



**Models 220, 222, 224 &
444 Compact Tractors
S/N'S & After**

Parts Catalog A1278

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U.S. PRICE \$1.00

**MODELS 220, 222, 224 & 444
COMPACT TRACTORS**

220 S/N 9674235 & AFTER

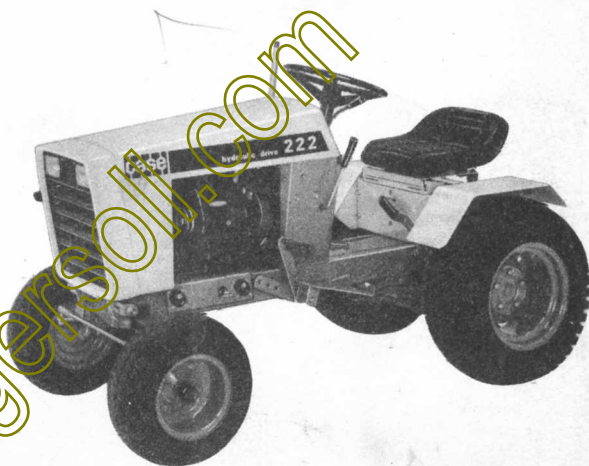
222 S/N 9681170 & AFTER

224 S/N 9676354 & AFTER

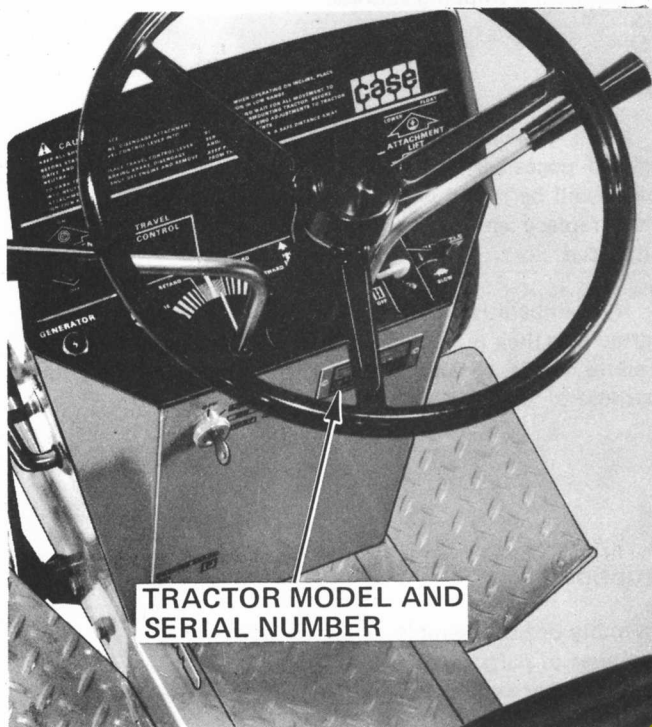
444 S/N 9677449 & AFTER

Parts Catalog A1278

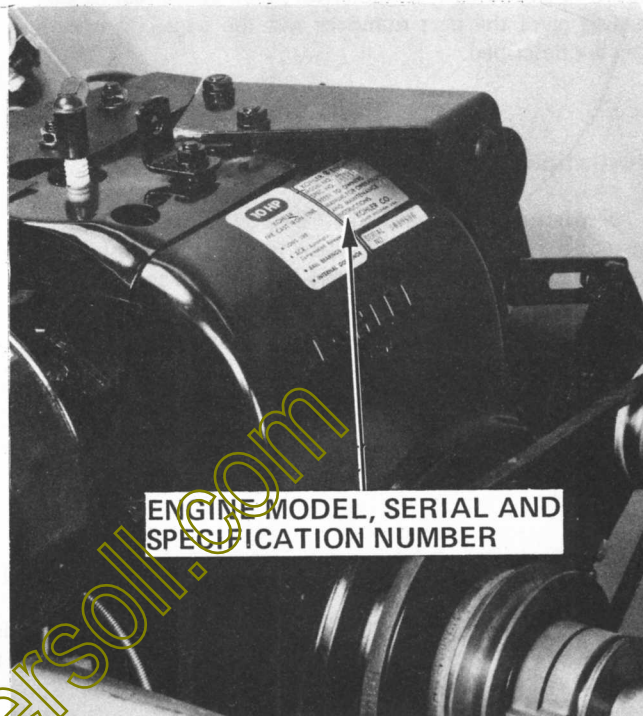
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CASE 220, 222, 224 AND 444 COMPACT TRACTORS



TRACTOR MODEL AND
SERIAL NUMBER



ENGINE MODEL, SERIAL AND
SPECIFICATION NUMBER

TRACTOR MODEL DESIGNATIONS	ENGINE MODEL DESIGNATIONS
220 TRACTOR	K-241-A C20181 ENGINE, SPEC. NO. 46708D USED S/N 9674434 AND AFTER
222 TRACTOR	K-301-A C19027 ENGINE USED S/N 9681220 TO S/N 9690544
222 TRACTOR	K-301-A C20182 ENGINE, SPEC. NO. 475290D USED S/N 9690544 AND AFTER
224 TRACTOR	K-321-A C20183 ENGINE, SPEC. NO. 60258D USED S/N 9676483 AND AFTER
444 TRACTOR	K-321-A C20183 ENGINE, SPEC. NO. 60258D USED S/N 9677610 AND AFTER

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.

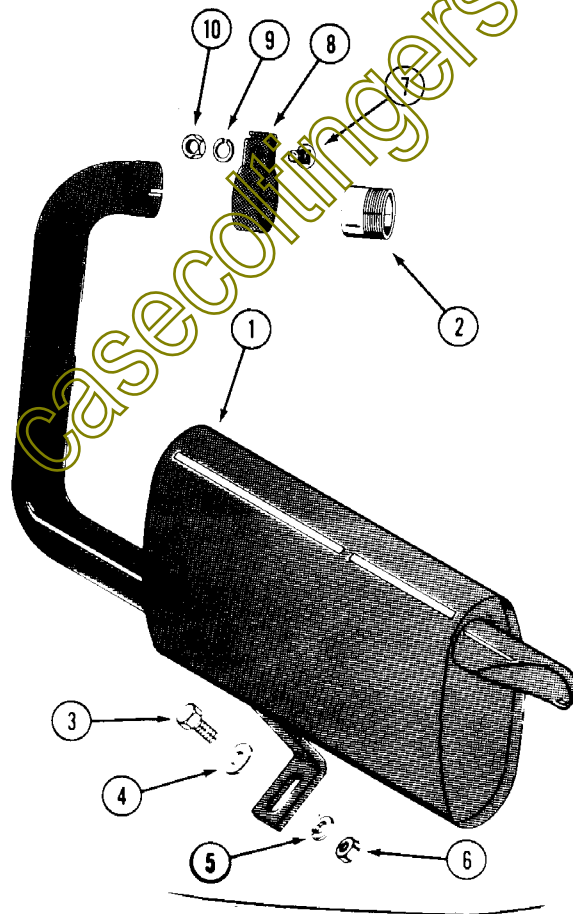
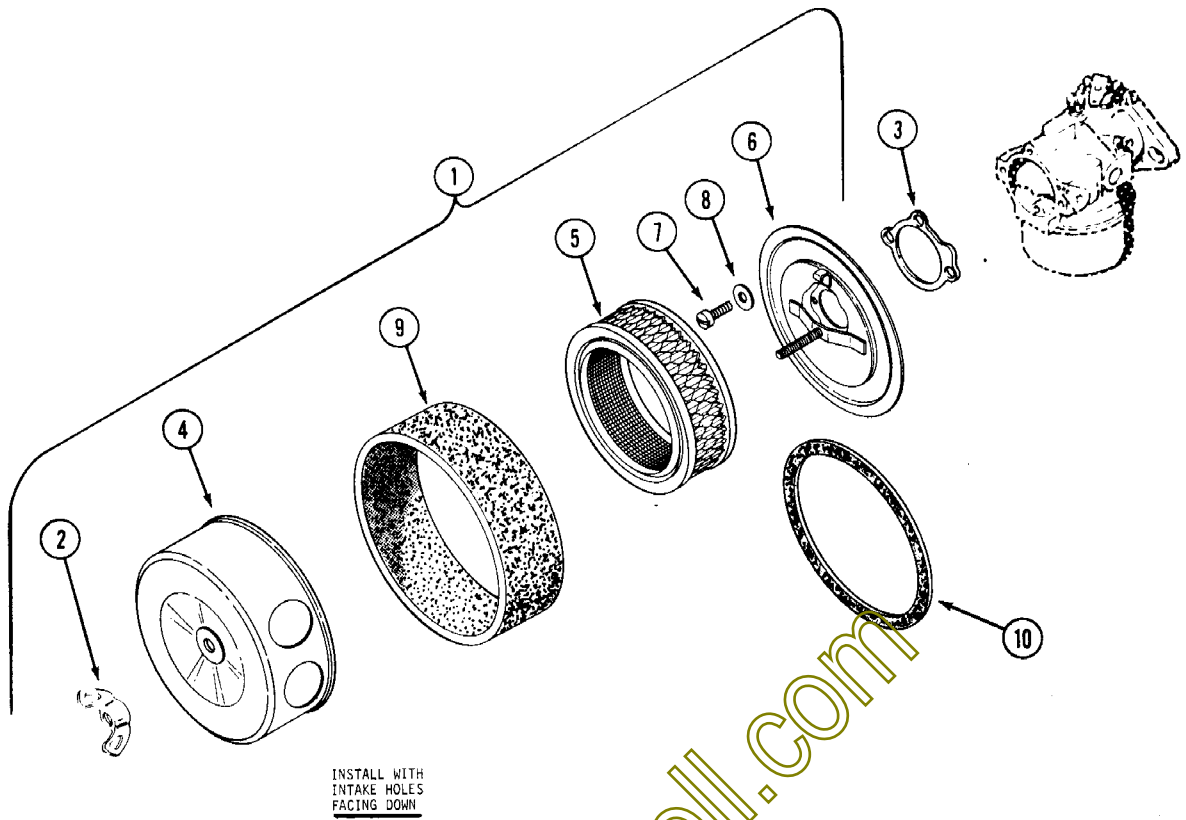
ALPHABETICAL INDEX

ENGINE SECTION

	220		224		220		224
	222		444		222		444
	Page			Page			
Air Cleaner	5		5	Filter, Breather	7		9
Battery	61		61	Flywheel	17-19		21
Belt, Starter-Generator . . .	25		25	Fuel Pump	25-27		25-27
Breaker Contacts	63		63	Fuel Strainer	25		25
Breather, Crankcase	7		9	Fuel System	25		25
Camshaft	7		9	Gasket Kits	23		23
Carburetor	25-27		25-27	Governor	29		29
Connecting Rod	11-13		15	Muffler	5		5
Crankshaft	11-13		15	Oil Pan	17-19		21
Cylinder Block	17-19		21	Piston	11-13		15
Cylinder Head	17-19		21	Pulley, Clutch	31-33		31-33
Electrical System	61-63		61-63	Spark Plug	61		61
Engine Block &				Starter-Generator	57-59		57-59
Attaching Parts	17-19		21	Tank, Fuel	25		25
Exchanger, Heat	49		49	Throttle Linkage	29		29
Exhaust System	5		5	Valves	7		9
Fan	33		33				

BASIC TRACTOR SECTION

Axle, Front	39	Instruments	61
Axle, Rear	47	J17 Hydraulic PTO	79
Baffles & Shrouds	25	K19 Flow Control Valve Kit	81
Brakes	43	Models D8 & D10 Wheel Weights	67
Control-Speed	55	Model H26 Three Point Hitch	71
Decals	65	Model F27 Three Point Hitch Adapter	73
Electrical System	61-63	Model H22 & H24 Sleeve Hitch	75
Fenders	37	Model H13 Weight Box	77
Frame	35	Model H18 Counterweight	
Grille	35	Brackets	77
Hitch	45	Model J30 Hydraulic Lift	69
Hood	35	Mounts, Engine	29
Hydraulics	49	Pulley Clutch	31-33
Coupling, Pump Drive	49-53	Seat, Operator's	37
Hoses, Lines & Fittings	49	Steering Wheel & Gear	41
Motor, Hydraulic Drive	49-55	Tail Lamp	61
Pump	49-53	Tool Box	37
Valve, Control	49-53	Transmission	47
Valve Control Linkage	55	Wheels, Front & Rear	43
Implement Lift Lever	45		

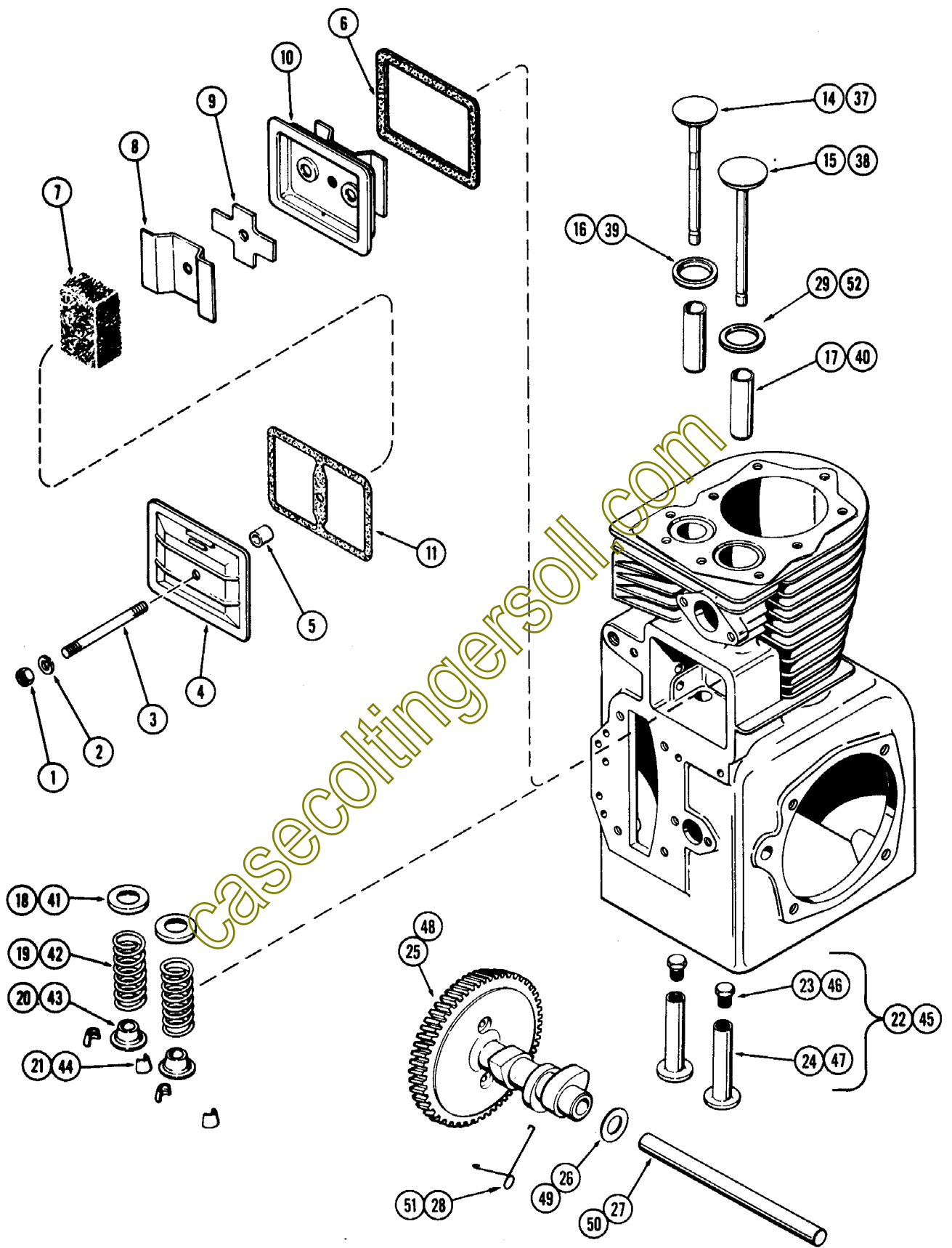


AIR CLEANER

REF.	PART NO.	DESCRIPTION	REQ'D
1	KO 237895	AIR CLEANER ASSEMBLY (includes items 4, 6 & 10)	1
2	129- 409	NUT - wing NC 1/4"	1
3	KO 275341	GASKET - air horn	1
4	NSS	COVER - air cleaner (Order KO237848)	1
5	A 70090	ELEMENT - air cleaner	1
6	NSS	BASE - air cleaner (Order KO237424)	1
7	177- 94	SCREW - fillister head 10-32 x 5/16"	3
8	195- 512	WASHER - plain 3/16"	3
9	KO 237421	PRE-CLEANER	1
10	KO 237423	GASKET - cover, air cleaner	1

EXHAUST SYSTEM

1	C 19053	MUFFLER - exhaust, (includes C19449 clamp)	1
2	C 19213	PIPE - engine exhaust	1
3	113- 207	BOLT - 3/8" x 1" hex NC	1
4	195- 525	WASHER - 3/8" plain	1
5	192- 21	LOCKWASHER - 3/8"	1
6	129- 103	NUT 3/8" hex. NC	1
7	111- 256	BOLT - 5/16" x 1-1/4" round head NC	1
8	C 19449	CLAMP - muffler	1
9	192- 20	LOCKWASHER 5/16"	1
10	129- 102	NUT - 5/16" NC hex	1



220 AND 222 CRANKCASE BREATHER

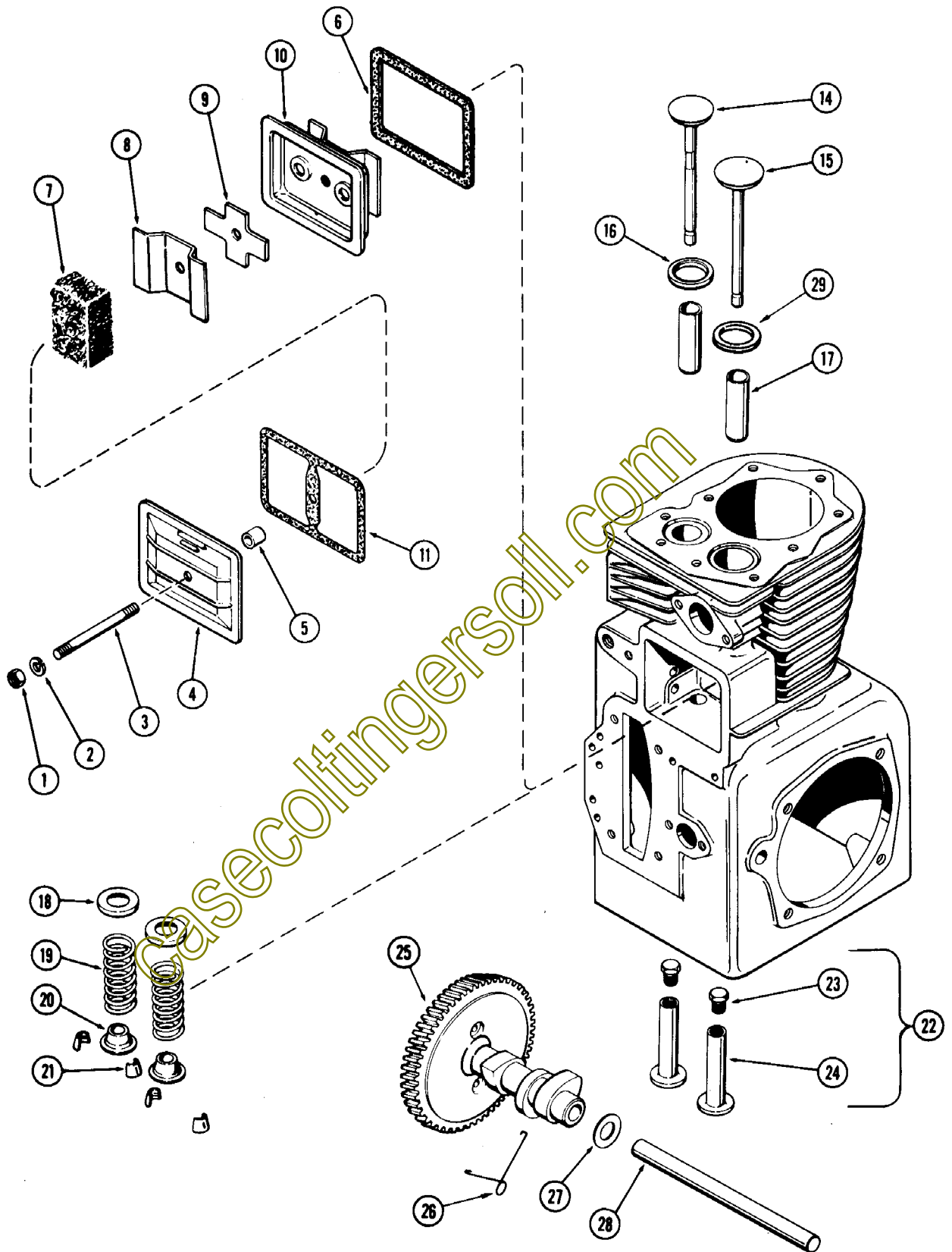
REF.	PART NO.	DESCRIPTION	REQ'D
1	25- 104	NUT - 1/4" NC hex	1
2	92- 4	LOCKWASHER - 1/4"	1
3	KO 275220	STUD - valve cover	1
4	KO 275143	COVER - valve	1
5	KO 231032	SEAL - breather	1
6	KO 235048	GASKET - breather plate	1
7	KO 235118	FILTER - breather	1
8	KO 235117	BAFFLE - breather	1
9	KO 235047	REED - breather	1
10	KO 235631	PLATE - breather	1
11	KO 275144	GASKET - valve cover	1

220 CAMSHAFT AND VALVES

14	KO 235826	VALVE - exhaust	1
15	KO 235008	VALVE - intake	1
16	KO 230170	INSERT - exhaust valve seat	1
17	KO 235007-S	GUIDE - valve	2
18	KO 235011	SEAT - valve spring	2
19	KO 235010	SPRING - valve	2
20	KO 230011	RETAINER - valve spring	2
21	KO 240013	LOCK - valve retainer	4
22	KOD 235327	LIFTER ASSEMBLY	2
23	NSS	SCREW - tappet adjusting	1
24	NSS	LIFTER - valve	1
25	KOE 235646	CAMSHAFT ASSEMBLY	1
26	KO 275066	SPACER - camshaft, .005"	UAR
26	KO 275067	SPACER - camshaft, .010"	UAR
27	KO 235053	PIN - camshaft	1
28	KO 232770	SPRING - actuating	1
29	KO 230265	INSERT - intake valve seat	1

222 CAMSHAFT AND VALVES

37	KO 235826	VALVE - exhaust	1
38	KO 235008	VALVE - intake	1
39	KO 230170	INSERT - exhaust valve seat	1
40	KO 235007-S	GUIDE - valve	2
41	KO 235011	SEAT - valve spring	2
42	KO 235010	SPRING - valve	2
43	KO 230011	RETAINER - valve spring	2
44	KO 240013	LOCK - valve retainer	4
45	KOD 235327	LIFTER ASSEMBLY	2
46	NSS	SCREW - tappet adjusting	1
47	NSS	LIFTER - valve	1
48	KOE 235646	CAMSHAFT ASSEMBLY	1
49	KO 275066	SPACER - camshaft, .005"	UAR
49	KO 275067	SPACER - camshaft, .010"	UAR
50	KO 235053	PIN - camshaft	1
51	KO 232770	SPRING - actuating	1
52	KO 230265	INSERT - intake valve seat	1

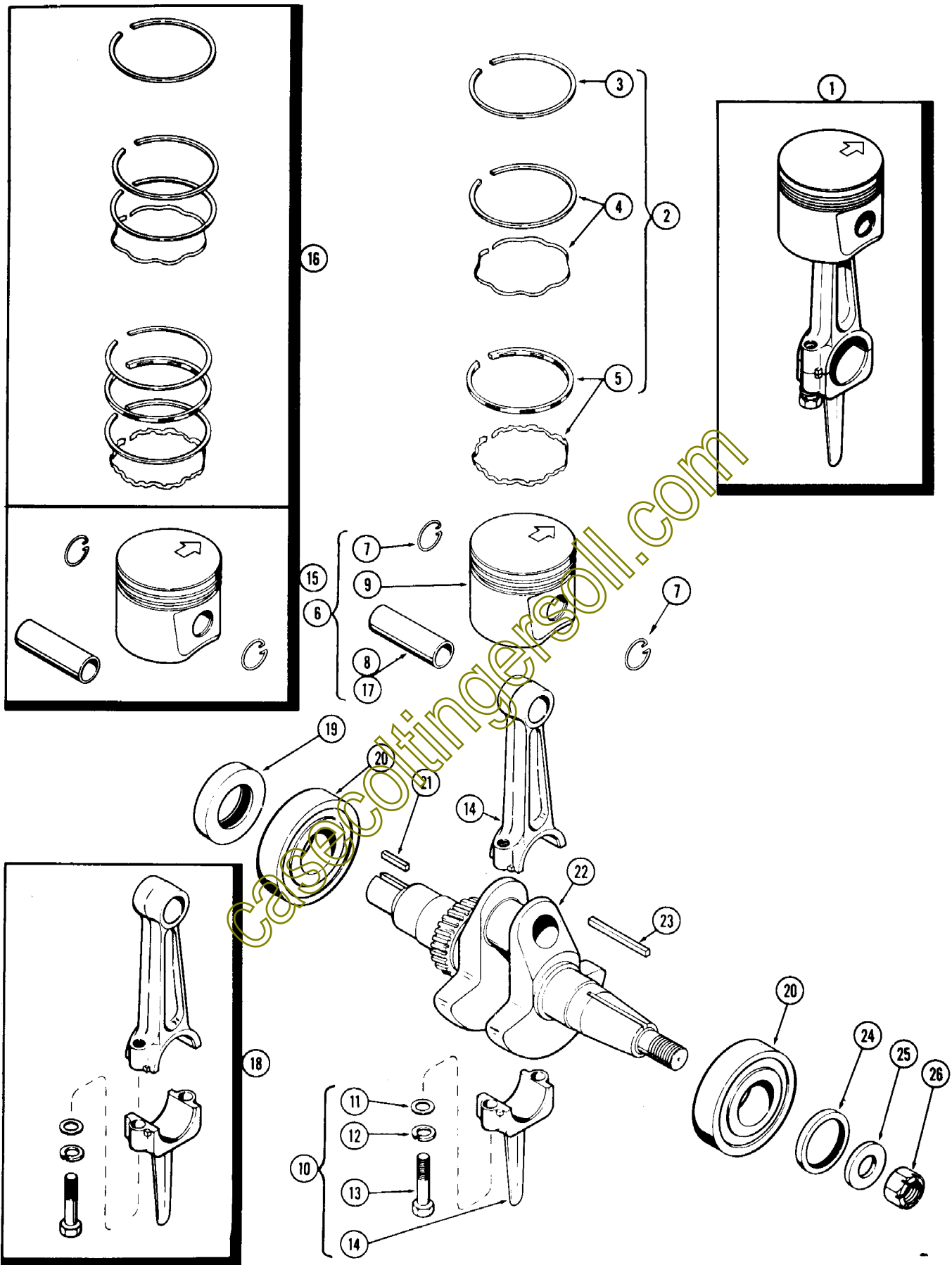


224 AND 444 CRANKCASE BREATHER

REF.	PART NO.	DESCRIPTION	REQ'D
1	25- 104	NUT - 1/4" NC hex	1
2	92- 4	LOCKWASHER - 1/4"	1
3	KO 275220	STUD - valve cover	1
4	KO 275143	COVER - valve	1
5	KO 231032	SEAL - breather	1
6	KO 235048	GASKET - breather plate	1
7	KO 235118	FILTER - breather	1
8	KO 235117	BAFFLE - breather	1
9	KO 235047	REED - breather	1
10	KO 235631	PLATE - breather	1
11	KO 275144	GASKET - valve cover	1

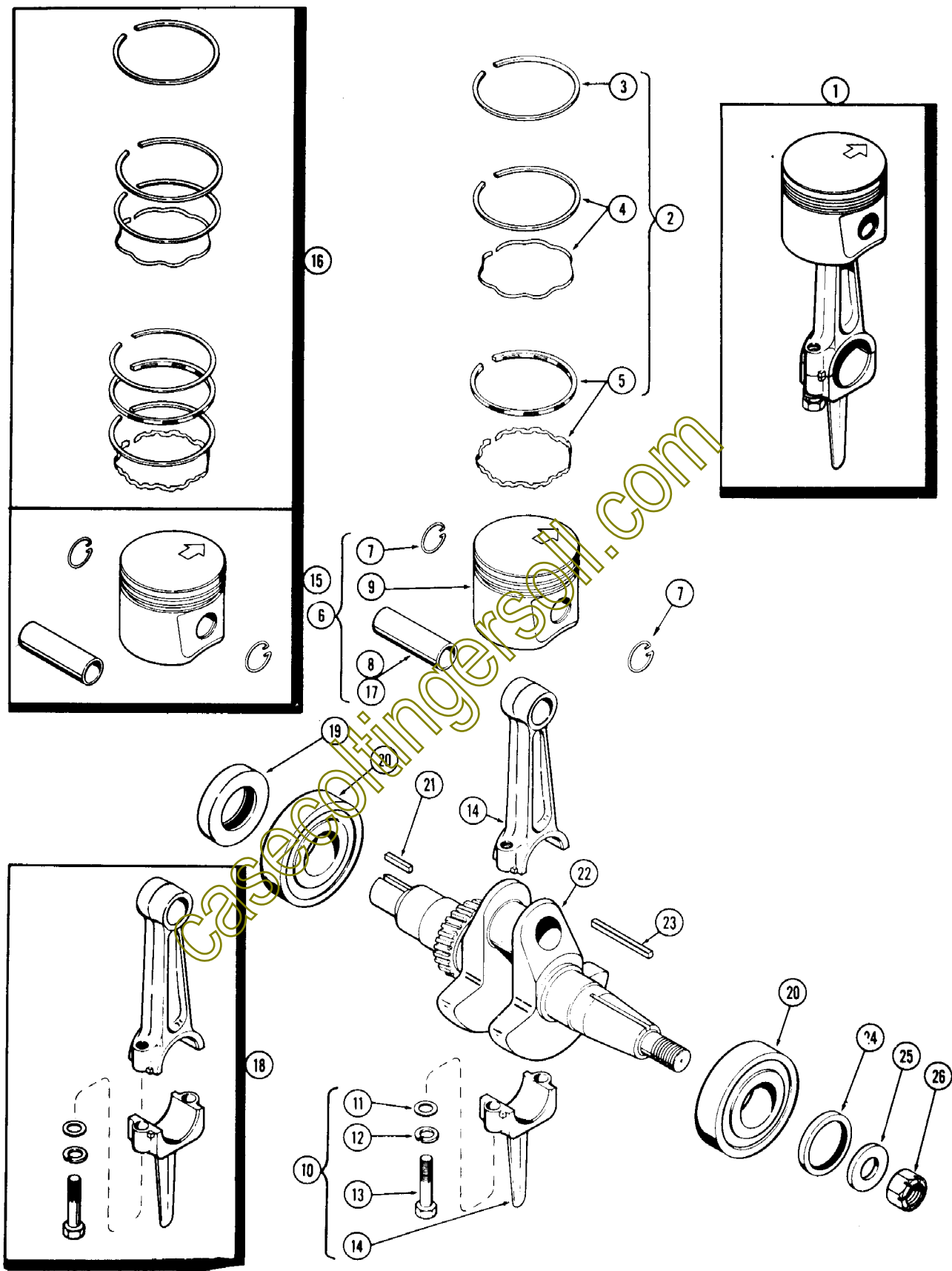
224 AND 444 CAMSHAFT AND VALVES

14	KO 237672	VALVE - exhaust	1
15	KO 235582	VALVE - intake	1
16	KO 230170	INSERT - exhaust valve seat	1
17	KO 235007-S	GUIDE - valve	2
18	KO 235011	SEAT - valve spring	2
19	KO 235168	SPRING - valve	2
20	KO 230020	ROTATOR - valve (Furnished in pairs only)	2
21	KO 240013	LOCK - valve retainer	2
22	KOD 235327	LIFTER ASSEMBLY	2
23	NSS	SCREW - tapped adjusting	1
24	NSS	LIFTER - valve	1
25	KOE 235646	CAMSHAFT ASSEMBLY	1
26	KO 232770	SPRING - actuating	1
27	KO 275066	SPACER - camshaft, .005"	UAR
27	KO 275067	SPACER - camshaft, .010"	UAR
28	KO 235053	PIN - camshaft	1
29	KO 230265	INSERT - intake valve seat	1



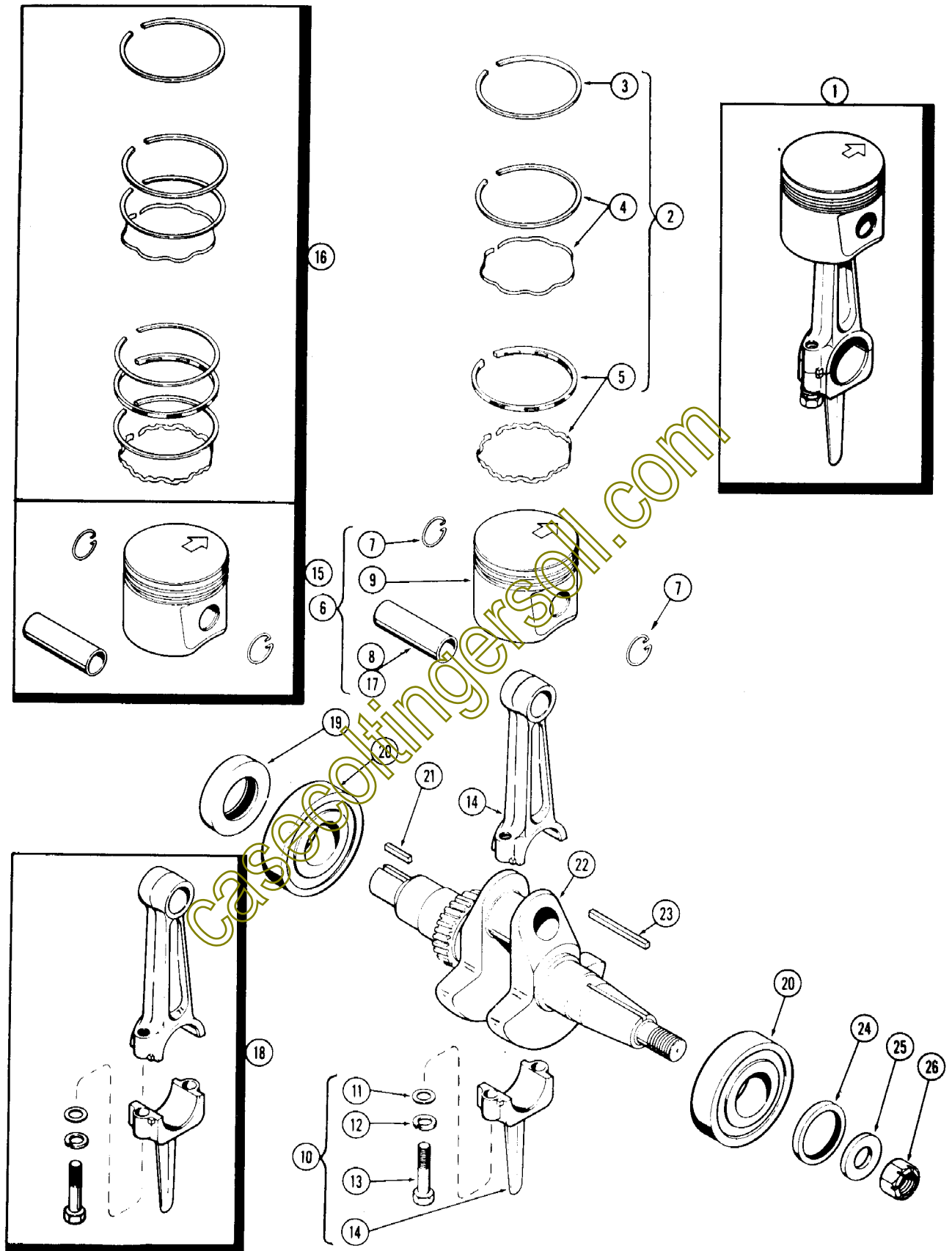
220 CRANKSHAFT, PISTON – CONNECTING ROD

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PISTON AND ROD ASSEMBLY (Std. size)	1
2	KO 235287	RING SET - piston (For oversize, see item 16)	1
3	NSS	RING - top compression	1
4	NSS	RING - 2nd compression (Includes expander)	1
5	NSS	RING - oil (Includes expander)	1
6	KOA 235611	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235004	RETAINER - piston pin	2
8	KO 235572	PIN - piston	1
9	NSS	PISTON	1
10	KOA 235139	CONNECTING ROD ASSEMBLY (For undersize, see item 18)	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER	2
13	KO 236611	SCREW - cap, connecting rod	2
14	NSS	ROD - connecting	1
15	KOA 235569	PISTON ASSEMBLY - .010" oversize.	1
15	KOA 235571	PISTON ASSEMBLY - .020" oversize.	1
15	KOA 235616	PISTON ASSEMBLY - .030" oversize.	1
15	KOA 235567	PISTON ASSEMBLY - .003" oversize (order KO235287 standard ring set)	1
16	KO 235288	RING SET - piston .010" oversize	1
16	KO 235289	RING SET - piston .020" oversize	1
16	KO 235290	RING SET - piston .030" oversize	1
17	KO 235573	PIN - piston, .005" oversize	1
18	C 18101	CONNECTING ROD ASSEMBLY - .010" undersize	1
19	R 16287	OIL SEAL - crankshaft rear	1
20	40035	BEARING - crankshaft ball	2
21	W 5063-S	KEY - 1/4" Sq. x 3/4" (Pump Coupling)	1
22	KOB 236364	CRANKSHAFT	1
23	A 27001	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel)	1
24	C 18097	OIL SEAL - crankshaft front	1
25	C 18095	WASHER - 5/8"	1
26	131- 309	NUT - special Marsden 5/8" NF	1



