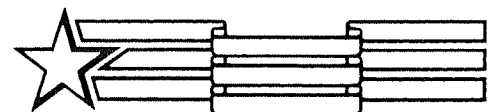
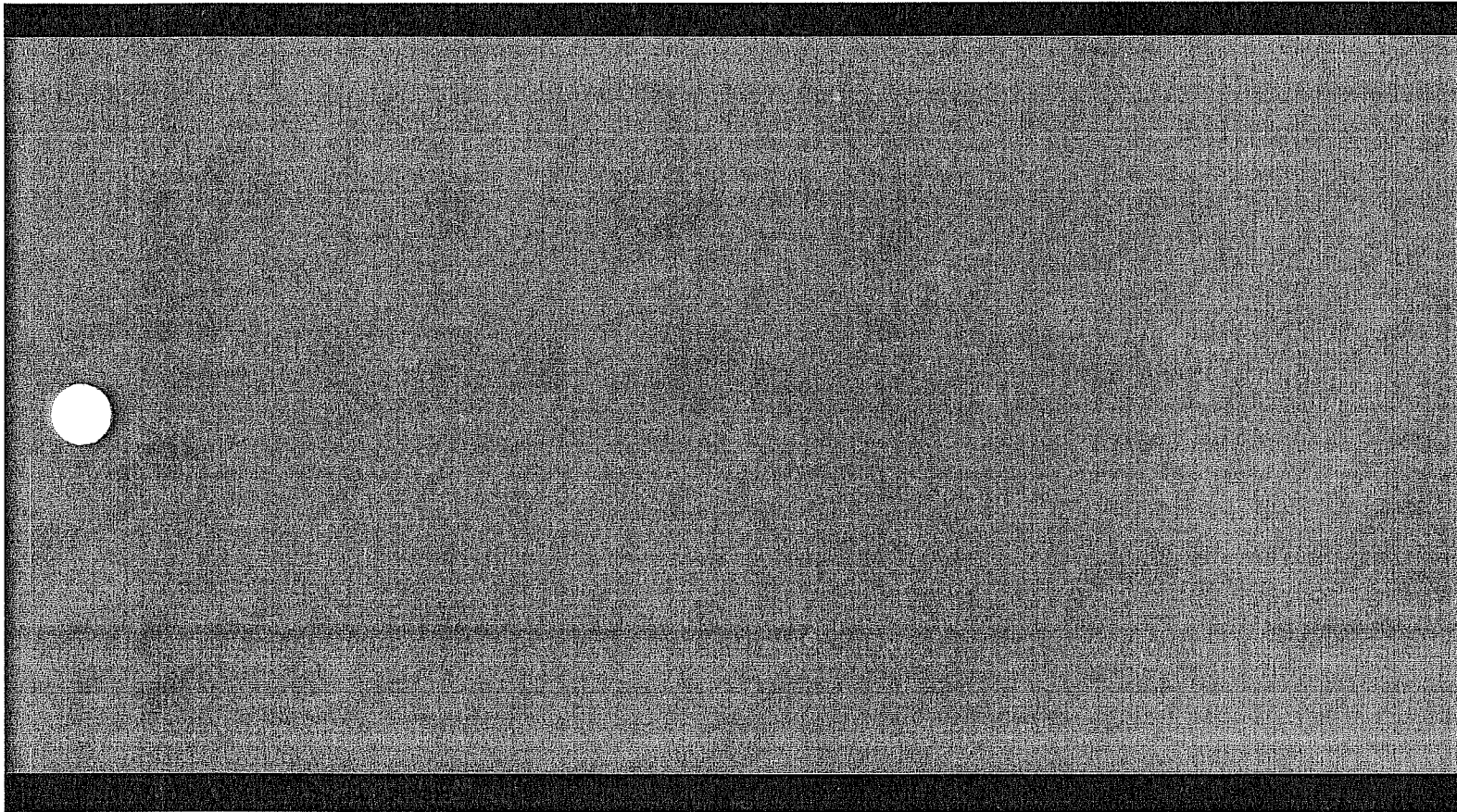


Ingersoll

COMPACT TRACTOR
MODEL 446
S/N 9728158 TO 9742953
Parts Catalog B1298

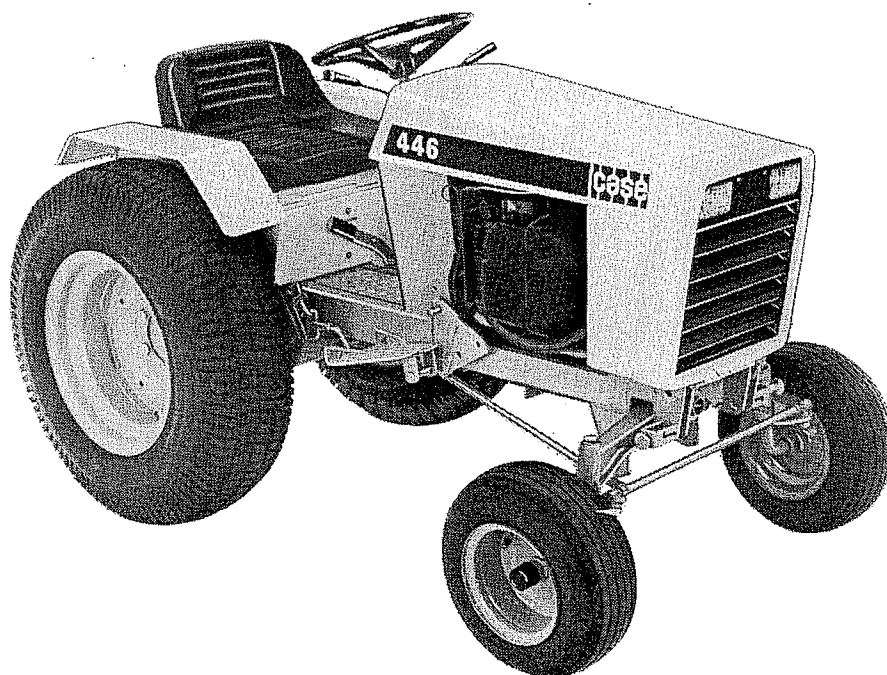


QUALITY IN THE AMERICAN TRADITION

Ingersoll Equipment Co., Inc. Winneconne, Wisconsin 54986-9576

**COMPACT TRACTOR
MODEL 446
S/N 9728158 TO 9742953
Parts Catalog B1298**

NOTE: This catalog
replaces A1298



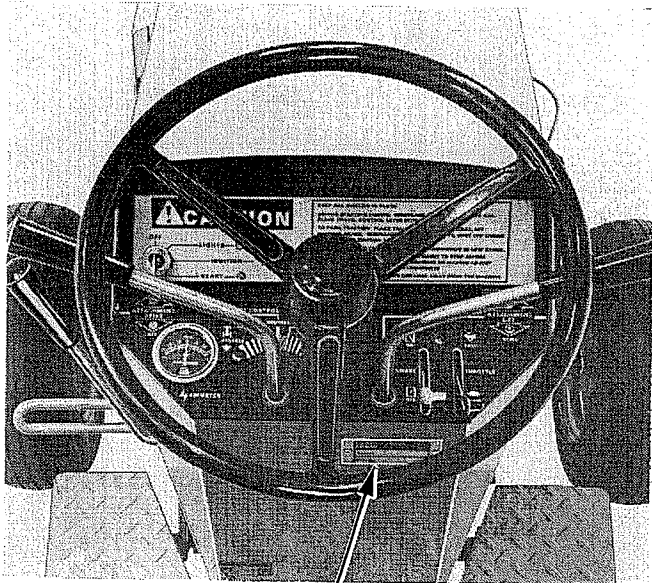
Printed in U.S.A.

J I Case
A Tenneco Company

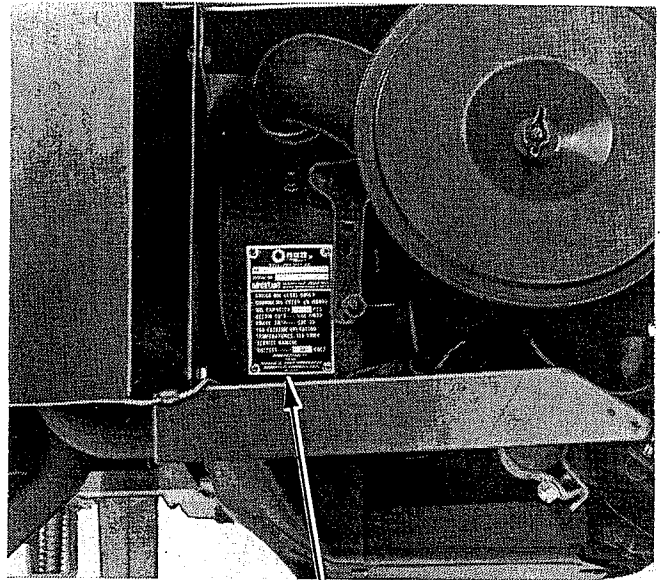


OPE Division
Technical Publications
119 S. First Street
Winneconne, Wis. 54986

CASE 446 COMPACT TRACTOR



TRACTOR MODEL AND
SERIAL NUMBER



ENGINE MODEL, SERIAL AND
SPECIFICATION NUMBERS

TRACTOR MODEL DESIGNATIONS	ENGINE MODEL DESIGNATIONS
446 TRACTOR	ONAN BF-MS C19029 ENGINE SPEC. NO. 2891E AND 3177E
	ONAN B43M - GA016 C24787 ENGINE SPEC. NO. 3419A

SERIAL NUMBERS

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

GENERAL INFORMATION

Indexes

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

Illustrations

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

Orders

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

Changes

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

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

Indented Description

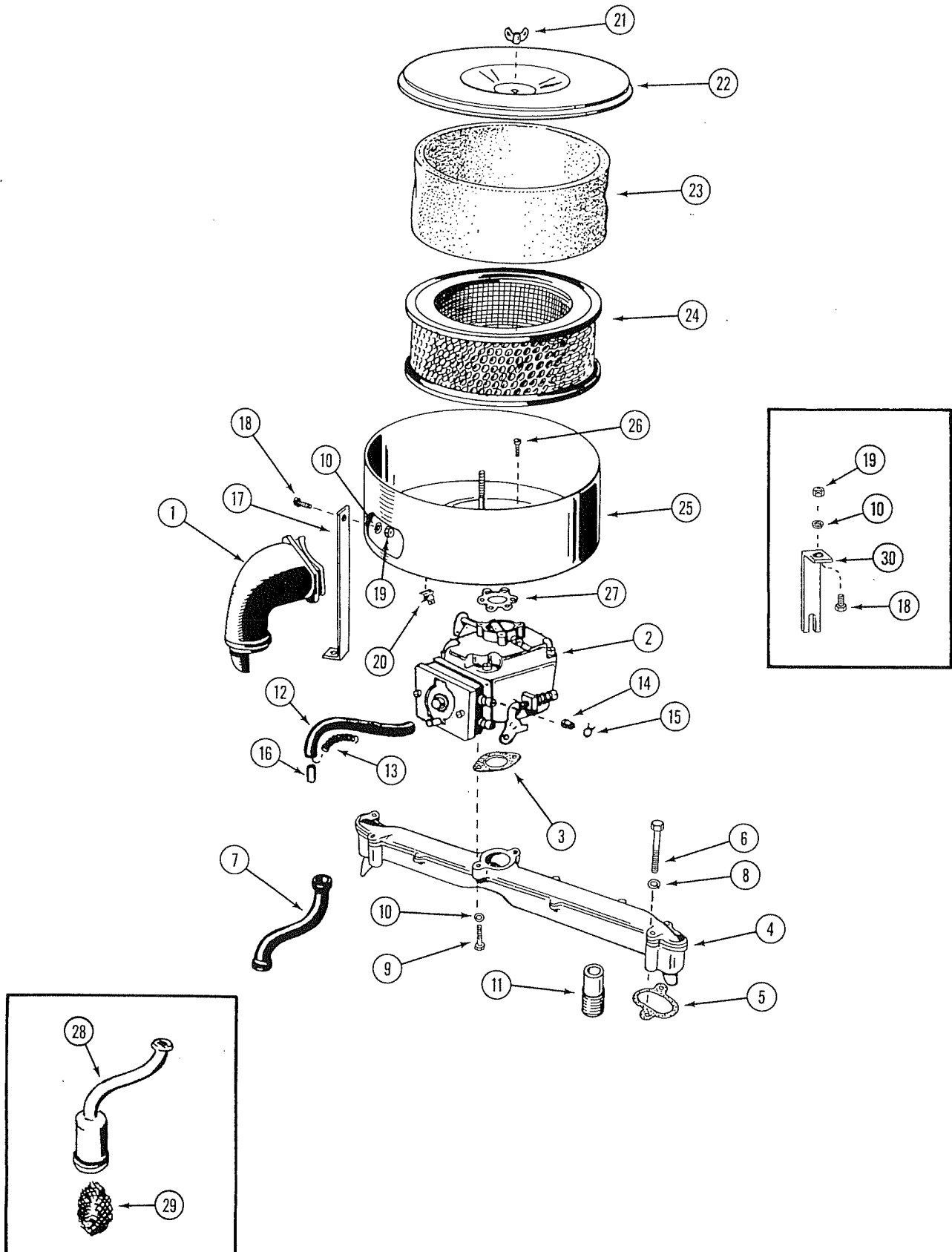
Indented parts in the descriptive list are a part of the preceding assembly or sub-assembly.

The quantity shown in the "Number Required" column is the number of parts used on a machine except where parts are indented in descriptive list. In this case the quantity shown is the number required for the preceding assembly or sub-assembly.

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

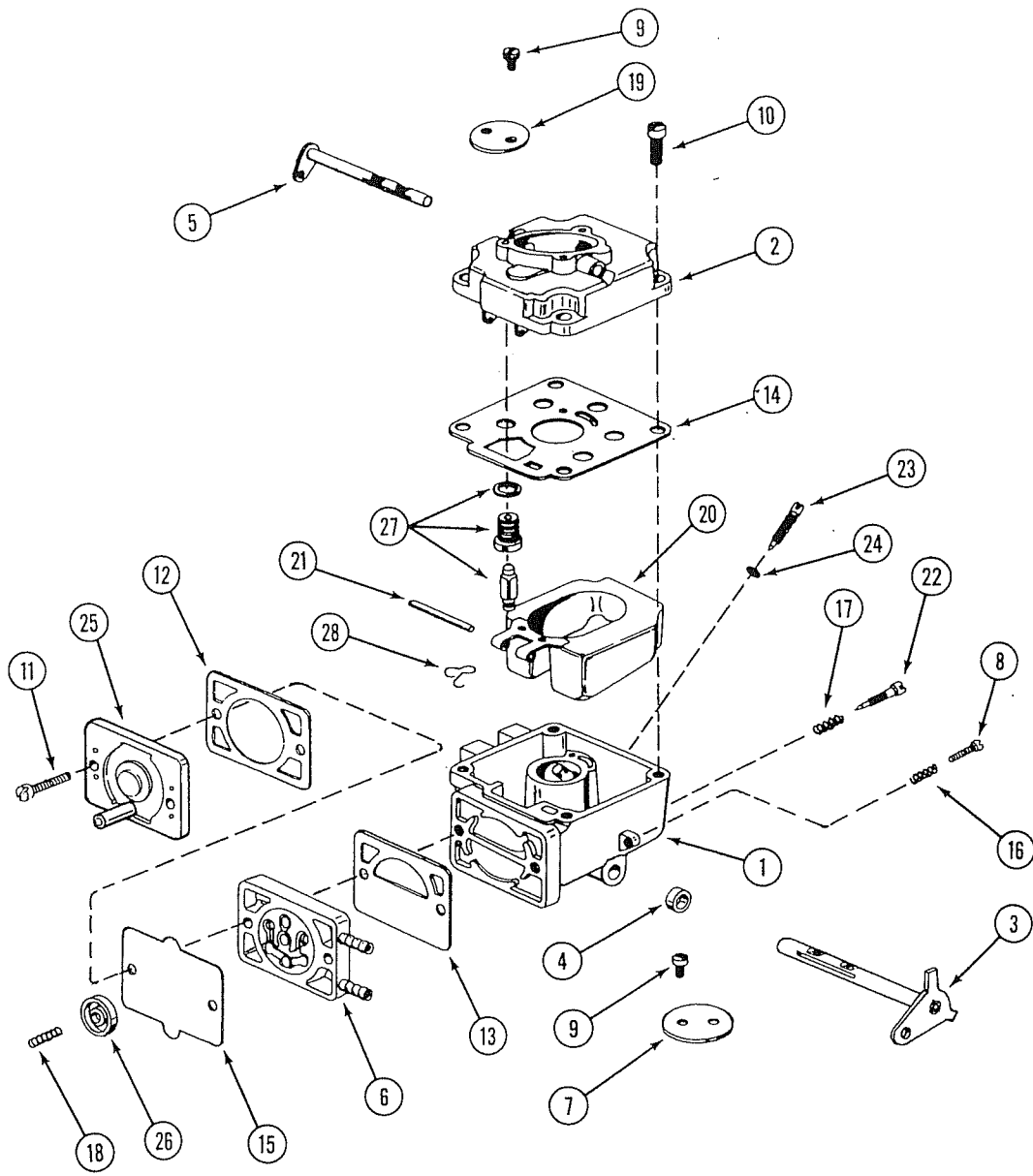
Terms "Right Hand" and "Left Hand"

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



CARBURETOR, AIR FILTER AND MANIFOLD

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 20387	TUBE - air intake	1
2	C 27507	CARBURETOR AND FUEL PUMP ASSEMBLY - (repairs page 7)	1
3	C 20389	GASKET - carburetor mtg.	1
4	C 20390	MANIFOLD - engine intake	1
5	C 26202	GASKET - intake manifold	2
6	13- 536	BOLT - manifold 5/16" x 2-1/4" (for BF-MS engine)	4
6	13- 532	BOLT - manifold 5/16" x 2" (for B43M engine)	4
7	C 20261	HOSE - breather (for BF-MS engine)	1
8	92- 5	LOCKWASHER - 5/16"	4
9	13- 420	BOLT - 1/4" x 1-1/4" N.C. hex (for BF-MS engine)	2
9	113- 65	BOLT - 1/4" x 1-3/4" (for B43M engine)	2
10	192- 19	LOCKWASHER - 1/4"	3
11	C 20401	NIPPLE - exhaust, 1" x 2-1/2"	2
12	C 23300	HOSE - fuel pump	1
13	C 20406	SPRING - fuel pump hose (early production)	1
14	C 20411	CAP - fuel pump	1
15	214- 102	CLAMP - hose 7/16"	1
16	C 20412	TUBE - fuel pump vacuum (in eng. block)	1
17	C 20393	SUPPORT - air cleaner	1
18	13- 48	BOLT - 1/4" x 1/2" N.C. hex	1
19	25- 104	NUT - 1/4" N.C. hex	1
20	C 20407	CLIP - choke cable	2
21	C 26703	NUT - wing 1/4"	1
22	C 20399	COVER - air cleaner	1
23	C 20405	PRE-CLEANER	1
24	C 20398	ELEMENT - air cleaner	1
25	C 20397	HOUSING - air cleaner	1
26	182- 525	SCREW - #10 x 3/8" round head	3
27	C 20396	GASKET - air cleaner mtg.	1
28	C 24927	HOSE - breather (for B43M engine)	1
29	C 29948	FILTER - breather (for B43M engine)	1
30	C 24929	BRACKET - support (for B43M engine)	1

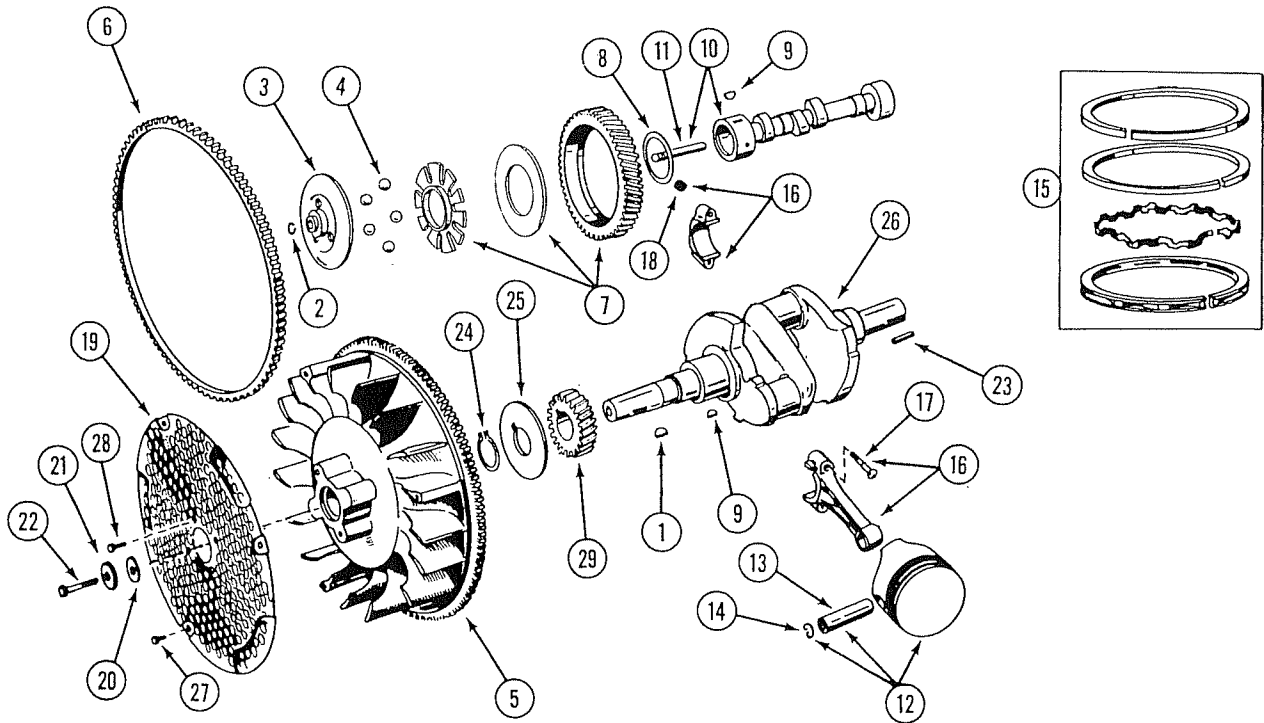


7

CASE MODEL 446 COMPACT TRACTOR
CARBURETOR AND FUEL PUMP ASSEMBLY

C20388 CARBURETOR USED PRIOR TO ENGINE S/N H763193402
IS REPLACED BY
C24926 CARBURETOR USED ENGINE S/N H763193402 AND AFTER

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	BODY ASSEMBLY - carburetor (order C24926 carburetor)	1
2	NSS	SLEEVE ASSEMBLY - carburetor (order C24926 carburetor)	1
3	NSS	SHAFT - throttle (See kit below)	1
4	NSS	PACKING - shaft (See kit below)	1
5	C 20427	SHAFT - choke	1
6	NSS	VALVE - plate assembly (See kit below)	1
7	C 20429	FLY - throttle	1
8	C 20430	SCREW - throttle stop.	1
9	NSS	SCREW - fly mounting (See kit below)	4
10	C 20432	SCREW - bowl cover mtg.	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	NSS	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	FLY - choke	1
20	C 27506	FLOAT ASSEMBLY - carburetor	1
21	C 20443	PIN - float (See kit below)	1
22	NSS	NEEDLE - idle adjust (See kit below)	1
23	C 20445	NEEDLE ASSEMBLY - power	1
24	C 20446	"O" RING - needle assembly	1
25	C 20447	COVER - fuel pump	1
26	C 20448	PLATE - spring, fuel pump (See kit below)	2
27	NSS	INLET - needle and seat assembly (See kit below)	1
28	C 20450	CLIP - float pin	1
	C 20451	KIT - gasket set (includes items 4, 12, 13 and 14) for C20388 carburetor. . .	1
	C 20452	KIT - repair (includes items 3, 6, 9, 15, 17, 18, 21, 22, 26, 27 and C20451 gasket kit) for C20388 carburetor	1
	C 24665	KIT - gasket (includes items 4, 12, 13 and 14) for C24926 carburetor . . .	1
	C 24666	KIT - repair (includes items 3, 6, 9, 15, 17, 18, 21, 22, 26, 27 and gasket kit) for C24926 carburetor	1

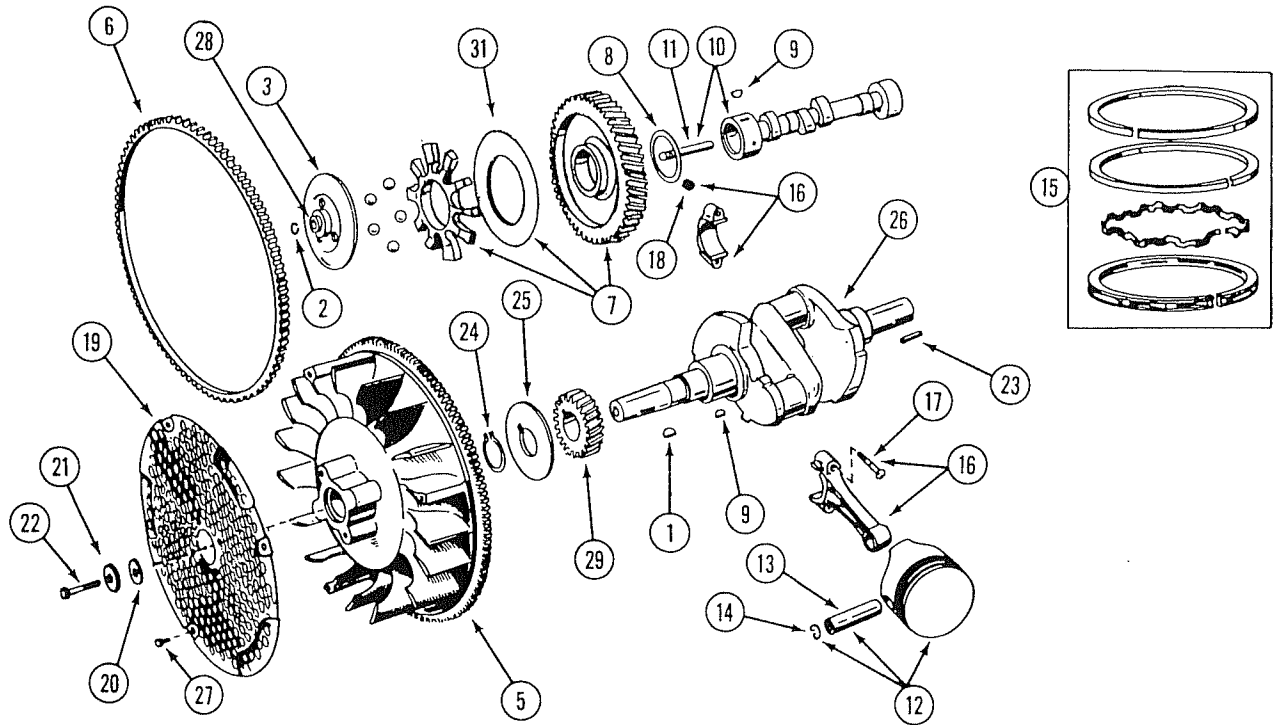


PISTON, CRANKSHAFT, FLYWHEEL AND CAMSHAFT (BF-MS ENGINE)

REF.	PART NO.	DESCRIPTION	REQ'D
1	126- 13	KEY - woodruff 3/16" x 5/8" , flywheel mtg.	1
2	C 20223	RING - camshaft center pin	1
3	C 22260	CUP - governor	1
4	211- 216	BALL - fly, governor	5
5	C 24943	FLYWHEEL - eng. (includes ring gear & magnet ring)	1
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"	2
10	C 32469	CAMSHAFT - (includes C 20233 pin).	1
11	C 20233	PIN - camshaft center	1
12	NLA*	PISTON AND PIN ASSEMBLY - standard (includes item 14)	2
12	NLA*	PISTON AND PIN ASSEMBLY - .005" oversize (includes item 14)	2
12	NLA*	PISTON AND PIN ASSEMBLY - .010" oversize (includes item 14)	2
12	NLA*	PISTON AND PIN ASSEMBLY - .020" oversize (includes item 14)	2
12	NLA*	PISTON AND PIN ASSEMBLY - .030" oversize (includes item 14)	2
12	NLA*	PISTON AND PIN ASSEMBLY - .040" oversize (includes item 14)	2
13	C 29972	PIN - piston	2
14	C 20241	RETAINER - piston pin	4
15	C 23311	RING SET - piston, (standard)	2
15	NLA*	RING SET - piston, (.005" oversize)	2
15	NLA*	RING SET - piston, (.010" oversize)	2
15	NLA*	RING SET - piston, (.020" oversize)	2
15	NLA*	RING SET - piston, (.030" oversize)	2
15	NLA*	RING SET - piston, (.040" oversize)	2
16	C 29750	CONNECTING ROD ASSEMBLY - (standard) includes 17 and 18.	2
16	C 25775	CONNECTING ROD ASSEMBLY - (.010" undersize) includes 17 and 18. .	2
16	C 20204	CONNECTING ROD ASSEMBLY - (.020" undersize) includes 17 and 18. .	2
16	C 20205	CONNECTING ROD ASSEMBLY - (.030" undersize) includes 17 and 18. .	2
17	C 25774	BOLT - connecting rod, special 5/16" N.F. hex	4
18	C 25775	NUT - lock, connecting rod 5/16" N.F. hex	4
19	C 20215	SCREEN - flywheel	1
20	C 20303	WASHER - 7/16" flywheel mtg.	1
21	92- 7	LOCKWASHER - 7/16".	1
22	13- 764	BOLT - 7/16" x 4" N.C. hex, flywheel mtg.	1
23	C 28315	KEY - 1/4 x 1/4" sq. x 2", rear crankshaft	1
24	C 20218	RETAINER - crankshaft gear	1
25	C 20219	WASHER - retaining, crankshaft gear	1
26	C 22500	CRANKSHAFT - engine	1
27	164- 529	SCREW - locking 1/4" x 1/2" N.C. hex	3
28	C 20222	SCREW - locking 5/16" x 1/2" N.C. hex.	2
29	C 22262	GEAR - crankshaft	1

* Pistons and rings are no longer available.

