

Chassis

S/N 9742305

Onan 16 HP

D77 3249501

446-77



Ingersoll

COMPACT TRACTOR

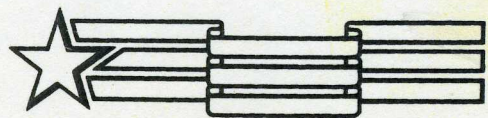
MODEL 446

S/N 9728158 TO 9742953

Parts Catalog B1298

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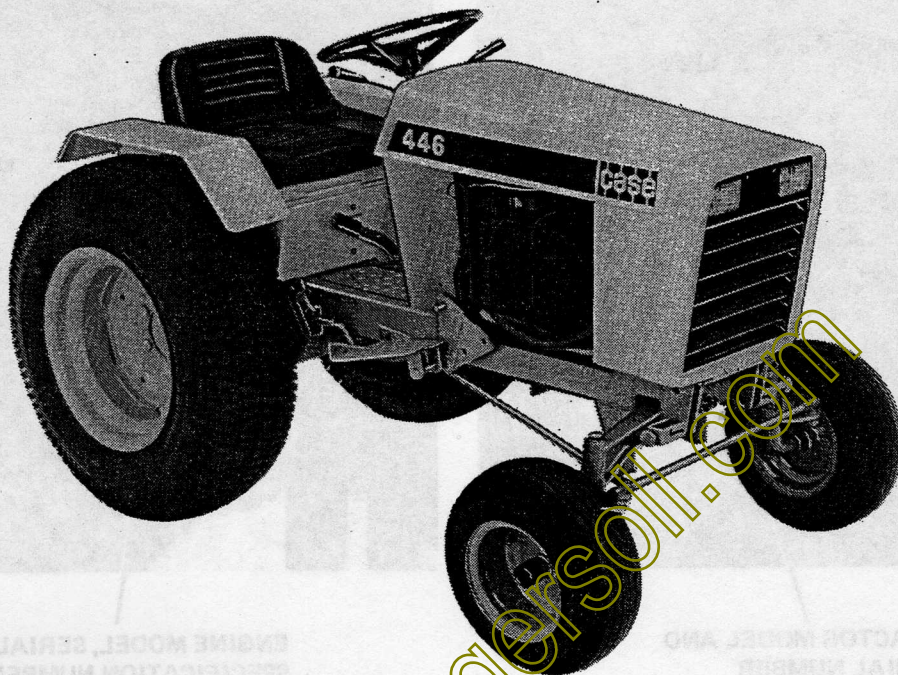
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**COMPACT TRACTOR
MODEL 446
S/N 9728158 TO 9742953
Parts Catalog B1298**

NOTE: This catalog
replaces A1298



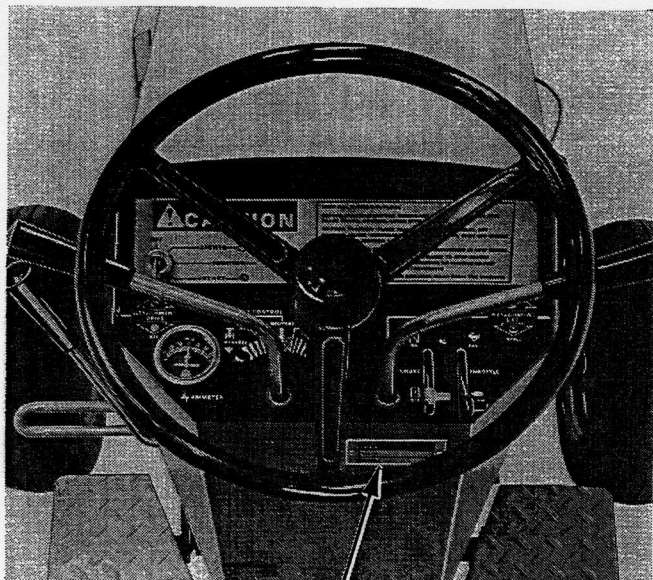
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CASE 446 COMPACT TRACTOR



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

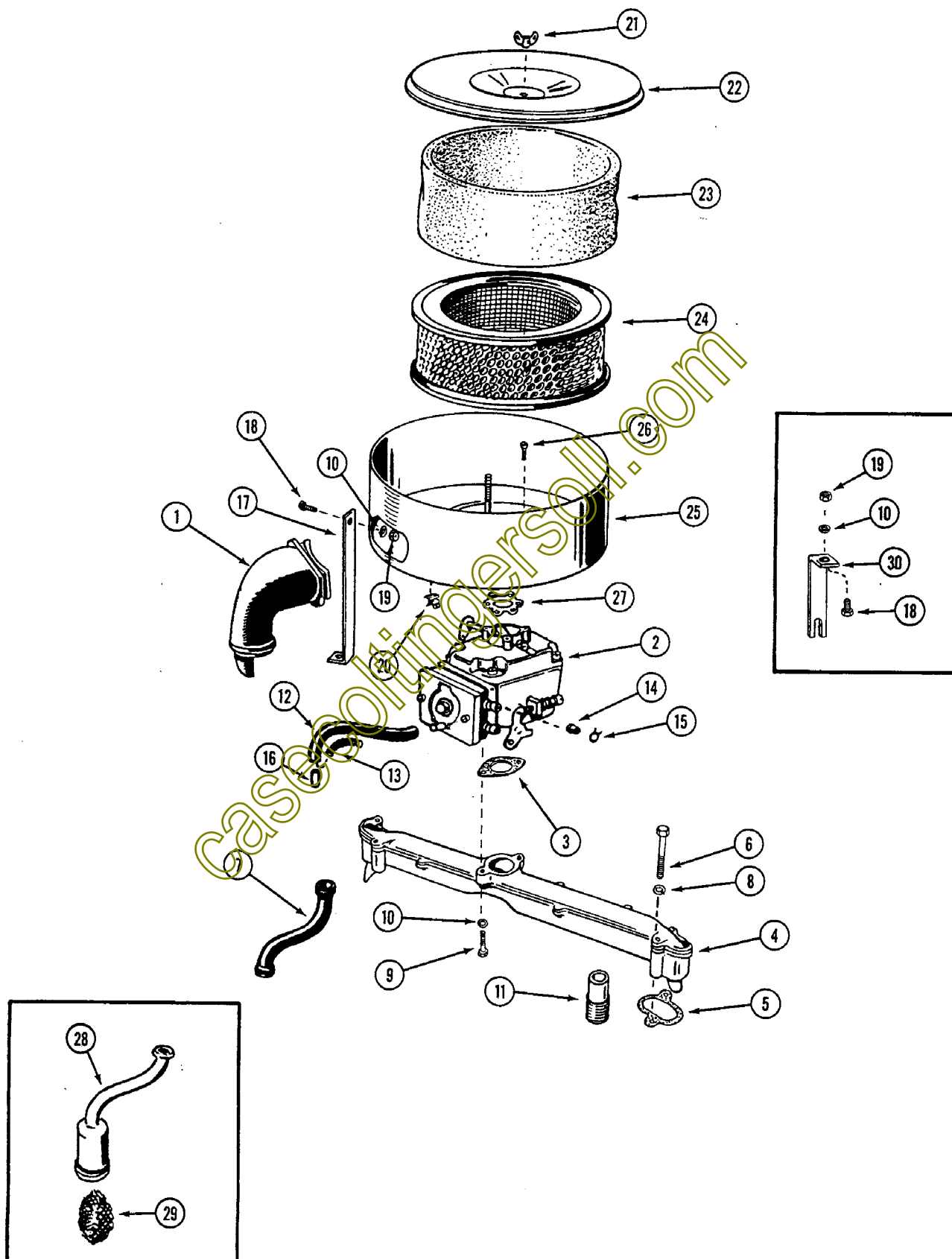
Indented parts in the descriptive list are a part of the preceding assembly or sub-assembly.

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.



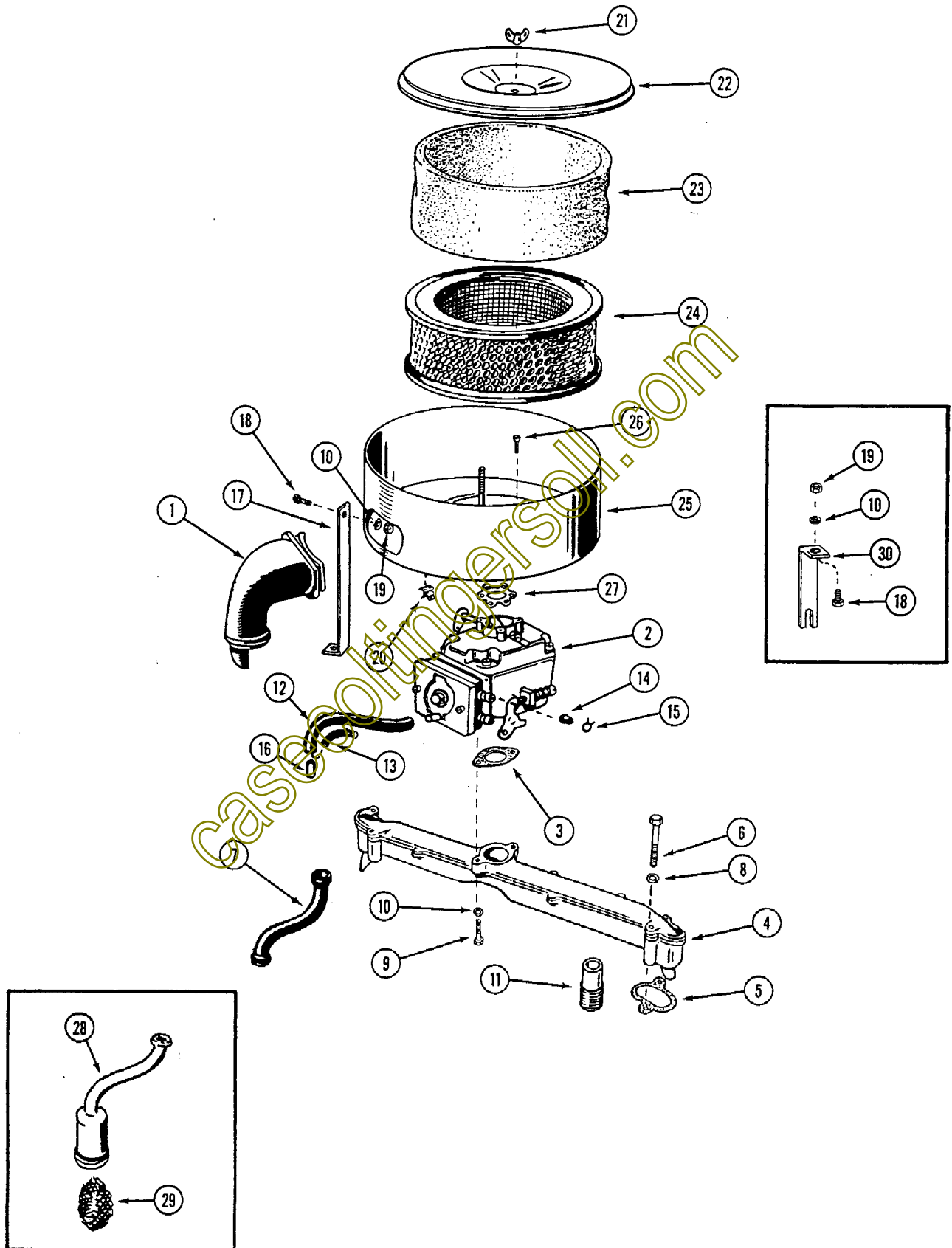
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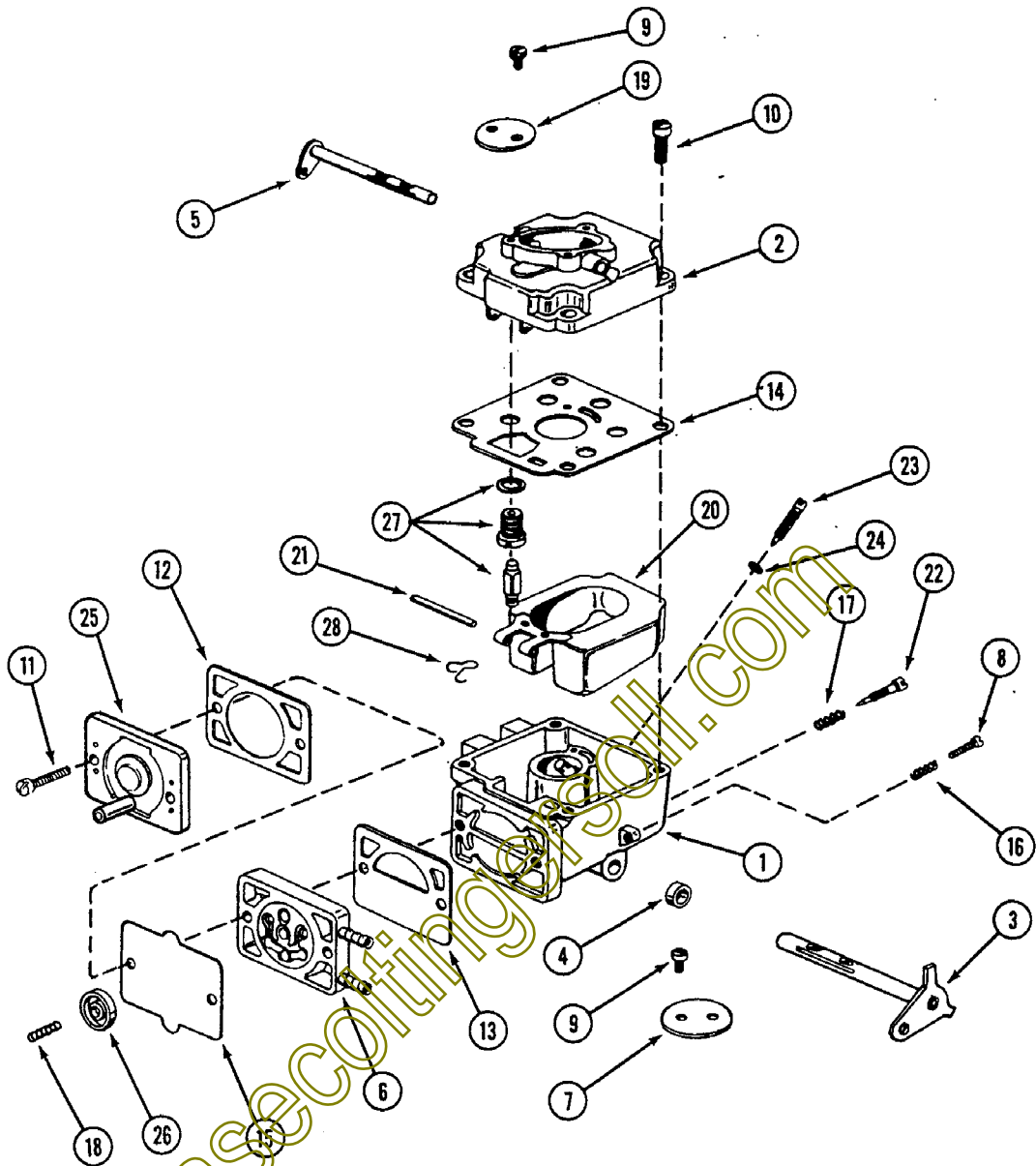
BASIC TRACTOR SECTION

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CARBURETOR, AIR FILTER AND MANIFOLD

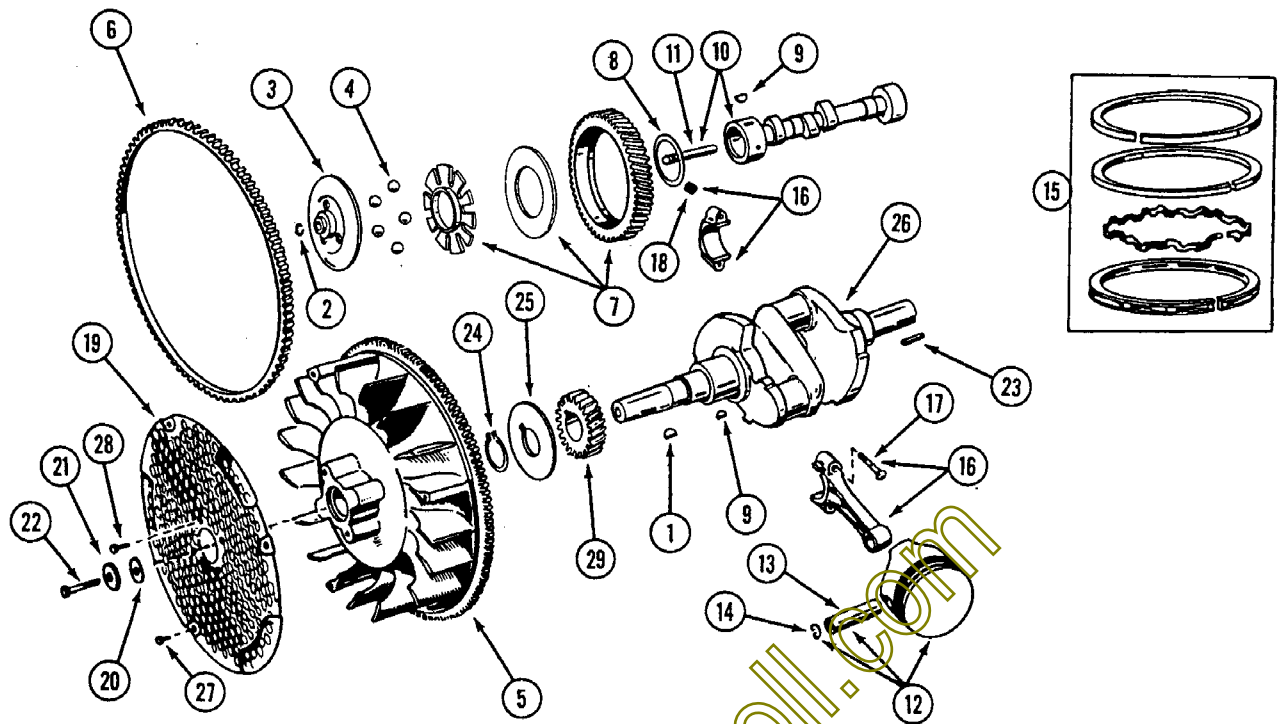
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 20387	TUBE - air intake	1
2	C 27507	CARBURETOR AND FUEL PUMP ASSEMBLY - (repairs page 7)	1
3	C 20389	GASKET - carburetor mtg.	1
4	C 20390	MANIFOLD - engine intake	1
5	C 26202	GASKET - intake manifold	2
6	13- 536	BOLT - manifold 5/16" x 2-1/4" (for BF-MS engine)	4
6	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



**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

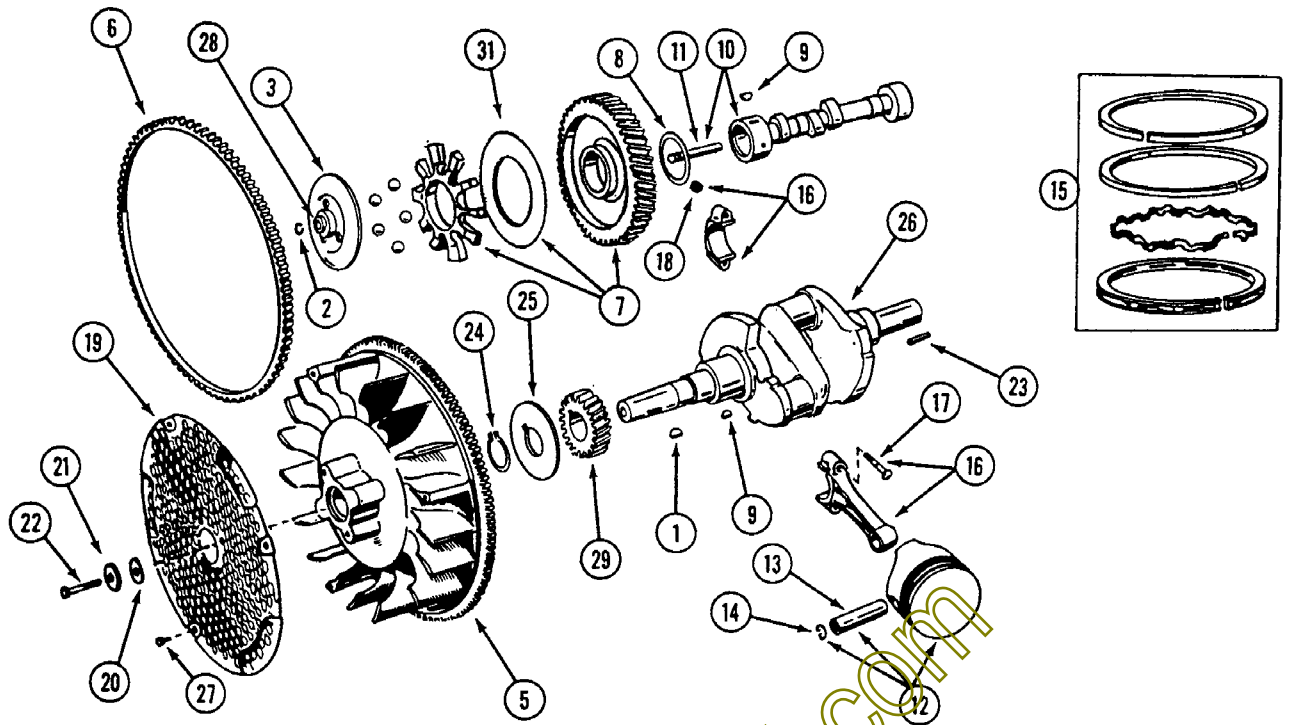


PISTON, CRANKSHAFT, FLYWHEEL AND CAMSHAFT (BF-MS ENGINE)

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 26315	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.