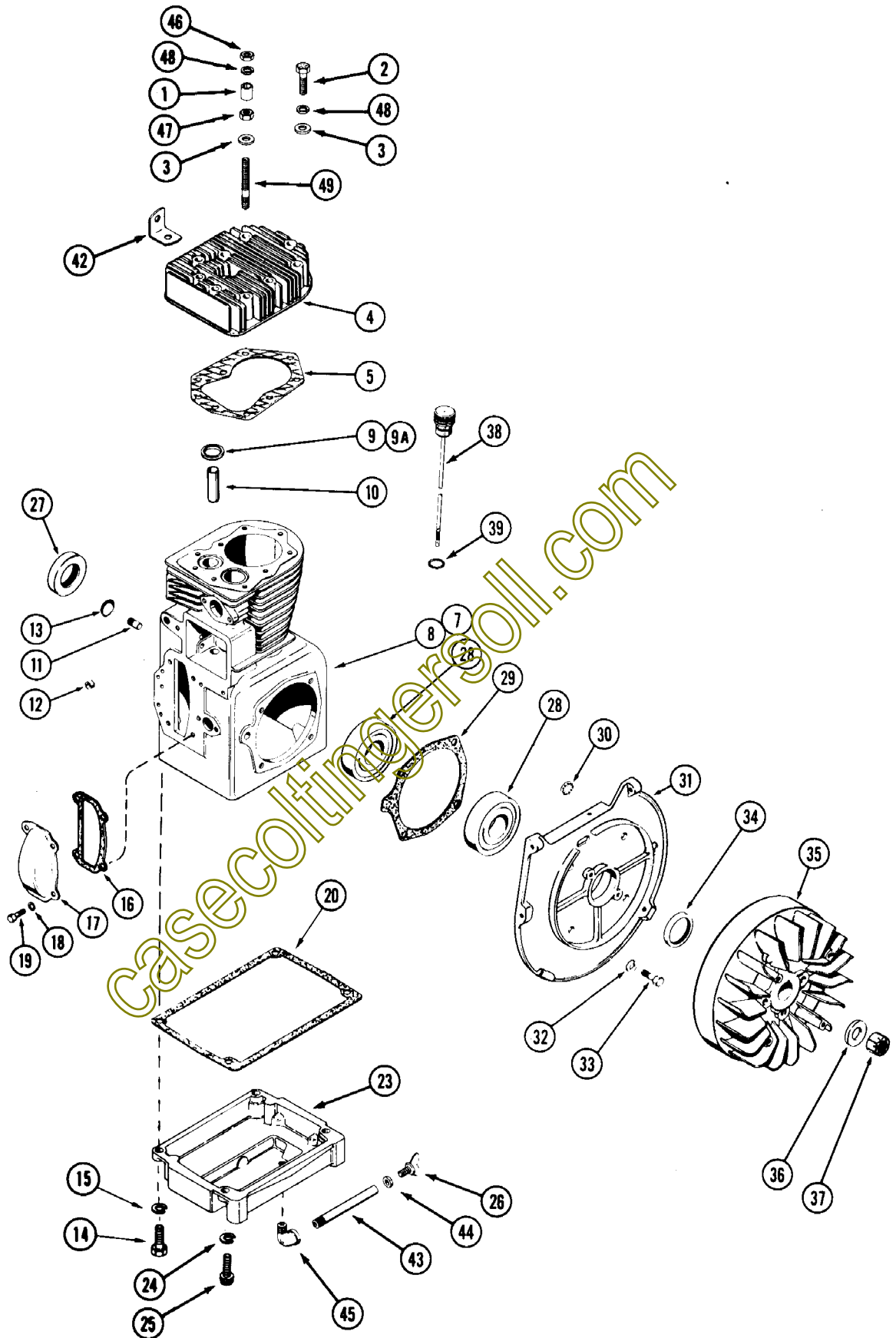
222 CRANKSHAFT, PISTON – CONNECTING ROD

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PISTON AND ROD ASSEMBLY (Std. size)	1
2	KO 235889	RING SET - piston (For oversize, see item 16)	1
3	NSS	RING - top compression	1
4	NSS	RING - 2nd compression (Includes expander)	1
5	NSS	RING - oil (Includes expander)	1
6	KOA 235827	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235811	RETAINER - piston pin	2
8	KO 235803	PIN - piston.	1
9	NSS	PISTON	1
10	KOA 237344	CONNECTING ROD ASSEMBLY (For undersize, see item 18).	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER.	2
13	KO 236611	SCREW - cap, connecting rod	2
14	NSS	ROD - connecting	1
15	KOA 235865	PISTON ASSEMBLY - .010" oversize	1
15	KOA 235866	PISTON ASSEMBLY - .020" oversize	1
15	KOA 235867	PISTON ASSEMBLY - .030" oversize	1
15	KOA 235864	PISTON ASSEMBLY - .003" oversize (order KO235889 standard ring set)	1
16	KO 235890	RING SET - piston .010" oversize	1
16	KO 235891	RING SET - piston .020" oversize	1
16	KO 235892	RING SET - piston .030" oversize	1
17	KO 235868	PIN - piston .005" oversize.	1
18	C 18102	CONNECTING ROD ASSEMBLY - .010" Undersize	1
19	R 16287	OIL SEAL - crankshaft rear	1
20	40035	BEARING - crankshaft ball	2
21	W 5063-S	KEY - 1/4" Sq. x 3/4" (Pump Coupling)	1
22	KOB 235949	CRANKSHAFT	1
23	A 27001	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel).	1
24	C 18097	OIL SEAL - crankshaft front	1
25	C 18095	WASHER - 5/8"	1
26	131- 309	NUT - special Marsden 5/8" NF.	1



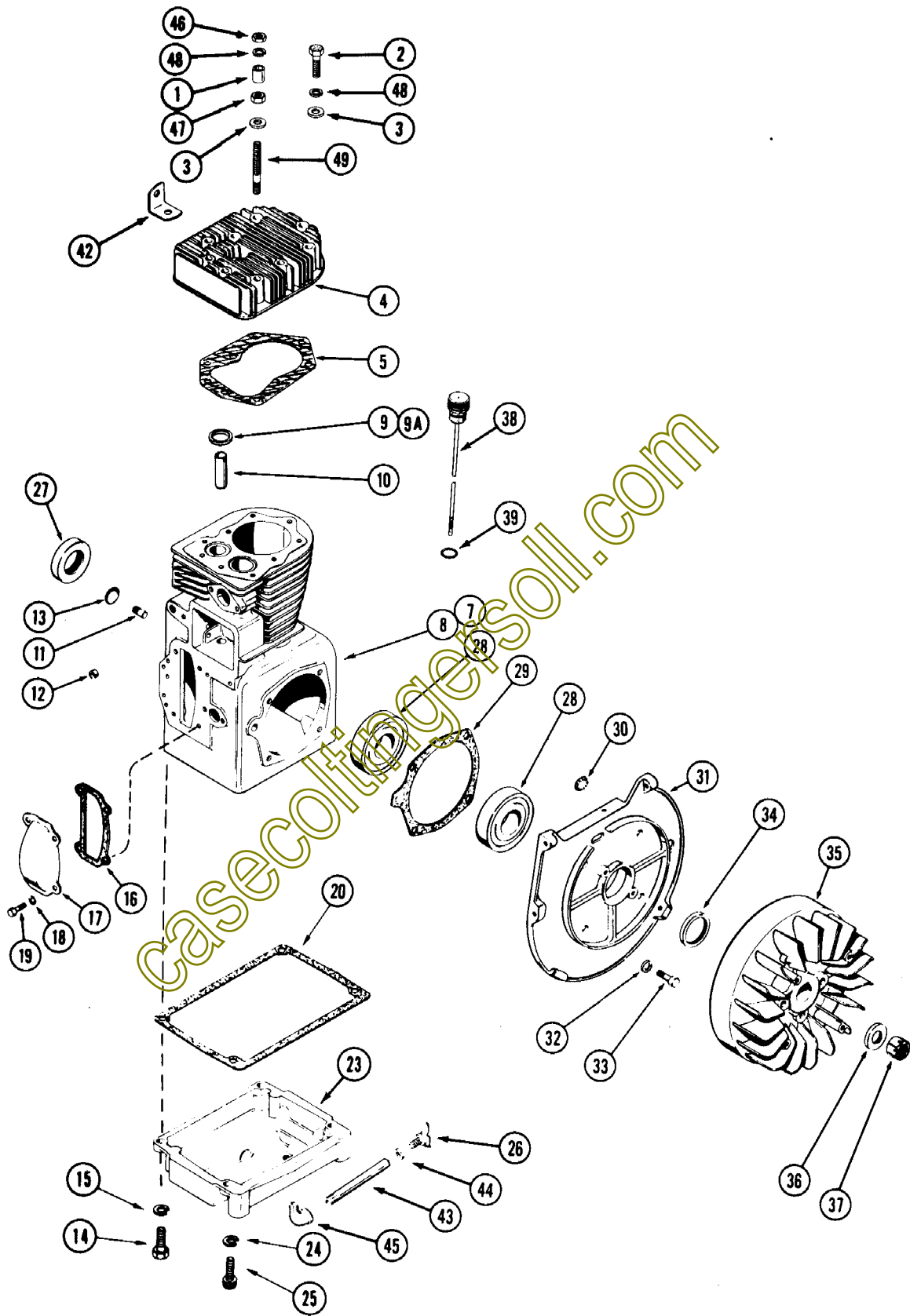
224 AND 444 CRANKSHAFT, PISTON – CONNECTING ROD

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PISTON AND ROD ASSEMBLY (Std. size)	1
2	KO 236763	RING SET - piston (For oversize, see item 16)	1
3	NSS	RING - top compression	1
4	NSS	RING - 2nd compression (Includes expander)	1
5	NSS	RING - oil (Includes expander)	1
6	KOA 237401	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235811	RETAINER - piston pin	2
8	KO 235803	PIN - piston	1
9	NSS	PISTON	1
10	KOA 237344	CONNECTING ROD ASSEMBLY (For undersize, see item 18)	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER - 3/8"	2
13	KO 236611	SCREW - cap, connecting rod	2
14	NSS	ROD - connecting	1
15	KOA 237403	PISTON ASSEMBLY - .010" oversize	1
15	KOA 237404	PISTON ASSEMBLY - .020" oversize	1
15	KOA 237405	PISTON ASSEMBLY - .030" oversize	1
15	KOA 237402	PISTON ASSEMBLY - .003" oversize (order KO236763 standard ring set)	1
16	KO 236764	RING SET - piston .010" oversize	1
16	KO 236765	RING SET - piston .020" oversize	1
16	KO 236766	RING SET - piston .030" oversize	1
17	KO 235868	PIN - piston .005" oversize	1
18	C 18102	CONNECTING ROD ASSEMBLY - .010" undersize	1
19	R 16287	OIL SEAL - crankshaft rear	1
20	40035	BEARING - crankshaft ball	2
21	W 5063-S	KEY - 1/4" Sq. x 3/4" (Pump Coupling)	1
22	KOB 237034	CRANKSHAFT	1
23	A 27001	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel)	1
24	C 18097	OIL SEAL - crankshaft front	1
25	C 18095	WASHER - 5/8"	1
26	131- 309	NUT - special Marsden 5/8" NF	1



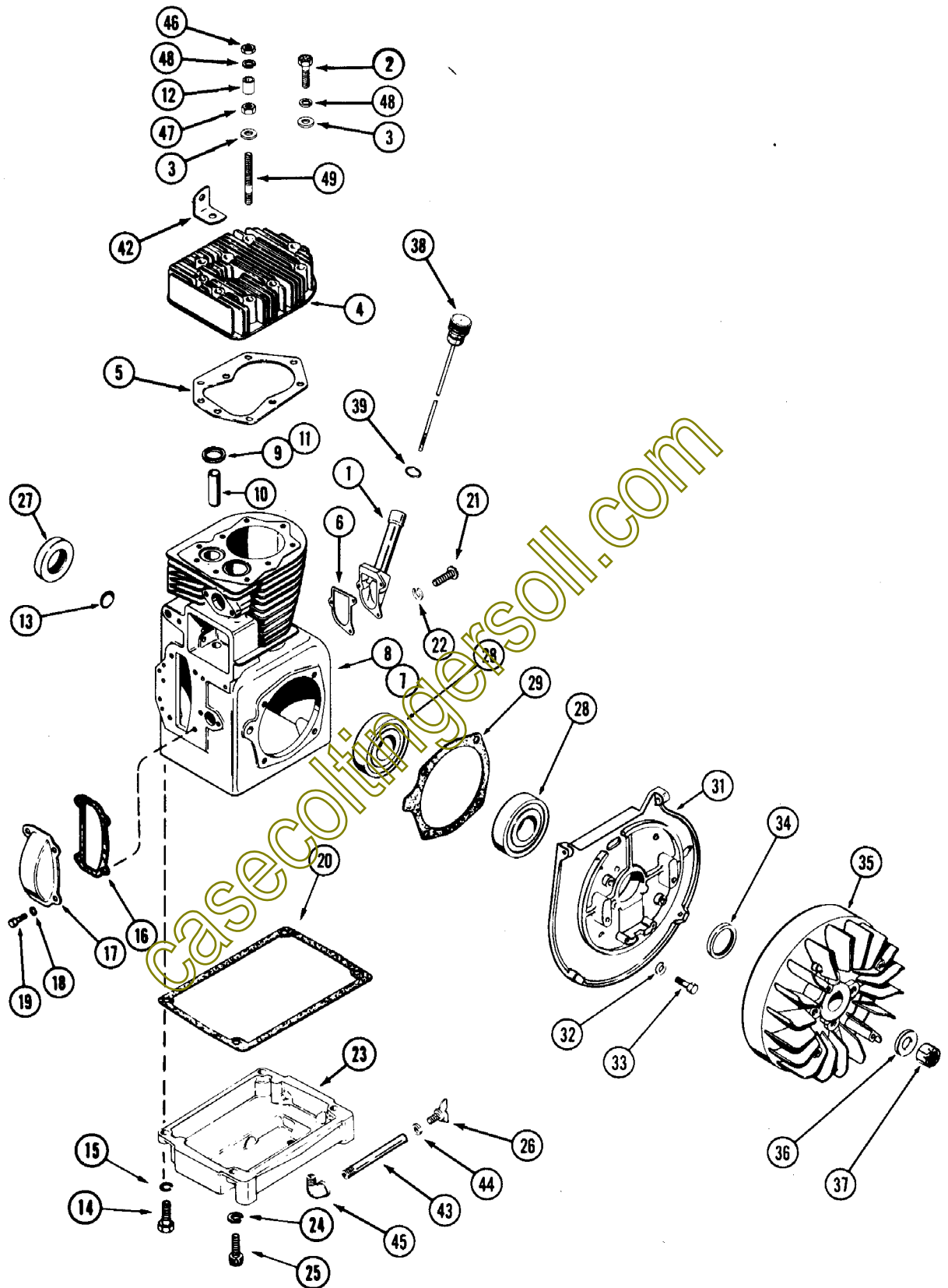
220 ENGINE BLOCK AND ATTACHING PARTS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 21814	SPACER - cylinder head	6
2	KO 270158	BOLT - cylinder head	3
3	KO 270889	WASHER - cylinder head	9
4	KO 236675	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
7	KOB 236303	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft, rod assembly, camshaft, valves, bearings and plate)	1
8	KOA 235871	BLOCK ASSEMBLY - cylinder, standard bore	1
9	KO 230170	INSERT - exhaust valve	1
9A	KO 230265	INSERT - intake valve seat	1
10	KO 235007-S	GUIDE - valve	2
11	KO 235125-S	SHAFT - stub governor	1
12	C 18103	BEARING - needle, governor shaft	1
13	41- 18	PLUG - expansion	1
14	113- 206	BOLT - 3/8" x 1-1/4" NC hex plated	4
15	192- 21	LOCKWASHER - 3/8" plated	4
16	KO 235025	GASKET - camshaft cover	1
17	KO 235026	COVER - camshaft gear	1
18	192- 19	LOCKWASHER - 1/4" plated	4
19	113- 6	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan	1
23	KO 237808	BASE - oil pan	1
24	192- 21	LOCKWASHER - 3/8" plated	4
25	61- 616	BOLT - 3/8" x 1" NC socket head	4
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - shim, bearing plate .010"	1
29	KO 235070	GASKET - shim .010"	UAR
30	205- 27	PLUG - button, timing hole	1
31	C 22034	PLATE - bearing	1
32	192- 21	LOCKWASHER - 3/8" plated	4
33	113- 207	BOLT - 3/8" x 1" NC plated	4
34	C 18097	OIL SEAL - crankshaft front	1
35	KO 235818	FLYWHEEL	1
36	195- 545	WASHER - special, plated	1
37	131- 309	NUT - special, Marsden	1
38	C 14953	DIPSTICK ASSEMBLY	1
39	A 27365	"O" RING - dipstick	1
42	KO 285748	STRAP - lifting	1
43	C 18814	NIPPLE - oil drain extension	1
44	C 14906	GASKET - plug, oil drain	1
45	221- 1412	ELBOW - street	1
46	129- 143	NUT - 3/8" NC hex. jam	6
47	129- 103	NUT - 3/8" NC hex	6
48	192- 21	LOCKWASHER - 3/8"	9
49	KO 237277	STUD - cylinder head	6



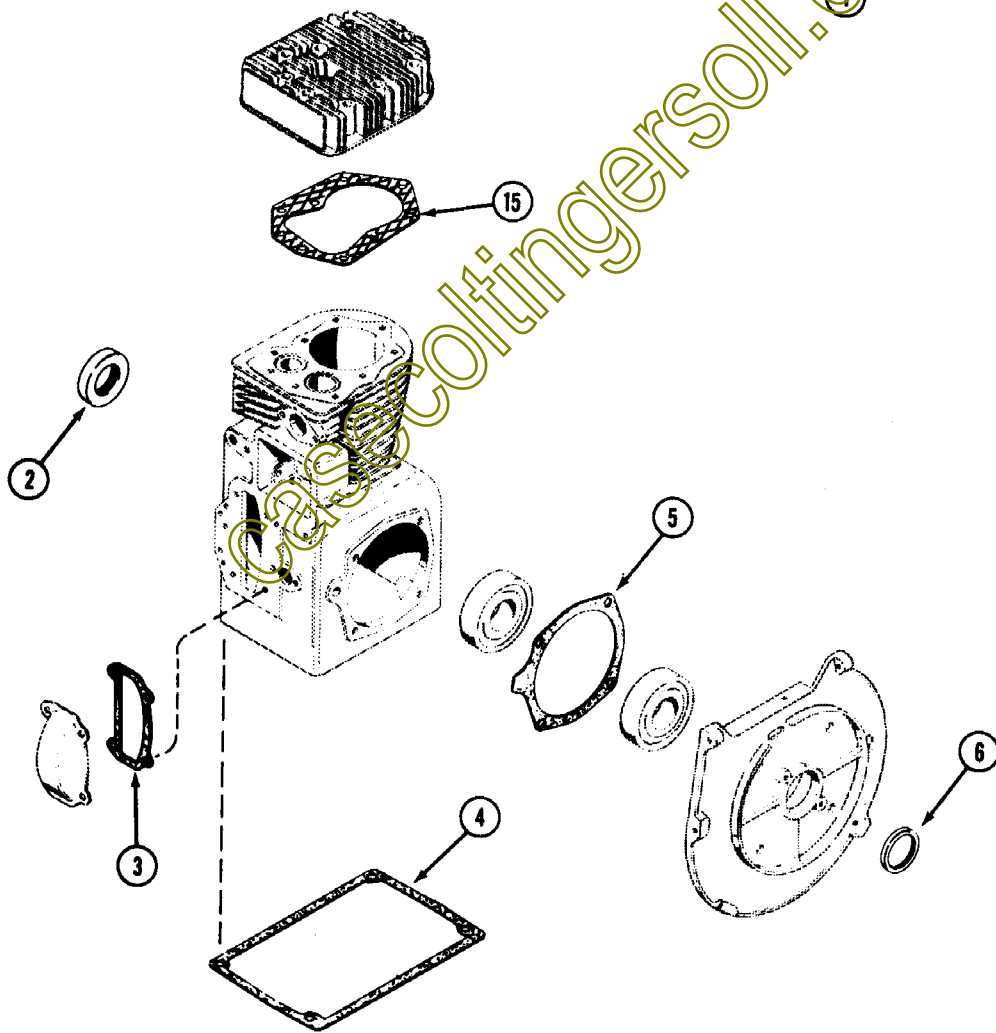
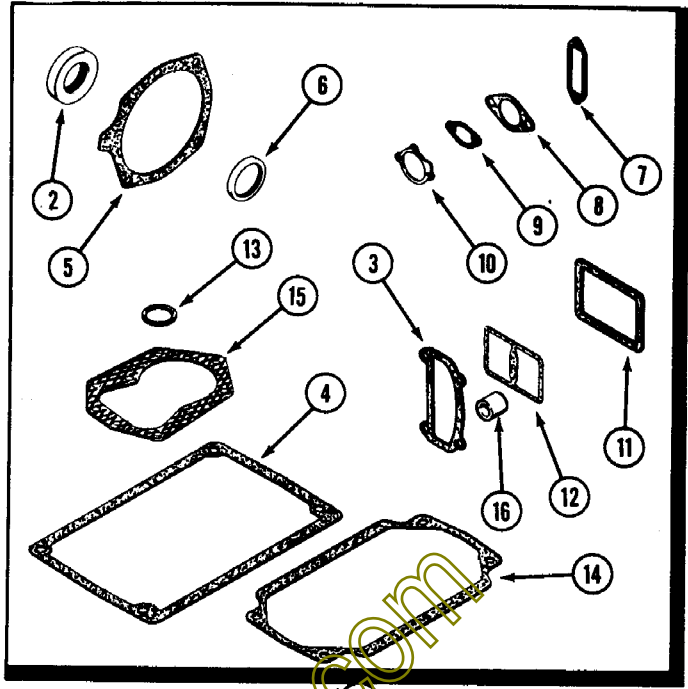
222 ENGINE BLOCK AND ATTACHING PARTS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 21814	SPACER - cylinder head	6
2	KO 270158	BOLT - cylinder head 3/8" x 1-1/2" NC hex	3
3	KO 270889	WASHER - cylinder head	9
4	KO 237670	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
7	KOB 236293	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft, rod assembly, camshaft, valves, bearings and plate)	1
8	KOA237127-S	BLOCK ASSEMBLY - cylinder, standard bore	1
9	KO 230170	INSERT - exhaust valve	1
9A	KO 230265	INSERT - intake valve seat	1
10	KO 235007-S	GUIDE - valve	2
11	KO 235125-S	SHAFT - stub governor	1
12	C 18103	BEARING - needle, governor shaft	1
13	41- 18	PLUG - expansion	1
14	113- 206	BOLT - 3/8" x 1-1/4" NC hex plated	4
15	192- 21	LOCKWASHER - 3/8" plated	4
16	KO 235025	GASKET - camshaft cover	1
17	KO 235026	COVER - camshaft gear	1
18	192- 19	LOCKWASHER - 1/4" plated	4
19	113- 6	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan	1
23	KO 237808	BASE - oil pan	1
24	192- 21	LOCKWASHER - 3/8" plated	4
25	61- 616	BOLT - 3/8" x 1" NC socket head	4
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - shim, bearing plate .010"	6
29	KO 235070	GASKET - shim, .020"	UAR
30	205- 27	PLUG - button, timing hole	1
31	C 22034	PLATE - bearing	1
32	192- 21	LOCKWASHER - 3/8" plated	4
33	113- 207	BOLT - 3/8" x 1" NC plated	4
34	C 18097	OIL SEAL - crankshaft front	1
35	KO 235818	FLYWHEEL	1
36	195- 545	WASHER - special, plated	1
37	131- 309	NUT - special, Marsden	1
38	C 14953	DIPSTICK ASSEMBLY	1
39	A 27365	"O" RING - dipstick	1
42	KO 235748	STRAP - lifting	1
43	C 18814	NIPPLE - oil drain extension	1
44	C 14906	GASKET - plug, oil drain	1
45	221- 1412	ELBOW - street	1
46	129- 143	NUT - 3/8" NC hex, jam	6
47	129- 103	NUT - 3/8" NC hex	6
48	192- 21	LOCKWASHER - 3/8	9
49	KO 237277	STUD - cylinder head	6



224 AND 444 ENGINE BLOCK AND ATTACHING PARTS

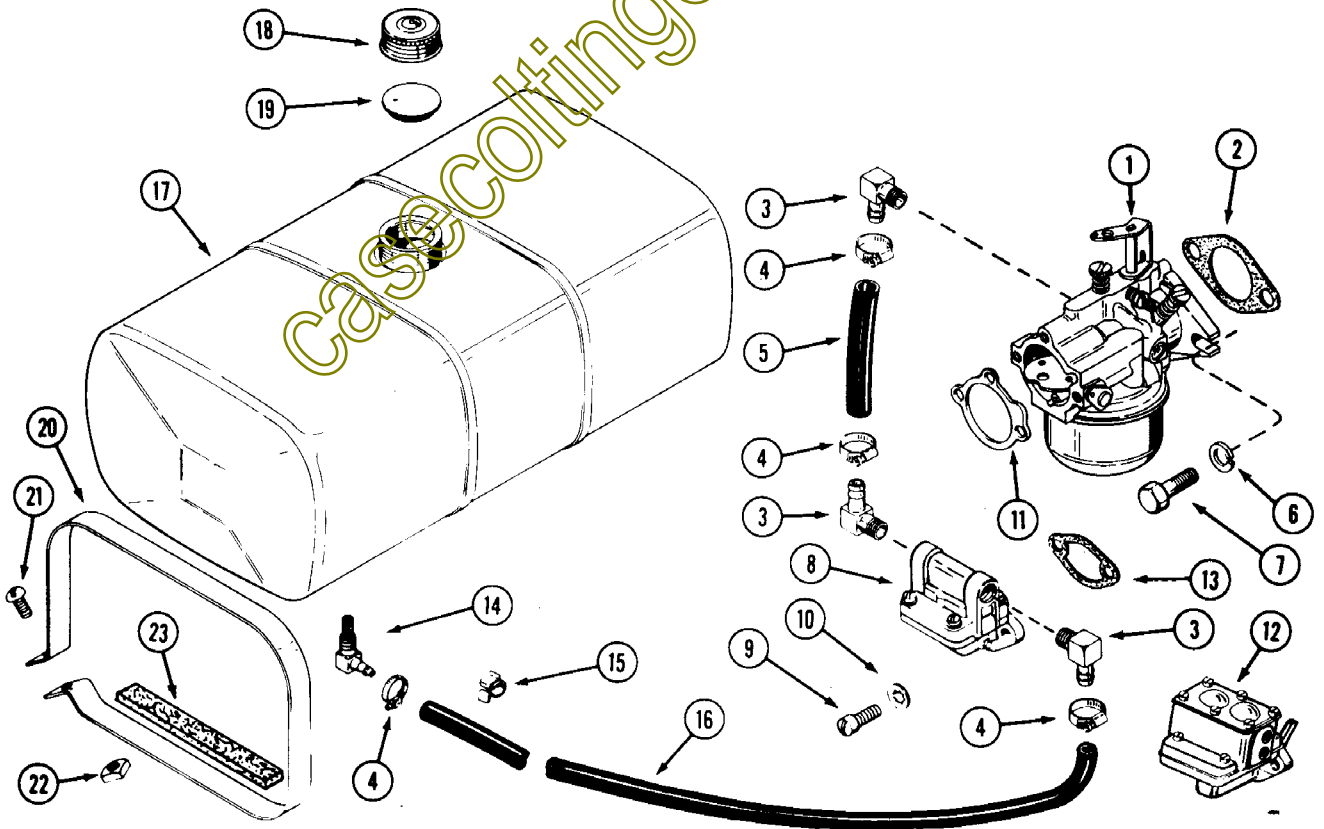
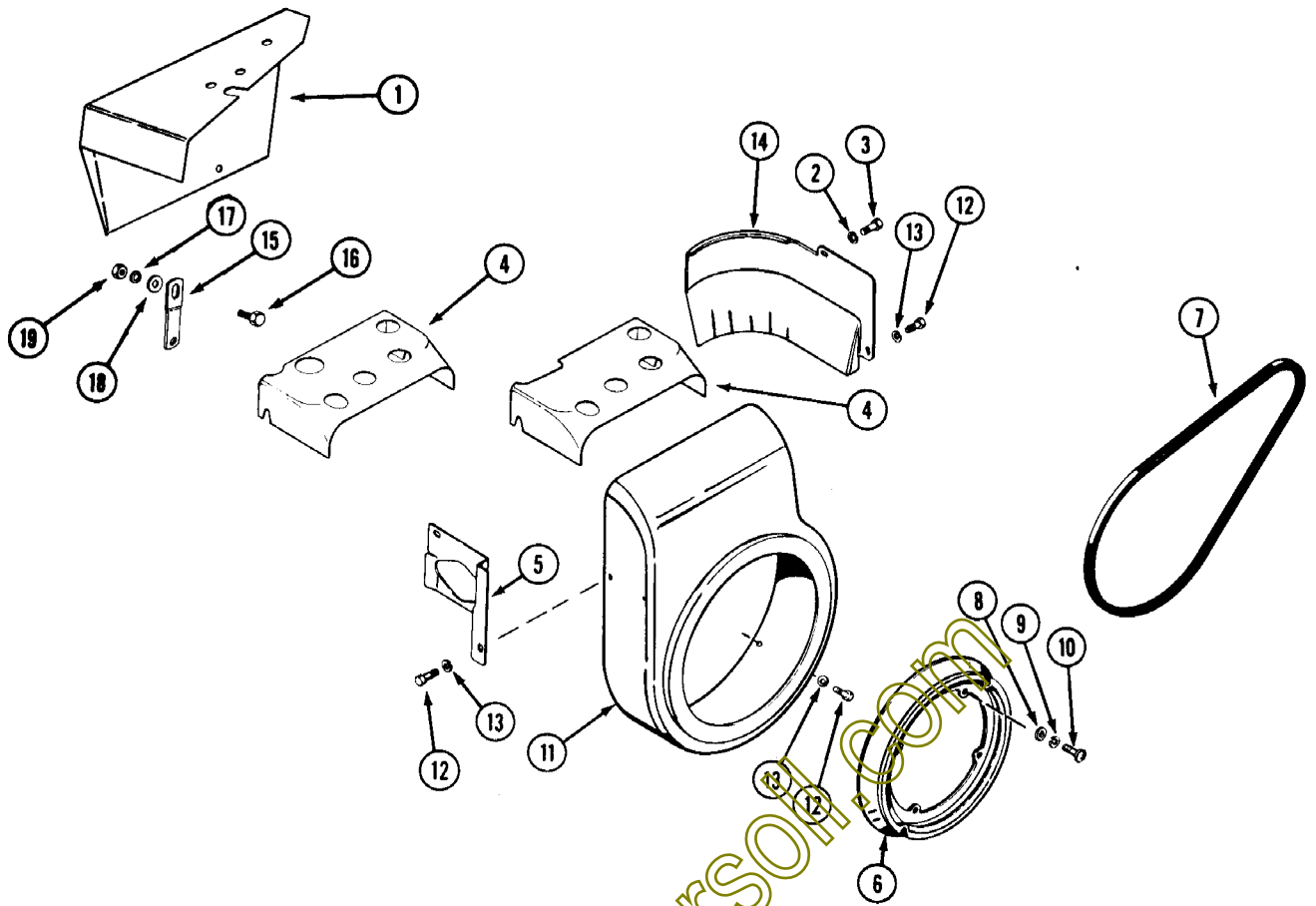
REF.	PART NO.	DESCRIPTION	REQ'D
1	KO 236886	FILLER TUBE	1
2	KO 270158	BOLT - cylinder head special 3/8" x 1-1/2" NC hex	9
3	KO 270889	WASHER - cylinder head bolt.	10
4	KO 237670	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
6	KO 237064	GASKET - filler tube.	1
7	KOB 237182	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft, piston, rod assembly, camshaft, valves, bearings and plate)	1
8	KOA 237033-S	BLOCK ASSEMBLY - cylinder, standard bore	1
9	KO 230170	INSERT - exhaust valve.	1
10	KO 235007-S	GUIDE - valve	2
11	KO 230265	INSERT - intake valve.	1
12	C 21814	SPACER - cylinder head	1
13	41- 18	PLUG - expansion	1
14	113- 206	BOLT - 3/8" x 1-1/4" NC hex plated.	4
15	192- 21	LOCKWASHER - 3/8" plated.	4
16	KO 235025	GASKET - camshaft cover	1
17	KO 235026	COVER - camshaft gear.	1
18	192- 19	LOCKWASHER - 1/4" plated.	4
19	113- 6	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan.	1
21	173- 221	SCREW - #10 x 7/16" round head machine	3
22	193- 26	LOCKWASHER - #10 internal tooth	7
23	KO 237808	BASE - oil pan.	1
24	192- 21	LOCKWASHER - 3/8" plated.	4
25	61- 616	BOLT - 3/8" x 1" NC socket head.	4
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - shim, bearing plate .312"	1
29	KO 235070	GASKET - shim, 0.10"	UAR
31	C 21815	PLATE - bearing	1
32	192- 21	LOCKWASHER - 3/8" plated.	4
33	113- 207	BOLT - 3/8" x 1" NC plated	4
34	C 18097	OIL SEAL - crankshaft front	1
35	KO 235818	FLYWHEEL	1
36	195- 545	WASHER - special, plated 21/32" ID x 1-3/8" OD x 1/4"	1
37	131- 309	NUT - special Marsden 5/8"	1
38	C 14954	DIPSTICK ASSEMBLY.	1
39	A 27365	"O" RING - dipstick.	1
42	KO 235748	STRAP - lifting	1
43	C 18814	NIPPLE - oil drain extension	1
44	C 14906	GASKET - plug, oil drain	1
45	221- 1412	ELBOW - street	1
46	129- 143	NUT - 3/8" NC hex, jam	6
47	129- 103	NUT - 3/8" NC hex	6
48	192- 21	LOCKWASHER - 3/8"	9
49	KO 237277	STUD - cylinder head	6



ENGINE GASKET AND SEAL KIT

REF.	PART NO.	DESCRIPTION	REQ'D
1	KO 237727	KIT - engine gasket (10 thru 14 hp engines)	1
2	R 16287	SEAL - crankshaft, rear	1
3	KO 235025	GASKET - camshaft cover	1
4	KO 235353	GASKET - oil pan	1
5	KO 235757	GASKET - shim, bearing plate (.010")	6
5	KO 235070	GASKET - shim (.010")	UAR
6	C 18097	SEAL - crankshaft, front	1
7	KO 220174	GASKET - breaker cover	1
8	A 72100	GASKET - carburetor flange.	1
9	A 72108	GASKET - fuel pump flange.	1
10	KO 275341	GASKET - carburetor air horn	1
11	KO 235048	GASKET - breather plate	1
12	KO 275144	GASKET - valve cover.	1
13	B 53393	GASKET - fuel strainer bowl (not used)	1
14	KO 235057	GASKET - pan (not used)	1
15	KO 237658	GASKET - cylinder head (10 and 12 hp engines)	1
16	KO 231032	SEAL - breather (14 hp engine)	1