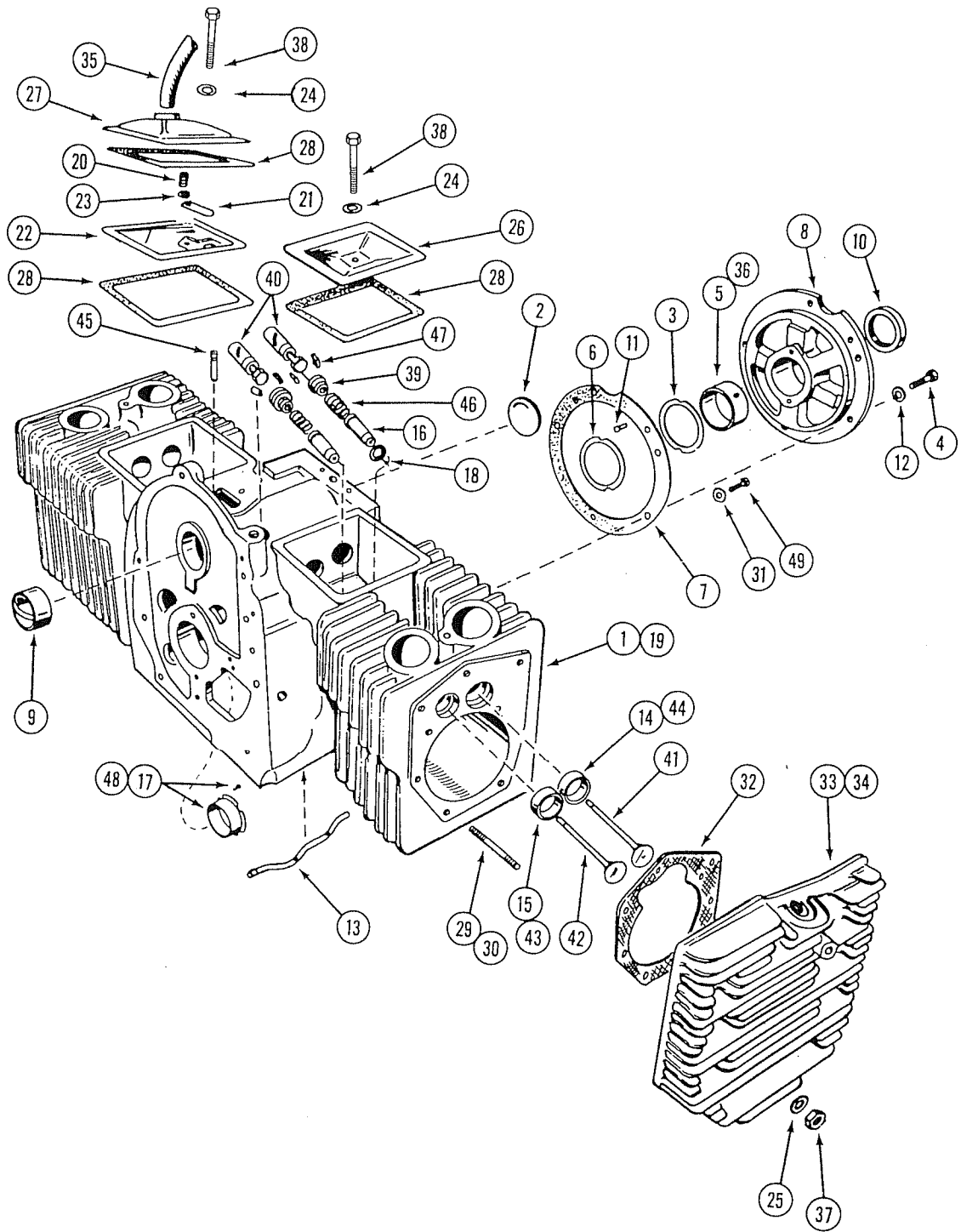
Must use C40929 short block and C33098,C29981



PISTON, CRANKSHAFT, FLYWHEEL AND CAMSHAFT (B43M ENGINE)

REF.	PART NO.	DESCRIPTION	REQ'D
1	126- 13	KEY - woodruff 3/16" x 5/8" , flywheel mtg.	1
2	C 20223	RING - camshaft center pin	1
3	C 24326	CUP - governor	1
4	211- 216	BALL - fly, governor	5
5	C 24943	FLYWHEEL - eng. (includes ring gear & magnet ring)	1
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"	2
10	C 32469	CAMSHAFT - (includes C 20233 pin).	1
11	C 20233	PIN - camshaft center	1
12	C 24931*	PISTON AND PIN ASSEMBLY - standard (includes item 14)	2
12	C 24932*	PISTON AND PIN ASSEMBLY - .005" oversize (includes item 14)	2
12	C 24933*	PISTON AND PIN ASSEMBLY - .010" oversize (includes item 14)	2
12	C 24934*	PISTON AND PIN ASSEMBLY - .020" oversize (includes item 14)	2
12	C 24935*	PISTON AND PIN ASSEMBLY - .030" oversize (includes item 14)	2
12	NLA	PISTON AND PIN ASSEMBLY - .040" oversize (includes item 14)	2
13	C 20240	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" oversize)	2
15	C 24939	RING SET - piston, (.010" oversize)	2
15	C 24940	RING SET - piston, (.020" oversize)	2
15	C 24941	RING SET - piston, (.030" oversize)	2
15	C 24942	RING SET - piston, (.040" oversize)	2
16	C 29750	CONNECTING ROD ASSEMBLY - (standard) includes 17 and 18.	2
16	C 29751	CONNECTING ROD ASSEMBLY - (.010" undersize) includes 17 and 18. .	2
16	C 20204	CONNECTING ROD ASSEMBLY - (.020" undersize) includes 17 and 18. .	2
16	C 20205	CONNECTING ROD ASSEMBLY - (.030" undersize) includes 17 and 18. .	2
17	C 25774	BOLT - connecting rod, special 5/16" N.F. hex	4
18	C 25775	NUT - lock, connecting rod 5/16" N.F. hex	4
19	C 20215	SCREEN - flywheel	1
20	C 20303	WASHER - 7/16" flywheel mtg.	1
21	92- 7	LOCKWASHER - 7/16".	1
22	13- 764	BOLT - 7/16" x 4" N.C. hex, flywheel mtg.	1
23	C 28315	KEY - 1/4 x 1/4" sq. x 2", rear crankshaft	1
24	C 20218	RETAINER - crankshaft gear	1
25	C 20219	WASHER - retaining, crankshaft gear	1
26	C 22500	CRANKSHAFT - engine	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

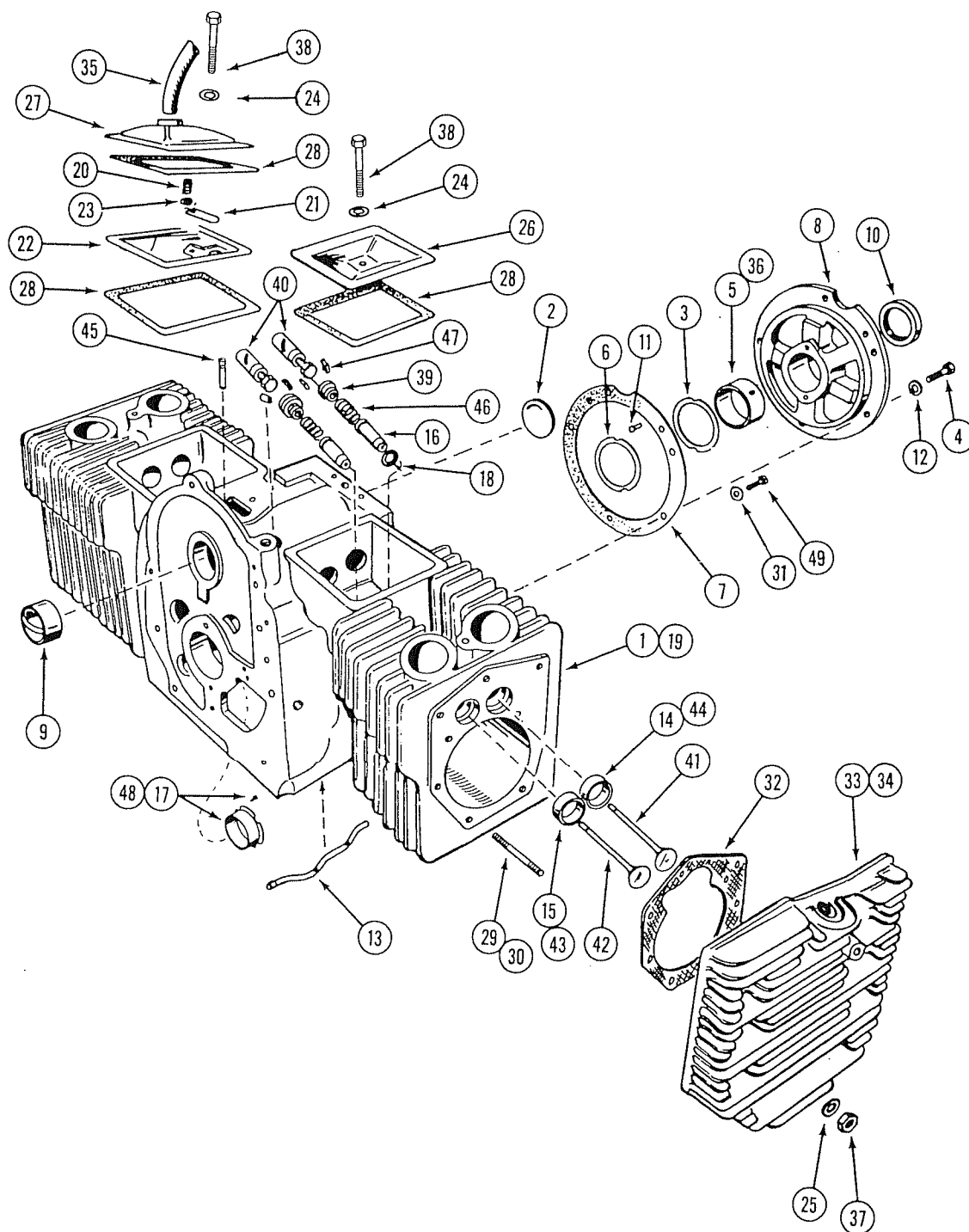
* When current supply is gone this piston
will sub to piston and rings assembly.
The ring sets in this catalog can not be
used with the new piston assemblies.



ENGINE BLOCK AND ATTACHING PARTS

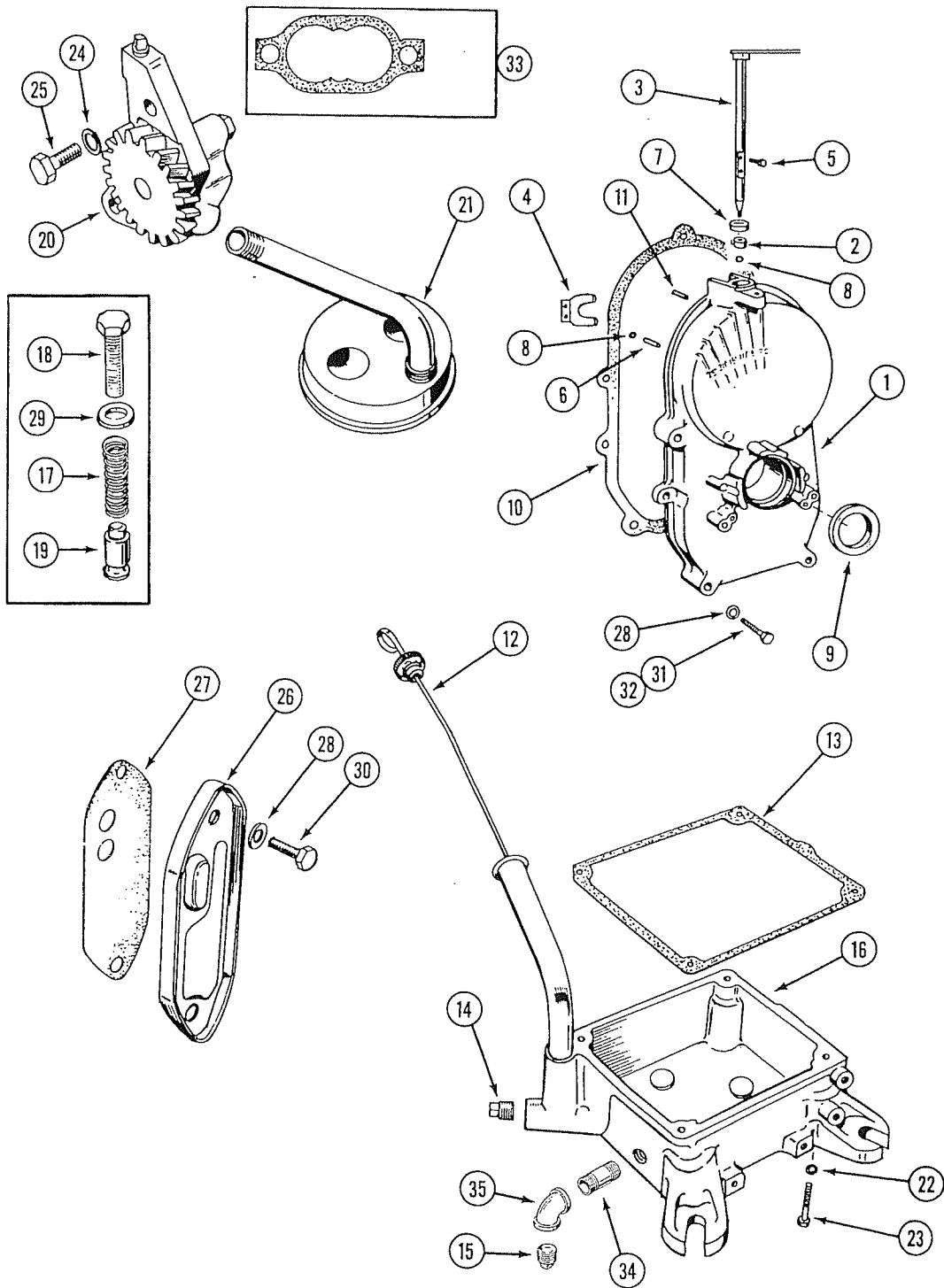
REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	BLOCK ASSEMBLY - cylinder, standard bore (for B43M engine)	1
1	NSS	BLOCK ASSEMBLY - cylinder, standard bore (for BF-MS engine)	1
2	41- 26	PLUG - camshaft expansion	1
3	C 20256	SHIM - rear bearing plate (.005").	UAR
4	13- 620	BOLT - 3/8" x 1-1/4" N.C. hex	5
5	C 22618	BEARING - crankshaft, rear (std.)	1
6	C 20267	WASHER - thrust, crankshaft bearing.	2
7	C 20268	GASKET - bearing plate	1
8	C 20269	PLATE - bearing (excludes bearing)	1
9	C 20270	BEARING - camshaft	2
10	C 20271	SEAL - bearing plate	1
11	C 20272	PIN - main bearing stop	4
12	92- 6	LOCKWASHER - 3/8" bearing plate	5
13	C 20279	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 (std.)	1
18	C 20302	GASKET - valve guide, intake	2
19	C 21568	BLOCK ASSEMBLY - short (for BF-MS engine) (includes: cylinder and crankcase, all bearings, crankshaft, camshaft, timing gear, governor gear case, rods, pistons, rings, valves, oil pump and breather tube . . .	1
19	C 40929*	BLOCK ASSEMBLY - short (for B43M engine) (includes: cylinder and crankcase, all bearings, crankshaft, camshaft, timing gear, governor gear case, rods, pistons, 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 L.H.	1
27	C 20249	COVER - valve R.H.	1
28	C 20251	GASKET - valve cover.	3
29	C 20253	STUD - cylinder head 5/16" x 2-5/16" N.F.	6
30	C 20254	STUD - cylinder head 5/16" x 2-1/16" N.F.	12
31	C 20574	WASHER - copper 3/8".	2
32	C 29979	GASKET - cylinder head	2
33	C 20258	HEAD - L.H.	1
34	C 20259	HEAD - R.H.	1
35	C 20261	HOSE - breather.	1
36	C 22619	BEARING - crankshaft, rear (.002" undersize).	1
36	C 22620	BEARING - crankshaft, rear (.010" undersize).	1
36	C 22621	BEARING - crankshaft, rear (.020" undersize).	1
36	C 22622	BEARING - crankshaft, rear (.030" undersize).	1
37	129- 102	NUT - cylinder head 5/16" N.C. hex	18
38	13- 428	BOLT - valve cover 1/4" x 1-3/4" hex	2
39	C 20517	RETAINER - valve spring	4
40	C 20276	TAPPET - valve (standard)	4
40	C 20470	TAPPET - valve (.001" oversize)	4

*Also use C33098 and C28721



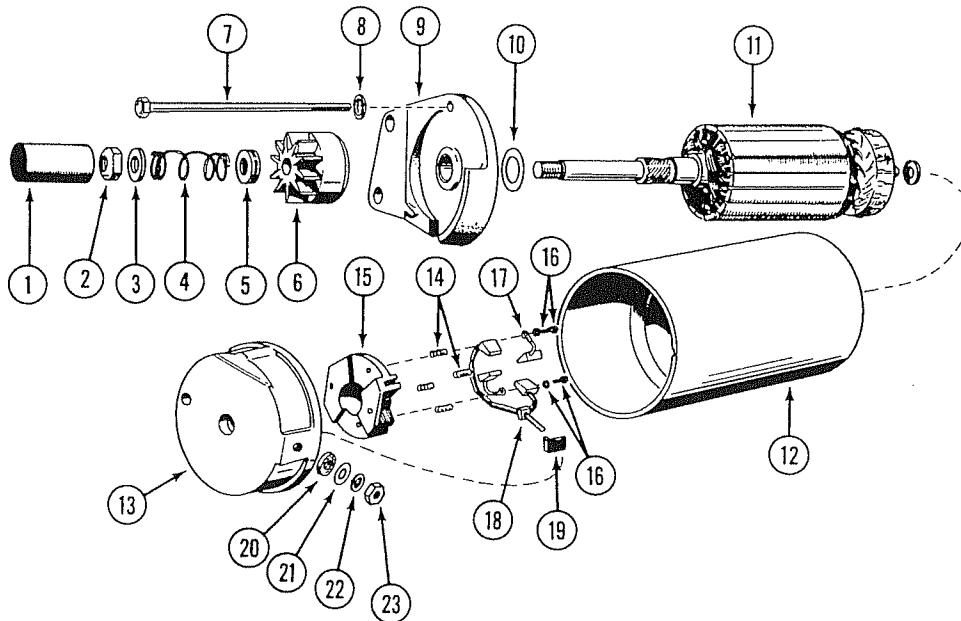
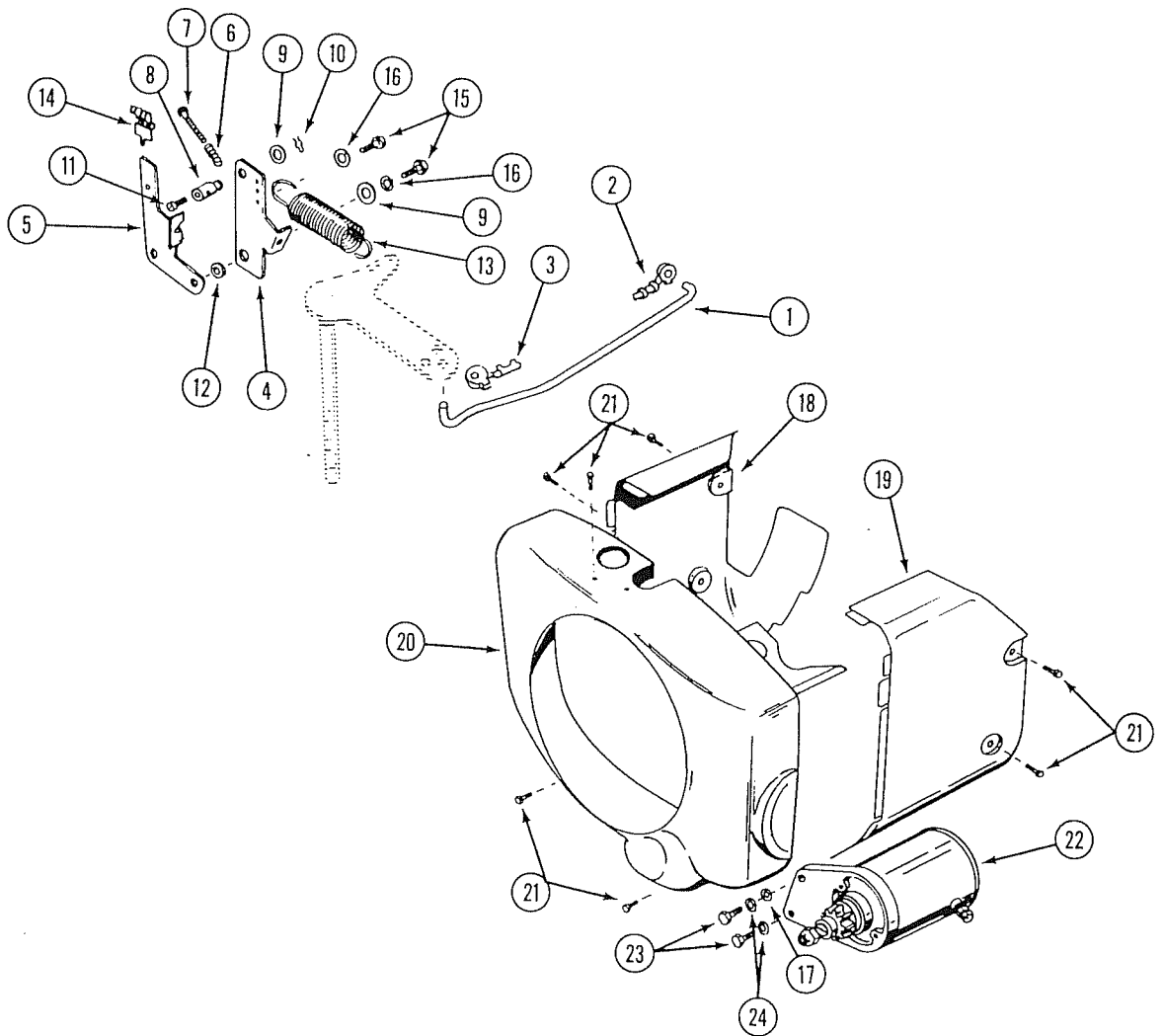
ENGINE BLOCK AND ATTACHING PARTS

REF.	PART NO.	DESCRIPTION	REQ'D
40	C 20471	TAPPET - valve (.002" oversize)	4
40	C 20277	TAPPET - valve (.005" oversize)	4
41	C 29754	VALVE - intake	2
42	C 29755	VALVE - exhaust	2
43	C 29975	INSERT - valve seat, exhaust (.002" oversize)	2
43	C 29976	INSERT - valve seat, exhaust (.005" oversize)	2
43	C 29977	INSERT - valve seat, exhaust (.010" oversize)	2
43	C 29978	INSERT - valve seat, exhaust (.025" oversize)	2
44	C 20288	INSERT - valve seat, intake (.002" oversize)	2
44	C 20289	INSERT - valve seat, intake (.005" oversize)	2
44	C 20290	INSERT - valve seat, intake (.010" oversize)	2
44	C 20291	INSERT - valve seat, intake (.025" oversize)	2
45	C 20412	TUBE - fuel pump vacuum	1
46	C 20293	SPRING - valve	4
47	C 20294	LOCK - valve and spring	8
48	C 20296	BEARING - crankshaft, front (.002" undersize)	1
48	C 20297	BEARING - crankshaft, front (.010" undersize)	1
48	C 20298	BEARING - crankshaft, front (.020" undersize)	1
48	C 20299	BEARING - crankshaft, front (.030" undersize)	1
49	13- 68	BOLT - 3/8" x 1/2" N.C. hex	2
50	C 29981	KIT - gasket, engine	1
	C 29982	KIT - gasket, carbon removal (includes: valve cover gaskets, cylinder head gaskets, and intake manifold gaskets)(BF-MS engine) . .	1
	C 20378	KIT - overhaul, engine (includes: valves, valve springs and retainers, ring set, breather tube, points, plugs, condenser, crankshaft retaining ring, air cleaner element, carburetor gasket kit and engine gasket kit)	1
	C 25226	KIT - overhaul, engine (for B43M engine) (includes: valves, valve springs and retainers, ring set, breather tube, points, plugs, condenser, crankshaft retaining ring, air cleaner element, carburetor gasket kit and engine gasket kit)	1



OIL BASE, OIL PUMP AND GEAR COVER

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 22631	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	2
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 20315	DIPSTICK - oil level indicator (for BF-MS engine)	1
12	C 24958	DIPSTICK - oil level indicator (for B43M engine)	1
13	C 29984	GASKET - oil pan	1
14	221- 14	PLUG - oil base, 1/2" sq. head	1
15	221- 844	PLUG - oil base, 1/2" socket head	1
16	C 22633	BASE - oil	1
17	C 20320	SPRING - oil by-pass.	1
18	14- 616	BOLT - oil by-pass 3/8" x 1" N.C. hex.	1
19	C 20322	VALVE - oil by-pass	1
20	C 29734	PUMP - oil	1
21	C 23321	INTAKE - oil pump (includes cup, screen and pipe)	1
22	92- 6	LOCKWASHER - 3/8".	4
23	13- 640	BOLT - 3/8" x 2-1/2" N.C. hex	4
24	92- 4	LOCKWASHER - 1/4".	2
25	13- 416	BOLT - 1/4" x 1" N.C. hex	2
26	C 20329	COVER - oil filter pad (for BF-MS engine)	1
27	C 32462	GASKET - oil filter cover (for BF-MS engine)	1
28	C 20331	WASHER - 5/16" copper.	7
29	C 20574	WASHER - 3/8" copper.	1
30	13- 512	BOLT - 5/16" x 3/4" N.C. hex	2
31	13- 528	BOLT - 5/16" x 1-3/4"	4
32	13- 536	BOLT - 5/16" x 2-1/4"	1
33	C 20325	KIT - gasket, oil pump	1
34	221- 1190	NIPPLE - oil drain	1
35	221- 1377	ELBOW - oil drain	1

