



COMPACT TRACTORS

220-S/N 9734870 & After

222-S/N 9736998 & After

224-S/N 9738335 & After

444-S/N 9739739 & After

Parts Catalog A1375

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**PARTS
CATALOG
REVISION**

Parts Catalog No. A1375
For Model 220 - 222 - 224 - 444
Compact Tractors

Revision No. 2

Remove and insert
the following revisions
TO PAGES:

5 - 6
29 - 30
31 - 32
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This revision has been printed in loose leaf style to allow you to keep your Catalogs current and up-to-date. Insert these pages promptly in their proper places. *Remove* and *destroy* the pages they replace. File this announcement in the beginning of the catalog as a record for future reference.

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COMPACT TRACTORS
220-2IN 9734870 & After
222-2IN 9738998 & After
224-2IN 9738935 & After
244-2IN 9739730 & After
Parts Catalog A1375

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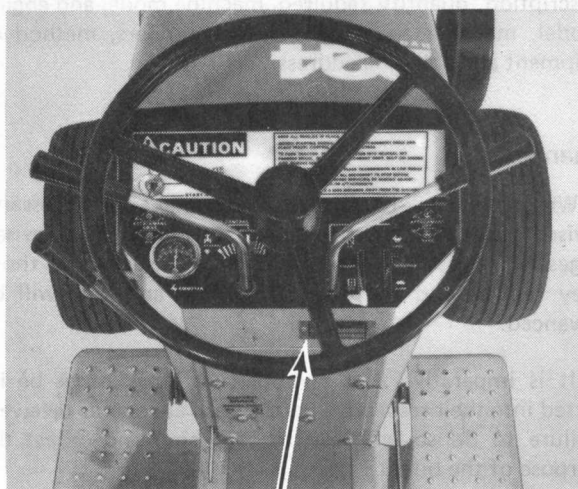
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Actual product may vary.



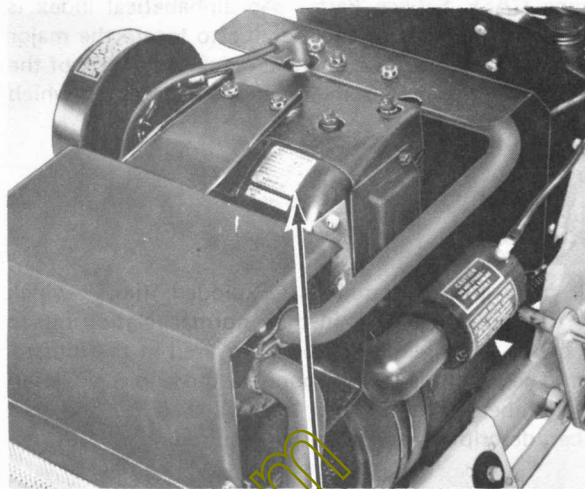
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CASE 220, 222, 224 AND 444 COMPACT TRACTORS



TRACTOR MODEL AND
SERIAL NUMBER



ENGINE MODEL, SERIAL AND
SPECIFICATION NUMBER

TRACTOR MODEL DESIGNATIONS	ENGINE MODEL DESIGNATIONS
220 TRACTOR	K-241-AS C24784 SPEC. PF46746D
222 TRACTOR	K-301-AS C24785 SPEC. PF47612D
224 TRACTOR	K-321-AS C24786 SPEC. PF60324D
444 TRACTOR	K-321-AS C24786 SPEC. PF60324D

SERIAL NUMBERS

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

GENERAL INFORMATION

Indexes

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

Illustrations

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

Orders

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

Changes

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

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

Indented Description

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

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

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

Terms "Right Hand" and "Left Hand"

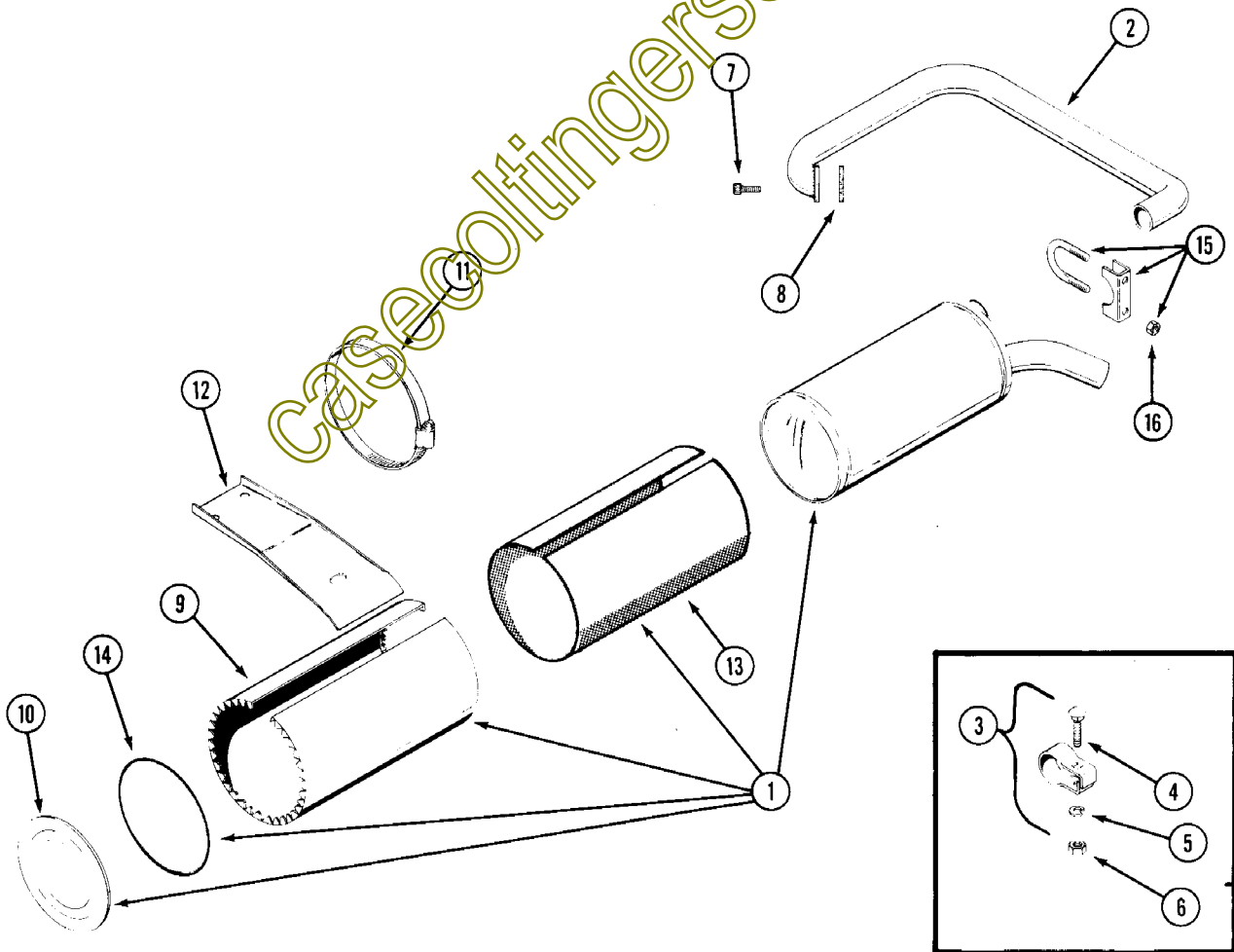
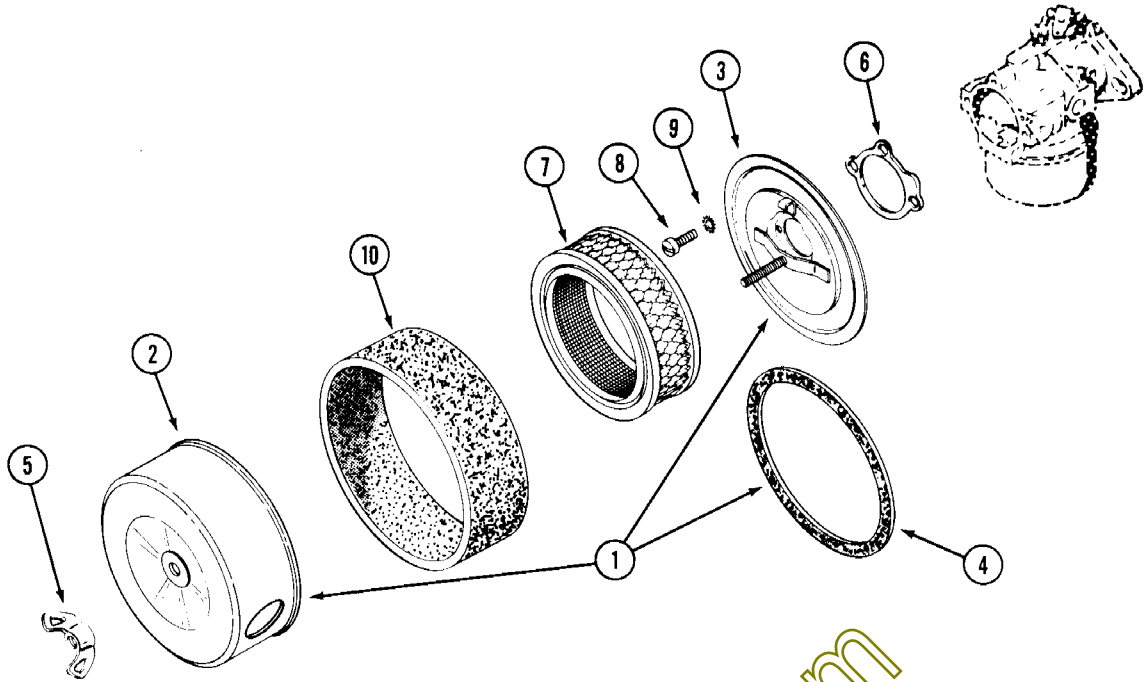
"Right Hand" and "Left Hand" sides of this machine are determined by standing at the rear of the unit and facing in the direction of forward travel.