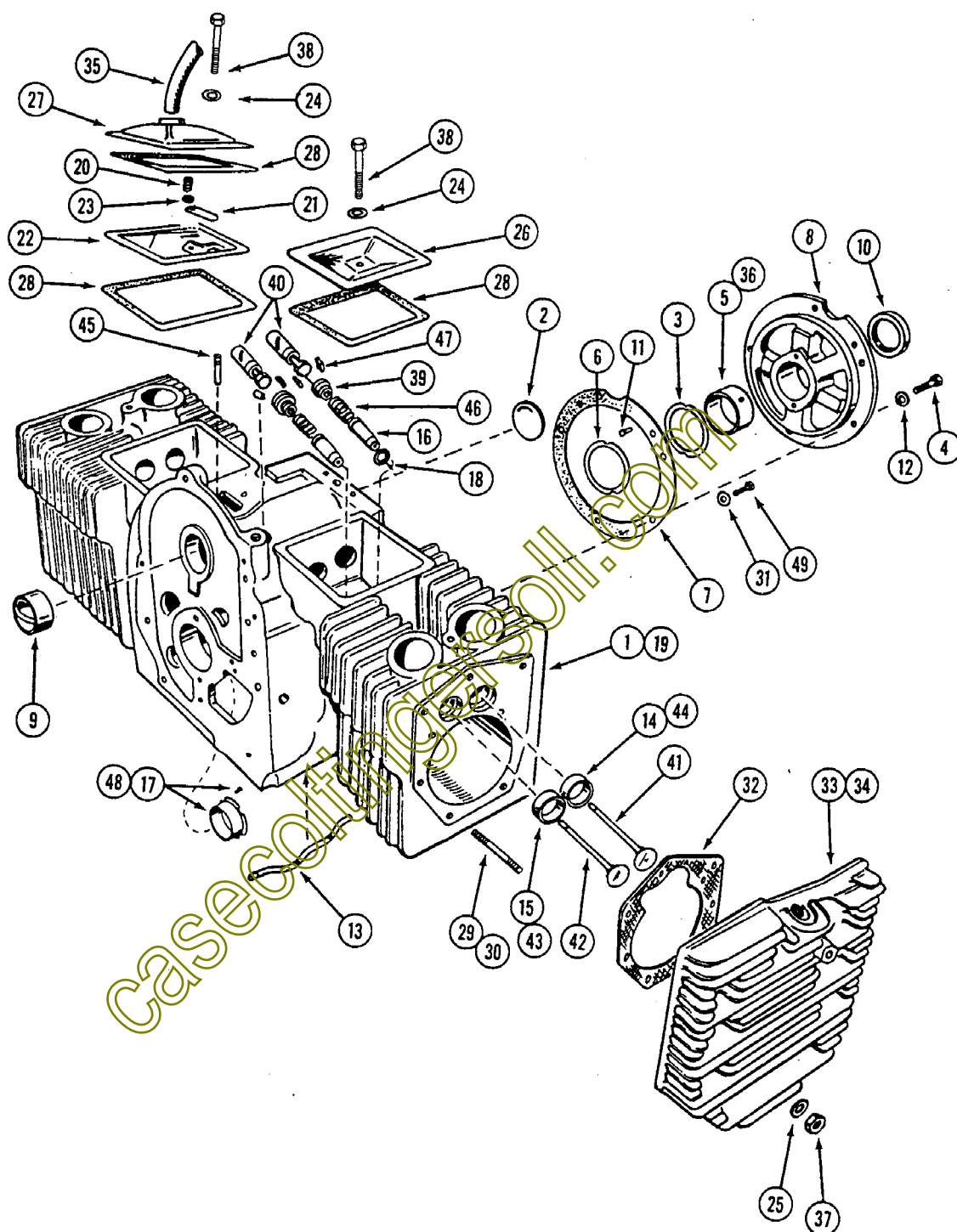
Must use C40929 short block and C33098, C29981



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

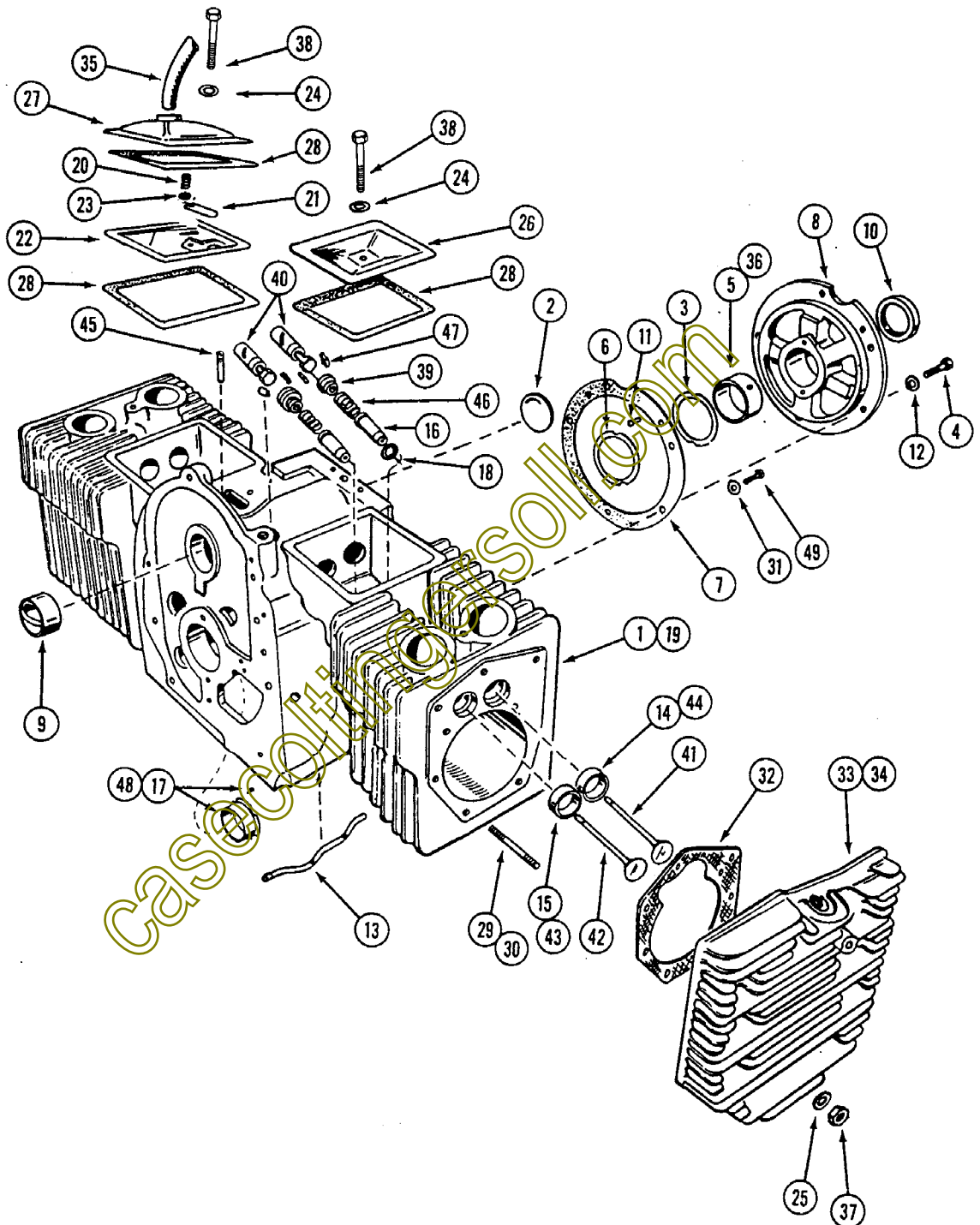
* When current supply is gone this piston will sub to piston and rings assembly. The ring sets in this catalog can not be used with the new piston assemblies.



ENGINE BLOCK AND ATTACHING PARTS

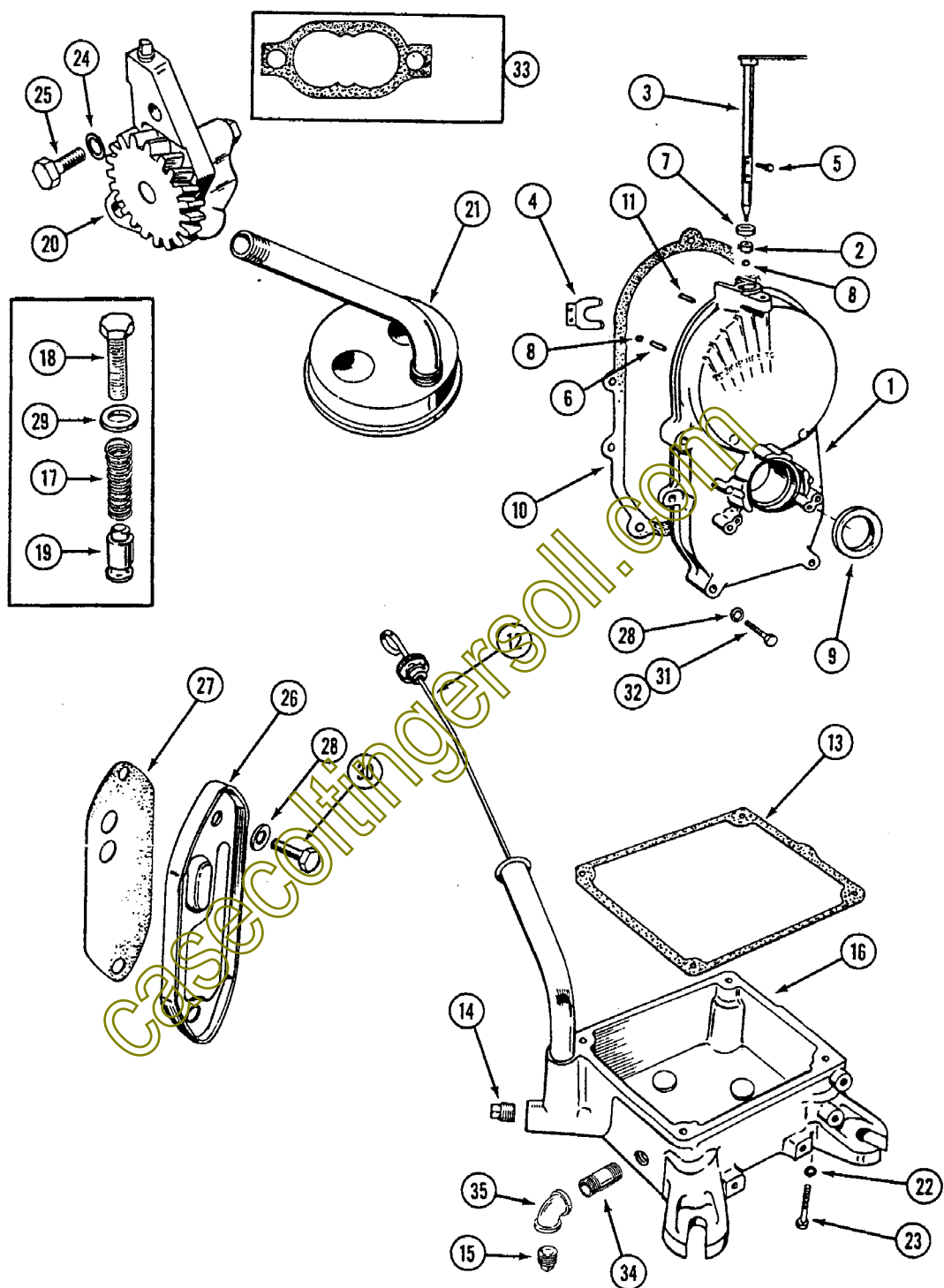
REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	BLOCK ASSEMBLY - cylinder, standard bore (for B43M engine).....	1
1	NSS	BLOCK ASSEMBLY - cylinder, standard bore (for BF-MS engine).....	1
2	41- 26	PLUG - camshaft expansion.....	1
3	C 20256	SHIM - rear bearing plate (.005").....	UAR 5
4	13- 620	BOLT - 3/8" x 1-1/4" 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



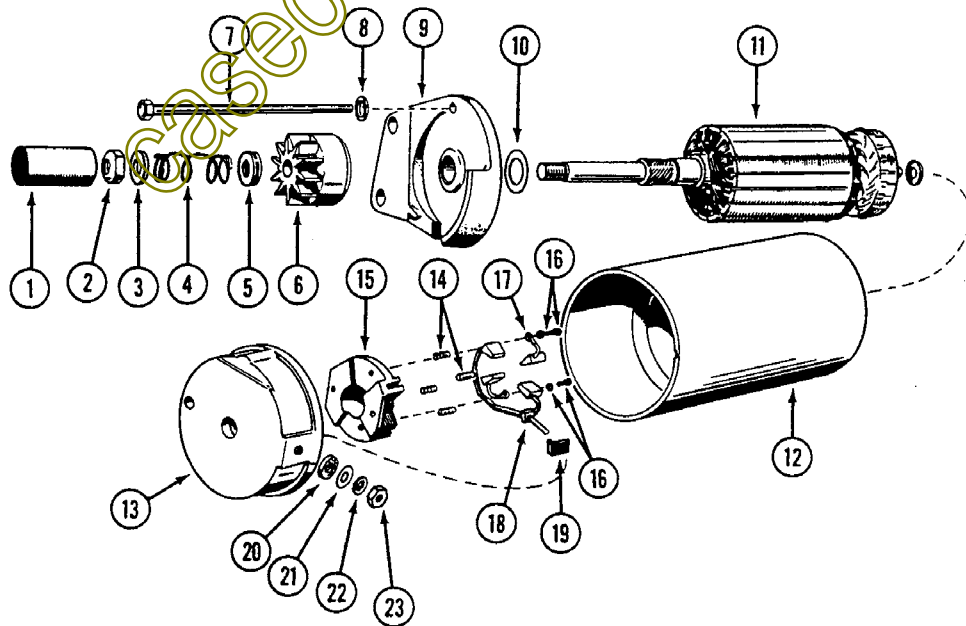
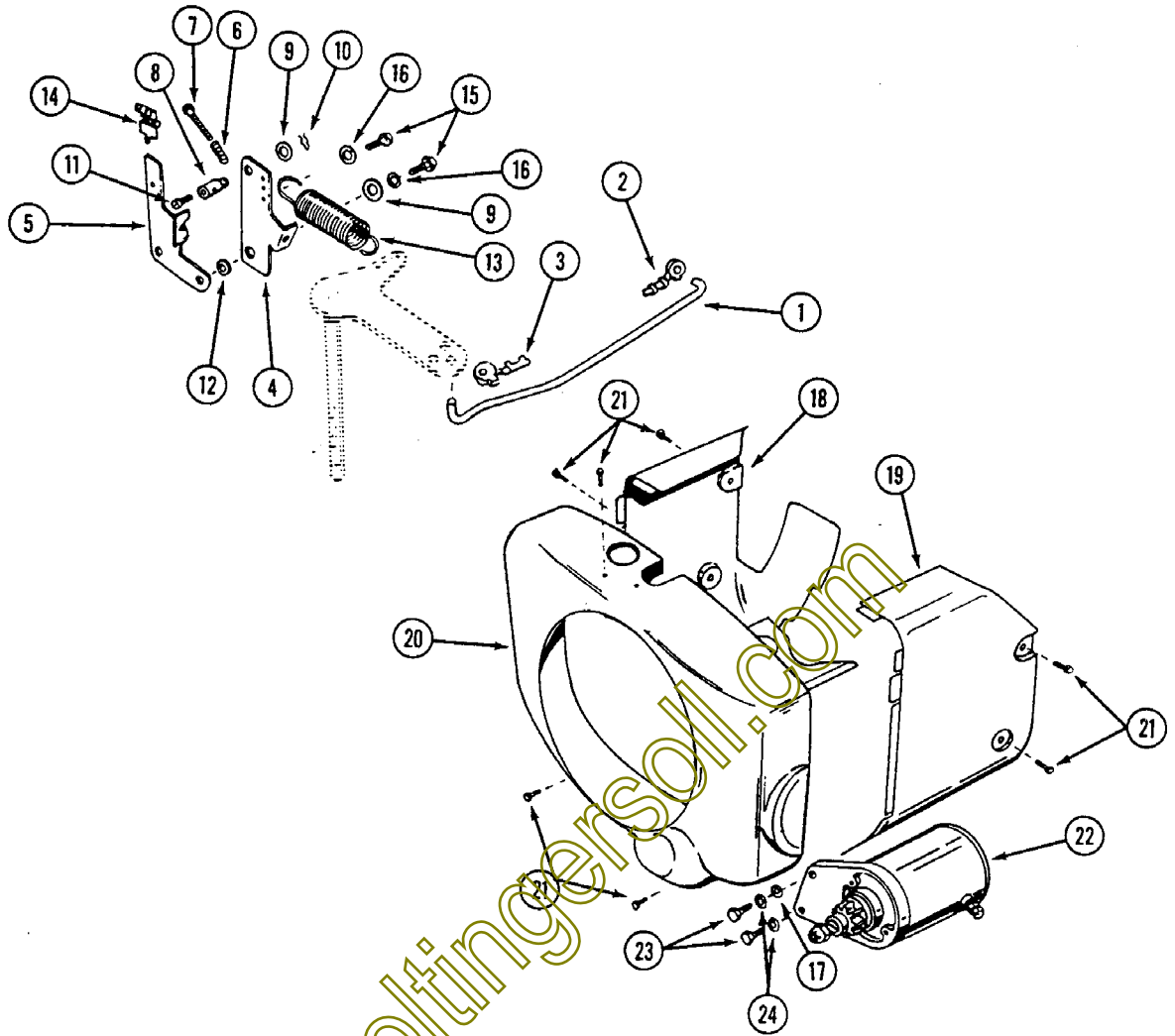
ENGINE BLOCK AND ATTACHING PARTS

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

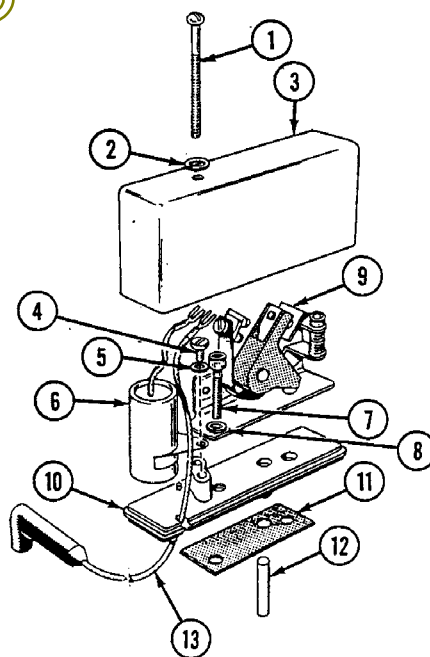
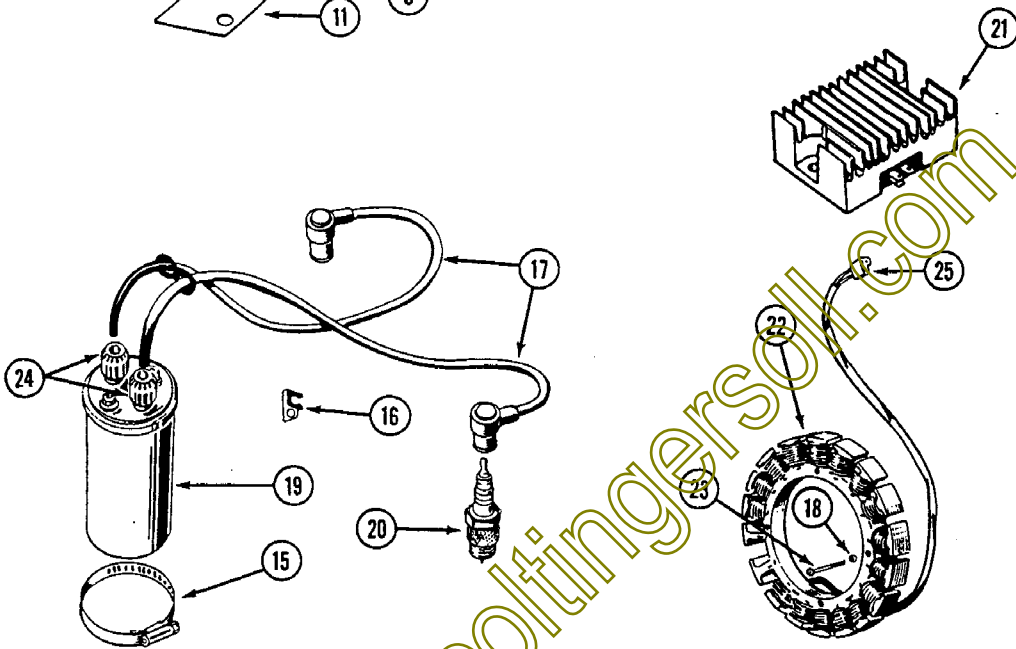
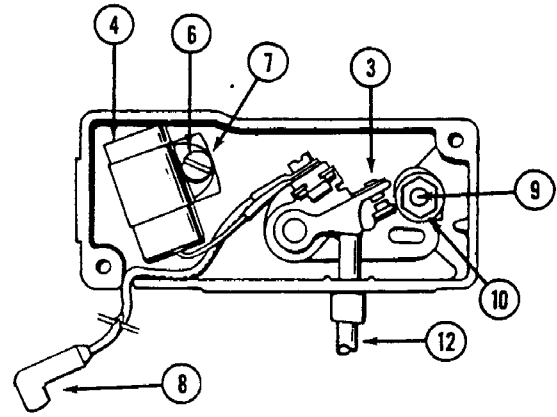
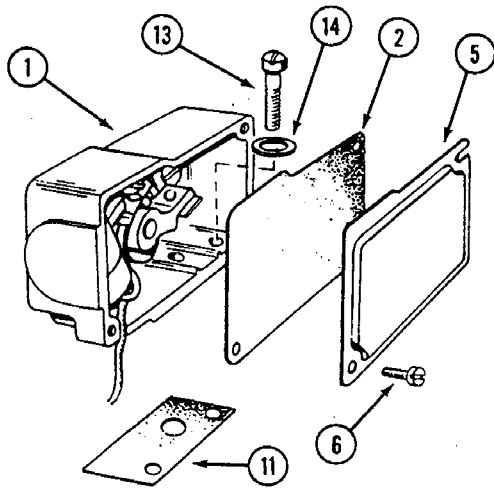