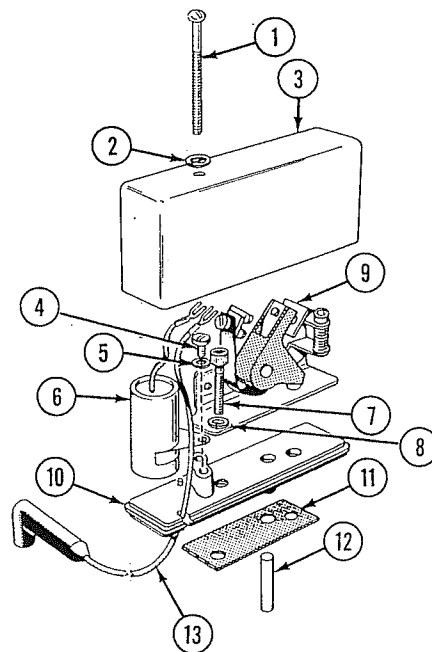
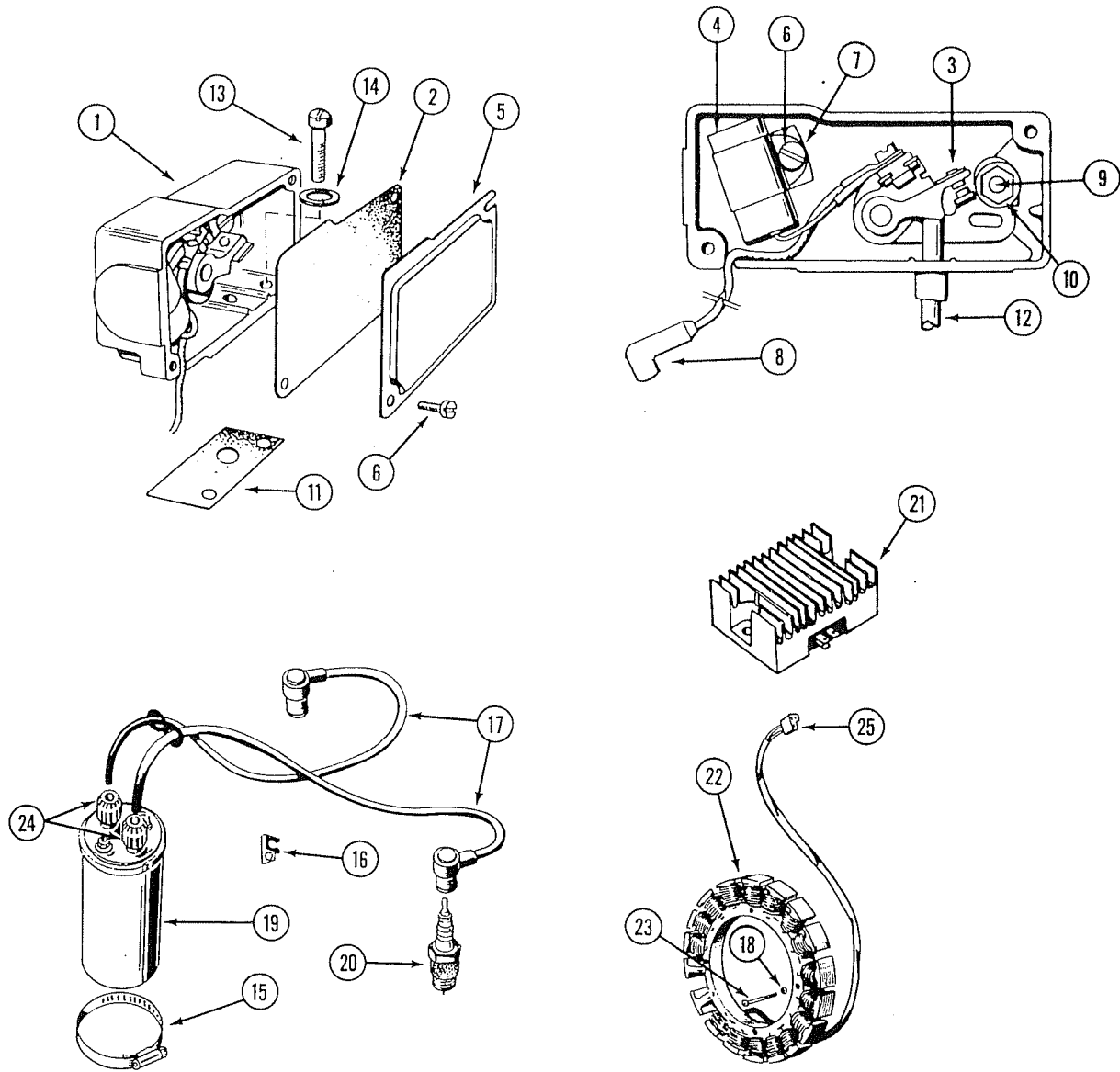


GOVERNOR AND BLOWER HOUSING

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 20359	ROD - governor control	1
2	C 20360	CLIP - governor control rod, carburetor end	1
3	C 20361	CLIP - governor control rod, governor end	1
4	C 20369	ARM - governor control	1
5	C 28719	BRACKET - governor mtg.	1
6	C 20371	SPRING - throttle lever adj.	1
7	173- 64	SCREW - #6 x 3/4" round hd. mach.	1
8	C 20372	CLAMP - swivel, throttle	1
9	195- 14	WASHER - swivel clamp mtg.	2
10	136- 2	PIN - cotter, swivel clamp mtg.	1
11	169- 74	SCREW - #8 x 5/16", swivel clamp	1
12	C 20375	BUSHING - governor control	1
13	C 20376	SPRING - governor	1
14	NSS	CLIP - throttle cable (Use C29506 and 187-1511)	1
15	121- 3	BOLT - 1/4" x 1/2" N.C. hex	2
16	192- 19	LOCKWASHER - 1/4"	2
17	195- 2027	WASHER - 5/16"	2
18	C 20362	BAFFLE - cylinder air, R.H. (for BF-MS engine)	1
18	C 24951	BAFFLE - cylinder air, R.H. (for B43M engine)	1
19	C 24952	BAFFLE - cylinder air, L.H. (for B43M engine)	1
19	C 20364	BAFFLE - cylinder air, L.H. (for BF-MS engine)	1
20	C 24953	HOUSING - blower (for B43M engine)	1
20	C 20363	HOUSING - blower (for BF-MS engine)	1
21	163- 22	BOLT - 1/4" x 7/16" N.C. hex	7
22	C 20230	MOTOR - starting, 12 volt (see below)	1
23	13- 516	BOLT - 5/16" x 1" N.C. hex, starter motor	2
24	92- 5	LOCKWASHER - 5/16"	2

C 20230 STARTER MOTOR

1	NSS	COVER - dust (Use C26508 kit)	1
2	NSS	NUT - stop (Use C26508 kit)	1
3	NSS	WASHER - stop nut (Use C26508 kit)	1
4	NSS	SPRING - anti drift (Use C26508 kit)	1
5	NSS	SPACER - dust cover (Use C26508 kit)	1
6	C 20274	DRIVE ASSEMBLY	1
7	C 20278	BOLT - thru	2
8	92- 4	LOCKWASHER - thru 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 C 20230 starter	1
13	C 20336	CAP ASSEMBLY - commutator (includes item 14 thru 23)	1
14	NSS	SPRING - brush	4
15	NSS	HOLDER - brush	1
16	NSS	SCREW AND LOCKWASHER - brush mtg.	2
17	NSS	BRUSH - ground	2
18	NSS	STUD AND BRUSH ASSEMBLY	2
19	NSS	BUSHING - insulating	1
20	NSS	WASHER - insulating	1
21	NSS	WASHER - stud mtg.	1
22	NSS	LOCKWASHER - stud mtg.	1
23	NSS	NUT stud mtg.	1
	C 20337	KIT - brush and spring (includes items 14, 17 and 18)	1

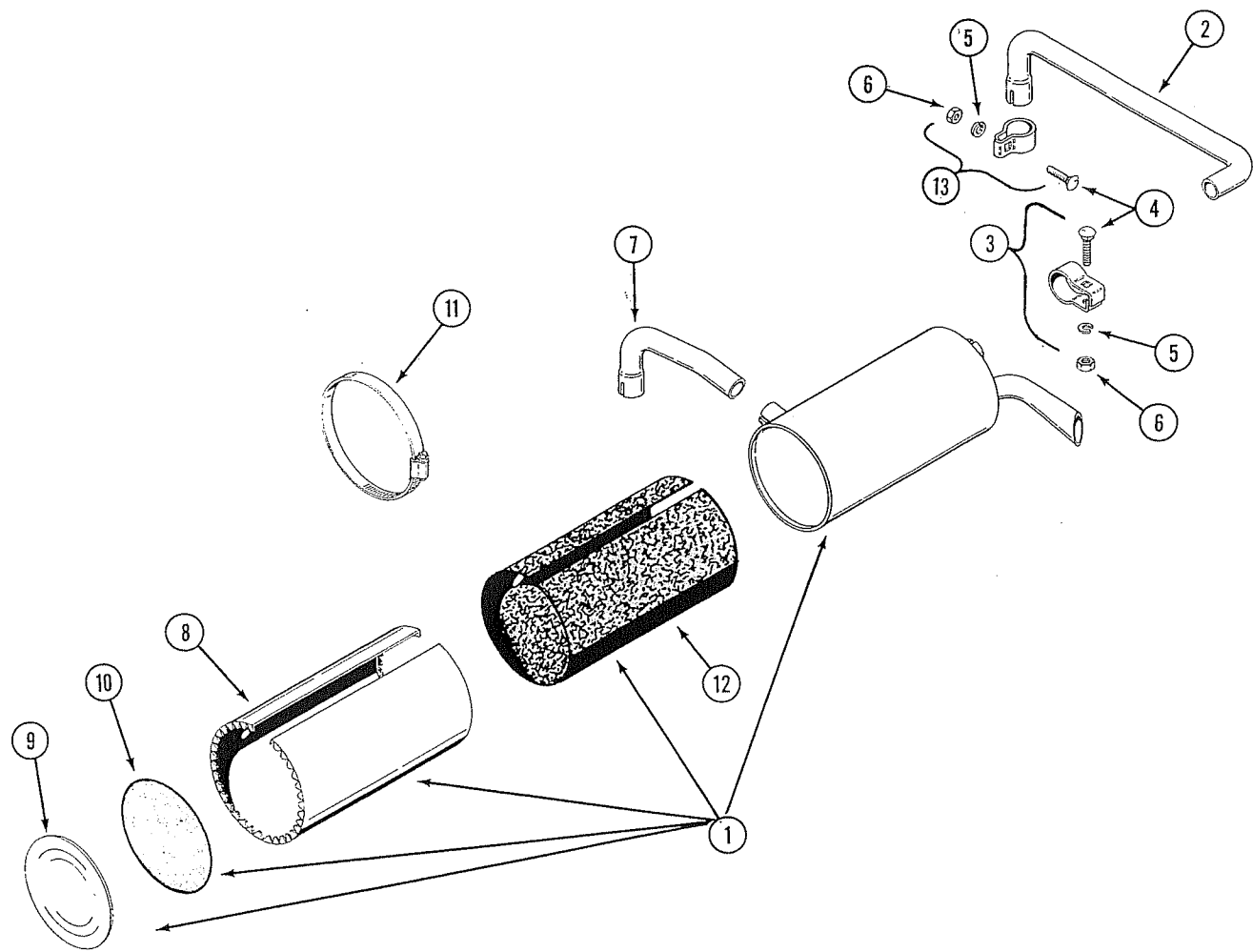
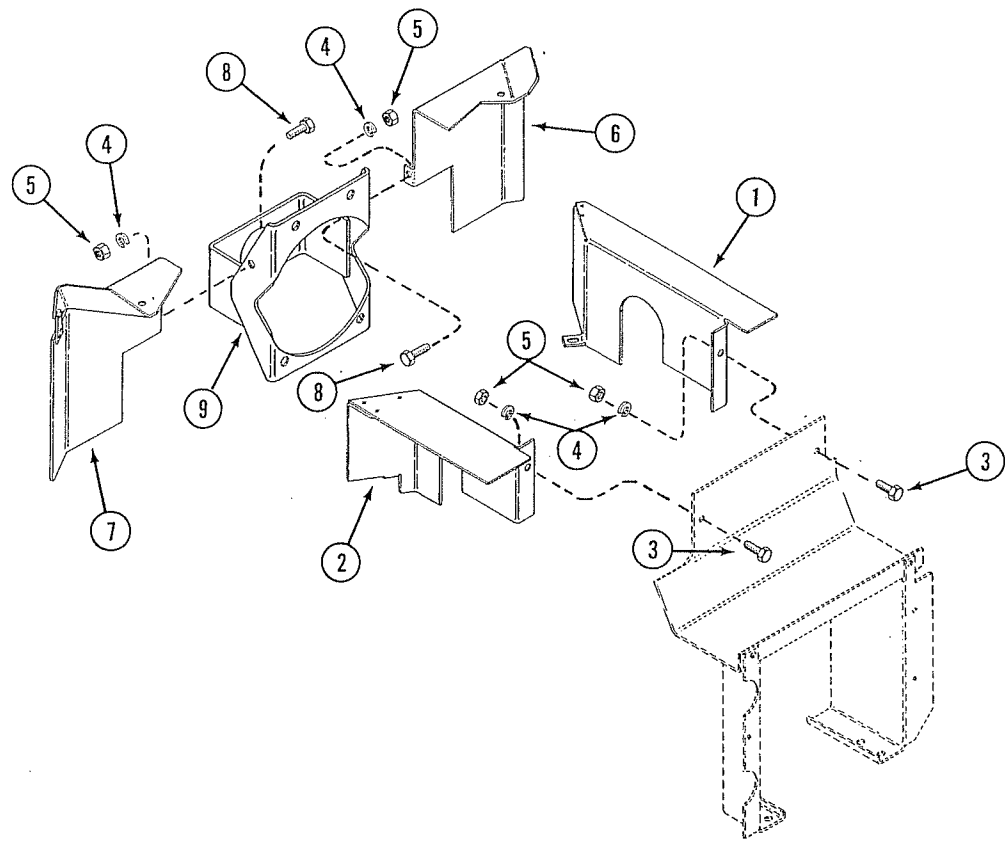


IGNITION AND CHARGING SYSTEMS

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	BOX ASSEMBLY - breaker contact (used prior to S/N 9728278) use C29990 for service	1
2	C 20339	GASKET - breaker box cover	1
3	C 20341	POINT SET - breaker contacts	1
4	C 20343	CONDENSER - breaker contacts	1
5	C 20346	COVER - breaker box	1
6	C 23322	SCREW - #8 x 5/16" pan head	3
7	192- 16	LOCKWASHER - #8, condenser mtg.	1
8	C 29992	LEAD ASSEMBLY - points to coil	1
9	C 23323	SCREW - #8 x 3/8" pan head, breaker points mtg.	1
10	129- 26	NUT - #8 N.C. hex, points mtg.	1
11	C 20345	GASKET - breaker box mtg.	1
12	C 20347	PLUNGER - breaker contact	1
13	165- 143	SCREW - 1/4" x 3/4" N.C. socket head	2
14	92- 4	LOCKWASHER - 1/4"	2
15	214- 259	CLAMP - coil mtg.	1
16	C 24957	CLIP - sparkplug cables	1
17	C 32299	KIT - spark plug cable	2
18	92- 3	LOCKWASHER - #10	3
19	C 29752	COIL - ignition	1
20	C 25845	SPARK PLUG	2
21	C 21945	REGULATOR, RECTIFIER ASSEMBLY - 12 volt.	1
22	C 24956	STATOR - alternator charging	1
23	173- 219	SCREW - #10 x 1-1/2" rd. head mach.	3
24	C 25227	CAP - coil	2
25	C 25338	CONNECTOR	1

BREAKER BOX ASSEMBLY
(USED S/N 9728278 AND AFTER)

	NSS	BOX ASSEMBLY - breaker contact (Use C29990)	1
1	182- 520	SCREW - #10 - 24 x 1-1/2" pan hd.	1
2	195- 513	WASHER - #10	1
3	C 23854	COVER - breaker box	1
4	182- 83	SCREW - #8 - 32 x 5/16" self tapping	1
5	192- 6	LOCKWASHER - #8	1
6	C 29991	CONDENSER - ignition.	1
7	165- 143	SCREW - 1/4" - 20 x 3/4"	2
8	192- 402	LOCKWASHER - 1/4"	2
9	C 29736	POINT ASSEMBLY - breaker contact	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

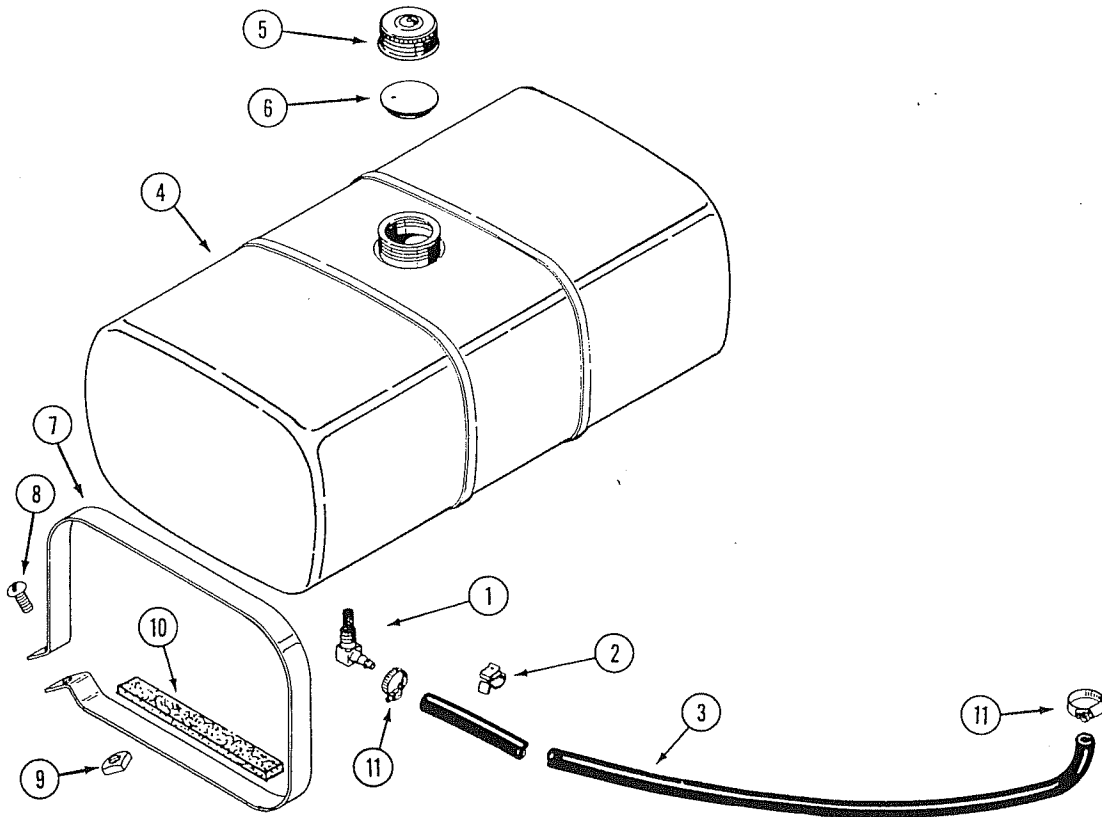
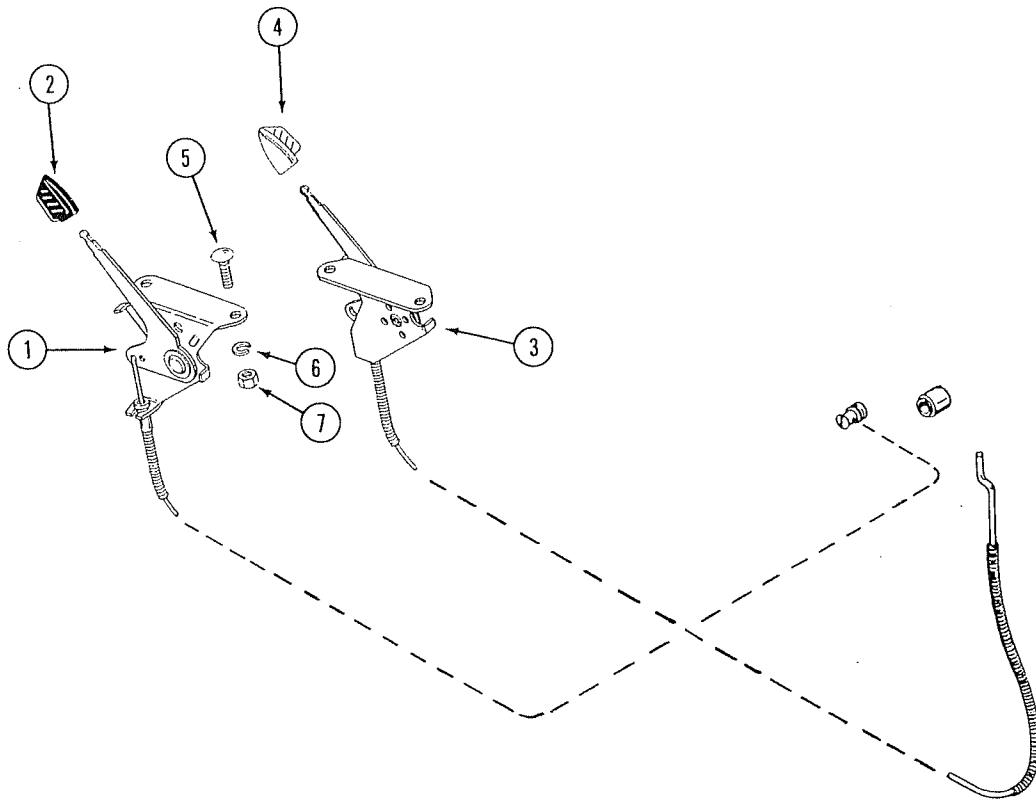


HEAT SHIELDS AND ENGINE BAFFLES

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25489	SHIELD - exhaust pipe L.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	LOCKWASHER - 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	113- 3	BOLT - 1/4" - 20 x 3/4" hex	2
9	C 23566	SUPPORT - pump mounting	1

EXHAUST SYSTEM

1	C 24703	MUFFLER ASSEMBLY - exhaust.	1
2	C 22969	PIPE - engine exhaust L.H.	1
3	C 28968	CLAMP ASSEMBLY - muffler	2
4	111- 256	BOLT - 5/16" x 1-1/4" round head, square neck N.C.	1
5	192- 20	LOCKWASHER - 5/16"	1
6	129- 102	NUT - 5/16" N.C. hex.	1
7	C 22970	PIPE - engine exhaust R.H.	1
8	C 24296	WRAPPER - muffler	1
9	C 23581	COVER - muffler end	1
10	C 23580	INSULATION - muffler end	1
11	214- 272	CLAMP - wrapper mounting	3
12	C 23686	INSULATION - muffler	1
13	C 20468	CLAMP ASSEMBLY - muffler (includes items 4, 5 and 6)	2

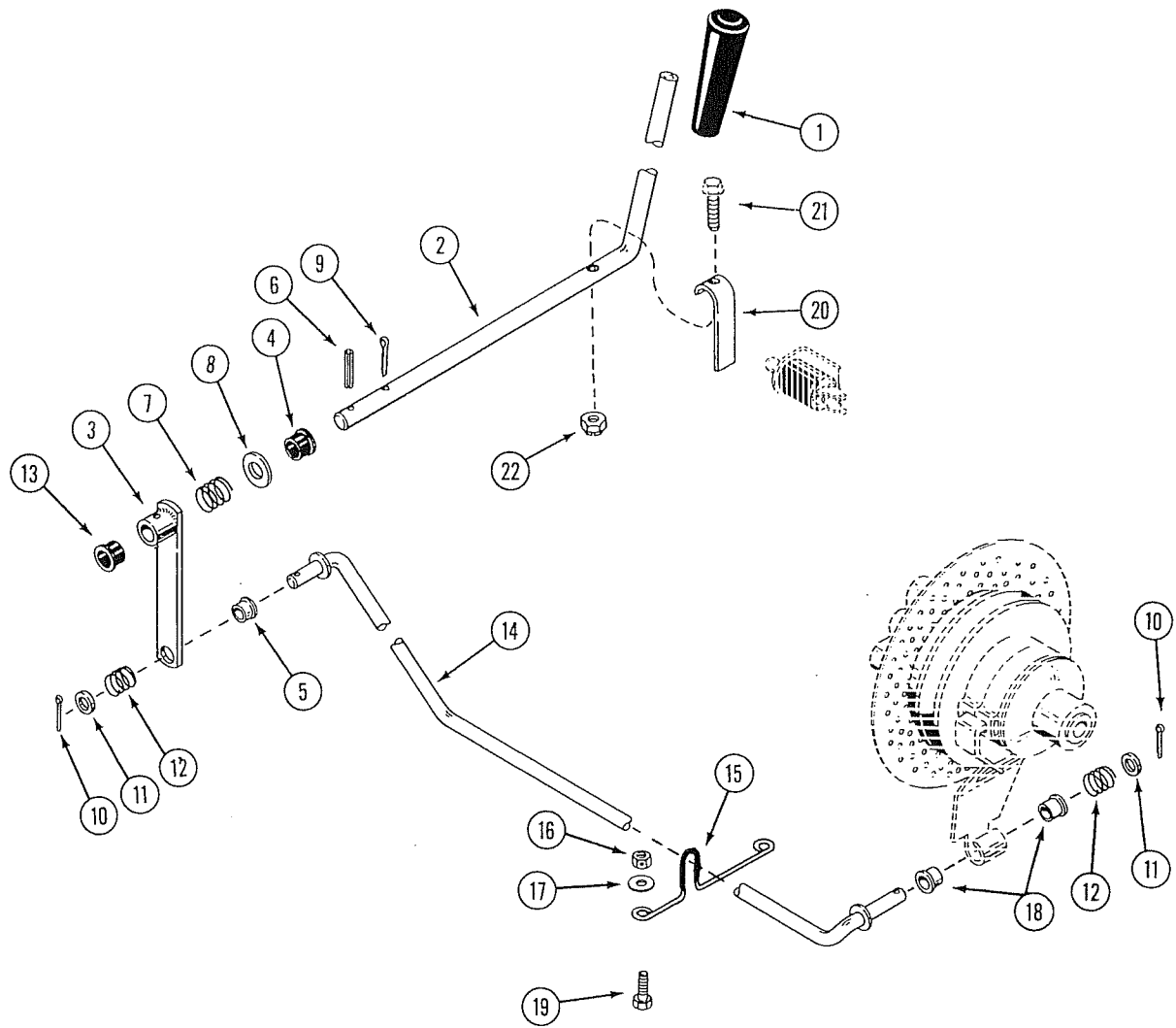


CHOKE AND THROTTLE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 33411	CONTROL - throttle.	1
2	NSS	HANDLE - throttle control, black (Use C35291).	1
3	C 25604	CONTROL - choke.	1
4	NSS	HANDLE - choke control, white (Use C35291)	1
5	111- 5	BOLT - #10 - 24 x 5/8" N.C. round head, square neck	2
6	192- 18	LOCKWASHER - #10 Std. plated.	2
7	129- 17	NUT - #10-24 plated	2

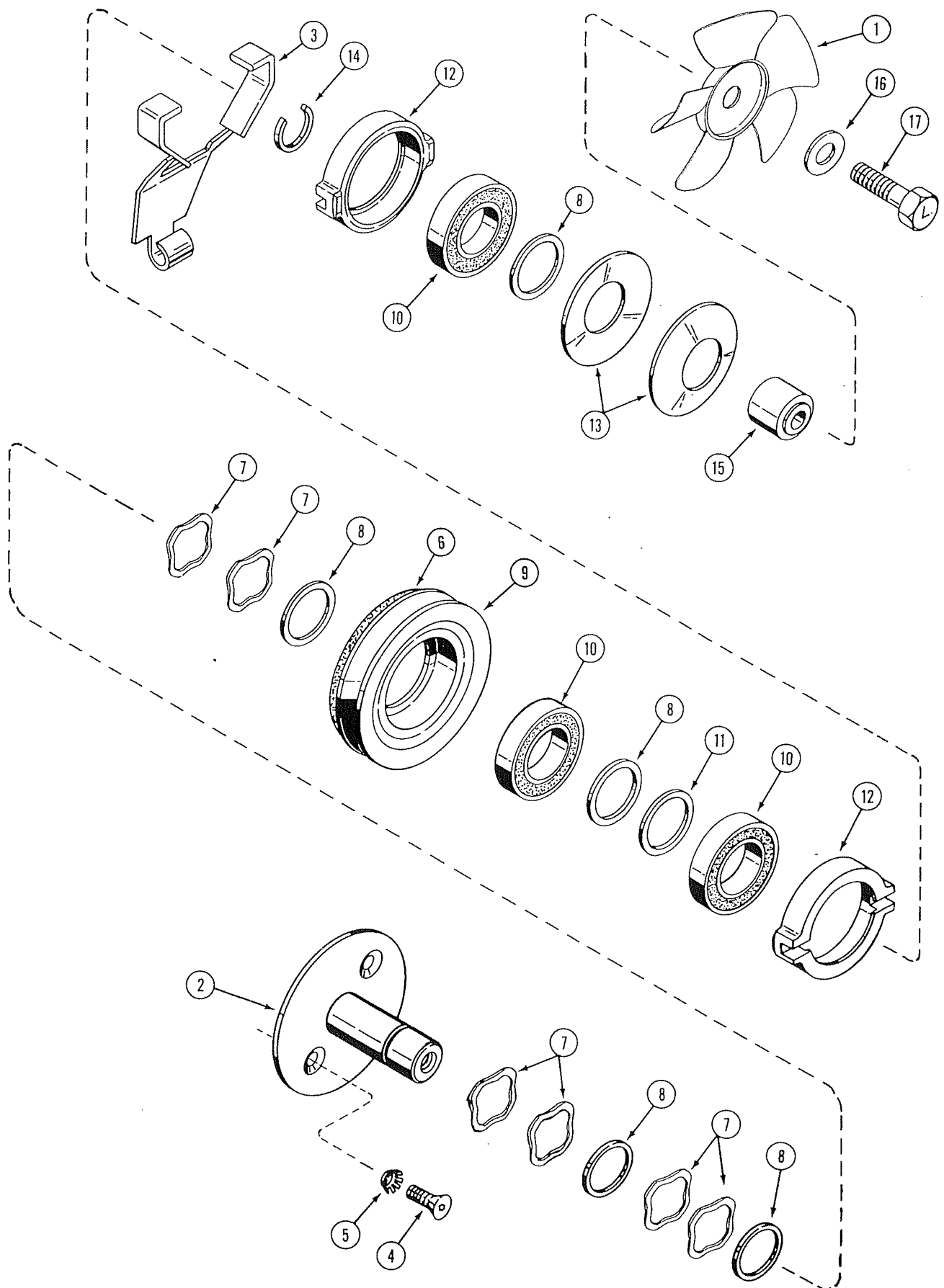
FUEL SYSTEM

1	NSS	ELBOW ASSEMBLY - fuel tank (Use C10678, C31978, 214-274)	1
2	C 28962	CLIP - fuel line	2
3	C 28937	HOSE - fuel line 43"	1
4	C 16363	TANK - fuel	1
5	C 11529	CAP - fuel tank (includes insert)	1
6	NSS	INSERT - fuel cap (Use C11529)	1
7	C 16796	STRAP - fuel tank mounting	2
8	173- 215	SCREW - 1/4" x 1/2" N.C. round head, machine, zinc plated	2
9	129- 504	NUT - square 1/4" N.C.	2
10	C 14690	CUSHION - fuel tank	2
11	214- 103	CLAMP - hose 1/2"	2