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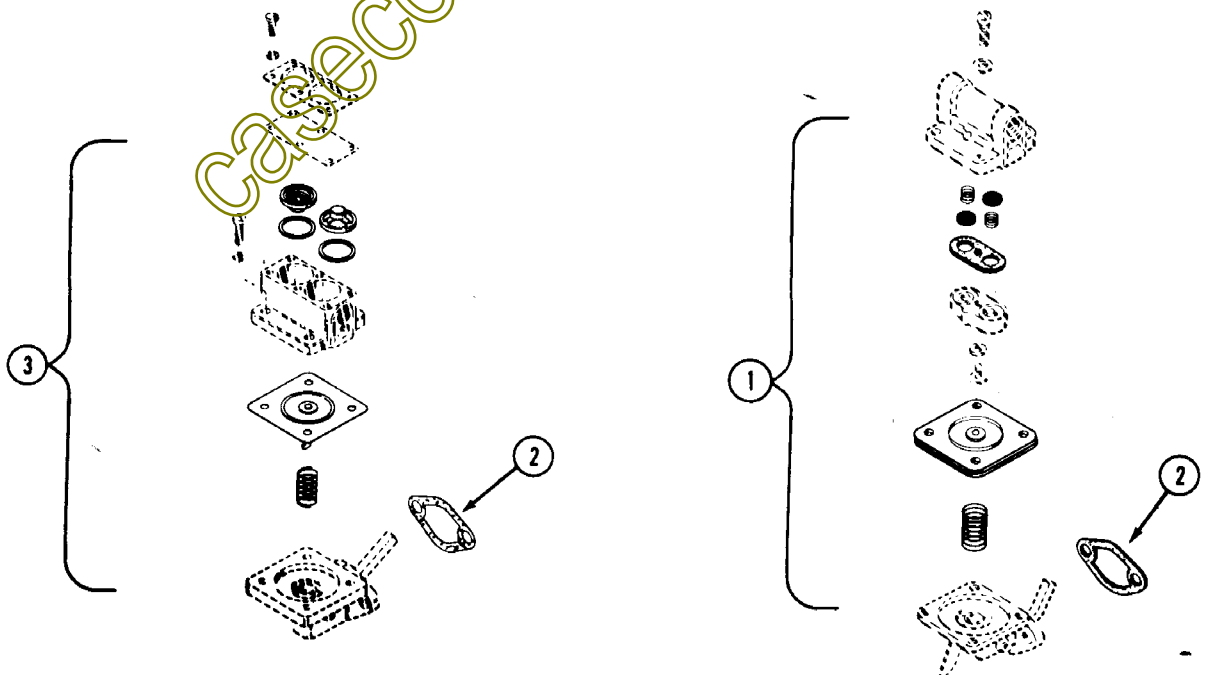
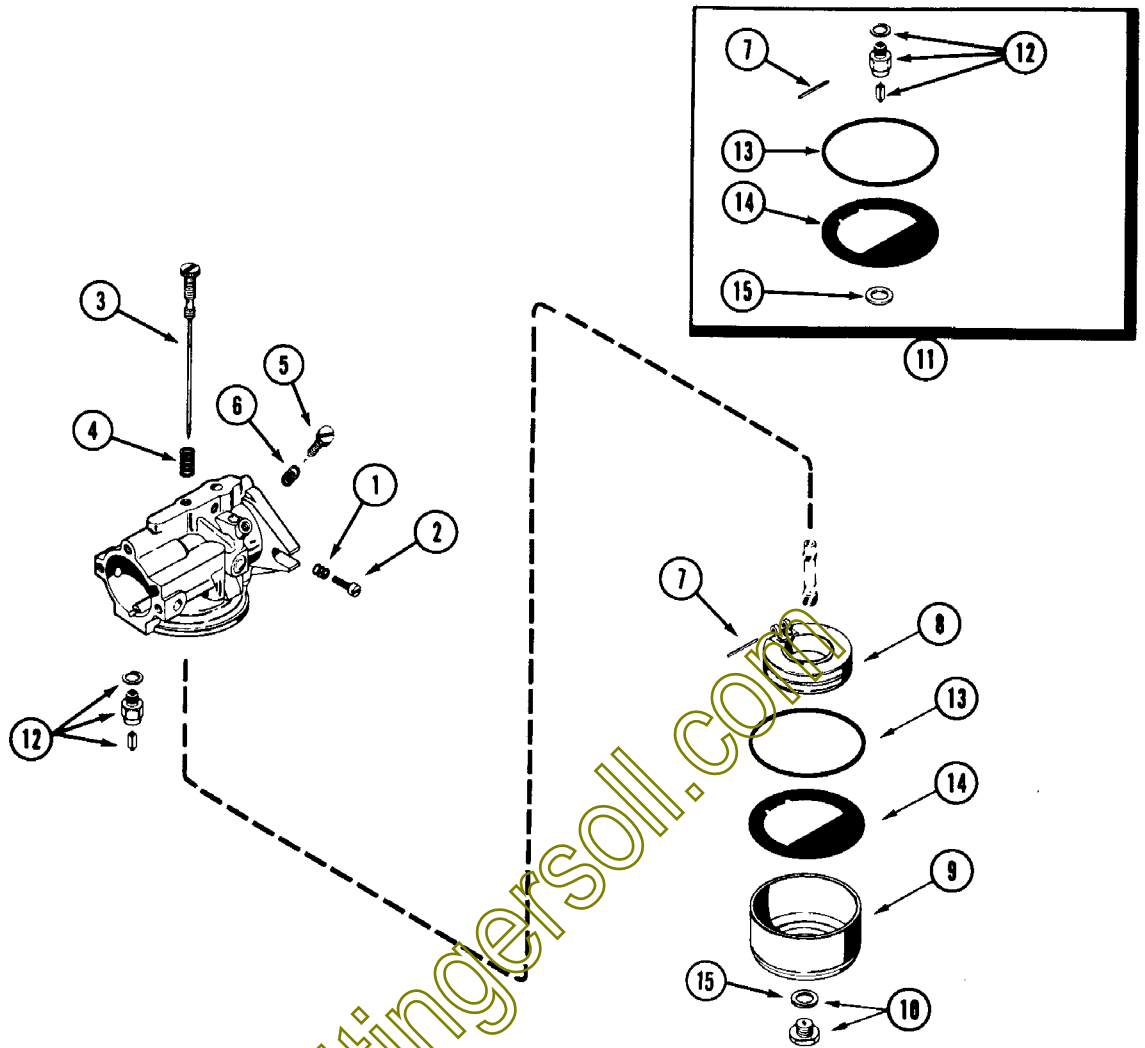


BAFFLES AND SHROUDS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18989	DEFLECTOR - engine air	1
2	192- 19	LOCKWASHER - 1/4" zinc plated.	2
3	113- 6	BOLT - 1/4" x 1/2" NC hex, zinc plated.	2
4	KO 237520	BAFFLE - cylinder head (10 hp engine)	1
4	KO 237677	BAFFLE - cylinder head (12 - 14 hp engine)	1
5	KO 235652	BAFFLE - carburetor side air	1
6	KO 235207	PULLEY - starter	1
7	C 14345	BELT - drive, starter - generator	1
8	195- 515	WASHER - 1/4" zinc plated	4
9	192- 19	LOCKWASHER - 1/4" zinc plated	4
10	175- 436	SCREW - 1/4" x 5/8" NC truss head Phillips, zinc plated	4
11	KO 235901	HOUSING - blower	1
12	113- 2	BOLT - 1/4" x 3/4" NC hex, zinc plated	4
13	192- 19	LOCKWASHER - 1/4" zinc plated	4
14	KO 235054	BAFFLE - cylinder	1
15	C 19021	SUPPORT - engine air deflector	1
16	113- 118	BOLT - 5/16" x 5/8" NC hex	1
17	192- 20	LOCKWASHER - 5/16"	1
18	195- 521	WASHER - 5/16" plain	1
19	129- 102	NUT - 5/16" NC hex.	1

FUEL SYSTEM

1	C 21816	CARBURETOR ASSEMBLY - 444 & 224 (Repairs page 27)	1
1	A 72073	CARBURETOR ASSEMBLY - 220 & 222 (Repairs page 27)	1
2	A 72100	GASKET - carburetor flange	1
3	C 10678	ELBOW - fuel pump and carburetor	3
4	214- 251	CLAMP - hose 1/2"	4
5	C 15007	HOSE - carburetor 5-1/4"	1
6	192- 20	LOCKWASHER 5/16"	2
7	113- 103	BOLT - 5/16" x 1" NC hex	2
8	KOA 235845	PUMP - fuel, 10 h.p. models (Repairs page 27)	1
9	71- 410	SCREW - 1/4" x 5/8" NC fillister head	2
10	193- 60	LOCKWASHER - 1/4"	2
11	KO 275341	GASKET - air horn	1
12	KOA 236205	PUMP - fuel, 12 and 14 h.p. models (Repairs page 27)	1
13	A 72108	GASKET - fuel pump mounting, all models	1
14	C 10657	ELBOW ASSEMBLY - fuel tank	1
15	A 62079	CLIP - fuel line.	2
16	C 17574	HOSE - fuel line 43"	1
17	C 16363	TANK - fuel	1
18	C 11529	CAP - fuel tank (Includes insert)	1
19	C 11545	INSERT - fuel cap	1
20	C 16796	STRAP - fuel tank mounting	2
21	173- 215	SCREW - 1/4 x 1/2" NC round head, machine, zinc plated	2
22	129- 504	NUT - square 1/4" NC	2
23	C 14690	CUSHION - fuel tank	2

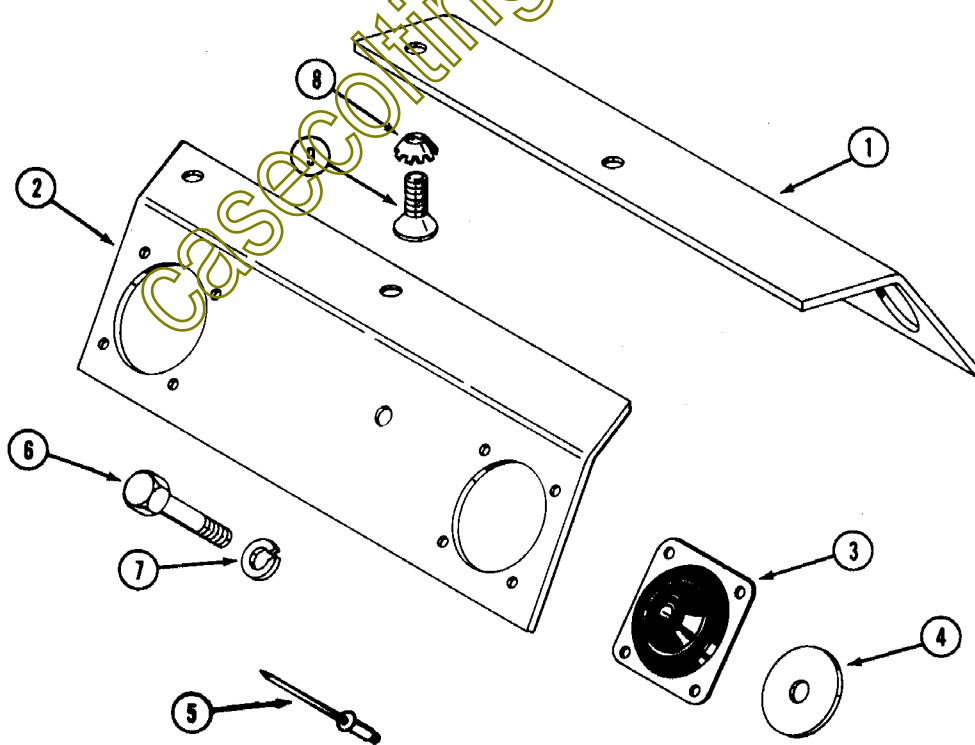
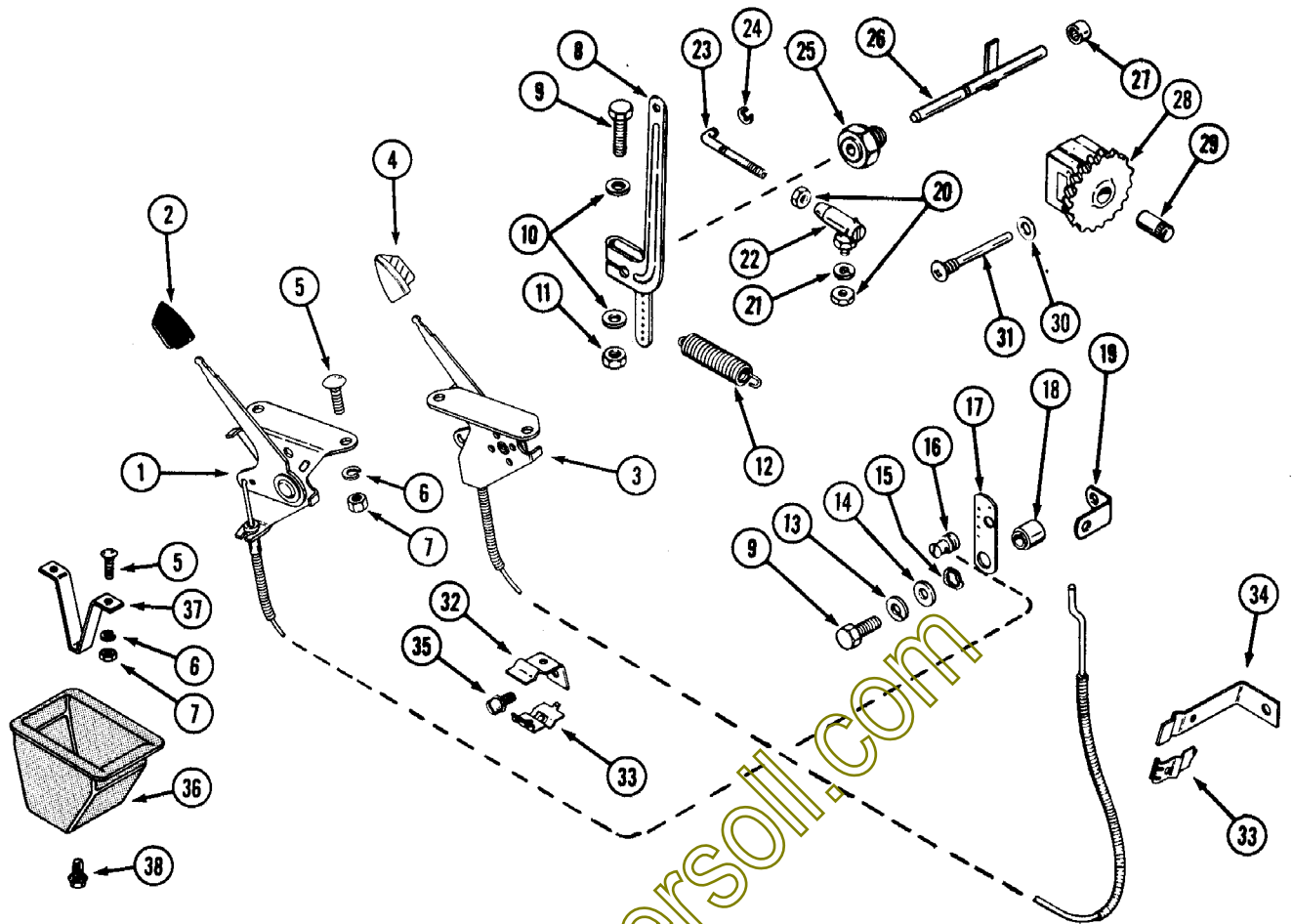


CARBURETOR

REF.	PART NO.	DESCRIPTION	REQ'D
	A 72073	CARBURETOR ASSEMBLY - 220, 222	1
	C 21816	CARBURETOR ASSEMBLY - 224 & 444	1
1	KO 200380	SPRING - tension, idle adjust	1
2	A 72092	SCREW - idle adjust	1
3	A 72077	NEEDLE - main fuel adjust, 220, 222	1
3	KO 237489	NEEDLE - main fuel adjust, 224 & 444	1
4	KO 200383	SPRING - main fuel adjust	1
5	A 72099	NEEDLE - idle adjust (220, 222)	1
5	KO 275231	NEEDLE - idle adjust (224 & 444)	1
6	KO 200380	SPRING - idle fuel adjust	1
7	A 72079	PIN - float	1
8	A 72078	FLOAT - carburetor	1
9	A 72080	BOWL - carburetor	1
10	A 72084	SCREW AND GASKET ASSEMBLY - carburetor bowl	1
11	A 72103	KIT - carburetor repair	1
12	NSS	INLET NEEDLE AND SEAT ASSEMBLY	1
13	NSS	GASKET - bowl ring	1
14	NSS	GASKET - bowl baffle	1
15	A 72083	GASKET - bowl screw	1

FUEL PUMP

1	KO 230675	KIT - fuel pump for KOA235845 pump (220)	1
	NSS	SPRING - fuel pump valve	2
	NSS	VALVE	2
	NSS	GASKET - valve	1
	NSS	DIAPHRAGM ASSEMBLY	1
	NSS	SPRING - diaphragm	1
2	A 72108	GASKET - fuel pump mounting	1
3	KO 236387	KIT - fuel pump for KOA236205 pump (222, 224 and 444)	1
	NSS	VALVE ASSEMBLY	2
	NSS	GASKET - valve	2
	NSS	DIAPHRAGM ASSEMBLY	1
	NSS	SPRING - diaphragm	1
	NSS	GASKET - valve	1
2	A 72108	GASKET - fuel pump mounting	1

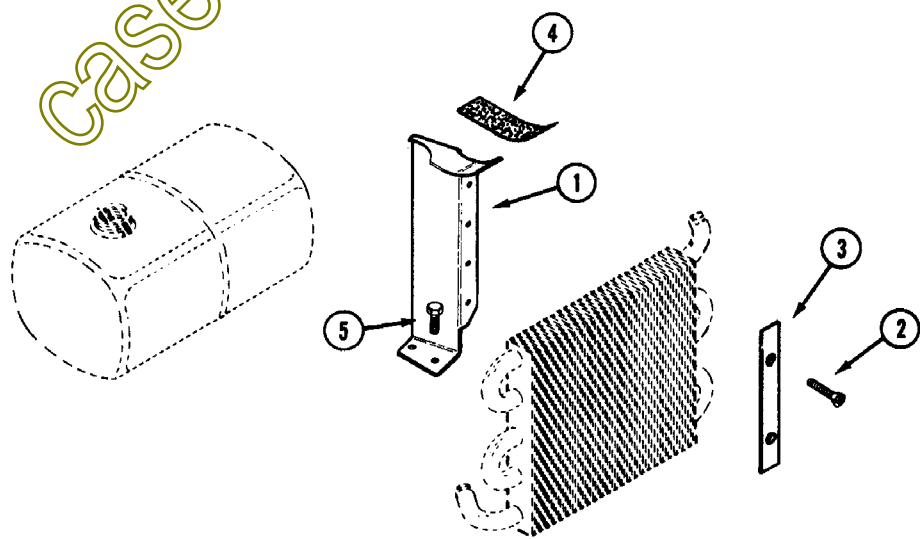
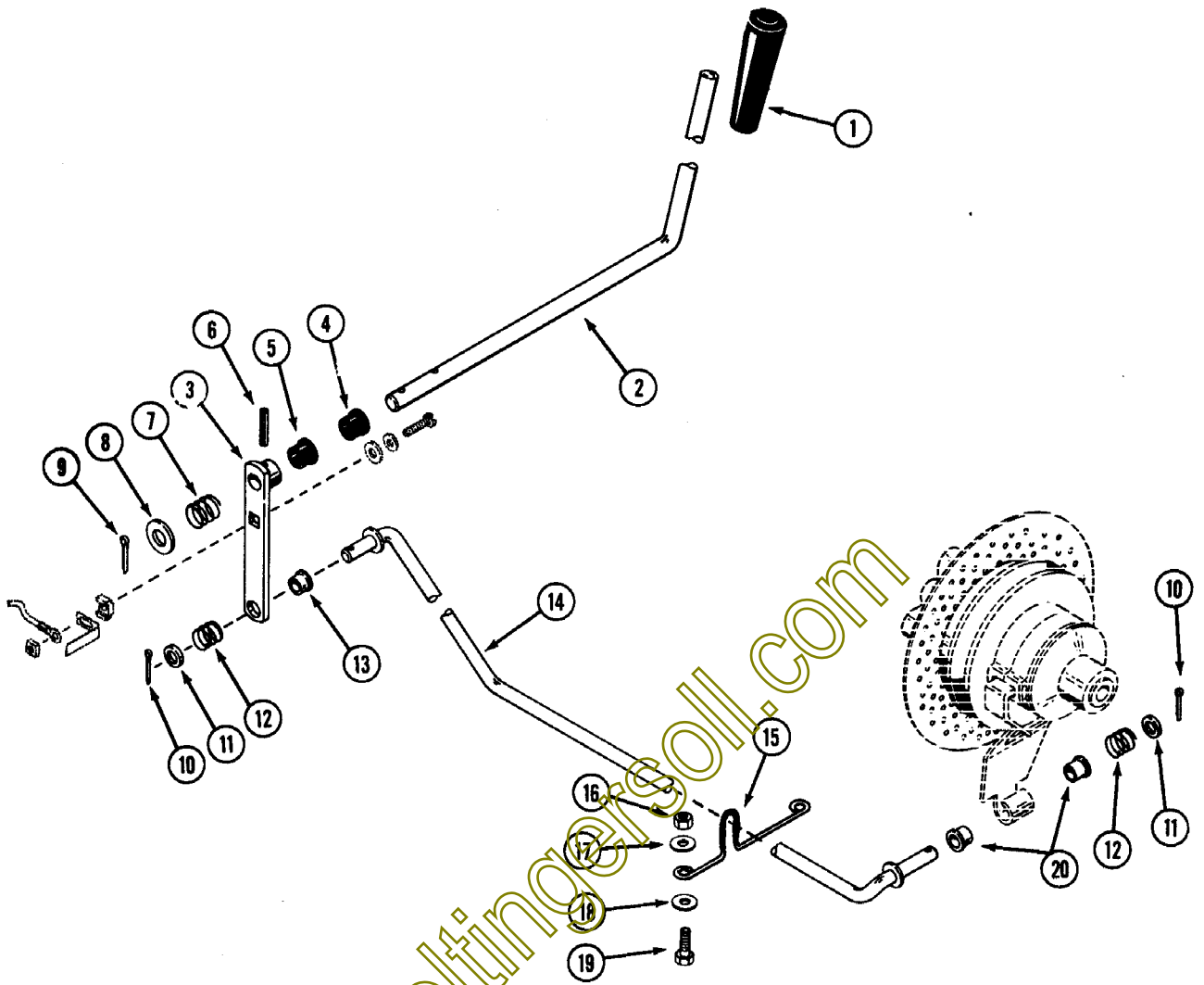


CHOKE, THROTTLE AND GOVERNOR

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 16449	CONTROL - throttle	1
2	C 12224	HANDLE - throttle control, black	1
3	C 16448	CONTROL - choke	1
4	C 14506	HANDLE - choke control, white	1
5	111- 3	BOLT - 10-24 x 5/8" round head, square neck	2
6	192- 18	LOCKWASHER - #10 Std. plated	2
7	129- 17	NUT - #10-24 plated	2
8	KOA 237653	LEVER - governor	1
9	15- 420	BOLT - 1/4" x 1-1/4" NC hex	2
10	195- 515	WASHER - 1/4" plated	2
11	25- 104	NUT - 1/4" hex	1
12	KO 235496	SPRING - governor	1
13	192- 19	LOCKWASHER - 1/4" plated	1
14	C 18098	WASHER - thrust	1
15	KO 275690	WASHER - wavy	1
16	KO 231052	CLAMP - swivel, wire	1
17	KO 235086	LEVER - speed control	1
18	KO 235085	SPACER - speed control bracket	1
19	KO 235084	BRACKET - high speed stop	1
20	129- 37	NUT - #10-32 hex	2
21	192- 18	LOCKWASHER - 3/16" plated	1
22	A 10326	JOINT - ball	1
23	KO 235277	ROD - throttle	1
24	KO 235278	RING - retaining, throttle rod	1
25	KO 235476	BUSHING - governor cross shaft	1
26	KOA 235256-S	KIT - governor cross shaft	1
27	C 18103	BEARING - needle governor shaft	1
28	KOA 237031	GEAR ASSEMBLY - governor	1
29	KO 235125-S	SHAFT - governor stub	1
30	C 18099	WASHER - governor stop pin	1
31	KO 231355	PIN - governor stop	1
32	KOA 237559	BRACKET - throttle cable	1
33	KO 235603	CLIP - bracket	2
34	KOA 236919	BRACKET - choke cable	1
35	169- 95	SCREW - #10 x 3/8" NC fillister head	1
36	C 20193	ENCLOSURE - choke and throttle cable	1
37	C 20194	BRACKET - enclosure mtg.	1
38	187- 1036	SCREW - 1/4 x 1/2" hex self tapping	1

ENGINE MOUNT PLATES

1	C 17717	PLATE - engine mount L.H.	1
2	C 17718	PLATE - engine mount R.H.	1
3	C 18793	MOUNT - engine	4
4	D 22988	WASHER - snubbing	4
5	151- 210	RIVET - pop 3/16"	16
6	113- 219	BOLT - 3/8" x 2" NC hex	4
7	192- 21	LOCKWASHER - 3/8"	4
8	193- 56	LOCKWASHER - 3/8" countersunk external tooth	4
9	164- 50	BOLT - flat head hex socket	4

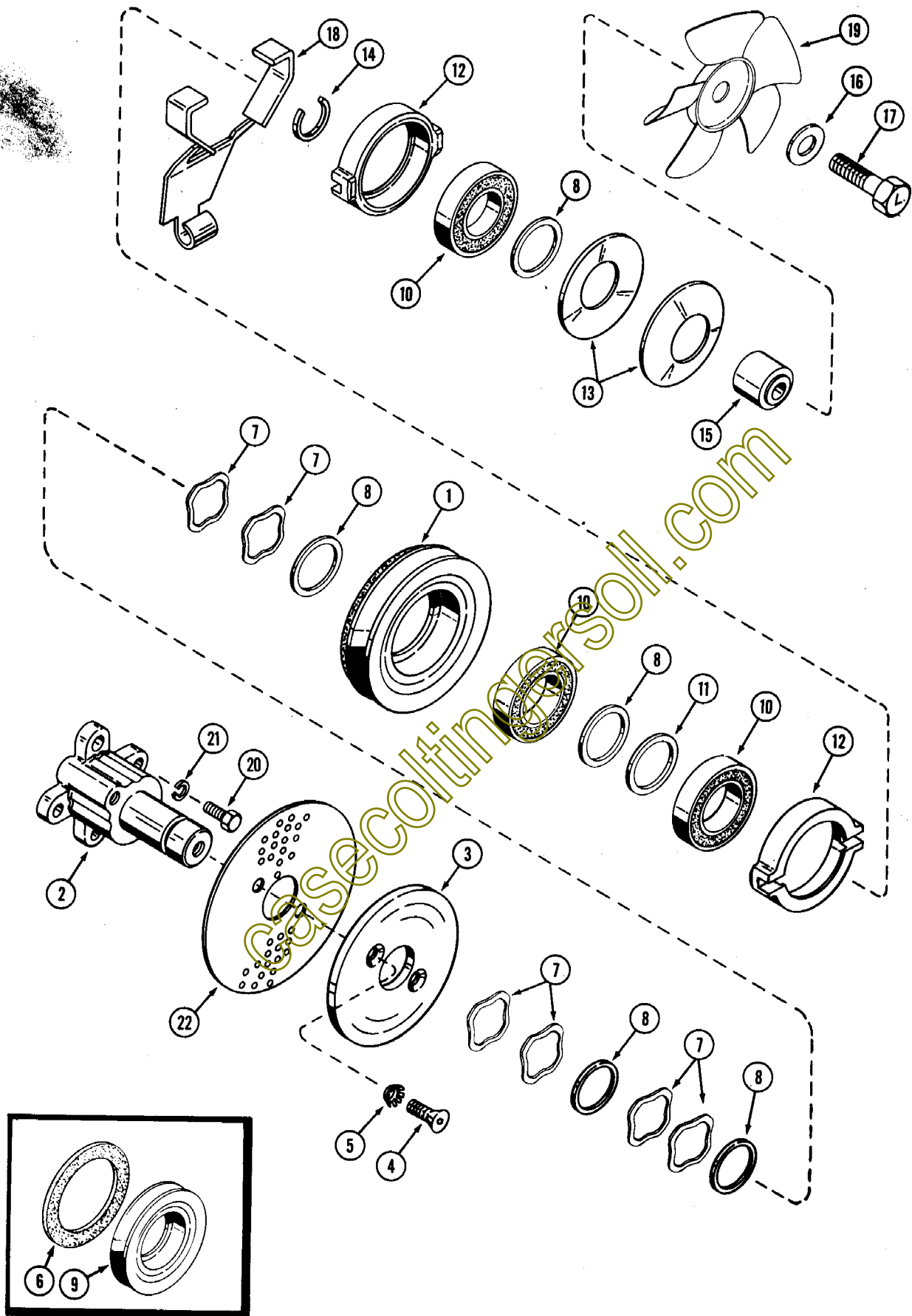


PTO CLUTCH AND LINKAGE

REF.	PART NO.	DESCRIPTION	REQ'D
1	A 37247	KNOB - lever, PTO	1
2	C 20037	LEVER - PTO engaging	1
3	C 20035	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	A 39519	WASHER - nylon	1
9	132- 91	PIN - cotter 3/16 x 1"	1
10	132- 48	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, clutch rod	1
14	C 20041	ROD - clutch	1
15	C 19767	GUIDE - clutch rod	1
16	131- 178	NUT - lock 3/8" n.c. hex	2
17	195- 104	WASHER - 3/8"	2
18	195- 126	WASHER - spacer (used on models without hyd. lift)	2
19	113- 207	BOLT - 3/8 x 1" n.c. hex	2
20	C 20053	BUSHING - nylon	2

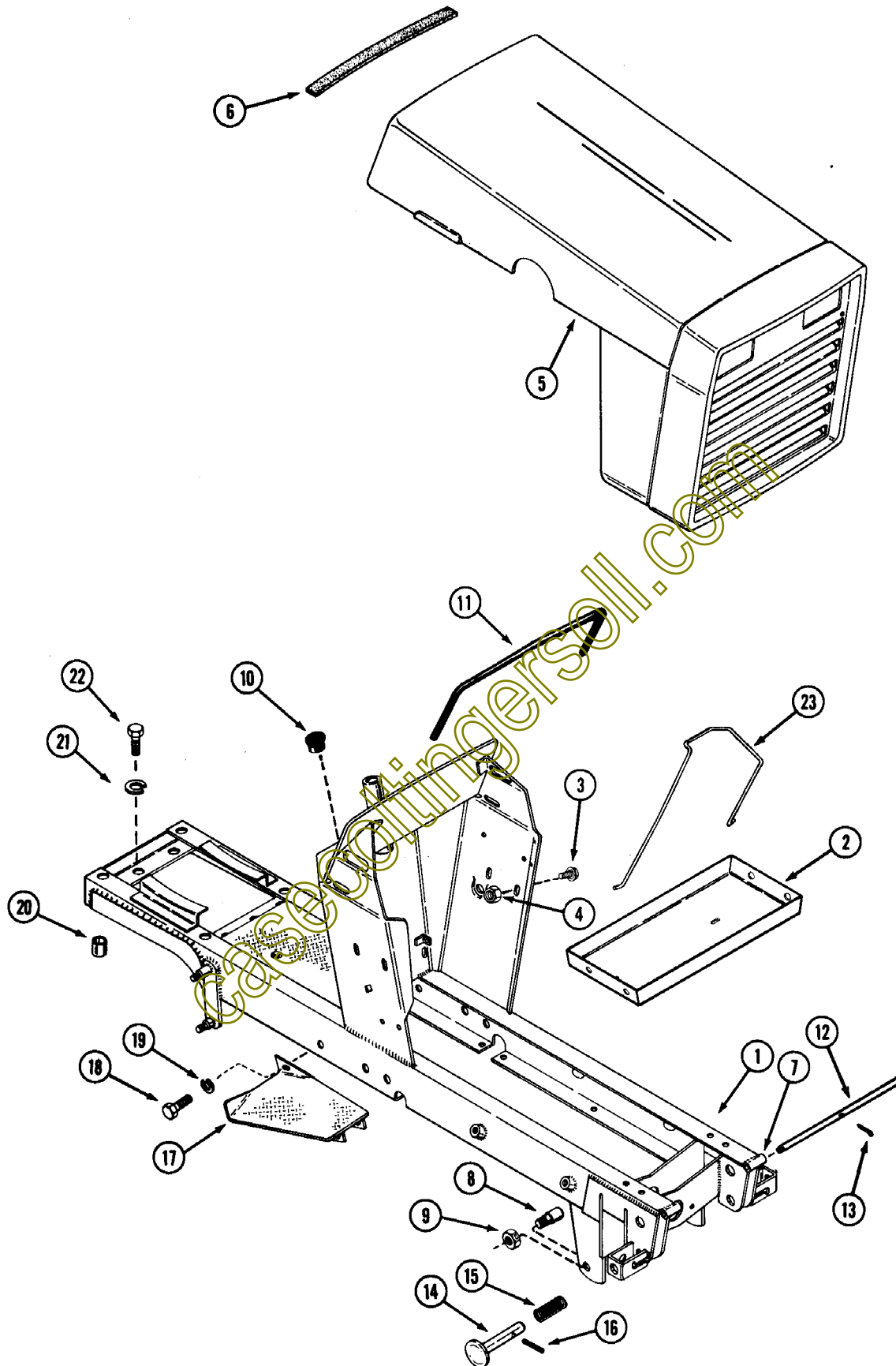
HYDRAULIC RESERVOIR MOUNTING

1	C 14240	SUPPORT - reservoir mtg. R.H.	1
1	C 14241	SUPPORT - reservoir mtg. L.H.	1
2	187- 1251	SCREW - 1/4 x 1-1/4" n.c. flat hd. phillips	4
3	C 14246	BRACKET - heat exchanger mtg.	2
4	C 14690	CUSHION - reservoir mtg.	2
5	113- 118	BOLT - 5/16 x 5/8" n.c. hex	4



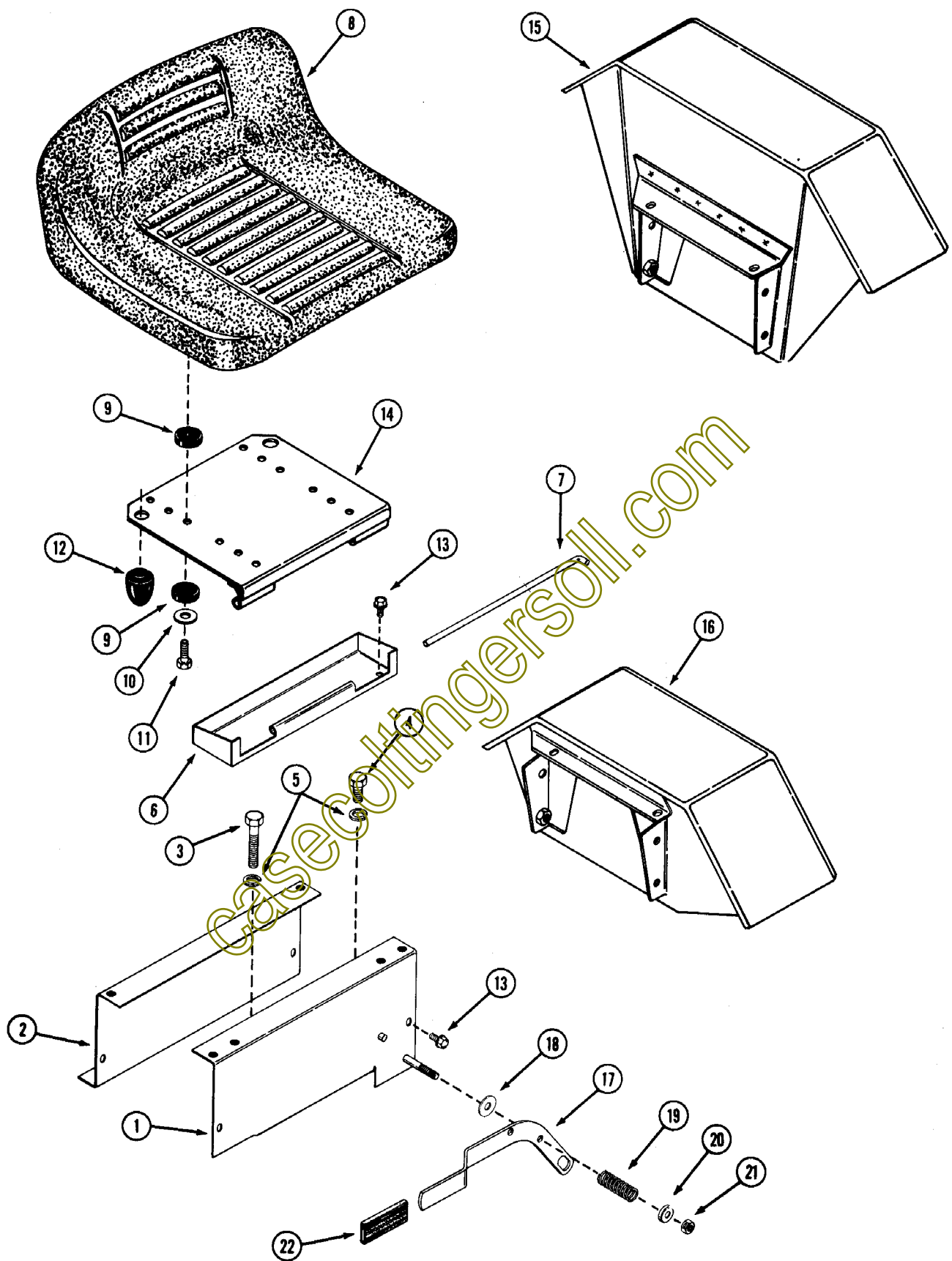
CLUTCH ASSEMBLY (PTO)