GOVERNOR AND BLOWER HOUSING

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

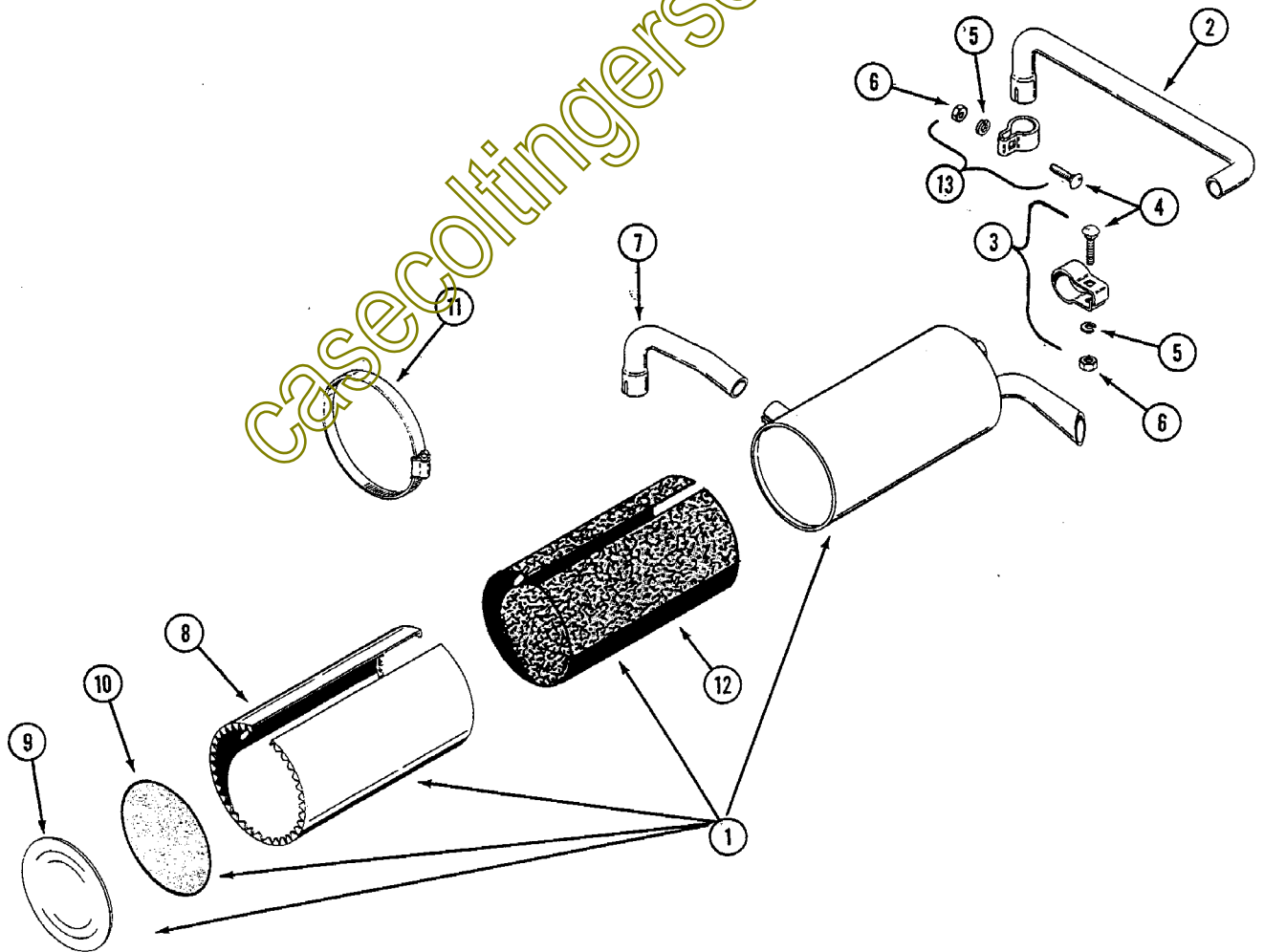
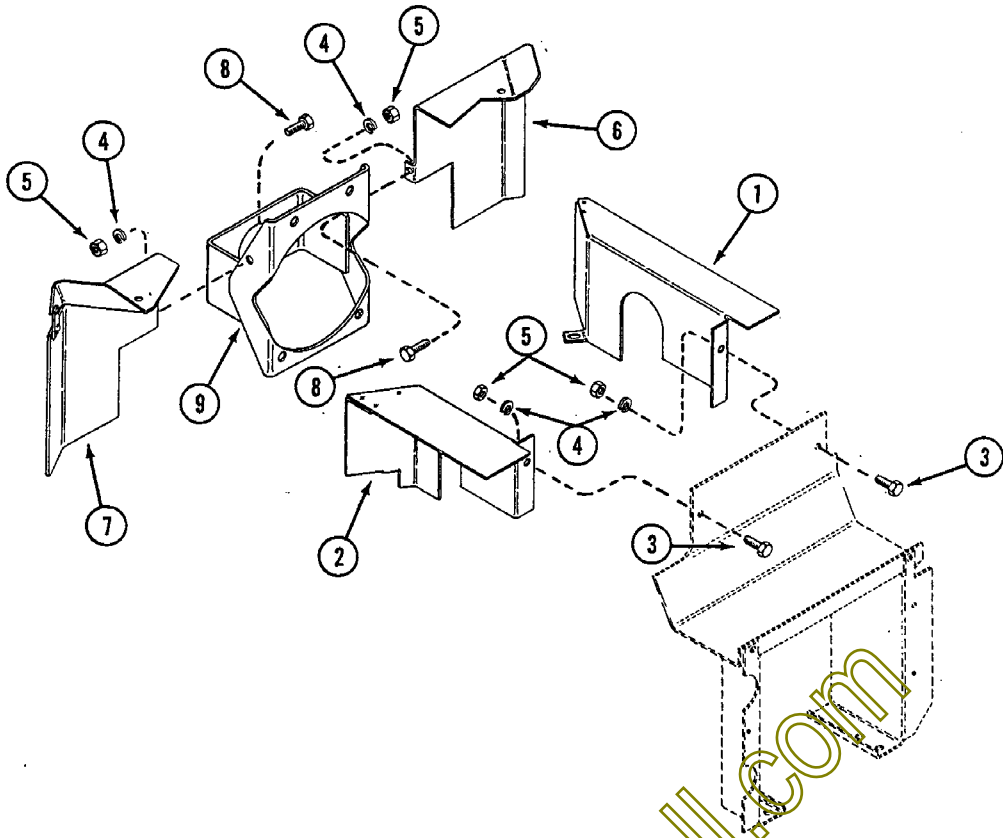


IGNITION AND CHARGING SYSTEMS

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

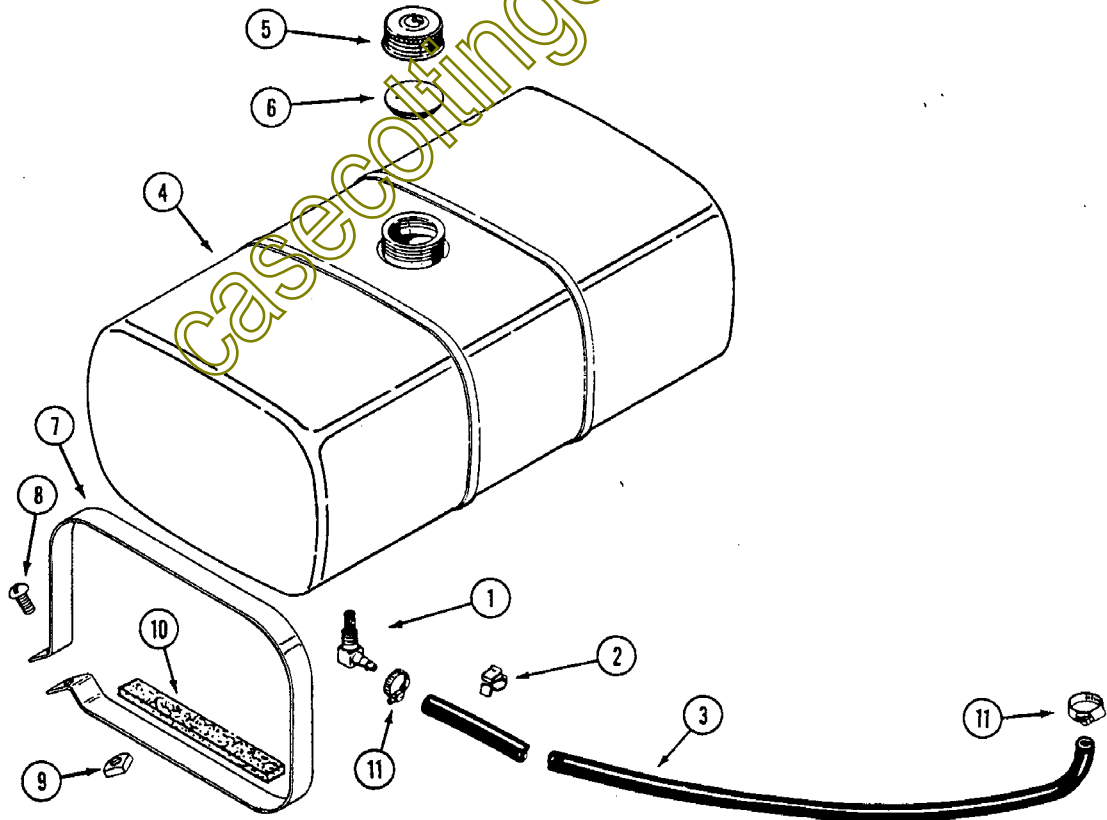
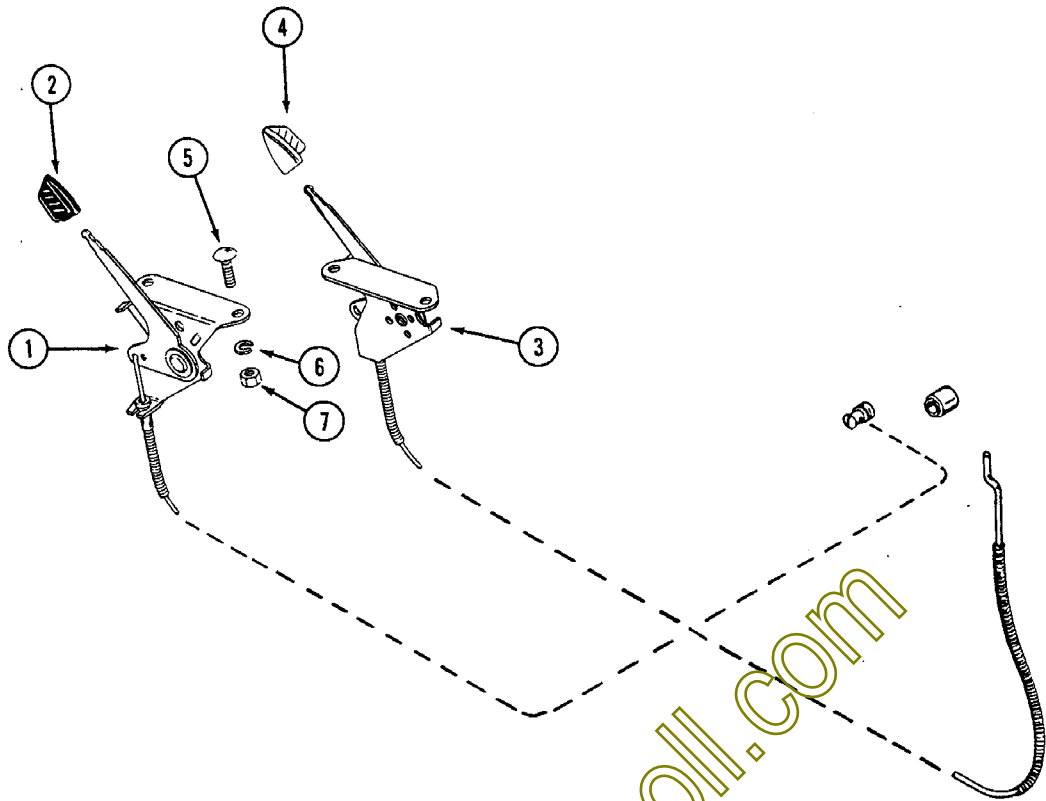