ENGINE SECTION

	220 222	224 444		220 222	224 444
	Page			Page	
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Breather, Crankcase	7	9	Fuel Strainer	25	25
Camshaft	7	9	Fuel System	25	25
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			Valves	7	9

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Axle, Front	39	L7 Holding Valve	83B
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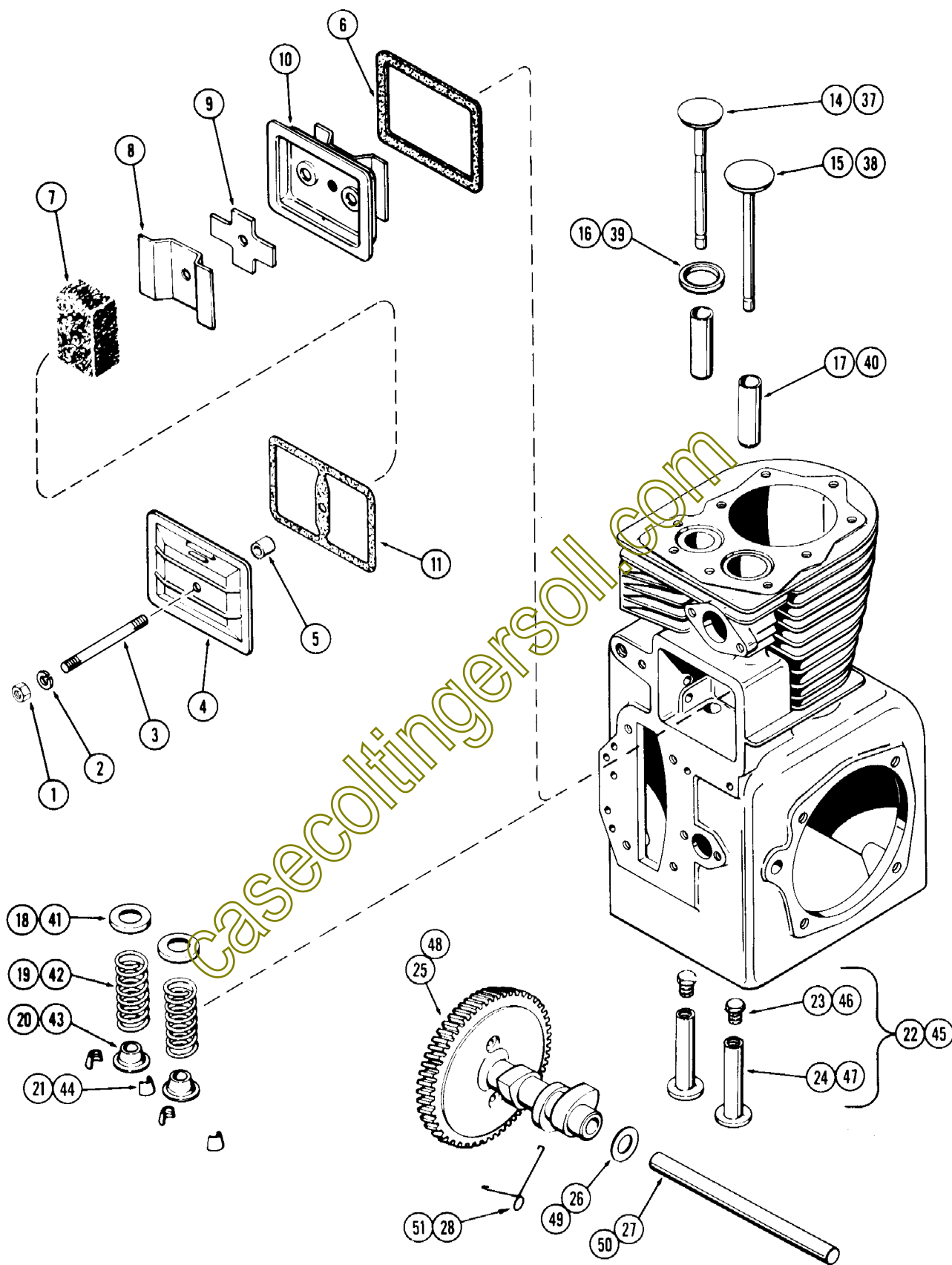


AIR CLEANER

REF.	PART NO.	DESCRIPTION	REQ'D
1	KO 237895	AIR CLEANER ASSEMBLY	1
2	NSS	COVER - air cleaner (order KO237895)	1
3	NSS	BASE - air cleaner (order KO237895)	1
4	KO 237423	GASKET - cover, air cleaner	1
5	129- 409	NUT - wing 1/4" N.C.	1
6	KO 275341	GASKET - air horn.	1
7	A 70090	ELEMENT - air cleaner	1
8	177- 94	SCREW - fillister head 10-32 x 5/16"	3
9	193- 6	LOCKWASHER - ext. tooth	3
10	KO 237421	PRE-CLEANER.	1

EXHAUST SYSTEM

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



220 AND 222 CRANKCASE BREATHER

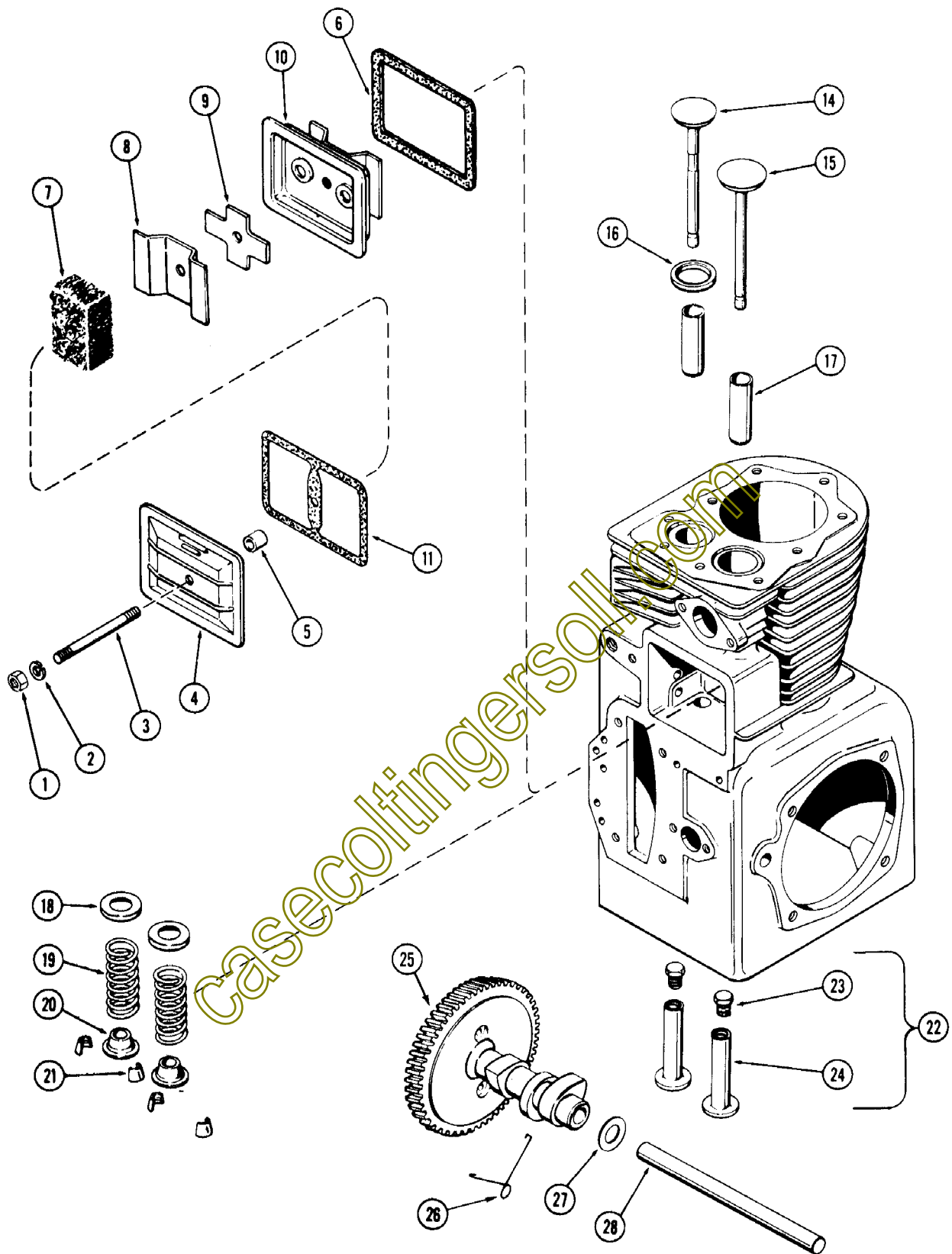
REF.	PART NO.	DESCRIPTION	REQ'D
1	129- 409	NUT - 1/4" NC hex	1
2	92- 4	LOCKWASHER - 1/4"	1
3	KO 275220	STUD - valve cover	1
4	KO 275143	COVER - valve	1
5	KO 231032	SEAL - breather	1
6	KO 235048	GASKET - breather plate	1
7	KO 235118	FILTER - breather	1
8	KO 235117	BAFFLE - breather	1
9	KO 235047	REED - 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	C 24884	KIT - valve retainer (includes both halves)	2
22	KOD 235327	LIFTER ASSEMBLY	2
23	NSS	SCREW - tappet adjusting	1
24	NSS	LIFTER - valve	1
25	C 25043	CAMSHAFT ASSEMBLY	1
26	KO 275066	SPACER - camshaft, .005"	UAR
26	KO 275067	SPACER - camshaft, .010"	UAR
27	KO 235053	PIN - camshaft	1
28	V 34346	SPRING - actuating	1

