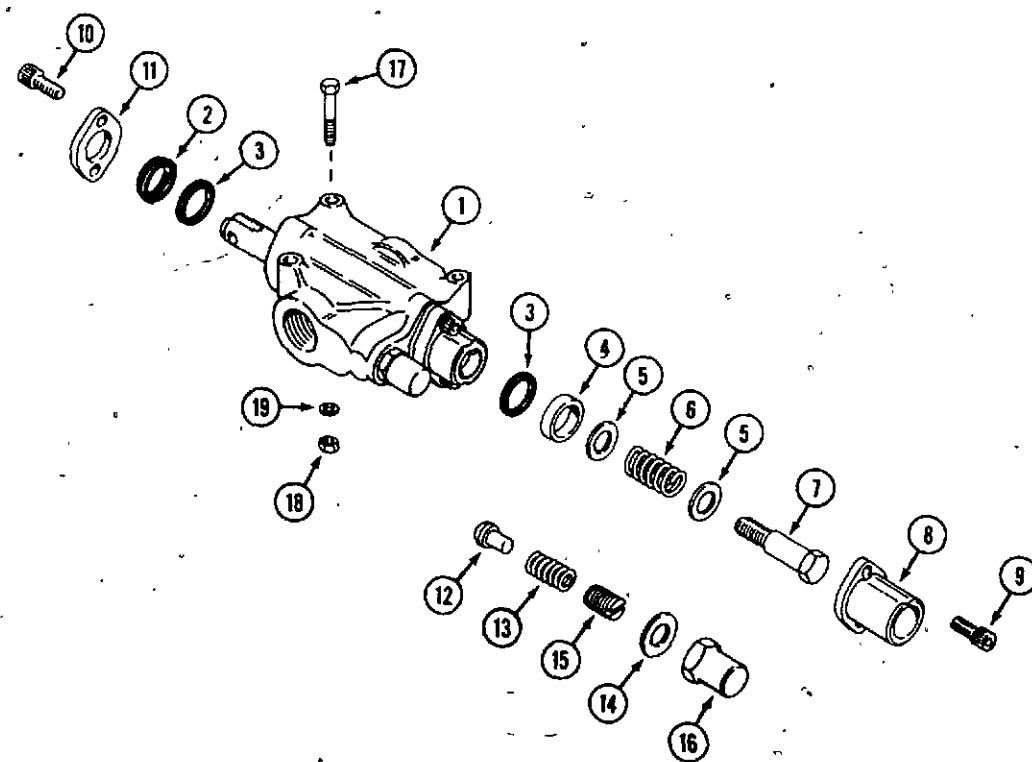
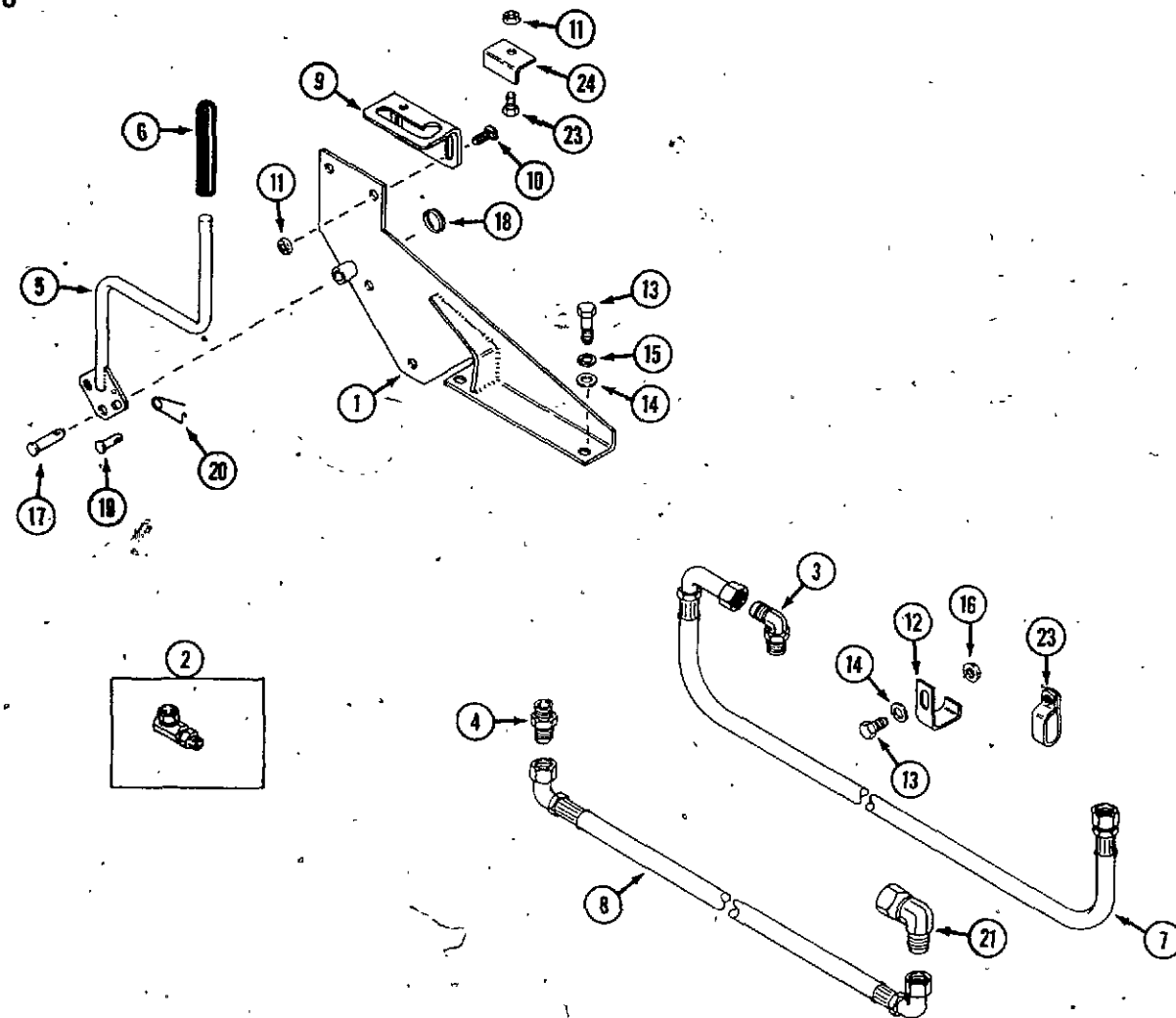
**K18 FRONT END WEIGHT BRACKETS**

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 1-1/2" N.C. hex, zinc	6
5	195- 533	WASHER - 1/2" zinc	6
6	129- 105	NUT - 1/2" N.C. hex, zinc	6
7	192- 23	LOCK WASHER - 1/2"	6

H13 WEIGHT BOX

REF.	PART NO.	DESCRIPTION	REQ'D
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" N.C. hex	4
7	129- 103	NUT - 3/8" N.C. hex	7
8	192- 21	LOCK WASHER - 3/8"	7
9	195- 525	WASHER - 3/8"	7



**M17, N17 HYDRAULIC PTO**

(M17 for 226) (N17 for 446, 448)