REF.	PART NO.	DESCRIPTION	REQ'D
	C 19803	CLUTCH AND FAN ASSEMBLY - less screen	1
1	C 22671	PULLEY ASSEMBLY - clutch and disc.	1
2	C 18907	HUB - clutch	1
3	C 15718	PLATE - clutch	1
4	164- 40	BOLT - 5/16" x 3/4" NC flat head socket.	2
5	193- 76	LOCKWASHER - 5/16" countersunk external tooth.	2
6	NSS	DISC - friction (order item 1).	1
7	C 15515	WASHER - spring.	6
8	C 15557	WASHER - spacer .050"	UAR
9	NSS	PULLEY - clutch (order item 1)	1
10	C 14295	BEARING - cam and pulley	3
11	C 21596	WASHER - spacer .005"	UAR
11	C 15556	WASHER - spacer .010"	UAR
12	C 19204	CAM - clutch	2
13	C 16786	SPRING - clutch load	2
14	F 59014	RING - retaining	1
15	C 18908	SPACER - hub.	1
16	O 2815N	WASHER - fan 17/32"	1
17	C 18940	BOLT - 1/2" x 1-3/4" NC hex L.H. threads	1
18	C 21564	ARM - engaging	1
19	C 16616	FAN - cooling	1
20	113- 207	BOLT - 3/8" x 1" NC hex ZP.	4
21	192- 21	LOCKWASHER - 3/8"	4
22	C 15721	SCREEN - grass	1
	C 19472	KIT - clutch stub shaft (includes items 2, 8, 11, 14, 15, 16, 17 and 19)	1



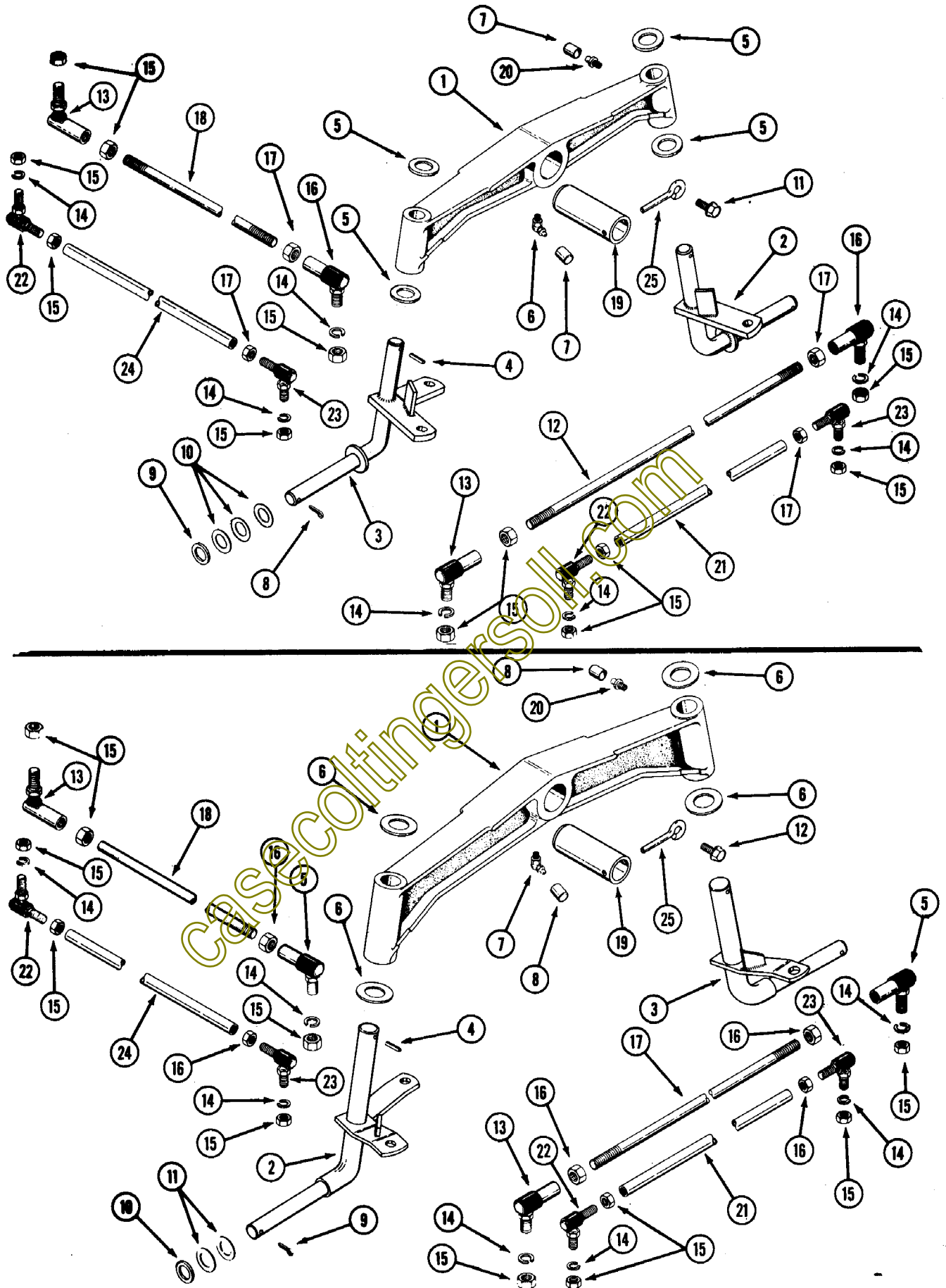
HOOD, FRAME AND GRILLE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 22721	FRAME - main, 220 (used S/N 9689174 and after)	1
1	C 22721	FRAME - main, 222 (used S/N 9705780 and after)	1
1	C 22721	FRAME - main, 224 (used S/N 9707924 and after)	1
1	C 22714	FRAME - main, 444 (used S/N 9693858 and after)	1
1	NSS	FRAME - main, 220, 222 & 224 - See Kits below	1
1	NSS	FRAME - main, 444 - See Kits below	1
2	C 16170	TRAY - battery	1
3	121- 106	SCREW - 5/16 x 1/2" whizlock.	4
4	129- 102	NUT - 5/16" nc hex	4
5	C 20056	HOOD AND GRILLE ASSEMBLY	1
6	C 20082	LINER - hood	1
7	C 22023	HINGE - frame	2
8	C 18733	PIN - attachment	2
9	131- 1318	NUT - lock 1/2" NF jam	2
10	353- 406	PLUG - hole (models without hydraulic lift)	1
11	C 18153	CHANNEL - instrument panel	1
12	C 16362	ROD - hood hinge	1
13	132- 46	PIN - cotter 1/8 x 3/4"	2
14	C 16373	PIN - latch	2
15	C 16374	SPRING - latch	2
16	138- 319	PIN - roll 3/16 x 1-1/4"	1
17	C 18890	PAD - foot rest, L.H.	1
17	C 18150	PAD - foot rest, R.H.	2
18	13- 514	BOLT - 5/16 x 7/8" NC hex.	2
19	192- 20	LOCKWASHER - 5/16"	2
20	C 14729	SPACER - frame, rear (444)	2
20	C 14730	SPACER - frame, rear (220, 222 and 224)	4
21	192- 23	LOCKWASHER - 1/2"	4
22	113- 424	BOLT - 1/2 x 1" NC hex.	1
23	C 16239	STRAP - battery hold down	
	C 22979	KIT - frame (220, 222 & 224) includes frame, ammeter, wire harness and ammeter to solenoid wire. Used 220 S/N 9674235 to 9689174 Used 222 S/N 9681170 to 970580 Used 224 S/N 9676354 to 9707924	
	C 22980	KIT - frame (444) includes frame, ammeter, wire harness and ammeter to solenoid wire. Used 444 S/N 9677449 to 9693858	



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" NC hex (444)	2
3	113-	427	BOLT - 1/2 x 3-1/4" NC hex (220, 222 and 224)	2
4	113-	424	BOLT - 1/2 x 1" NC hex (444)	2
5	192-	23	LOCKWASHER - 1/2"	4
6	C	19417	TRAY - tool	1
7	C	16429	PIN - seat hinge	1
8	C	16129	SEAT - (220, 222 and 224)	1
8	C	16651	SEAT - (444)	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	C	14534	BUMPER - seat	2
13	121-	106	BOLT - 5/16 x 1/2" flange whizlock	10
14	C	17152	HINGE ASSEMBLY - seat	1
15	C	16444	FENDER - L.H. (444)	1
15	C	16445	FENDER - R.H. (444)	1
16	C	16446	FENDER - L.H. (220, 222 and 224)	1
16	C	16447	FENDER - R.H. (220, 222 and 224)	1
17	C	16393	LEVER - shift	1
18	195-	524	WASHER - 7/16 x 1-1/4" OD	1
19	C	17216	SPRING - shift lever	1
20	C	17066	WASHER - cupped	1
21	131-	178	NUT - lock 3/8" NC hex	1
22	C	14728	GRIP - shift lever	1

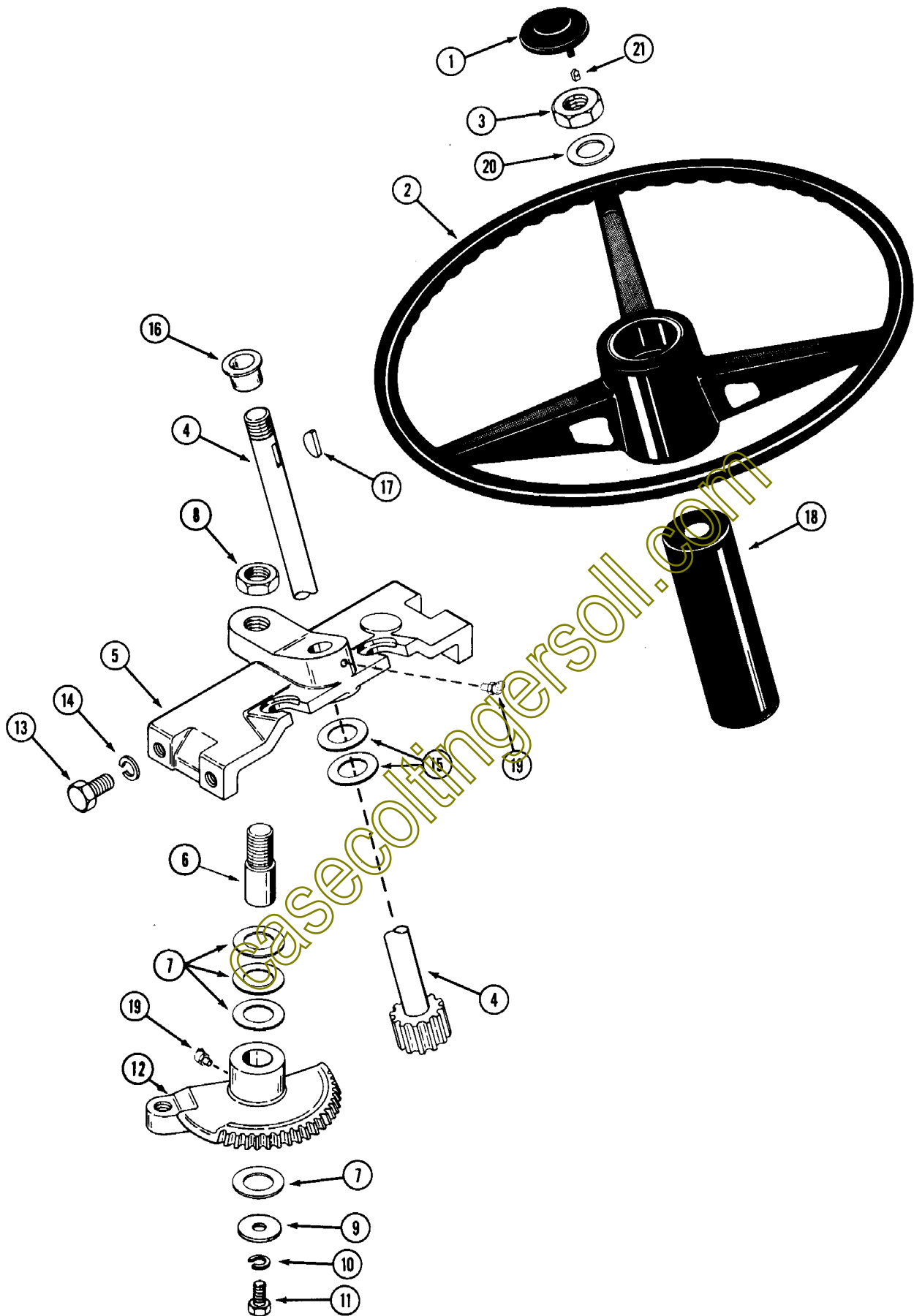


220, 222 AND 224 FRONT AXLE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18812	AXLE - front	1
2	C 18777	SPINDLE - left hand	1
3	C 18779	SPINDLE - right hand	1
4	138- 99	PIN - roll	2
5	C 11906	WASHER - thrust	4
6	219- 404	FITTING - lube	1
7	C 13106	COVER - lube fitting	3
8	132- 311	PIN - cotter 5/32 x 1-1/4"	2
9	C 12975	WASHER - wheel spindle	2
10	A 30881	WASHER - wheel spacer	6
11	187- 1046	BOLT - 3/8" NC indented hex head	1
12	C 14334	TIE ROD (early production)	1
13	C 12102	BALL JOINT - 1/2" R.H. thread (early production)	2
14	192- 23	LOCKWASHER - 1/2" zinc plated	3
15	129- 125	NUT - 1/2" NF hex R.H. thread	6
16	C 13605	BALL JOINT - 1/2" L.H. thread	2
17	129- 325	NUT - 1/2" NF hex L.H. thread	2
18	C 18786	ROD - drag link (early production)	1
19	C 22568	TUBE - axle pivot (late prod.) items 19 & 25 will replace C19009 pivot . . .	1
20	219- 17	FITTING - lube	2
21	C 21530	TIE ROD - (late production)	1
22	C 21526	BALL JOINT - 1/2" R.H. thread (late production)	2
23	C 21527	BALL JOINT - 1/2" L.H. thread (late production)	2
24	C 21528	ROD - drag link (late production)	1
25	C 22278	PIN - retaining, axle pivot (late prod.)	1

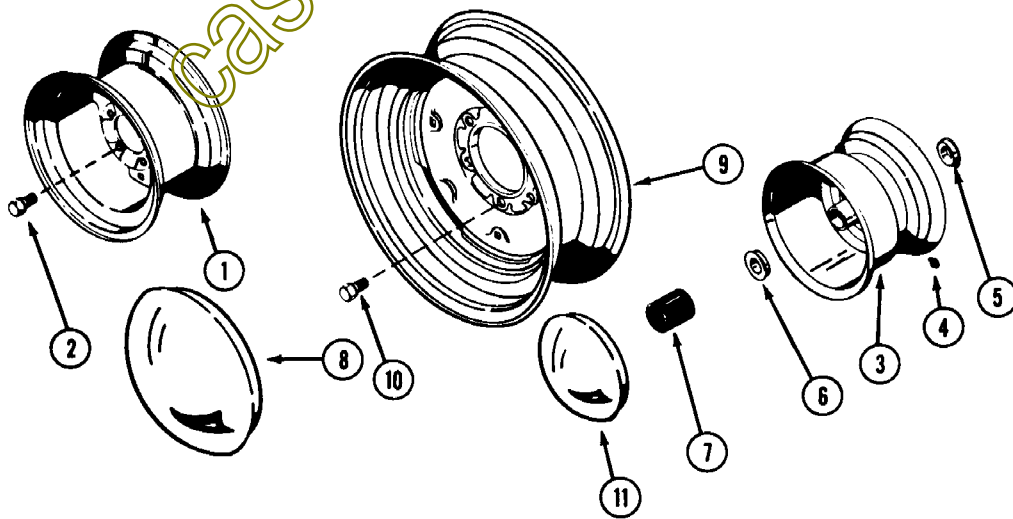
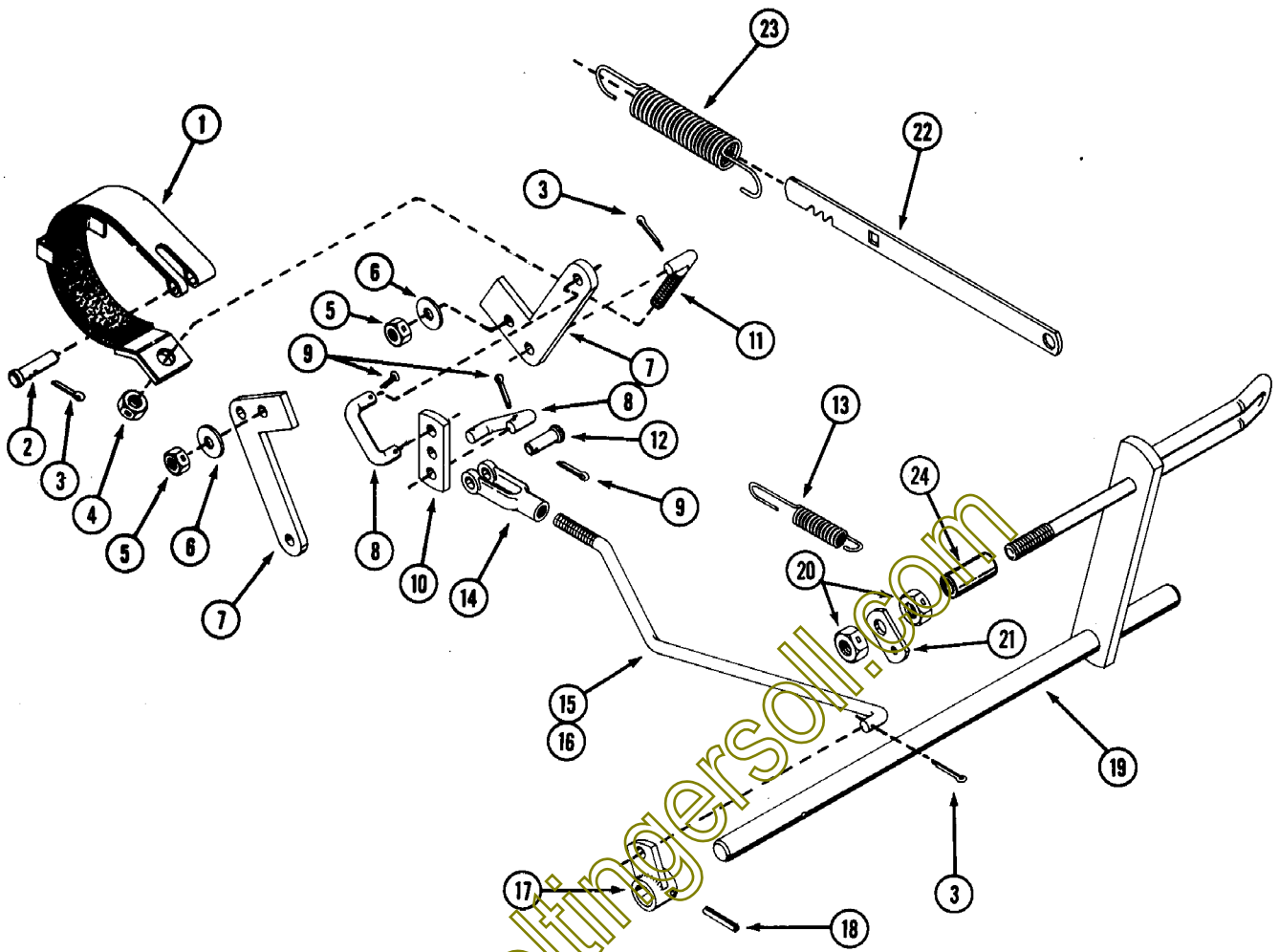
444 FRONT AXLE

1	C 18813	AXLE - front	1
2	C 18784	SPINDLE - right hand	1
3	C 18782	SPINDLE - left hand	1
4	138- 99	PIN - roll	2
5	C 13605	BALL JOINT - 1/2" L.H. thread (early production)	2
6	C 13716	WASHER - thrust	4
7	219- 404	FITTING - lube	1
8	C 13106	COVER - lube fitting	3
9	132- 311	PIN - cotter 5/32 x 1-1/4"	2
10	C 12975	WASHER - wheel spindle	2
11	A 30881	WASHER - wheel spacer	4
12	187- 1046	BOLT - 3/8" NC indented hex head	1
13	C 12102	BALL JOINT - 1/2" R.H. thread (early production)	2
14	192- 23	LOCKWASHER - 1/2" zinc plated	3
15	129- 125	NUT - 1/2" NF hex R.H. thread	6
16	129- 325	NUT - 1/2" NF hex L.H. thread	2
17	C 16384	TIE ROD - (early production)	1
18	C 18786	ROD - drag link (early production)	1
19	C 22568	TUBE - axle pivot (late prod.) items 19 & 25 will replace C19009 pivot . . .	1
20	219- 17	FITTING - lube	2
21	C 21529	TIE ROD - (late production)	1
22	C 21526	BALL JOINT - R.H. thread (late production)	2
23	C 21527	BALL JOINT - L.H. thread (late production)	2
24	C 21528	ROD - drag link (late production)	1
25	C 22278	PIN - retaining, axle pivot (late prod.)	1



STEERING GEAR

REF.	PART NO.		DESCRIPTION	REQ'D
1	C	18016	CAP - steering wheel	1
2	C	18014	WHEEL - steering	1
3	131-	1113	NUT - lock 5/8" Gripco	1
4	C	16200	SHAFT - steering	1
5	C	18992	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-	113	BOLT - 5/16" x 7/8" NC hex	1
12	C	18711	GEAR - steering	1
13	113-	206	BOLT - 3/8" x 3/4" NC hex	4
14	192-	21	LOCKWASHER - 3/8"	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	16692	TUBE - steering	1
19	219-	404	FITTING - lube 45°	2
20	C	12975	WASHER - 5/8"	2
21	C	18017	CLIP - tinnerman (use with C18014 steering wheel)	2
	C	13106	COVER - lube fitting	2

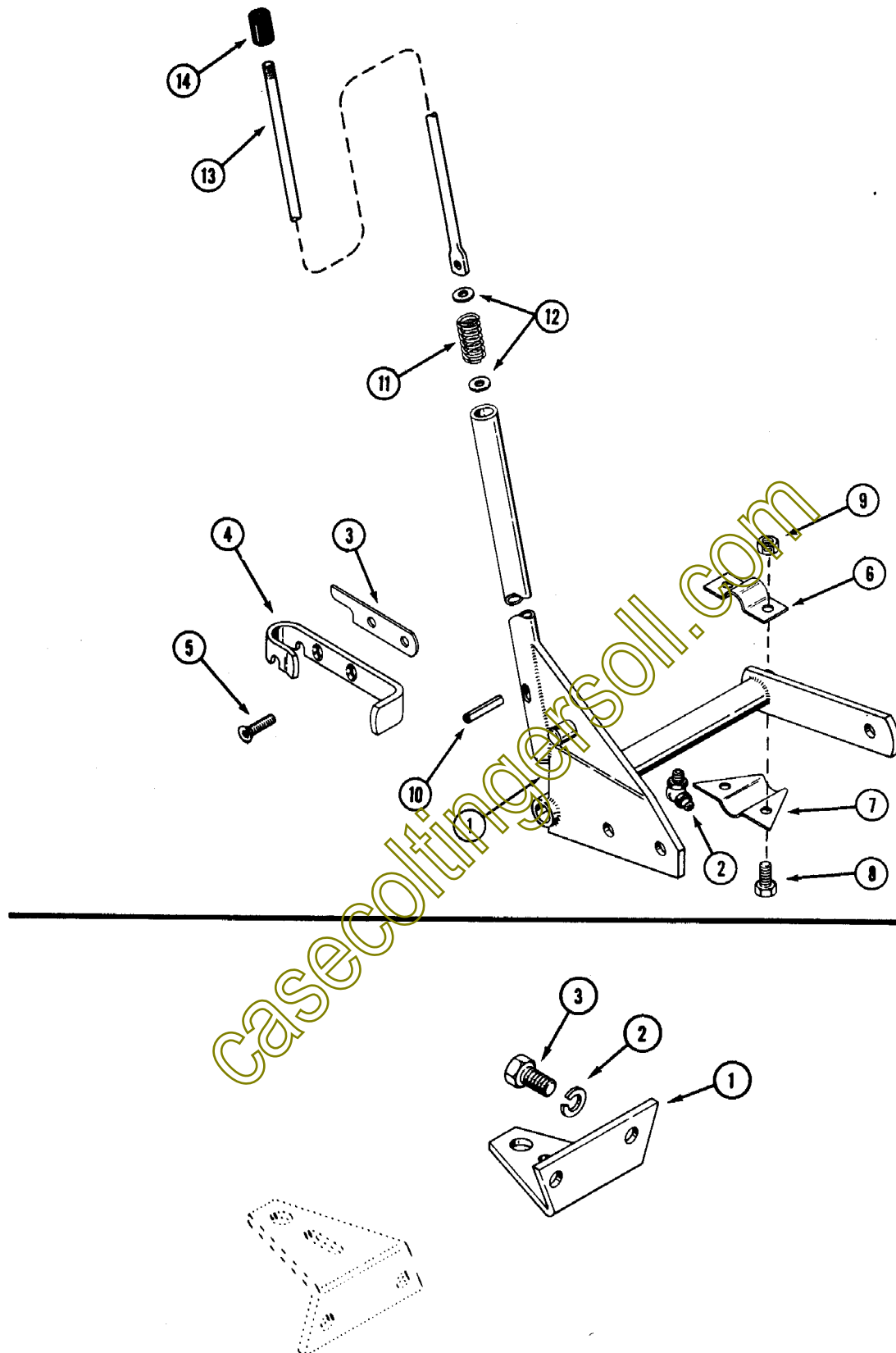


BRAKE ASSEMBLY

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	LOCKNUT - 7/16" hex NC	1
5	131- 179	LOCKNUT - 3/8" hex NC	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 18871	SPRING - return	1
14	213- 4	CLEVIS	1
15	C 19187	ROD - brake (220, 222, and 224)	1
16	C 19186	ROD - brake (444)	1
17	C 19183	ARM - brake rod	1
18	138- 319	PIN - roll 3/16" x 1-1/4"	1
19	C 21872	PEDAL - brake assembly (For early prod. also order item 24)	1
20	131- 164	NUT - centerlock jam	2
21	C 16164	TAB - lift control	1
22	C 18147	LEVER - brake lock	1
23	C 16379	SPRING - brake lock	1
24	C 21857	SPACER - brake pedal	1

FRONT AND REAR WHEELS

			220	
			222	
			224	444
1	C 10263	WHEEL - rear, 5 bolt	2	
2	C 10314	BOLT - rear wheel	10	
3	C 12081	WHEEL - front	2	2
4	219- 403	FITTING - lube	2	2
5	C 12110	BEARING - wheel, inner	2	2
6	C 12111	BEARING - wheel, outer	2	2
7	C 12370	CAP - plastic, front	2	2
8	A 70185	CAP - hub, rear (optional)	2	
9	C 10317	WHEEL - rear, 6 bolt		2
10	A 30064	BOLT - rear wheel		12
11	A 70062	CAP - hub front wheel (optional).	2	2
	C 13106	COVER - lube fitting	2	2



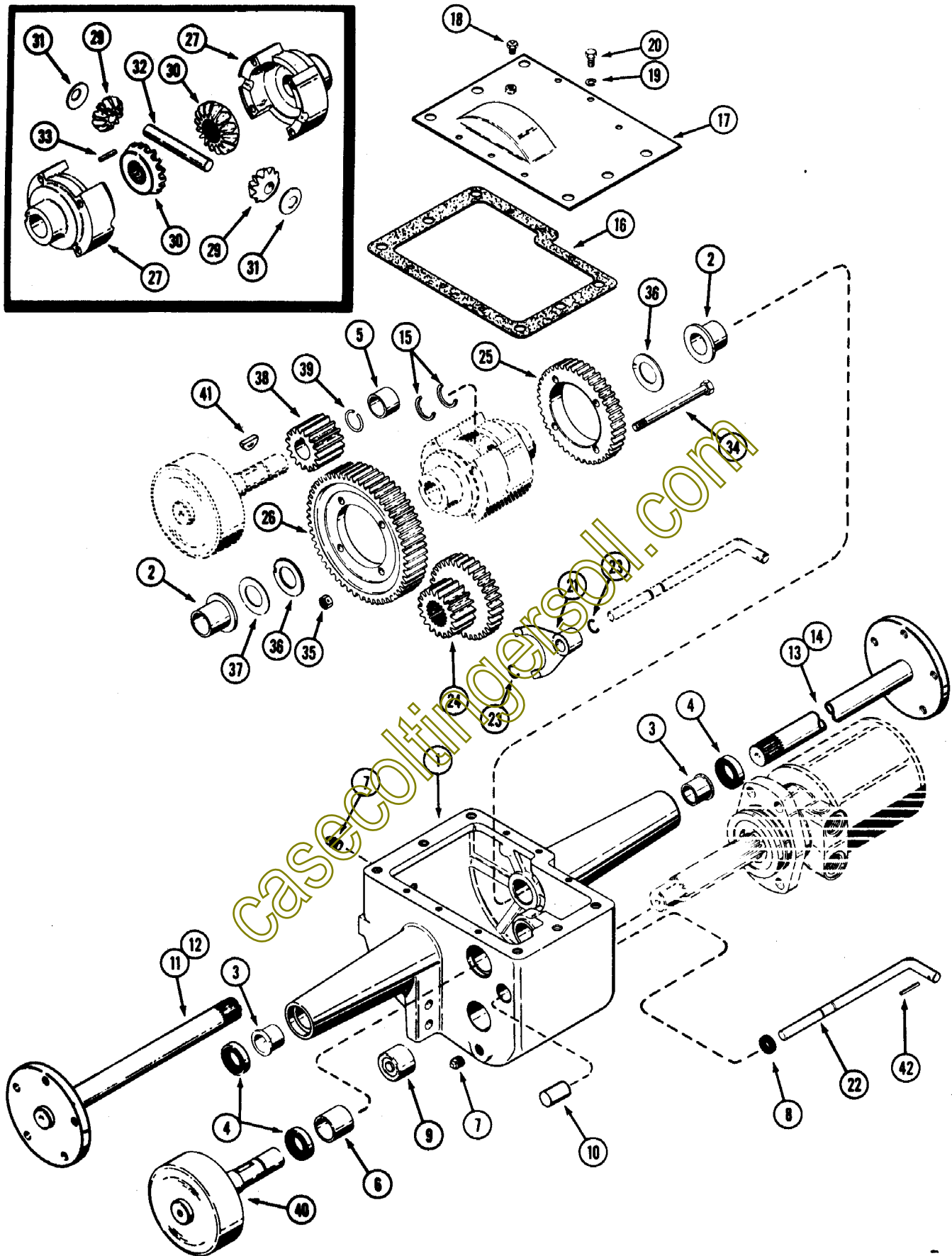
MOUNTING POSITION FOR 220, 222 AND 224 TRACTORS.

IMPLEMENT LIFT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18809	LEVER ASSEMBLY - implement lift	1
2	219- 404	FITTING - lube 45°	1
3	C 17281	SPACER - latch	4
4	C 18811	LIFT - latch	1
5	164- 42	SCREW - 5/16 x 1-1/4" flat head socket	2
6	C 17249	BRACKET - mounting top	1
7	C 17250	BRACKET - mounting bottom	1
8	13- 614	BOLT - 3/8 x 7/8" NC hex	4
9	131- 178	NUT - lock 3/8"	4
10	138- 2054	PIN - spirol 5/16 x 1-3/4"	1
11	C 15564	SPRING - lift lever	1
12	195- 521	WASHER - 3/8 x 11/16" OD	2
13	C 17067	ROD - lift lever push	1
14	C 14525	BUTTON - thumb	1

DRAWBAR AND TOW HITCH

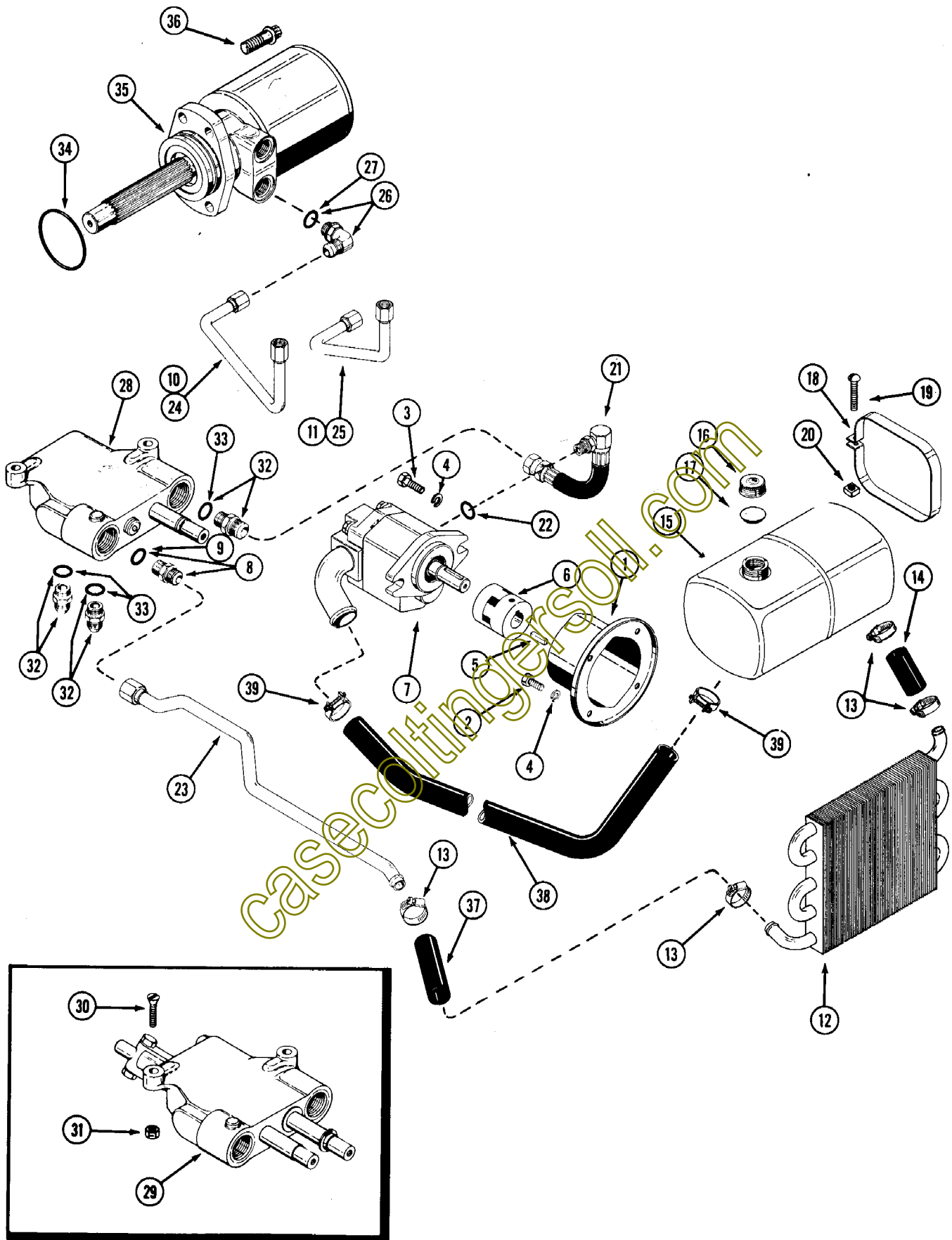
1	C 13360	DRAWBAR	1
2	192- 23	LOCKWASHER - 1/2" zinc plated	2
3	113- 424	BOLT - 1/2 x 1" NC hex zinc plated	2



TRANSMISSION AND FINAL DRIVE

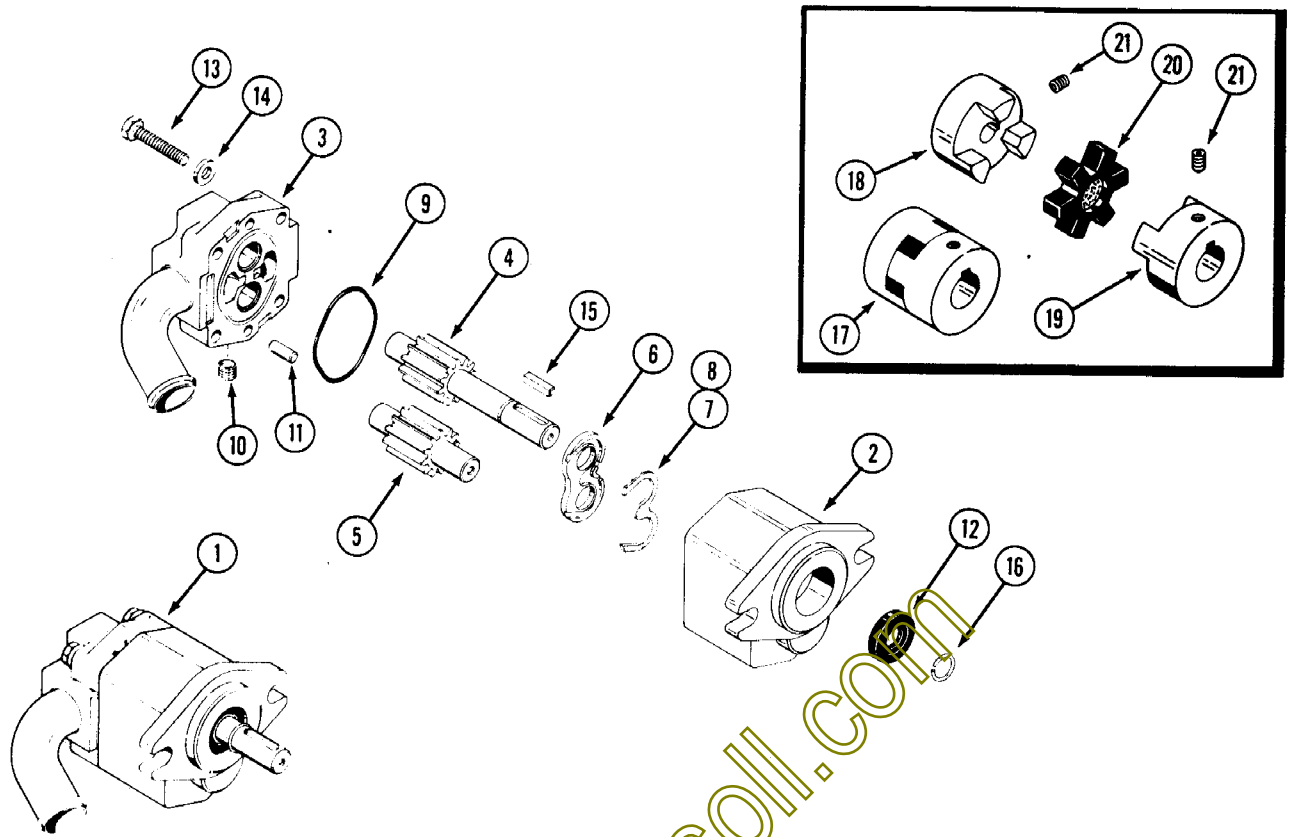
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 13770	CASE - transmission	1
2	C 12713	BEARING - flange	2
3	C 16744	BEARING - flanged	2
4	D 31945	SEAL - axle	3
5	C 13241	BEARING - sleeve	1
6	C 13385	BEARING - sleeve	1
7	221- 4	PLUG - filler and drain 1/2"	2
8	C 13266	SEAL - shift rod	1
9	C 13211	BEARING - roller, input shaft	1
10	C 12723	CAP - shift rod	1
11	C 16699	SHAFT - axle, short R.H. (220, 222 and 224)	1
12	C 22638	SHAFT - axle, short R.H. (444)	1
13	C 16700	SHAFT - axle, long L.H. (220, 222 and 224)	1
14	C 22637	SHAFT - axle, long, L.H. (444)	1
15	B 52144	RING - retainer, axle.	2
16	C 13196	GASKET - transmission cover.	1
17	C 13197	COVER - transmission	1
18	A 50096	BREATHER - transmission.	1
19	192- 19	LOCKWASHER - 1/4"	6
20	113- 1	BOLT - 1/4 x 1/2" NC hex.	6
21	C 12725	FORK - shift.	1
22	C 16339	ROD - gear shift.	1
23	C 14168	RING - retaining	2
24	C 14644	GEAR - cluster input.	1
25	C 12551	GEAR - high 41 tooth.	1
26	C 12552	GEAR - low 55 tooth	1
27	C 16295	KIT - diff. case (includes Ref 34 and 35)	1
29*		GEAR - differential pinion (order two of each, items 29 and 30).	2
30*		GEAR - differential (order two of each, items 29 and 30).	2
31	C 12559	WASHER - pinion thrust	2
32	C 12560	PIN - differential cross	1
33	R 17820	PIN - differential cross lock	1
34	C 12561	SCREW - 3/8 x 4-3/4" NC hex cap	4
35	131- 366	NUT - lock 3/8" NC hex	4
36	C 12718	WASHER - differential	2
37	C 14223	WASHER - spacer	UAR
38	C 12965	GEAR - brake idler.	1
39	C 14222	RING - retainer, brake idler	1
40	C 13261	BRAKE DRUM	1
41	126- 128	KEY - Woodruff, brake idler.	1
42	138- 319	PIN - roll 3/16 x 1-1/2"	1

* Must be serviced in sets of four using two C12558 Pinion Gears and two C12557 Differential Gears.