PTO CLUTCH LINKAGE

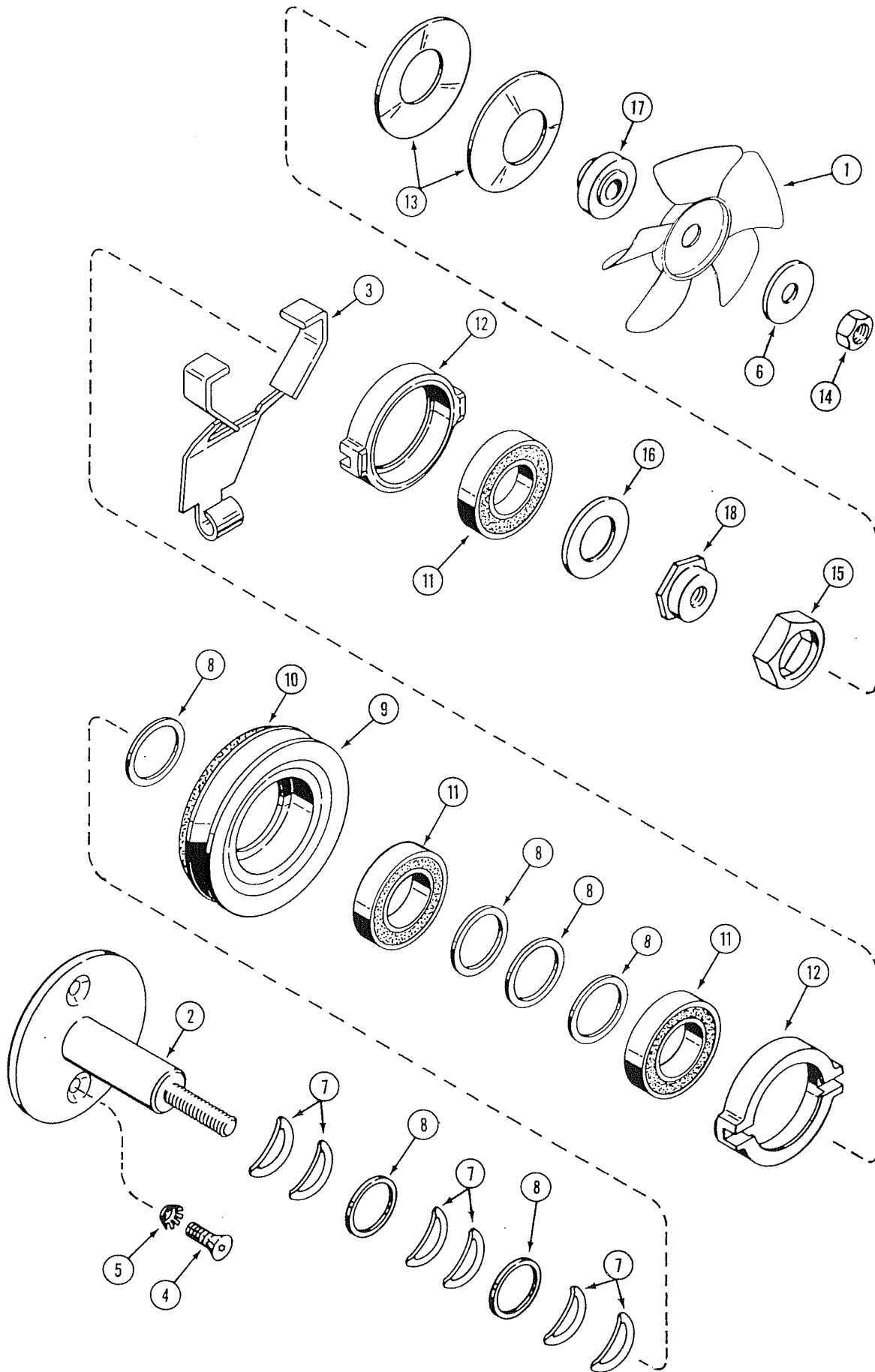
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 28237	KNOB - lever, PTO	1
2	C 22998	LEVER - PTO engaging	1
3	C 22921	ARM ASSEMBLY - PTO	1
4	353- 462	BUSHING - lever, dash tower	1
5	C 20093	BUSHING - fliplock	1
6	138- 96	PIN - roll 3/16" x 1"	1
7	C 20036	SPRING - lever, PTO	1
8	C 28240	WASHER - nylon	1
9	132- 91	PIN - cotter 3/16" x 1"	1
10	132- 310	PIN - cotter 1/8" x 1"	2
11	C 14906	WASHER - nylon 3/8"	2
12	C 19867	SPRING - clutch rod	2
13	353- 442	BUSHING - heyco	1
14	NSS	ROD - clutch (Use C27734, C26166, C20053)	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 20053	BUSHING - nylon	2
19	113- 207	BOLT - 3/8" x 1" N.C. hex	2
20	C 23004	ACTUATOR - PTO switch	1
21	163- 24	BOLT - #10 - 24 x 1-1/4" hex washer head	1
22	131- 67	NUT - #10 - 24 lock	1



C19804 CLUTCH ASSEMBLY (PTO)

(See page 27B for service clutch)

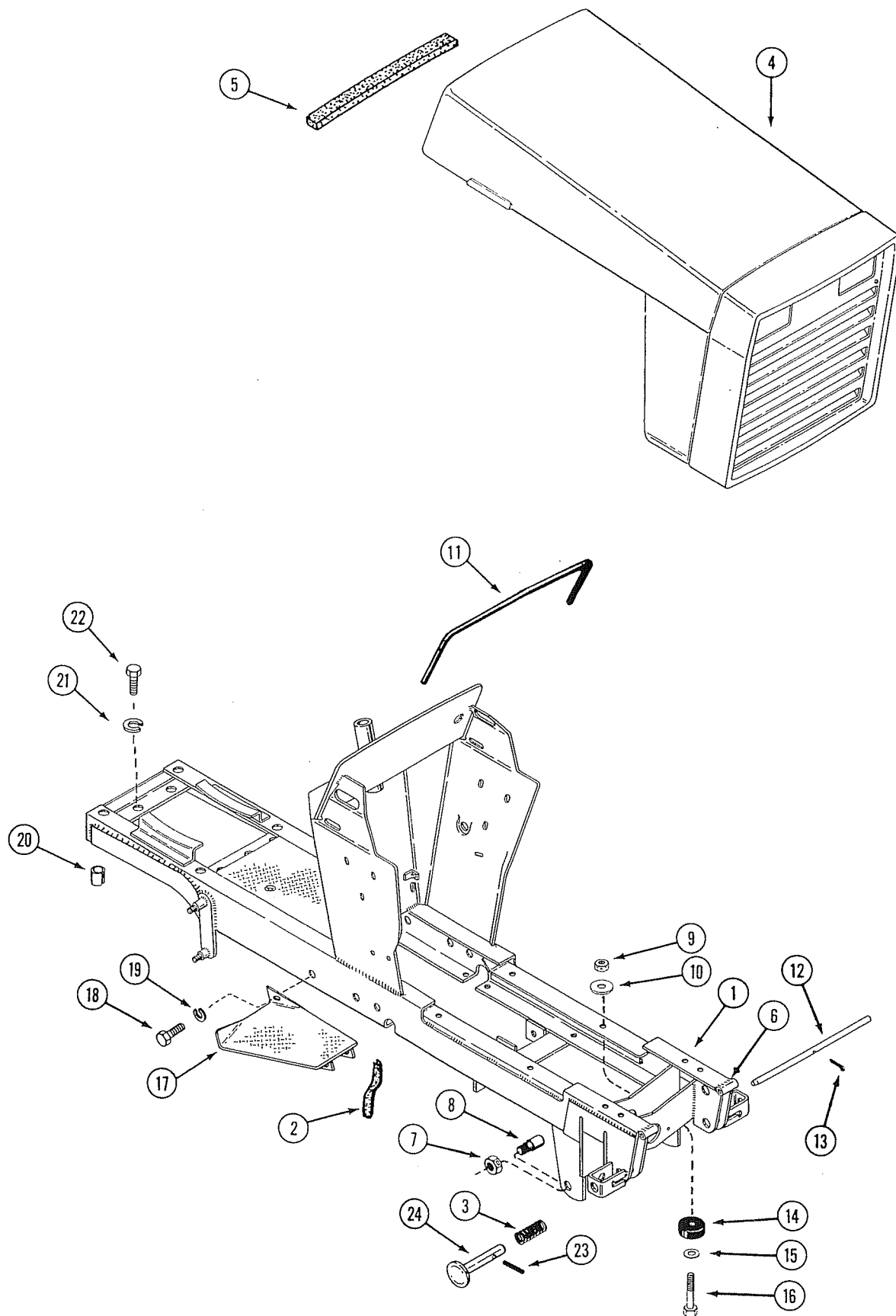
REF.	PART NO.	DESCRIPTION	REQ'D
	NSS	CLUTCH AND FAN ASSEMBLY (Use C27152)	1
1	C 16616	FAN - cooling	1
2	C 18901	HUB - clutch	1
3	C 27031	ARM - engaging	1
4	164- 41	BOLT - 5/16" x 3/4" N.C. flat head socket	2
5	193- 76	LOCKWASHER - 5/16" countersunk external tooth	2
6	C 23740	KIT - disc, friction	1
7	C 15515	WASHER - spring	4
8	C 15557	WASHER - spacer .050"	UAR
9	C 31045	PULLEY ASSEMBLY - clutch (includes disc)	1
10	C 29735	BEARING - cam and pulley	3
11	C 15556	WASHER - spacer .010"	UAR
11	C 21596	WASHER - spacer .005"	UAR
12	C 32169	CAM - clutch	2
13	C 16786	SPRING - clutch load	2
14	C 18941	RING - retaining	1
15	C 18908	SPACER - hub	1
16	C 28677	WASHER - fan 17/32"	1
17	C 18940	BOLT - 1/2" x 1-3/4" N.C. hex, L.H. threads	1



C24783 CLUTCH ASSEMBLY (PTO)

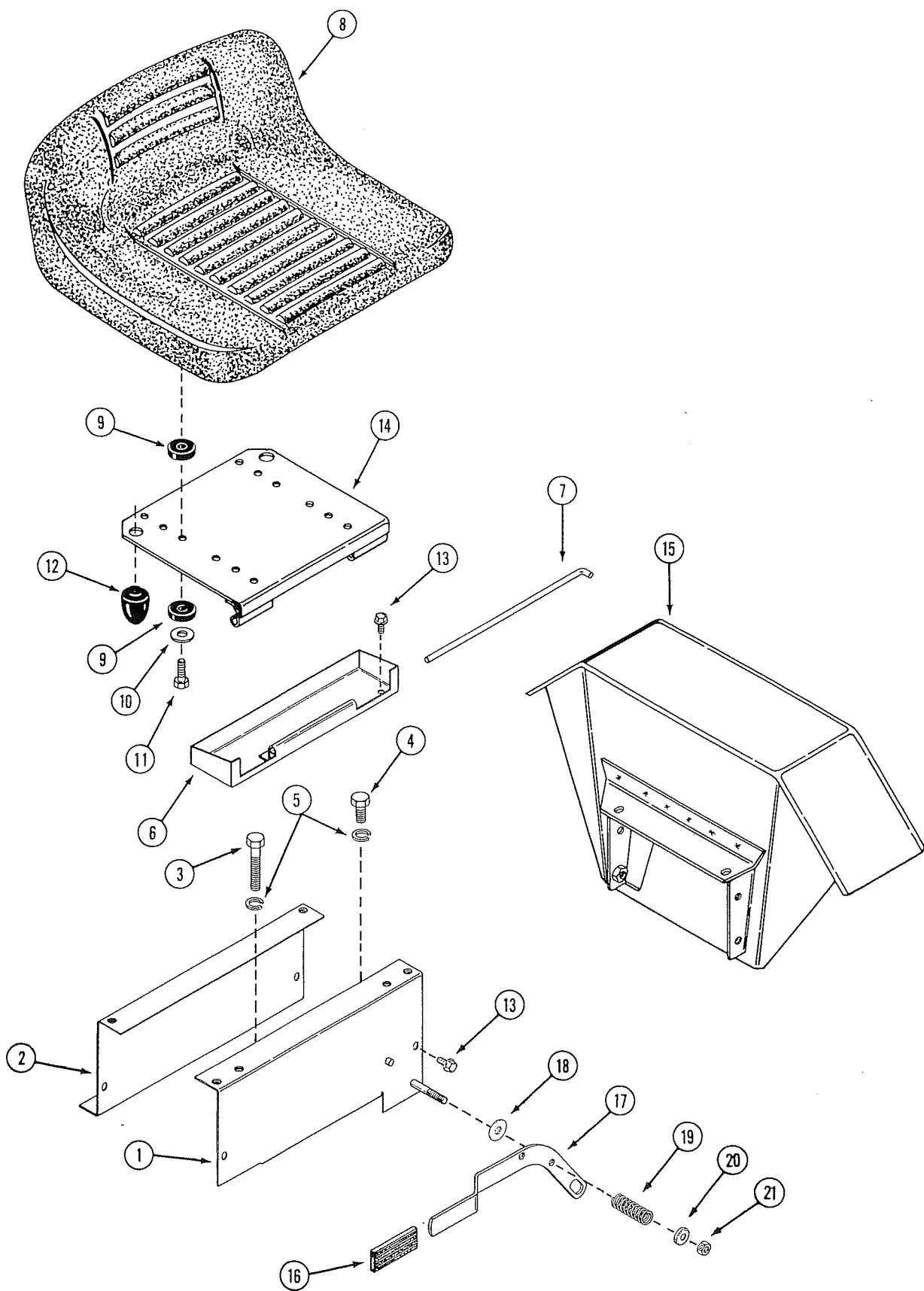
(For Service)

REF.	PART NO.	DESCRIPTION	REQ'D
	C 24783	CLUTCH AND FAN ASSEMBLY (Use C27152)	1
1	C 16616	FAN - cooling	1
2	C 24741	HUB - clutch	1
3	C 27031	ARM - engaging	1
4	164- 41	SCREW - 5/16" - 18 x 1" flat head socket	2
5	193- 76	LOCKWASHER - 5/16" countersunk external tooth	2
6	C 28677	WASHER - fan 17/32"	1
7	C 15515	WASHER - spring	6
8	C 15557	WASHER - spacer .050	6
9	C 31045	PULLEY AND DISC ASSEMBLY	1
10	C 23740	KIT - friction disc	1
11	C 29735	BEARING - ball	3
12	C 32169	CAM - clutch	2
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



HOOD, FRAME AND GRILLE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24968	FRAME - main	1
2	C 21515	LINER - dash tower notch	1
3	C 24137	SPRING - latch	2
4	C 23573	HOOD AND GRILLE ASSEMBLY	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	CHANNEL - instrument panel liner	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)	8
16	113- 219	BOLT - 3/8" x 2-1/4" N.C. hex	4
17	C 18890	PAD - foot L.H.	1
17	C 18150	PAD - foot R.H.	1
18	13- 514	BOLT - 5/16" x 7/8" N.C. hex	2
19	192- 20	LOCKWASHER - 5/16".	2
20	C 14729	SPACER - rear, frame	2
21	192- 23	LOCKWASHER - 1/2"	4
22	113- 424	BOLT - 1/2" N.C. hex, transaxle mtg.	4
23	138- 319	PIN - roll 3/16" x 1-1/4"	2
24	C 16373	PIN - latch	2

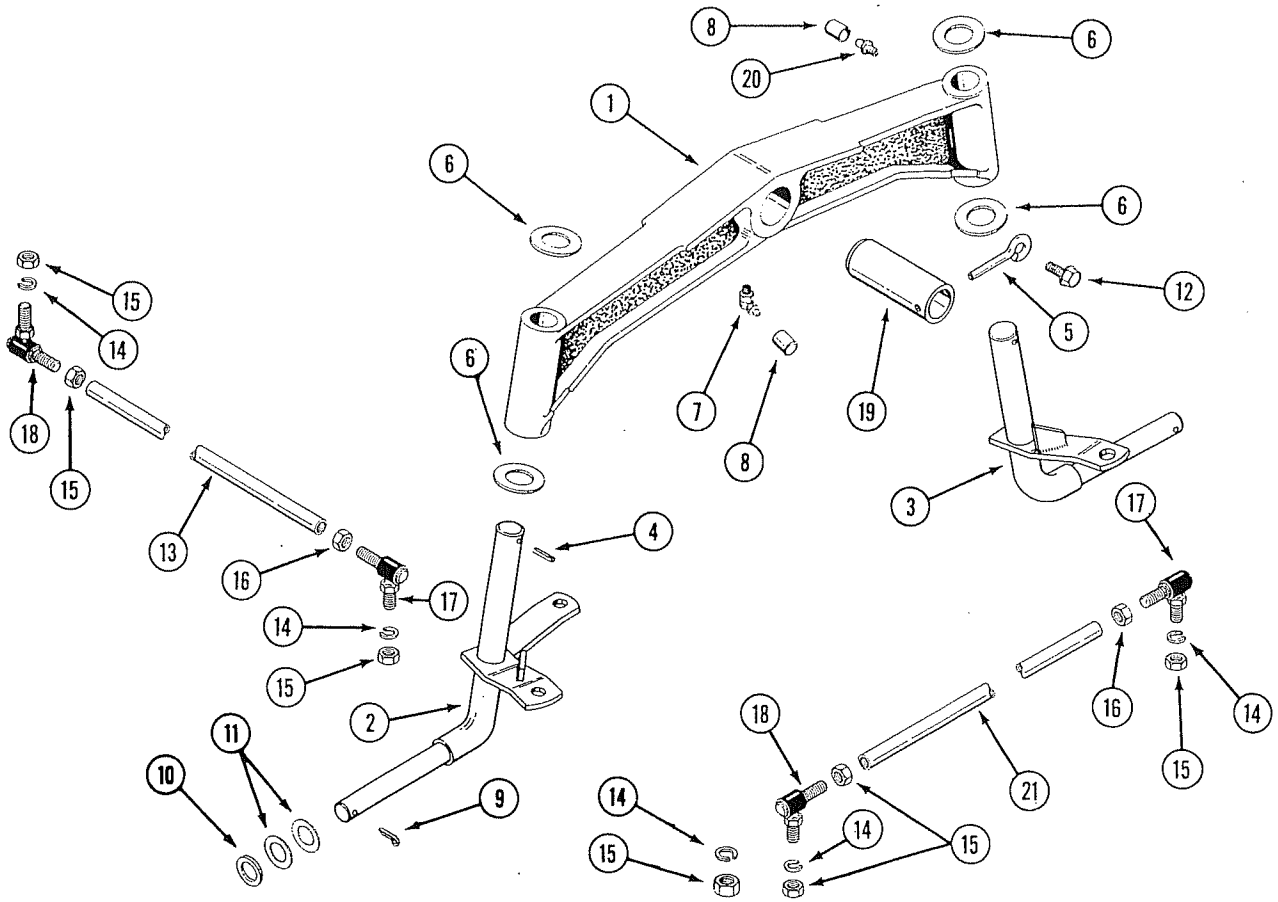


SEAT, FENDERS AND TOOL TRAY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 16408	SUPPORT - seat, front	1
2	C 16404	SUPPORT - seat, rear	1
3	113- 441	BOLT - 1/2" x 2-1/4" N.C. hex	2
4	113- 424	BOLT - 1/2" x 1" N.C. hex	2
5	192- 23	LOCKWASHER - 1/2"	4
6	NSS*	TRAY - tool	1
7	C 16429	PIN - seat hinge	1
8	NSS	SEAT - (Use C30071)	1
9	C 15410	CUSHION - rubber	8
10	195- 2021	WASHER - 5/16" x 1-1/4" OD, zinc plated	4
11	113- 122	BOLT - 5/16" x 1-1/2"	4
12	NSS**	BUMPER - seat	2
13	121- 106	BOLT - 5/16" x 1/2" flange whizlock	10
14	C 17152	HINGE ASSEMBLY - seat	1
15	C 16444	FENDER - L.H.	1
15	C 16445	FENDER - R.H.	1
16	C 14728	GRIP - shift lever	1
17	C 16393	LEVER - shift	1
18	195- 524	WASHER - 7/16" x 1-1/4" O.D.	1
19	C 17216	SPRING - shift lever	1
20	C 17066	WASHER - cupped	1
21	131- 178	NUT - lock 3/8" N.C. hex	1

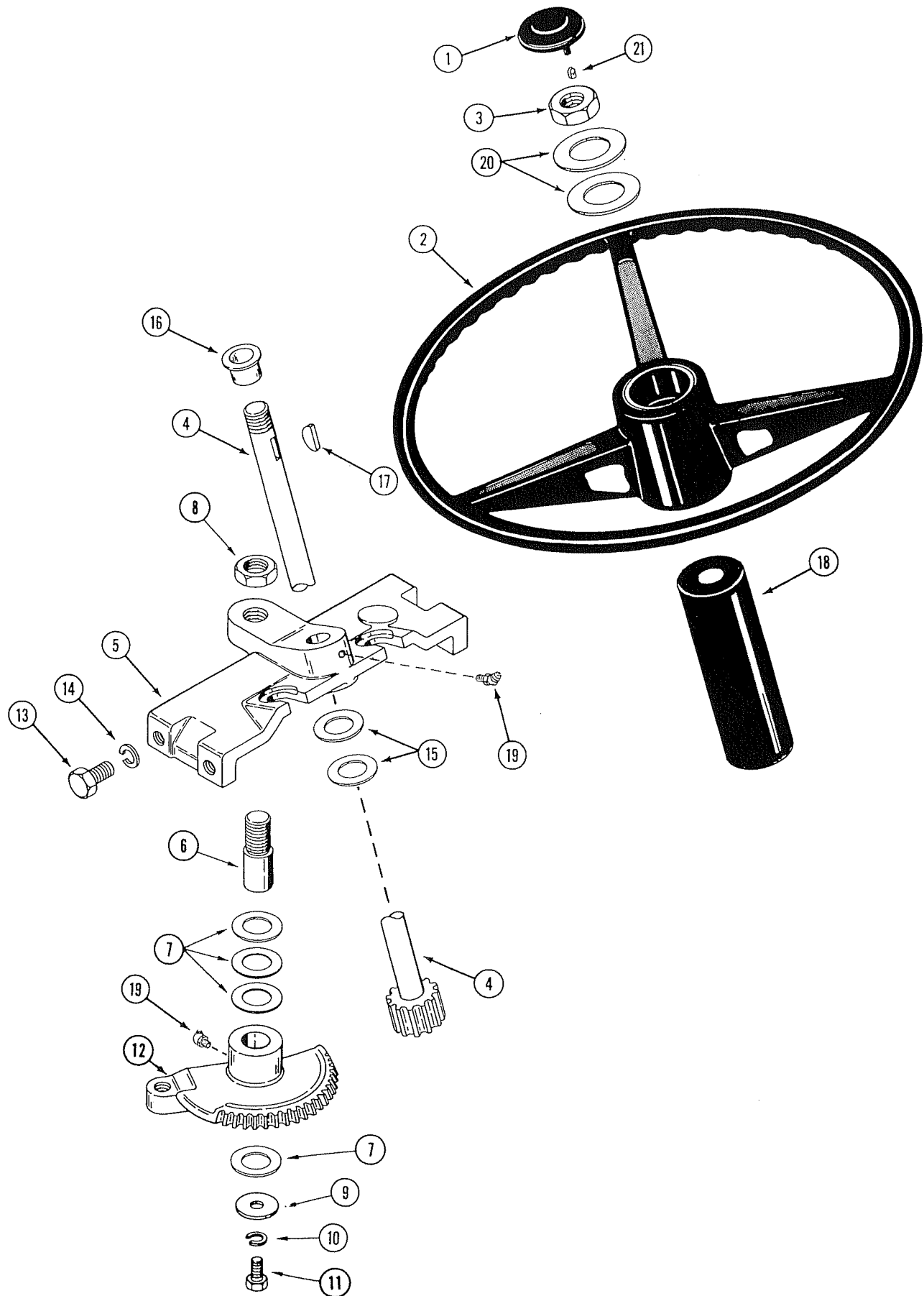
* Use C31004, C33474, and 2 each of C29306, C29305, 113-102, 131-911

** Use 2 each of C29306, C29305, 113-103, C28263, 131-911



FRONT AXLE

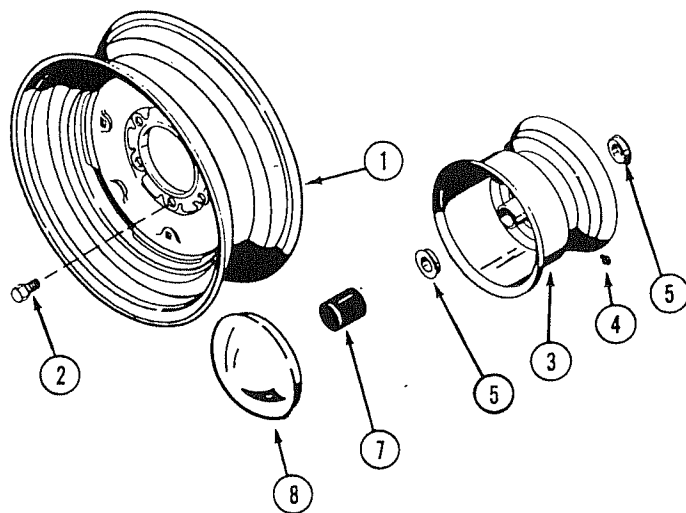
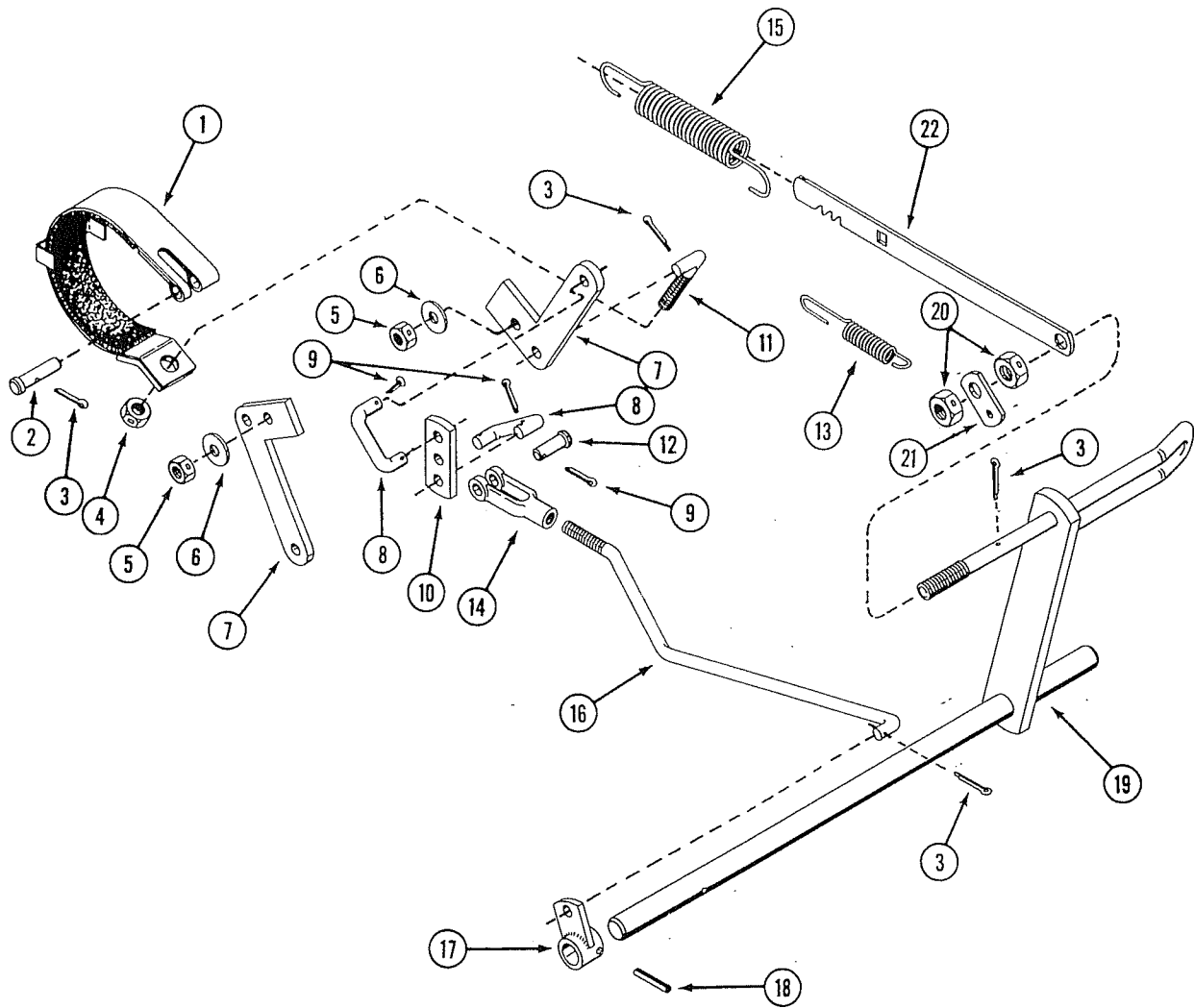
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 40687	AXLE - front	1
2	NSS	SPINDLE - right hand (Use C31341, 132-311, C27902)	1
3	NSS	SPINDLE - left hand (Use C31340, 132-311, C27902)	1
4	138- 99	PIN - roll	2
5	C 22278	PIN - retaining, axle pivot	1
6	C 13716	WASHER - thrust	4
7	219- 404	FITTING - lube	3
8	C 13106	COVER - lube fitting	3
9	132- 311	PIN - cotter 5/32" x 1-1/4"	2
10	C 12975	WASHER - wheel spindle	2
11	C 28226	WASHER - wheel spacer	4
12	187- 1910	BOLT - 3/8" N.C. indented hex head	1
13	NSS	KIT - drag link (Use C44806, C44641, C44640, 129-365, 129-165)	1
14	192- 23	LOCKWASHER - 1/2" zinc plated	3
15	129- 165	NUT - 1/2" jam N.F. R.H. thread	6
16	129- 365	NUT - 1/2" jam N.F. L.H. thread	2
17	C 21527	BALL JOINT - 1/2" L.H.	2
18	C 21526	BALL JOINT - 1/2" R.H.	2
19	C 22568	PIN - axle pivot	1
20	219- 17	FITTING - lube	2
21	C 21529	TIE ROD	1