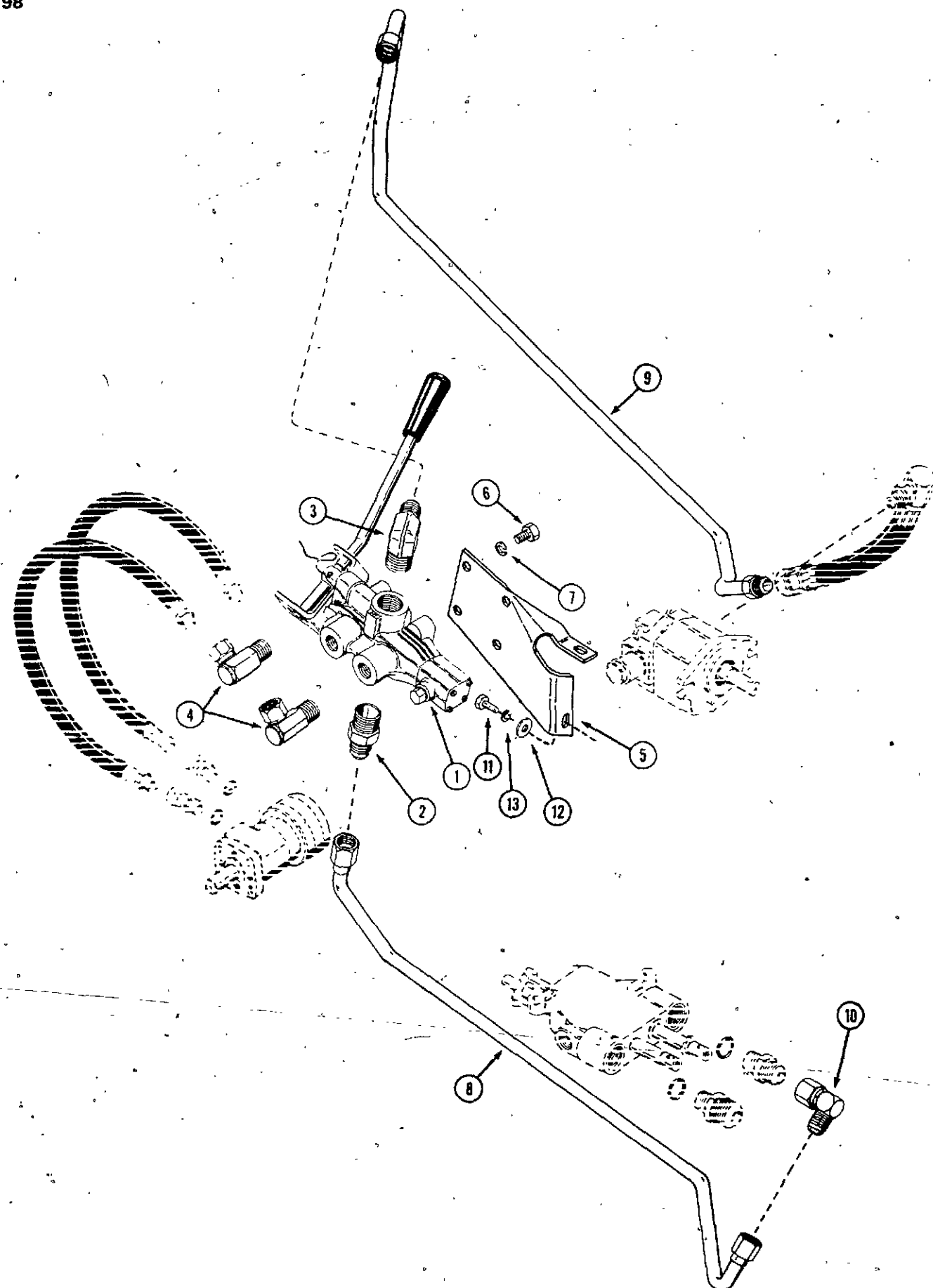
PTO HOSES AND MOUNTING BRACKET

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 32200	BRACKET - valve mounting	1
2	218- 5201	FITTING - workport, 90° elbow 7/8" - 14 x 1/2" NPSM swivel	2
3	218- 5107	FITTING - inlet port, 7/8" - 14 x 7/8" - 14 flare, 90° adjustable elbow	1
4	218- 5062	FITTING - outlet port, 7/8" - 14 x 7/8" - 14 flare, straight	1
5	C 32403	HANDLE - valve	1
6	C 26020	GRIP - handle	1
7	C 32423	HOSE - pump to PTO 56" (M17) 226	1
7	C 32424	HOSE - pump to 54" (N17) 446, 448	1
8	C 32209	HOSE - PTO to travel valve 32" (M17) 226	1
8	C 32210	HOSE - PTO to travel valve 34" (N17) 446, 448	1
9	C 32211	BRACKET - handle guide	1
10	111- 101	BOLT - 1/4" - 20 x 5/8" carriage	2
11	131- 934	NUT - 1/4" - 20 flange lock	2
12	C 32332	CLAMP - tube (M17) 226	1
13	113- 103	BOLT - 5/16" - 18 x 1"	3
14	195- 521	WASHER - 5/16"	3
15	192- 20	LOCK WASHER - 5/16"	2
16	131- 911	NUT - 5/16" - 18 flange lock	1
17	C 32214	PIN - clevis 3/8" x 1-1/2"	1
18	C 28105	RING - retaining	1
19	C 28964	PIN - clevis 3/16" x 1"	1
20	C 10883	PIN - safety	1
21	218- 5232	FITTING - hydraulic 90° swivel	1
23	C 32213	CLAMP - tube	1
	C 22947	TIE - nylon	1

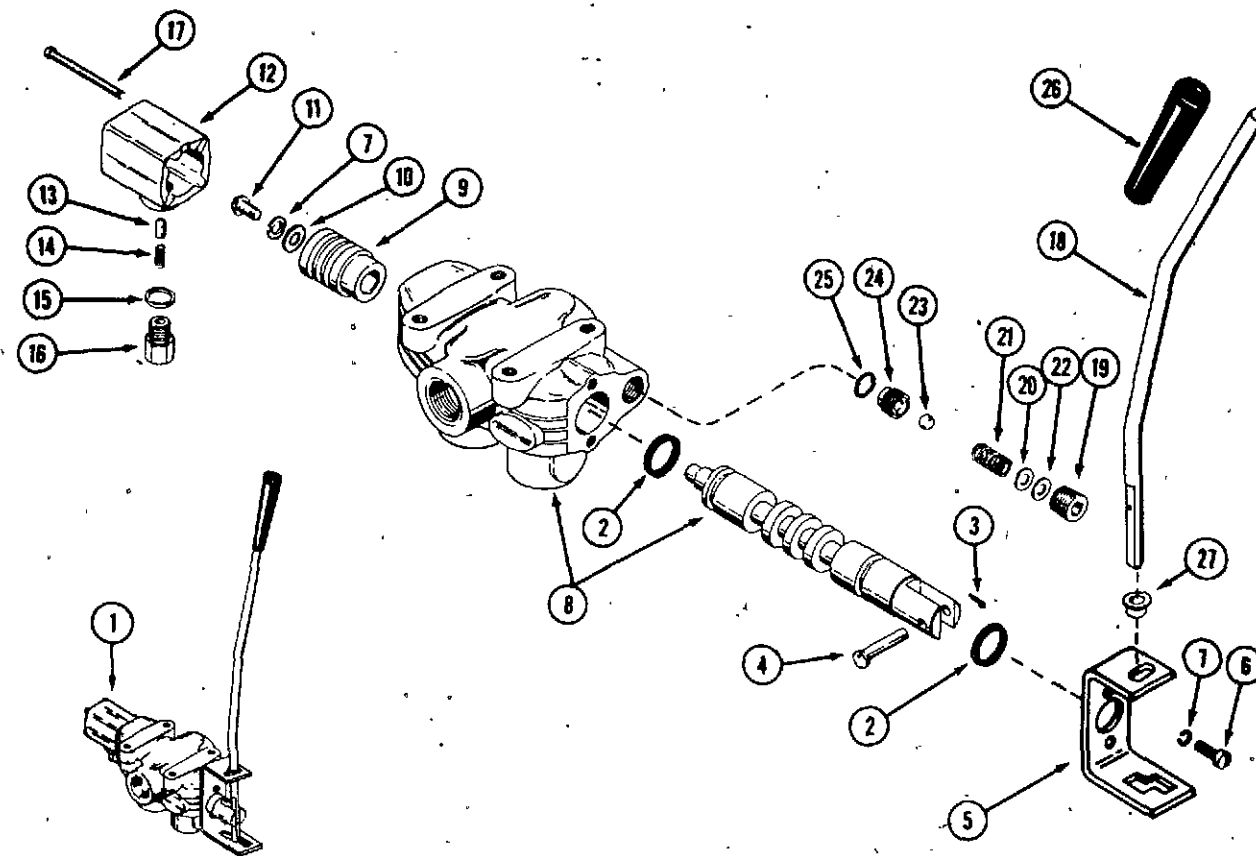
PTO VALVE

1	C 30046	VALVE - hydraulic	1
2	C 26706	WIPER - spool	1
3	C 26707	RING - quad	2
4	C 26722	SPACER - end cap	1
5	195- 526	WASHER	2
6	C 26724	SPRING - centering	1
7	C 26725	BOLT - shoulder	1
8	C 26726	BONNET - end cap	1
9	165- 143	SCREW - 1/4" - 20 x 3/4" socket head	2
10	165- 142	SCREW - 1/4" - 20 x 5/8" socket head	2
11	C 26727	RETAINER - seal	1
12	C 26708	POPPET - relief	1
13	C 26709	SPRING - relief	1
14	C 26710	WASHER - aluminum, seal	1
15	C 26711	SCREW - adjustment, relief	1
16	C 26712	NUT - cap, relief	1
17	113- 5	BOLT - 1/4" x 1-1/2"	3
18	129- 101	NUT - 1/4"	3
19	192- 19	LOCK WASHER - 1/4"	3