HEAT SHIELDS AND ENGINE BAFFLES

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

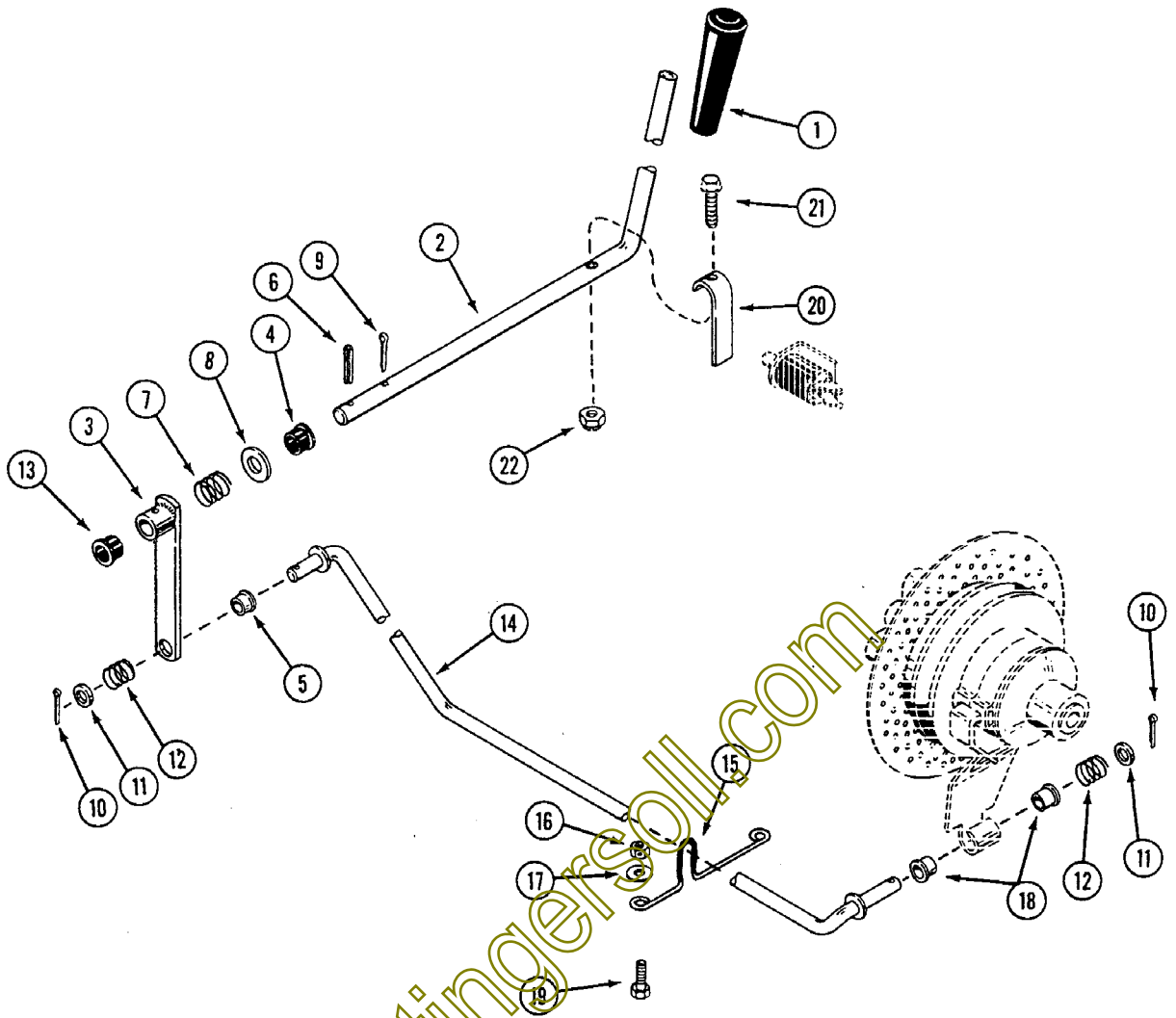


CHOKE AND THROTTLE

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

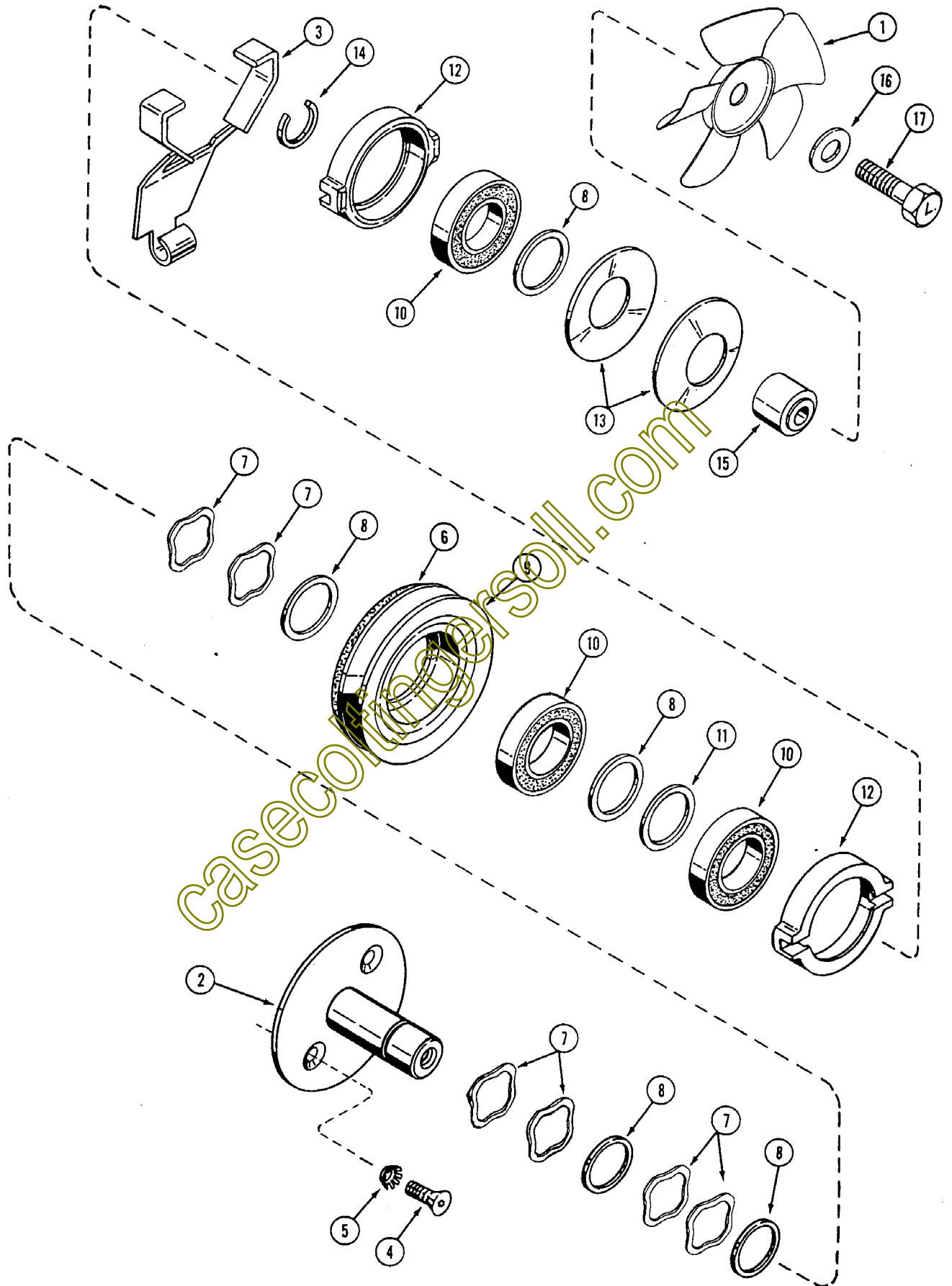
FUEL SYSTEM

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

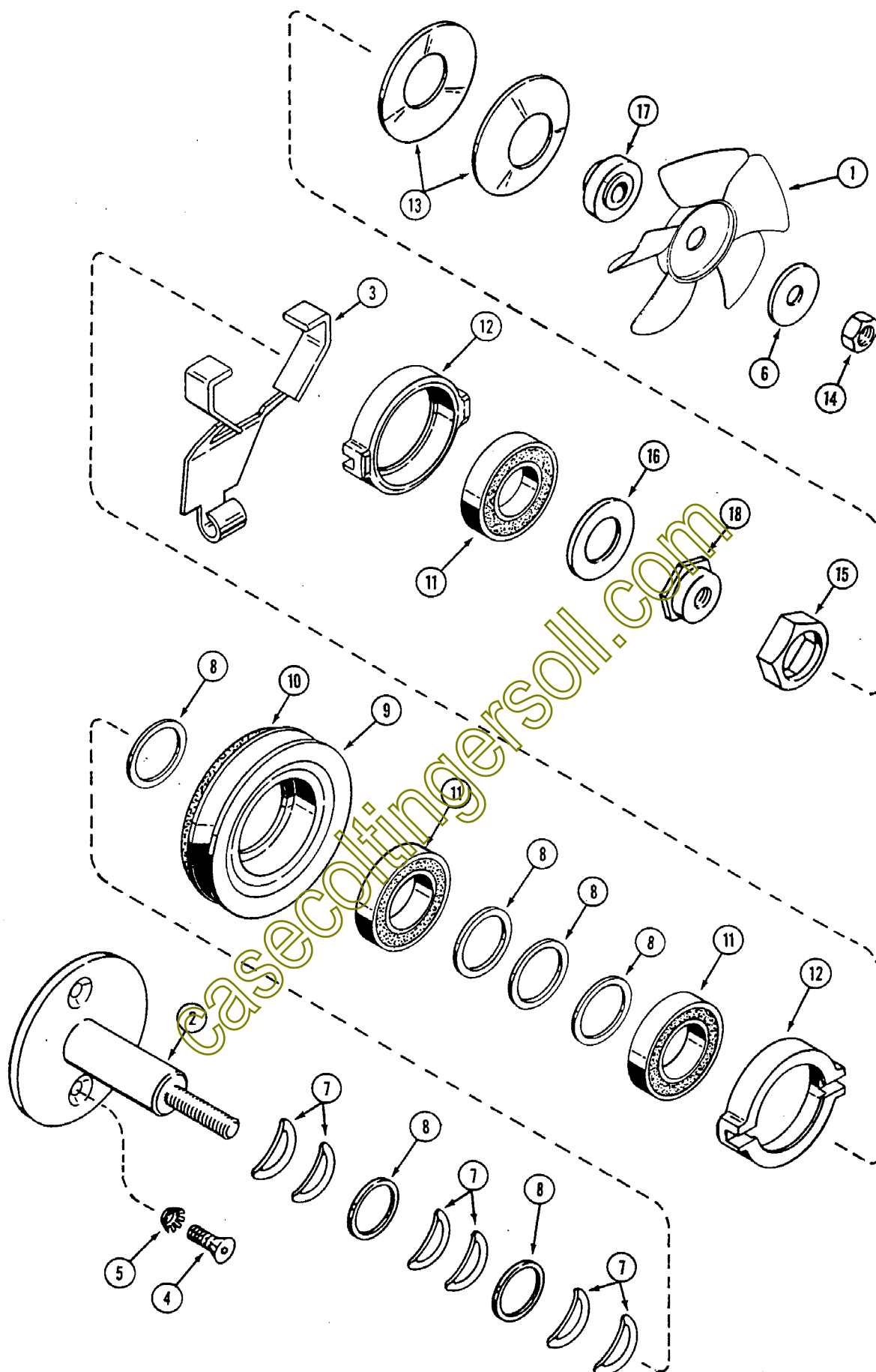
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 28237	KNOB - lever, PTO	1
2	C 22998	LEVER - PTO engaging	1
3	C 22921	ARM ASSEMBLY - PTO	1
4	353- 462	BUSHING - lever, dash tower	1
5	C 20093	BUSHING - fliplock	1
6	138- 96	PIN - roll 3/16" x 1"	1
7	C 20036	SPRING - lever, PTO	1
8	C 28240	WASHER - nylon	1
9	132- 91	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)

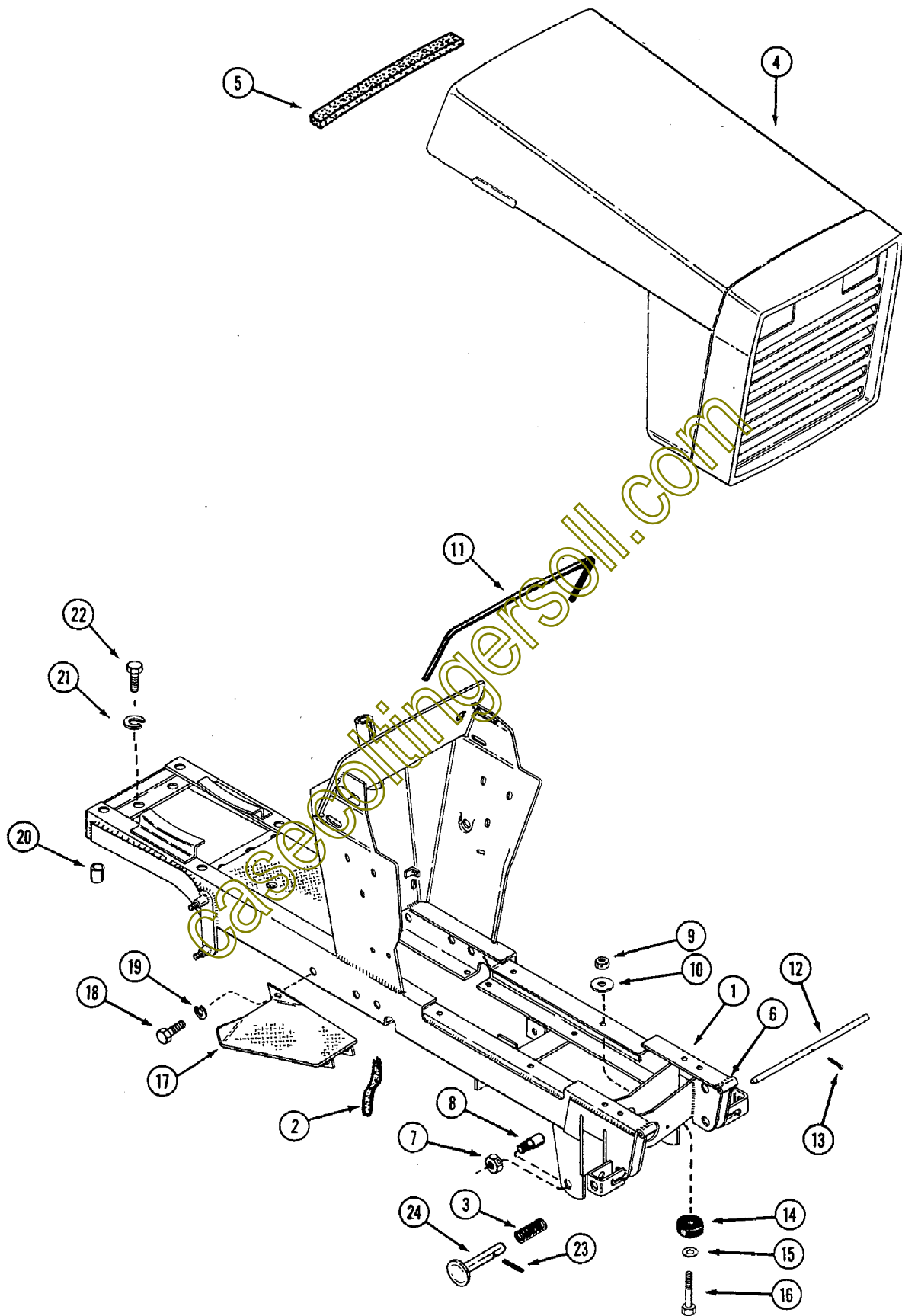
(See page 27B for service clutch)

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



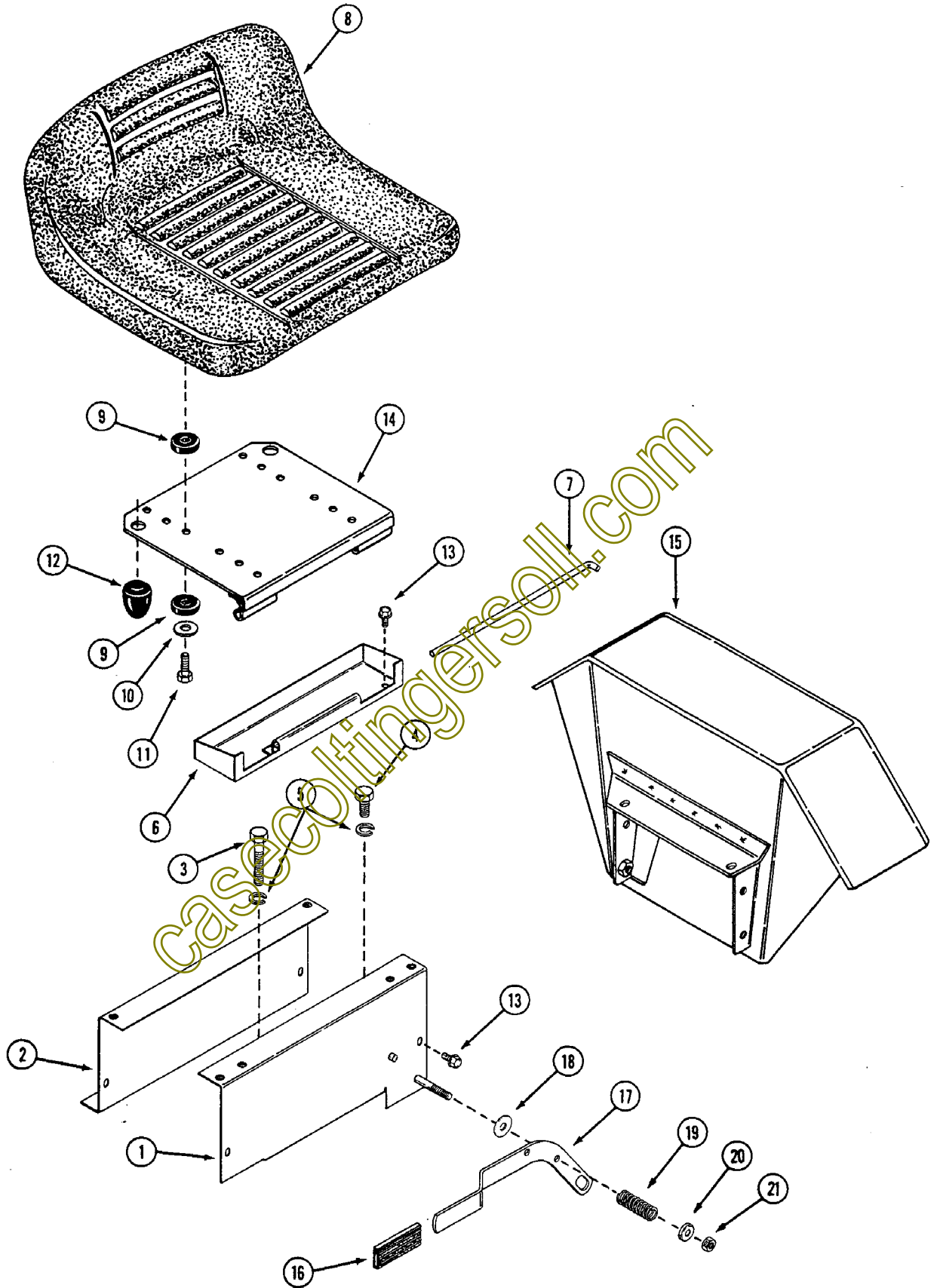
C24783 CLUTCH ASSEMBLY (PTO)**(For Service)**

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

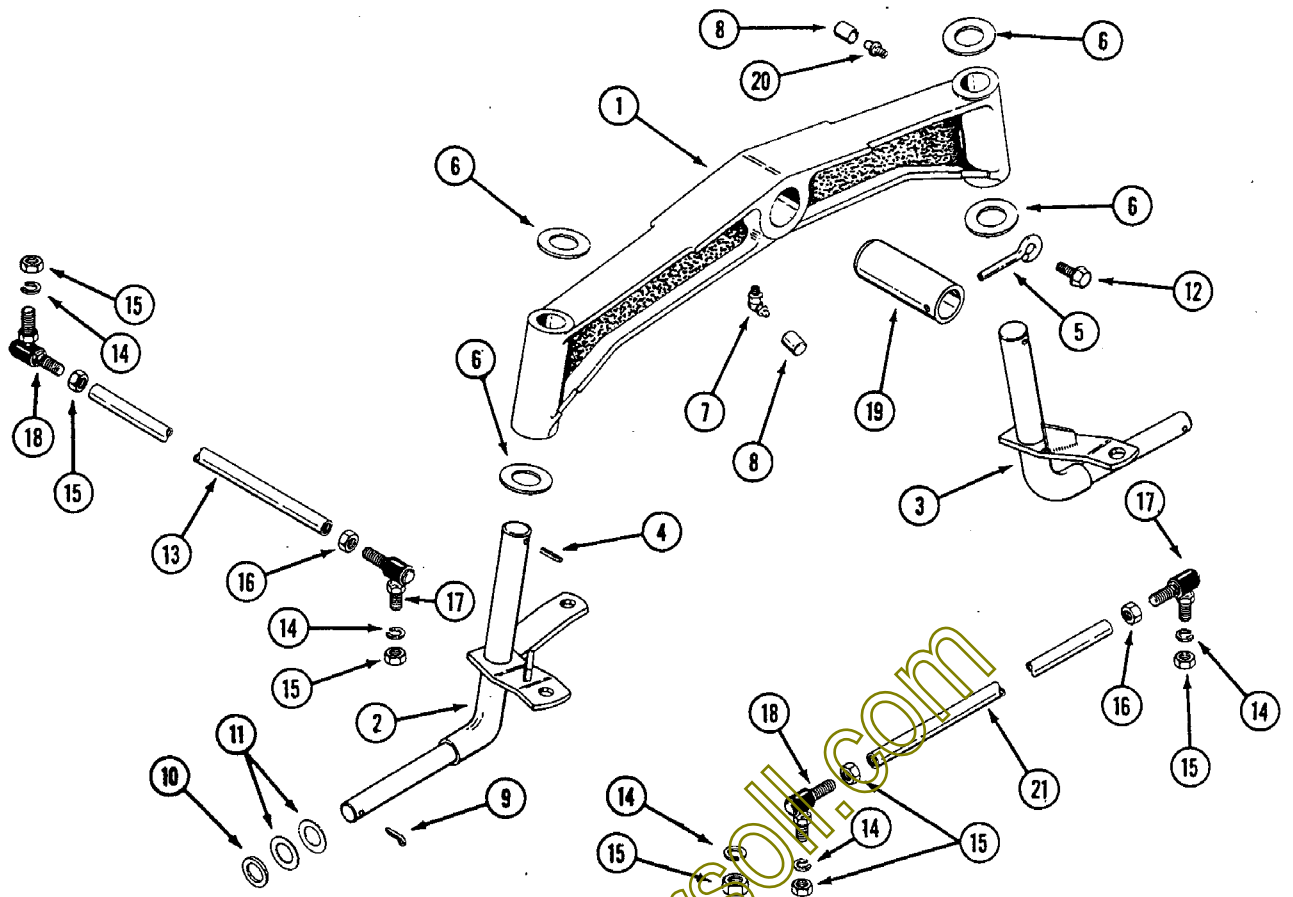


SEAT, FENDERS AND TOOL TRAY

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

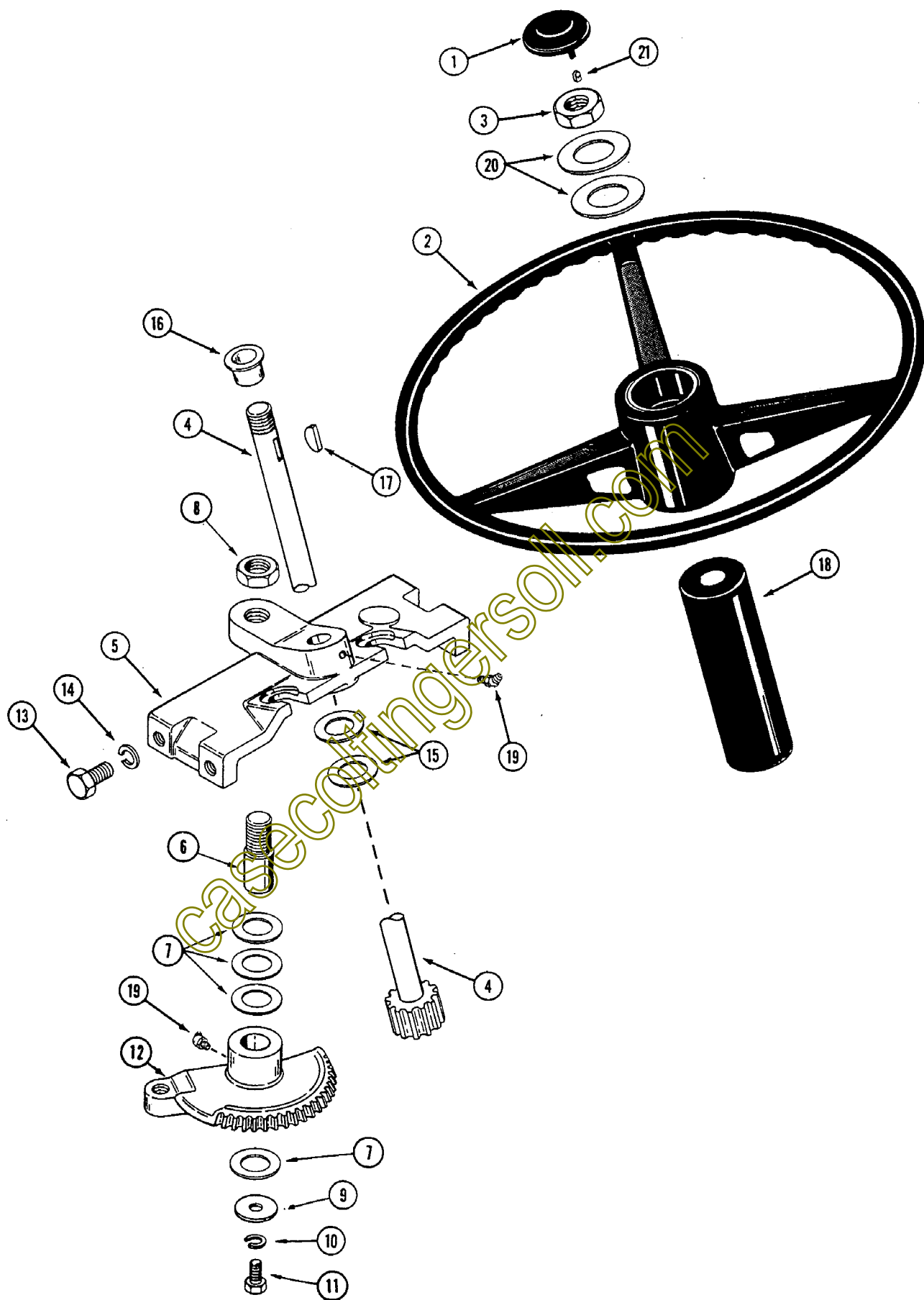
* Use C31004, C33474, and 2 each of C29306, C29305, 113-102, 131-911