STEERING GEAR

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 16945	CAP - steering wheel	1
2	C 18014	WHEEL - steering	1
3	131- 356	NUT - lock 5/8"	1
4	NSS	SHAFT - steering (Use C26325, C26326, 138-143)	1
5	NSS*	SUPPORT - steering gear	1
6	C 14200	PIN - pivot	1
7	C 14201	WASHER - shim	4
8	131- 1112	NUT - jam 3/4"	1
9	195- 2021	WASHER	1
10	192- 20	LOCKWASHER - 5/16" zinc plated	1
11	113- 102	BOLT - 5/16" x 3/4" N.C. hex	1
12	C 33309	GEAR - steering	1
13	113- 206	BOLT - 3/8" x 3/4" N.C. hex	4
14	192- 21	LOCKWASHER - 3/8"	4
15	195- 2069	WASHER - 5/8" zinc plated	2
16	C 15096	BUSHING - flanged nylon	1
17	126- 16	KEY - Woodruff 3/16" x 3/4"	1
18	C 24098	TUBE - steering	1
19	219- 404	FITTING - lube 45°	2
20	C 12975	WASHER - 5/8"	2
21	C 18017	CLIP - tinnerman, steering wheel	2
	C 13106	COVER - lube fitting	2

* Use C44378, C29044 and 2 each of C29812, 113-248,
129-103, 192-21, 195-2029

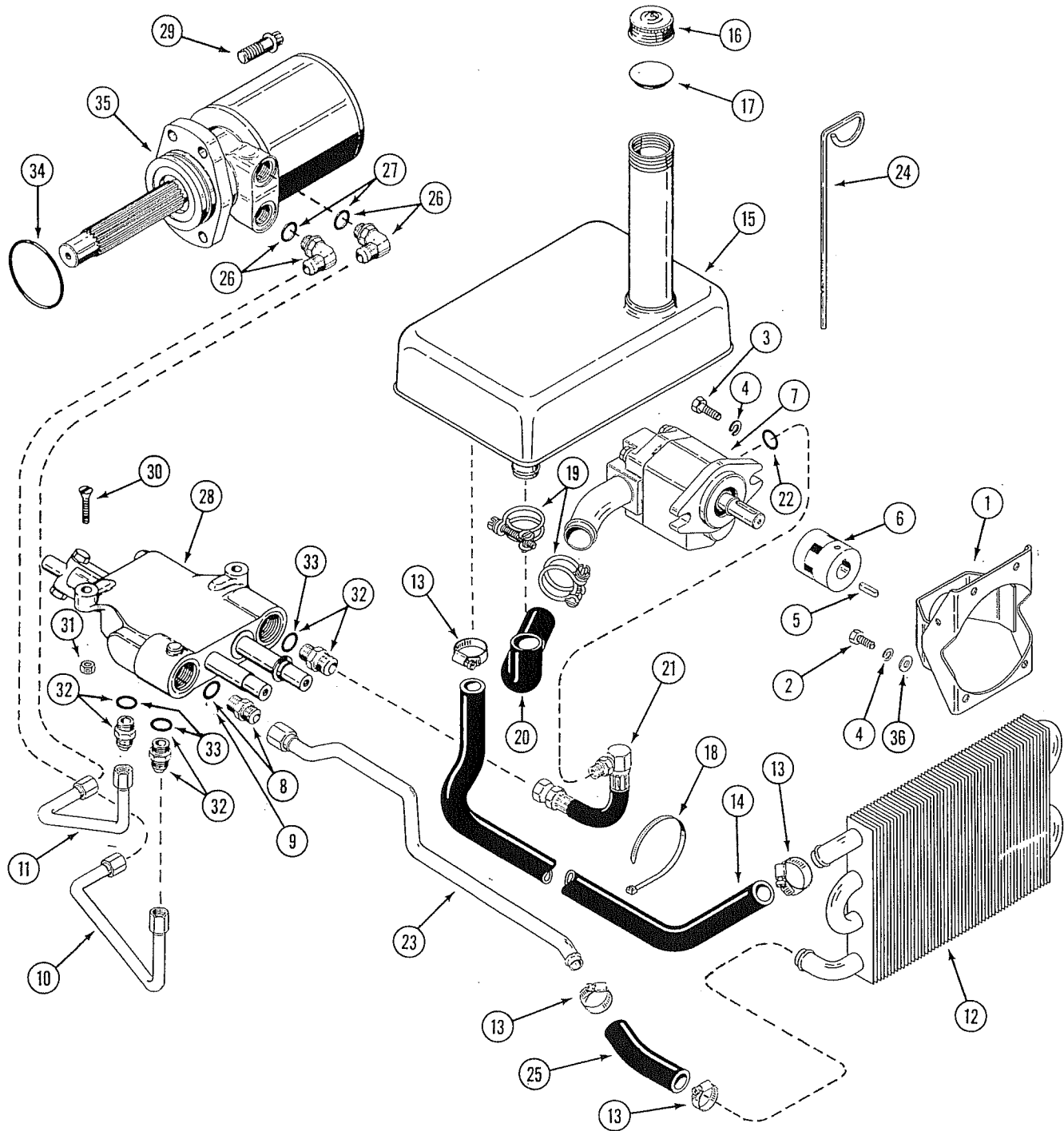


BRAKE ASSEMBLY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 19250	BAND - brake	1
2	C 13526	PIN - clevis	1
3	132- 310	PIN - cotter 1/8" x 1"	3
4	131- 1129	NUT - lock 7/16" hex N.C.	1
5	131- 1181	NUT - lock 3/8" hex N.C.	2
6	195- 104	WASHER - 3/8" flat	2
7	C 19063	ARM - brake	2
8	C 19064	LINK - brake	2
9	132- 321	PIN - cotter 3/32" x 1"	6
10	C 19179	LINK - brake	1
11	C 19251	LINK - brake band	1
12	141- 4	PIN - clevis	1
13	C 25022	SPRING - return	1
14	213- 41	CLEVIS	1
15	C 27755	SPRING - brake lock	1
16	C 24096	ROD - brake	1
17	C 26381	ARM - brake rod	1
18	138- 319	PIN - roll 3/16" x 1-1/4"	1
19	C 22316	PEDAL - brake assembly	1
20	131- 164	NUT - centerlock jam	2
21	C 16164	TAB - lift control	1
22	C 18147	LEVER - brake lock	1

FRONT AND REAR WHEELS

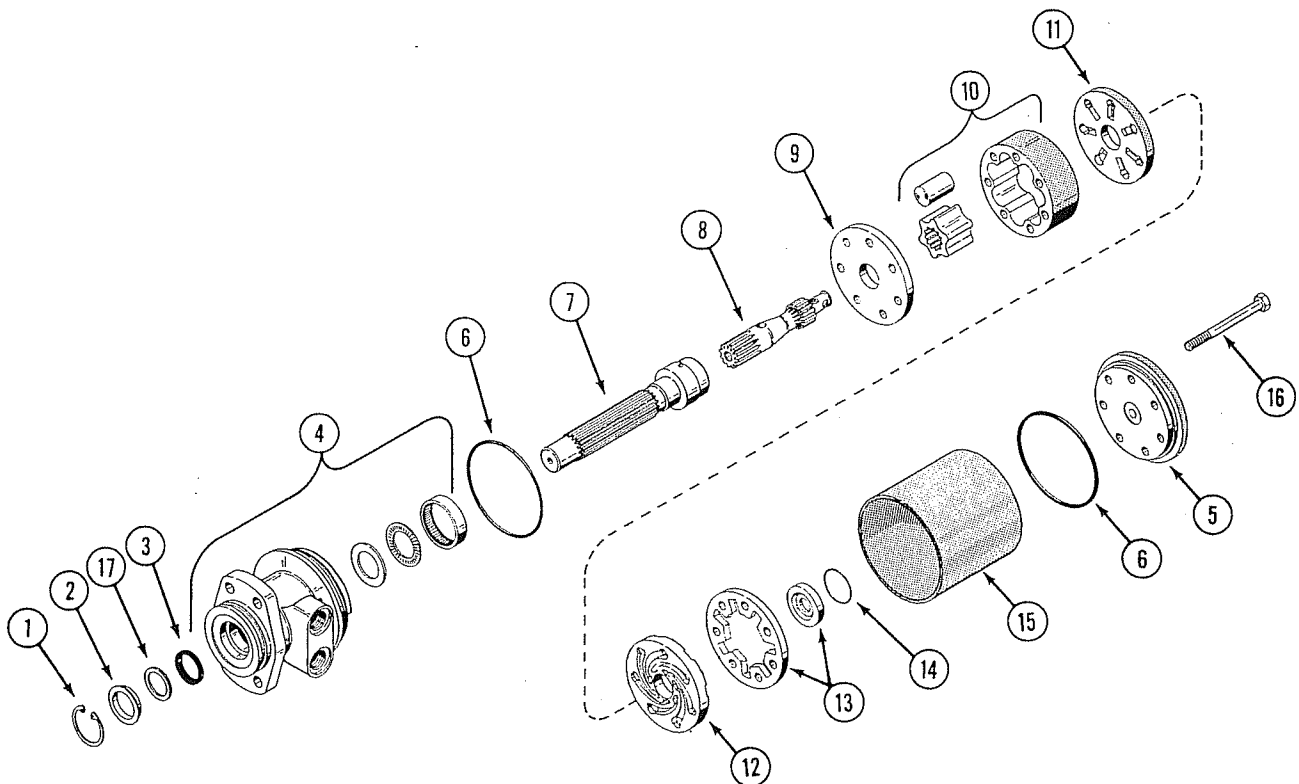
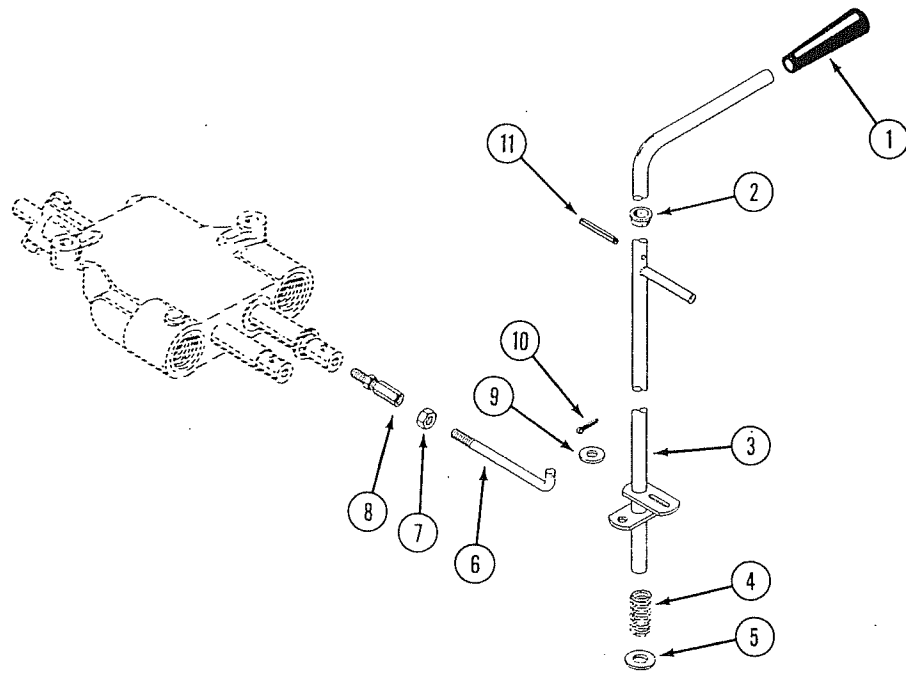
1	C 30917	WHEEL - rear, 6 bolt	2
2	C 27763	BOLT - rear wheel	12
3	C 30912	WHEEL - front	2
4	219- 403	FITTING - lube	2
5	C 44499	BEARING - wheel, inner	2
7	C 44478	CAP - plastic, front	2
8	C 28965	CAP - hub, front wheel (optional)	2
	C 13106	COVER - lube fitting	2



HYDRAULIC SYSTEM

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	113- 207	BOLT - 3/8" x 1" N.C. hex, pump mounting	2
4	192- 21	LOCKWASHER - 3/8" zinc plated.	6
5	C 28980	KEY - square 1/4" x 1" (engine shaft)	1
6	C 25209	COUPLING - pump, 9/16" shaft (See page 43)	1
7	NSS	PUMP - hyd. 9/16" shaft (repairs page 43) (order C25053)	1
8	218- 5065	FITTINGS - hyd. 3/4" x 7/8" "O" Ring.	1
9	218- 5007	"O" RING - 5/8" (for C17236 fitting)	1
10	C 16687	TUBE - valve to lower motor port	1
11	C 17898	TUBE - valve to upper motor port	1
12	C 25784	EXCHANGER - heat.	1
13	214- 9	CLAMP - hose	4
14	C 29697	HOSE - rubber, tank to heat exchanger.	1
15	C 22808	RESERVOIR - hydraulic oil.	1
16	C 11529	CAP - reservoir (includes insert)	1
17	NSS	INSERT - reservoir cap (Use C11529)	1
18	C 22947	TIE - hose clamp	2
19	C 23326	CLAMP - hose	2
20	C 24903	HOSE - rubber, tank to pump.	1
21	C 18797	HOSE - hydraulic, pump to valve.	1
22	218- 5006	"O" RING - 1/2" (for C18797).	1
23	NSS	TUBE - valve to heat exchanger (Use C26182, C29697)	1
24	C 23189	DIPSTICK - oil, hydraulic reservoir	1
25	NSS	HOSE - rubber, 4" (Use C29697)	1
26	218- 5107	FITTING - motor port, 90° elbow, "O" Ring	2
27	218- 5007	"O" RING - 5/8" (for 218-5107 fitting)	2
28	NSS*	VALVE - hydraulic control, two spool (repairs page 45)	1
29	166- 86	SCREW - 1/2" x 1-1/4" N.C. flanged 12 pt.	4
30	171- 247	SCREW - 5/16" x 1-1/4" N.C. flat hd. machine	2
31	131- 176	NUT - lock 5/16" N.C. hex	2
32	218- 5062	FITTING - hydraulic valve 5/8" x 7/8" "O" Ring.	3
33	218- 5007	"O" RING - 5/8" (for C18321).	3
34	C 28949	SEAL - motor to transmission.	1
35	C 33234	MOTOR - hydraulic (repairs page 41)	1
36	195- 104	WASHER - 3/8"	4

* Use C45048 kit



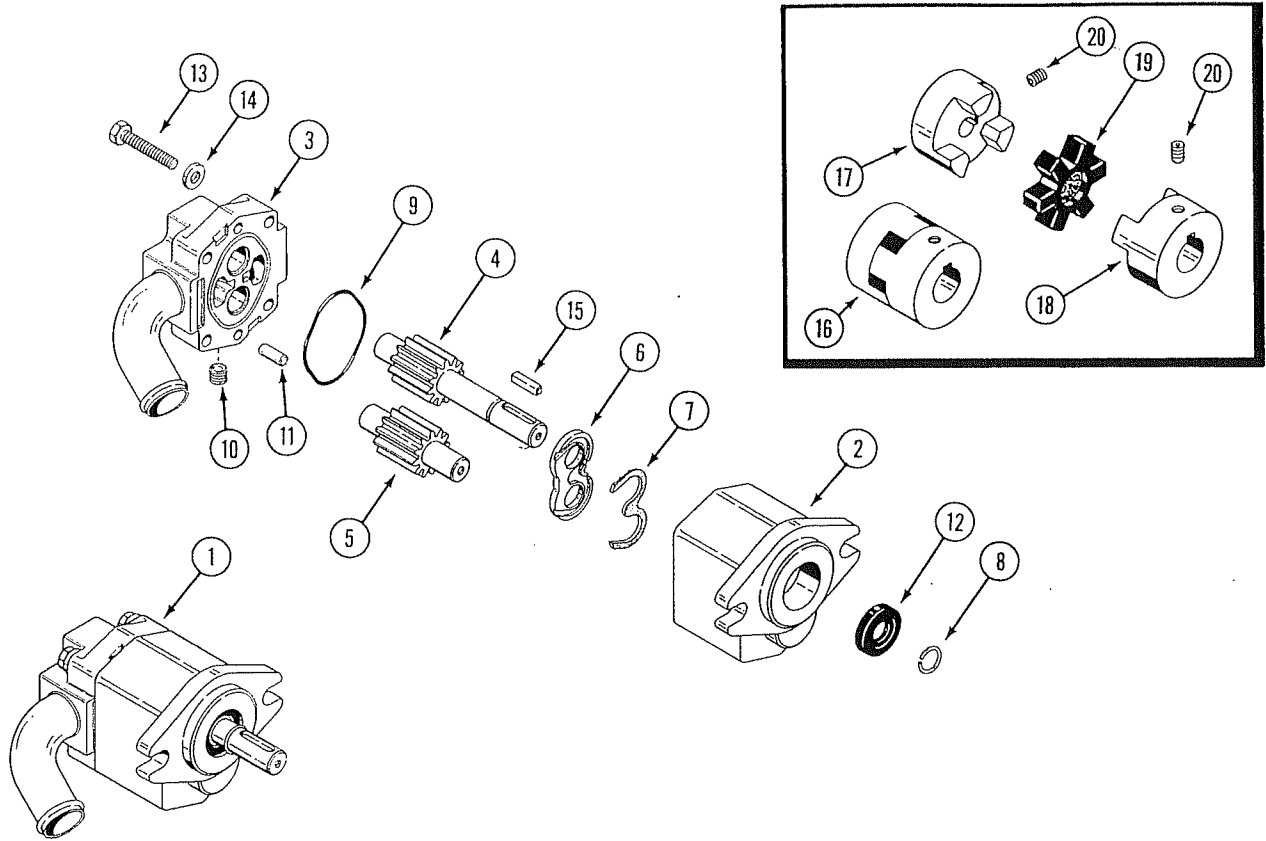
SPEED CONTROL

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 28237	KNOB - speed control	1
2	NSS	BUSHING - lever (Use 353-462)	1
3	NSS	LEVER - speed control (Use C29407, C28003)	1
4	C 27822	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

HYDRAULIC DRIVE MOTOR

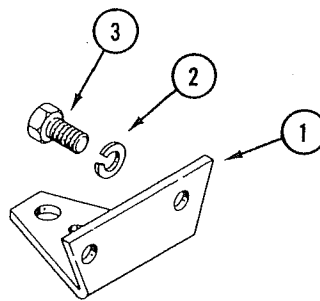
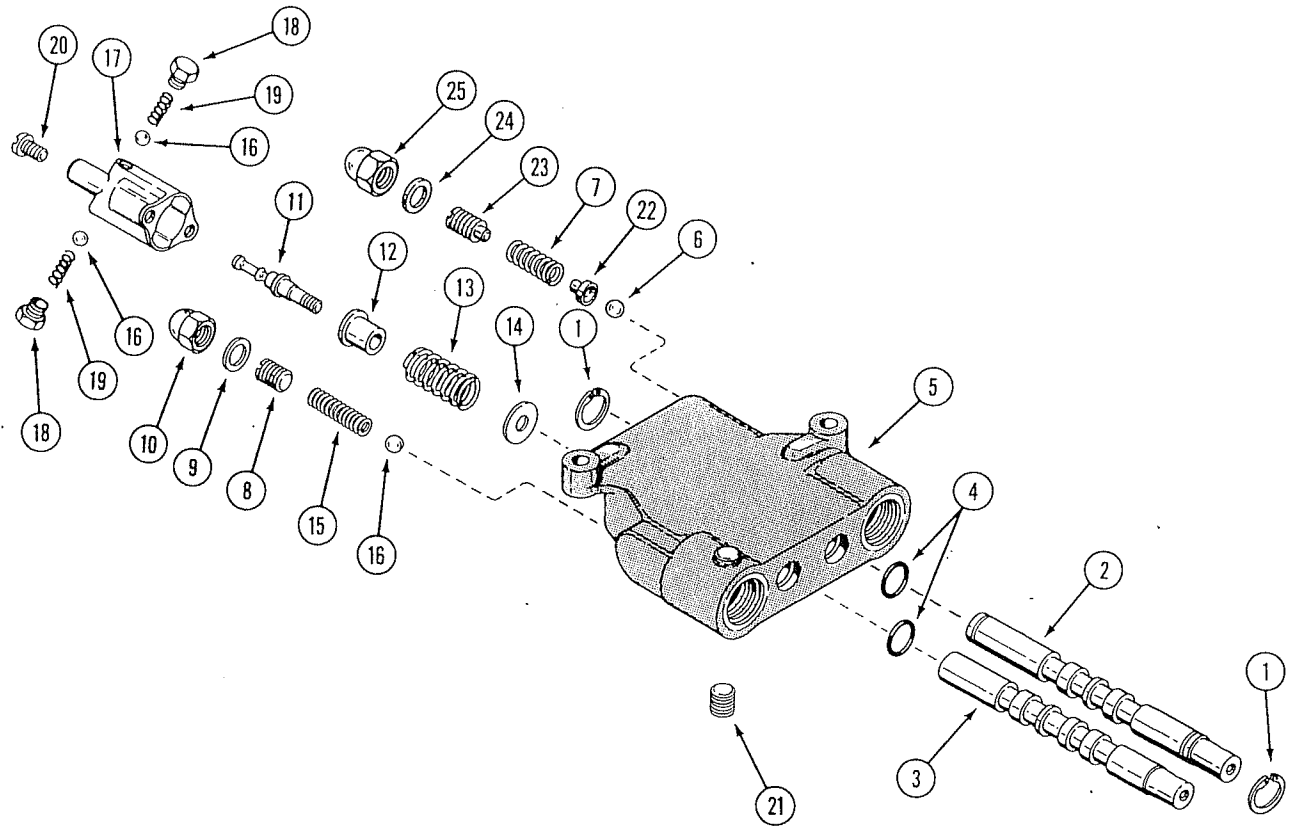
	NSS	MOTOR - hydraulic (Use C33234)	1
1	C 16516	RING - retaining	1
2	NSS	SPACER - (See kit below)	1
3	NSS	SEAL - oil (See kit below)	1
4	C 14827	HOUSING ASSEMBLY	1
5	NLA*	END CAP	1
6	NSS	SEAL - (See kit below)	2
7	NLA*	SHAFT - coupling	1
8	NLA*	DRIVE LINK	1
9	C 14830	PLATE - wear	1
10	NLA*	ROTOR ASSEMBLY	1
	NLA*	KIT - manifold (used motor code 127-7 and after)	1
11	NLA*	PLATE - manifold (used prior to motor code 127-7)	1
12	NLA*	MANIFOLD - (used prior to motor code 127-7)	1
13	NLA*	COMMUTATOR AND RING SET	1
14	NSS	RING - sealing (See kit below)	1
15	C 14836	SLEEVE	1
16	C 14838	BOLT - 3/8" x 4-3/8" N.F. hex.	7
17	NSS	WASHER - back up, .010" (see kit below)	1
	C 29732	KIT - "O" ring and seal	1
	NSS	RING - sealing	1
	NSS	SEAL - dirt (not used - throw away item)	1
	NSS	SEAL	2
	NSS	SEAL	1
	NSS	RING - retaining	1
	NSS	SPACER - seal	1
	NSS	WASHER - back up, .010"	1

* Parts no longer available.
Must use complete hydraulic motor.



HYDRAULIC PUMP AND COUPLING

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PUMP - hydraulic (9/16" shaft)(order C25053)	1
2	C 20456	BODY - pump	1
3	C 20457	COVER ASSEMBLY - pump	1
4	C 20460	GEAR - pump, drive	1
5	C 20461	GEAR - pump, driven	1
6	C 20462	PLATE - wear	1
7	NSS	SEAL AND RETAINER - wear plate (Use C24070, C24071)	1
8	A 35690	RING - retaining	1
9	C 28927	SEAL - "O" ring	1
10	221- 849	PLUG - pipe	1
11	D 58188	PIN - dowel	1
12	C 20464	SEAL - shaft	1
13	13- 424	BOLT - 1/4" x 1-1/2" N.C. hex	4
14	D 58189	WASHER - 1/4"	4
15	C 20455	KEY - square 3/16"	1
16	C 25209	COUPLING - shaft	1
17	NSS	HUB - coupling (order item 16)	1
18	NSS	HUB - coupling (order item 16)	1
19	C 15036	SPIDER - rubber	1
20	C 32199	SET SCREW - 5/16" x 5/16" N.C. socket head	2

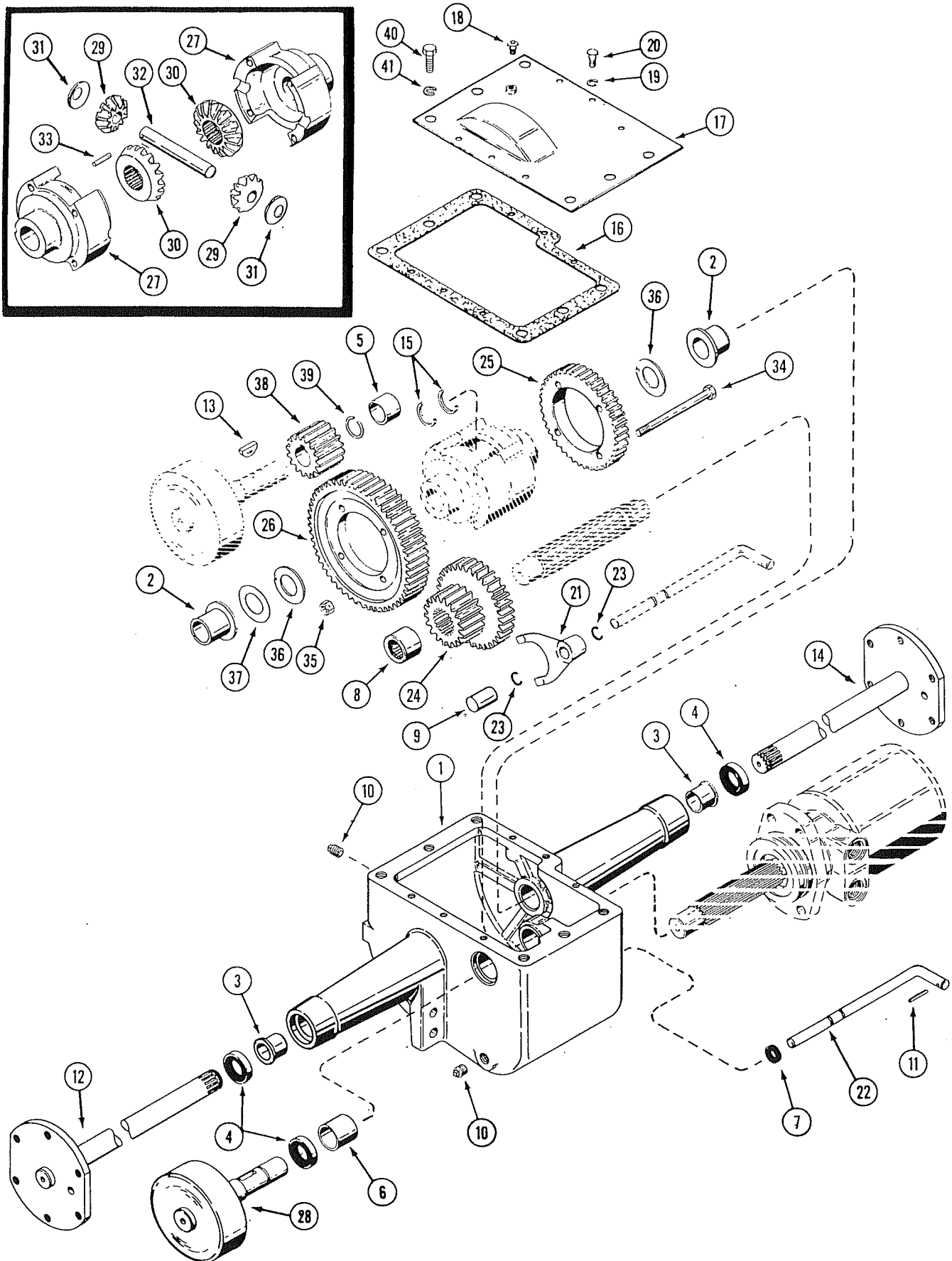


HYDRAULIC CONTROL VALVE (TWO SPOOL)