J17 - L17 HYDRAULIC PTO KIT



REF.	PART NO.	DESCRIPTION	REQ'D
1	C 30044	VALVE - PTO control	1
2	218- 457	FITTING - straight 3/4" NPT x 5/8" tube	1
3	218- 494	FITTING - elbow 90 degrees, 3/4" NPT x 5/8" tube	1
4	218- 927	FITTING - elbow 90 degrees, 1/2" NPT x 1/2" female swivel	2
5	C 23337	BRACKET - valve mounting	1
6	113- 206	BOLT - 3/8" x 3/4" N.C. hex	4
7	192- 21	LOCK WASHER - 3/8"	4
8	C 25343	TUBE - PTO valve to travel control valve (L17) 446, 448	1
8	C 23888	TUBE - PTO valve to travel control valve (J17) 226	1
9	C 25344	TUBE - pump to PTO valve (L17) 446, 448	1
9	C 23962	TUBE - pump to PTO valve (J17) 226	1
10	218- 5232	FITTING - 90 degree swivel elbow flare 3/4" NPT x 5/8" tube	1
11	113- 103	BOLT - 5/16" x 1" N.C. hex	2
12	195- 521	WASHER - 5/16"	2
13	192- 20	LOCK WASHER - 5/16"	2

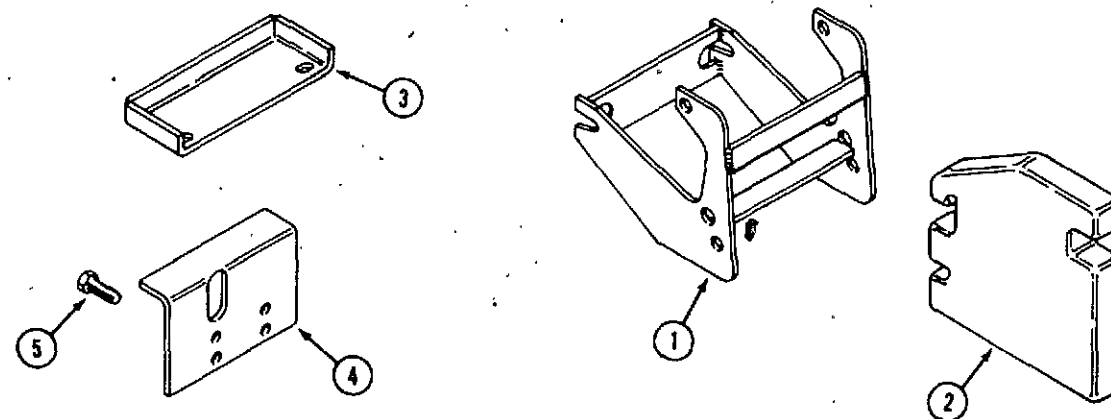


J17 - L17 HYDRAULIC PTO VALVE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 30044	VALVE - control	1
2	C 11891	SEAL - "U" cup	2
3	132- 5	PIN - cotter 1/16" x 1/2"	1
4	C 28875	PIN - handle	1
5	C 19422	BRACKET - handle	1
6	NSS	SCREW - 1/4" x 5/8" N.C. special head (use 165-143)	2
7	192- 19	LOCK WASHER - 1/4"	3
8	NSS	BODY AND SPOOL ASSEMBLY - (use C30044 valve)	1
9	C 11895	ADAPTER - spool	1
10	95- 4	WASHER - plain 1/4"	1
11	75- 48	SCREW - 1/4" x 1/2" round head	1
12	C 11893	COVER - 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 - cover No. 8 - 32 x 2-1/4" fillister head	4
18	C 19423	LEVER - valve	1
19	221- 842	PLUG - relief 3/8" pipe thread	1
20	C 28700	SHIM - .010" (0.25 mm) thick	UAR
21	C 28716	SPRING - relief	1
22	C 28698	SHIM - .020" thick (0.51 mm)	UAR
23	211- 11	BALL - relief 3/8" (9.53 mm)	1
24	C 18417	SEAT - relief	1
25	C 28696	"O" RING - relief seat	1
26	C 29045	KNOB - handle	1
27	C 26266	BUSHING - nylon	1

L11 WEIGHT KIT

1	C 25572	BRACKET - mounting, front	1
2	NSS	WEIGHT - 40 lb. (18 kg.) (order as machinery item)	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



FLOW CONTROL VALVE KIT

L19 (226)*

M19 (446, 448)*

N19 (226, 446, 448)**

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23618	VALVE - flow control	1
	C 28217	"O" RING - shaft 3/4" I.D. x 15/16" O.D. x 3/32"	2
	C 28710	RING - snap	2
2	C 18720	LEVER - valve	1
3	C 28251	KNOB - lever	1
4	113- 12	BOLT - 1/4" x 2-1/2" N.C. hex	2
5	131- 1180	NUT - lock 1/4" N.C. hex	4
6	218- 485	FITTING - elbow 90 degree 1/2" pipe thread	2
7	218- 445	FITTING - straight 1/2" pipe thread	1
8	C 25390	TUBE - flow control valve to tube (L19, M19)	1
8	C 33008	TUBE - flow valve to PTO, front half (N19)	1
9	C 23407	TUBE - bypass port to return line	1
10	C 23600	TUBE - flow valve to tractor valve (L19, M19)	1
10	C 33007	TUBE - flow valve to tractor valve (N19)	1
11	C 26181	TUBE - heat exchanger	1
12	C 18721	HOSE - return	1
13	214- 254	CLAMP - hose	2
14	C 23879	TUBE - PTO valve to tube (L19, M19) (226)	1
14	C 25392	TUBE - PTO valve to tube (M19) (446, 448)	1
15	C 33010	HOSE - flow valve to PTO, rear (226) (N19)	1
15	C 33011	HOSE - flow valve to PTO, rear (446, 448) (N19)	1
16	C 25391	PLATE - adapter	2
17	113- 2	BOLT - 1/4" - 20 x 5/8"	2
18	218- 545	FITTING - 45° elbow 5/8" tube x 3/4" NPTF (use to replace outlet in PTO valve) (N19)	1
	C 18719	DECAL - valve, "slow/fast"	1
	218- 5229	FITTING - 90° swivel 5/16" x 1/2" - 20 (N19) for hose clearance at T fitting	2

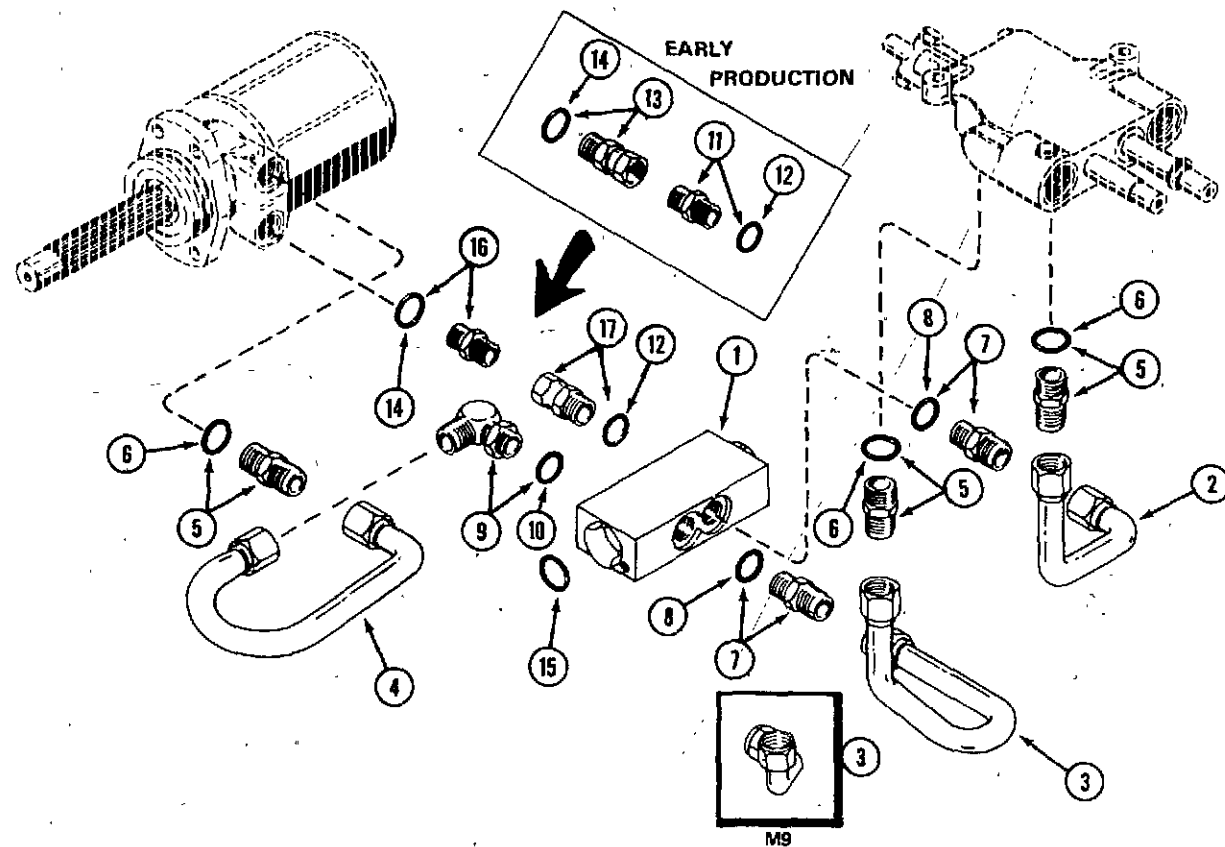
*Use before S/N:

**Use S/N and after:

226 - 14093640

446 - 14074315

448 - 14075995

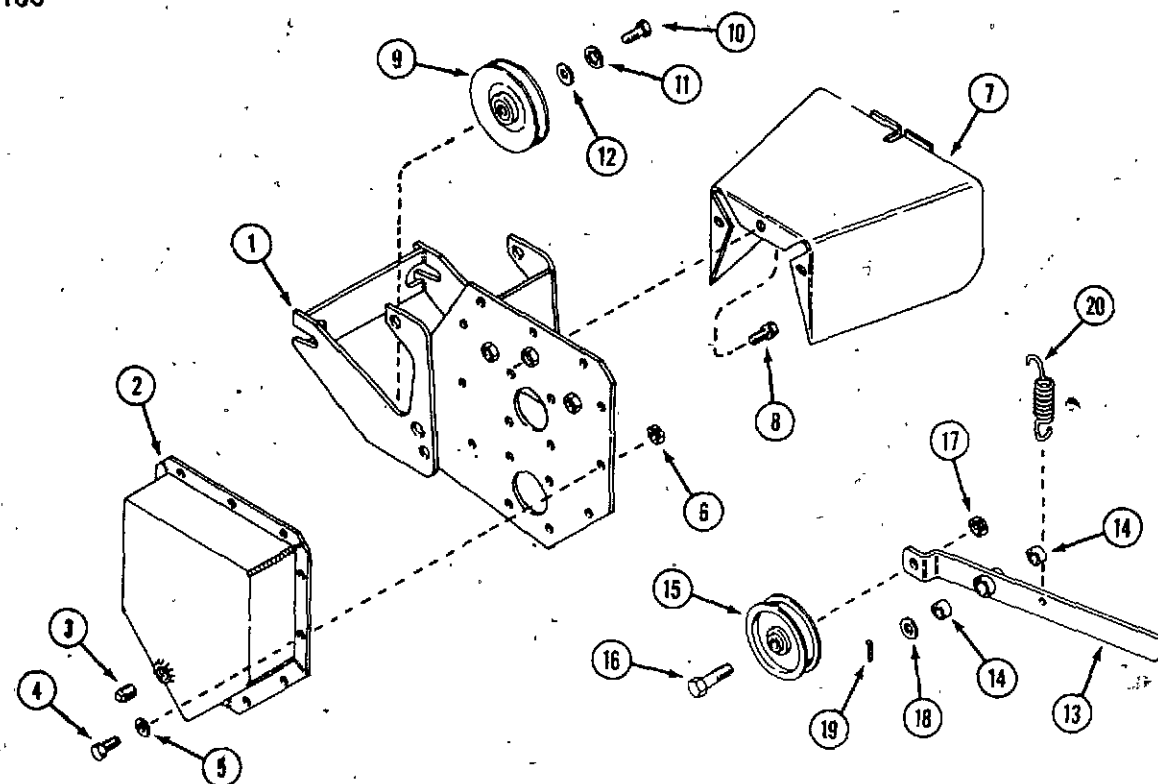


L7 HOLDING VALVE (226) M9 HOLDING VALVE (446, 448)

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24995	VALVE - holding (includes item 15)	1
2	C 24990	TUBE - valve to valve (L-7)	1
2	C 25341	TUBE - valve to valve (M9)	1
3	NSS	TUBE - valve to valve (M9) (use C27806, 218-5107, 218-5117)	1
3	C 24991	TUBE - valve to valve (L-7)	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	NSS	CONNECTOR - straight, male (Use 218-5406, 218-5254)	1
12	218-5006	"O" RING	1
13	218- 5251	CONNECTOR - straight, male/female swivel	1
14	218- 5007	"O" RING	1
15	C 28487	"O" RING - end caps	2
16	218- 5406	CONNECTOR - straight male	1
17	218- 5254	CONNECTOR - straight, male/female swivel	1

N9 HOLDING VALVE (446, 448)

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24995	VALVE - holding (includes item 15)	1
2	C 25341	TUBE - valve to valve	1
3	C 27806	TUBE - valve to valve	1
4	C 24994	TUBE - valve to motor	1
5	218- 5062	CONNECTOR - straight, male	2
6	218- 5007	"O" RING	1
7	218- 5066	CONNECTOR - straight, male	1
8	218- 5006	"O" RING	1
9	218- 5117	ELBOW - adjustable	2
10	218- 5006	"O" RING	1
11	218- 5254	CONNECTOR - straight, male/female, swivel	1
12	218- 5006	"O" RING	1
13	218- 5406	CONNECTOR - straight, male	1
14	218- 5007	"O" RING	1
15	C 28487	"O" RING - end caps	2
16	218- 5107	ELBOW - adjustable	1
17	218- 5007	"O" RING	1

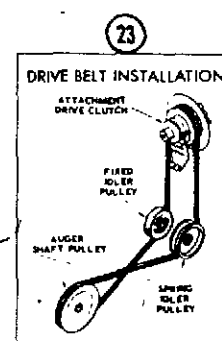
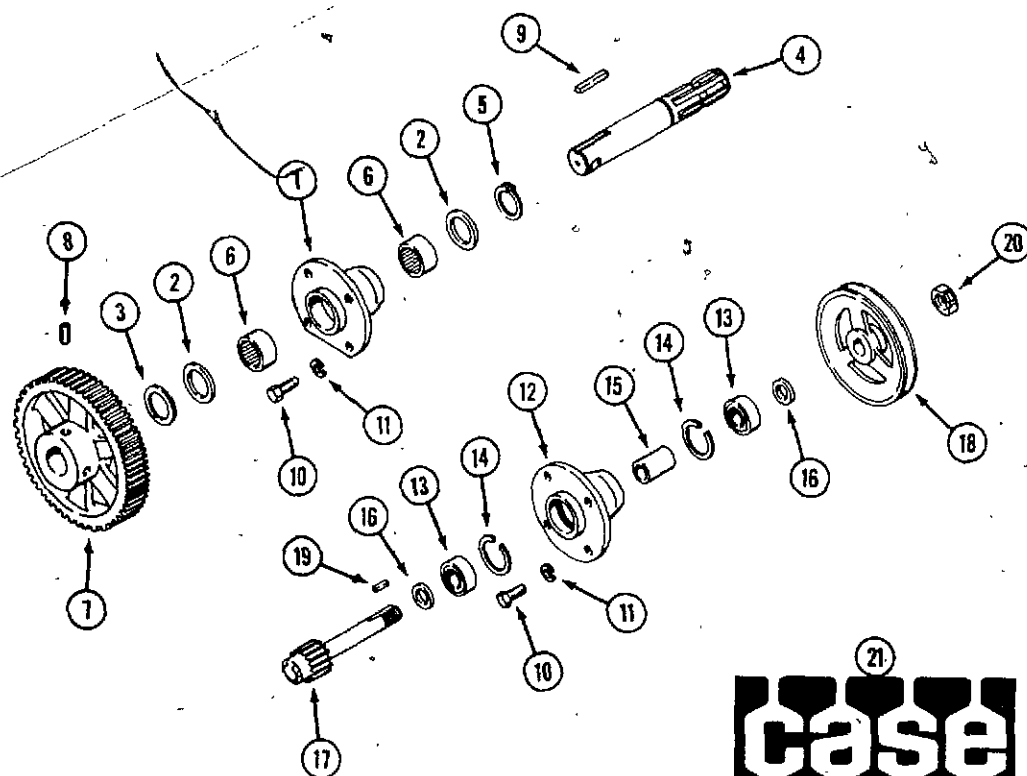


L29 PTO MOUNTING FRAME, SHIELD, IDLERS AND GEAR COVER

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25800	FRAME - mounting	1
2	C 25815	COVER - gear	1
3	221- 4	PLUG - oil	1
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	C 28308	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

REF.	PART NO.	DESCRIPTION	REQ'D
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	C 28258	RING - retainer	1
6	C 25828	BEARING - roller	2
7	C 25814	GEAR - driven	1
8	83- 68	SET SCREW - 3/8"	2
9	C 28260	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	C 28971	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	C 28289	KEY - 3/16" square x 7/8"	1
20	131- 1331	NUT - 3/4" - 16 lock, hex	1
21	321- 6379	DECAL - "Case" (early production)	1
22	C 28354	DECAL - "Warning"	1
23	C 17462	DECAL - drive belt	1
	C 23539	BELT - drive (446, 448)	1
	C 23538	BELT - drive (226)	1



NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C10314	47	2	C14730	39	20
C10657	25	1	C14827	53	4
C10678	19	32	C14828	53	7
C10678	25	1	C14829	53	8
C10810	107	15	C14830	53	9
C10883	97	20	C14831	53	10
C10898	91	4	C14836	53	15
C11529	25	5	C14837	53	5
C11886	101	15	C14838	53	16
C11887	101	16	C14906	33	11
C11891	101	2	C14976	87	3
C11892	101	14	C14991	87	9
C11893	101	12	C15036	57	21
C11895	101	9	C15096	45	16
C11901	101	13	C15410	37	14
C11906	43	6	C15410	39	14
C12102	43	18	C15410	41	9
C12110	47	5	C15515	35	7
C12552	63	26	C15557	35	8
C12713	63	2	C15731	57	4
C12718	63	36	C15732	57	5
C12725	63	21	C15733	57	6
C12975	43	10	C15734	57	7
C13106	43	8	C15735	57	8
C13106	47		C15737	57	10
C13106	65		C15738	57	11
C13196	63	16	C15739	57	12
C13197	63	17	C15740	57	13
C13241	63	5	C16128	87	20
C13266	63	7	C16164	47	6
C13360	59	1	C16361	37	31
C13385	63	6	C16361	39	31
C13605	43	17	C16362	37	12
C13716	43	6	C16362	39	12
C14168	63	23	C16373	37	24
C14201	45	7	C16373	39	24
C14222	63	39	C16429	41	7
C14223	63	37	C16516	53	1
C14304	77	5	C16516	107	14
C14459	91	5	C16581	95	1
C14534	41	12	C16616	35	1
C14537	69	8	C16697	49	35
C14537	71	8	C16697	51	35
C14537	73	9	C16697	53	
C14537	75	9	C16699	63	12
C14565	69	4	C16700	63	14
C14565	71	4	C16786	35	13
C14565	73	3	C16793	49	11
C14565	75	3	C16794	49	10
C14568	89	2	C16870	107	20
C14568	91	9	C17161	95	2
C14644	63	24	C17162	95	3
C14655	49	35	C17216	41	19
C14655	51	35	C17249	65	6
C14655	53		C17250	65	7
C14690	25	8	C17433	59	8
C14703	87	16	C17433	61	8
C14709	87	17	C17435	59	9
C14712	87		C17435	61	9
C14715	87	8	C17438	59	17
C14717	87	15	C17438	61	17
C14722	87	3	C17443	59	31
C14724	87	4	C17443	61	31
C14725	87	14	C17444	59	19
C14728	41	16	C17444	61	19
C14729	37	20	C17462	107	23
C14729	39	20	C17636	95	4
C14730	37	20	C17666	107	12

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C17734	65	5	C18092	53	15
C17859	95	1	C18110	53	10
C17860	95	3	C18113	71	14
C17863	95	2	C18147	47	7
C18092	53	15	C18153	37	11
C18110	53	10	C18251	65	3
C18113	71	14	C18328	53	6
C18147	47	7	C18417	101	24
C18153	37	11	C18719	103	
C18251	65	3	C18720	103	2
C18328	53	6	C18721	103	12
C18417	101	24	C18742	55	6
C18719	103		C18742	65	18
C18720	103	2	C18797	49	21
C18721	103	12	C18797	51	21
C18742	55	6	C18812	43	1
C18742	65	18	C18813	43	1
C18797	49	21	C18916	49	6
C18797	51	21	C18916	51	6
C18812	43	1	C18916	57	17
C18813	43	1	C19025	55	8
C18916	49	6	C19025	65	20
C18916	51	6	C19040	53	2
C18916	57	17	C19041	53	14
C19025	55	8	C19115	57	16
C19025	65	20	C19207	57	15
C19040	53	2	C19212	53	17
C19041	53	14	C19422	101	5
C19115	57	16	C19423	101	18
C19207	57	15	C19521	77	27
C19212	53	17	C19661	65	1
C19422	101	5	C19740	87	1
C19423	101	18	C19740	87	1
C19521	77	27	C19767	33	15
C19661	65	1	C19867	33	12
C19740	87	1	C20053	33	7
C19740	87	1	C20093	33	5
C19767	33	15	C20204	5	16
C19867	33	12	C20205	5	16
C20053	33	7	C20215	5	19
C20093	33	5	C20218	5	24
C20204	5	16	C20218	11	19
C20205	5	16	C20219	5	25
C20215	5	19	C20219	11	20
C20218	5	24	C20223	5	2
C20218	11	19	C20223	11	8
C20219	5	25	C20226	5	6
C20219	11	20	C20229	5	8
C20223	5	2	C20229	11	15
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C20226	5	6	C20233	11	16
C20229	5	8	C20241	5	14
C20229	11	15	C20241	11	3
C20233	5	11	C20243	7	20
C20233	11	16	C20243	13	23
C20241	5	14	C20244	7	21
C20241	11	3	C20244	13	21
C20243	7	20	C20245	7	22
C20243	13	23	C20245	13	22
C20244	7	21	C20247	7	24
C20244	13	21	C20247	13	42
C20245	7	22	C20248	7	25
C20245	13	22	C20250	7	26
C20247	7	24	C20250	13	24
C20247	13	42			
C20248	7	25			
C20250	7	26			
C20250	13	24			

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C20359	27	1	C22568	43	19
C20360	27	2	C22573	77	6
C20361	27	3	C22581	19	3
C20369	27	4	C22618	7	5
C20371	27	6	C22618	13	5
C20372	27	8	C22619	7	36
C20375	27	12	C22619	13	5
C20376	27	13	C22620	7	36
C20387	17	1	C22620	13	5
C20393	17	17	C22621	7	36
C20396	17	11	C22621	13	5
C20397	17	25	C22622	13	5
C20398	17	24	C22632	15	3
C20399	17	22	C22633	15	16
C20405	17	23	C22637	63	14
C20407	17	20	C22638	63	12
C20411	17	14	C22889	31	9
C20411	19	40	C22947	17	
C20412	9	45	C22947	19	33
C20412	19	41	C22947	49	36
C20425	21	3	C22947	51	36
C20427	21	5	C22947	97	
C20428	21	6	C23012	77	2
C20429	21	7	C23300	17	12
C20430	21	8	C23304	5	10
C20431	21	9	C23320	13	20
C20432	21	10	C23320	15	11
C20433	21	11	C23321	15	21
C20437	21	15	C23330	77	1
C20438	21	16	C23337	99	5
C20439	21	17	C23407	103	9
C20440	21	18	C23470	35	10
C20441	21	19	C23482	29	1
C20443	21	21	C23527	25	7
C20444	21	22	C23527	37	5
C20445	21	23	C23527	39	5
C20446	21	24	C23538	107	
C20447	21	25	C23539	107	
C20448	21	26	C23558	29	5
C20449	21	27	C23559	29	6
C20450	21	28	C23580	31	10
C20471	9	40	C23581	31	9
C20471	13	27	C23600	103	10
C20517	7	39	C23618	103	1
C20565	15	41	C23624	35	16
C20574	7	31	C23627	35	15
C20574	15	29	C23630	35	17
C21506	59	22	C23686	31	12
C21506	61	22	C23854	67	3
C21507	59	7	C23879	103	14
C21507	61	7	C23888	99	8
C21511	59		C23899	47	14
C21518	55	5	C23910	47	11
C21518	65	15	C23962	99	9
C21857	47	9	C24069	77	23
C21989	69	12	C24098	45	18
C22023	37	6	C24137	37	3
C22023	39	6	C24137	39	3
C22261	5	7	C24296	31	8
C22261	11	14	C24325	5	28
C22262	5	29	C24325	11	9
C22262	11	21	C24326	5	3
C22264	5	31	C24326	11	10
C22278	43	5	C24447	87	
C22316	47	1	C24460	73	10
C22369	19	28	C24460	75	10
C22424	19	4	C24665	21	
C22500	5	26	C24666	21	