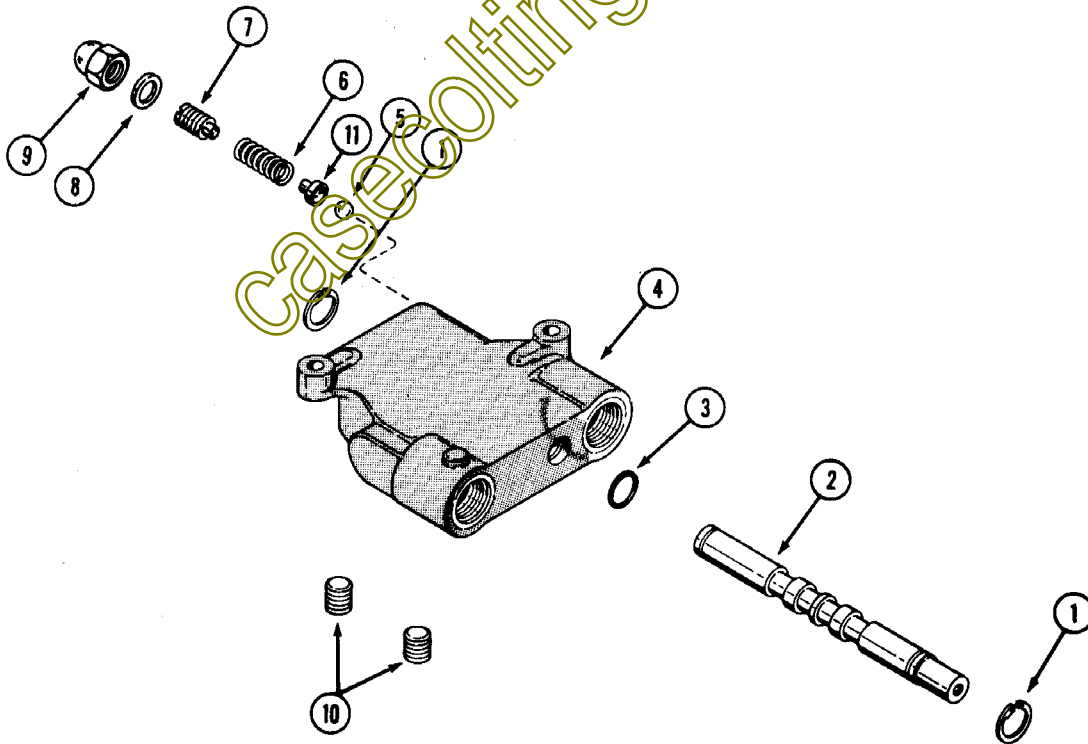
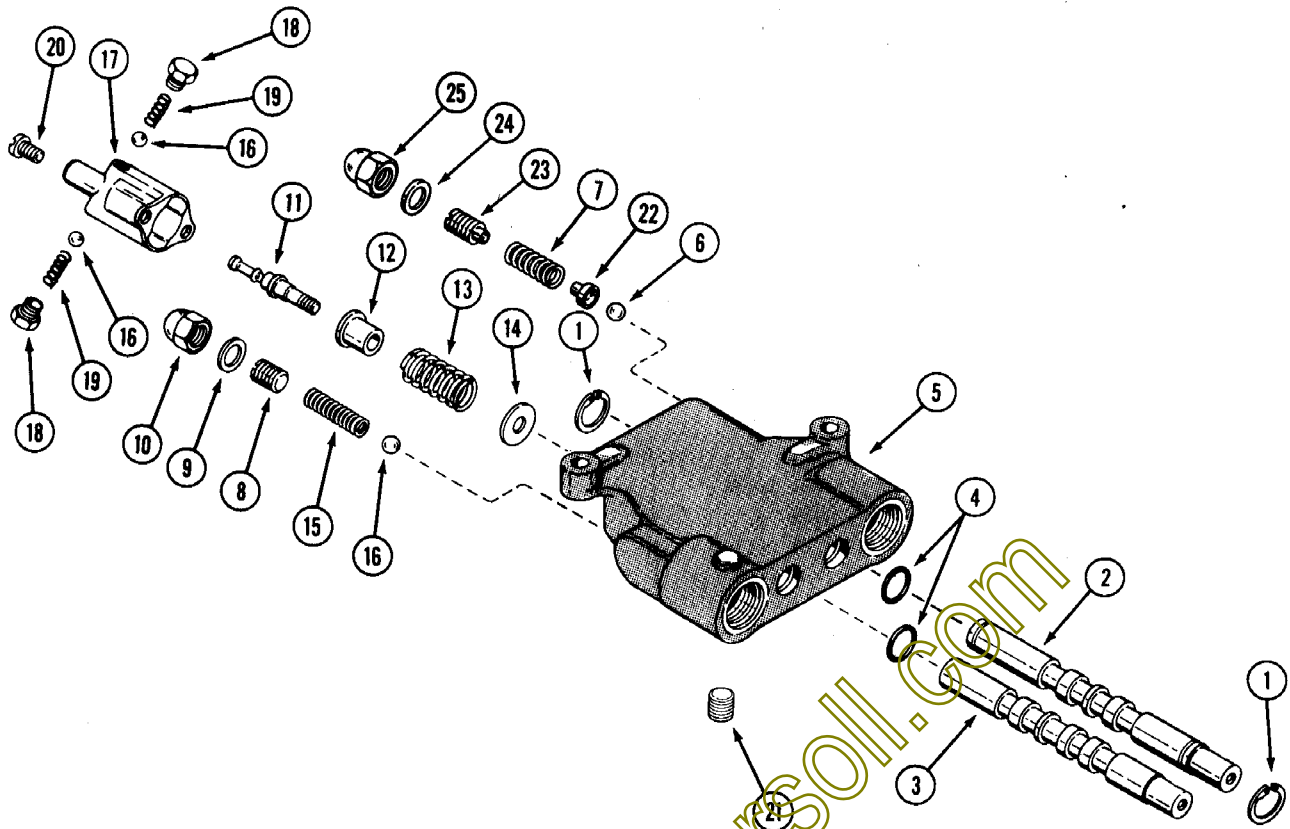
HYDRAULIC SYSTEM

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 15335	SUPPORT - pump mounting	1
2	113- 207	BOLT - 3/8 x 1" NC hex, support mounting	4
3	114- 200	BOLT - 3/8 x 1" NF hex, pump mounting	2
4	192- 21	LOCKWASHER - 3/8" zinc plated	6
5	W 5063-S	KEY - square 1/4 x 3/4" (engine shaft).	1
6	C 15726	COUPLING - pump (220 and 222) 1/2" shaft see page 51	1
6	C 17298	COUPLING - pump (224 and 444) 1/2" shaft see page 51	1
6	C 20058	COUPLING - pump 9/16" shaft (220, 222) see page 51	1
6	C 20059	COUPLING - pump 9/16" shaft (224, 444) see page 51	1
7	C 20757	PUMP - hyd. 1/2" shaft (see page 51 for S/N)	1
		Order C19743 pump & C20058 coupling, 220-222	
7	C 20757	PUMP - hyd 1/2" shaft (see page 51 for S/N)	1
		Order C19743 pump & C20059 coupling, 224-444	
7	C 19743	PUMP - hyd. 9/16" shaft (see page 51 for S/N)	1
8	C 17236	FITTING - hydraulic 3/4T x 7/8" "O" RING, pump and valve	1
9	218- 5007	"O" RING - 5/8" for C17263 fitting	1
10	C 16794	TUBE - valve to lower motor port, 220, 222 and 224	1
11	C 16793	TUBE - valve to upper motor port, 220, 222 and 224	1
12	C 14195	EXCHANGER - heat	1
13	214- 9	CLAMP - hose	4
14	C 14245	HOSE - rubber 3"	1
15	C 18580	RESERVOIR - hydraulic oil	1
16	C 11529	CAP - reservoir with insert	1
17	C 11545	INSERT - reservoir cap	1
18	A 70100	STRAP - reservoir mounting	2
19	173- 215	SCREW - 1/4 x 1-1/4" round head machine	2
20	129- 504	NUT - square 1/4" NC zinc plated	1
21	C 18797	HOSE - hydraulic, pump to valve.	1
22	218- 5006	"O" RING - 1/2" for C18797	1
23	C 19002	TUBE - valve to heat exchanger.	1
24	C 16687	TUBE - valve to lower motor port (444)	1
25	C 17898	TUBE - valve to upper motor port (444)	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	C 21495	VALVE - hydraulic control, single spool (220 and 222) (Repairs page 53) . .	1
29	C 21496	VALVE - hydraulic control, two spool (all models with hydraulic lift) (Repairs page 53)	1
30	171- 247	SCREW - 5/16 x 1-1/4" NC flat head machine	2
31	131- 351	NUT - lock 5/16" NC hex	2
32	C 18321	FITTING - hydraulic valve 5/8T x 7/8" "O" RING	3
33	218- 5007	"O" RING - 5/8" for C18321	2
34	A 30095	SEAL - motor to transmission case	1
35	C 16697	MOTOR - hydraulic, 220, 222 and 224 (Repairs page 55).	1
35	C 14655	MOTOR - hydraulic, 444 (Repairs page 55)	1
36	166- 86	SCREW - 1/2" x 1-1/4" NC flanged 12 pt.	4
37	C 14619	HOSE - rubber 4"	1
38	C 19253	HOSE - rubber	1
39	214- 17	CLAMP - hose	2



HYDRAULIC PUMP AND COUPLING

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 20757	PUMP - hyd. 1/2" shaft, 220 (used S/N 9674324 to 9674589)	1
		Order C19743 pump & C20058 coupling	
1	C 20757	PUMP - hyd. 1/2" shaft, 222 (used S/N 9681180 to 9681266)	1
		Order C19743 pump & C20058 coupling	
1	C 20757	PUMP - hyd. 1/2" shaft, 224 (used S/N 9676393 to 9676545)	1
		Order C19743 pump & C20059 coupling	
1	C 20757	PUMP - hyd. 1/2" shaft, 444 (used S/N 9677489 to 9677752)	1
		Order C19743 pump & C20059 coupling	
1	C 19743	PUMP - hyd. 9/16" shaft, 220 (used S/N 9674589 and after)	1
1	C 19743	PUMP - hyd. 9/16" shaft, 222 (used S/N 9681266 and after)	1
1	C 19743	PUMP - hyd. 9/16" shaft, 224 (used S/N 9676545 and after)	1
1	C 19743	PUMP - hyd. 9/16" shaft, 444 (used S/N 9677752 and after)	1
2	C 20761	BODY - pump 1/2" shaft	1
2	C 20456	BODY - pump 9/16" shaft	1
3	C 20762	COVER ASSEMBLY - pump 1/2" shaft	1
3	C 20457	COVER ASSEMBLY - pump 9/16" shaft	1
4	C 20764	GEAR - pump, drive 1/2" shaft	1
4	C 20460	GEAR - pump, drive 9/16" shaft	1
5	C 20765	GEAR - pump, driven 1/2" shaft	1
5	C 20461	GEAR - pump, driven 9/16" shaft	1
6	D 58185	PLATE - wear, 1/2" shaft	1
6	C 20462	PLATE - wear, 9/16" shaft	1
7	D 58186	SEAL - wear plate 1/2" shaft	1
7	C 20463	SEAL - wear plate 9/16" shaft	1
8	D 58187	SEAL - pressure loading (C20757 pump only)	1
9	D 58196	SEAL - "O" ring	1
10	221- 849	PLUG - pipe	1
11	D 58188	PIN - dowel	2
12	D 59650	SEAL - shaft, 1/2" shaft	1
12	C 20464	SEAL - shaft, 9/16" shaft	1
13	13- 424	BOLT - 1/4 x 1 1/2" nc hex, grade 5	4
14	D 58189	WASHER - 1/4"	4
15	C 19207	KEY - square 1/8 x 3/4", 1/2" shaft	1
15	C 20455	KEY - square 3/16" x 13/16", 9/16" shaft	1
16	O 10323AB	RING - retaining, 1/2" shaft	1
16	A 35690	RING - retaining, 9/16" shaft	1
	C 20767	KIT - seal, for C20757 pump (includes items: 7, 8, 9, 12, 15 and 16).	1
17	C 15726	COUPLING - 220, 222 (use with C20757 pump 1/2" shaft)	1
17	C 17298	COUPLING - 224, 444 (use with C20757 pump 1/2" shaft)	1
17	C 20058	COUPLING - 220, 222 (use with C19743 pump 9/16" shaft)	1
17	C 20059	COUPLING - 224, 444 (use with C19743 pump 9/16" shaft)	1
18	NSS	HUB - coupling (order item 17)	1
19	NSS	HUB - coupling (order item 17)	1
20	A 70112	SPIDER - (for C15726 and C20058 couplings).	1
20	C 15036	SPIDER - (for C17298 and C20059 couplings).	1
21	83- 55	SETSCREW - 5/16 x 5/16" N.C. soc. hd.	2

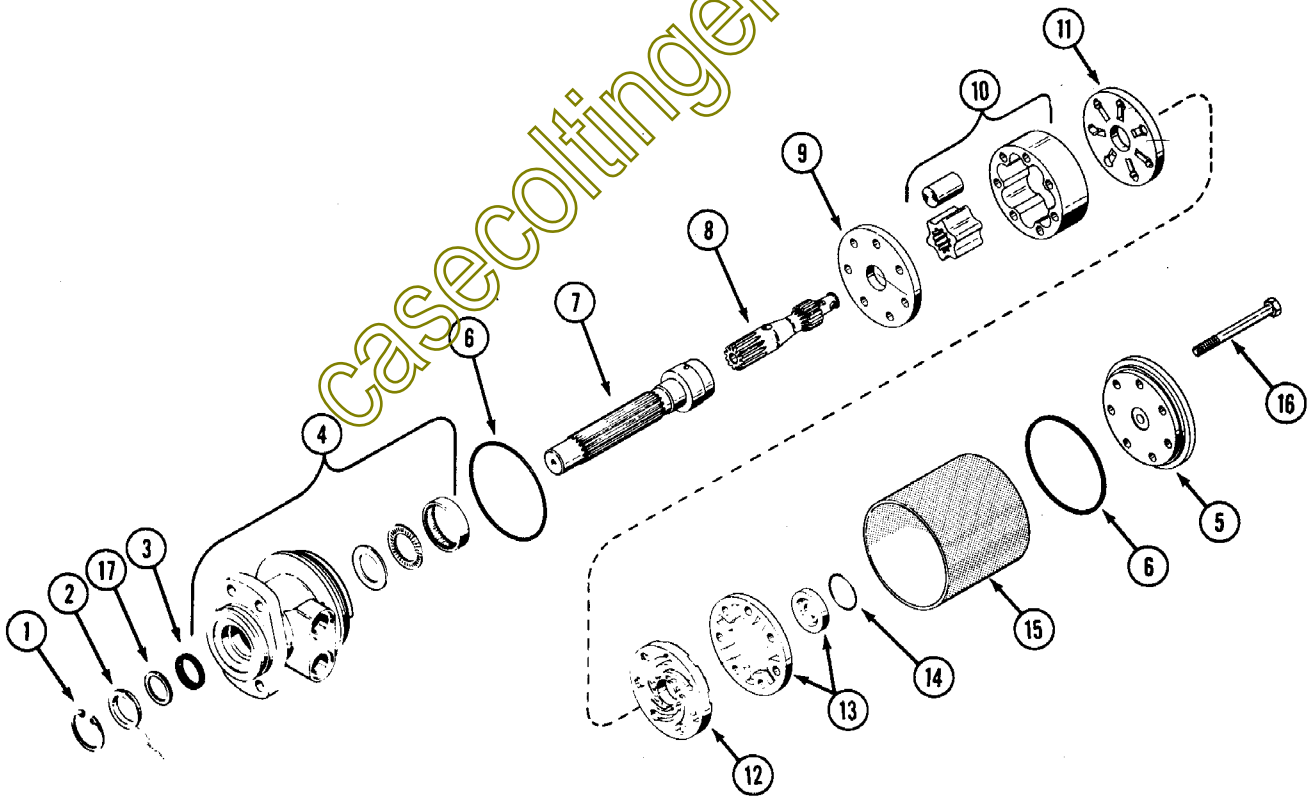
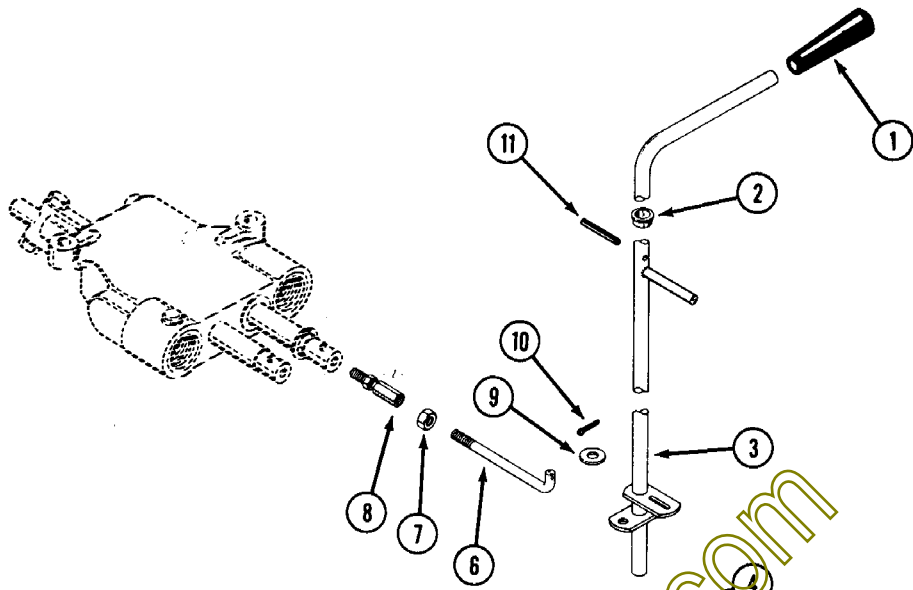


HYDRAULIC CONTROL VALVE (TWO SPOOL)

REF.	PART NO.	DESCRIPTION	REQ'D
	C 21496	VALVE - control, two spool (220 S/N 9674546 and after)	1
	C 21496	VALVE - control, two spool (222 S/N 9681252 and after)	1
	C 21496	VALVE - control, two spool (224 S/N 9676527 and after)	1
	C 21496	VALVE - control, two spool (444 S/N 9677698 and after)	1
1	A 60273	RING - retaining	2
2	NSS	SPOOL - motor (Order C21496)	1
3	NSS	SPOOL - float (Order C21496)	1
4	A 7982	SEAL - spool	4
5	NSS	BODY - valve (Order C21496).	1
6	211- 9	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 18850	SPRING - detent return	1
14	C 17440	WASHER - return	1
15	C 21505	SPRING - relief	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 21504	KIT - relief (includes items 6, 7, 22, 23, 24 and 25).	1
	C 21511	KIT - relief (includes items 8, 9, 10, 15 and 16)	1
	C 18851	KIT - detent (includes items 11, 12, 13, 14, 16, 17, 18, 19 and 20)	1

HYDRAULIC CONTROL VALVE (SINGLE SPOOL)

	C 21495	VALVE - control, single spool (220) S/N 9687548 and after	1
	C 21495	VALVE - control, single spool (222) S/N 9689912 and after	1
1	A 60273	RING - retaining	2
2	NSS	SPOOL - Order C21495 valve	1
3	A 7982	SEAL - spool	2
4	NSS	BODY - valve (Order C21495).	1
5	211- 9	BALL - steel 5/16"	1
6	C 21507	SPRING - relief	1
7	C 21509	SCREW - relief adjust	1
8	C 21508	GASKET - relief adjust cap.	1
9	C 21510	CAP - adjust screw	1
10	221- 841	PLUG - 1/4"	3
11	C 21506	RETAINER - ball seat	1
	C 21504	KIT - relief (includes items 5, 6, 7, 8, 9 and 12)	1

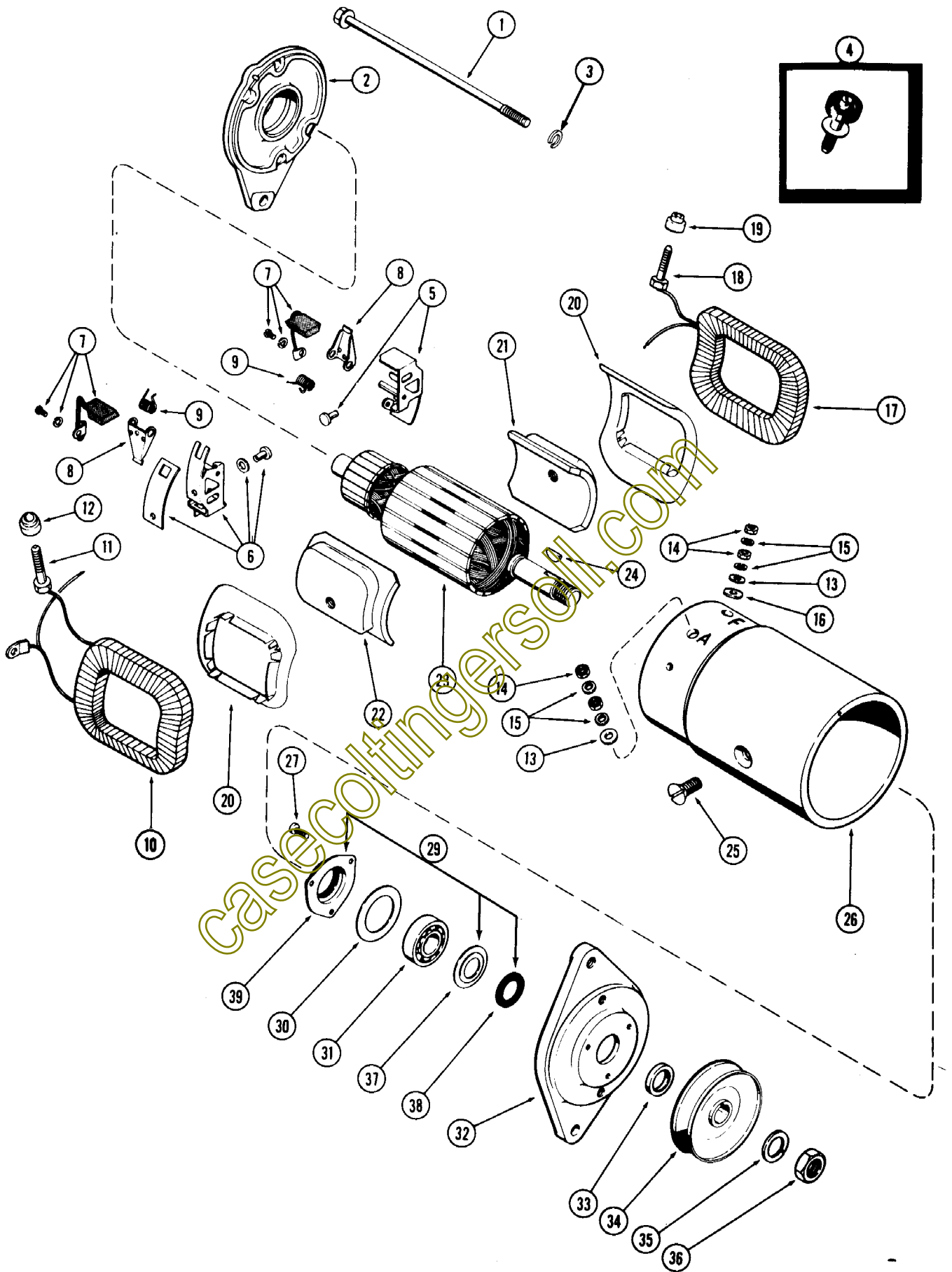


SPEED CONTROL

REF.	PART NO.	DESCRIPTION	REQ'D
1	A 37247	KNOB - speed control	1
2	C 12093	BUSHING - lever	1
3	C 20071	LEVER - speed control	1
4	C 17612	SPRING - compression	1
5	C 21518	WASHER - nylon	1
6	C 18742	ROD - control	1
7	129- 122	NUT - 5/16" NF hex, zinc plated	1
8	C 19025	JOINT - ball	1
9	195- 521	WASHER - 5/16"	1
10	132- 320	PIN - cotter 3/32" x 3/4"	1
11	138- 323	PIN - roll 1/8 x 1-3/4"	1

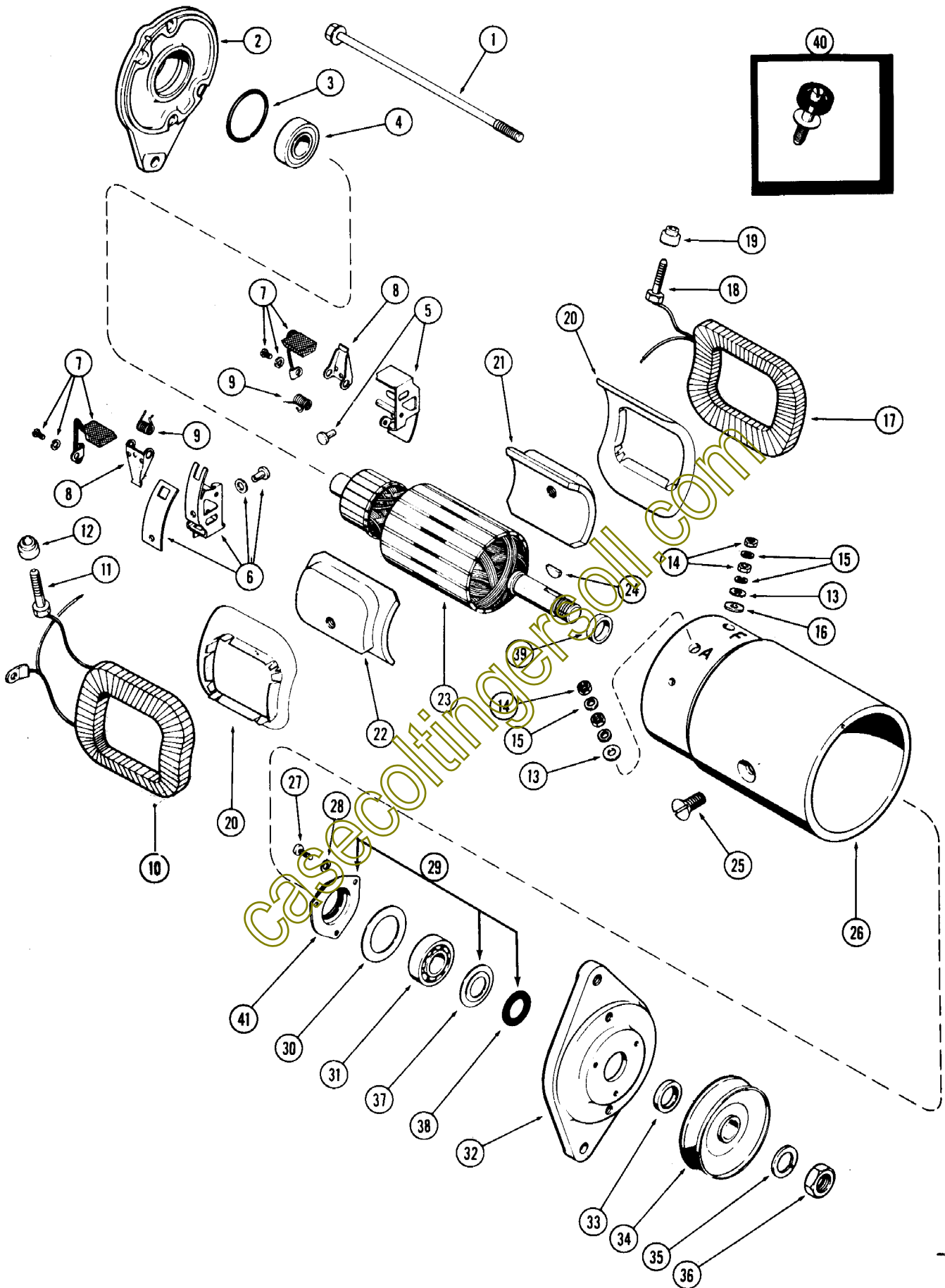
HYDRAULIC DRIVE MOTOR

	C 16697	MOTOR - hydraulic, 220, 222 and 224	1
	C 14655	MOTOR - hydraulic, 444	1
1	C 16516	RING - retaining	1
2	NSS	SPACER - (See kit below)	1
3	NSS	SEAL - oil (See kit below)	1
4	C 14827	HOUSING ASSEMBLY - 220, 222, 224 and 444	1
5	C 14837	END CAP	1
6	NSS	SEAL - (See kit below)	2
7	C 14828	SHAFT - coupling	1
8	D 59699	DRIVE LINK - 220, 222 and 224	1
8	C 14829	DRIVE LINK - 444	1
9	C 14830	PLATE - wear	1
10	C 18110	ROTOR ASSEMBLY - 220, 222 and 224	1
10	C 14831	ROTOR ASSEMBLY - 444	1
11	C 14832	PLATE - manifold	1
12	C 14833	MANIFOLD	1
13	C 14834	COMMUTATOR AND RING SET	1
14	NSS	RING - sealing (See kit below)	1
15	C 18092	SLEEVE - 220, 222 and 224	1
15	C 14836	SLEEVE - 444	1
16	28- 662	BOLT 3/8" x 3-7/8" NF hex, 220, 222 and 224	7
16	C 14838	BOLT - 3/8" x 4-3/8" NF hex, 444	7
17	NSS	WASHER - back up, .010" (See Kit below)	1
	C 19037	KIT - "O" ring and seal	1
	C 19041	RING - sealing	1
	C 19038	SEAL - dirt (not used - throw away item)	1
	C 18982	SEAL	2
	D 63367	SEAL	1
	C 16516	RING - retaining	1
	C 19040	SPACER - seal	1
	C 19212	WASHER - back up, .010"	1