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



FRONT AXLE

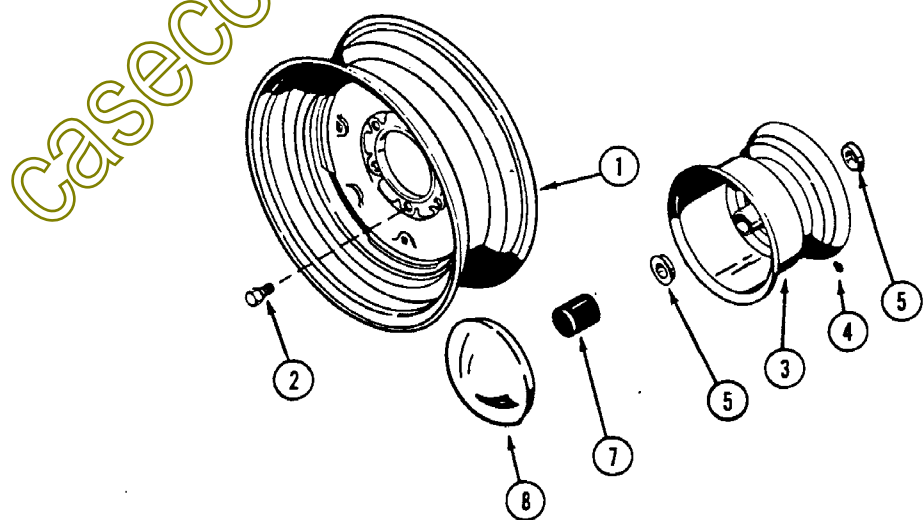
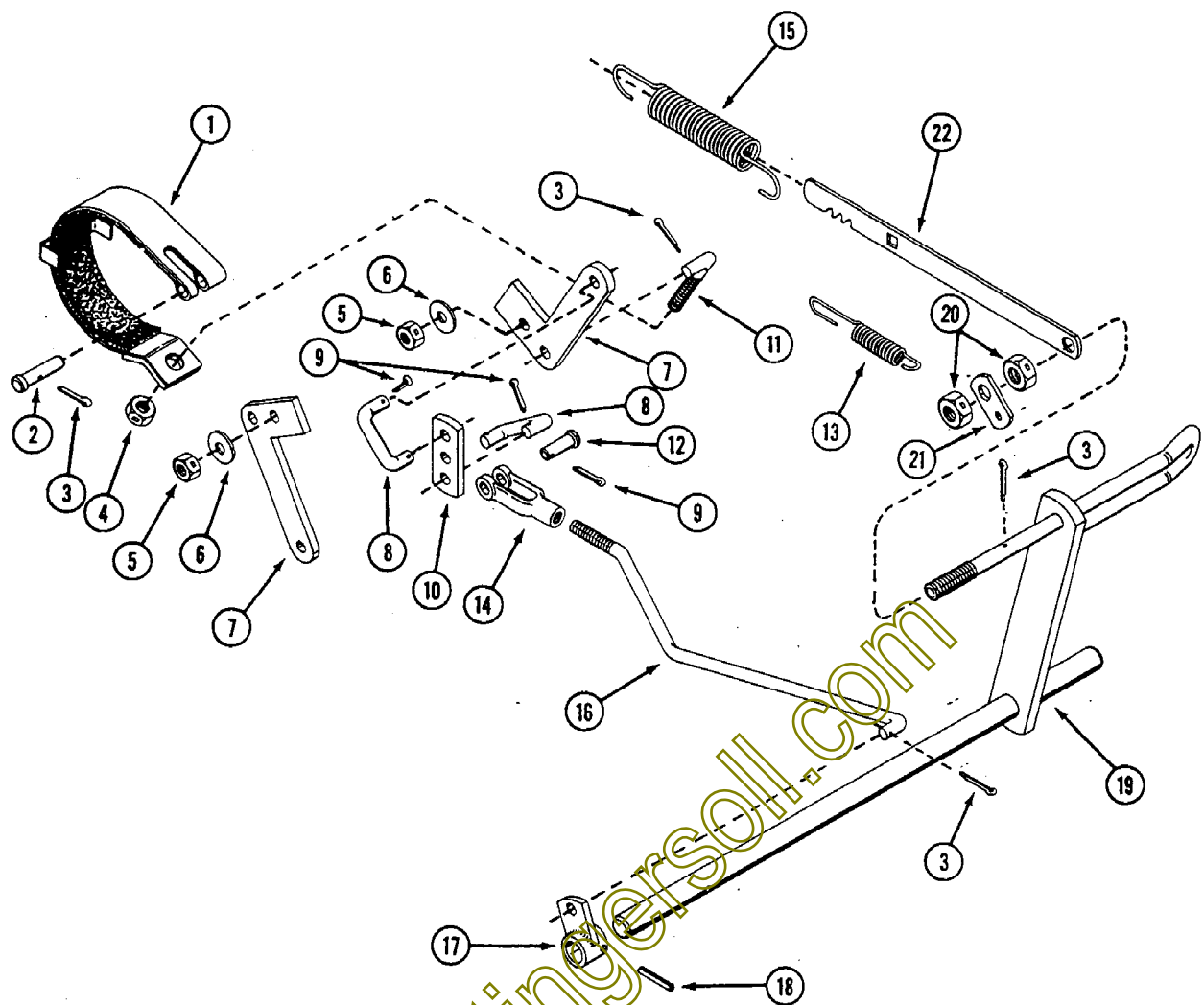
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 40687	AXLE - front	1
2	NSS	SPINDLE - right hand (Use C31341, 132-311, C27902)	1
3	NSS	SPINDLE - left hand (Use C31340, 132-311, C27902)	1
4	138- 99	PIN - roll	2
5	C 22278	PIN - retaining, axle pivot	1
6	C 13716	WASHER - thrust	4
7	219- 404	FITTING - lube	3
8	C 13106	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

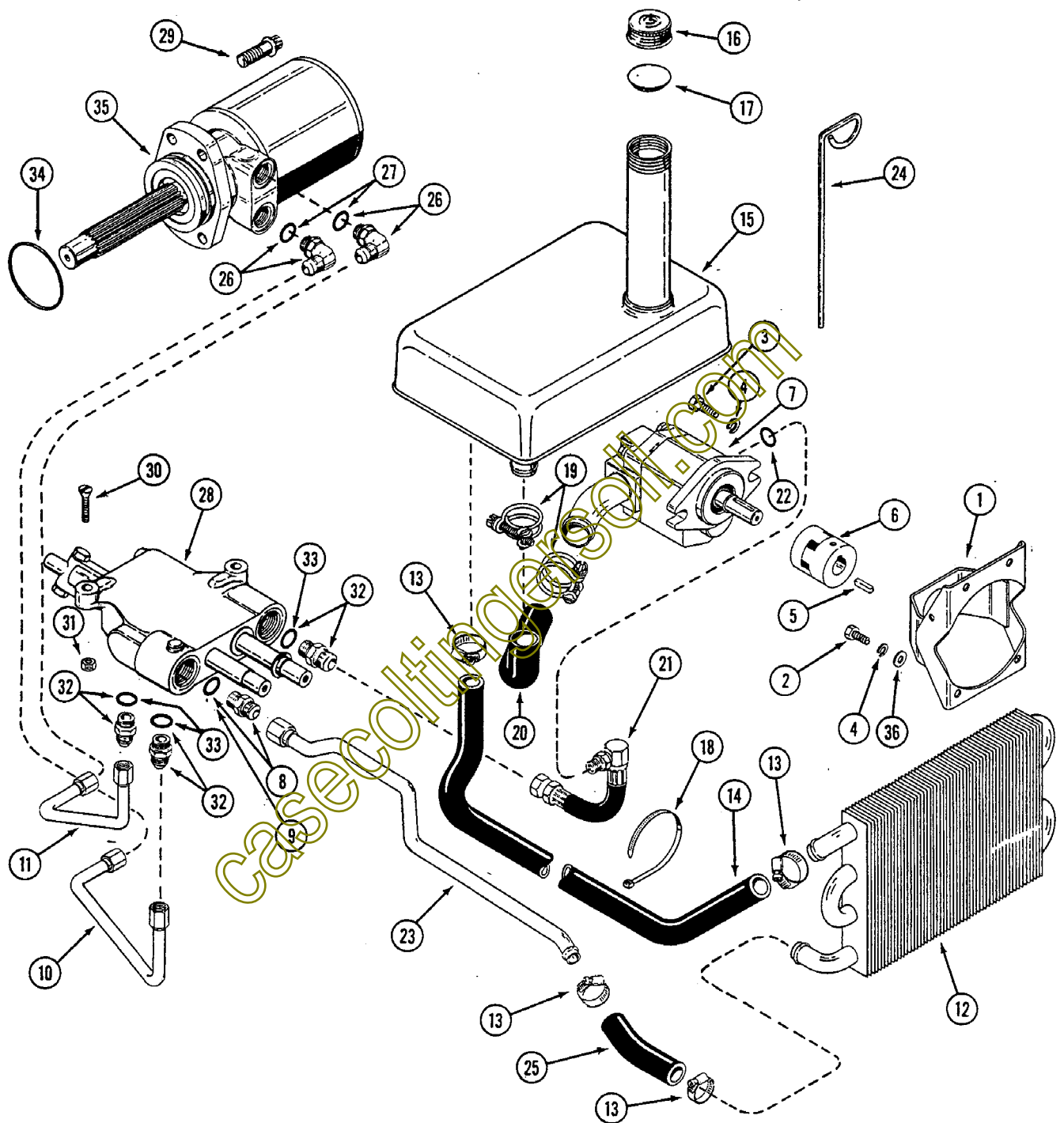


BRAKE ASSEMBLY

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

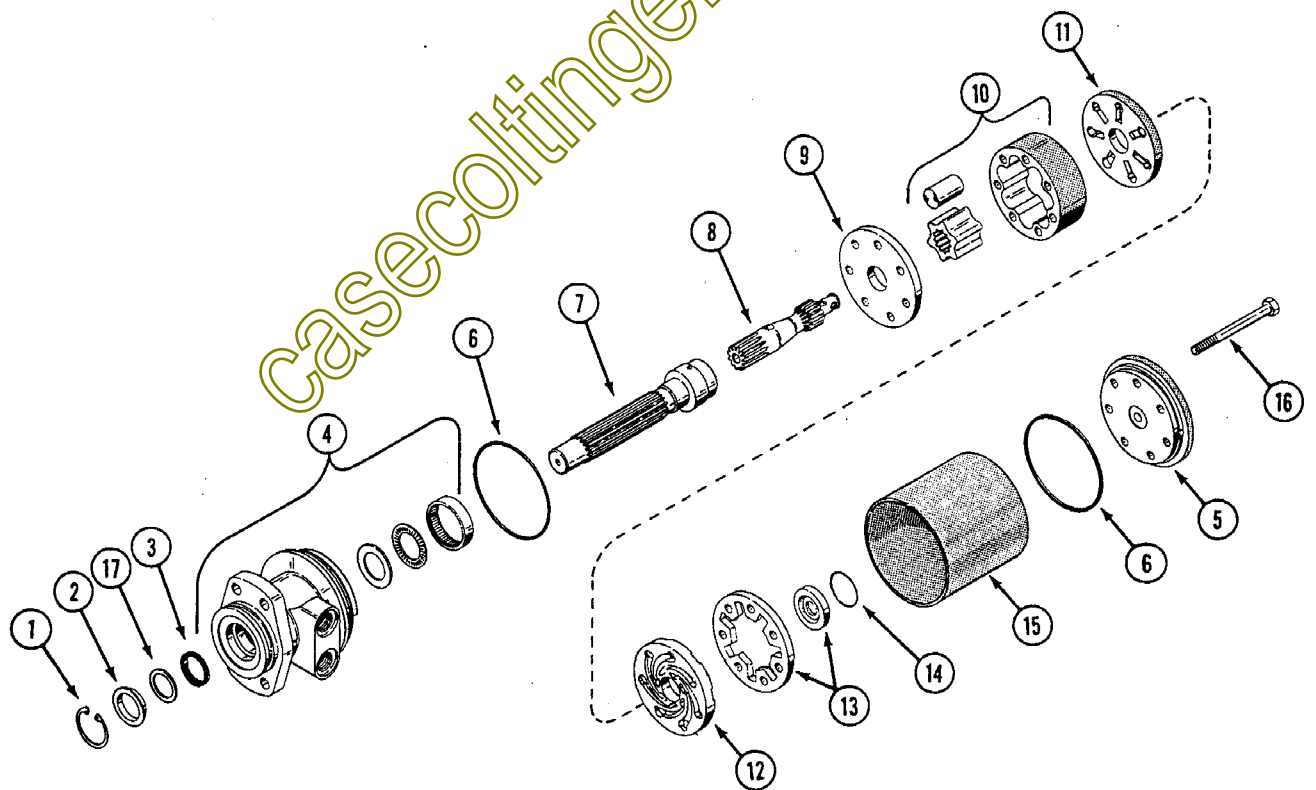
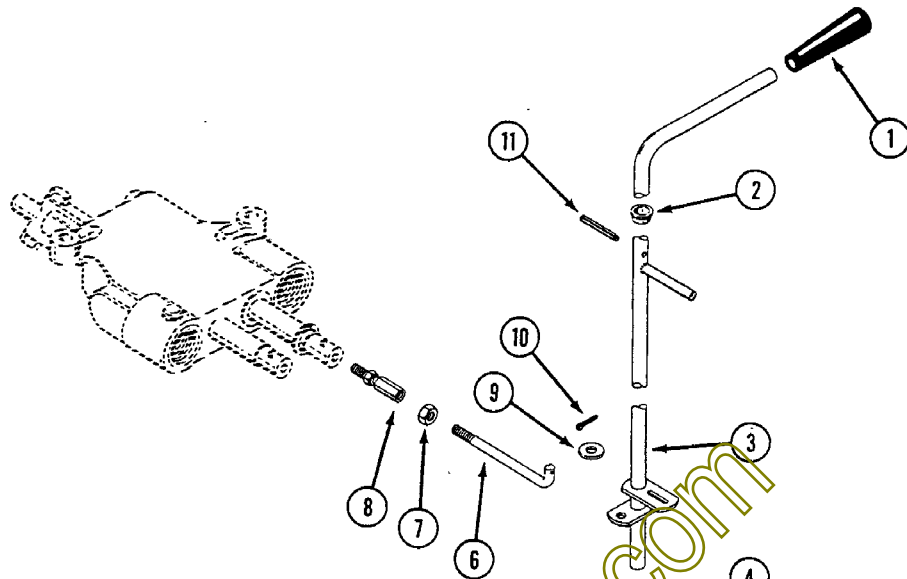
1	C 30917	WHEEL - rear, 6 bolt	2
2	C 27763	BOLT - rear wheel	12
3	C 30912	WHEEL - front	2
4	219- 403	FITTING - lube	2
5	C 44499	BEARING - wheel, inner	2
7	C 44475	CAP - plastic, front.	2
8	C 28965	CAP - hub, front wheel (optional)	2
	C 13106	COVER - lube fitting	2



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



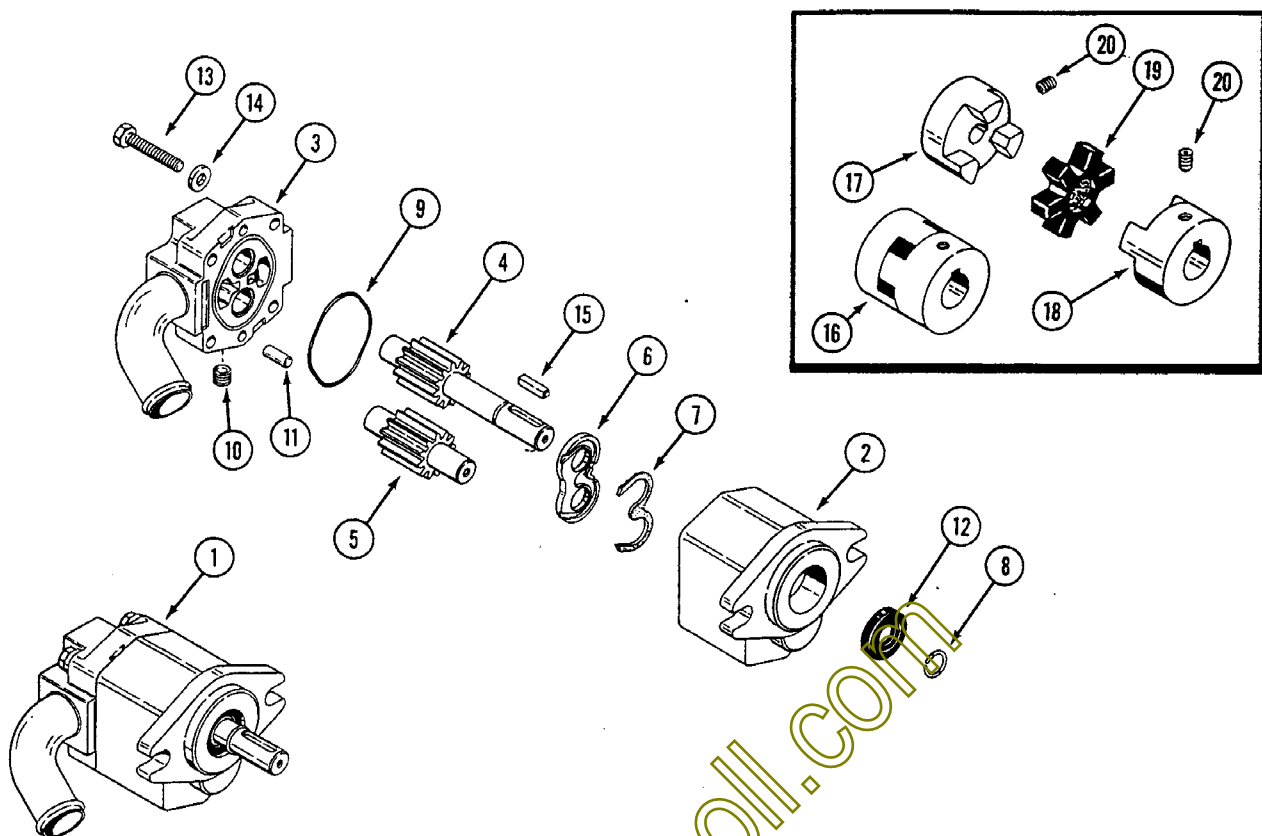
SPEED CONTROL

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

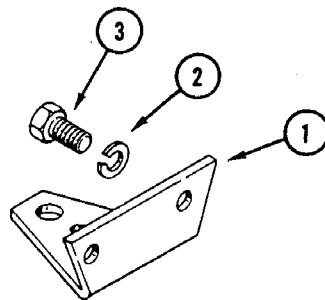
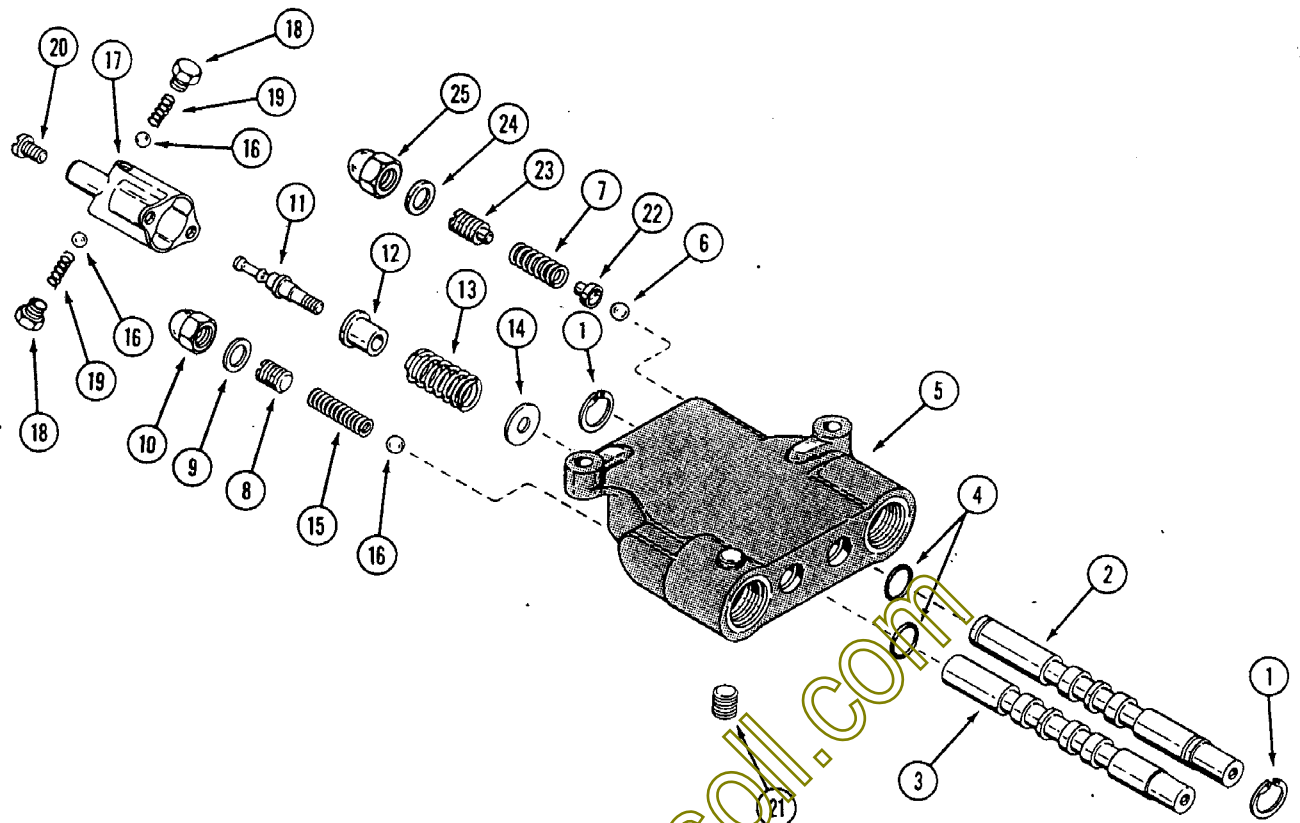
	NSS	MOTOR - hydraulic (Use C33234)	1
1	C 16516	RING - retaining	1
2	NSS	SPACER - (See kit below)	1
3	NSS	SEAL - oil (See kit below)	1
4	C 14827	HOUSING ASSEMBLY	1
5	NLA*	END CAP	1
6	NSS	SEAL - (See kit below)	2
7	NLA*	SHAFT - coupling	1
8	NLA*	DRIVE LINK	1
9	C 14830	PLATE - wear	1
10	NLA*	ROTOR ASSEMBLY	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