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C24689	25	11	C25100	67	10
C24703	31	1	C25227	69	32
C24741	35	2	C25227	71	36
C24761	47	15	C25227	73	39
C24803	63	4	C25227	75	39
C24804	63	3	C25237	49	16
C24809	69	3	C25237	51	16
C24813	69	6	C25254	63	38
C24813	71	6	C25317	37	17
C24813	73	6	C25318	37	17
C24813	75	6	C25333	49	10
C24814	69	5	C25334	49	11
C24814	71	5	C25338	69	30
C24814	73	4	C25338	71	6
C24814	75	4	C25338	73	7
C24815	69	2	C25338	75	7
C24815	71	2	C25341	105	2
C24815	73	5	C25341	105	2
C24815	75	5	C25343	99	8
C24820	37	25	C25344	99	9
C24821	37	2	C25368	89	4
C24827	49	20	C25369	89	3
C24843	63		C25370	107	9
C24861	57	3	C25371	91	2
C24927	17	7	C25382	91	8
C24929	17	13	C25383	17	5
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C24931	11	1	C25384	5	16
C24932	5	12	C25384	11	5
C24932	11	1	C25385	5	16
C24933	5	12	C25385	11	5
C24933	11	1	C25386	5	16
C24934	5	12	C25386	11	5
C24934	11	1	C25389	15	38
C24935	5	12	C25390	103	8
C24935	11	1	C25391	103	16
C24938	5	15	C25392	103	14
C24938	11	4	C25486	69	10
C24939	5	15	C25486	71	7
C24939	11	4	C25486	73	8
C24940	5	15	C25486	75	8
C24940	11	4	C25489	27	1
C24941	5	15	C25490	27	2
C24941	11	4	C25541	107	16
C24943	5	5	C25563	69	27
C24946	7	13	C25564	69	1
C24946	13	12	C25572	101	1
C24948	7	27	C25604	25	3
C24948	13	25	C25774	5	17
C24949	7	33	C25774	11	6
C24950	7	34	C25775	5	18
C24951	27	18	C25775	11	7
C24953	27	20	C25784	49	12
C24956	69	20	C25784	51	12
C24956	71	20	C25789	91	5
C24956	73	32	C25791	101	3
C24956	75	32	C25792	101	4
C24958	15	12	C25800	107	1
C24990	105	2	C25806	107	1
C24991	105	3	C25807	107	2
C24994	105	4	C25808	107	4
C24994	105	4	C25810	107	17
C24995	105	1	C25813	107	18
C24995	105	1	C25814	107	7
C25022	47	4	C25815	107	2
C25048	53	3	C25817	107	7
C25071	31	2	C25822	107	13
C25073	31	7	C25828	107	6

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C25845	69	24	C26020	97	6
C25845	71	24	C26021	47	7
C25845	73	36	C26058	31	12
C25845	75	36	C26058	31	12
C25855	43	21	C26062	31	8
C25856	43	21	C26090	107	15
C25857	43	13	C26098	29	3
C26020	97	6	C26108	69	21
C26021	47	7	C26108	71	21
C26058	31	12	C26108	73	22
C26058	31	12	C26108	75	22
C26062	31	8	C26166	35	3
C26090	107	15	C26181	103	11
C26098	29	3	C26182	49	23
C26108	69	21	C26182	51	23
C26108	71	21	C26188	65	25
C26108	73	22	C26188	87	2
C26108	75	22	C26191	15	36
C26166	35	3	C26202	17	5
C26181	103	11	C26202	19	24
C26182	49	23	C26207	31	5
C26182	51	23	C26207	31	5
C26188	65	25	C26255	27	9
C26188	87	2	C26255	49	1
C26191	15	36	C26255	51	1
C26202	17	5	C26264	33	3
C26202	19	24	C26264	33	6
C26207	31	5	C26266	101	27
C26207	31	5	C26278	49	7
C26255	27	9	C26278	51	7
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C26255	51	1	C26325	45	2
C26264	33	3	C26326	45	4
C26264	33	6	C26342	63	15
C26266	101	27	C26381	47	2
C26278	49	7	C26455	29	3
C26278	51	7	C26456	49	12
C26278	57	1	C26456	51	12
C26325	45	2	C26506	37	29
C26326	45	4	C26506	39	29
C26342	63	15	C26508	67	
C26381	47	2	C26526	41	31
C26455	29	3	C26656	79	11
C26456	49	12	C26656	81	11
C26456	51	12	C26657	79	11
C26506	37	29	C26657	81	11
C26506	39	29	C26663	59	26
C26508	67		C26663	61	26
C26526	41	31	C26664	59	24
C26656	79	11	C26664	61	24
C26656	81	11	C26665	59	23
C26657	79	11	C26665	61	23
C26657	81	11	C26666	59	25
C26663	59	26	C26666	61	25
C26663	61	26	C26668	59	11
C26664	59	24	C26668	61	11
C26664	61	24	C26670	69	7
C26665	59	23	C26670	71	31
C26665	61	23	C26670	73	42
C26666	59	25	C26670	75	42
C26666	61	25	C26699	79	2
C26668	59	11			
C26668	61	11			
C26670	69	7			
C26670	71	31			
C26670	73	42			
C26670	75	42			
C26699	79	2			

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C26699	81	2	C27871	85	5
C26699	83	2	C27902	43	24
C26699	85	2	C27917	81	6
C26703	17	21	C27917	83	6
C26703	19	1	C27919	81	7
C26707	97	3	C27919	83	7
C26708	97	12	C27920	81	8
C26709	97	2	C27920	83	8
C26709	97	13	C27922	81	6
C26710	97	14	C27922	83	6
C26711	97	15	C27923	81	7
C26712	97	16	C27923	83	7
C26722	97	4	C27924	81	8
C26724	97	6	C27924	83	8
C26725	97	7	C27944	81	1
C26726	97	8	C27956	81	13
C26727	97	11	C27958	81	14
C26816	37	4	C27959	81	15
C26817	37	4	C27962	81	12
C26827	41	2	C27962	83	12
C26829	41	15	C27963	81	12
C26831	41	15	C27963	83	12
C26833	41	15	C28003	69	11
C26835	41	15	C28003	71	11
C26877	79	1	C28030	25	
C26877	79	1	C28033	27	6
C26900	49	37	C28034	27	7
C26900	51	37	C28105	97	18
C26941	37	1	C28113	69	14
C26946	79	6	C28215	57	9
C26968	31	8	C28217	61	3
C26969	31	7	C28217	103	
C26971	31	2	C28222	87	13
C26974	31	1	C28226	43	11
C27153	37	1	C28232	43	23
C27176	79	8	C28232	43	25
C27178	79	7	C28236	47	8
C27179	79	4	C28241	63	18
C27181	79	8	C28251	103	3
C27182	79	7	C28258	107	5
C27183	79	4	C28260	107	9
C27217	49	28	C28281	63	8
C27217	59		C28288	33	13
C27217	65	26	C28289	107	19
C27219	59	29	C28294	31	3
C27224	41	2	C28294	31	3
C27501	45	9	C28304	71	32
C27506	21	20	C28308	107	14
C27507	17	2	C28315	5	23
C27508	37	8	C28321	11	22
C27508	39	8	C28321	49	5
C27527	71	1	C28321	51	5
C27530	71	30	C28354	107	22
C27549	71	35	C28487	105	15
C27549	73	11	C28487	105	15
C27549	75	11	C28673	69	25
C27564	41	17	C28673	71	25
C27593	55	12	C28673	73	37
C27597	43	22	C28673	75	37
C27734	33	14	C28677	35	6
C27755	47	8	C28696	101	25
C27763	47	2	C28698	101	22
C27764	51	30	C28699	59	1
C27806	105	3	C28700	101	20
C27822	65	16	C28701	53	13
C27871	81	5	C28703	53	11
C27871	83	5	C28704	53	8
			C28705	59	14

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C27871	85	5	C28705	61	14
C27902	43	24	C28706	59	13
C27917	81	6	C28706	61	13
C27917	83	6	C28707	59	12
C27919	81	7	C28707	61	12
C27919	83	7	C28708	59	18
C27920	81	8	C28708	61	18
C27920	83	8	C28709	57	1
C27922	81	6	C28710	103	
C27922	83	6	C28711	57	5
C27923	81	7	C28712	57	7
C27923	83	7	C28713	57	10
C27924	81	8	C28714	57	8
C27924	83	8	C28715	57	14
C27944	81	1	C28716	101	21
C27956	81	13	C28718	57	2
C27958	81	14	C28719	27	5
C27959	81	15	C28720	17	4
C27962	81	12	C28720	19	19
C27962	83	12	C28856	59	4
C27963	81	12	C28856	61	4
C27963	83	12	C28874	53	12
C28003	69	11	C28875	101	4
C28003	71	11	C28932	77	4
C28030	25		C28937	19	38
C28033	27	6	C28937	19	39
C28034	27	7	C28937	25	3
C28105	97	18	C28937	25	6
C28113	69	14	C28940	25	4
C28215	57	9	C28949	49	34
C28217	61	3	C28949	51	34
C28217	103		C28962	25	2
C28222	87	13	C28964	97	19
C28226	43	11	C28965	47	6
C28232	43	23	C28968	31	3
C28232	43	25	C28971	107	13
C28236	47	8	C28978	47	19
C28241	63	18	C28985	87	12
C28251	103	3	C28987	49	18
C28258	107	5	C28987	51	18
C28260	107	9	C29044	45	3
C28281	63	8	C29045	65	11
C28288	33	13	C29045	101	26
C28289	107	19	C29046	33	1
C28294	31	3	C29047	55	1
C28294	31	3	C29074	71	14
C28304	71	32	C29074	73	25
C28308	107	14	C29202	81	16
C28315	5	23	C29283	29	1
C28321	11	22	C29284	29	1
C28321	49	5	C29288	31	1
C28321	51	5	C29290	31	10
C28354	107	22	C29290	31	10
C28487	105	15	C29291	31	9
C28487	105	15	C29292	31	2
C28673	69	25	C29294	31	7
C28673	71	25	C29296	25	10
C28673	73	37	C29298	27	1
C28673	75	37	C29302	27	2
C28677	35	6	C29305	41	22
C28696	101	25	C29306	41	23
C28698	101	22	C29308	37	25
C28699	59	1	C29309	49	20
C28700	101	20	C29309	51	20
C28701	53	13	C29314	37	32
C28703	53	11	C29314	39	32
C28704	53	8	C29315	37	33
C28705	59	14	C29322	73	26