222 CAMSHAFT AND VALVES

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

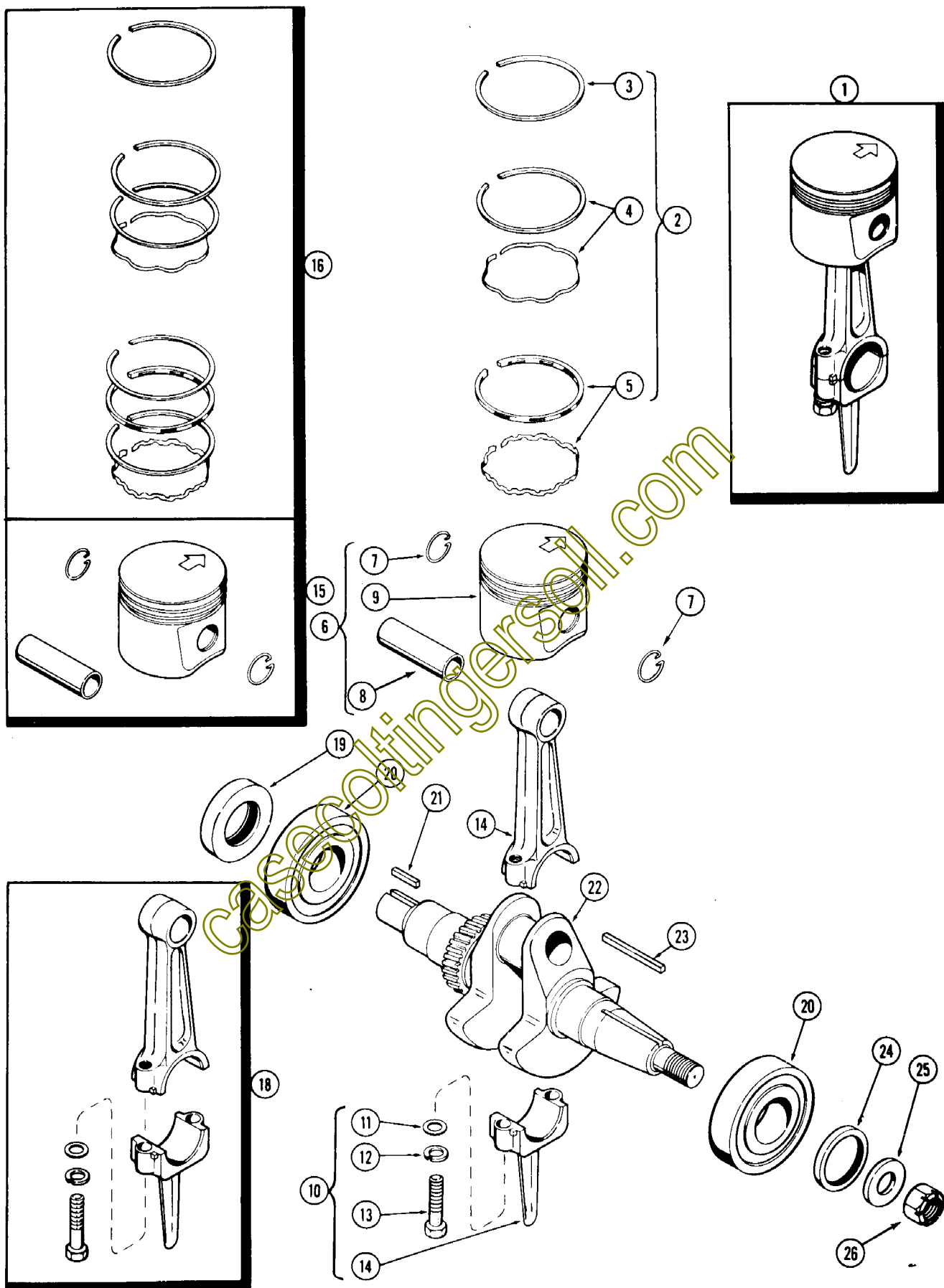


224 AND 444 CRANKCASE BREATHER

REF.	PART NO.	DESCRIPTION	REQ'D
1	129- 409	NUT - 1/4" NC hex	1
2	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

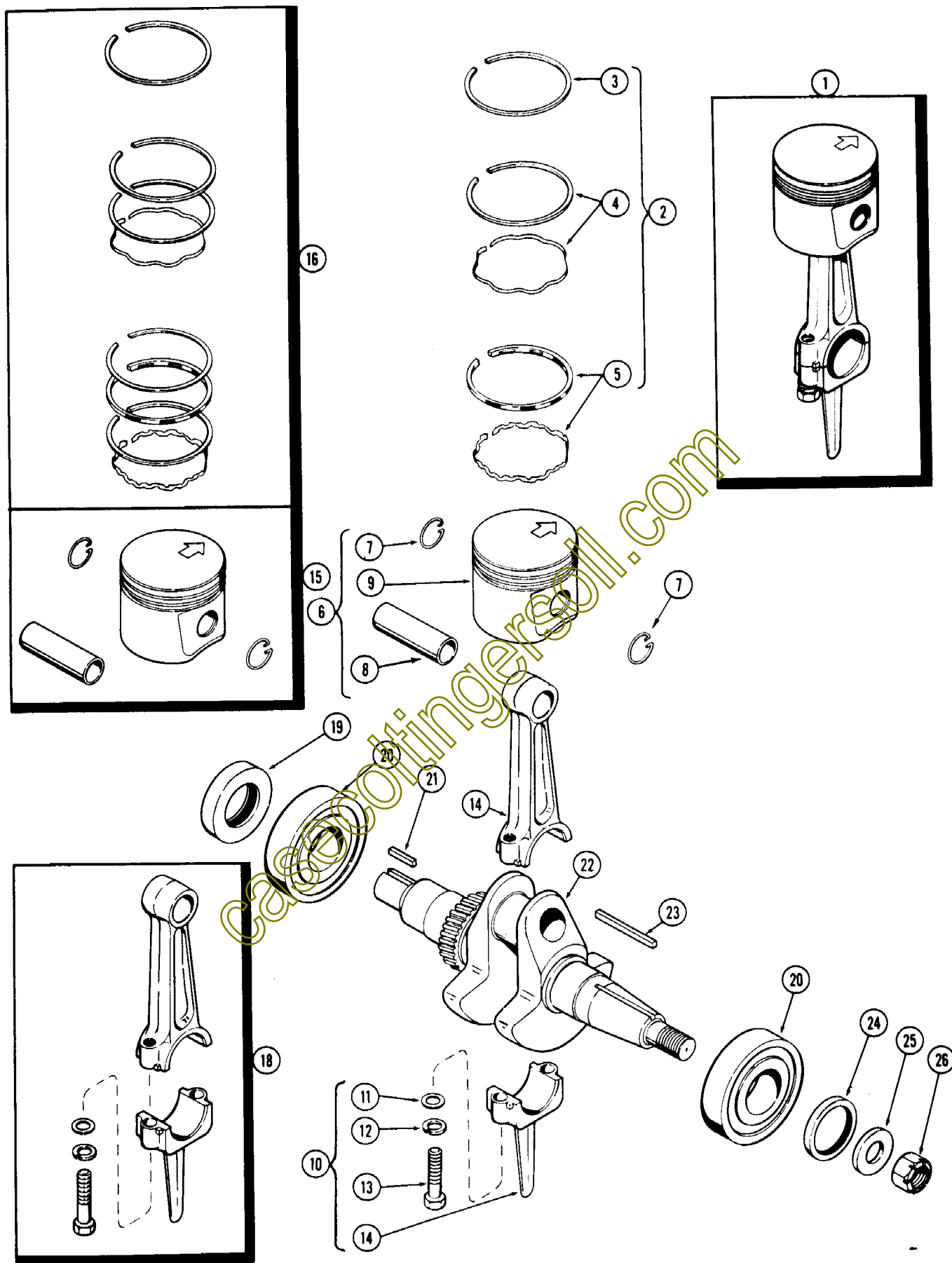
224 AND 444 CAMSHAFT AND VALVES

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	C 24884	KIT - valve retainer (includes both halves)	2
22	KOD 235327	LIFTER ASSEMBLY	2
23	NSS	SCREW - tappet adjusting	1
24	NSS	LIFTER - valve	1
25	C 25043	CAMSHAFT ASSEMBLY	1
26	V 34346	SPRING - actuating	1
27	KO 275066	SPACER - camshaft, .005"	UAR
27	KO 275067	SPACER - camshaft, .010"	UAR
28	KO 235053	PIN - camshaft.	1