REF.	PART NO.	DESCRIPTION	REQ'D
	NSS	VALVE - control, two spool (Use C45048 kit)	1
1	C 28699	RING - retaining	2
2	NSS	SPOOL - motor (Order C21496)	1
3	NSS	SPOOL - float (Order C21496)	1
4	C 28856	SEAL - spool	4
5	NSS	BODY - valve (Order C21496).	1
6	211- 208	BALL - steel 5/16"	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 17439	DETENT - spool	1
12	C 13200	SPACER - detent	1
13	C 26431	SPRING - detent return.	1
14	C 17440	WASHER - return.	1
15	NSS	SPRING - relief (Use C21511 kit)	1
16	211- 7	BALL - steel 1/4"	3
17	C 17438	COVER - detent	1
18	C 17443	SCREW - detent	2
19	C 17444	SPRING - detent	2
20	169- 114	SCREW - cover.	2
21	221- 841	PLUG - pipe	1
22	C 21506	RETAINER - ball seat.	1
23	C 21509	SCREW - adjust, relief.	1
24	C 21508	GASKET - adjust cap	1
25	C 21510	CAP - adjust screw	1
	C 21521	KIT - relief (includes items 6, 7, 22, 23, 24 and 25).	1
	C 21511	KIT - relief (includes items 8, 9, 10, 15 and 16)	1
	C 18851	KIT - detent (includes items 11, 12, 13, 14, 16, 17, 18, 19 and 20)	1

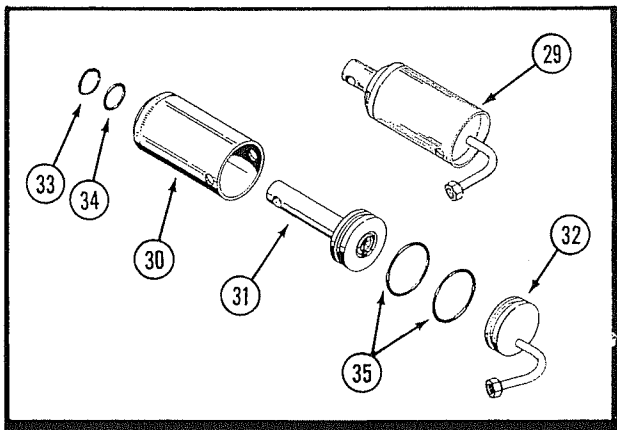
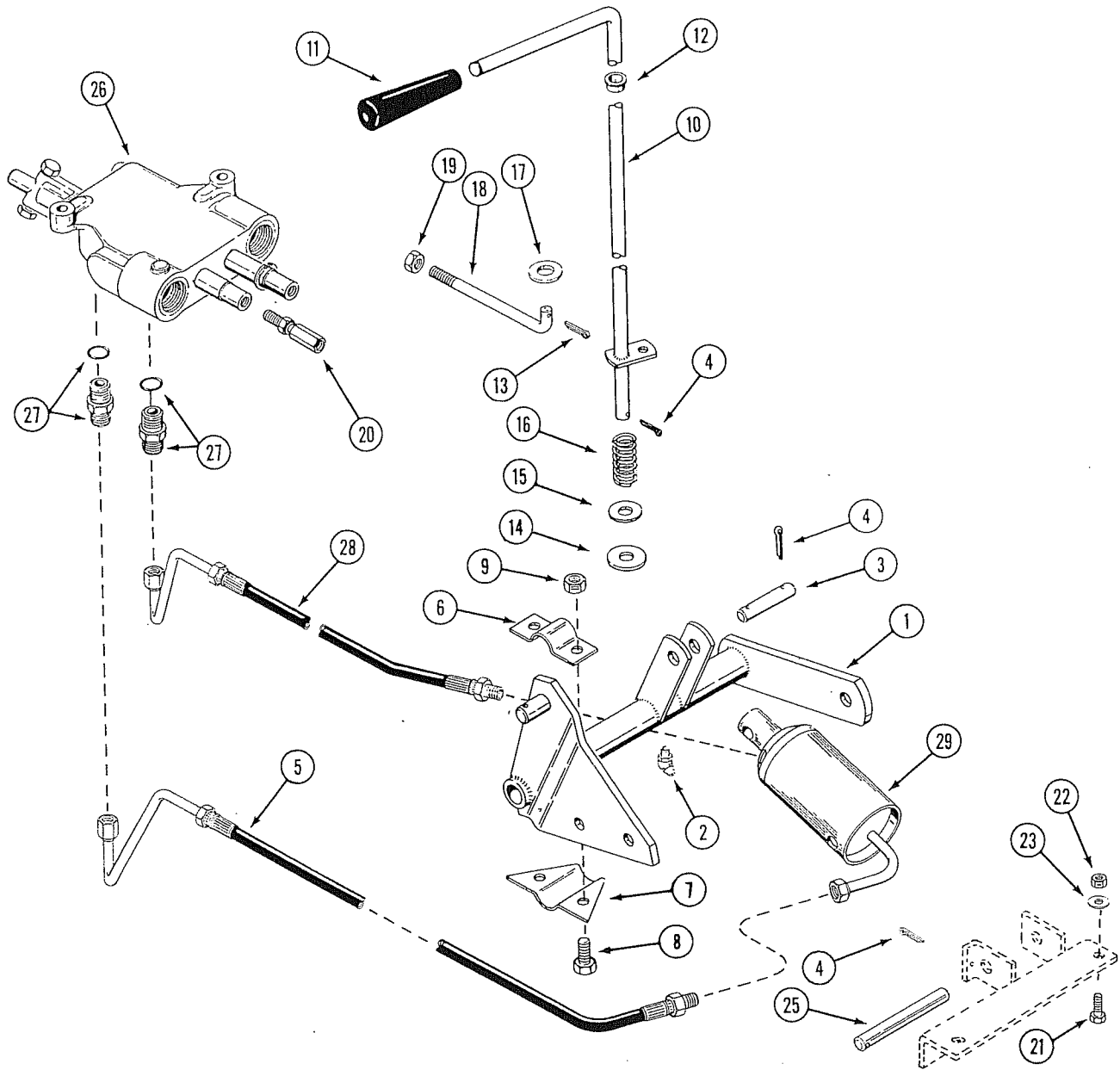
DRAWBAR AND TOW HITCH

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



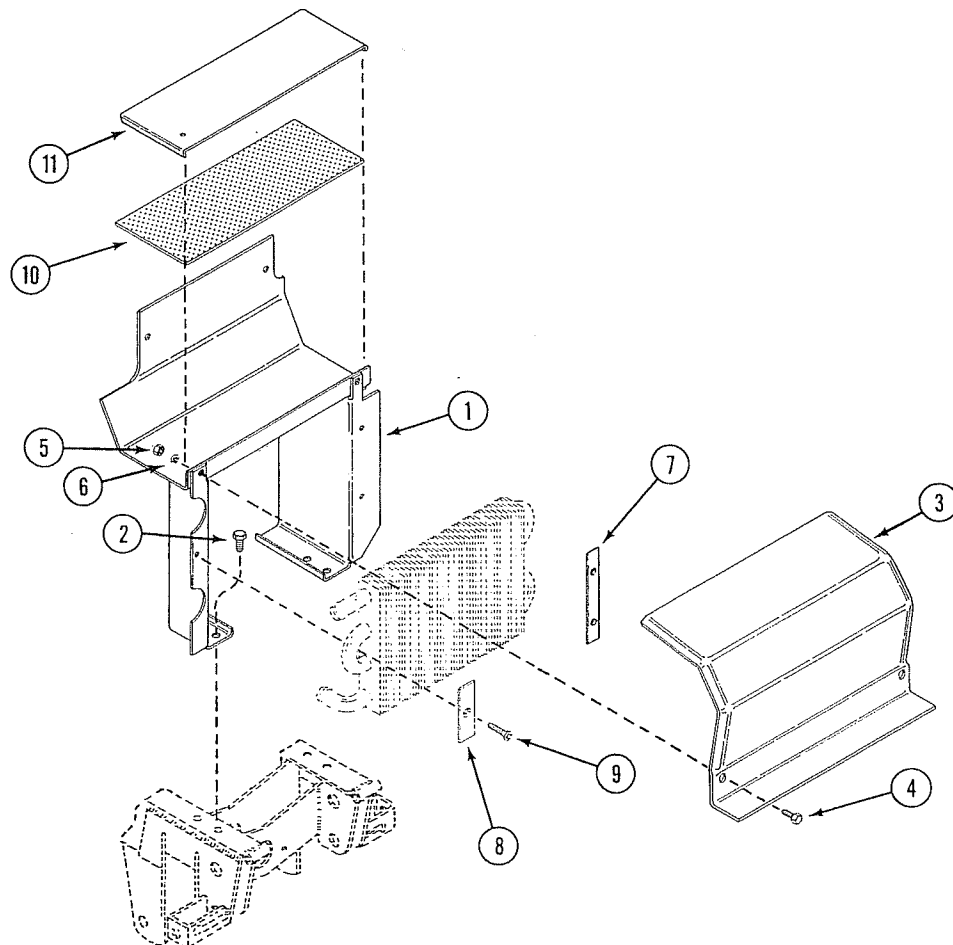
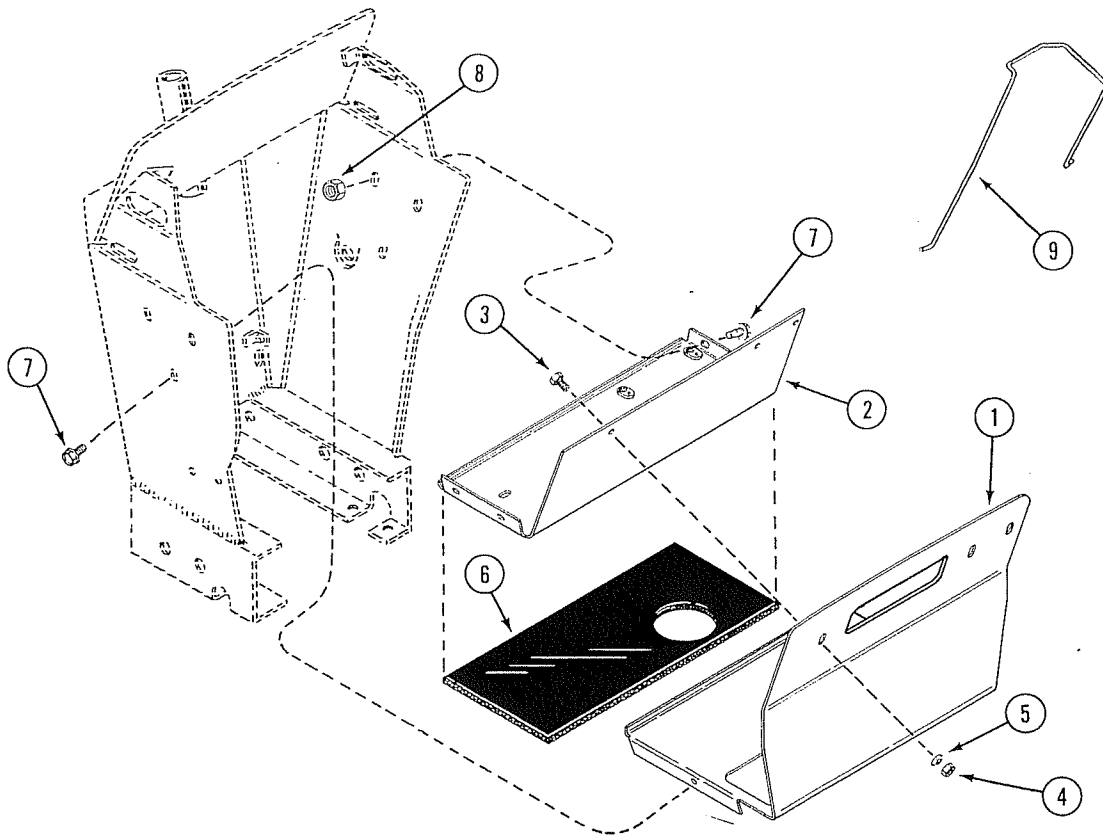
TRANSMISSION AND FINAL DRIVE

REF.	PART NO.	DESCRIPTION	REQ'D
	C 24843	CASE ASSEMBLY - transmission (used S/N 9755072 and after)	1
1	NSS	CASE - transmission (used prior to S/N 9755072)(order C24843 assembly and C24802 rod)	1
1	NSS	CASE - transmission (used S/N 9755072 and after)(order C24843 assembly)	1
2	C 12713	BEARING - flanged	2
3	C 16744	BEARING - flanged (used prior to S/N 9755072)	2
3	C 24804	BEARING - flanged (used S/N 9755072 and after)	2
4	C 24803	SEAL - shaft (used S/N 9755072 and after)	3
4	C 14531	SEAL - shaft (used prior to S/N 9755072)	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 (used S/N 9755072 and after)	1
8	C 13211	BEARING - roller (used prior to S/N 9755072)	1
9	C 12723	CAP - shift rod	1
10	221- 4	PLUG - filler and drain 1/2"	2
11	138- 319	PIN - roll 3/16" x 1-1/2"	1
12	C 22638	SHAFT - axle, short R.H.	1
13	126- 128	KEY - Woodruff, brake idler.	1
14	C 22637	SHAFT - axle, long L.H.	1
15	C 26342	RING - retainer, axle.	2
16	C 13196	GASKET - transmission cover	1
17	C 36935	COVER - transmission	1
18	C 28241	BREATHER - transmission.	1
19	192- 19	LOCKWASHER - 1/4"	6
20	113- 1	BOLT - 1/4" x 1/2" N.C. hex	6
21	C 12725	FORK - shift	1
22	C 16339	ROD - gear shift(used prior to S/N 9755072)	1
22	C 37222	ROD - gear shift(used S/N 9755072 and after)	1
23	C 14168	RING - retaining	2
24	C 14644	GEAR - cluster input	1
25	NSS	GEAR - high 41 tooth (Use C36903, C36901, C36935, C30031)	1
26	C 12552	GEAR - low 55 tooth	1
27	NSS	DIFFERENTIAL CASE- (Use C42852 differential assembly)	1
28	C 33305	BRAKE DRUM - (Also use C33417)	1
29	NSS	GEAR - differential pinion	2
30	NSS	GEAR - differential	2
31	C 12559	WASHER - pinion thrust	2
32	C 12560	PIN - differential cross	1
33	NSS	PIN - differential cross lock	1
34	28- 680	SCREW - 3/8" x 5" N.F. hex cap	4
35	131- 1232	NUT - lock 3/8" N.F. hex	4
36	C 12718	WASHER - differential	2
37	C 14223	WASHER - spacer.	UAR
38	C 33417	GEAR - brake idler (Also use C33305)	1
39	C 14222	RING - retainer, brake idler	1
40	113- 424	BOLT - 1/2" - 13 x 1" hex	3
40	166- 86	BOLT - 1/2" - 13 x 1-1/4" flange	1
41	192- 23	LOCKWASHER - 1/2"	4



HYDRAULIC LIFT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 19661	CROSS SHAFT ASSEMBLY	1
2	219- 404	FITTING - lube	1
3	C 18251	PIN - cylinder to lever	1
4	132- 310	PIN - cotter 1/8" x 1"	5
5	NSS	HOSE - long (Use C44743, 218-5134)	1
6	C 17249	BRACKET - mounting top	2
7	C 17250	BRACKET - mounting, bottom	2
8	13- 614	BOLT - 3/8" x 7/8" N.C. hex	4
9	131- 1181	NUT - 3/8" N.C. hex	4
10	C 29408	LEVER - lift control	1
11	C 28237	KNOB - control lever	1
12	NSS	BUSHING - lift lever (Use 353-462)	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 foot	1
26	NSS	VALVE - hydraulic, two spool (Use C45048 kit)	1
27	218- 5056	FITTING - valve (includes 218-5004 "O" ring)	2
28	NSS	HOSE - short (Use C44742, 218-5134, 218-1093)	1
29	NSS	CYLINDER - lift (Use C26493)	1
30	C 16133	BODY - cylinder	1
31	NSS	ROD AND PISTON ASSEMBLY (Use C26493)	1
32	NSS	FOOT - cylinder (Use C26493)	1
33	C 14970	SEAL	1
34	C 28487	"O" RING	1
35	C 28697	"O" RING	2
	C 13106	COVER - lube fitting	1

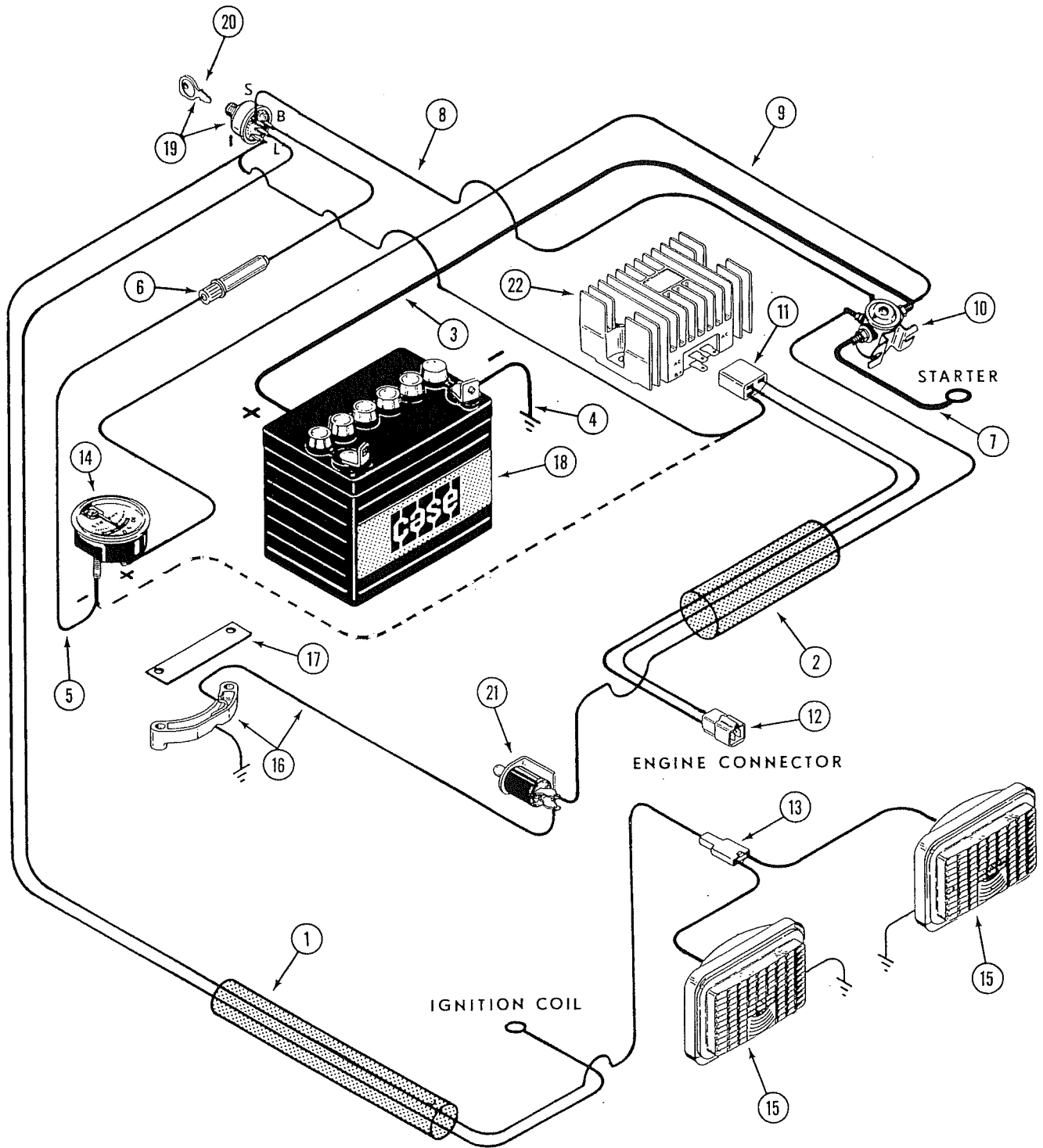


BATTERY MOUNT AND HYDRAULIC RESERVOIR MOUNT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23577	SUPPORT - hydraulic reservoir	1
2	C 23578	TRAY - battery	1
3	113- 1	BOLT - 1/4" - 20 x 1/2" hex	3
4	129- 101	NUT - 1/4" - 20 hex	3
5	192- 19	LOCKWASHER - 1/4"	3
6	C 22896	PAD - rubber	1
7	121- 106	SCREW - 5/16" x 1/2" Whizlock.	6
8	129- 102	NUT - 5/16" N.C. hex	4
9	C 16239	STRAP - battery hold down	1

HEAT EXCHANGER MOUNTS AND MUFFLER SHIELDS

1	C 23482	SUPPORT - heat exchanger	1
2	113- 118	BOLT - 5/16" x 5/8"	4
3	C 26455	SHIELD - heat, muffler	1
4	113- 1	BOLT - 1/4" - 20 x 1/2" hex	2
5	129- 101	NUT - 1/4" - 20 hex	2
6	192- 19	LOCKWASHER - 1/4"	2
7	C 14246	BRACKET - heat exchanger L.H.	1
8	C 25556	BRACKET - heat exchanger R.H.	1
9	187- 1252	SCREW - 1/4" x 1-1/2" flat head Phillips	3
10	C 23558	PAD - insulation	1
11	C 23559	RETAINER - insulation.	1

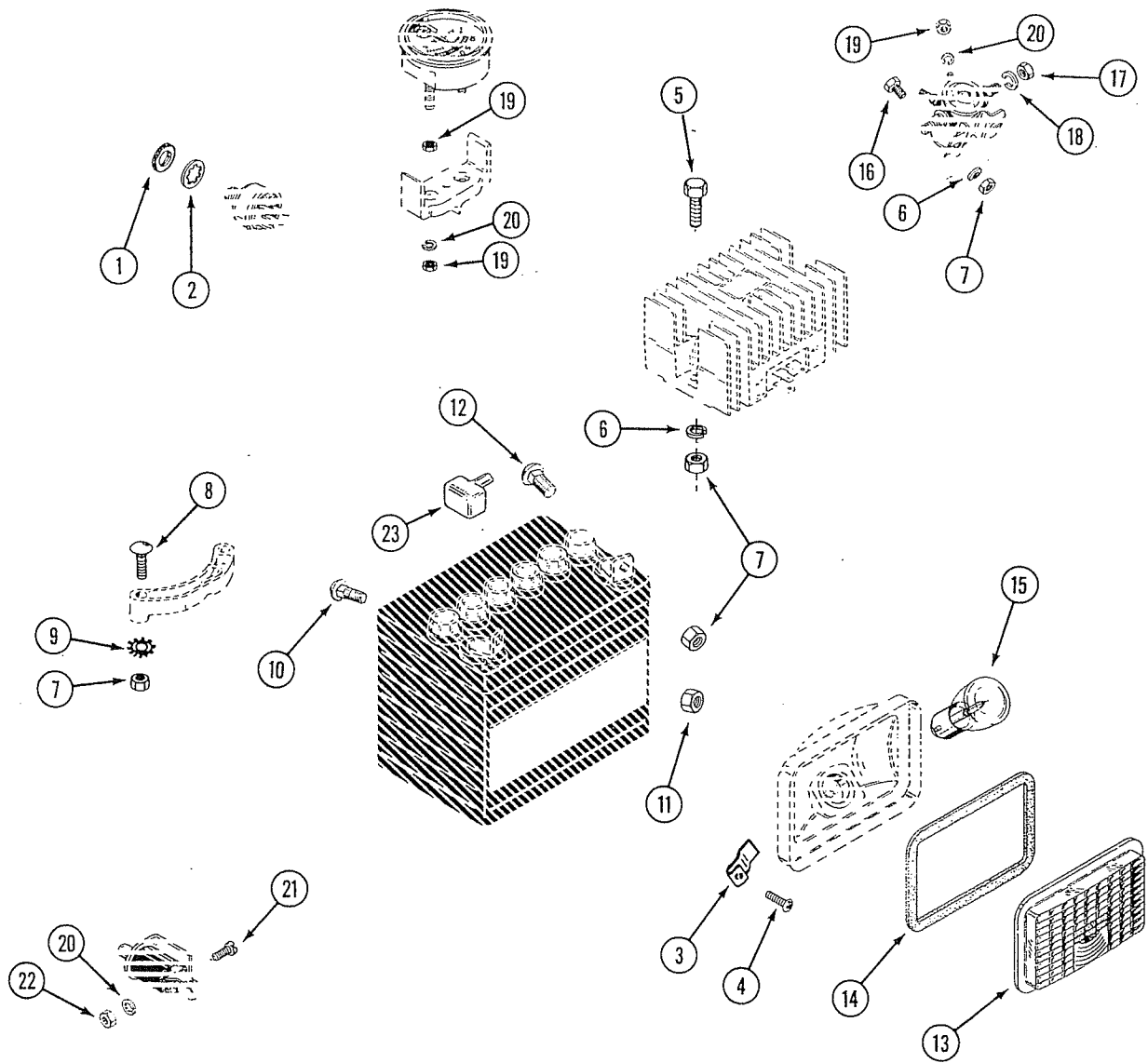


ELECTRICAL SYSTEM

REF.	PART NO.	DESCRIPTION	REQ'D
1*	C 24716	HARNESS - wire	1
2	C 23586	HARNESS - wire	1
3	C 14565	CABLE - battery "positive" to solenoid (red 10 - 1/2")	1
4	C 24809	CABLE - battery "negative" to ground (black 12")	1
5*	C 24717	WIRE ASSEMBLY - ammeter "negative" to switch "B" (includes fuse and fuse holder)	1
6	223- 31	FUSE - 30 amp	1
7	C 19232	WIRE - solenoid to starter (black 18")	1
8	C 23583	WIRE - solenoid to ignition switch "S" (yellow 13")	1
9	NSS**	WIRE - ammeter "positive" to solenoid (black 15")	1
10	C 14553	SOLENOID - start	1
11	C 19378	CONNECTOR - rectifier, 3 contact	1
12	C 19379	CONNECTOR - engine, 2 contact	1
13	C 14537	CONNECTOR - headlamp	1
14	C 29413	AMMETER - 30 amp	1
15	C 32178	HEADLAMP ASSEMBLY - 12 volt	2
16	C 23002	SWITCH ASSEMBLY - neutral start (includes wire)	1
17	C 21989	INSULATOR - neutral start	1
18	C 41010	BATTERY - 12 volt	1
19	C 30268	SWITCH ASSEMBLY - ignition (does not include nut)	1
20	C 32407	KEY - ignition	1
21	C 22765	SWITCH - PTO	1
22	NSS	RECTIFIER - regulator (Use C25486, C26670, C31249)	1

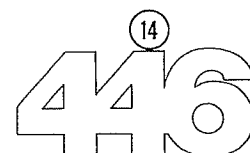
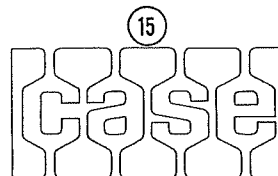
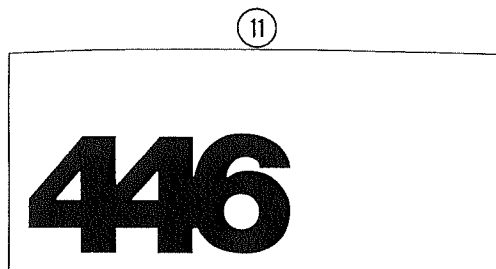
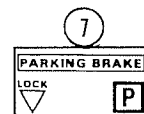
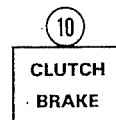
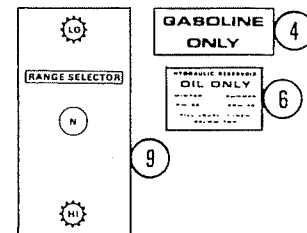
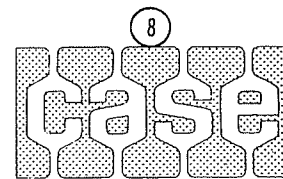
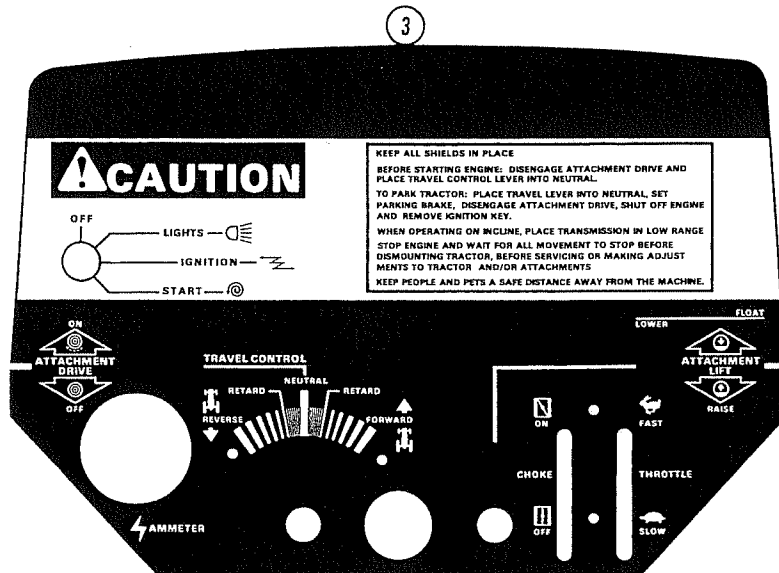
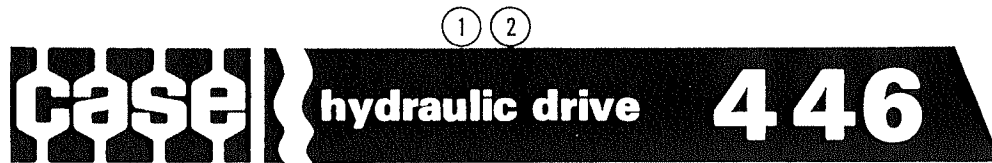
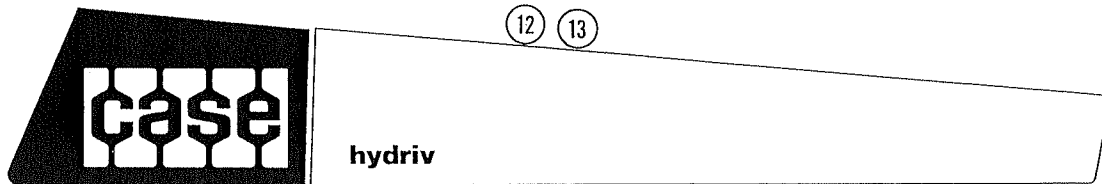
*use to modify early production as shown in illustration