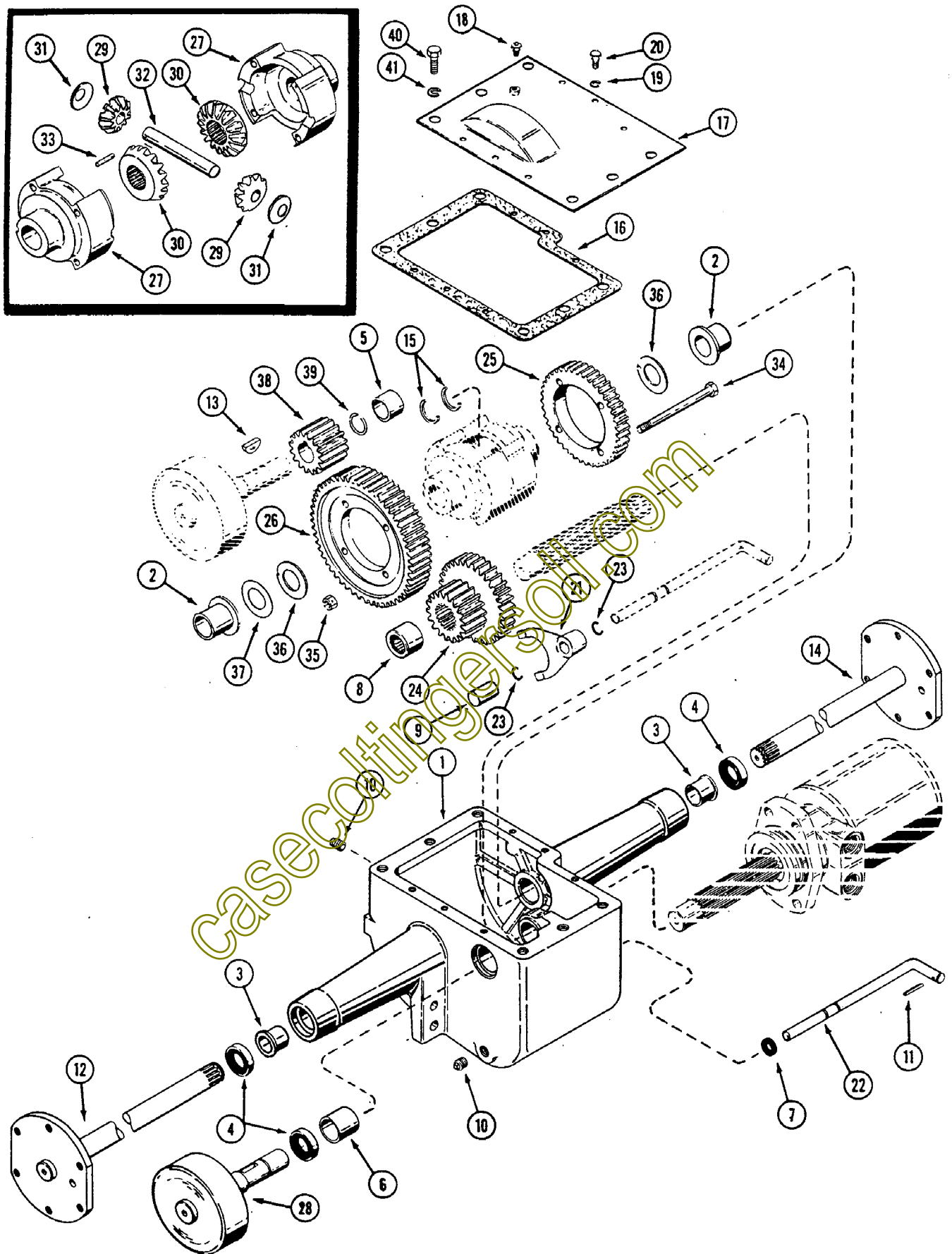


HYDRAULIC CONTROL VALVE (TWO SPOOL)

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

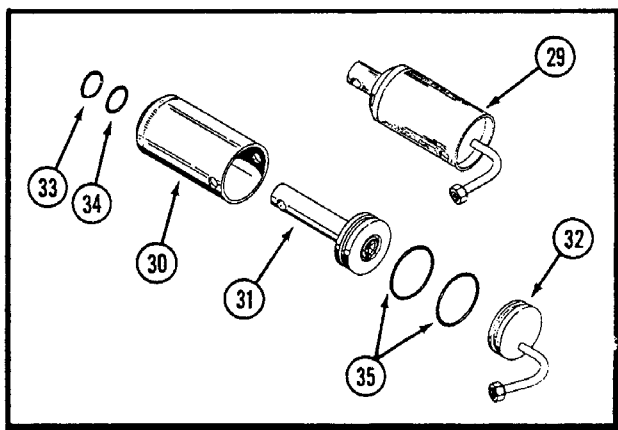
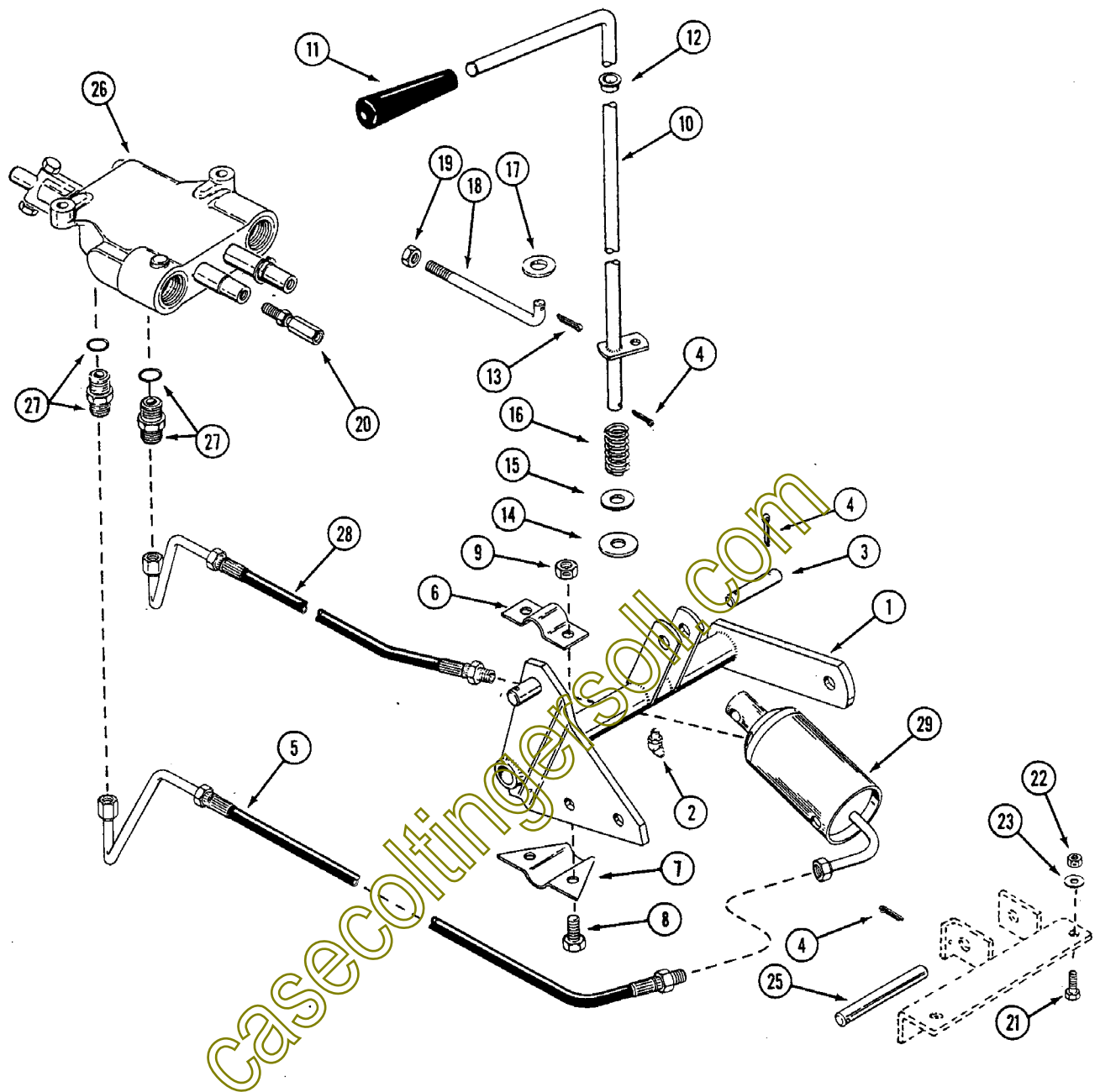
DRAWBAR AND TOW HITCH

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



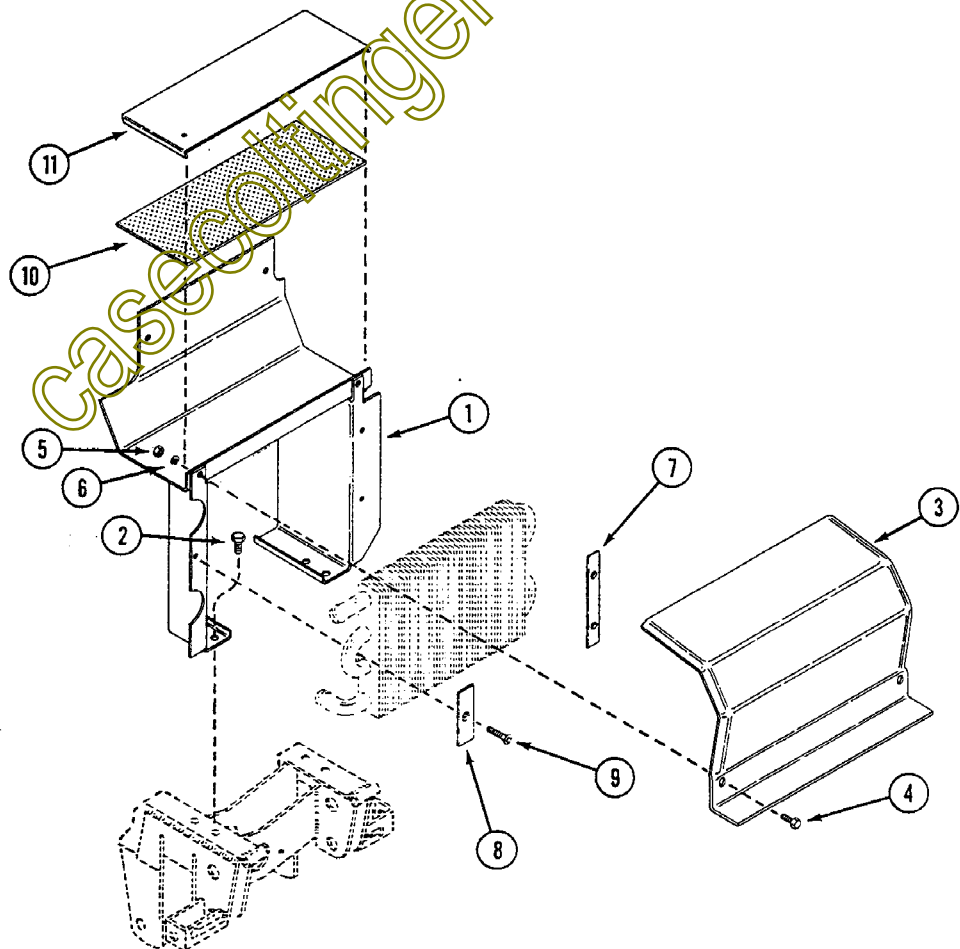
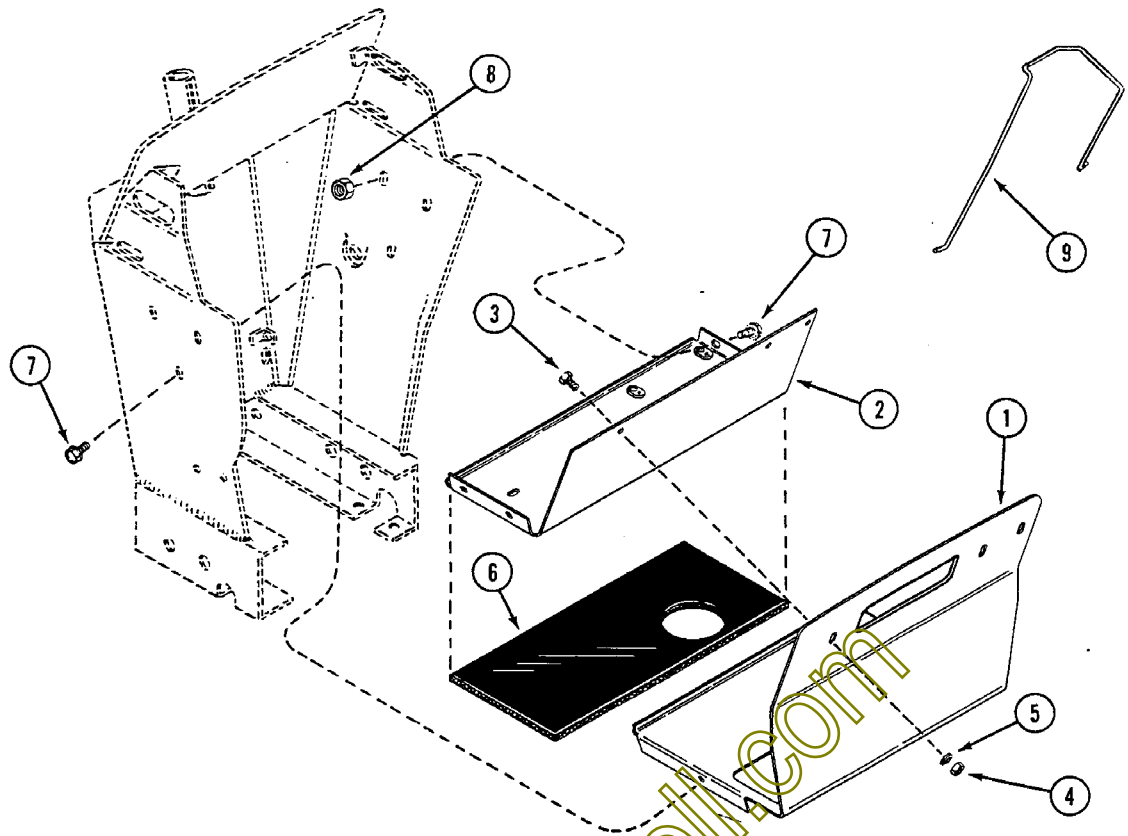
TRANSMISSION AND FINAL DRIVE

REF.	PART NO.	DESCRIPTION	REQ'D
1	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