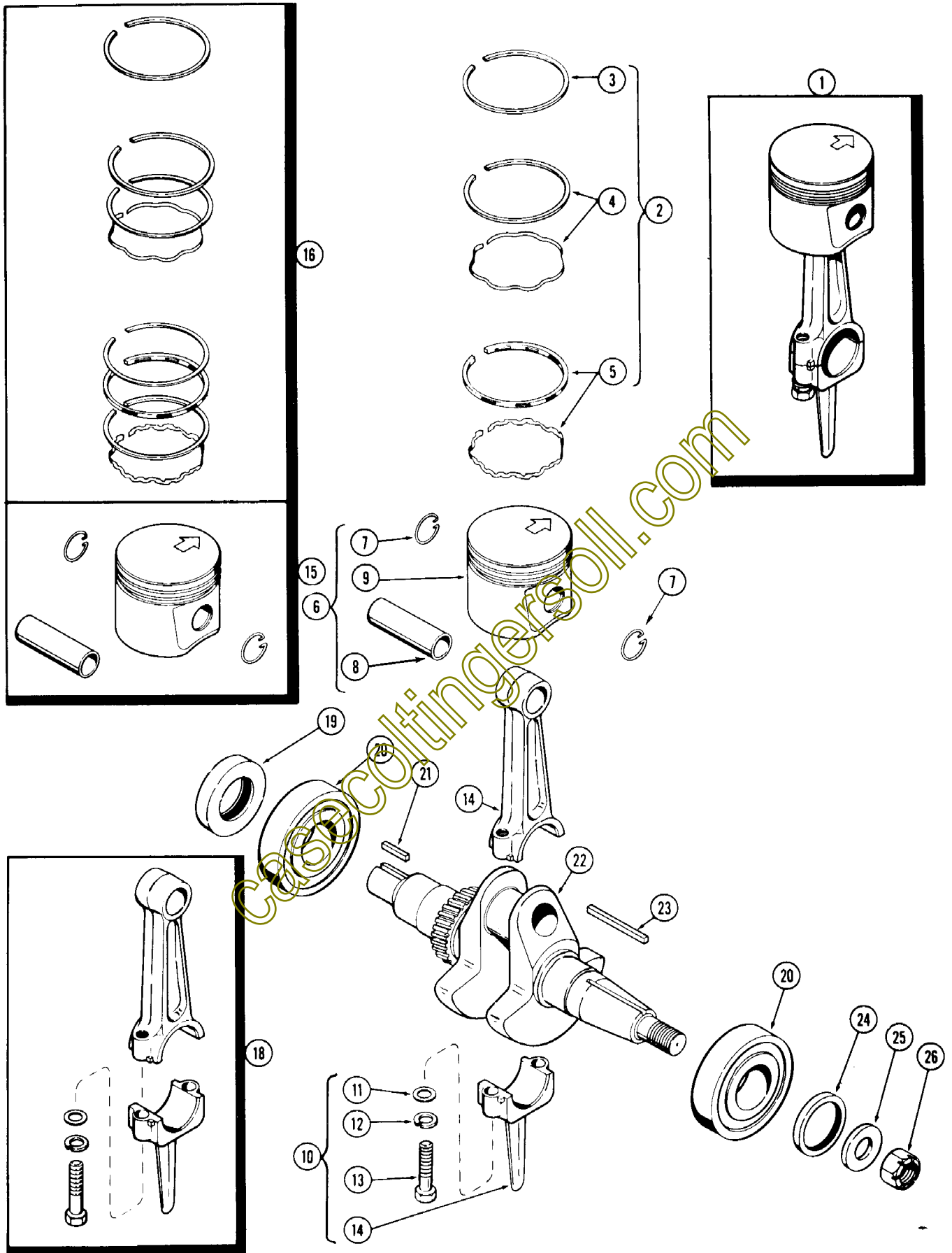
220 CRANKSHAFT, PISTON – CONNECTING ROD

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PISTON AND ROD ASSEMBLY (Std. size)	1
2	KO 235287	RING SET - piston (For oversize, see item 16)	1
3	NSS	RING - top compression	1
4	NSS	RING - 2nd compression (Includes expander)	1
5	NSS	RING - oil (Includes expander)	1
6	KOA 235611	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235004	RETAINER - piston pin	2
8	NSS	PIN - piston.	1
9	NSS	PISTON	1
10	KOA 235139	CONNECTING ROD ASSEMBLY (For undersize, see item 18).	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER.	2
13	NSS	SCREW - cap connecting rod	2
14	NSS	ROD - connecting.	1
15	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 std. ring set)	1
16	KO 235288	RING SET - piston .010" oversize.	1
16	KO 235289	RING SET - piston .020" oversize.	1
16	KO 235290	RING SET - piston .030" oversize.	1
18	C 18101	CONNECTING ROD ASSEMBLY .010" undersize.	1
19	R 16287	OIL SEAL - crankshaft rear	1
20	40035	BEARING - crankshaft ball	2
21	W 5063-S	KEY - 1/4" Sq. x 3/4" (Pump Coupling).	1
22	KOB 236364	CRANKSHAFT	1
23	H 61168	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel).	1
24	C 18097	OIL SEAL - crankshaft front	1
25	195- 541	WASHER - 5/8"	1
26	131- 580	NUT - special Marsden 5/8" NF.	1



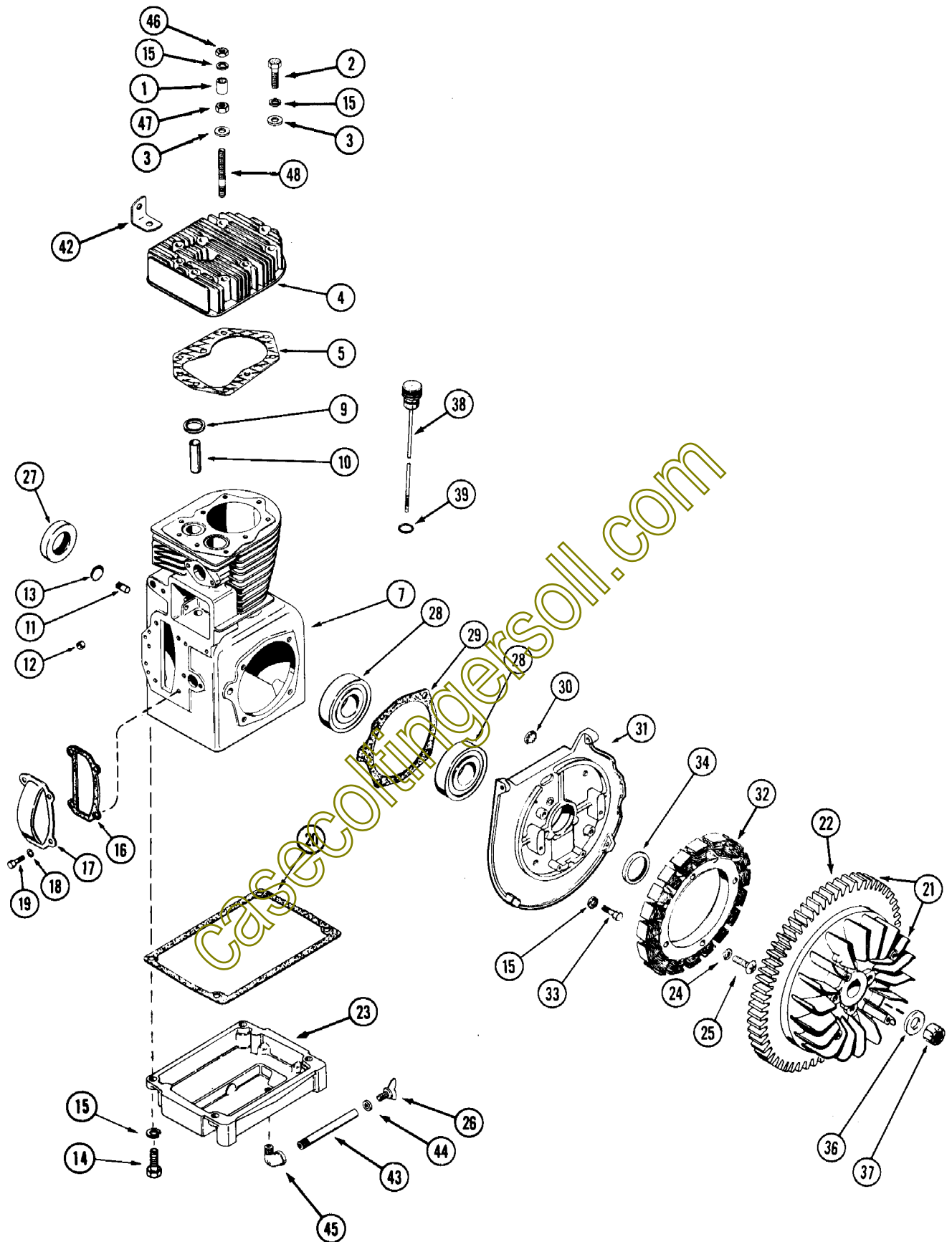
222 CRANKSHAFT, PISTON – CONNECTING ROD

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PISTON AND ROD ASSEMBLY (Std. size)	1
2	KO 235889	RING SET - piston (For oversize, see item 16)	1
3	NSS	RING - top compression	1
4	NSS	RING - 2nd compression (Includes expander)	1
5	NSS	RING - oil (Includes expander)	1
6	KOA 235827	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235004	RETAINER - piston pin	2
8	NSS	PIN - piston	1
9	NSS	PISTON	1
10	KOA 237344	CONNECTING ROD ASSEMBLY (For undersize, see item 18).	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER	2
13	NSS	SCREW - cap, connecting rod	2
14	NSS	ROD - connecting.	1
15	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 std. ring set)	1
16	KO 235890	RING SET - piston .010" oversize	1
16	KO 235891	RING SET - piston .020" oversize	1
16	KO 235892	RING SET - piston .030" oversize	1
18	C 23135	CONNECTING ROD ASSEMBLY - .010" undersize	1
19	R 16287	OIL SEAL - crankshaft rear	1
20	40035	BEARING - crankshaft ball	2
21	W 5063-S	KEY - 1/4" Sq. x 3/4" (Pump Coupling).	1
22	KOB 235949	CRANKSHAFT	1
23	H 61168	KEY - flat 3/16" x 3/16" x 1 3/8" (Flywheel).	1
24	C 18097	OIL SEAL - crankshaft front	1
25	195- 541	WASHER - 5/8".	1
26	131- 580	NUT - special Marsden 5/8" NF	1