** Use C33024 and 2 each of C33026, 129-101, 192-19



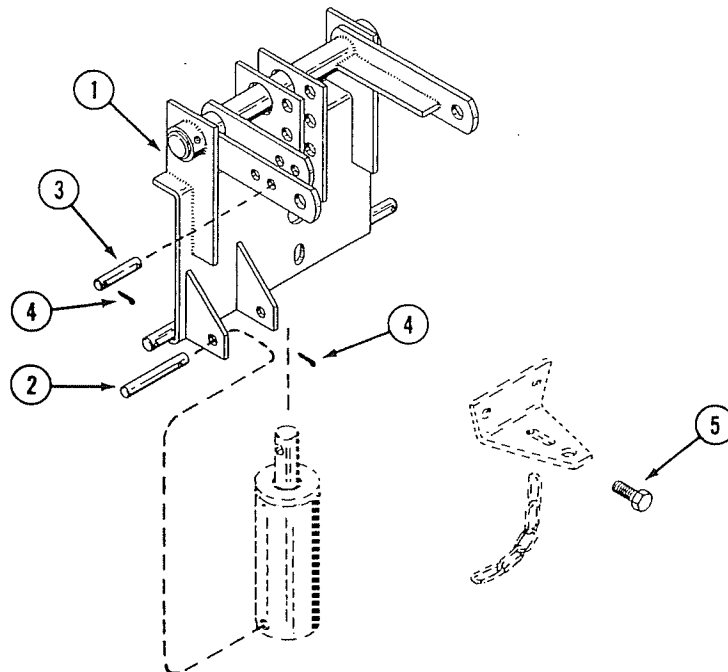
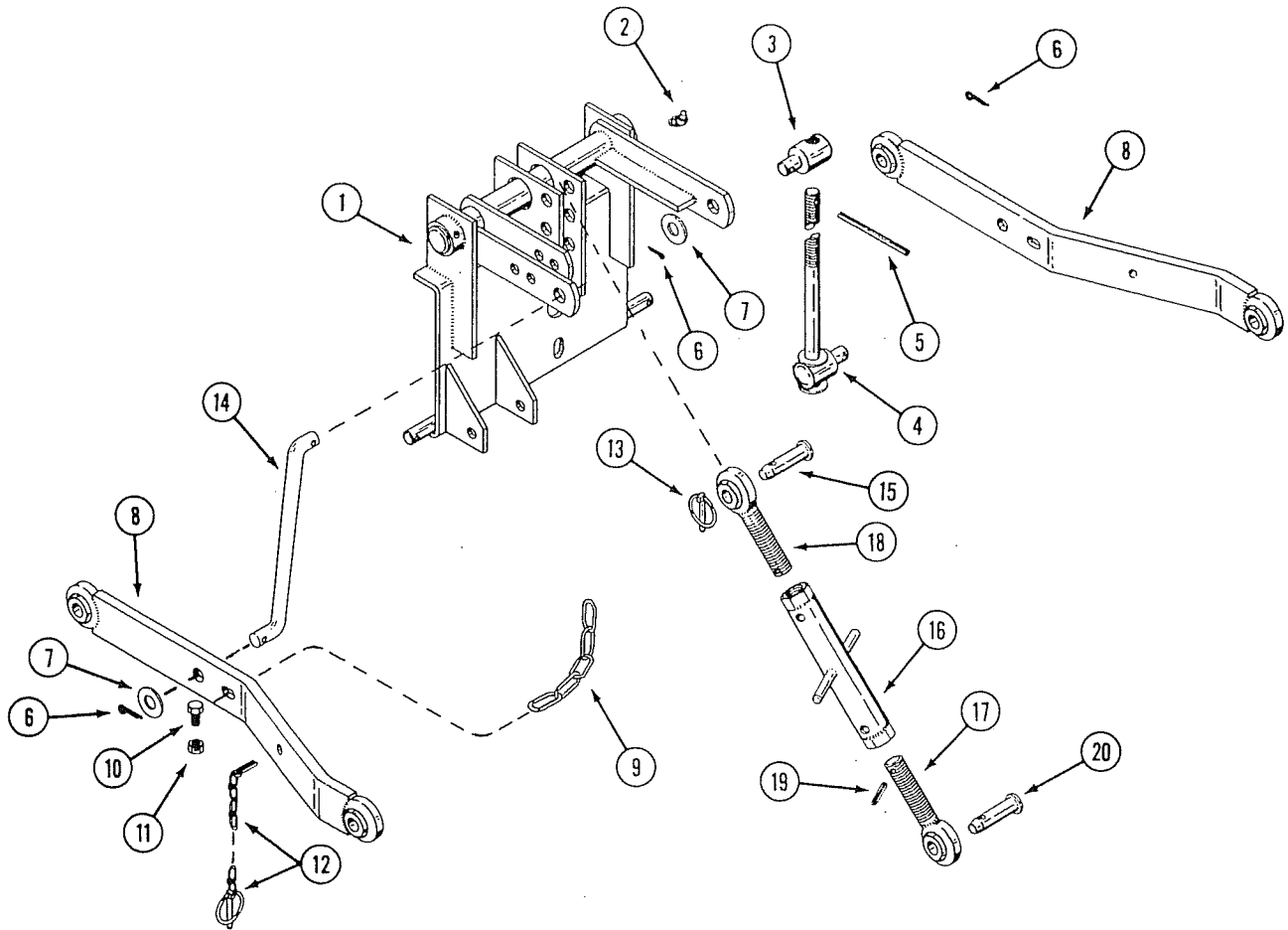
ELECTRICAL SYSTEM HARDWARE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23330	NUT - switch	1
2	C 23012	LOCKWASHER - switch	1
3	131- 629	NUT - speed type "U"	4
4	187- 1334	SCREW - #8 x 1/2" self tapping Phillips	4
5	113- 1	BOLT - 1/4" - 20 x 1/2" hex	2
6	192- 19	LOCKWASHER - 1/4"	4
7	129- 101	NUT - 1/4" - 20 hex	7
8	111- 131	BOLT - 1/4" - 20 x 1-1/8" round head, square neck	2
9	193- 57	LOCKWASHER - 1/4" external tooth	2
10	111- 202	BOLT - 5/16" x 3/4" N.C. round head, square neck	1
11	129- 102	NUT - 5/16" hex	1
12	111- 108	BOLT - 1/4" x 3/4" round head, square neck	1
	C 32178	HEADLAMP ASSEMBLY - 12 volt	2
13	C 22573	LENS - headlamp	1
14	C 14304	GASKET - headlamp	2
15	C 28932	BULB - headlamp, 12 volt	1
16	113- 1	BOLT - 1/4" - 20 x 1/2" hex	2
17	129- 122	NUT - 5/16" N.F. hex	2
18	192- 20	LOCKWASHER - 5/16"	2
19	129- 27	NUT - #10 hex	6
20	192- 18	LOCKWASHER - #10	6
21	182- 528	SCREW - #10 - 32 x 1/2" pan head	2
22	129- 37	NUT - #10 - 32 hex	2
23	C 24069	COVER - terminal	1
	C 19521	CLIP - wire holder	1



DECALS

REF.	PART NO.	DESCRIPTION	REQ'D
1	321- 3778	DECAL - hood L.H. (used prior to S/N 9730384) shown.	1
2	321- 2500	DECAL - hood R.H. (used prior to S/N 9730384)	1
3	321- 3585	DECAL - instrument panel.	1
4	C 29031	DECAL - gasoline.	1
5	321- 2658	DECAL - float.	1
6	C 23209	DECAL - hydraulic reservoir.	1
7	C 27481	DECAL - parking brake.	1
8	NLA	DECAL - "CASE" (used prior to S/N 9730384)	1
9	C 33589	DECAL - shift range	1
10	C 26932	DECAL - clutch, brake.	1
11	321- 4166	DECAL - hood top (used S/N 9730384 and after)	1
12	321- 4155	DECAL - hood R.H. (used S/N 9730384 and after) shown.	1
13	321- 4156	DECAL - hood L.H. (used S/N 9730384 and after)	1
14	321- 4153	DECAL - fender, "446" (used S/N 9730384 and after)	1
15	321- 2677	DECAL - fender, "CASE" (used S/N 9730384 and after).	1

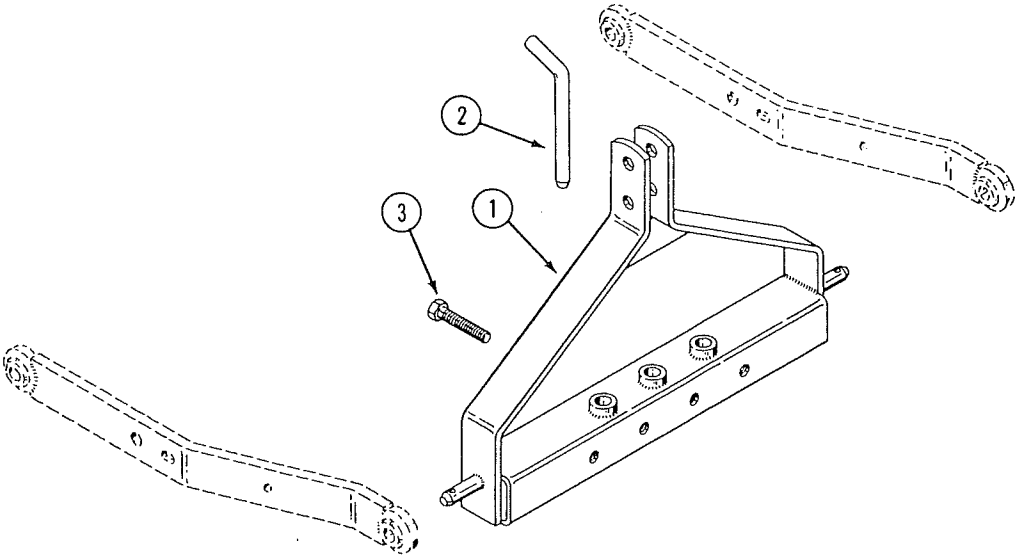
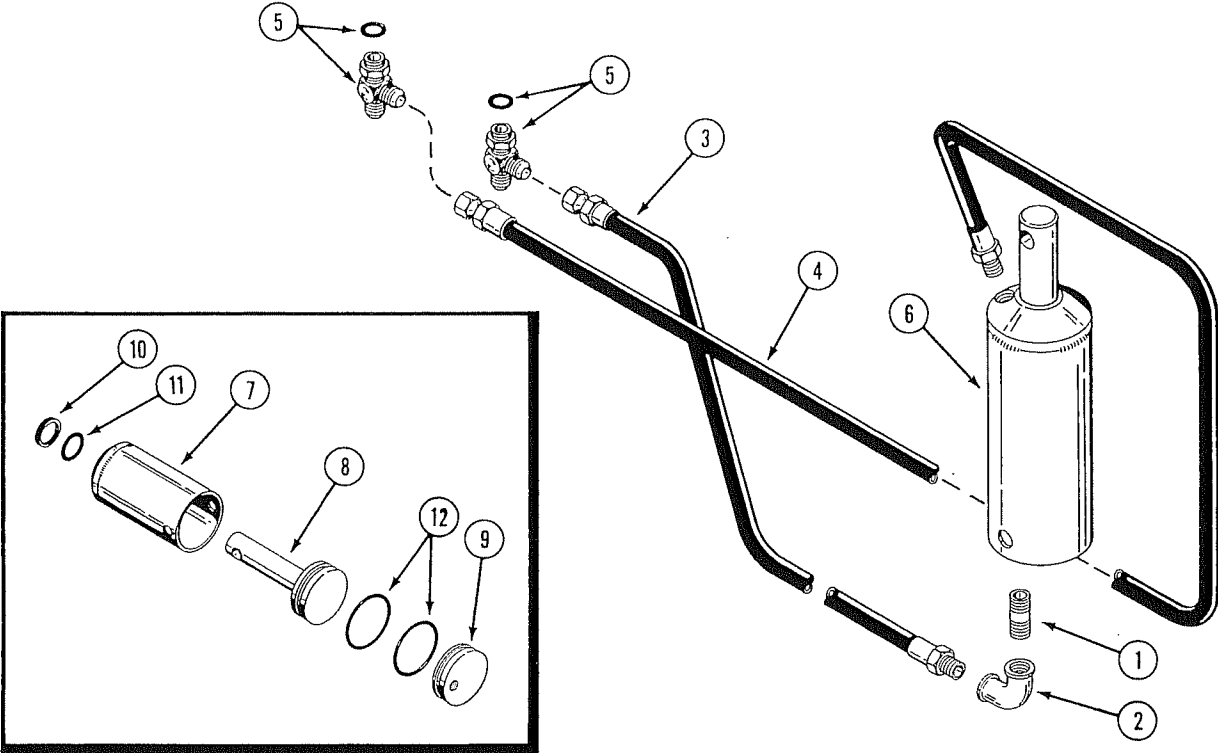


H26 THREE POINT HITCH FRAME, LIFT RODS AND ARMS

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	HITCH PLATE ASSEMBLY (Order complete hitch)	1
2	219- 405	FITTING - lube	2
3	C 14722	NUT - lift rod	1
4	C 14724	ROD ASSEMBLY - R.H. lift.	1
5	138- 308	PIN - roll 1/4" x 3"	1
6	132- 91	PIN - cotter 3/16" x 1"	6
7	195- 541	WASHER - plain 5/8"	4
8	C 14715	ARM - lift	2
9	C 14991	CHAIN - stay 19 links	1
10	113- 118	BOLT - 5/16" x 5/8" N.C. hex, zinc plated	2
11	131- 176	NUT - lock 5/16" N.C. hex	2
12	C 28985	PIN - klik	2
13	C 28222	PIN - klik	3
14	C 14725	ROD - lift L.H.	1
15	C 14717	PIN - clevis	1
	NSS	LINK ASSEMBLY	1
16	C 14703	CENTER TUBE ASSEMBLY	1
17	C 32426	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

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 plated	2

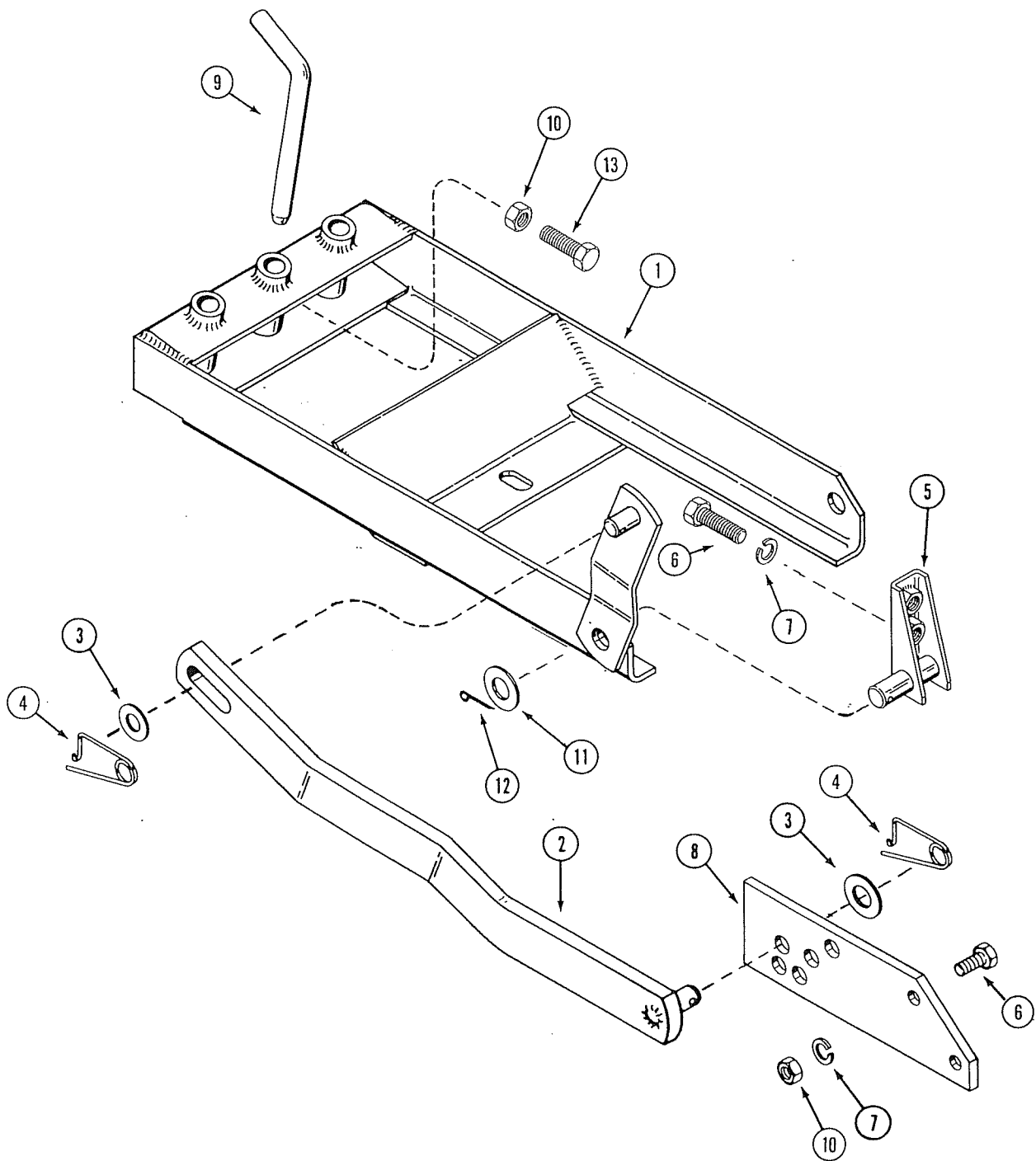


**MODEL H26 THREE POINT HITCH AND MODEL
F27 HITCH ADAPTER
HYDRAULIC CONNECTIONS AND COMPONENTS**

REF.	PART NO.	DESCRIPTION	REQ'D
1	NLA	NIPPLE - 1/4" x 1-1/2"	1
2	221- 1375	ELBOW - 90°	1
3	C 17188	HOSE - hydraulic short	1
4	C 17189	HOSE - hydraulic long	1
5	218- 5291	FITTING - tee (includes 218-5004 "O" ring)	2
6	NSS	CYLINDER ASSEMBLY - (Use C26494, C26188)	1
7	NSS	BODY - cylinder (Use complete cylinder)	1
8	NSS	ROD AND PISTON ASSEMBLY (Use complete cylinder)	1
9	NSS	FOOT - cylinder (Use complete cylinder).	1
10	C 14970	SEAL - wiper.	1
11	C 28487	"O" RING	1
12	C 28697	"O" RING	2

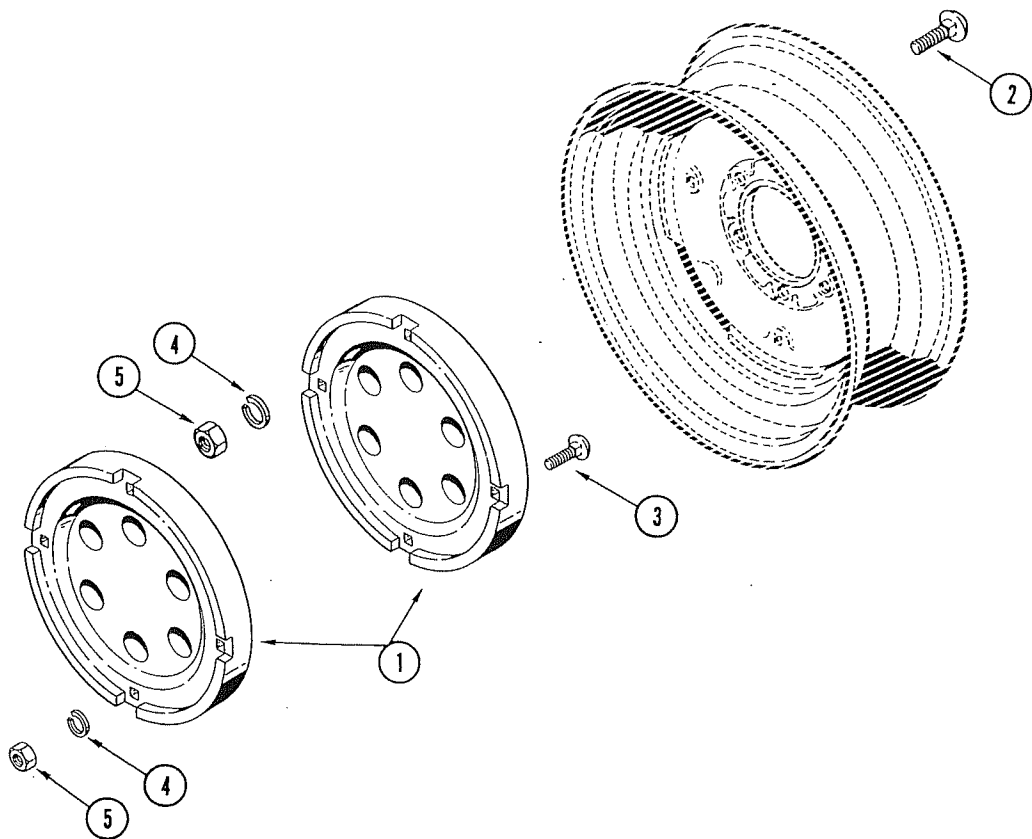
MODEL F27 HITCH ADAPTER

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



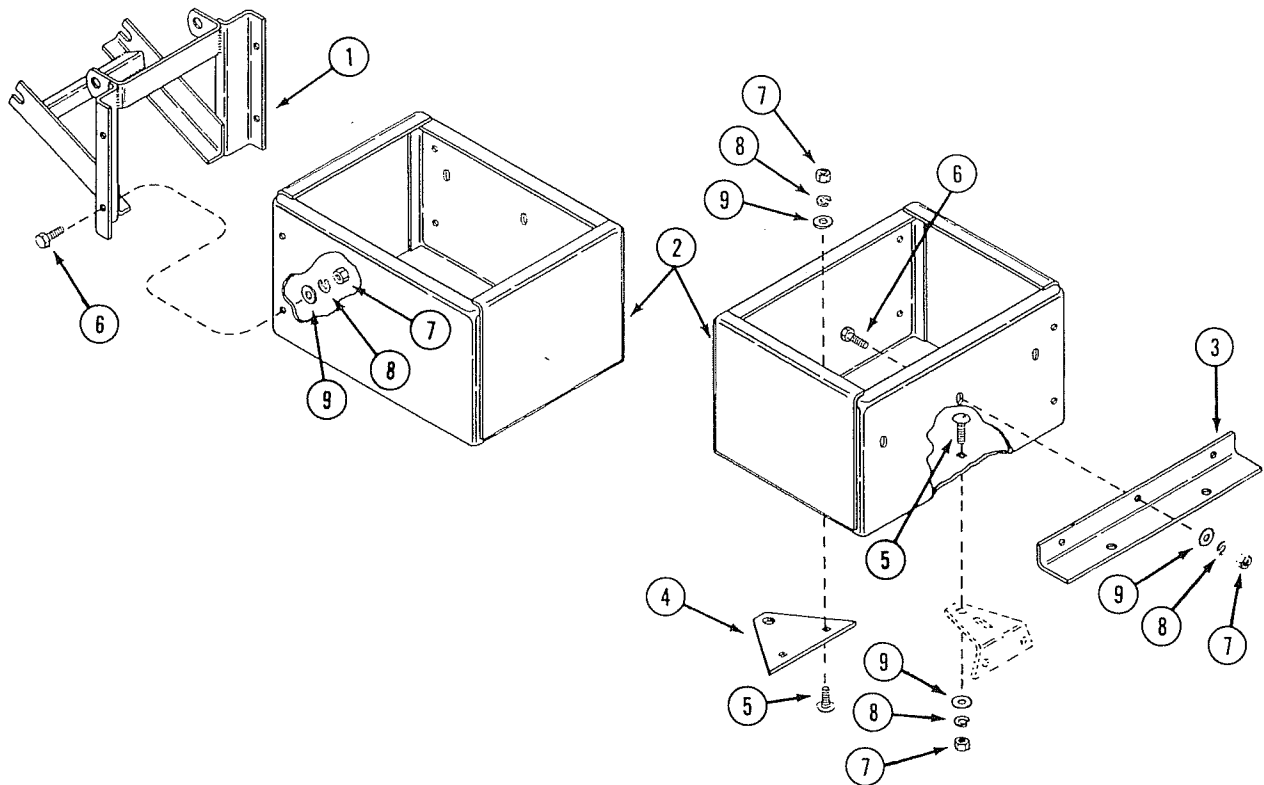
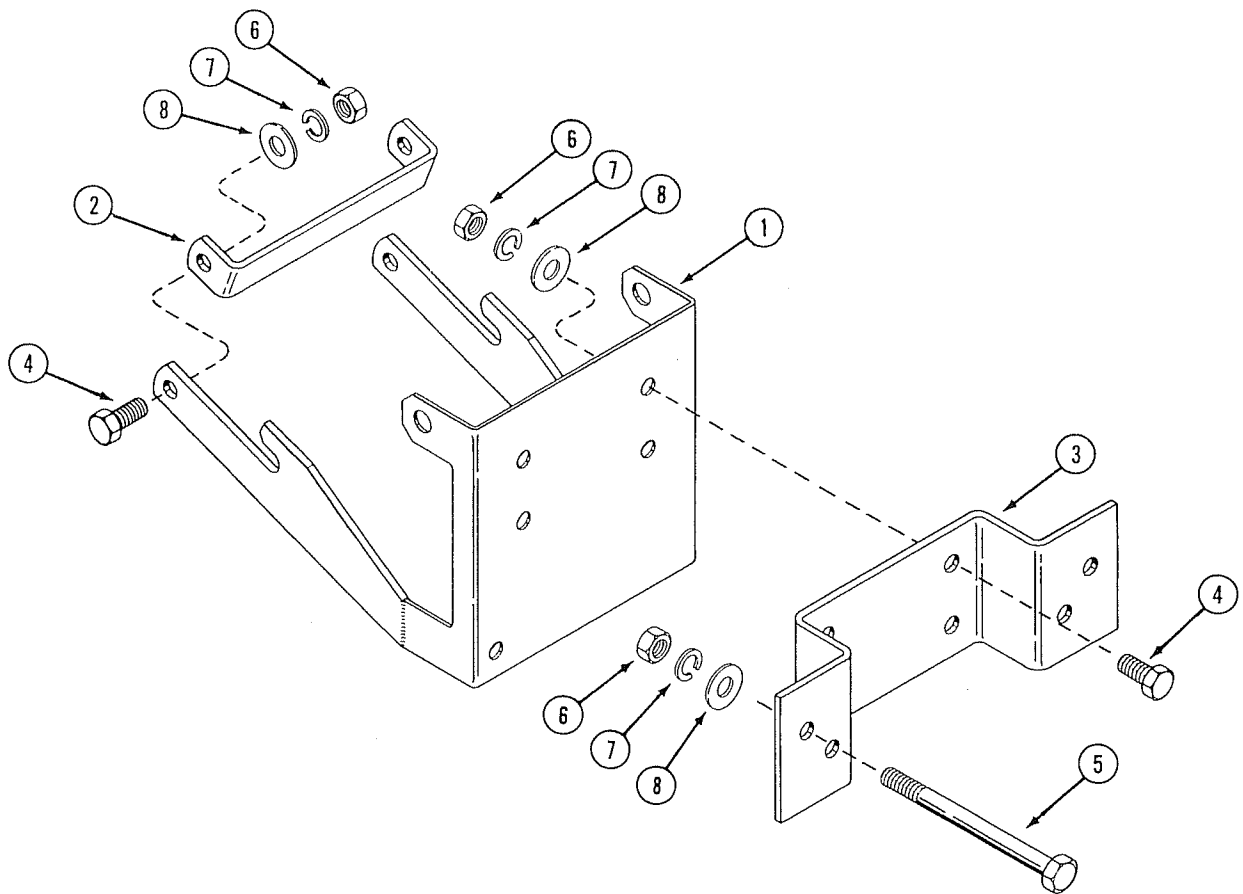
J24 SLEEVE HITCH