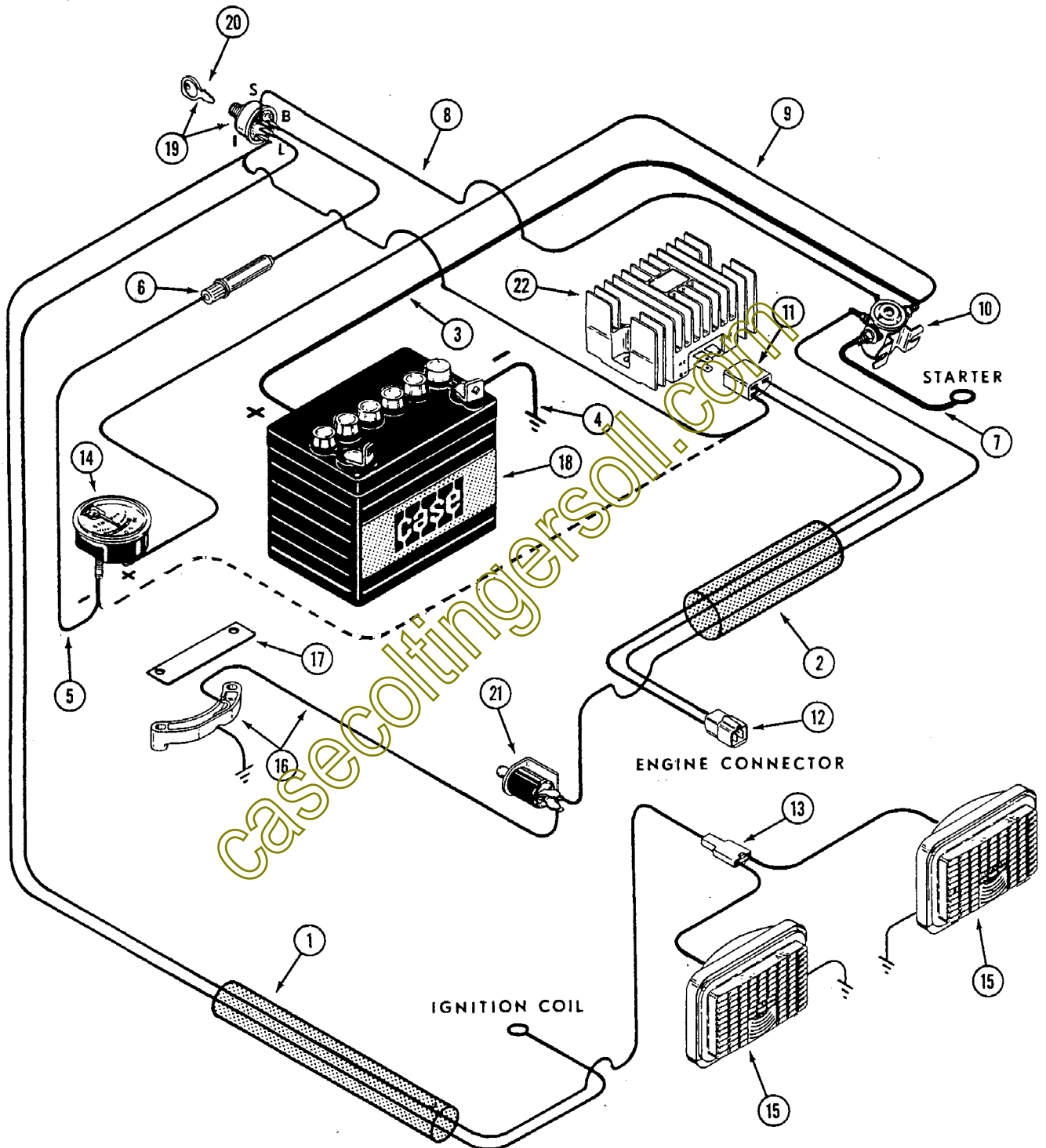


BATTERY MOUNT AND HYDRAULIC RESERVOIR MOUNT

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

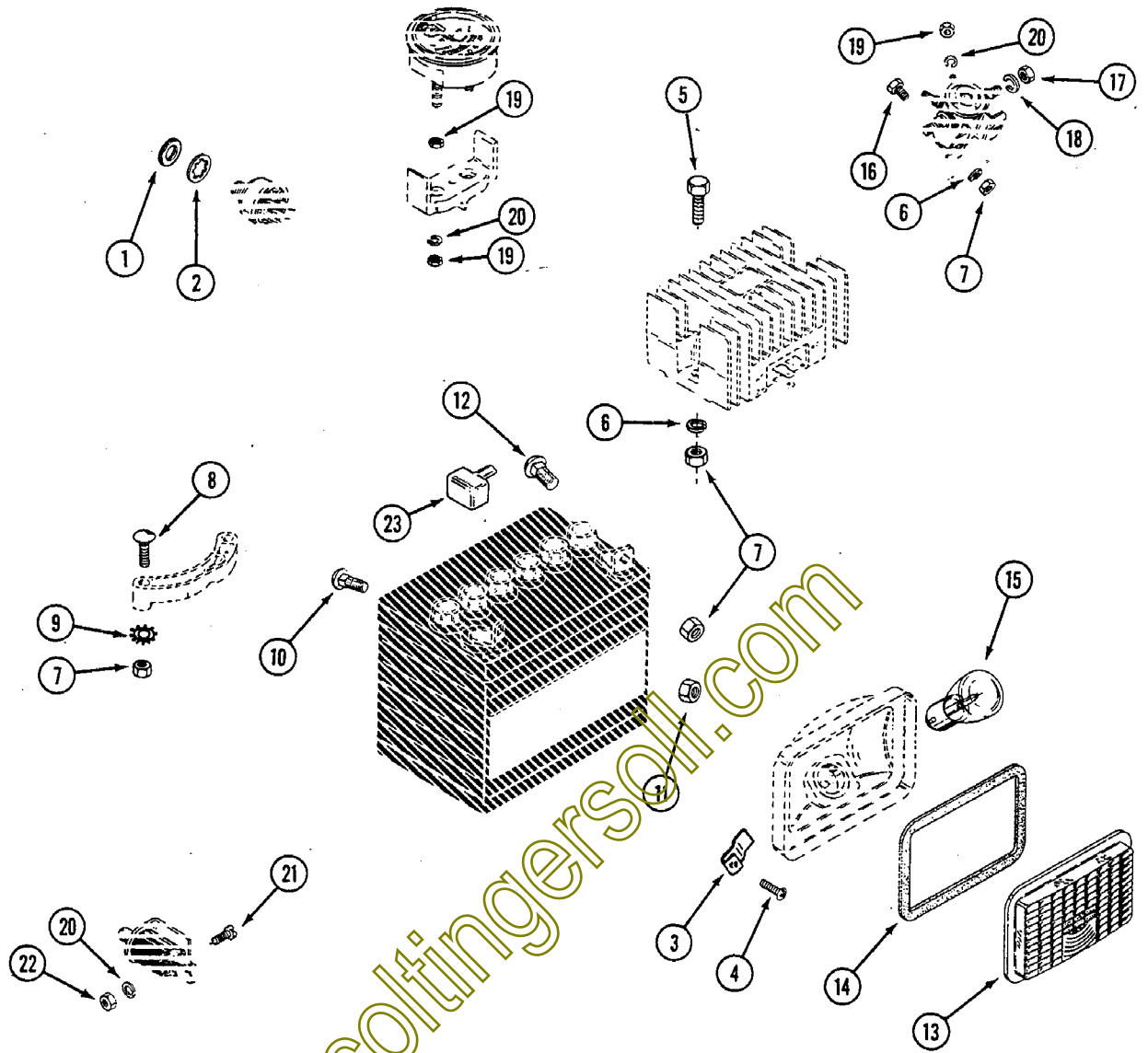


ELECTRICAL SYSTEM

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

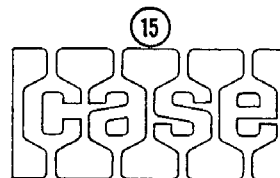
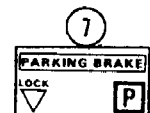
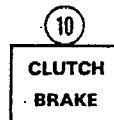
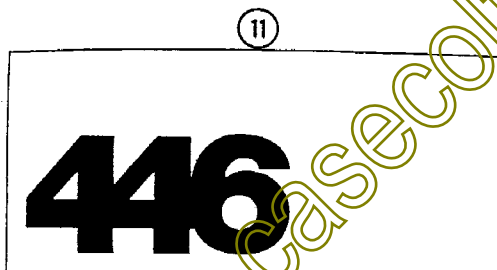
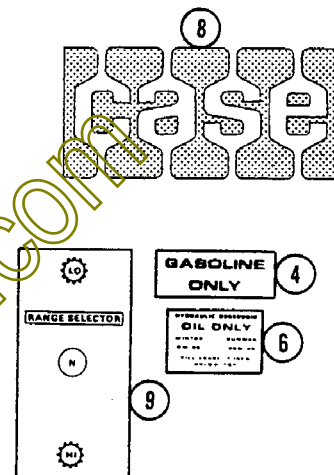
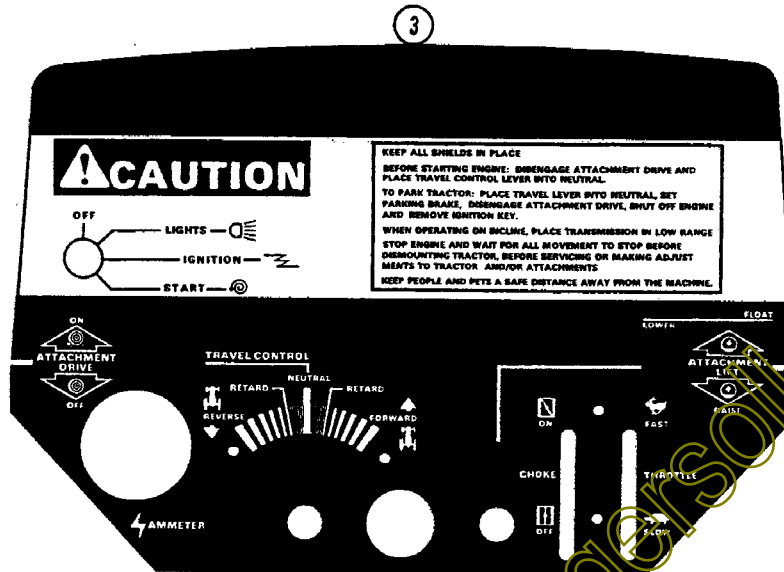
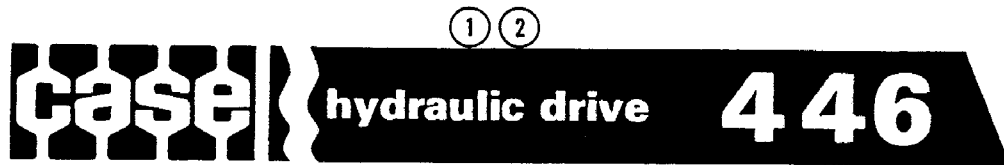
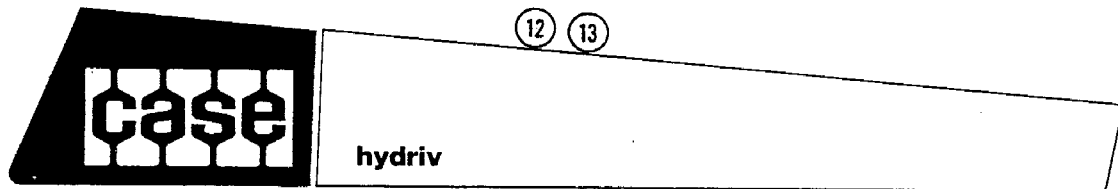
*use to modify early production as shown in illustration

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



ELECTRICAL SYSTEM HARDWARE

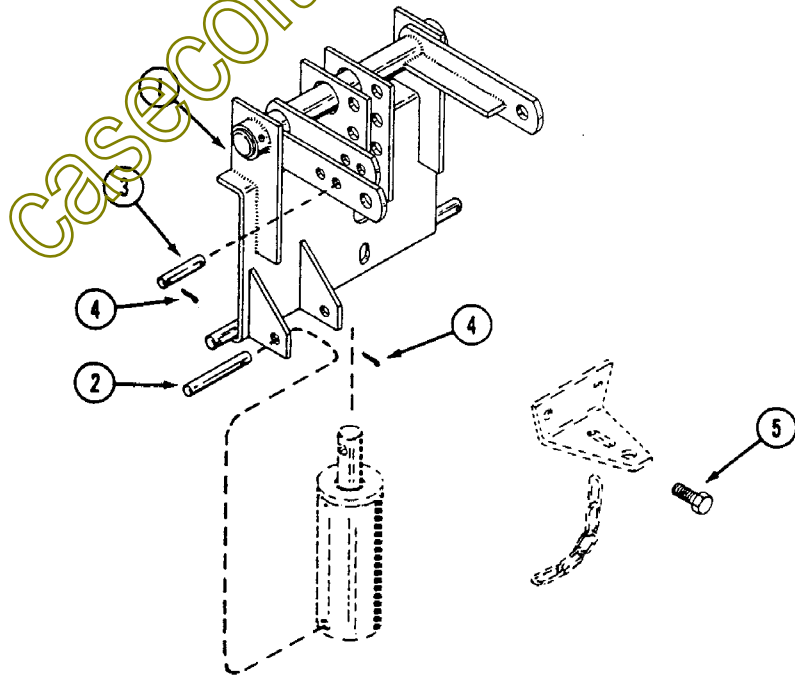
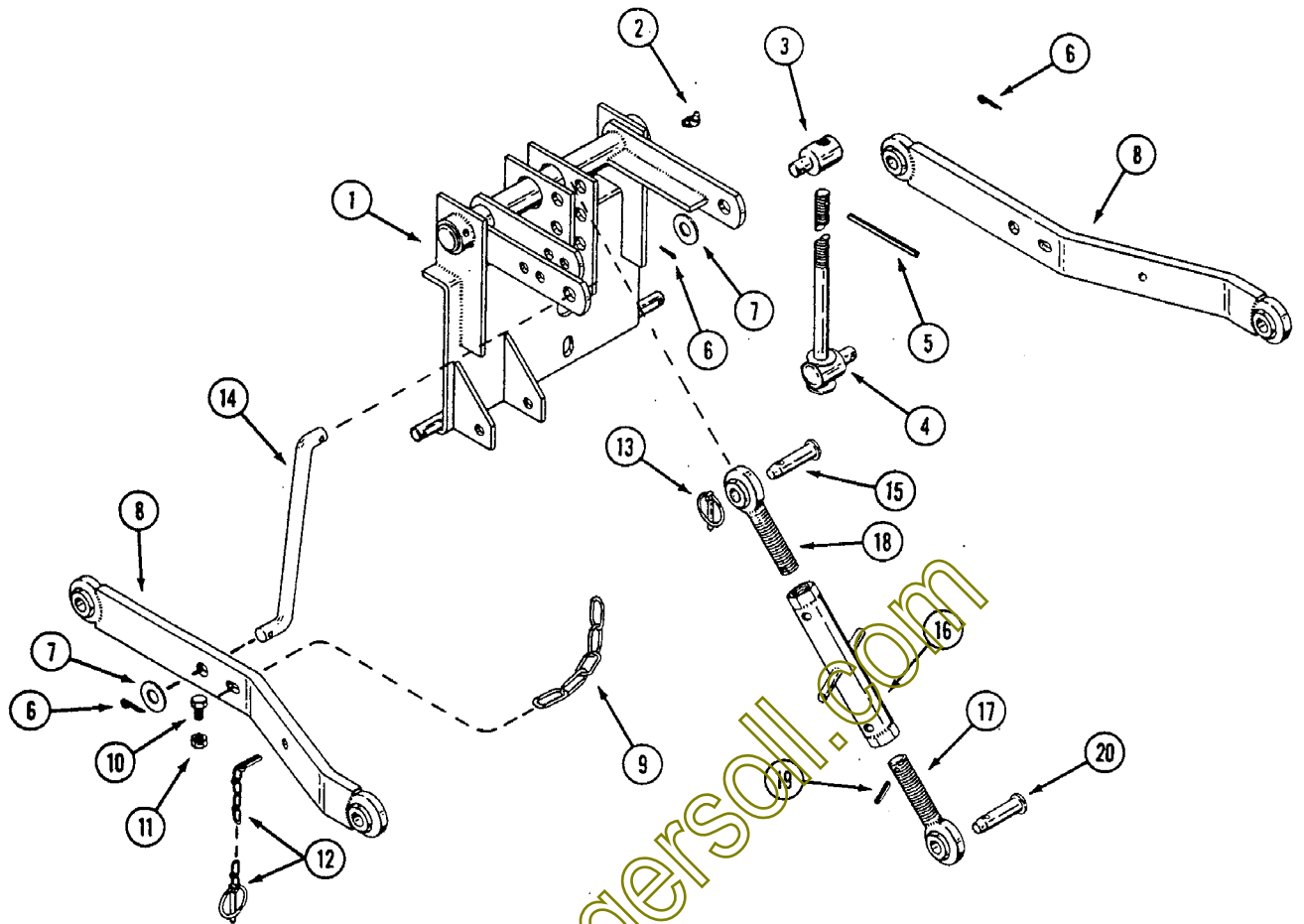
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23330	NUT - switch	1
2	C 23012	LOCKWASHER - switch	1
3	131- 629	NUT - speed type "U"	4
4	187- 1334	SCREW - #8 x 1/2" self tapping Phillips	4
5	113- 1	BOLT - 1/4" - 20 x 1/2" hex	2
6	192- 19	LOCKWASHER - 1/4"	4
7	129- 101	NUT - 1/4" - 20 hex	7
8	111- 131	BOLT - 1/4" - 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

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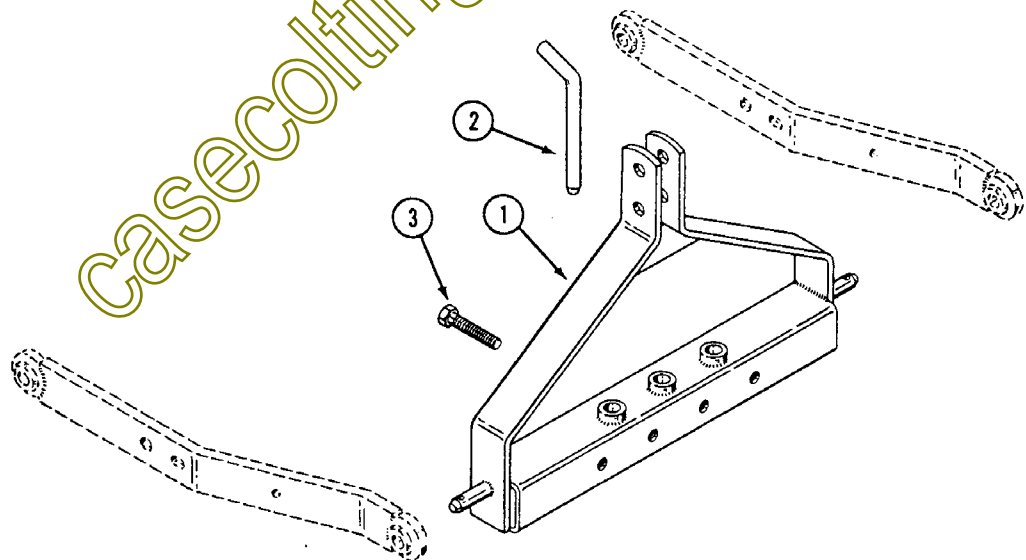
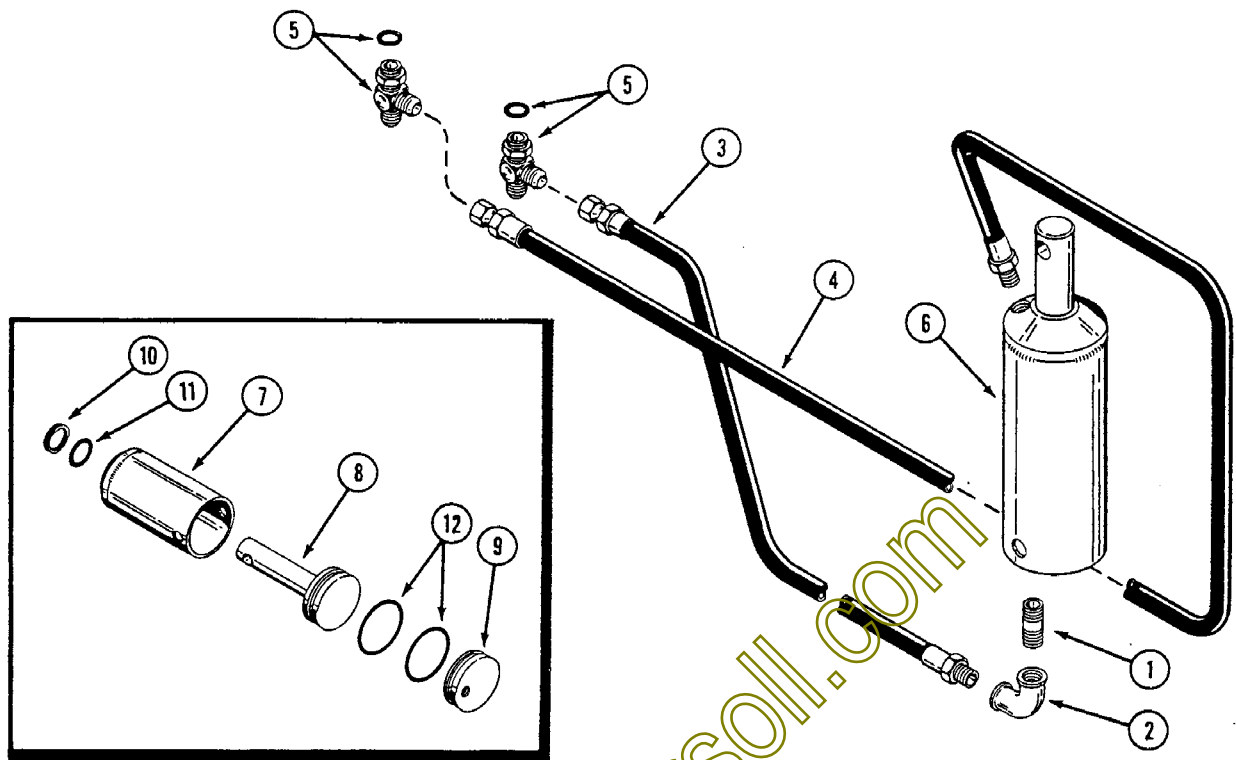