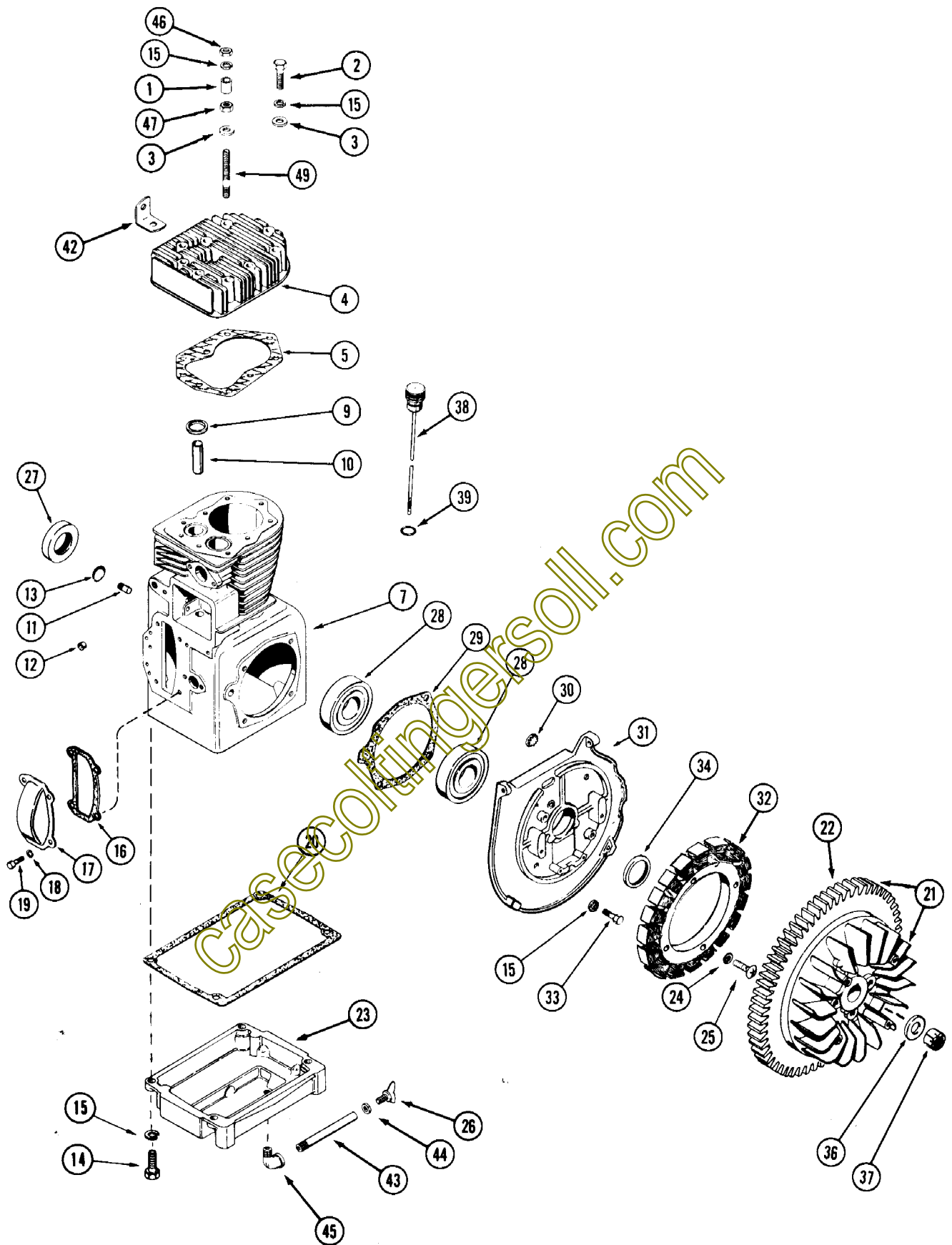
224 AND 444 CRANKSHAFT, PISTON – CONNECTING ROD

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PISTON AND ROD ASSEMBLY (Std. size)	1
2	KO 236763	RING SET - piston (For oversize, see item 16)	1
3	NSS	RING - top compression	1
4	NSS	RING - 2nd compression (Includes expander)	1
5	NSS	RING - oil (Includes expander)	1
6	KOA 237401	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235004	RETAINER - piston pin	2
8	NSS	PIN - piston	1
9	NSS	PISTON	1
10	KOA 237344	CONNECTING ROD ASSEMBLY (For undersize, see item 18)	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER - 3/8"	2
13	NSS	SCREW - cap, connecting rod	2
14	NSS	ROD - connecting	1
15	KOA 237403	PISTON ASSEMBLY - .010" oversize	1
15	C 26190	PISTON ASSEMBLY - .020" oversize	1
15	KOA 237405	PISTON ASSEMBLY - .030" oversize	1
15	KOA 237402	PISTON ASSEMBLY - .003" oversize (order KO236763 std. ring set)	1
16	KO 236764	RING SET - piston .010" oversize	1
16	KO 236765	RING SET - piston .020" oversize	1
16	KO 236766	RING SET - piston .030" oversize	1
18	C 23135	CONNECTING ROD ASSEMBLY - .010" undersize	1
19	R 16287	OIL SEAL - crankshaft rear	1
20	40035	BEARING - crankshaft ball	2
21	W 5063-S	KEY - 1/4" Sq. x 3/4" (Pump Coupling)	1
22	C 25054	CRANKSHAFT	1
23	H 61168	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel)	1
24	C 18097	OIL SEAL - crankshaft front	1
25	195- 541	WASHER - 5/8"	1
26	131- 580	NUT - special Marsden 5/8" NF	1



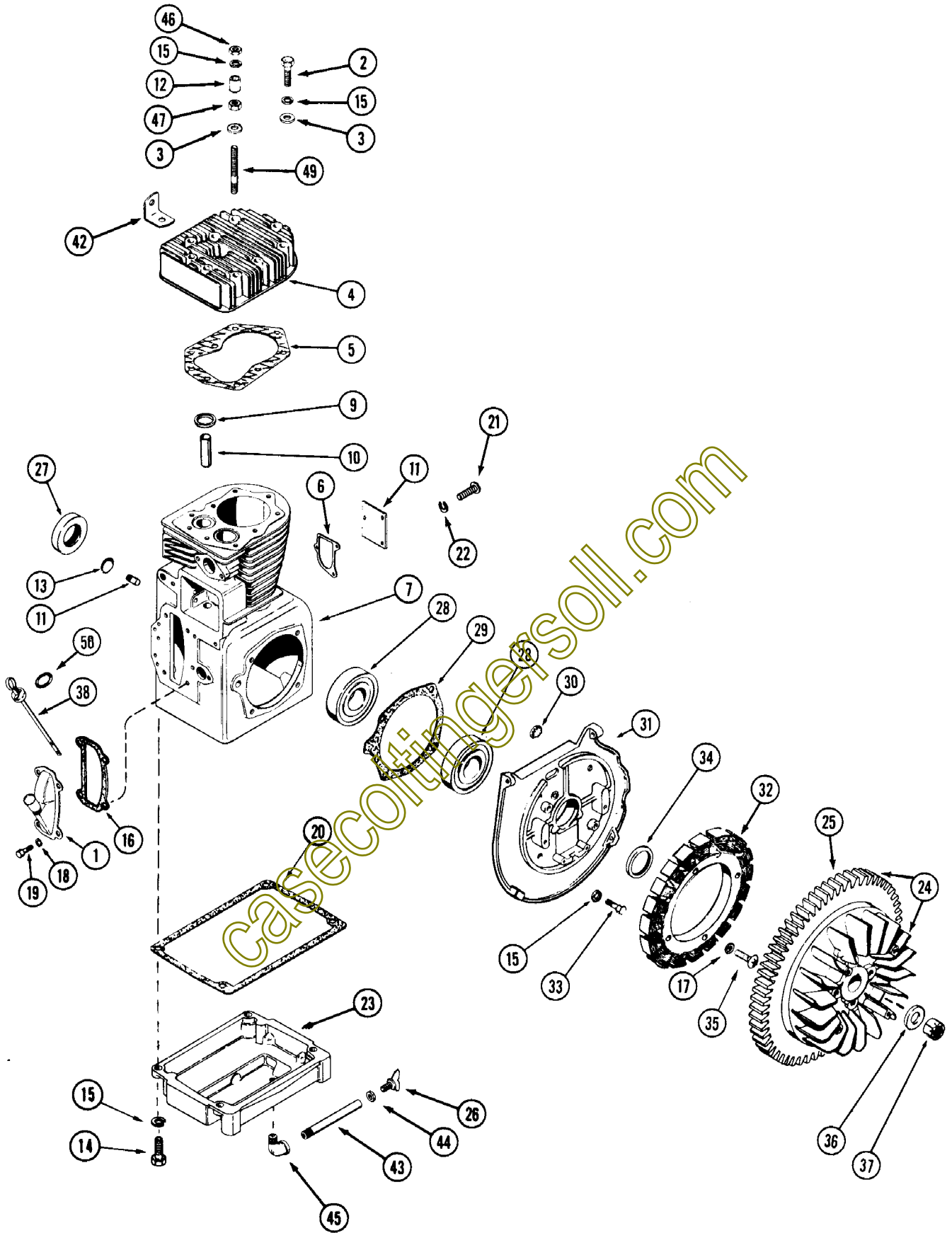
220 ENGINE BLOCK AND ATTACHING PARTS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 21814	SPACER - cylinder head	6
2	KO 270158	BOLT - cylinder head	2
3	KO 270889	WASHER - cylinder head	9
4	KO 236675	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
7	C 24139	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft, piston assembly, ring set, crankshaft seals, rod assembly, camshaft assembly, valves, bearings, plate and plate gasket, governor gear assembly and cross shaft) (also includes gaskets)	1
9	KO 230170	INSERT - exhaust valve	1
10	KO 235007-S	GUIDE - valve	2
11	KO 235125-S	SHAFT - stub, governor	1
12	V 34418	BEARING - needle, governor shaft	1
13	41- 18	PLUG - expansion	1
14	113- 209	BOLT - 3/8" x 1-1/2" NC hex plated	4
15	92- 6	LOCKWASHER - 3/8" plated	17
16	KO 235025	GASKET - camshaft cover	1
17	KO 235026	COVER - camshaft gear	1
18	92- 4	LOCKWASHER - 1/4" plated	4
19	13- 48	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan	1
21	C 24883	FLYWHEEL ASSEMBLY	1
22	NSS	RING GEAR	1
23	C 22699	BASE - oil pan	1
24	193- 99	LOCKWASHER - internal tooth	4
25	182- 541	SCREW - stator	4
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - bearing plate	1
29	KO 235070	GASKET - shim, O.D.	UAR
30	205- 27	PLUG - button, timing hole	1
31	C 24290	PLATE - bearing	1
32	V 34427	STATOR - 15 amp.	1
	C 24888	CONNECTOR - stator	1
33	113- 207	BOLT - 3/8" x 1" NC plated	4
34	C 18097	OIL SEAL - crankshaft front	1
36	195- 541	WASHER - special, plated	1
37	131- 580	NUT - special, Marsden	1
38	C 14953	DIPSTICK ASSEMBLY	1
39	A 27365	"O" RING - dipstick	1
42	KO 235748	STRAP - lifting	1
43	C 18874	NIPPLE - oil drain extension	1
44	C 14906	GASKET - plug, oil drain	1
45	221- 1412	ELBOW - street	1
46	129- 143	NUT - 3/8" NC hex. jam	6
47	129- 103	NUT - 3/8" NC hex	6
48	KO 237277	STUD - cylinder head	7