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C29322	75	26	C29949	19	14	C30126	39	33
C29323	37	35	C29950	61	28	C30127	45	18
C29323	39	35	C29951	61	5	C30128	55	3
C29407	55	3	C29952	19	5	C30130	55	
C29408	65	10	C29953	17	3	C30133	55	15
C29409	33	18	C29953	19	18	C30134	39	19
C29410	71	3	C29955	19	25	C30142	39	25
C29410	73	2	C29956	61	2	C30143	37	2
C29410	75	2	C29957	19	29	C30143	39	2
C29411	71	33	C29958	61	29	C30260	73	13
C29412	71	34	C29959	19	35	C30260	75	13
C29413	69	9	C29969	19	16	C30262	73	14
C29413	71	9	C29972	5	13	C30262	75	14
C29506	19	30	C29972	11	2	C30263	73	15
C29506	27	14	C29974	7	15	C30263	75	15
C29645	55	4	C29974	13	13	C30264	73	1
C29646	55		C29975	9	43	C30265	73	20
C29646	71	11	C29975	13	13	C30265	75	20
C29647	55	13	C29976	9	43	C30268	69	15
C29648	55	14	C29976	13	13	C30268	71	15
C29649	55	15	C29977	9	43	C30274	83	11
C29650	55	16	C29977	13	13	C30274	85	11
C29650	73	16	C29978	9	43	C30275	73	23
C29650	75	16	C29978	13	13	C30275	75	23
C29651	55	17	C29979	7	32	C30276	77	28
C29652	55	18	C29980	9	45	C30279	73	18
C29653	55	19	C29981	9		C30279	75	18
C29655	51	11	C29981	13	45	C30450	55	17
C29656	51	10	C29982	9		C30450	73	17
C29657	51	11	C29982	13	45	C30450	75	17
C29658	51	10	C29983	15	1	C30458	39	17
C29689	51	28	C29984	15	13	C30460	39	17
C29689	61	1	C29985	15	42	C30462	39	17
C29697	49	14	C29988	27	1	C30464	39	17
C29697	51	14	C29989	27	3	C30466	41	27
C29698	29	6	C29990	67		C30467	41	27
C29716	37	1	C29990	69	23	C30470	41	27
C29719	37	1	C29990	71	29	C30471	41	27
C29732	53		C29990	73	33	C30480	73	27
C29733	69	19	C29990	75	33	C30489	41	20
C29733	71	19	C29991	67	6	C30523	39	1
C29733	73	31	C29992	67	13	C30526	39	1
C29733	75	31	C29992	69	29	C30530	73	27
C29734	15	20	C29992	71	37	C30530	75	27
C29735	35	11	C29992	73	34	C30539	85	10
C29736	67	9	C29992	75	34	C30545	93	4
C29739	5	15	C30002	61		C30827	55	20
C29739	11	4	C30004	37	34	C30912	47	3
C29740	81	1	C30004	39	34	C30913	47	1
C29750	5	16	C30019	45	17	C30917	47	1
C29751	5	16	C30029	63	9	C30922	47	1
C29752	69	22	C30030	63	25	C30939	51	35
C29752	71	22	C30031	63	34	C30939	53	
C29752	73	38	C30033	19	34	C30942	77	7
C29752	75	38	C30044	99	1	C30960	85	6
C29754	9	41	C30044	101	1	C30961	85	6
C29755	9	42	C30046	97	1	C30964	85	7
C29812	45	5	C30054	65	29	C30965	85	7
C29868	19	15	C30054	89		C30966	85	8
C29868	23		C30066	41	8	C30967	85	8
C29869	19	15	C30071	41	8	C31004	41	6
C29943	19	2	C30073	25	2	C31005	41	14
C29944	19	17	C30074	25	4	C31006	41	30
C29945	19	6	C30077	25	3	C31020	41	1
C29946	19	10	C30116	37	4	C31021	41	1
C29947	19	11	C30116	39	4	C31026	35	
C29948	17	16	C30117	37	4	C31029	75	1
C29948	19	13	C30117	39	4	C31044	75	25

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C31045	35	9	C32407	75	28	113-103	97	13
C31050	83	1	C32420	5	26	113-103	99	11
C31050	85	1	C32423	97	7	113-111	57	14
C31213	75	24	C32424	97	7	113-113	37	18
C31249	69	31	C32427	87	18	113-118	29	2
C31249	71	10	C32462	15	33	113-118	41	4
C31249	73	30	C32463	5	21	113-118	87	10
C31249	75	30	C32468	11	13	113-120	15	31
C31279	39	11	C32470	11	17	113-121	17	6
C31309	53	2	C32486	63	22	113-121	19	22
C31310	53	3	C33007	103	10	113-122	41	11
C31311	53	4	C33008	103	8	113-132	7	38
C31312	53	5	C33010	103	15	113-132	13	30
C31313	53	5	C33011	103	15	113-204	9	49
C31314	53	6	C33234	51	35	113-206	45	1
C31315	53	7	C33234	53		113-206	49	2
C31316	53	7	C33276	47	10	113-206	51	2
C31318	53	9	C33305	63	28	113-206	99	6
C31319	53	10	C33308	45	13	113-206	107	10
C31320	53	11	C33309	45	12	113-206	107	10
C31321	53	12	C33403	13	1	113-207	33	8
C31322	53	13	C33411	25	1	113-207	65	8
C31323	53		C33412	25	1	113-207	65	21
C31327	53	1	F53109	57	2	113-207	95	6
C31623	71	32	022-844	89	3	113-208	7	4
C31623	73	29	022-844	91	13	113-208	13	3
C31623	75	29	026-526	7	30	113-219	37	16
C31947	73	12	026-532	7	29	113-219	39	16
C31947	75	12	026-544	15	32	113-241	45	6
C31992	47	22	028-608	63	34	113-257	15	23
C31993	47	22	028-662	53	16	113-321	5	22
C31994	47	16	028-688	53	1	113-412	107	16
C32093	83	13	041-26	7	2	113-417	87	5
C32093	85	12	041-26	13	2	113-417	91	14
C32169	35	12	061-512	31	6	113-417	95	4
C32178	69	18	061-512	31	6	113-417	101	5
C32178	71	18	062-616	49	3	113-424	37	22
C32178	73	21	062-616	51	3	113-424	39	22
C32178	75	21	075-48	101	11	113-424	41	4
C32178	77		083-68	107	8	113-424	59	3
C32199	57	20	092-5	19	23	113-424	63	40
C32200	97	1	095-4	101	10	113-427	41	3
C32209	97	8	111-5	25	5	113-441	41	3
C32210	97	8	111-101	97	10	113-2262	47	12
C32211	97	9	111-108	77	18	113-2400	91	6
C32213	97	23	111-139	77	12	114-200	15	18
C32214	97	17	111-202	77	17	121-3	27	15
C32272	13	28	111-371	95	5	121-21	63	20
C32273	13	29	111-521	93	4	121-106	39	18
C32274	13	16	111-525	93	4	121-106	41	13
C32275	13	16	113-1	17	18	121-106	107	8
C32276	13	31	113-1	27	3	126-9	5	9
C32277	13	32	113-1	29	4	126-9	11	12
C32278	13	33	113-1	49	38	126-9	11	18
C32281	13	38	113-1	51	38	126-13	5	1
C32282	13	44	113-3	77	24	126-128	63	13
C32288	11	30	113-3	107	4	129-13	77	21
C32299	69	26	113-4	15	25	129-15	77	5
C32299	71	26	113-5	97	17	129-17	25	7
C32299	73	35	113-12	103	4	129-23	37	21
C32299	75	35	113-17	77	25	129-27	77	15
C32332	97	12	113-2	103	17	129-36	77	3
C32376	17	15	113-65	17	9	129-37	77	8
C32376	25	9	113-65	19	21	129-101	17	19
C32403	97	5	113-102	41	24	129-101	27	5
C32407	69	16	113-103	15	34	129-101	37	28
C32407	71	16	113-103	19	26	129-101	39	28
C32407	73	28	113-103	67	26	129-101	67	25