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 22218	HITCH FRAME ASSEMBLY	1
2	C 14457	ARM - lift	1
3	195- 541	WASHER - plain 21/32"	2
4	C 10898	PIN - safety	2
5	C 14459	BRACKET - hitch mounting R.H. (shown)	1
5	C 25786	BRACKET - hitch mounting L.H.	1
6	113- 2400	BOLT - 1/2" x 1-3/8" N.C. hex, zinc plated	6
7	192- 23	LOCKWASHER - 1/2" zinc plated	6
8	NSS	PLATE - lift lever (use C25382)	1
9	C 14568	PIN - drawbar	1
10	129- 105	NUT - 1/2" N.C. hex, zinc plated	4
11	195- 545	WASHER - plain 3/4" zinc plated	2
12	132- 306	PIN - cotter 3/16" x 1-3/4"	2
13	22- 844	BOLT - 1/2" x 2-3/4" N.C. hex, zinc plated	2



D10 WHEEL WEIGHTS

REF.	PART NO.		DESCRIPTION	REQ'D
1	NSS		WEIGHT - wheel 15" and 16" (Order as Machinery item)	4
2	111-	530	BOLT - 1/2" x 2-1/2" round head, square neck, N.C., zinc plated	4
3	111-	531	BOLT - 1/2" x 2-3/4" round head, square neck, N.C., zinc plated	4
4	92-	8	LOCKWASHER - 1/2" zinc plated	8
5	129-	105	NUT - 1/2" N.C. hex.	8

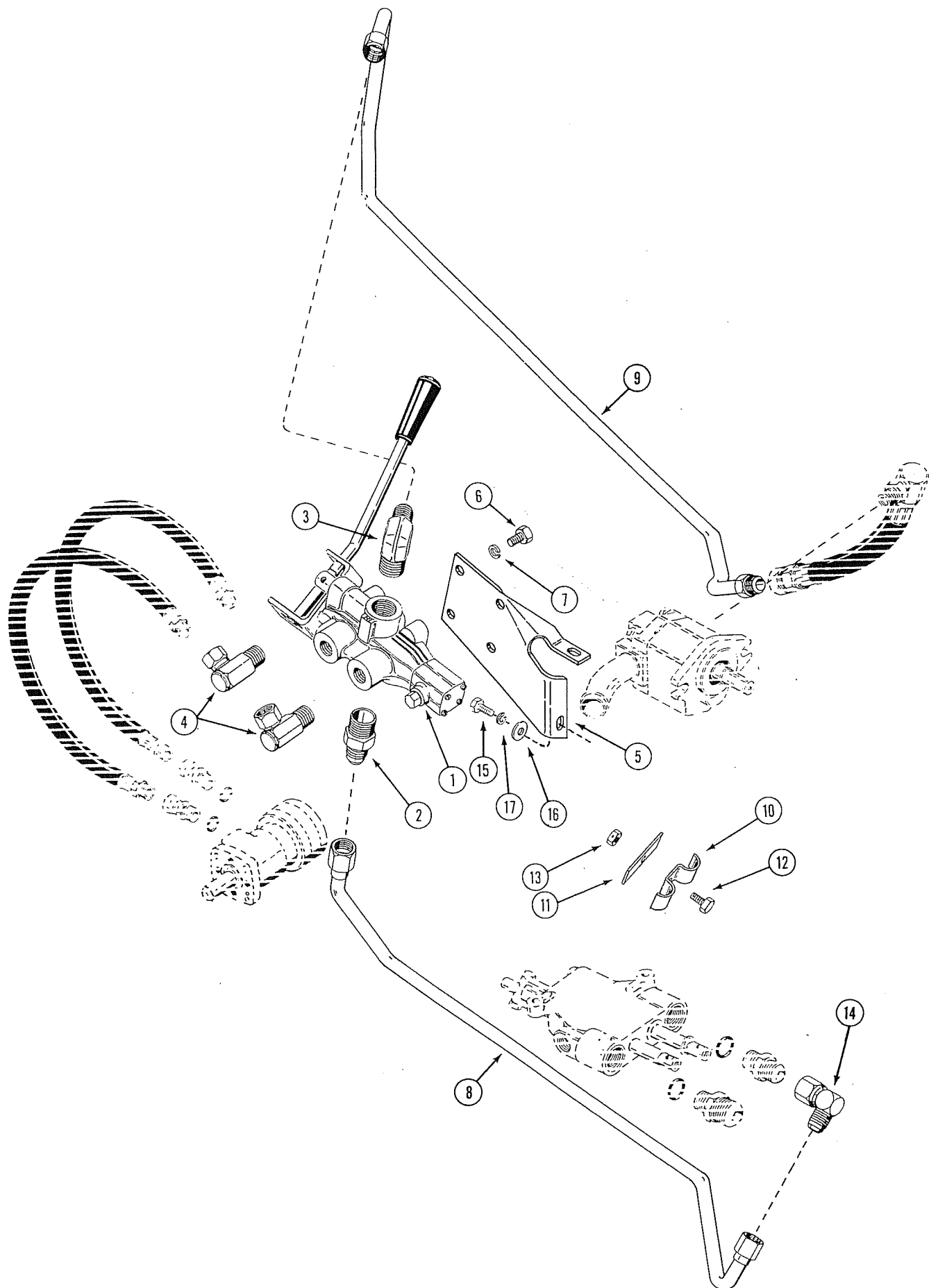


MODEL H18 FRONT END WEIGHT BRACKETS

REF.	PART NO.		DESCRIPTION	REQ'D
1	C	16581	BRACKET - mounting	1
2	C	17161	BRACE - rear	1
3	C	17162	BRACKET - weight mounting.	1
4	113-	417	BOLT - 1/2" x 1-1/2" N.C. hex, zinc plated	6
5	113-	443	BOLT - 1/2" x 6-1/2" N.C. hex	2
6	25-	108	NUT - 1/2" N.C. hex, zinc plated	8
7	192-	23	LOCKWASHER - 1/2"	8
8	195-	533	WASHER - 1/2" zinc plated	8

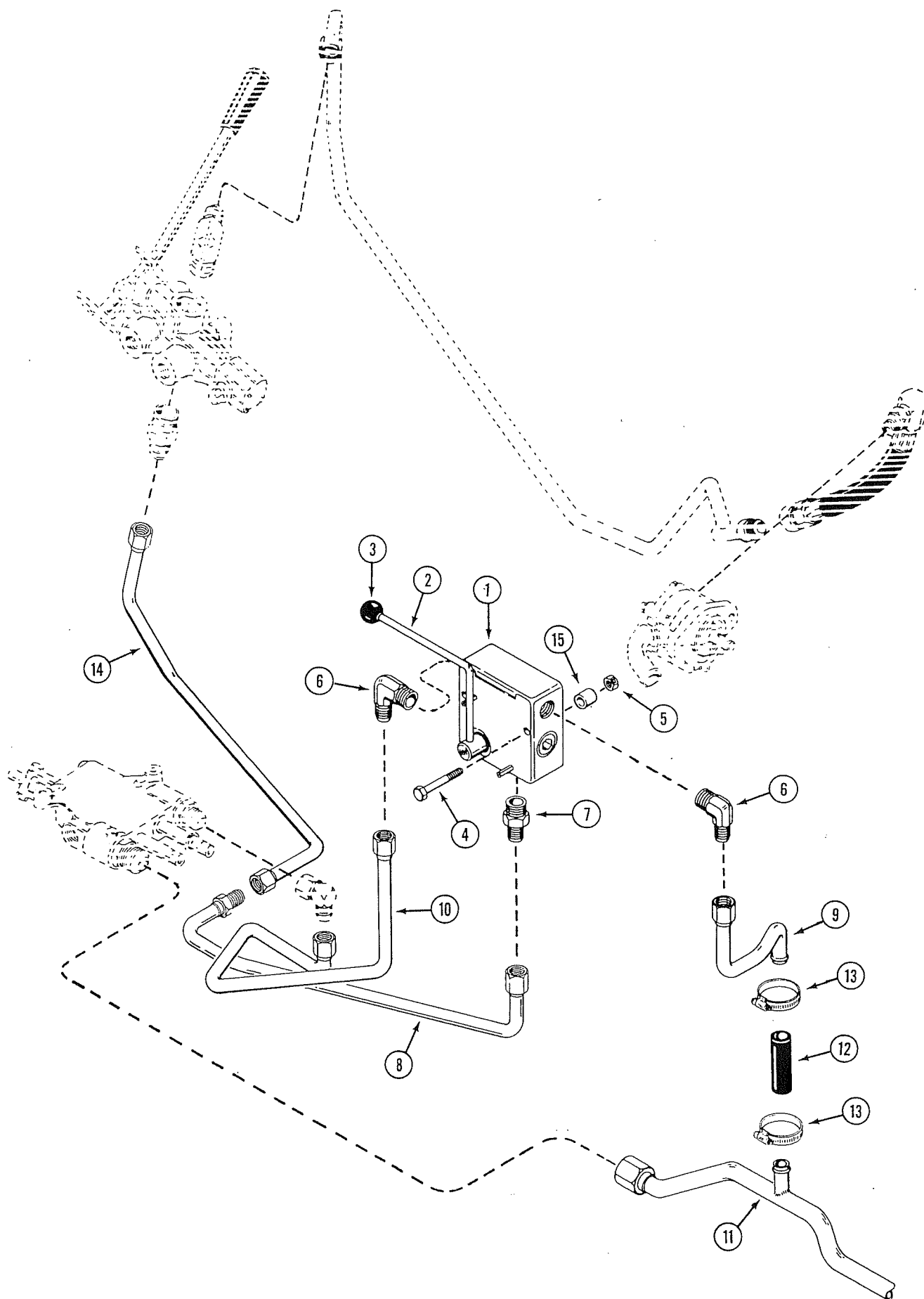
MODEL H13 WEIGHT BOX

1	C	17859	FRAME - weight box	1
2	NSS		BOX - weight.	1
3	C	17860	SUPPORT - weight box	1
4	C	17636	PLATE - hitch	1
5	111-	317	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	LOCKWASHER - 3/8"	7
9	195-	525	WASHER - 3/8"	7



J-17 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°, 3/4" NPT x 5/8" tube	1
4	218- 927	FITTING - elbow - 90°, 1/2" NPT x 1/2" female NPSM swivel	2
5	C 23337	BRACKET - valve mounting	1
6	113- 206	BOLT - 3/8" x 3/4" N.C. hex.	4
7	192- 21	LOCKWASHER - 3/8"	4
8	C 23888	TUBE - PTO valve to travel control valve	1
9	C 23962	TUBE - pump to PTO valve	1
10	C 15389	CLAMP - double, tubing (early production).	1
11	NLA	BAR - clamp (early production)	1
12	113- 102	BOLT - 5/16" x 3/4" N.C. hex (early production)	1
13	129- 102	NUT - lock 5/16" N.C. hex (early production).	1
14	218- 5232	FITTING - 90° swivel elbow 37° x 37° flare 3/4" NPT x 5/8" tube	1
15	113- 103	BOLT - 5/16" x 1" N.C. hex (fender mounting).	2
16	195- 521	WASHER - 5/16" (fender mounting)	2
17	192- 20	LOCKWASHER - 5/16" (fender mounting).	2



MODEL L-19 FLOW CONTROL VALVE KIT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23618	VALVE - flow control	1
2	C 36848	LEVER - valve	1
3	C 28251	KNOB - lever	1
4	113- 12	BOLT - 1/4" x 2-1/2" NC hex	2
5	131- 1115	NUT - lock 1/4" NC hex	2
6	218- 485	FITTING - elbow 90° 1/2" NPT	2
7	C 45431	FITTING - straight 1/2" NPT.....	1
8	C 25390	TUBE - flow control valve to tube	1
9	C 23407	TUBE - bypass to return line	1
10	C 23600	TUBE - valve to tractor valve	1
11	NLA	TUBE - heat exchanger.....	1
12	C 36849	HOSE - return	1
13	214- 6	CLAMP - hose	2
14	C 23879	TUBE - PTO valve to tube	1
15	C 21592	SPACER	2
	C 18719	DECAL - valve, "slow - fast"	1

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
A 7982	45	4	C15556	27	11	G19661	49	1
A35690	43	8	C15557	27	8	C19767	25	15
C10898	63	4	C15557	27B	8	C19867	25	12
C11529	23	5	C16128	59	20	C20036	25	7
C11529	39	16	C16164	37	21	C20053	25	18
C11886	71	15	C16239	51	9	C20093	25	5
C11891	71	2	C16339	47	22	C20204	9	16
C11892	71	14	C16362	29	12	C20204	9B	16
C11893	71	12	C16363	23	4	C20205	9	16
C11895	71	9	C16373	29	24	C20205	9B	16
C11901	71	13	C16393	31	17	C20215	9	19
C12552	47	26	C16404	31	2	C20215	9B	19
C12560	47	32	C16429	31	7	C20218	9	24
C12713	47	2	C16444	31	15	C20218	9B	24
C12718	47	36	C16445	31	15	C20219	9	25
C12723	47	9	C16516	41	1	C20219	9B	25
C12725	47	21	C16581	67	1	C20222	9	28
C12975	33	10	C16616	27	1	C20223	9	2
C12975	35	20	C16616	27B	1	C20223	9B	2
C13106	33	8	C16687	39	10	C20226	9	6
C13106	35		C16744	47	3	C20226	9B	6
C13106	37		C16786	27	13	C20229	9	8
C13106	49		C16786	27B	13	C20229	9B	8
C13196	47	16	C16796	23	7	C20233	9	11
C13200	45	12	C16945	35	1	C20233	9B	11
C13211	47	8	C17066	31	20	C20241	9	14
C13241	47	5	C17152	31	14	C20241	9B	14
C13266	47	7	C17161	67	2	C20243	11	20
C13360	45	1	C17162	67	3	C20244	11	21
C13385	47	6	C17188	61	3	C20245	11	22
C13526	37	2	C17189	61	4	C20247	11	24
C13716	33	6	C17216	31	19	C20248	11	25
C14168	47	23	C17249	49	6	C20249	11	27
C14200	35	6	C17250	49	7	C20250	11	26
C14201	35	7	C17433	45	8	C20251	11	28
C14222	47	39	C17435	45	9	C20253	11	29
C14223	47	37	C17438	45	17	C20256	11	3
C14304	55	14	C17439	45	11	C20258	11	33
C14457	63	2	C17440	45	14	C20261	5	7
C14459	63	5	C17443	45	18	C20261	11	35
C14531	47	4	C17444	45	19	C20267	11	6
C14537	53	13	C17636	67	4	C20268	11	7
C14565	53	3	C17859	67	1	C20269	11	8
C14568	61	2	C17860	67	3	C20270	11	9
C14568	63	9	C17863	67	2	C20271	11	10
C14644	47	24	C17898	39	11	C20272	11	11
C14690	23	10	C18014	35	2	C20274	17	6
C14703	59	16	C18017	35	21	C20276	11	40
C14715	59	8	C18147	37	22	C20278	17	7
C14717	59	15	C18153	29	11	C20279	11	13
C14722	59	3	C18251	49	3	C20287	11	14
C14724	59	4	C18719	71B		C20289	13	44
C14725	59	14	C18742	41	6	C20290	13	44
C14728	31	16	C18742	49	18	C20291	13	44
C14729	29	20	C18797	39	21	C20292	11	16
C14827	41	4	C18851	45		C20293	13	46
C14830	41	9	C18901	27	2	C20294	13	47
C14836	41	15	C18908	27	15	C20295	11	17
C14838	41	16	C18940	27	17	C20296	13	48
C14906	25	11	C18941	27	14	C20297	13	48
C14970	49	33	C19025	41	8	C20298	13	48
C14970	61	10	C19025	49	20	C20299	13	48
C14976	59	3	C19063	37	7	C20302	11	18
C14991	59	9	C19064	37	8	C20303	9	20
C15036	43	19	C19179	37	10	C20303	9B	20
C15096	35	16	C19250	37	1	C20305	15	2
C15389	69	10	C19251	37	11	C20307	15	4
C15410	29	14	C19378	53	11	C20309	15	6
C15410	31	9	C19422	71	5	C20310	15	7
C15515	27	7	C19423	71	18	C20312	15	9
C15515	27B	7	C19521	55		C20313	15	10

NUMERICAL INDEX

73

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C20315	15	12	C21510	45	25	C23740	27	6
C20320	15	17	C21511	45		C23740	27B	10
C20322	15	19	C21515	29	2	C23854	19	3
C20325	15	33	C21518	41	5	C23879	71B	14
C20329	15	26	C21518	49	15	C23888	69	8
C20331	15	28	C21526	33	18	C23962	69	9
C20333	17	9	C21527	33	17	C24069	55	23
C20334	17	10	C21529	33	21	C24096	37	16
C20335	17	11	C21592	71B	15	C24098	35	18
C20336	17	13	C21596	27	11	C24137	29	3
C20337	17		C21945	19	21	C24296	21	8
C20339	19	2	C21989	53	17	C24325	9B	28
C20341	19	3	C22023	29	6	C24326	9B	3
C20343	19	4	C22218	63	1	C24665	7	
C20345	19	11	C22260	9	3	C24666	7	
C20345	19	11	C22261	9	7	C24703	21	1
C20346	19	5	C22261	9B	7	C24716	53	1
C20347	19	12	C22262	9	29	C24717	53	5
C20347	19	12	C22262	9B	29	C24741	27B	2
C20359	17	1	C22278	33	5	C24803	47	4
C20360	17	2	C22316	37	19	C24804	47	3
C20361	17	3	C22500	9	26	C24809	53	4
C20364	17	19	C22500	9B	26	C24843	47	
C20369	17	4	C22568	33	19	C24903	39	20
C20371	17	6	C22573	55	13	C24927	5	28
C20372	17	8	C22618	11	5	C24929	5	30
C20375	17	12	C22619	11	36	C24938	9B	15
C20376	17	13	C22620	11	36	C24939	9B	15
C20376	17	13	C22621	11	36	C24940	9B	15
C20378	5	1	C22622	11	36	C24941	9B	15
C20390	5	4	C22631	15	1	C24943	9	5
C20393	5	17	C22632	15	3	C24943	9B	5
C20396	5	27	C22633	15	16	C24951	17	18
C20397	5	25	C22637	47	14	C24952	17	19
C20398	5	24	C22638	47	12	C24956	19	22
C20399	5	22	C22765	53	21	C24958	15	12
C20401	5	11	C22896	51	6	C24968	29	1
C20405	5	23	C22921	25	3	C25022	37	13
C20406	5	13	C22947	39	18	C25100	19	10
C20407	5	20	C22969	21	2	C25209	39	6
C20411	5	14	C22970	21	7	C25209	43	16
C20412	5	16	C22998	25	2	C25227	19	24
C20412	13	45	C23002	53	16	C25258	47	28
C20427	7	5	C23004	25	20	C25338	19	25
C20429	7	7	C23012	55	2	C25390	71B	8
C20430	7	8	C23189	39	24	C25489	21	1
C20432	7	10	C23209	57	6	C25490	21	2
C20433	7	11	C23300	5	12	C25556	31	18
C20438	7	16	C23311	9	15	C25604	23	3
C20439	7	17	C23320	15	11	C25774	9	17
C20441	7	19	C23321	15	21	C25774	9B	17
C20443	7	21	C23326	39	19	C25775	9	18
C20445	7	23	C23330	55	1	C25775	9B	18
C20446	7	24	C23337	69	5	C25784	39	12
C20447	7	25	C23407	71B	9	C25789	63	5
C20450	7	28	C23527	29	5	C25845	19	20
C20451	7		C23558	51	10	C26188	49	25
C20452	7		C23559	51	11	C26188	59	2
C20455	43	15	C23577	51	1	C26202	5	5
C20456	43	2	C23578	51	2	C26255	21	9
C20457	43	3	C23580	21	10	C26255	39	1
C20460	43	4	C23581	21	9	C26266	71	27
C20462	43	6	C23583	53	8	C26342	47	15
C20464	43	12	C23584	53	9	C26381	37	17
C20468	21	13	C23586	53	2	C26431	45	13
C20471	13	40	C23618	71B	1	C26455	51	3
C20574	11	31	C23624	27B	16	C2703	5	21
C20574	15	29	C23625	27B	18	C26932	57	10
C21506	45	22	C23627	27B	15	C27031	27	3
C21507	45	7	C23630	27B	17	C27031	27B	3
C21508	45	24	C23686	21	12	C27152	27B	

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
C27481	57	7	C29976	13	43	113-	1	21 3
C27507	5	2	C29977	13	43	113-	1	47 20
C27508	29	8	C29978	13	43	113-	1	51 3
C27593	41	2	C29979	11	32	113-	1	51 4
C27593	49	12	C29981	13		113-	1	55 5
C27755	37	15	C29982	13		113-	1	55 16
C27763	37	2	C29984	15	13	113-	3	21 8
C27822	41	4	C29990	19		113-	7	5 9
C27822	49	16	C29991	19	6	113-	12	71B 4
C28033	21	6	C29992	19	8	113-	65	5 9
C28034	21	7	C29992	19	13	113-	102	15 30
C28222	59	13	C30912	37	3	113-	102	35 11
C28226	33	11	C30917	37	1	113-	102	69 12
C28237	25	1	C31045	27	9	113-	103	17 23
C28237	41	1	C31045	27B	9	113-	103	69 15
C28237	49	11	C32169	27	12	113-	110	5 6
C28237	71	26	C32169	27B	12	113-	118	51 2
C28240	25	8	C32178	53	15	113-	118	59 10
C28241	47	18	C32178	55		113-	121	5 6
C28251	71B	3	C32199	43	20	113-	122	31 11
C28281	47	8	C32299	19	17	113-	132	11 38
C28315	9	23	C32376	5	15	113-	204	13 49
C28315	9B	23	C32407	53	20	113-	206	35 13
C28487	49	34	C32426	59	17	113-	206	39 2
C28487	61	11	C32427	59	18	113-	206	69 6
C28677	27	16	C32462	15	27	113-	207	25 19
C28677	27B	6	C32463	9	21	113-	207	39 3
C28696	71	25	C32463	9B	21	113-	207	49 8
C28697	49	35	C32469	9	10	113-	207	49 21
C28697	61	12	C32469	9B	10	113-	207	67 6
C28698	71	22	C33234	39	35	113-	219	29 16
C28699	45	1	C33309	35	12	113-	321	9 22
C28700	71	20	C33411	23	1	113-	321	9B 22
C28703	41	11	C33417	47	38	113-	410	63 6
C28716	71	21	C33589	57	9	113-	417	59 5
C28719	17	5	C36848	71B	2	113-	417	67 4
C28875	71	4	C36849	71B	12	113-	424	29 22
C28927	43	9	C36935	47	17	113-	424	31 4
C28932	55	15	C37222	47	22	113-	424	45 3
C28937	23	3	C40687	33	1	113-	424	47 40
C28949	39	34	C41010	53	18	113-	425	61 3
C28962	23	2	C42852	47	42	113-	441	31 3
C28965	37	8	C44478	37	7	113-	443	67 5
C28968	21	3	C44499	37	5	121-	3	17 15
C28980	39	5	C45431	71B	7	121-	106	31 13
C28985	59	12	D58188	43	11	121-	106	51 7
C29031	57	4	D58189	43	14	126-	9	9 9
C29408	49	10	013-	416	15	126-	9	9B 9
C29413	53	14	013-	424	43	126-	13	9 1
C29697	39	14	013-	514	29	126-	13	9B 1
C29697	39	25	013-	528	15	126-	16	35 17
C29732	41		013-	620	11	126-	128	47 13
C29733	17	22	022-	844	63	129-	17	23 7
C29734	15	20	025-	108	67	129-	27	55 19
C29735	27	10	028-	680	47	129-	37	55 22
C29735	27B	11	041-	26	11	129-	101	5 19
C29736	19	9	071-	410	71	129-	101	21 5
C29739	9B	15	075-	48	71	129-	101	23 9
C29750	9	16	092-	5	5	129-	101	51 4
C29750	9B	16	092-	5	17	129-	101	51 5
C29751	9	16	092-	8	65	129-	101	55 7
C29751	9B	16	095-	4	71	129-	102	11 37
C29754	13	41	111-	5	23	129-	102	21 6
C29754	19	19	111-	108	55	129-	102	51 8
C29755	13	42	111-	131	55	129-	102	55 11
C29948	5	29	111-	202	55	129-	102	69 13
C29953	5	3	111-	256	21	129-	103	67 7
C29972	9	13	111-	317	67	129-	105	63 10
C29972	9B	13	111-	530	65	129-	105	65 5
C29974	11	15	111-	531	65	129-	122	41 7
C29975	13	43	113-	1	5	129-	122	49 19

NUMERICAL INDEX

75

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
129- 122	55	17	192- 19	5	10	218-5007	39	33
129- 125	27B	14	192- 19	15	24	218-5056	49	27
129- 165	33	15	192- 19	17	16	218-5062	39	32
129- 365	33	16	192- 19	17	8	218-5065	39	8
129- 531	45	10	192- 19	19	14	218-5107	39	26
131- 67	25	22	192- 19	19	8	218-5232	69	14
131- 164	37	20	192- 19	21	4	219- 17	33	20
131- 176	39	31	192- 19	47	19	219- 403	37	4
131- 176	59	11	192- 19	51	5	219- 404	33	7
131- 178	25	16	192- 19	51	6	219- 404	35	19
131- 178	31	21	192- 19	55	6	219- 404	49	2
131- 356	35	3	192- 19	71	7	219- 405	59	2
131- 629	55	3	192- 20	21	5	221- 4	47	10
131-1102	71B	5	192- 20	29	19	221- 5	15	8
131-1112	35	8	192- 20	35	10	221- 841	45	21
131-1129	37	4	192- 20	55	18	221- 842	71	19
131-1133	47	35	192- 20	69	17	221- 844	15	15
131-1181	29	9	192- 21	11	12	221- 849	43	10
131-1181	37	5	192- 21	15	22	221-1139	61	1
131-1181	49	9	192- 21	35	14	221-1190	15	34
131-1181	49	22	192- 21	39	4	221-1375	61	2
131-1318	29	7	192- 21	67	8	221-1377	15	35
132- 91	25	9	192- 21	69	7	223- 31	53	6
132- 91	59	6	192- 23	29	21	321-2500	57	2
132- 306	63	12	192- 23	31	5	321-2658	57	5
132- 310	25	10	192- 23	33	14	321-3585	57	3
132- 310	37	3	192- 23	45	2	321-4153	57	14
132- 310	49	4	192- 23	47	41	321-4155	57	12
132- 310	59	4	192- 23	63	7	321-4156	57	13
132- 311	33	9	192- 23	67	7	321-4166	57	11
132- 320	41	10	193- 57	55	9	353- 442	25	13
132- 320	49	13	193- 76	27	5	353- 462	25	4
132- 321	37	9	193- 76	27B	5			
132- 329	71	3	195- 104	25	17			
132- 334	29	13	195- 104	37	6			
136- 2	17	10	195- 104	39	36			
138- 59	59	19	195- 104	49	23			
138- 96	25	6	195- 513	19	2			
138- 99	33	4	195- 521	41	9			
138- 308	59	5	195- 521	49	17			
138- 319	29	23	195- 521	69	16			
138- 319	37	18	195- 525	29	10			
138- 319	47	11	195- 525	67	9			
138-2072	41	11	195- 533	49	14			
141- 4	37	12	195- 533	67	8			
163- 22	17	21	195- 541	59	7			
163- 24	25	21	195- 541	63	3			
164- 41	27	4	195- 545	63	11			
164- 41	27B	4	195-2021	31	10			
165- 143	19	13	195-2021	35	9			
165- 143	19	7	195-2027	17	17			
166- 86	39	29	195-2029	29	15			
166- 86	47	40	195-2069	35	15			
169- 74	17	11	211- 7	45	16			
169- 88	71	17	211- 11	71	23			
169- 114	45	20	211- 208	45	6			
171- 247	39	30	211- 216	9	4			
173- 215	23	8	211- 216	9B	4			
173- 219	19	23	213- 41	37	14			
182- 84	15	5	214- 6	71B	13			
182- 525	5	26	214- 103	23	11			
182- 528	55	21	214- 254	39	13			
182- 547	9	27	214- 258	19	15			
182- 547	9B	27	214- 272	21	11			
187-1252	51	9	218- 457	69	2			
187-1334	55	4	218- 485	71B	6			
187-1910	33	12	218- 494	69	3			
192- 16	19	7	218- 927	69	4			
192- 16	19	5	218-5006	3	92			
192- 18	23	6	218-5007	39	9			
192- 18	55	20	218-5007	39	27			



1. $\frac{1}{2}$