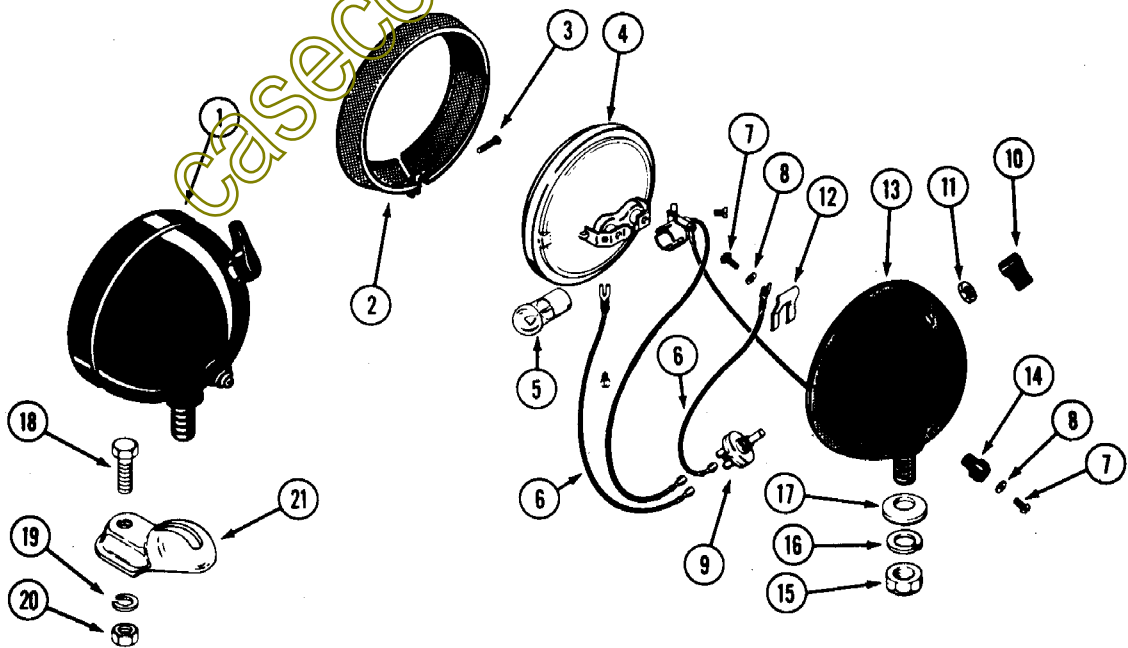
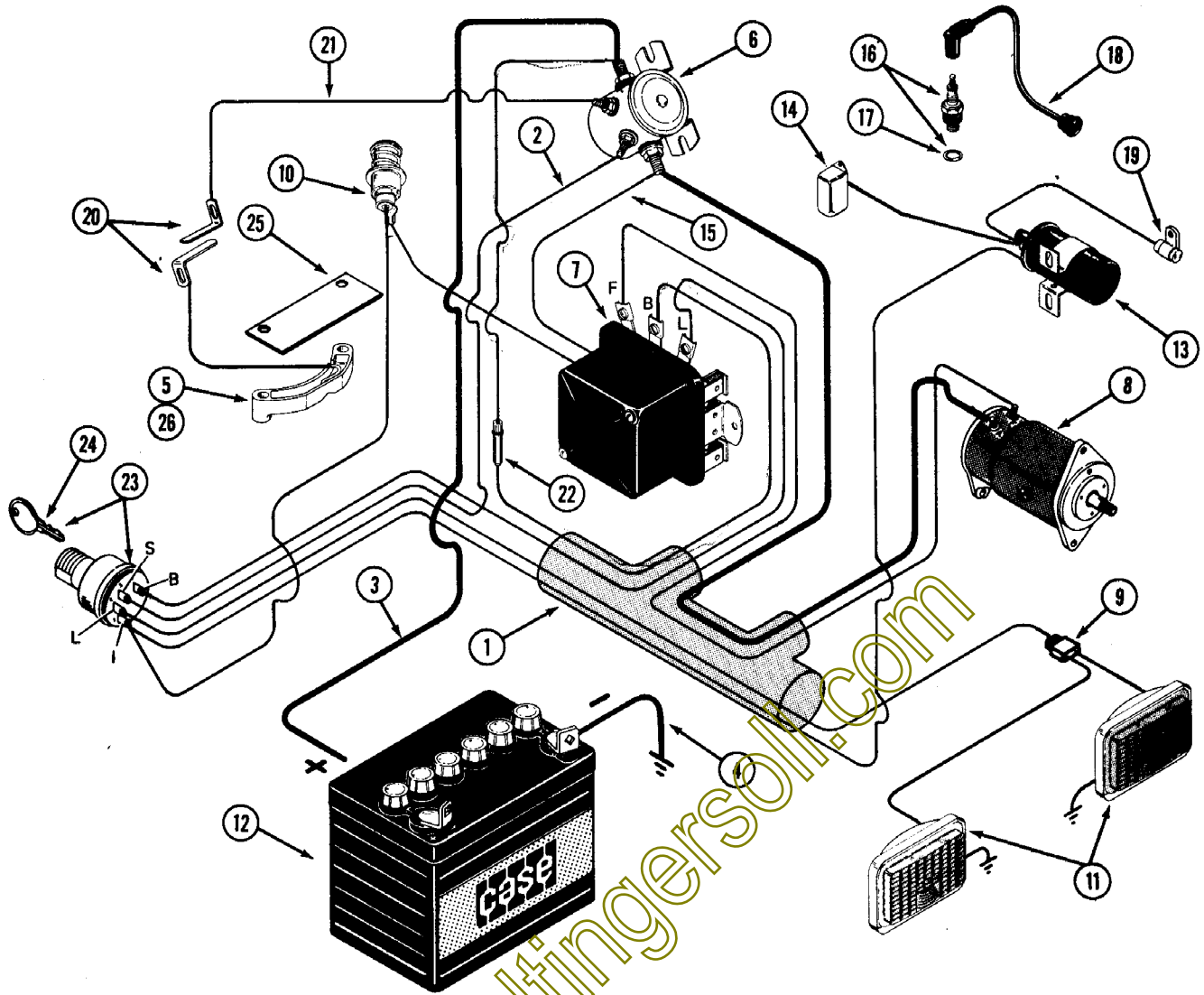
C 16852 STARTER-GENERATOR
(Order A70202 For Service Replacement)

REF.	PART NO.	DESCRIPTION	REQ'D
1	R 15106	BOLT - through	2
2	A 43494	FRAME ASSEMBLY - commutator end	1
3	192- 20	LOCKWASHER - 5/16"	2
4	A 40702	KIT - stud (Includes items 16, 18 and 19)	1
5	A 72039	HOLDER KIT - ground brush	1
6	A 72040	HOLDER KIT - insulated brush	1
7	A 72038	BRUSH ASSEMBLY	2
8	R 15090	ARM - brush pressure	2
9	R 16161	SPRING - brush arm	2
10	A 72042	COIL ASSEMBLY - field R.H.	1
11	A 72048	STUD - armature terminal	1
12	R 16147	BUSHING - insulated, armature stud	1
13	A 41927	WASHER - armature stud	2
14	129- 18	NUT - terminal stud 12-24 hex	4
15	192- 17	LOCKWASHER - terminal stud #12	4
16	R 16148	WASHER - insulated, field stud (Order A40702)	1
17	A 72043	COIL ASSEMBLY - field L.H.	1
18	NSS	STUD - field terminal (Order A40702)	1
19	R 15077	BUSHING - insulated, field stud (Order A40702)	1
20	A 25447	INSULATOR - field coil	2
21	A 40736	SHOE - pole	1
22	A 40736	SHOE - pole	1
23	A 43495	ARMATURE	1
24	126- 111	KEY - Woodruff, armature	1
25	A 42127	SCREW - pole	2
26	NSS	BODY - starter, generator (Order A70202 starter)	1
27	A 41959	SCREW - 10-32 x 1 2" round head	3
29	A 44433	RETAINER ASSEMBLY - bearing (Includes Refs. 37, 38 and 39)	1
30	R 16170	GASKET - bearing retainer	1
31	A 43356	BEARING - ball, drive end	1
32	A 72046	FRAME ASSEMBLY - drive end	1
33	A 72047	SPACER - pulley	1
34	C 14344	PULLEY - starter, generator drive	1
35	192- 116	LOCKWASHER - 11/16" plated	1
36	A 25546	NUT - armature shaft, drive end	1
37	NSS	RETAINER - grease (Order A44433)	1
38	NSS	SEAL - felt (Order A44433)	1
39	NSS	PLATE - retainer (order A44433)	1



**A70202 STARTER-GENERATOR
(DELCO NO. 1101970)**

REF.	PART NO.	DESCRIPTION	REQ'D
1	R 15106	BOLT - through (Includes washer)	2
2	A 72104	FRAME ASSEMBLY - commutator end	1
3	R 15087	RING - bearing retainer	1
4	A 25461	BEARING - commutator end ball	1
5	A 72039	HOLDER KIT - ground brush	1
6	A 72040	HOLDER KIT - insulated brush	1
7	A 72038	BRUSH ASSEMBLY	2
8	R 15090	ARM - brush pressure	2
9	R 16161	SPRING - brush arm	2
10	A 72042	COIL ASSEMBLY - field R.H.	1
11	A 72048	STUD - armature terminal	1
12	R 16147	BUSHING - insulated, armature stud	1
13	A 41927	WASHER - armature stud	2
14	129- 18	NUT - terminal stud 12-24 hex	4
15	192- 17	LOCKWASHER - terminal stud #12	4
16	R 16148	WASHER - insulated, field stud	1
17	A 72043	COIL ASSEMBLY - field L.H.	1
18	NSS	STUD - field terminal (See Ref. 40)	1
19	R 15077	BUSHING - insulated, field stud (Order A40702)	1
20	A 25447	INSULATOR - field coil	2
21	A 40736	SHOE - pole, plain	1
22	A 40736	SHOE - pole, notched	1
23	A 72041	ARMATURE	1
24	126- 111	KEY - Woodruff, armature	1
25	74- 610	SCREW - pole	2
26	NSS	BODY - starter, generator (Order A70202)	1
27	173- 237	SCREW - 10-32 x 1/2" rd. hd.	3
28	192- 18	LOCKWASHER - 3/16" plated	3
29	A 44433	RETAINER ASSEMBLY - bearing (Includes Ref. 37, 38 and 41)	1
30	R 16170	GASKET - bearing retainer	1
31	A 25441	BEARING - ball, drive end	1
32	A 72046	FRAME ASSEMBLY - drive end	1
33	A 72047	SPACER - pulley	1
34	C 14344	PULLEY - starter, generator drive	1
35	192- 26	LOCKWASHER - 11/16" plated	1
36	A 25546	NUT - armature shaft, drive end	1
37	NSS	RETAINER - grease (Order A44433)	1
38	NSS	SEAL - felt (Order A44433)	1
39	NSS	SPACER - armature shaft, inner	1
40	A 40702	KIT - stud (Includes items 16, 18 and 19)	1
41	NSS	PLATE - retainer (order A44433)	1

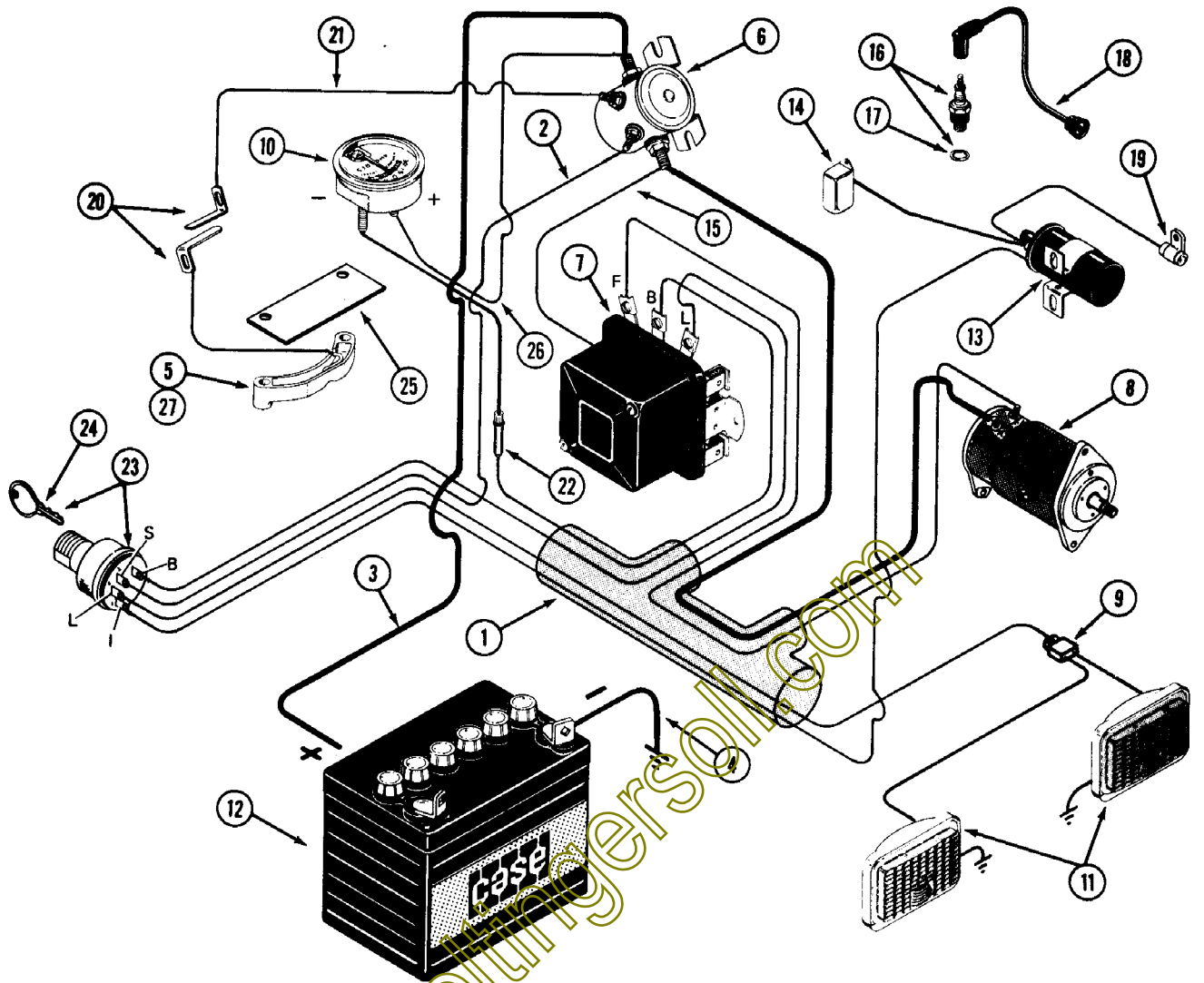


ELECTRICAL SYSTEM (USED ON MODELS WITH GEN. WARNING LIGHT)

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 19120	HARNESS - wire	1
2	C 17187	WIRE - ignition switch to solenoid (yellow 8")	1
3	C 14565	CABLE - battery "+" to solenoid (red 10-1/2")	1
4	C 14566	CABLE - battery to ground (black 12")	1
5	NSS	SWITCH - neutral start (order Kit C21993 below)	1
6	C 14553	SOLENOID - start, 12 volt	1
7	A 70221	REGULATOR - voltage, 12 volt	1
8	C 16852	STARTER - generator 12 V. (Repairs page 57) Delco No. 1101875	1
8	A 70202	STARTER - generator 12 V. (Repairs page 59) Delco No. 1101970	1
9	C 14537	CONNECTOR - headlamp	1
10	C 17186	LAMP ASSEMBLY - warning, generator indicator	1
	B 50213	BULB - generator indicator (red)	1
11	C 22571	HEADLAMP ASSEMBLY - 12 volt (Repairs page 63)	2
12	C 18197	BATTERY - 12 volt	1
13	KO 231281	COIL - ignition 12 volt	1
14	KO 232535	COVER - breaker contacts	1
15	C 17275	WIRE - regulator "G" terminal (to solenoid (white 7"))	1
16	M 20007	SPARK PLUG - (includes gasket)	1
17	A 27251	GASKET - spark plug	1
18	KO 238057	CABLE - high tension	1
19	KO 230722	CONDENSER	1
20	C 18115	SWITCH - PTO safety	2
21	C 19055	WIRE - solenoid to PTO safety switch (black 17")	1
22	223- 20	FUSE - 20 amp. (used in C19120 harness)	1
23	C 21595	SWITCH - ignition (includes key)	1
24	C 17763	KEY - ignition (for C17976 switch)	1
25	C 21989	INSULATOR - safety start switch	1
26	C 21988	SWITCH ASSY - neutral start (used 444 S/N 9710421, 224 SN 9708220, 222 S/N 9706113, 220 S/N 9702608 and after	1
	C 21993	KIT - switch, neutral start	1

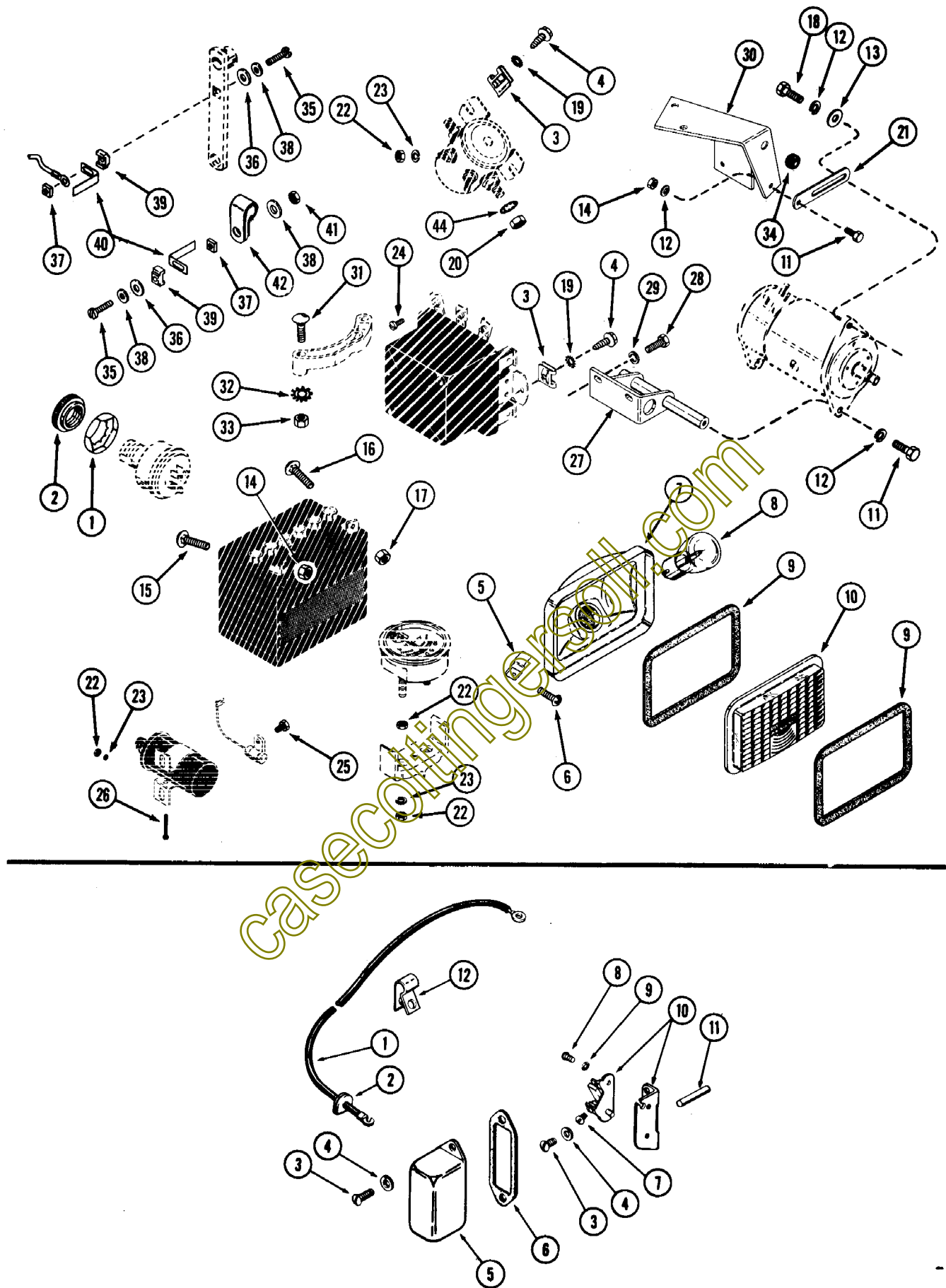
TAIL LAMP (OPTIONAL)

1	A 20965	LAMP ASSEMBLY - flood and tail	1
2	B 50255	MOLDING - lamp retaining	1
3	10934	SCREW - molding	1
4	A 40855	LAMP - sealed unit	1
5	B 50223	BULB - red 15 C.P. 12 volt.	1
6	B 50273	WIRE - switch	2
7	173- 73	SCREW - wire	2
8	193- 4	WASHER - 1/4" lock	2
9	NSS	SWITCH (see Kit below)	1
10	NSS	KNOB - switch (see Kit below)	1
11	A 39888	NUT - switch	1
12	10927	SPRING - terminal	1
13	NSS	BODY	1
14	B 50293	TERMINAL - wire	1
15	129- 105	NUT - 1/2" NC hex	1
16	192- 23	WASHER - 1/2" lock	1
17	10923	WASHER - bearing	1
18	113- 209	BOLT - 3/8 x 1-1/2" NC hex, zinc plated	1
19	192- 21	LOCKWASHER - 3/8" zinc plated	1
20	129- 103	NUT - 3/8" NC hex, zinc plated	1
21	A 34046	BRA CKET - mounting, tail lamp	1
	A 43182	KIT - switch (includes knob)	1



ELECTRICAL SYSTEM **(USED ON MODELS WITH AMMETER)**

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 21948	HARNESS - wire	1
2	C 17187	WIRE - ignition switch to solenoid (yellow 8")	1
3	C 14565	CABLE - battery "+" to solenoid (red 10-1/2")	1
4	C 14566	CABLE - battery to ground (black 12")	1
5	NSS	SWITCH - neutral start (order kit C21993 below)	1
6	C 14553	SOLENOID - start, 12 volt.	1
7	A 70221	REGULATOR - voltage, 12 volt	1
8	C 16852	STARTER - generator, 12 V. (repairs page 57) Delco No. 1101875	1
8	A 70202	STARTER - generator, 12 V. (repairs page 59) Delco No. 1101920	1
9	C 14537	CONNECTOR - head lamp.	1
10	C 18389	AMMETER.	1
11	C 22571	HEADLAMP ASSEMBLY - 12 Volt (repairs page 63)	2
12	C 18197	BATTERY - 12 Volt	1
13	KO 231281	COIL - ignition, 12 Volt	1
14	KO 232535	COVER - breaker contacts.	1
15	C 17275	WIRE - regulator "G" terminal to solenoid (white 7")	1
16	M 20007	SPARK PLUG - (includes gasket).	1
17	A 27251	GASKET - spark plug	1
18	KO 238057	CABLE - high tension	1
19	KO 230722	CONDENSER	1
20	C 18115	SWITCH - PTO safety	2
21	C 19055	WIRE - solenoid to PTO safety switch (black 17")	1
22	223- 20	FUSE - 20 amp.	1
23	C 21595	SWITCH - ignition (includes key)	1
24	C 17763	KEY - ignition.	1
25	C 21989	INSULATOR - safety start switch	1
26	C 21950	WIRE - solenoid to ammeter "+"	1
27	C 21988	SWITCH - neutral start (used 444 S/N 9710421, 224 S/N 9708220, 222 S/N 9706113, 220 S/N 9702608 and after)	1
	C 21993	KIT - switch, neutral start	1

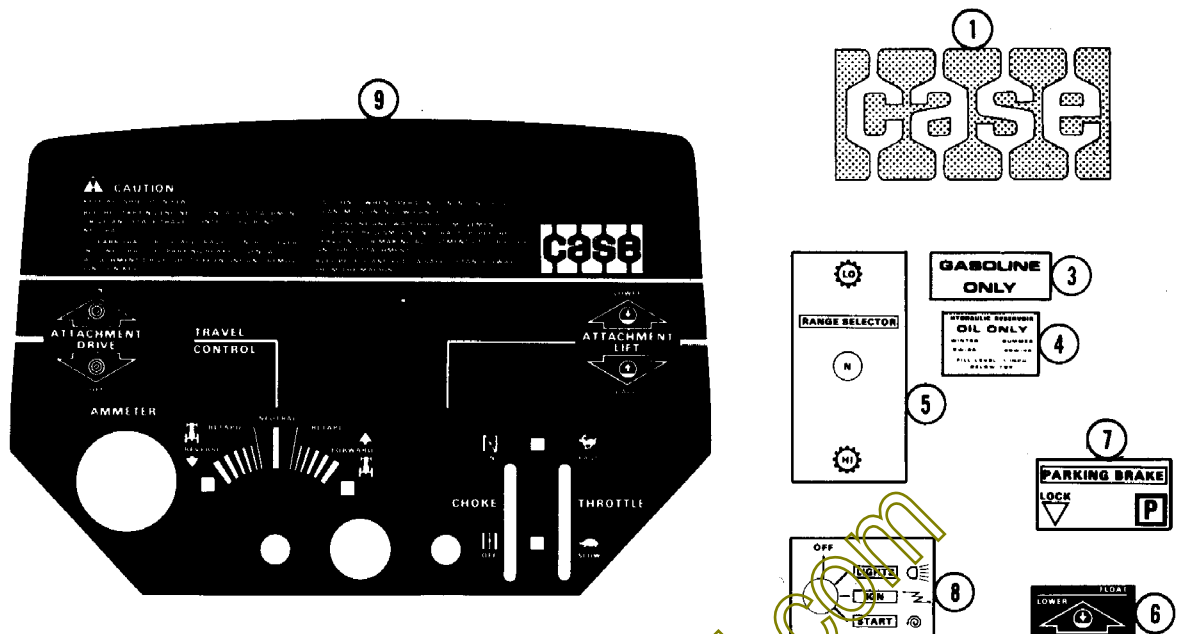


ELECTRICAL SYSTEM HARDWARE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 14060	NUT - back up 3/4"	1
2	C 17921	NUT - escutcheon 3/4"	1
3	C 10836	NUT - speed type "U"	4
4	187- 485	SCREW - #10 x 5/8" Self-Tapping Hex. Zinc Plated	4
5	131- 629	NUT - speed type "U"	4
6	187- 1047	SCREW - #8 x 1/2" Self-Tapping round head, Phillips.	4
	C 22571	HEADLAMP ASSEMBLY	2
7	NSS	RECEPTACLE - headlamp (Order C22571).	1
8	C 14305	BULB - headlamp.	1
9	C 14304	GASKET - headlamp	2
10	C 22573	LENS - headlamp	1
11	113- 103	BOLT - 5/16 x 1" NC hex, zinc plated	2
12	192- 20	LOCKWASHER - 5/16" zinc plated	3
13	195- 520	WASHER - 5/16" plain, zinc plated	2
14	129- 102	NUT - 5/16" NC hex, zinc plated	2
15	111- 202	BOLT - 5/16 x 3/4" NC, round head, square neck	1
16	111- 108	BOLT - 1/4 x 3/4" NC, round head, square neck	1
17	129- 101	NUT - 1/4" NC hex	1
18	113- 102	BOLT - 5/16 x 3/4" NC hex, zinc plated	1
19	193- 70	LOCKWASHER - #10 external tooth	4
20	129- 122	NUT - 5/16" NF hex.	2
21	C 14599	BRACKET - starter generator adjust	1
22	129- 27	NUT - #10 NF hex.	8
23	192- 18	LOCKWASHER - #10	6
24	169- 131	SCREW - #8 x 5/16" NC fillister head	3
25	22- 58	BOLT - 5/16 x 1/2" NC hex, self tap	2
26	187- 1844	SCREW - #10 UNF x 1-1/2" self tap	1
27	C 18788	SUPPORT - starter generator	1
28	13- 612	BOLT - 3/8 x 3/4" NC hex.	2
29	192- 21	LOCKWASHER - 3/8"	2
30	C 18999	SUPPORT - starter generator adjust	1
31	111- 131	BOLT - 1/4 x 1-1/8" NC round head, square neck.	2
32	193- 57	LOCKWASHER - 1/4" external tooth	2
33	129- 101	NUT - 1/4" NC hex	2
34	C 17546	GROMMET - wire.	1
35	182- 523	SCREW - #10 x 7/8" binder head	2
36	C 19254	WASHER - nylon 13/64".	2
37	129- 77	NUT - #10-32 square	2
38	195- 513	WASHER - #10	2
39	C 19246	HOLDER - strip switch	2
40	C 18115	STRIP - switch.	2
41	129- 37	NUT - #10 NC hex	1
42	C 21679	CLAMP, choke & throttle	1
43	195- 521	WASHER, 11/32"	1
44	193- 29	LOCKWASHER - 5/16"	2

BREAKER CONTACTS

1	KOA 231533	LEAD - breaker contact (Includes grommet)	1
2	KO 220297	GROMMET - contact lead	1
3	173- 210	SCREW - #10 x 3/8" round head, zinc plated	4
4	192- 18	LOCKWASHER - 3/16" zinc plated.	4
5	KO 232535	COVER - breaker contact	1
6	KO 220174	GASKET - cover	1
7	187- 408	SCREW - #6 x 3/8" Self-Tapping	1
8	173- 224	SCREW - #8 x 1/4" NC round head.	1
9	193- 5	LOCKWASHER - #8 internal tooth.	1
10	KOA 220474	POINT SET - breaker contact assembly.	1
11	C 18100	ROD - breaker contact push	1
12	KO 275182	CLIP - wire	1



Case hydraulic drive **220**

Case hydraulic drive **222**

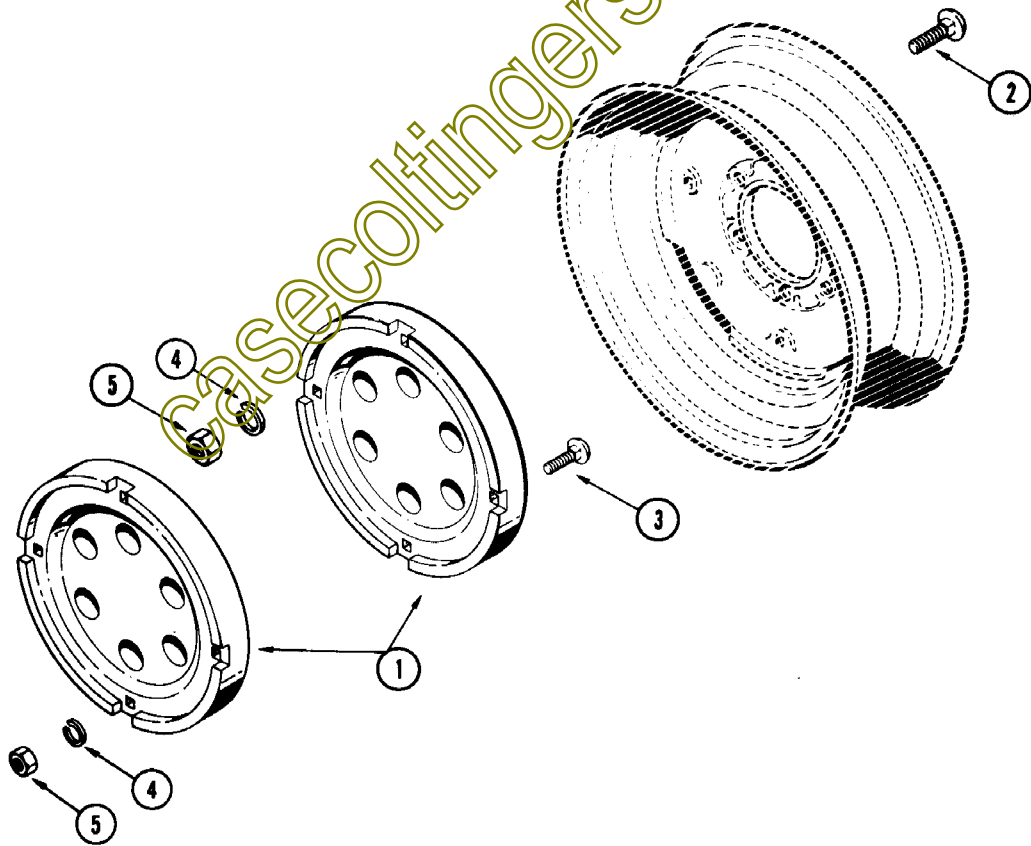
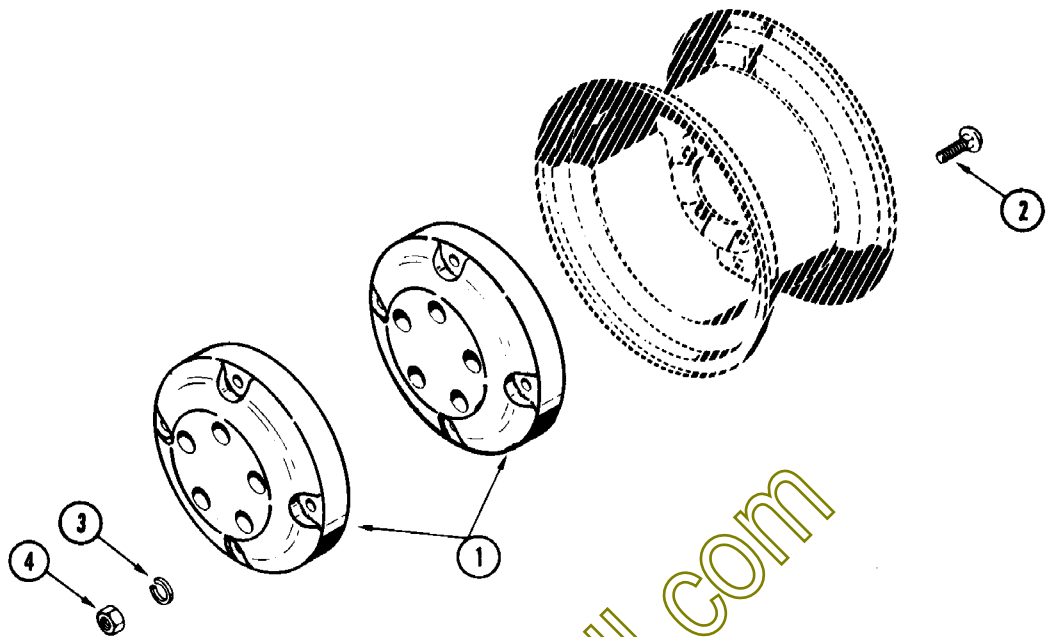
Case hydraulic drive **224**

Case hydraulic drive **444**

DECALS

REF.	PART NO.	DESCRIPTION	REQ'D
1	321- 1423	DECAL - "CASE"	1
3	C 14066	DECAL - gasoline	1
4	C 14539	DECAL - hydraulic reservoir	1
5	321- 1788	DECAL - shift range	1
6	321- 2658	DECAL - float	1
7	321- 2110	DECAL - brake	1
8	321- 1786	DECAL - ignition switch	1
9	321- 2624	DECAL - instrument panel (used with gen. indicator light)	1
9	321- 2625	DECAL - instrument panel (used with ammeter)	1
10	C 15690	DECAL - hood 220 R.H.	1
11	C 15691	DECAL - hood 220 L.H., hydraulic drive	1
12	C 15692	DECAL - hood 222 R.H.	1
13	C 15693	DECAL - hood 222 L.H., hydraulic drive	1
14	321- 2468	DECAL - hood 224 R.H.	1
15	321- 2469	DECAL - hood 224 L.H., hydraulic drive	1
16	C 15696	DECAL - hood 444 R.H.	1
17	C 15697	DECAL - hood 444 L.H., hydraulic drive	1

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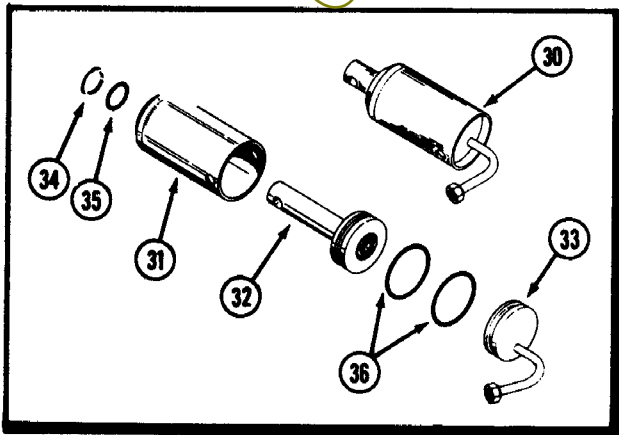
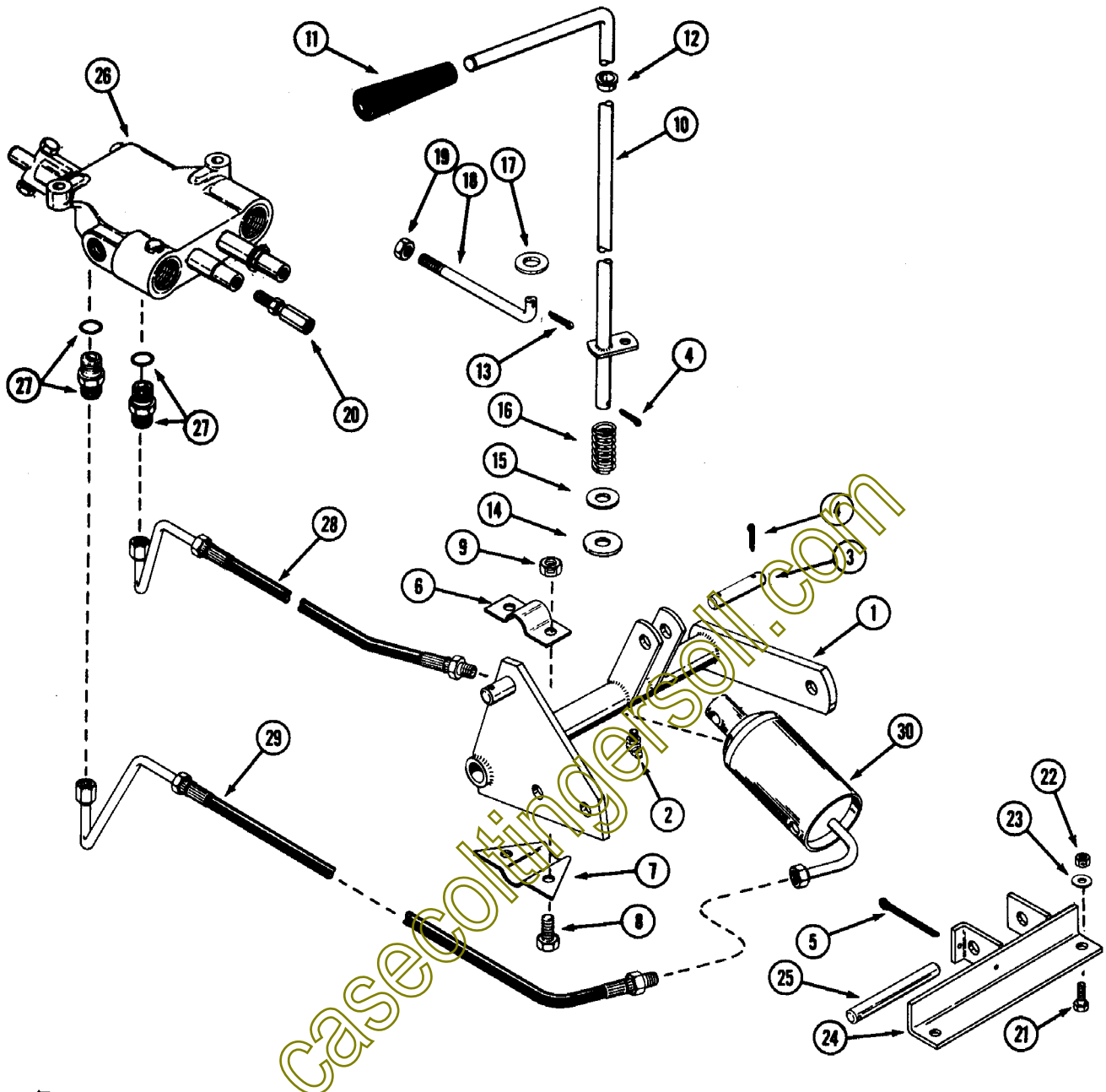
D8 WHEEL WEIGHTS - MODEL 220, 222 AND 224