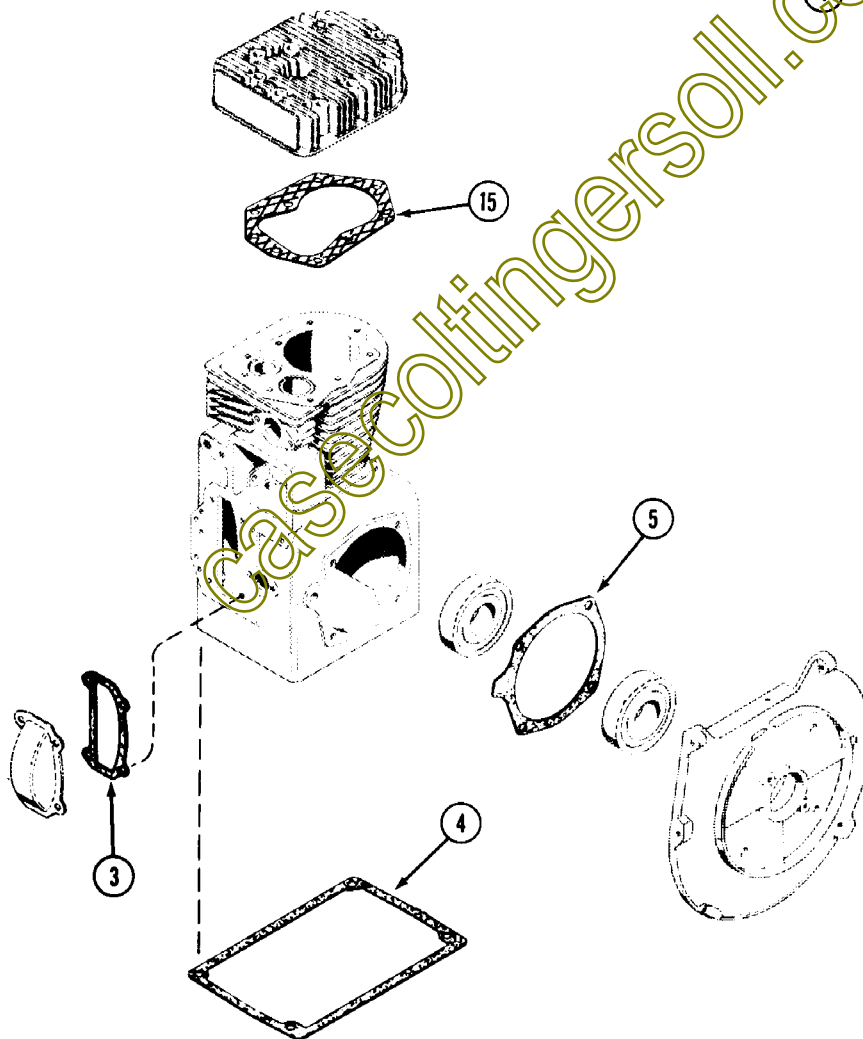
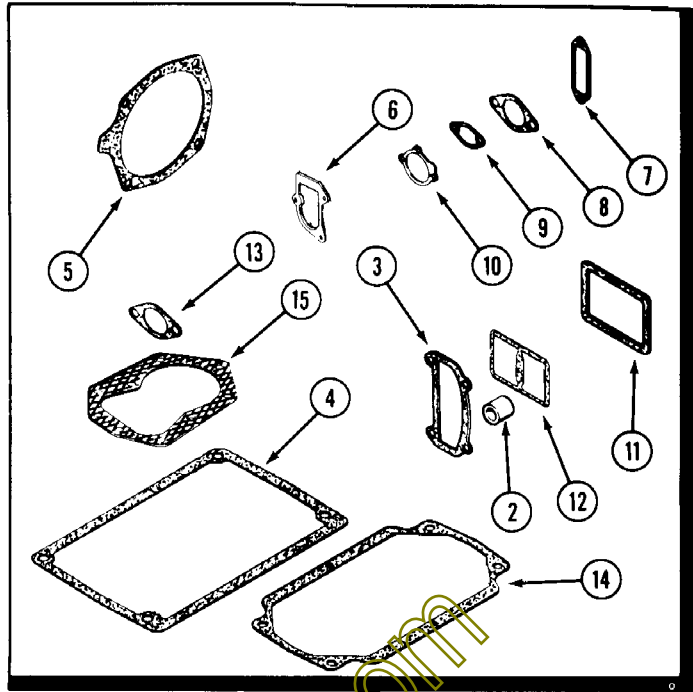
222 ENGINE BLOCK AND ATTACHING PARTS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 21814	SPACER - cylinder head	6
2	KO 270158	BOLT - cylinder head 3/8" x 1-1/2" NC hex.	2
3	KO 270889	WASHER - cylinder head	9
4	KO 237670	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
7	C 24141	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft, piston assembly, ring set, crankshaft seals, rod assembly, camshaft assembly, valves, bearings, plate and plate gasket, governor gear assembly and cross shaft) (also includes gasket set)	1
9	KO 230170	INSERT - exhaust valve	1
10	KO 235007-S	GUIDE - valve	2
11	KO 235125-S	SHAFT - stub, governor	1
12	V 34418	BEARING - needle, governor shaft	1
13	41- 18	PLUG - expansion.	1
14	113- 209	BOLT - 3/8" x 1-1/2" NC hex plated	4
15	92- 6	LOCKWASHER - 3/8" plated	17
16	KO 235025	GASKET - camshaft cover	1
17	KO 235026	COVER - camshaft gear	1
18	92- 4	LOCKWASHER - 1/4" plated	4
19	13- 48	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan.	1
21	C 24883	FLYWHEEL ASSEMBLY.	1
22	NSS	RING GEAR	1
23	C 22699	BASE - oil pan.	1
24	193- 99	LOCKWASHER - internal tooth.	4
25	182- 541	SCREW - stator.	4
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - bearing plate	6
29	KO 235070	GASKET - shim .020"	UAR
30	205- 27	PLUG - button, timing hole	1
31	C 24290	PLATE - bearing	1
32	V 34427	STATOR	1
	C 24888	CONNECTOR - stator	1
33	113- 107	BOLT - 3/8" x 1" NC plated	4
34	C 18097	OIL SEAL - crankshaft front	1
36	195- 541	WASHER - special, plated	1
37	131- 580	NUT - special, Marsden	1
38	C 14953	DIPSTICK ASSEMBLY.	1
39	A 27365	"O" RING - dipstick	1
42	KO 235748	STRAP - lifting	1
43	C 18874	NIPPLE - oil drain extension.	1
44	C 14906	GASKET - plug, oil drain.	1
45	221- 1412	ELBOW - street	1
46	129- 143	NUT - 3/8" NC hex, jam	6
47	129- 103	NUT - 3/8" NC hex	6
48	92- 6	LOCKWASHER - 3/8"	9
49	KO 237277	STUD - cylinder head	7