H26 THREE POINT HITCH FRAME, LIFT RODS AND ARMS

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

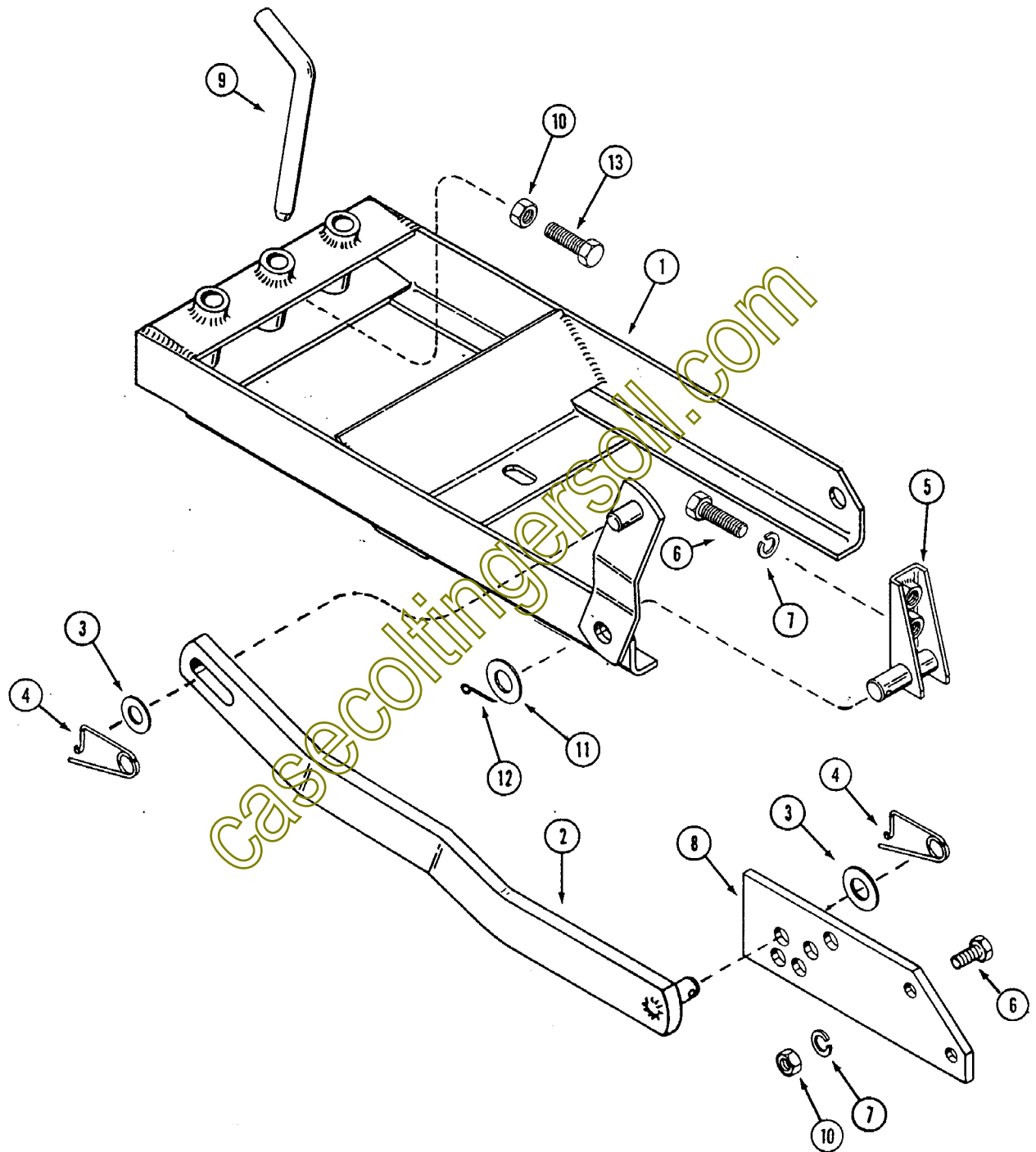


**MODEL H26 THREE POINT HITCH AND MODEL
F27 HITCH ADAPTER
HYDRAULIC CONNECTIONS AND COMPONENTS**

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

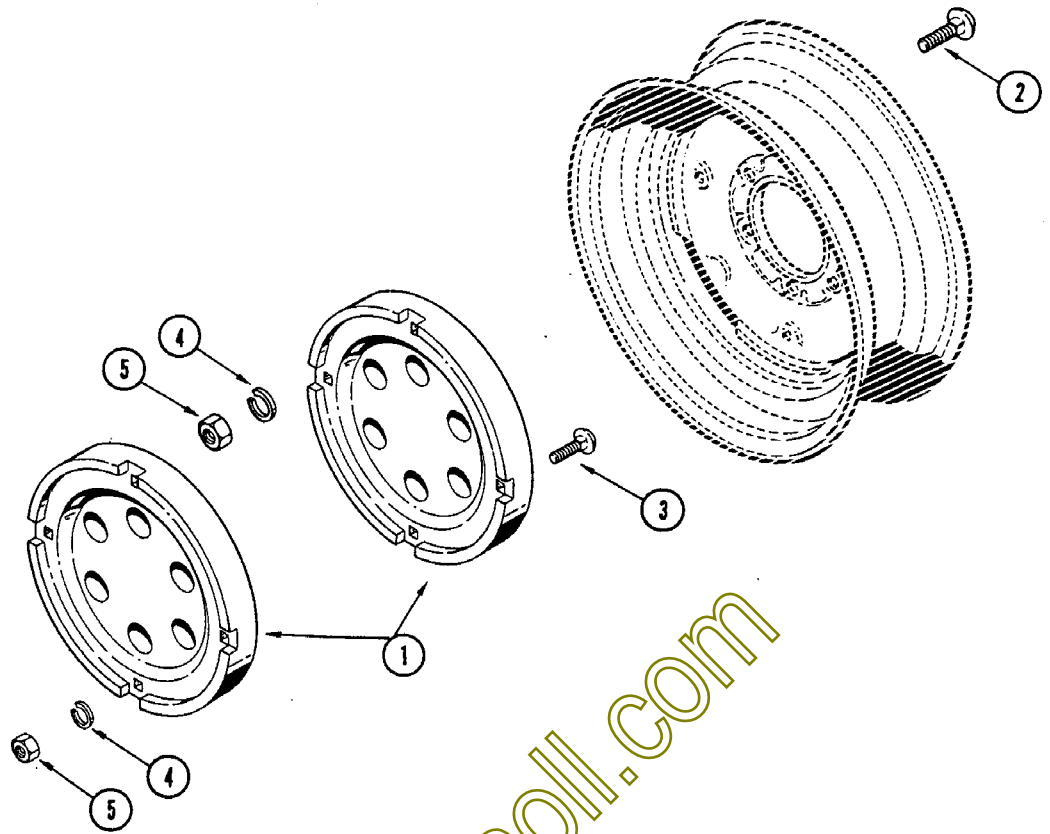
1	NSS	BRACKET - hitch adapter	1
2	C 14568	PIN - drawbar	1
3	113- 425	BOLT - 1/2" x 3" N.C. hex, zinc plated	4



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

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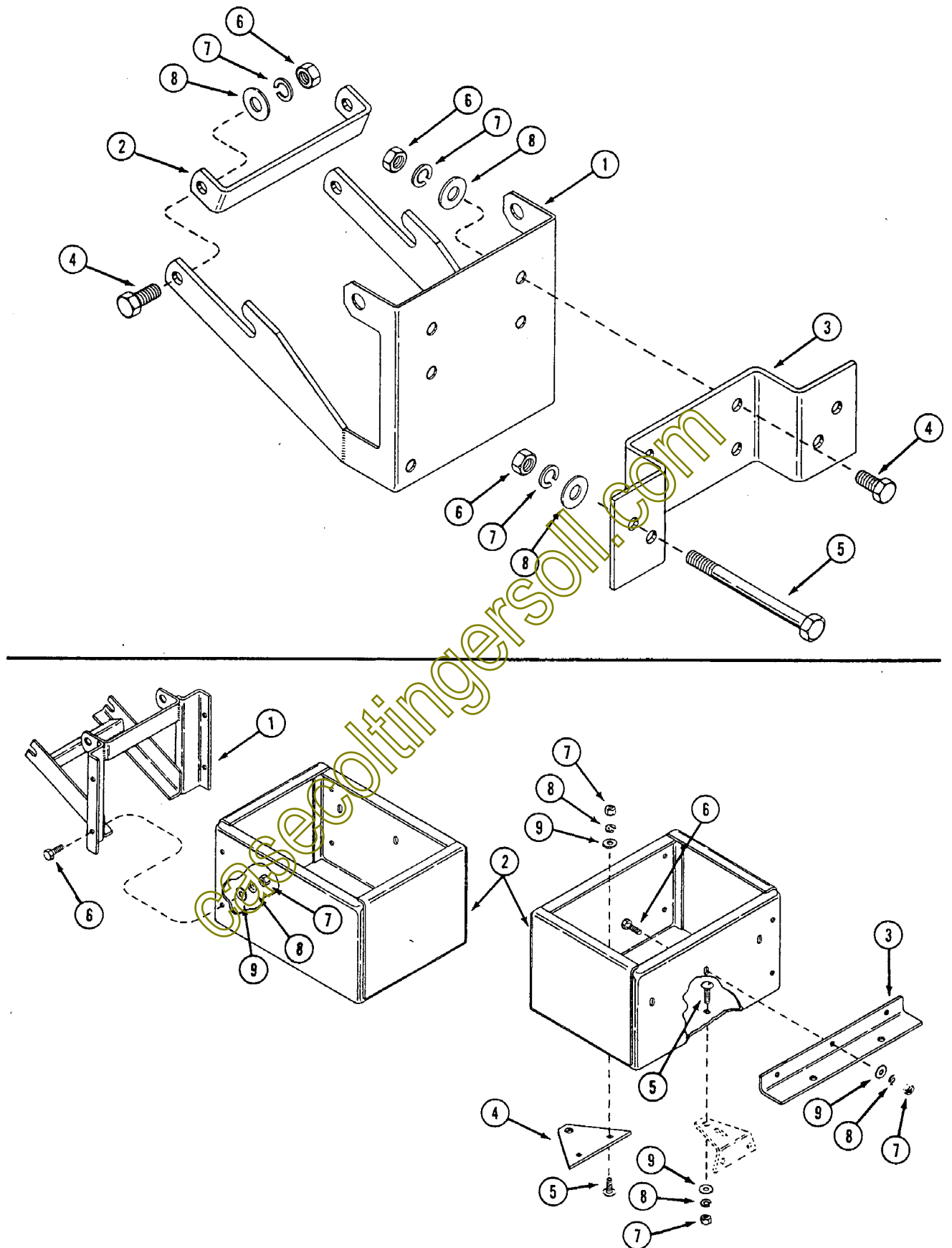


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D10 WHEEL WEIGHTS

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

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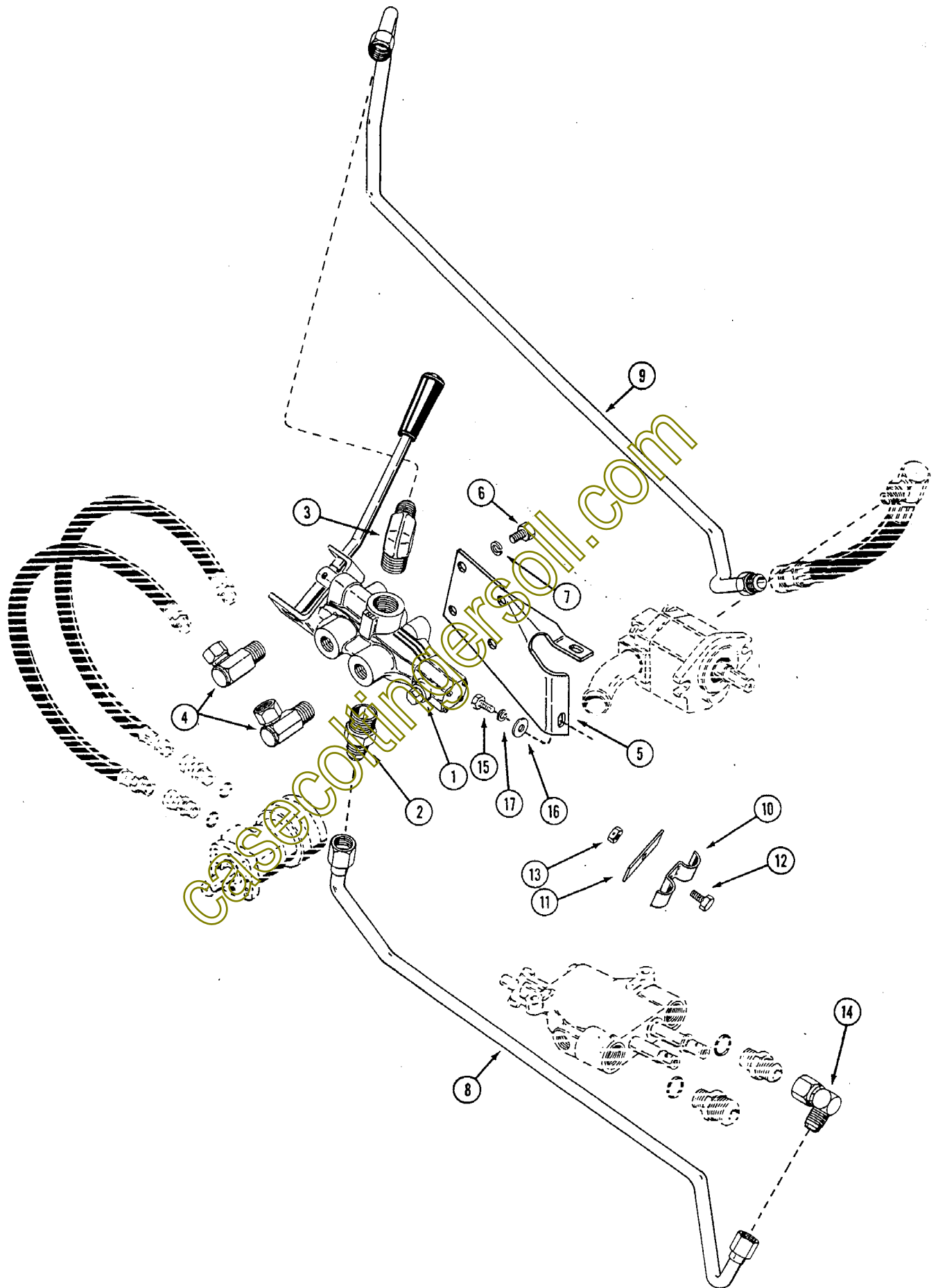


MODEL H18 FRONT END WEIGHT BRACKETS

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

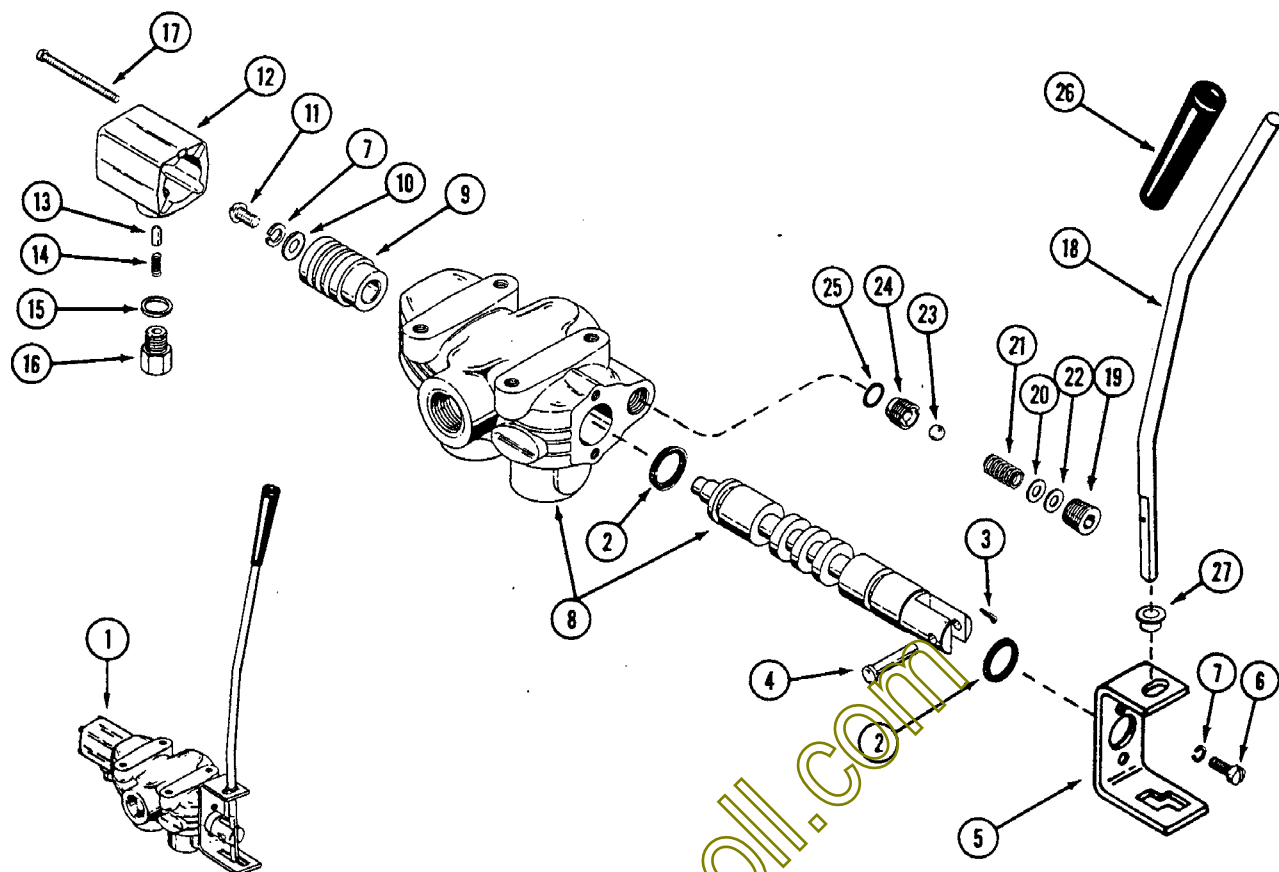
1	C 17859	FRAME - weight box	1
2	NSS	BOX - weight	1
3	C 17860	SUPPORT - weight box	1
4	C 17636	PLATE - hitch	1
5	111- 317	BOLT - 3/8" x 1" round head, square neck	3
6	113- 207	BOLT - 3/8" x 1" N.C. hex	4
7	129- 103	NUT - 3/8" N.C. hex	7
8	192- 21	LOCKWASHER - 3/8"	7
9	195- 525	WASHER - 3/8"	7



J-17 HYDRAULIC PTO KIT

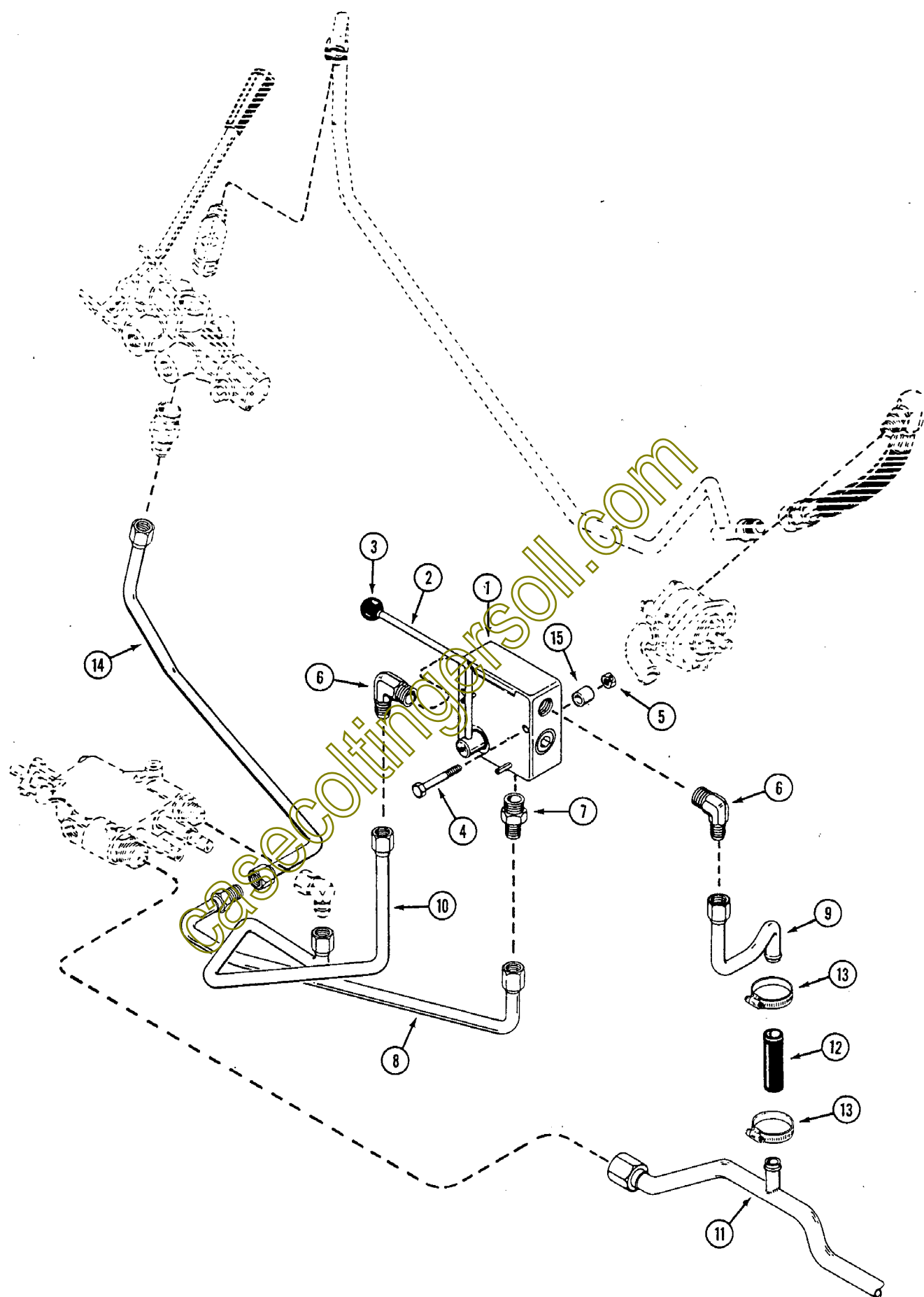
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 30044	VALVE - PTO control	1
2	218- 457	FITTING - straight 3/4" NPT x 5/8" tube.	1
3	218- 494	FITTING - elbow 90°, 3/4" NPT x 5/8" tube	1
4	218- 927	FITTING - elbow - 90°, 1/2" NPT x 1/2" female NPSM swivel	2
5	C 23337	BRACKET - valve mounting	1
6	113- 206	BOLT - 3/8" 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

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J-17 HYDRAULIC PTO VALVE

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	VALVE - control (Use C30044)	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	71- 410	SCREW - 1/4" x 5/8" N.C. fillister head	2
7	192- 19	LOCKWASHER - 1/4"	3
8	NSS	BODY AND SPOOL ASSEMBLY (Use C30044)	1
9	C 11895	ADAPTER - spool	1
10	95- 4	WASHER - plain 1/4"	1
11	75- 48	SCREW - 1/4" x 1/2" rd. hd. machine	1
12	C 11893	BONNET - detent	1
13	C 11901	PIN - detent	1
14	C 11892	SPRING - detent	1
15	C 11886	WASHER - detent spring	1
16	NLA	CAP - detent	1
17	NLA	SCREW - bonnet #8-32 x 2-1/4" fillister head	4
18	C 19423	LEVER - valve	1
19	221- 842	PLUG - relief 3/8" NPT	1
20	C 28700	SHIM - .010" thick	UAR
21	C 28716	SPRING - relief	1
22	C 28698	SHIM - .020" thick	UAR
23	211- 11	BALL - relief 3/8"	1
24	C 18417	SEAT - relief	1
25	C 28696	"O" RING - relief seat	1
26	C 28237	KNOB - hand throttle	1
27	C 26266	BUSHING - nylon	1



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

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C28487	61	11	C32427	59	18	113-	206	69 6
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C28697	61	12	C32469	9B	10	113-	207	67 6
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