REF.	PART NO.		DESCRIPTION	REQ'D
1	NSS		WEIGHT - wheel 12" (Order as Machinery Item)	4
2	111-	532	BOLT - 1/2 x 3-3/4" round head, square neck, NC, zinc plated	8
3	192-	23	LOCKWASHER - 1/2" zinc plated	8
4	129-	105	NUT - 1/2" NC hex	8

D10 WHEEL WEIGHTS - MODEL 444

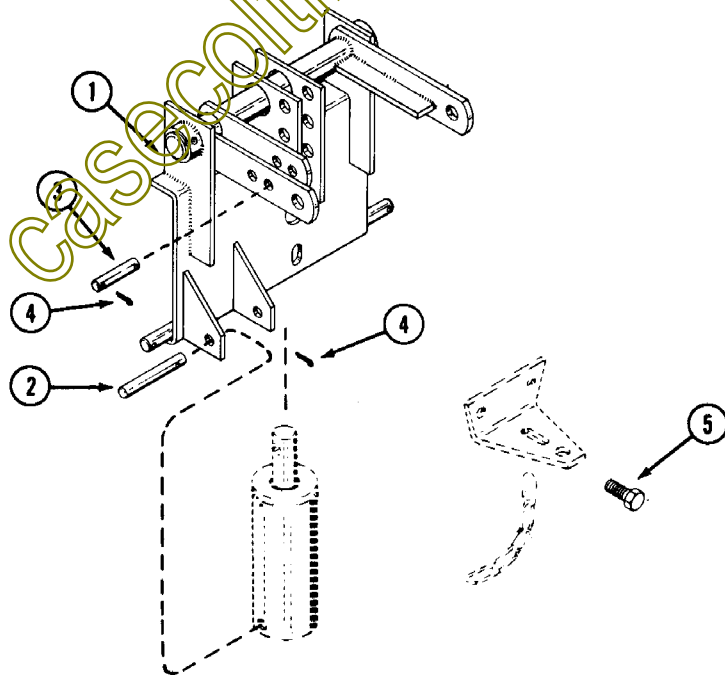
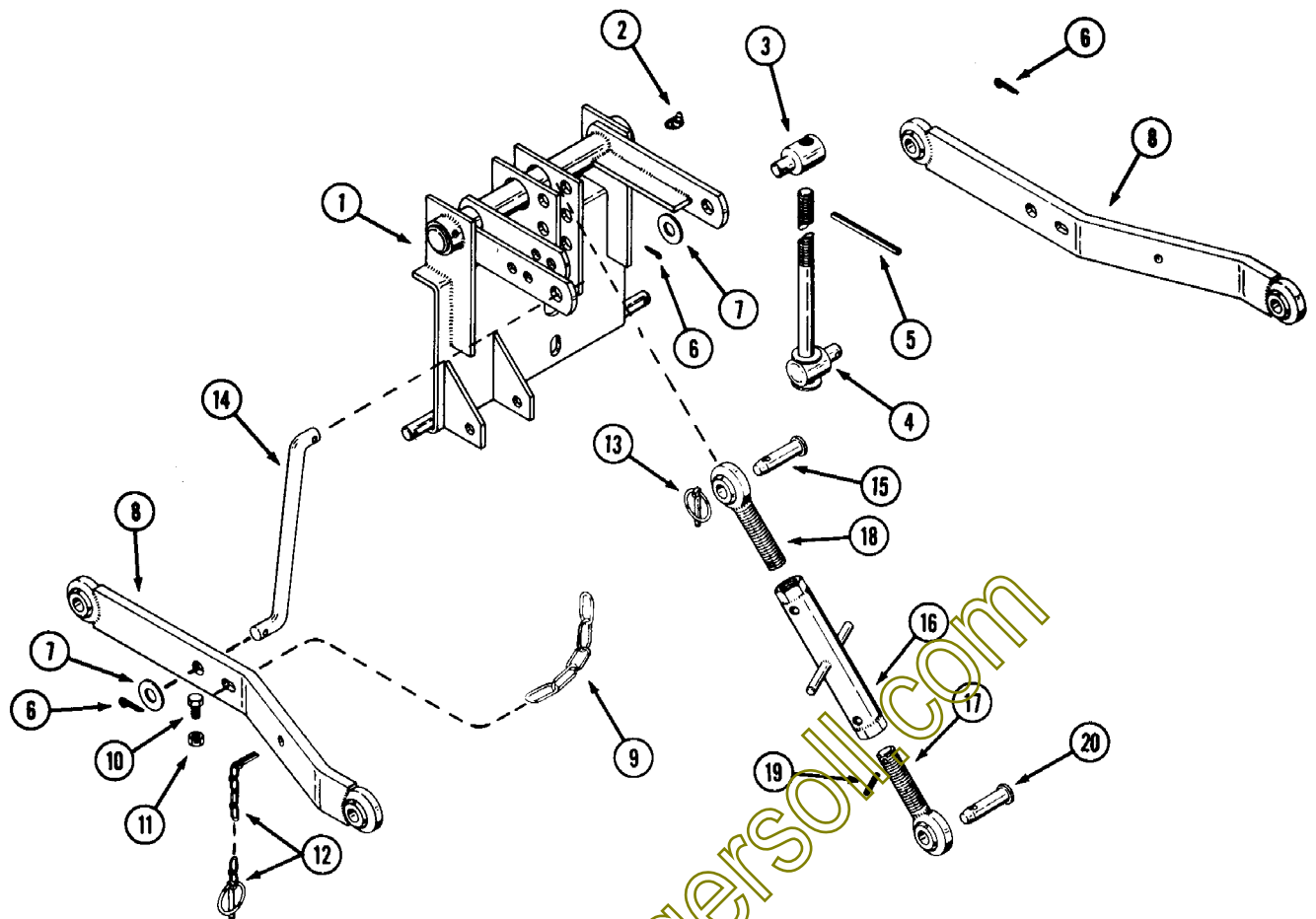
1	NSS		WEIGHT - wheel 15" and 16" (Order as Machinery Item)	4
2	111-	530	BOLT - 1/2 x 2-1/2" round head, square neck, NC, zinc plated	4
3	111-	531	BOLT - 1/2 x 2-3/4" round head, square neck, NC, zinc plated	4
4	92-	8	LOCKWASHER - 1/2" zinc plated	8
5	129-	105	NUT - 1/2" NC hex	8

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MODEL J30 HYDRAULIC LIFT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18808	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"	3
5	132- 361	PIN - cotter 1/8" x 2-1/2"	1
6	C 17249	BRACKET - mounting, top	2
7	C 17250	BRACKET - mounting, bottom	2
8	13- 614	BOLT - 3/8" x 7/8" NC hex	4
9	131- 178	NUT - 3/8" NC hex	4
10	C 16163	LEVER - lift control	1
11	A 37247	KNOB - control lever	1
12	C 12093	BUSHING - lift lever	1
13	132- 320	PIN - cotter 3/32" x 3/4"	1
14	195- 533	WASHER - 1/2"	1
15	C 21518	WASHER - nylon	1
16	C 17612	SPRING - control lever	1
17	195- 521	WASHER - 5/16"	1
18	C 18742	ROD - control	1
19	129- 122	NUT - 5/16 NF hex	1
20	C 19025	BALL JOINT	1
21	113- 207	BOLT - 3/8" x 1" NC hex	2
22	131- 178	LOCKNUT - 3/8" NC hex	2
23	195- 104	WASHER - 3/8" x 1-1/8" OD	2
24	C 18810	BRACKET - cylinder	1
25	C 17536	PIN - cylinder foot	1
26	C 21496	VALVE - hydraulic, 2 spool	1
27	218- 5056	FITTING - valve (includes 218-5004 "O" ring)	2
28	C 17224	HOSE - short	1
29	C 17734	HOSE - long	1
30	C 18318	CYLINDER - lift	1
31	C 16133	BODY - cylinder	1
32	C 19104	ROD AND PISTON ASSEMBLY	1
33	C 17732	FOOT - cylinder	1
34	NSS	SEAL	1
35	NSS	"O" RING	1
36	NSS	"O" RING	2
	C 17268	KIT - seal, cylinder (consists of items 34, 35, and 36)	1
	C 13106	COVER - lube fitting	1

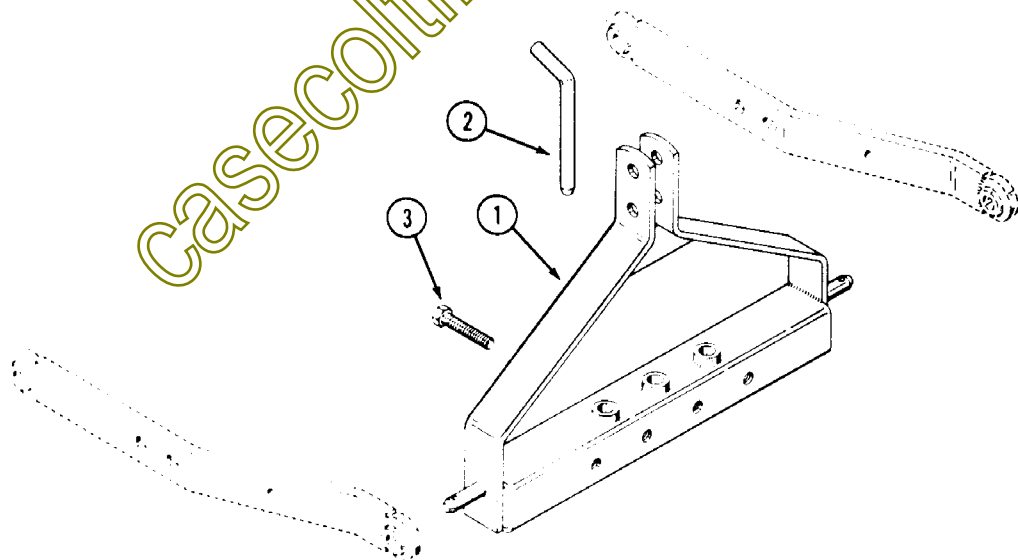
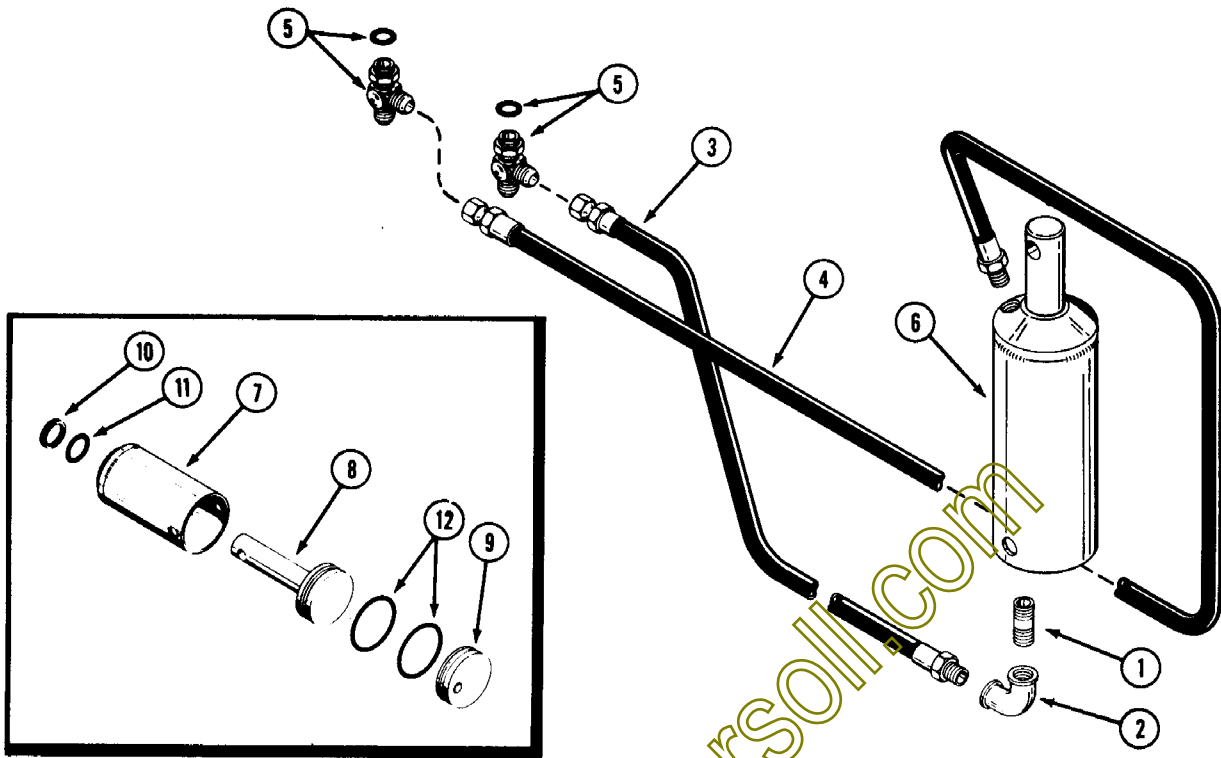


H26 THREE POINT HITCH 444 FRAME, LIFT RODS AND ARMS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 19740	HITCH PLATE ASSEMBLY	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- 309	PIN - roll 1/4 x 4"	1
6	132- 91	PIN - cotter 3/16 x 1"	6
7	195- 541	WASHER - plain 5/8"	4
8	C 14715	ARM - lift	2
9	C 14991	CHAIN - stay 19 links	1
10	113- 118	BOLT - 5/16 x 5/8" hex, zinc plated	2
11	131- 176	NUT - lock 5/16" NC hex	2
12	B 52118	PIN - klik	2
13	A 30338	PIN - klik	3
14	C 14725	ROD - lift L.H.	1
15	C 14717	PIN - clevis	1
	C 14712	LINK ASSEMBLY	1
16	C 14703	CENTER TUBE ASSEMBLY	1
17	C 14709	BALL END ASSEMBLY R.H. THREAD.	1
18	C 14710	BALL END ASSEMBLY L.H. THREAD.	1
19	138- 59	PIN - roll 1/8 x 7/8"	2
20	C 16128	PIN - clevis 5/8 x 3"	1

CYLINDER AND DRAWBAR MOUNTING

1	C 19740	HITCH PLATE ASSEMBLY	1
2	C 14975	PIN - lower cylinder mounting	1
3	C 14976	PIN - upper cylinder mounting	1
4	132- 310	PIN - cotter 1/8 x 1"	3
5	113- 417	BOLT - 1/2 x 1-1/4" NC, hex, zinc plated.	2

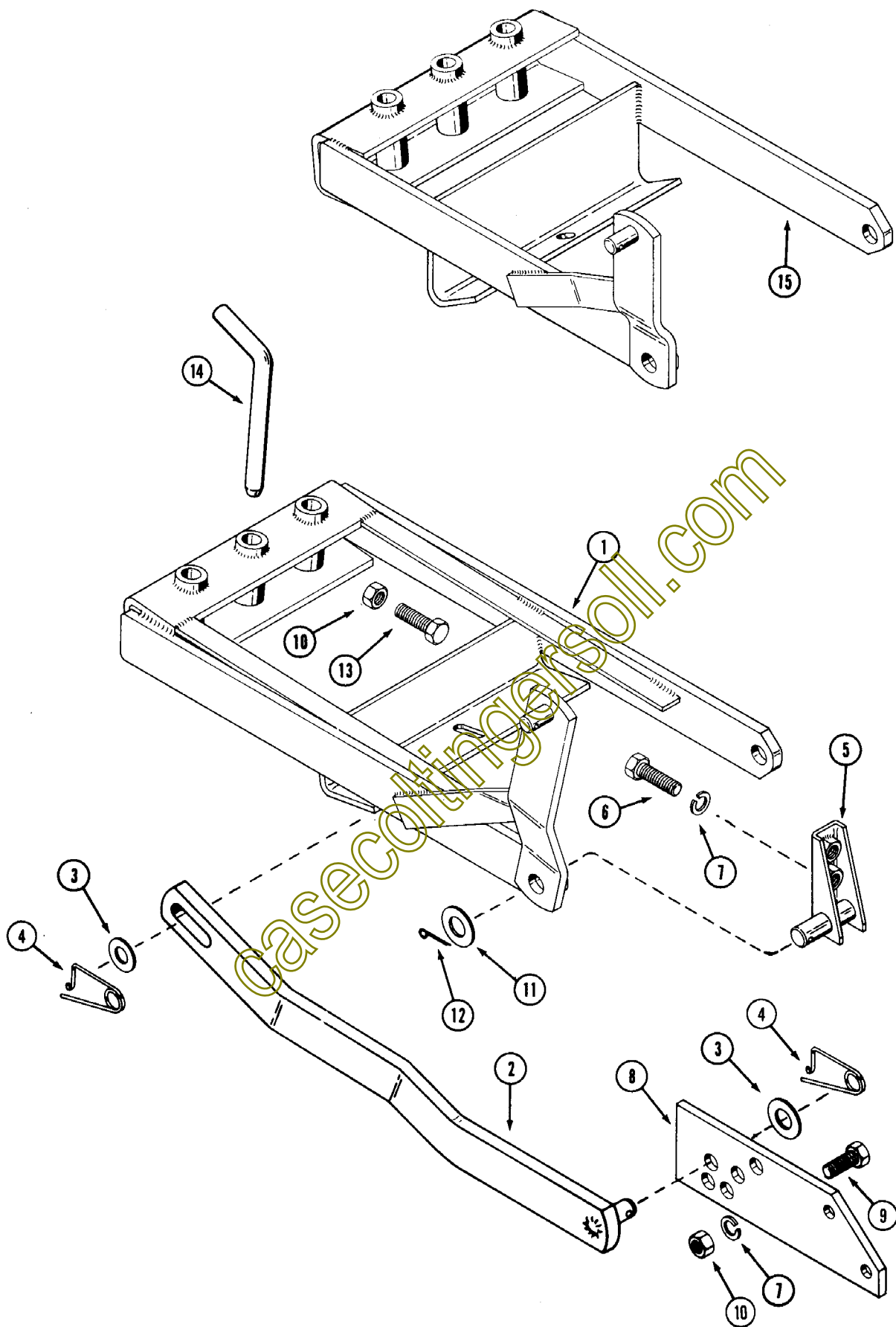


**MODEL H26 THREE POINT HITCH AND
MODEL F27 HITCH ADAPTER
HYDRAULIC CONNECTIONS AND COMPONENTS**

REF.	PART NO.	DESCRIPTION	REQ'D
1	221- 1134	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	C 19468	CYLINDER ASSEMBLY.	1
7	C 15768	BODY - cylinder	1
8	C 19469	ROD AND PISTON ASSEMBLY.	1
9	C 14692	FOOT - cylinder.	1
10	NSS	SEAL - wiper	1
11	NSS	"O" RING	1
12	NSS	"O" RING	2
13	C 17268	KIT - seal (Consists of items 10, 11 and 12).	1

MODEL F27 HITCH ADAPTER

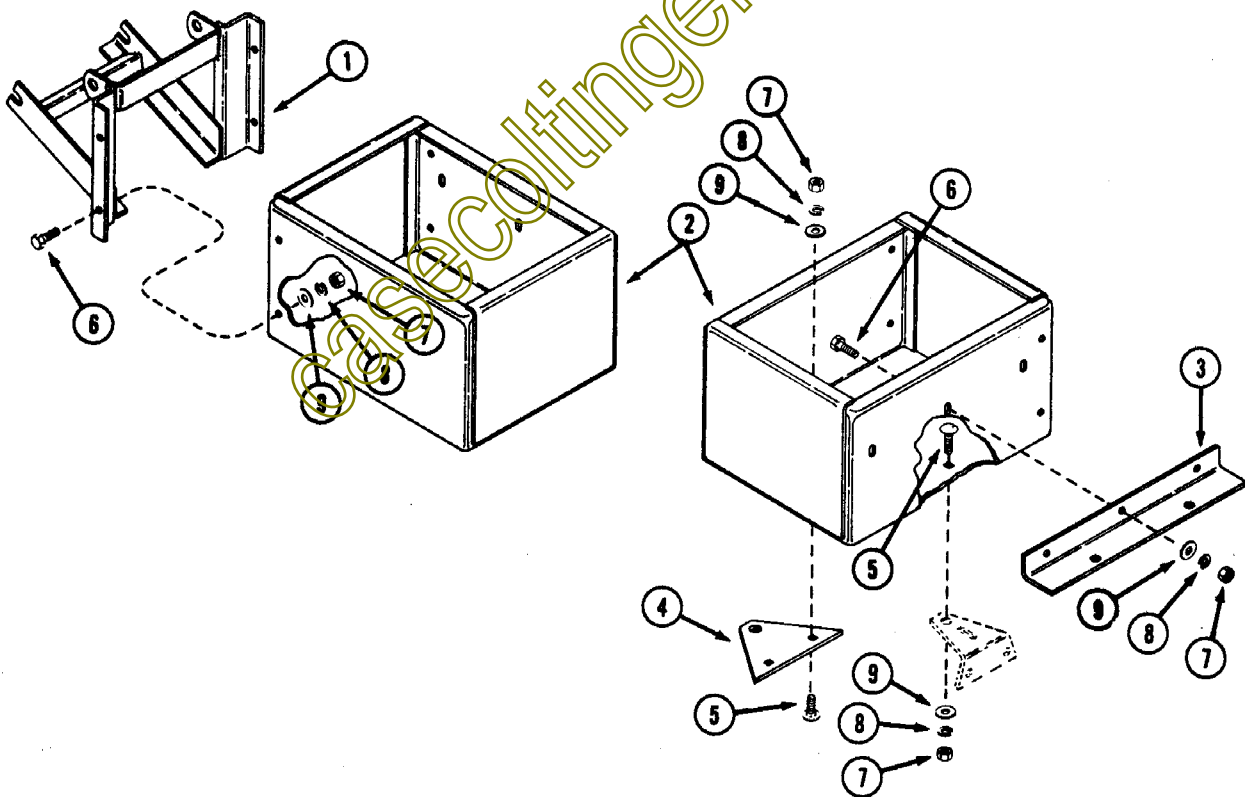
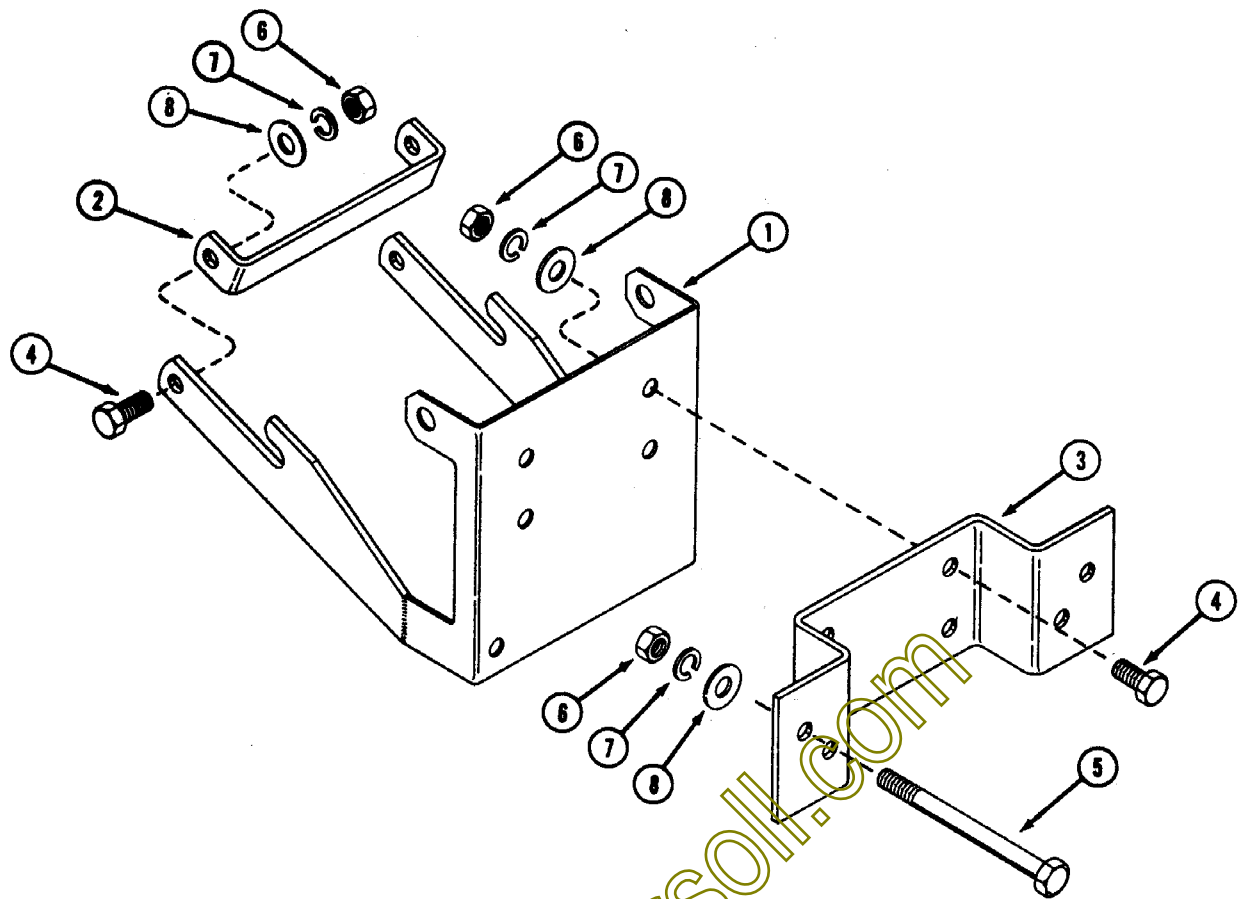
1	C 14872	BRACKET - hitch adapter	1
2	C 14568	PIN - drawbar	1
3	113- 425	BOLT - 1/2 x 3" NC hex, zinc plated	4



MODEL H22 AND H24 SLEEVE HITCH

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 14867	HITCH FRAME ASSEMBLY (444)	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.	1
5	C 14460	BRACKET - hitch mounting, L.H.	1
6	113- 417	BOLT - 1/2 x 1-1/4" NC hex, zinc plated	4
7	192- 23	LOCKWASHER - 1/2" zinc plated	6
8	C 17219	PLATE - lift lever	1
9	113- 417	BOLT - 1/2 x 1-1/4" NC hex, zinc plated	2
10	129- 105	NUT - 1/2" NC hex, zinc plated	4
11	195- 545	WASHER - plain 3/4" zinc plated	2
12	132- 306	PIN - cotter 3/16 x 1-3/4"	2
13	113- 421	BOLT - 1/2 x 2" NC hex, zinc plated	2
14	C 14568	PIN - drawbar	1
15	C 14866	HITCH FRAME ASSEMBLY (220, 222 and 224)	1

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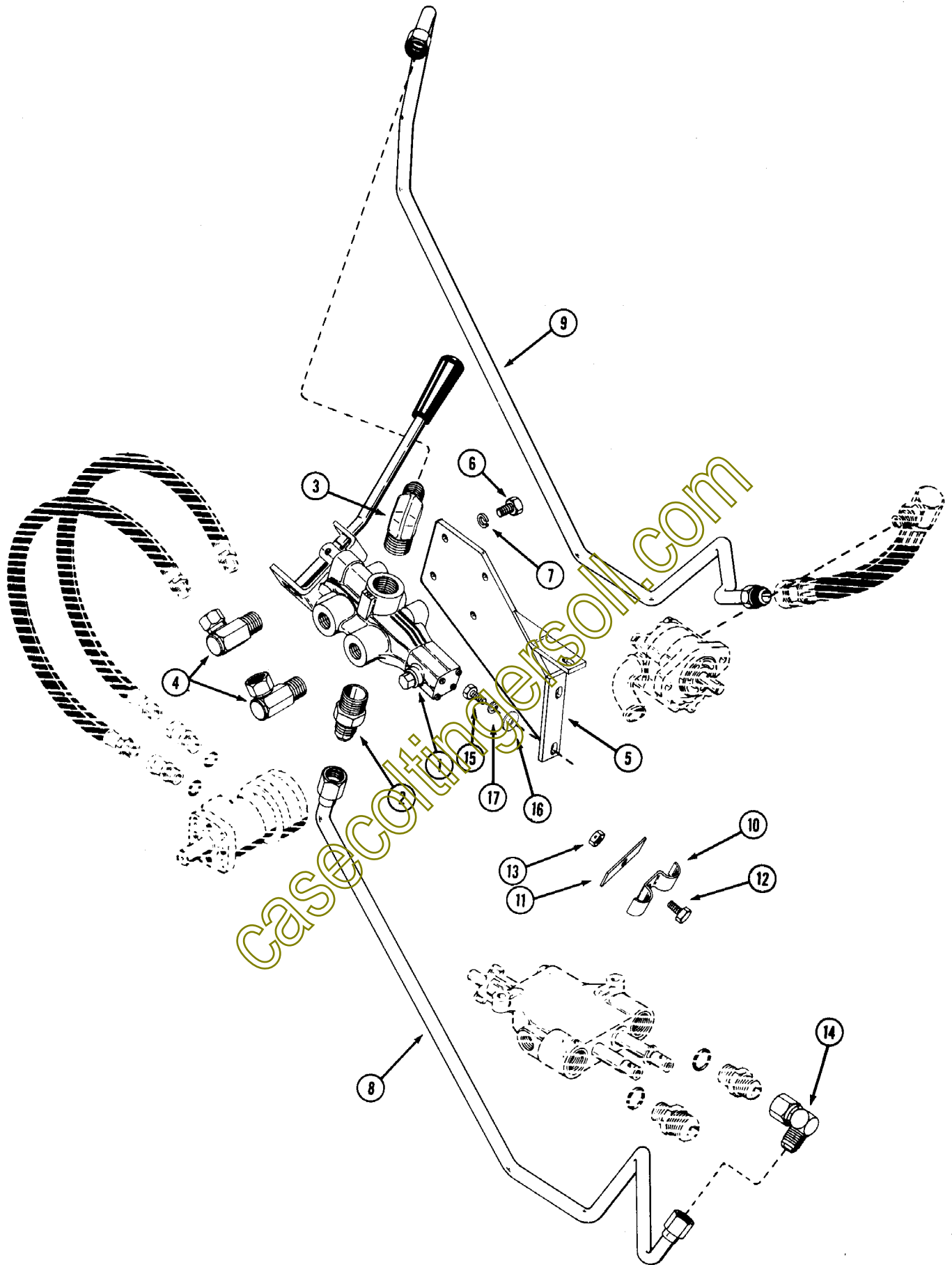


MODEL H18 FRONT END WEIGHT BRACKETS

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 1-1/4" NC hex, zinc plated	6
5	113-	443	BOLT - 1/2 x 6-1/2" NC hex	2
6	25-	108	NUT - 1/2" NC hex, zinc plated	8
7	192-	23	LOCKWASHER - 1/2"	8
8	195-	533	WASHER - 1/2" zinc plated	8

MODEL H13 WEIGHT BOX

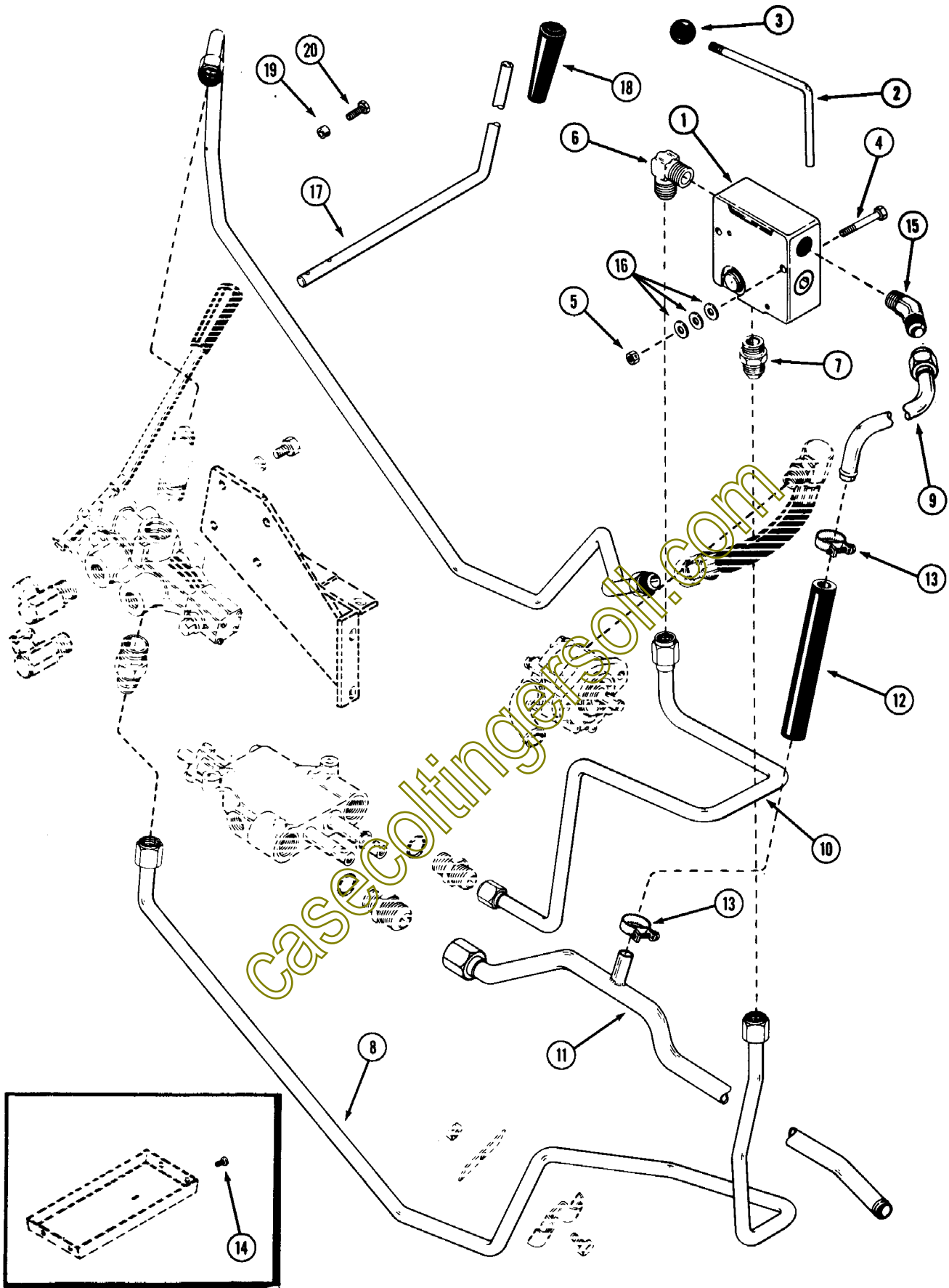
1	C	17859	FRAME - weight box	1
2	C	17863	BOX - weight	1
3	C	17860	SUPPORT - weight box	1
4	C	17636	PLATE - hitch	1
5	111-	317	BOLT - 3/8 x 1" round head, square neck	3
6	113-	207	BOLT - 3/8 x 1" NC hex	4
7	129-	103	NUT - 3/8" NC hex	7
8	192-	21	LOCKWASHER - 3/8"	7
9	195-	525	WASHER - 3/8"	7