224 AND 444 ENGINE BLOCK AND ATTACHING PARTS

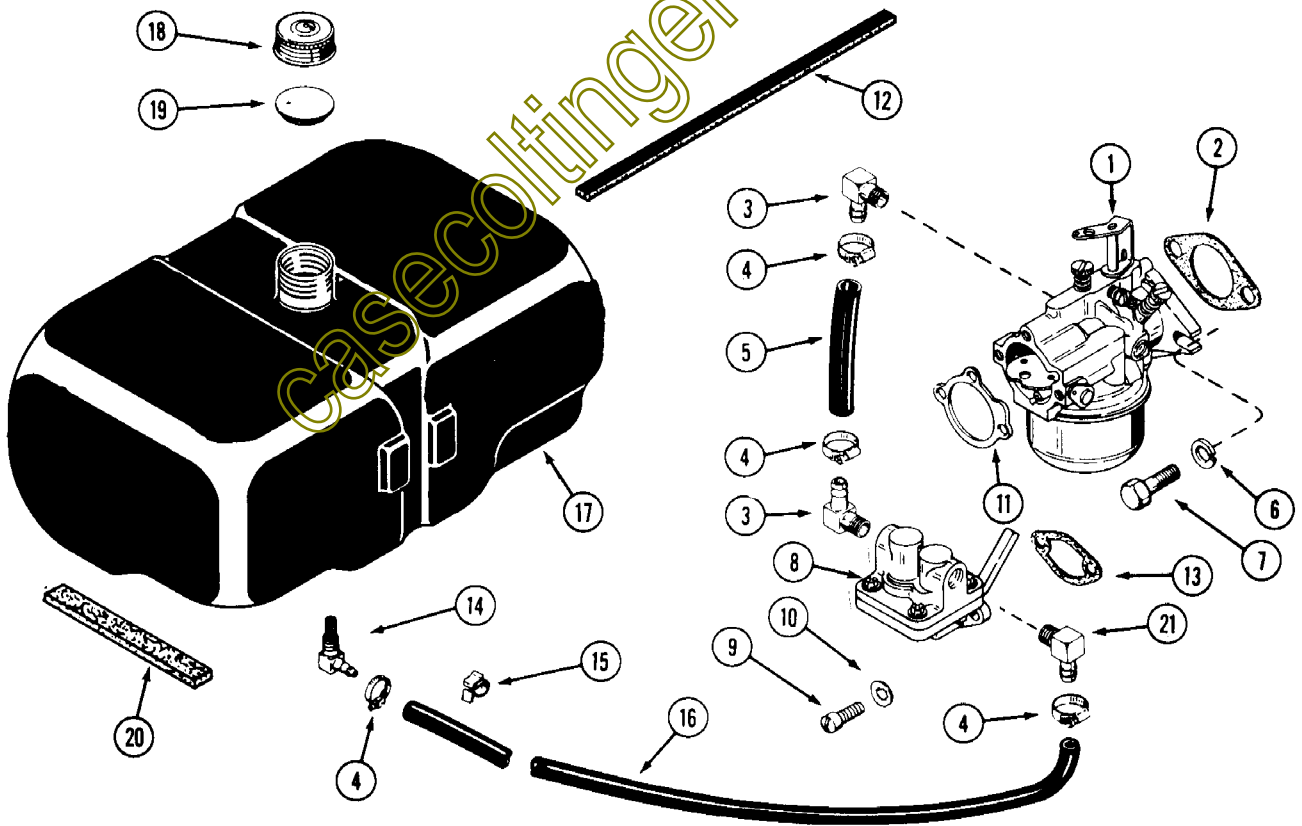
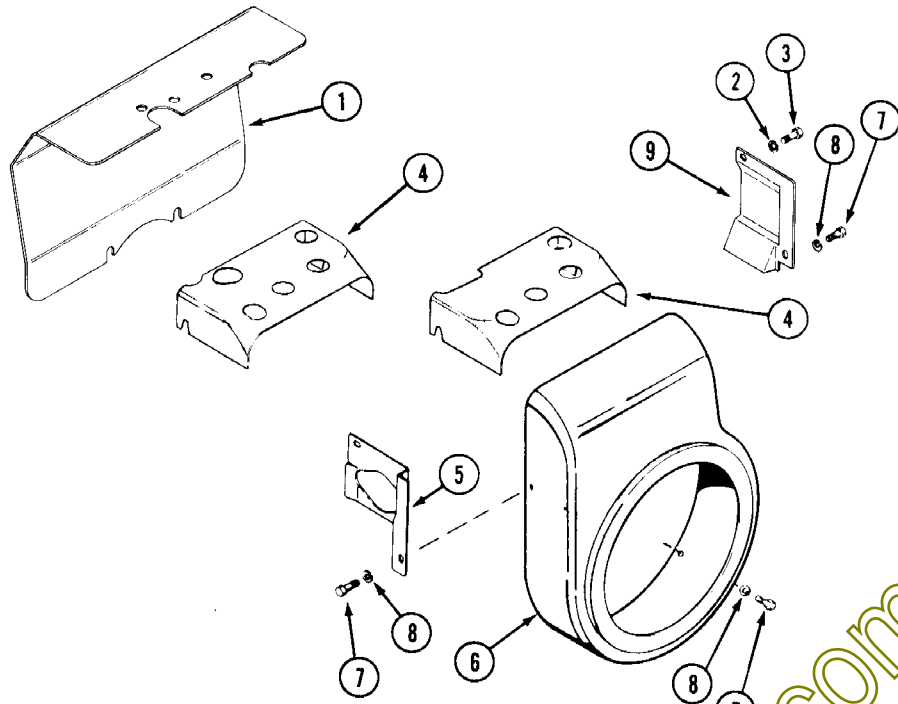
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24490	FILLER TUBE	1
2	KO 270158	BOLT - cylinder head special 3/8" x 1-1/2" NC hex	2
3	KO 270889	WASHER - cylinder head bolt	9
4	KO 237670	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
6	KO 237064	GASKET - filler tube	1
7	C 24143	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft and seals, ring set, piston assembly, rod assembly, camshaft assembly, valves, bearing, plate and plate gasket, governor gear assembly and cross shaft) (also includes gasket set)	1
8	C 24142	BLOCK ASSEMBLY - cylinder, mini (Includes camshaft assembly, piston assembly, ring set, valves, rod assembly, rear crankshaft seal, governor gear assembly and cross shaft) (also includes gasket set)	1
9	KO 230170	INSERT - exhaust valve	1
10	KO 235007-S	GUIDE - valve	2
11	C 24495	COVER	1
12	C 21814	SPACER - cylinder head	1
13	41- 18	PLUG - expansion	1
14	113- 209	BOLT - 3/8" x 1-1/2" NC hex plated	4
15	92- 6	LOCKWASHER - 3/8" plated	4
16	KO 235025	GASKET - camshaft cover, oil fill tube	1
17	193- 99	LOCKWASHER	4
18	92- 4	LOCKWASHER - 1/4" plated	4
19	13- 48	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan	1
21	173- 96	SCREW - #10 x 7/16" round head machine	3
22	193- 26	LOCKWASHER - #10 internal tooth	7
23	C 22699	BASE - oil pan	1
24	C 24883	FLYWHEEL ASSEMBLY	1
25	KO 236285	RING GEAR	1
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - bearing plate	1
29	KO 235070	GASKET - shim, .010"	UAR
30	205- 27	PLUG - button, timing hole	1
31	C 24290	PLATE - bearing	1
32	V 34427	STATOR	1
33	113- 207	BOLT - 3/8" x 1" NC plated	4
34	C 18097	OIL SEAL - crankshaft front	1
35	182- 541	SCREW - stator	4
36	195- 541	WASHER - special, plated 21/32" ID x 1-3/8" OD x 1/4"	1
37	131- 381	NUT - special Marsden 5/8"	1
38	C 24491	DIPSTICK ASSEMBLY	1
42	KO 235748	STRAP - lifting	1
43	C 18814	NIPPLE - oil drain extension	1
44	C 14906	GASKET - plug, oil drain	1
45	221- 1412	ELBOW - street	1
46	129- 143	NUT - 3/8" NC hex, jam	6
47	129- 103	NUT - 3/8" NC hex	6
49	KO 237277	STUD - cylinder head	7



ENGINE GASKET AND SEAL KIT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23858	KIT - engine gasket (10 thru 14 hp engines)	1
2	KO 231032	SEAL - breather (14 hp engine)	1
3	KO 235025	GASKET - camshaft cover	1
4	KO 235353	GASKET - oil pan	1
5	KO 235757	GASKET - bearing plate	6
5	KO 235070	GASKET - shim (.010").	UAR
6	KO 237064	GASKET - oil fill tube (used on 14 hp)	1
7	KO 220174	GASKET - breaker cover	1
8	C 23860	GASKET - carburetor flange.	1
9	C 24887	GASKET - fuel pump flange.	1
10	KO 275341	GASKET - carburetor air horn	1
11	KO 235048	GASKET - breather plate.	1
12	KO 275144	GASKET - valve cover.	1
13	C 10372	GASKET - exhaust	1
14	KO 235057	GASKET - pan (not used).	1
15	KO 237658	GASKET - cylinder head	1

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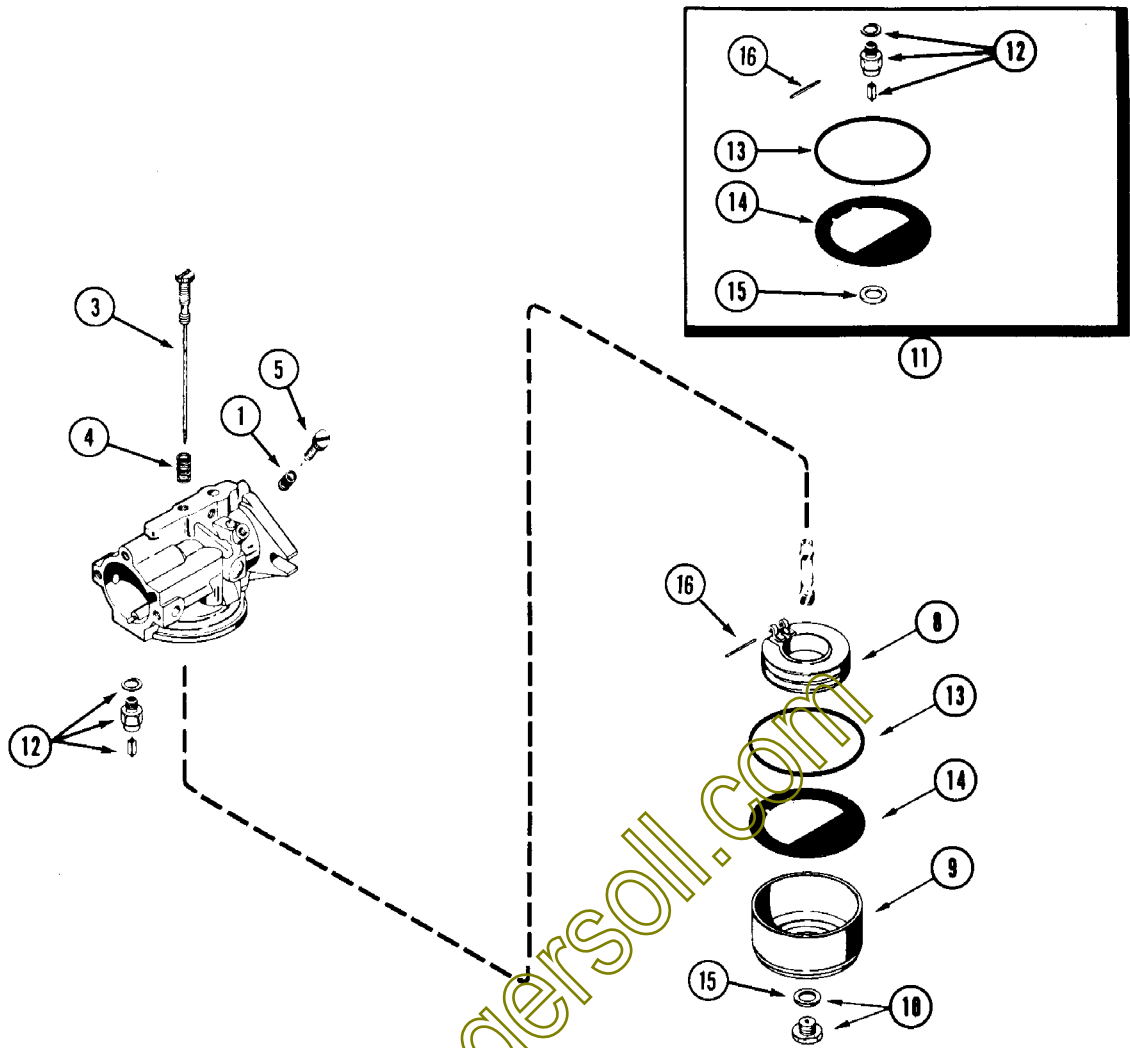