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
129- 101	77	11	138- 308	87	5
129- 101	97	18	138-2072	55	11
129- 102	31	4	138-2073	37	23
129- 102	31	4	138-2073	39	23
129- 102	77	19	138-2073	47	3
129- 103	45	8	138-2073	63	11
129- 103	95	7	141- 54	47	20
129- 105	89	4	163- 22	27	21
129- 105	91	10	164- 40	35	4
129- 105	95	6	165- 142	97	10
129- 122	55	7	165- 143	67	7
129- 122	65	19	165- 143	97	9
129- 125	35	14	166- 32	57	15
129- 143	47	13	166- 85	51	29
129- 165	43	15	166- 86	37	22
129- 166	59	27	166- 86	39	22
129- 166	61	27	166- 86	49	29
129- 365	43	16	166- 86	51	29
129- 531	59	10	166- 86	63	40
129- 531	61	10	169- 88	101	17
131- 165	107	17	169- 114	59	20
131- 176	87	11	169- 114	61	20
131- 178	33	16	169- 133	27	11
131- 351	49	31	173- 210	77	9
131- 351	51	31	182- 10	77	20
131- 629	77	1	182- 49	27	7
131- 911	15	43	182- 84	15	5
131- 911	19	27	182- 147	77	26
131- 911	41	25	182- 152	19	8
131- 911	97	16	182- 246	49	30
131- 934	41	29	182- 520	67	1
131- 934	97	11	182- 525	15	39
131-1133	63	35	182- 525	17	26
131-1180	49	39	182- 545	67	4
131-1180	51	39	182- 547	5	27
131-1180	103	5	182- 547	37	26
131-1180	107	6	182- 547	39	26
131-1181	37	9	182- 547	41	28
131-1181	39	9	182- 559	19	36
131-1181	41	21	182- 559	25	8
131-1181	65	9	182- 571	77	7
131-1181	65	22	187-1036	19	7
131-1182	93	2	187-1036	25	12
131-1182	93	2	187-1036	27	8
131-1308	47	5	187-1036	29	4
131-1318	37	7	187-1036	37	30
131-1318	39	7	187-1036	39	30
131-1331	107	20	187-1073	27	17
132- 5	101	3	187-1252	49	40
132- 91	87	6	187-1252	51	40
132- 306	91	12	187-1334	77	2
132- 310	33	10	187-1511	19	31
132- 310	47	18	187-1511	27	23
132- 310	65	4	187-1910	43	12
132- 310	87	4	192- 13	77	22
132- 311	43	9	192- 15	77	6
132- 318	107	19	192- 16	67	5
132- 320	33	10	192- 18	15	40
132- 320	55	10	192- 18	25	6
132- 320	65	13	192- 18	77	14
132- 321	47	21	192- 19	15	24
132- 334	37	13	192- 19	17	10
132- 334	39	13	192- 19	19	20
136- 2	27	10	192- 19	27	4
138- 59	87	19	192- 19	29	7
138- 63	33	9	192- 19	37	27
138- 99	43	4	192- 19	39	27
138- 143	45	10	192- 19	67	8

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
192- 19	77	13	192- 19	77	13
192- 19	97	19	192- 19	97	19
192- 19	101	7	192- 20	17	8
192- 20	17	8	192- 20	37	19
192- 20	37	19	192- 20	41	5
192- 20	41	5	192- 20	67	27
192- 20	67	27	192- 20	97	15
192- 20	97	15	192- 20	99	13
192- 21	7	12	192- 21	7	12
192- 21	13	19	192- 21	13	19
192- 21	15	22	192- 21	15	22
192- 21	45	14	192- 21	45	14
192- 21	49	4	192- 21	51	4
192- 21	51	4	192- 21	95	8
192- 21	95	8	192- 21	99	7
192- 21	107	11	192- 21	107	11
192- 23	39	21	192- 23	39	21
192- 23	41	5	192- 23	41	5
192- 23	43	14	192- 23	43	14
192- 23	59	2	192- 23	59	2
192- 23	63	19	192- 23	63	19
192- 23	91	7	192- 23	91	7
192- 23	95	7	192- 23	95	7
192- 402	67	8	192- 402	67	8
192- 404	31	13	192- 404	31	13
192- 404	31	13	192- 404	31	13
192- 545	91	11	192- 545	91	11
193- 57	67	24	193- 57	67	24
193- 57	77	10	193- 57	77	10
193- 68	107	11	193- 68	107	11
193- 76	35	5	193- 76	35	5
193- 99	77	16	193- 99	77	16
195- 14	27	9	195- 14	27	9
195- 102	19	42	195- 102	19	42
195- 102	27	22	195- 102	27	22
195- 102	67	28	195- 102	67	28
195- 103	107	12	195- 103	107	12
195- 104	33	17	195- 104	33	17
195- 104	49	24	195- 104	49	24
195- 104	51	24	195- 104	51	24
195- 104	65	23	195- 104	65	23
195- 513	67	2	195- 513	67	2
195- 516	19	9	195- 516	19	9
195- 518	77	29	195- 518	77	29
195- 521	55	9	195- 521	55	9
195- 521	59	28	195- 521	59	28
195- 521	65	17	195- 521	65	17
195- 521	97	14	195- 521	97	14
195- 521	99	12	195- 521	99	12
195- 521	107	5	195- 521	107	5
195- 525	37	10	195- 525	37	10
195- 525	39	10	195- 525	39	10
195- 525	41	18	195- 525	41	18
195- 525	95	9	195- 525	95	9
195- 526	97	5	195- 526	97	5
195- 533	33	2	195- 533	33	2
195- 533	47	17	195- 533	47	17
195- 533	55	12	195- 533	55	12
195- 533	65	14	195- 533	65	14
195- 533	93	3	195- 533	93	3
195- 533	93	3	195- 533	93	3
195- 533	95	5	195- 533	95	5
195- 541	45	11	195- 541	45	11
195- 541	87	7	195- 541	87	7
195- 541	91	3	195- 541	91	3
195- 541	107	18	195- 541	107	18

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
195-2010	7	23	218-5107	49	26
195-2010	13	39	218-5107	51	26
195-2029	37	15	218-5107	97	3
195-2029	39	15	218-5107	105	16
195-2069	45	15	218-5117	105	9
195-2131	107	3	218-5117	105	9
195-2175	41	10	218-5201	97	2
211- 5	15	8	218-5229	103	
211- 5	59	16	218-5232	97	21
211- 5	61	16	218-5232	99	10
211- 7	7	37	218-5251	105	13
211- 7	13	43	218-5254	105	17
211- 7	59	30	218-5254	105	11
211- 7	61	30	218-5406	105	16
211- 11	101	23	218-5406	105	13
211- 208	59	6	218-5479	89	5
211- 208	61	6	219- 17	43	20
211- 216	5	4	219- 403	47	4
211- 216	11	11	219- 404	43	7
211- 306	57	13	219- 404	65	2
211- 844	15	15	219- 405	87	2
214- 14	49	19	221- 3	63	10
214- 14	51	19	221- 4	107	3
214- 252	19	12	221- 841	59	21
214- 254	49	13	221- 841	61	21
214- 254	51	13	221- 842	101	19
214- 254	103	13	221-1139	89	1
214- 258	69	34	221-1190	15	26
214- 258	71	23	221-1375	89	2
214- 258	73	40	221-1377	15	27
214- 258	75	40	221-1849	15	35
214- 272	31	11	223- 30	69	28
214- 272	31	11	223- 30	71	28
218- 445	103	7	321-1788	79	5
218- 457	99	2	321-1788	81	4
218- 485	103	6	321-1788	83	4
218- 494	99	3	321-1788	85	4
218- 545	103	18	321-4767	79	3
218- 927	99	4	321-4767	81	3
218-5006	49	22	321-4767	83	3
218-5006	51	22	321-4767	85	3
218-5006	105	8	321-6379	107	21
218-5006	105	10	321-6659	79	9
218-5006	105	12	321-6659	81	9
218-5006	105	8	321-6659	83	9
218-5006	105	10	321-6659	85	9
218-5006	105	12	353- 462	33	4
218-5007	49	9			
218-5007	49	27			
218-5007	49	33			
218-5007	51	9			
218-5007	51	27			
218-5007	51	33			
218-5007	105	6			
218-5007	105	14			
218-5007	105	6			
218-5007	105	14			
218-5007	105	17			
218-5056	65	27			
218-5062	49	32			
218-5062	51	32			
218-5062	97	4			
218-5062	105	5			
218-5062	105	5			
218-5065	49	8			
218-5065	51	8			
218-5066	105	7			
218-5066	105	7			