J-17 HYDRAULIC PTO KIT

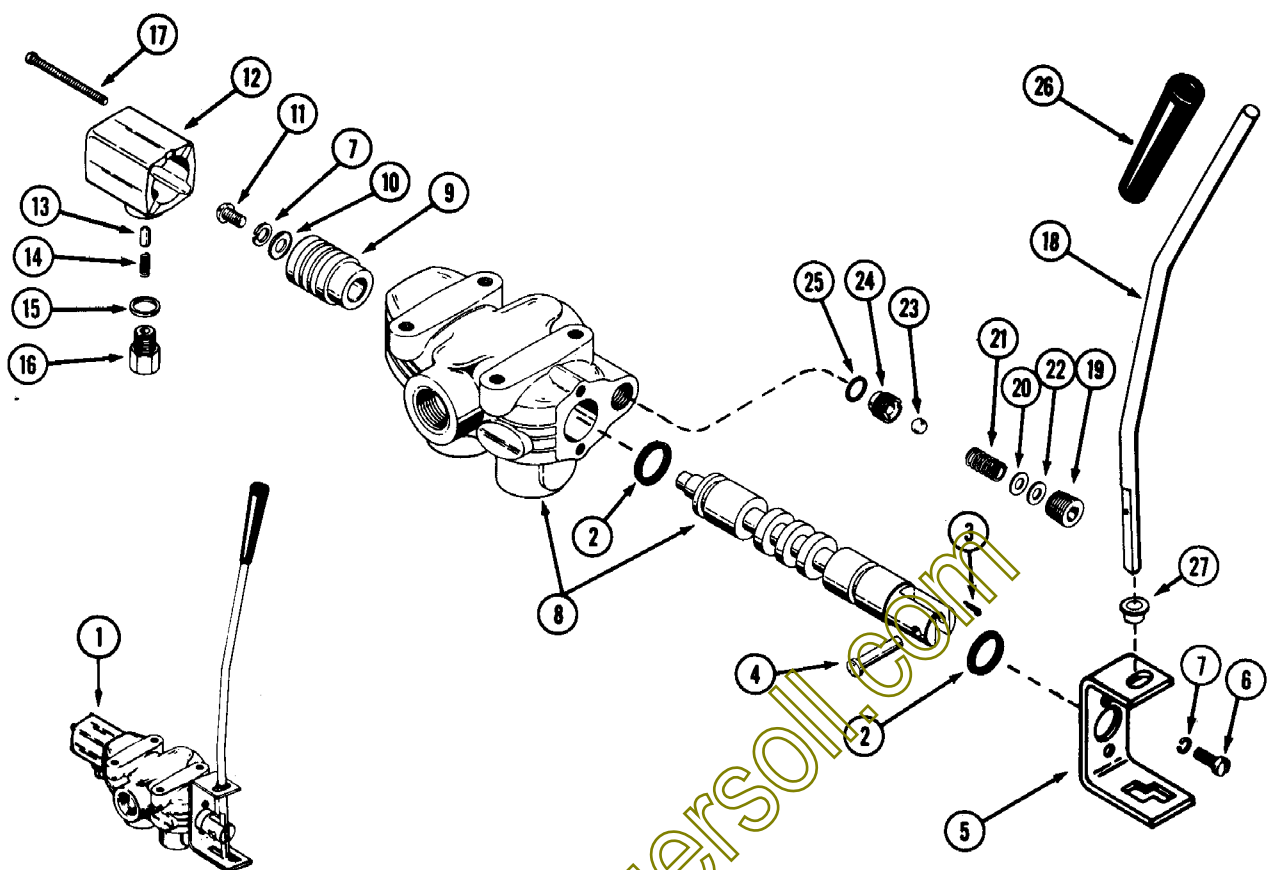
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18281	VALVE - PTO control	1
2	218- 457	FITTING - straight 3/4" NPT x 5/8" tube.	1
3	218- 494	FITTING - elbow - 90° 3/4" NPT x 5/8" tube.	1
4	218- 927	FITTING - elbow - 90° 1/2" NPT x 1/2" female NPSM swivel	2
5	C 19418	BRACKET - valve mounting	1
6	113- 206	BOLT - 3/8" hex NC x 3/4"	4
7	192- 21	LOCKWASHER - 3/8"	4
8	C 19401	TUBE - pump to PTO valve	1
9	C 19400	TUBE - PTO valve to travel control valve	1
10	C 15389	CLAMP - double tubing.	1
11	C 19424	BAR - clamp	1
12	113- 102	BOLT - 5/16" hex NC x 3/4"	1
13	129- 102	LOCKNUT - 5/16" NC hex	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" NC hex (fender mtg.)	3
16	195- 521	WASHER - 5/16" (fender mtg.)	3
17	192- 20	LOCKWASHER - 5/16" (fender mtg.)	3

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MODEL K-19 FLOW CONTROL VALVE KIT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18722	VALVE - flow control	1
2	C 18720	LEVER - valve	1
3	A 61683	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	1
7	218- 445	FITTING - straight 1/2" NPT	2
8	C 19402	TUBE - valve to PTO valve	1
9	C 19404	TUBE - bypass to return line	1
10	C 19403	TUBE - valve to tractor valve	1
11	C 19405	TUBE - heat exchanger	1
12	C 19474	HOSE - return	1
13	214- 6	CLAMP - hose	2
14	182- 515	SCREW - battery tray 5/16" x 5/8" pan head	2
15	218- 535	FITTING - 45° 1/2" NPT x 5/8" tube	1
16	195- 518	WASHER - spacer, valve 1/4"	6
17	C 21591	LEVER - PTO	1
18	A 37247	KNOB - lever, PTO	1
19	C 21592	SPACER - rectifier mtg. (446)	2
20	113- 4	BOLT - rectifier mtg. 1/4 x 1" (446)	2
	C 18719	DECAL - valve, "slow - fast"	1



J-17 HYDRAULIC PTO VALVE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18281	VALVE - control	1
2	C 11891	SEAL - U-cup	2
3	132- 5	PIN - cotter 1/16" x 1/2"	1
4	36627	PIN - handle	1
5	C 19422	BRACKET - handle	1
6	71- 410	SCREW - 1/4" x 5/8" NC fillister head	2
7	36628	LOCKWASHER - 1/4"	3
8	NSS	BODY AND SPOOL ASSEMBLY (Order C18281)	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	C 11887	CAP - detent	1
17	169- 108	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	D 39712	SHIM - .010" thick	UAR
21	T 40189	SPRING - relief	1
22	A 55894	SHIM - .020" thick	UAR
23	211- 11	BALL - relief 3/8"	1
24	C 18417	SEAT - relief	1
25	A 27891	"O" RING - relief seat	1
26	A 32747	KNOB - hand throttle	1
27	C 12127	BUSHING - nylon	1

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
	10923	61	17	A	70062	43	11	C	11893	83	12
	10927	61	12	A	70090	5	5	C	11895	83	9
	10934	61	3	A	70100	49	18	C	11901	83	13
	36627	83	4	A	70112	51	20	C	11906	39	5
	36628	83	7	A	70185	43	8	C	12081	43	3
	40035	11	20	A	70202	61	8	C	12093	55	2
	40035	13	20	A	70202	61B	8	C	12093	69	12
	40035	15	20	A	70221	61	7	C	12102	39	13
	40035	17	28	A	70221	61B	7	C	12110	43	5
	40035	19	28	A	72038	57	7	C	12111	43	6
	40035	21	28	A	72038	59	7	C	12127	83	27
A	7982	53	3	A	72039	57	5	C	12224	29	2
A	7982	53	4	A	72039	59	5	C	12370	43	7
A	10326	29	22	A	72040	57	6	C	12551	47	25
A	20965	61	1	A	72040	59	6	C	12552	47	26
A	25441	59	31	A	72041	59	23	C	12559	47	31
A	25447	57	20	A	72042	57	10	C	12560	47	32
A	25447	59	20	A	72042	59	10	C	12561	47	34
A	25461	59	4	A	72043	57	17	C	12713	47	2
A	25546	57	36	A	72043	59	17	C	12718	47	36
A	25546	59	36	A	72046	57	32	C	12723	47	10
A	27001	11	23	A	72046	59	32	C	12725	47	21
A	27001	13	23	A	72047	57	33	C	12965	47	38
A	27001	15	23	A	72047	59	33	C	12975	39	9
A	27251	61	17	A	72048	57	11	C	12975	39	10
A	27251	61B	17	A	72048	59	11	C	12975	41	20
A	27365	17	39	A	72073	25	1	C	13106	39	7
A	27365	19	39	A	72073	27	3	C	13106	39	8
A	27365	21	39	A	72077	27	8	C	13106	41	--
A	27891	83	25	A	72078	27	7	C	13106	43	--
A	30064	43	10	A	72079	27	9	C	13106	69	--
A	30095	49	34	A	72080	27	15	C	13196	47	16
A	30338	71	13	A	72083	27	10	C	13197	47	17
A	30881	39	10	A	72084	27	2	C	13200	53	12
A	30881	39	11	A	72092	27	5	C	13211	47	9
A	32747	83	26	A	72099	27	8	C	13241	47	5
A	34046	61	21	A	72100	23	2	C	13261	47	40
A	35690	51	16	A	72100	25	11	C	13266	47	8
A	37247	31	1	A	72103	27	2	C	13360	45	1
A	37247	55	1	A	72104	59	9	C	13385	47	6
A	37247	69	11	A	72108	23	13	C	13526	43	2
A	37247	81	18	A	72108	25	2	C	13605	39	5
A	39519	31	8	A	72108	27	13	C	13605	39	16
A	39888	61	11	B	50213	61	--	C	13716	39	6
A	40702	57	4	B	50223	61	5	C	13770	47	1
A	40702	59	40	B	50255	61	2	C	14060	63	1
A	40736	57	21	B	50273	61	6	C	14066	65	3
A	40736	57	22	B	50293	61	14	C	14168	47	23
A	40736	59	21	B	52118	71	12	C	14195	49	12
A	40736	59	22	B	52144	47	15	C	14200	41	6
A	40855	61	4	B	53393	23	13	C	14201	41	7
A	41927	57	13	C	10263	43	1	C	14222	47	39
A	41927	59	13	C	10314	43	2	C	14223	47	37
A	41959	57	27	C	10317	43	9	C	14240	31	1
A	42127	57	25	C	10657	25	14	C	14241	31	1
A	43182	61	--	C	10678	25	3	C	14245	49	14
A	43356	57	31	C	10836	63	3	C	14246	31	3
A	43494	57	2	C	10898	75	4	C	14295	33	10
A	43495	57	23	C	11529	25	18	C	14304	63	9
A	44433	57	29	C	11529	49	16	C	14305	63	8
A	44433	59	29	C	11545	25	19	C	14334	39	12
A	50096	47	18	C	11545	49	17	C	14344	57	34
A	55894	83	22	C	11886	83	15	C	14344	59	34
A	60273	53	1	C	11887	83	16	C	14345	25	7
A	61683	81	3	C	11891	83	2	C	14399	17	26
A	62079	25	15	C	11892	83	14	C	14399	19	26

NUMERICAL INDEX

85

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
C	14399	21	26	C	15410	37	9	C	17187	61	2
C	14457	75	2	C	15515	33	7	C	17187	61B	2
C	14459	75	5	C	15556	33	11	C	17188	73	3
C	14460	75	5	C	15557	33	8	C	17189	73	4
C	14506	29	4	C	15564	45	11	C	17216	37	19
C	14525	45	14	C	15389	79	10	C	17219	75	8
C	14534	37	12	C	15690	65	10	C	17224	69	28
C	14537	61	9	C	15691	65	11	C	17236	49	8
C	14537	61B	9	C	15692	65	12	C	17249	45	6
C	14539	65	4	C	15693	65	13	C	17249	69	6
C	14553	61	6	C	15696	65	16	C	17250	45	7
C	14553	61B	6	C	15697	65	17	C	17250	69	7
C	14565	61	3	C	15718	33	3	C	17268	69	-
C	14565	61B	3	C	15721	33	22	C	17268	73	13
C	14566	61	4	C	15726	49	6	C	17275	61	15
C	14566	61B	4	C	15726	51	17	C	17275	61B	15
C	14568	73	2	C	15768	73	7	C	17281	45	3
C	14568	75	14	C	16128	71	20	C	17298	49	6
C	14599	63	21	C	16129	37	8	C	17298	51	17
C	14619	49	37	C	16133	69	31	C	17433	53	8
C	14644	47	24	C	16163	69	10	C	17435	53	9
C	14655	49	35	C	16164	43	21	C	17438	53	17
C	14655	55	-	C	16170	35	2	C	17439	53	11
C	14690	25	23	C	16200	41	4	C	17440	53	14
C	14690	31	4	C	16239	35	23	C	17443	53	18
C	14692	73	9	C	16295	47	27	C	17444	53	19
C	14703	71	16	C	16339	47	22	C	17536	69	25
C	14709	71	17	C	16362	35	12	C	17546	63	34
C	14710	71	18	C	16363	25	17	C	17574	25	16
C	14712	71	-	C	16373	35	14	C	17612	55	4
C	14715	71	8	C	16374	35	15	C	17612	69	16
C	14717	71	15	C	16379	43	23	C	17636	77	4
C	14722	71	3	C	16384	39	17	C	17717	29	1
C	14724	71	4	C	16393	37	17	C	17718	29	2
C	14725	71	14	C	16404	37	2	C	17732	69	33
C	14728	37	22	C	16405	37	1	C	17734	69	29
C	14729	35	20	C	16429	37	7	C	17763	61	24
C	14730	35	20	C	16444	37	15	C	17763	61B	24
C	14827	55	4	C	16445	37	15	C	17859	77	1
C	14828	55	7	C	16446	37	16	C	17860	77	3
C	14829	55	8	C	16447	37	16	C	17863	77	2
C	14830	55	9	C	16448	29	3	C	17898	49	25
C	14831	55	10	C	16449	29	1	C	17921	63	2
C	14832	55	11	C	16516	55	1	C	18014	41	2
C	14833	55	12	C	16516	55	-	C	18016	41	1
C	14834	55	13	C	16581	77	1	C	18017	41	21
C	14836	55	15	C	16616	33	19	C	18092	55	15
C	14837	55	5	C	16651	37	8	C	18095	11	25
C	14838	55	16	C	16687	49	24	C	18095	13	25
C	14866	75	15	C	16692	41	18	C	18095	15	25
C	14867	75	1	C	16697	49	35	C	18097	11	24
C	14872	73	1	C	16697	55	-	C	18097	13	24
C	14906	17	44	C	16699	47	11	C	18097	15	24
C	14906	19	44	C	16700	47	13	C	18097	17	34
C	14906	21	44	C	16744	47	3	C	18097	19	34
C	14906	31	11	C	16786	33	13	C	18097	21	34
C	14953	17	38	C	16793	49	11	C	18097	23	6
C	14953	19	38	C	16794	49	10	C	18098	29	14
C	14954	21	38	C	16796	25	20	C	18099	29	30
C	14975	71	2	C	16852	61	8	C	18100	63	11
C	14976	71	3	C	16852	61B	8	C	18101	11	18
C	14991	71	9	C	17066	37	20	C	18102	13	18
C	15007	25	5	C	17067	45	13	C	18102	15	18
C	15036	51	20	C	17152	37	14	C	18103	17	12
C	15096	41	16	C	17161	77	2	C	18103	19	12
C	15335	49	1	C	17162	77	3	C	18103	29	27
C	15389	79	10	C	17186	61	10	C	18110	55	10

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
C	18115	61	20	C	19179	43	10	C	21495	49	28
C	18115	61B	20	C	19183	43	17	C	21495	53	--
C	18115	63	40	C	19186	43	16	C	21496	49	29
C	18147	43	22	C	19187	43	15	C	21496	53	--
C	18150	35	17	C	19204	33	12	C	21496	69	26
C	18153	35	11	C	19207	51	15	C	21504	53	--
C	18197	61	12	C	19212	55		C	21505	53	15
C	18197	61B	12	C	19213	5	2	C	21506	53	11
C	18251	69	3	C	19246	63	39	C	21506	53	22
C	18281	79	1	C	19250	43	1	C	21507	53	6
C	18281	83	1	C	19251	43	11	C	21507	53	7
C	18318	69	30	C	19253	49	38	C	21508	53	8
C	18321	49	32	C	19253	63	36	C	21508	53	24
C	18382	55		C	19400	79	9	C	21509	53	7
C	18389	61B	10	C	19401	79	8	C	21509	53	23
C	18417	83	24	C	19402	81	8	C	21510	53	9
C	18580	49	15	C	19403	81	10	C	21510	53	25
C	18711	41	12	C	19404	81	9	C	21511	53	--
C	18719	81	--	C	19405	81	11	C	21518	55	5
C	18720	81	2	C	19417	37	6	C	21518	69	15
C	18722	81	1	C	19418	79	5	C	21526	39	22
C	18733	35	8	C	19422	83	5	C	21526	39	22
C	18742	55	6	C	19423	83	18	C	21527	39	23
C	18742	69	18	C	19424	79	11	C	21527	39	23
C	18777	39	2	C	19440	5	8	C	21528	39	24
C	18779	39	3	C	19468	73	6	C	21528	39	24
C	18782	39	3	C	19469	73	8	C	21529	39	21
C	18784	39	2	C	19472	33		C	21530	39	21
C	18786	39	18	C	19474	81	12	C	21564	33	18
C	18786	39	18	C	19740	71	1	C	21591	81	17
C	18788	63	27	C	19743	45	7	C	21592	81	19
C	18793	29	3	C	19743	51	1	C	21595	61	23
C	18797	49	21	C	19767	31	15	C	21595	61B	23
C	18808	69	1	C	19803	33		C	21596	33	11
C	18809	45	1	C	19867	31	12	C	21679	63	42
C	18810	69	24	C	20023	35	7	C	21814	17	1
C	18811	45	4	C	20035	31	3	C	21814	19	1
C	18812	39	1	C	20036	31	7	C	21814	21	12
C	18813	39	1	C	20037	31	2	C	21815	21	31
C	18814	17	43	C	20041	31	14	C	21816	25	1
C	18814	19	43	C	20053	31	20	C	21816	27	
C	18814	21	43	C	20056	35	5	C	21857	43	24
C	18850	53	13	C	20058	49	6	C	21872	43	19
C	18851	53	--	C	20058	51	17	C	21948	61B	1
C	18871	43	13	C	20059	49	6	C	21950	61B	26
C	18890	35	17	C	20059	51	17	C	21988	61	26
C	18907	33	2	C	20071	55	3	C	21988	61B	27
C	18908	33	15	C	20082	35	6	C	21989	61	25
C	18940	33	17	C	20093	31	5	C	21989	61B	25
C	18989	25	1	C	20193	29	36	C	21993	61	--
C	18992	41	5	C	20194	29	37	C	21993	61B	--
C	18999	63	30	C	20455	51	15	C	22023	35	7
C	19002	49	23	C	20456	51	2	C	22034	17	31
C	19021	25	15	C	20457	51	3	C	22034	19	31
C	19025	55	8	C	20460	51	4	C	22278	39	25
C	19025	69	20	C	20461	51	5	C	22568	39	19
C	19037	55		C	20462	51	6	C	22571	61	11
C	19038	55		C	20463	51	7	C	22571	61B	11
C	19040	55		C	20464	51	12	C	22571	63	--
C	19041	55		C	20757	49	7	C	22573	63	10
C	19053	5	1	C	20757	51	1	C	22637	47	14
C	19055	61	21	C	20761	51	2	C	22638	47	12
C	19055	61B	21	C	20762	51	3	C	22671	33	1
C	19063	43	7	C	20764	51	4	C	22714	35	1
C	19064	43	8	C	20765	51	5				
C	19104	69	32	C	20767	51					
C	19120	61	1								

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
C	14399	21	26	C	15410	37	9	C	17187	61	2
C	14457	75	2	C	15515	33	7	C	17187	61B	2
C	14459	75	5	C	15556	33	11	C	17188	73	3
C	14460	75	5	C	15557	33	8	C	17189	73	4
C	14506	29	4	C	15564	45	11	C	17216	37	19
C	14525	45	14	C	15389	79	10	C	17219	75	8
C	14534	37	12	C	15690	65	10	C	17224	69	28
C	14537	61	9	C	15691	65	11	C	17236	49	8
C	14537	61B	9	C	15692	65	12	C	17249	45	6
C	14539	65	4	C	15693	65	13	C	17249	69	6
C	14553	61	6	C	15696	65	16	C	17250	45	7
C	14553	61B	6	C	15697	65	17	C	17250	69	7
C	14565	61	3	C	15718	33	3	C	17268	69	-
C	14565	61B	3	C	15721	33	22	C	17268	73	13
C	14566	61	4	C	15726	49	6	C	17275	61	15
C	14566	61B	4	C	15726	51	17	C	17275	61B	15
C	14568	73	2	C	15768	73	7	C	17281	45	3
C	14568	75	14	C	16128	71	20	C	17298	49	6
C	14599	63	21	C	16129	37	8	C	17298	51	17
C	14619	49	37	C	16133	69	31	C	17433	53	8
C	14644	47	24	C	16163	69	10	C	17435	53	9
C	14655	49	35	C	16164	43	21	C	17438	53	17
C	14655	55	-	C	16170	35	2	C	17439	53	11
C	14690	25	23	C	16200	41	4	C	17440	53	14
C	14690	31	4	C	16239	35	23	C	17443	53	18
C	14692	73	9	C	16295	47	27	C	17444	53	19
C	14703	71	16	C	16339	47	22	C	17536	69	25
C	14709	71	17	C	16362	35	12	C	17546	63	34
C	14710	71	18	C	16363	25	17	C	17574	25	16
C	14712	71	-	C	16373	35	14	C	17612	55	4
C	14715	71	8	C	16374	35	15	C	17612	69	16
C	14717	71	15	C	16379	43	23	C	17636	77	4
C	14722	71	3	C	16384	39	17	C	17717	29	1
C	14724	71	4	C	16393	37	17	C	17718	29	2
C	14725	71	14	C	16404	37	2	C	17732	69	33
C	14728	37	22	C	16406	37	1	C	17734	69	29
C	14729	35	20	C	16429	37	7	C	17763	61	24
C	14730	35	20	C	16444	37	15	C	17763	61B	24
C	14827	55	4	C	16445	37	15	C	17859	77	1
C	14828	55	7	C	16446	37	16	C	17860	77	3
C	14829	55	8	C	16447	37	16	C	17863	77	2
C	14830	55	9	C	16448	29	3	C	17898	49	25
C	14831	55	10	C	16449	29	1	C	17921	63	2
C	14832	55	11	C	16516	55	1	C	18014	41	2
C	14833	55	12	C	16516	55	-	C	18016	41	1
C	14834	55	13	C	16581	77	1	C	18017	41	21
C	14836	55	15	C	16616	33	19	C	18092	55	15
C	14837	55	5	C	16651	37	8	C	18095	11	25
C	14838	55	16	C	16687	49	24	C	18095	13	25
C	14866	75	15	C	16692	41	18	C	18095	15	25
C	14867	75	1	C	16697	49	35	C	18097	11	24
C	14872	73	1	C	16697	55	-	C	18097	13	24
C	14906	17	44	C	16699	47	11	C	18097	15	24
C	14906	19	44	C	16700	47	13	C	18097	17	34
C	14906	21	44	C	16744	47	3	C	18097	19	34
C	14906	31	11	C	16786	33	13	C	18097	21	34
C	14953	17	38	C	16793	49	11	C	18097	23	6
C	14953	19	38	C	16794	49	10	C	18098	29	14
C	14954	21	38	C	16796	25	20	C	18099	29	30
C	14975	71	2	C	16852	61	8	C	18100	63	11
C	14976	71	3	C	16852	61B	8	C	18101	11	18
C	14991	71	9	C	17066	37	20	C	18102	13	18
C	15007	25	5	C	17067	45	13	C	18102	15	18
C	15036	51	20	C	17152	37	14	C	18103	17	12
C	15096	41	16	C	17161	77	2	C	18103	19	12
C	15335	49	1	C	17162	77	3	C	18103	29	27
C	15389	79	10	C	17186	61	10	C	18110	55	10

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
C	22721	35	1	KO	235011	7	18	KO	235818	19	35
C	22979	35	--	KO	235011	7	41	KO	235818	21	35
C	22980	35	--	KO	235011	9	18	KO	235826	7	14
D	22988	29	4	KO	235025	17	16	KO	235826	7	37
D	31945	47	4	KO	235025	19	16	KO	235868	13	17
D	39712	83	20	KO	235025	21	16	KO	235868	15	17
D	58185	51	6	KO	235025	23	3	KO	235889	13	2
D	58186	51	7	KO	235026	17	17	KO	235890	13	16
D	58187	51	8	KO	235026	19	17	KO	235891	13	16
D	58188	51	11	KO	235026	21	17	KO	235892	13	16
D	58189	51	14	KO	235047	7	9	KO	235901	25	11
D	58196	51	9	KO	235047	9	9	KO	236387	27	3
D	59650	51	12	KO	235048	7	6	KO	236611	11	13
D	59699	55	8	KO	235048	9	6	KO	236611	13	13
D	63367	55		KO	235048	23	11	KO	236611	15	13
F	59014	33	14	KO	235053	7	27	KO	236675	17	4
KO	200380	27	1	KO	235053	7	50	KO	236763	15	2
KO	200380	27	6	KO	235053	9	28	KO	236764	15	16
KO	200383	27	4	KO	235054	25	14	KO	236765	15	16
KO	220174	23	7	KO	235057	23	14	KO	236766	15	16
KO	220174	63	6	KO	235070	17	29	KO	236886	21	1
KO	220297	63	2	KO	235070	19	29	KO	237064	21	6
KO	230011	7	20	KO	235070	21	29	KO	237277	17	49
KO	230011	7	43	KO	235070	23	5	KO	237277	19	49
KO	230020	9	20	KO	235084	29	19	KO	237277	21	49
KO	230170	7	16	KO	235085	29	18	KO	237421	5	9
KO	230170	7	39	KO	235086	29	17	KO	237423	5	10
KO	230170	9	16	KO	235117	7	8	KO	237489	27	3
KO	230170	17	9	KO	235117	9	8	KO	237520	25	4
KO	230170	19	9	KO	235118	7	7	KO	237658	17	5
KO	230170	21	9	KO	235118	9	7	KO	237658	19	5
KO	230265	7	29	KO	235125-S	17	11	KO	237658	21	5
KO	230265	7	52	KO	235125-S	19	11	KO	237658	23	15
KO	230265	9	29	KO	235125-S	29	29	KO	237670	19	4
KO	230265	17	9A	KO	235168	9	19	KO	237670	21	4
KO	230265	19	9A	KO	235207	25	6	KO	237672	9	14
KO	230265	21	11	KO	235277	29	23	KO	237677	25	4
KO	230675	27	1	KO	235278	29	24	KO	237727	23	1
KO	230722	61	19	KO	235287	11	2	KO	237808	17	23
KO	230722	61B	19	KO	235288	11	16	KO	237808	19	23
KO	231032	7	5	KO	235289	11	16	KO	237808	21	23
KO	231032	9	5	KO	235290	11	16	KO	237895	5	1
KO	231032	23	16	KO	235353	17	20	KO	238057	61	18
KO	231052	29	16	KO	235353	19	20	KO	238057	61B	18
KO	231281	61	13	KO	235353	21	20	KO	240013	7	21
KO	231281	61B	13	KO	235353	23	4	KO	240013	7	44
KO	231355	29	31	KO	235476	29	25	KO	240013	9	21
KO	232535	61	14	KO	235496	29	12	KO	270158	17	2
KO	232535	61B	14	KO	235572	11	8	KO	270158	19	2
KO	232535	63	5	KO	235573	11	17	KO	270158	21	2
KO	232770	7	28	KO	235582	9	15	KO	270889	17	3
KO	232770	7	51	KO	235603	29	33	KO	270889	19	3
KO	232770	9	26	KO	235631	7	10	KO	270889	21	3
KO	235003	11	11	KO	235631	9	10	KO	275066	7	26
KO	235003	13	11	KO	235652	25	5	KO	275066	7	49
KO	235003	15	11	KO	235748	17	42	KO	275066	9	27
KO	235004	11	7	KO	235748	19	42	KO	275067	7	26
KO	235007-S	7	17	KO	235748	21	42	KO	275067	7	49
KO	235007-S	7	40	KO	235757	17	29	KO	275067	9	27
KO	235007-S	9	17	KO	235757	19	29	KO	275143	7	4
KO	235007-S	17	10	KO	235757	21	29	KO	275143	9	4
KO	235007-S	19	10	KO	235757	23	5	KO	275144	7	11
KO	235007-S	21	10	KO	235803	13	8	KO	275144	9	11
KO	235008	7	15	KO	235803	15	8	KO	275144	23	12
KO	235008	7	38	KO	235811	13	7	KO	275182	63	12
KO	235010	7	19	KO	235811	15	7	KO	275220	7	3
KO	235010	7	42	KO	235818	17	35	KO	275220	9	3

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
KO 275231	27	5	R 16170	57	30	113- 102	79	12
KO 275341	5	3	R 16170	59	30	113- 103	25	7
KO 275341	23	10	R 16287	11	19	113- 103	63	11
KO 275341	25	11	R 16287	13	19	113- 103	79	15
KO 275690	29	15	R 16287	15	19	113- 113	41	11
KOA 220474	63	10	R 16287	17	27	113- 118	25	16
KOA 231533	63	1	R 16287	19	27	113- 118	31	5
KOA 235139	11	10	R 16287	21	27	113- 118	71	10
KOA 235256-S	29	26	R 16287	23	2	113- 122	37	11
KOA 235567	11	15	R 17820	47	33	113- 206	17	14
KOA 235569	11	15	T 40189	83	21	113- 206	19	14
KOA 235571	11	15	W 5063-S	11	21	113- 206	21	14
KOA 235611	11	6	W 5063-S	13	21	113- 206	41	13
KOA 235616	11	15	W 5063-S	15	21	113- 206	79	6
KOA 235827	13	6	W 5063-S	49	5	113- 207	5	3
KOA 235845	25	8				113- 207	17	33
KOA 235864	13	15				113- 207	19	33
KOA 235865	13	15				113- 207	21	33
KOA 235866	13	15				113- 207	31	19
KOA 235867	13	15				113- 207	33	20
KOA 235871	17	8				113- 207	49	2
KOA 236205	25	12				113- 207	69	21
KOA 236303	17	7				113- 207	77	6
KOA 236919	29	34				113- 209	61	18
KOA 237031	29	28				113- 219	29	6
KOA 237033-S	21	8				113- 417	71	5
KOA 237127-S	19	8				113- 417	75	6
KOA 237344	13	10				113- 417	75	9
KOA 237344	15	10				113- 417	77	4
KOA 237401	15	6				113- 421	75	13
KOA 237402	15	15				113- 424	35	22
KOA 237403	15	15				113- 424	37	4
KOA 237404	15	15				113- 424	45	3
KOA 237405	15	15				113- 425	73	3
KOA 237559	29	32				113- 427	37	3
KOA 237653	29	8				113- 441	37	3
KOB 235949	13	22				113- 443	77	5
KOB 236293	19	7				114- 200	49	3
KOB 236303	17	7				121- 106	35	3
KOB 236364	11	22				121- 106	37	13
KOB 237034	15	22				126- 16	41	17
KOB 237182	21	7				126- 111	57	24
KOD 235327	7	22				126- 111	59	24
KOD 235327	7	45				126- 128	47	41
KOD 235327	9	22				129- 17	29	7
KOE 235646	7	25				129- 18	57	14
KOE 235646	7	48				129- 18	59	14
KOE 235646	9	25				129- 27	63	22
M 20007	61	16				129- 37	29	20
M 20007	61B	16				129- 37	63	41
O 2815-N	33	16				129- 77	63	37
O 10323-AB	51	16				129- 101	63	17
R 15077	57	19				129- 101	63	33
R 15077	59	19				129- 102	5	10
R 15087	59	3				129- 102	25	19
R 15090	57	8				129- 102	35	4
R 15090	59	8				129- 102	63	14
R 15106	57	1				129- 102	79	13
R 15106	59	1				129- 103	5	6
R 16147	57	12				129- 103	17	47
R 16147	59	12				129- 103	19	47
R 16148	57	16				129- 103	21	47
R 16148	59	16				129- 103	61	20
R 16161	57	9				129- 103	77	7
R 16161	59	9				129- 105	61	15
						129- 105	67	4

HARDWARE CODE NUMBERS

13- 424	51	13
13- 514	35	18
13- 612	63	28
13- 614	45	8
13- 614	69	8
15- 420	29	9
22- 58	63	25
25- 104	7	1
25- 104	9	1
25- 104	29	11
25- 108	77	6
28- 662	55	16
41- 18	17	13
41- 18	19	13
41- 18	21	13
61- 616	17	25
61- 616	19	25
61- 616	21	25
71- 410	25	9
71- 410	83	6
74- 610	59	25
75- 48	83	11
83- 55	51	21
92- 4	7	2
92- 4	9	2
92- 6	11	12
92- 6	13	12
92- 6	15	12
92- 8	67	4
95- 4	83	10
111- 3	29	5
111- 108	63	16
111- 131	63	31
111- 202	63	15
111- 256	5	7
111- 317	77	5
111- 530	67	2
111- 531	67	3
111- 532	67	2
113- 1	47	20
113- 2	25	12
113- 4	81	20
113- 6	17	19
113- 6	19	19
113- 6	21	19
113- 6	25	3
113- 12	81	4
113- 102	63	18

NUMERICAL INDEX

89

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
129-	105	67	5	169-	95	29	35	192-	21	79	7
129-	105	75	10	169-	108	83	17	192-	23	35	21
129-	122	55	7	169-	114	53	20	192-	23	37	5
129-	122	63	20	169-	131	63	24	192-	23	39	14
129-	122	69	19	171-	247	49	30	192-	23	45	2
129-	125	39	15	173-	73	61	7	192-	23	61	16
129-	143	17	46	173-	210	63	3	192-	23	67	3
129-	143	19	46	173-	215	25	21	192-	23	75	7
129-	143	21	46	173-	215	49	19	192-	23	77	7
129-	325	39	16	173-	221	21	21	192-	26	59	35
129-	325	39	17	173-	224	63	8	192-	116	57	35
129-	409	5	2	173-	237	59	27	193-	4	61	8
129-	504	25	22	175-	436	25	10	193-	5	63	9
129-	504	49	20	177-	94	5	7	193-	26	21	22
129-	531	53	10	182-	515	81	14	193-	29	63	44
131-	164	43	20	182-	523	63	35	193-	56	29	8
131-	176	71	11	187-	408	63	7	193-	57	63	32
131-	178	31	16	187-	485	63	4	193-	60	25	10
131-	178	37	21	187-	1036	29	38	193-	70	63	19
131-	178	45	9	187-	1046	39	11	193-	76	33	5
131-	178	69	9	187-	1046	39	12	195-	104	31	17
131-	178	69	22	187-	1047	63	6	195-	104	43	6
131-	179	43	5	187-	1251	31	2	195-	104	69	23
131-	309	11	26	187-	1844	63	26	195-	126	31	18
131-	309	13	26	192-	17	57	15	195-	512	5	8
131-	309	15	26	192-	17	59	15	195-	513	63	38
131-	309	17	37	192-	18	29	6	195-	515	25	8
131-	309	19	37	192-	18	29	21	195-	515	29	10
131-	309	21	37	192-	18	59	28	195-	518	81	16
131-	351	49	31	192-	18	63	4	195-	520	63	13
131-	366	47	35	192-	18	63	23	195-	521	25	18
131-	629	63	5	192-	19	17	18	195-	521	45	12
131-	1112	41	8	192-	19	19	18	195-	521	55	9
131-	1113	41	3	192-	19	21	18	195-	521	63	43
131-	1115	81	5	192-	19	25	2	195-	521	69	17
131-	1129	43	4	192-	19	25	9	195-	521	79	16
131-	1318	35	9	192-	19	25	13	195-	524	37	18
132-	5	83	3	192-	19	29	13	195-	525	5	4
132-	46	35	13	192-	19	47	19	195-	525	77	9
132-	48	31	10	192-	20	5	9	195-	533	69	14
132-	91	31	9	192-	20	25	6	195-	533	77	8
132-	91	71	6	192-	20	25	17	195-	541	71	7
132-	306	75	12	192-	20	35	19	195-	541	75	3
132-	310	43	5	192-	20	41	10	195-	545	17	36
132-	310	69	4	192-	20	57	3	195-	545	19	36
132-	310	71	4	192-	20	63	12	195-	545	21	36
132-	311	39	8	192-	20	79	17	195-	545	75	11
132-	311	39	9	192-	21	5	5	195-	2021	37	10
132-	320	55	10	192-	21	17	15	195-	2021	41	9
132-	320	69	13	192-	21	17	24	195-	2069	41	15
132-	321	43	9	192-	21	17	32	205-	27	17	30
132-	361	69	5	192-	21	17	48	205-	27	19	30
138-	59	71	19	192-	21	19	15	211-	7	53	16
138-	96	31	6	192-	21	19	24	211-	9	53	5
138-	99	39	4	192-	21	19	32	211-	9	53	6
138-	309	71	5	192-	21	19	48	211-	11	83	23
138-	319	35	16	192-	21	21	15	213-	4	43	14
138-	319	43	18	192-	21	21	24	214-	6	81	13
138-	319	47	42	192-	21	21	32	214-	9	49	13
138-	323	55	11	192-	21	21	48	214-	17	49	39
138-	2054	45	10	192-	21	29	7	214-	251	25	4
141-	4	43	12	192-	21	33	21	218-	445	81	7
151-	210	29	5	192-	21	41	14	218-	457	79	2
164-	40	33	4	192-	21	49	4	218-	485	81	6
164-	42	45	5	192-	21	61	19	218-	494	79	3
164-	50	29	9	192-	21	63	29	218-	535	81	15
166-	86	49	36	192-	21	77	8	218-	927	79	4

PART NO.	PAGE NO.	REF. NO.	
218-	5006	49	22
218-	5007	49	9
218-	5007	49	27
218-	5007	49	33
218-	5056	69	27
218-	5107	49	26
218-	5232	79	14
218-	5291	73	5
219-	17	39	20
219-	403	43	4
219-	404	39	6
219-	404	39	7
219-	404	41	19
219-	404	45	2
219-	404	69	2
219-	405	71	2
221-	4	47	7
221-	849	51	10
221-	841	53	10
221-	841	53	21
221-	842	83	19
221-	1134	73	1
221-	1375	73	2
221-	1412	17	45
221-	1412	19	45
221-	1412	21	45
223-	20	61	22
223-	20	61B	22
321-	1423	65	1
321-	1786	65	8
321-	1788	65	5
321-	2110	65	7
321-	2468	65	14
321-	2469	65	15
321-	2624	65	9
321-	2625	65	9
321-	2658	65	6
353-	406	35	10
353-	442	31	13
353-	462	31	4

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