BAFFLES AND SHROUDS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 22684	DEFLECTOR - engine air	1
2	92- 4	LOCKWASHER - 1/4" zinc plated	2
3	13- 48	BOLT - 1/4" x 1/2" NC hex, zinc plated	2
4	KO 237520	BAFFLE - cylinder head (10 hp engine)	1
4	KO 237677	BAFFLE - cylinder head (12 - 14 hp engine)	1
5	KO 235652	BAFFLE - carburetor side air	1
6	C 24879	HOUSING - blower.	1
7	113- 2	BOLT - 1/4" x 3/4" NC hex, zinc plated	4
8	92- 4	LOCKWASHER - 1/4" zinc plated	4
9	KO 236676	BAFFLE - cylinder	1

FUEL SYSTEM

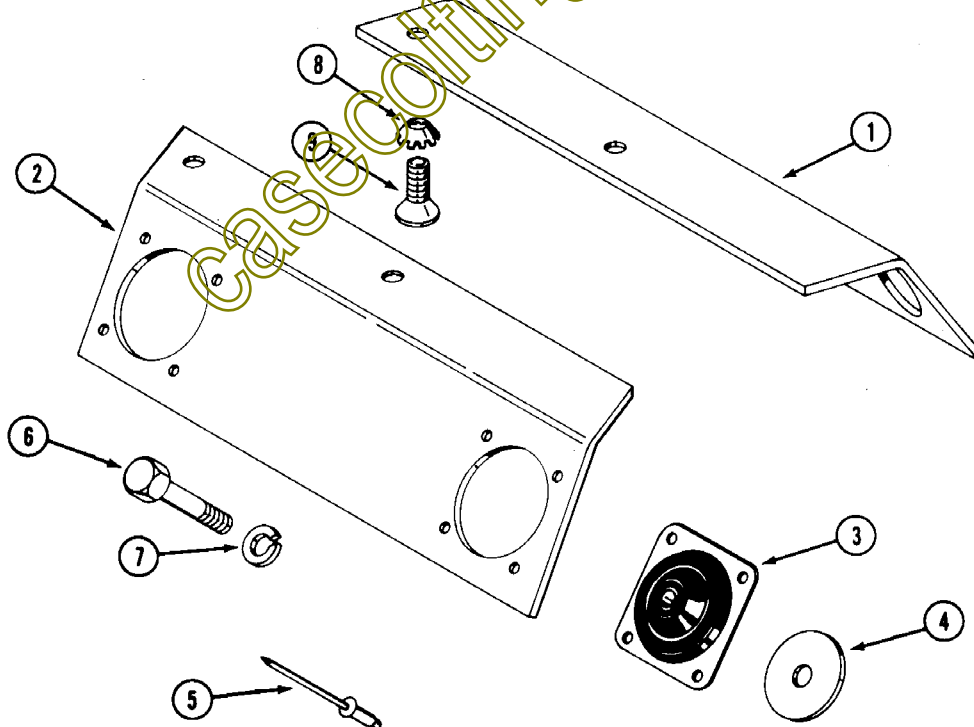
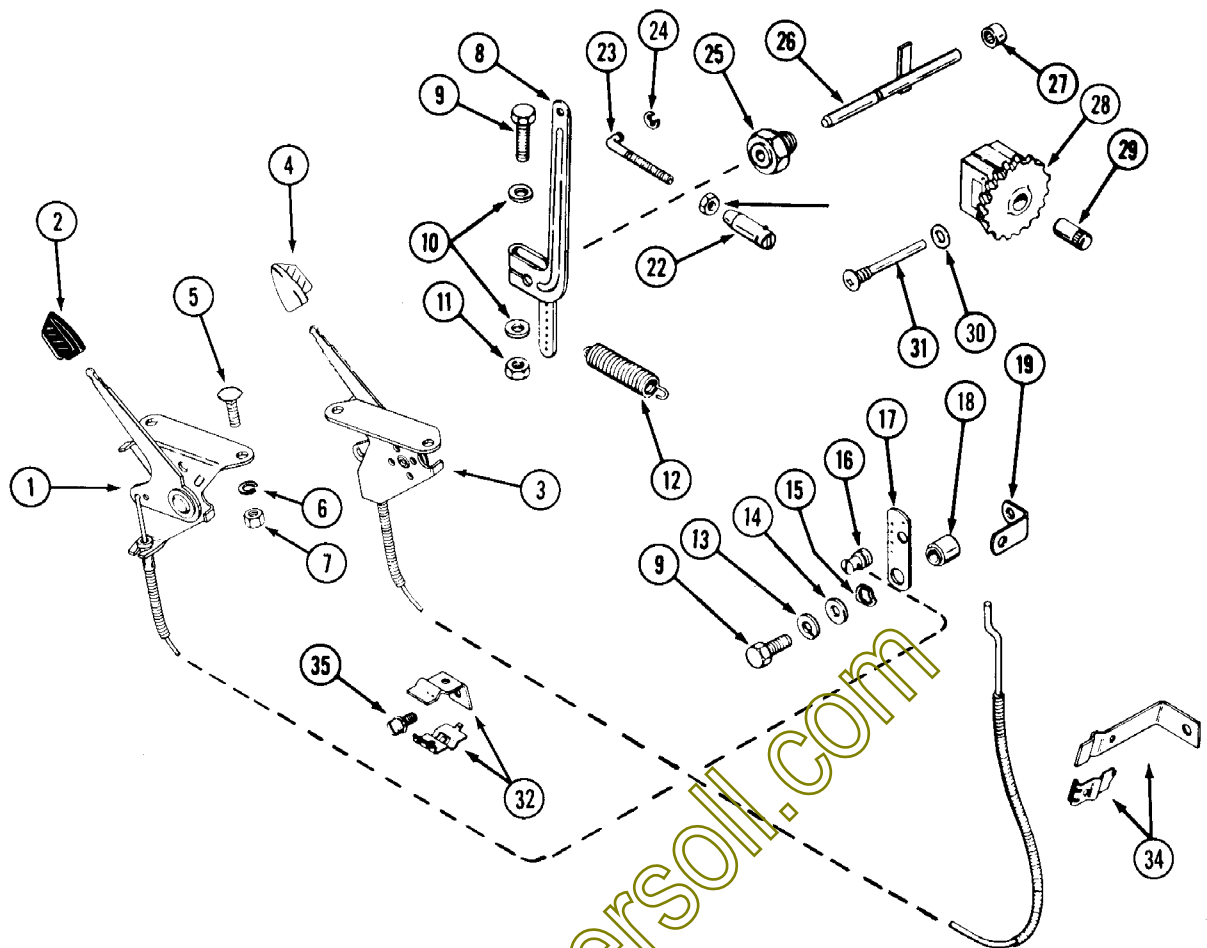
1	C 24408	CARBURETOR ASSEMBLY - 444 & 224 (Repairs page 27)	1
1	C 23049	CARBURETOR ASSEMBLY - 220 & 222 (Repairs page 27)	1
2	C 23860	GASKET - carburetor flange	1
3	C 10678	ELBOW - fuel pump and carburetor	2
4	214- 103	CLAMP - hose 1/2"	4
5	V 34404	HOSE - carburetor 5-1/4"	1
6	192- 20	LOCKWASHER 5/16"	2
7	113- 103	BOLT - 5/16" x 1" NC hex	2
8	C 24851	PUMP - fuel, all models (Includes gasket & washers)	1
9	71- 412	SCREW - 1/4" x 3/4" NC flister head	2
10	193- 28	LOCKWASHER - 1/4"	2
11	KO 275341	GASKET - air horn	1
12	C 23527	LINER - fuel tank	1
13	C 24887	GASKET - fuel pump mounting, all models	1
14	C 10657	ELBOW ASSEMBLY - fuel tank	1
15	A 62079	CLIP - fuel line	2
16	C 18274	HOSE - fuel line	1
17	C 23815	TANK - fuel	1
18	C 11529	CAP - fuel tank (Includes insert)	1
19	NSS	INSERT - fuel cap	1
20	C 14690	CUSHION - fuel tank	2
21	217- 292	ELBOW - hose 90°	1



CARBURETOR

REF.	PART NO.	DESCRIPTION	REQ'D
	C 23049	CARBURETOR ASSEMBLY - 220, 222	1
	C 24408	CARBURETOR ASSEMBLY - 224 & 444	1
1	KO 200380	SPRING - tension, idle adjust	1
3	A 72077	NEEDLE - main fuel adjust, 220, 222	1
3	C 24652	NEEDLE - main fuel adjust, 224 & 444	1
4	KO 200383	SPRING - main fuel adjust	1
5	A 72099	NEEDLE - idle adjust (220, 222)	1
5	KO 275231	NEEDLE - idle adjust (224 & 444)	1
8	A 72078	FLOAT - carburetor	1
9	KO 235448	BOWL - carburetor	1
10	KO 235447	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
16	F 19892	PIN - float	1

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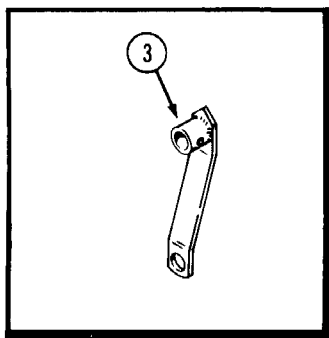
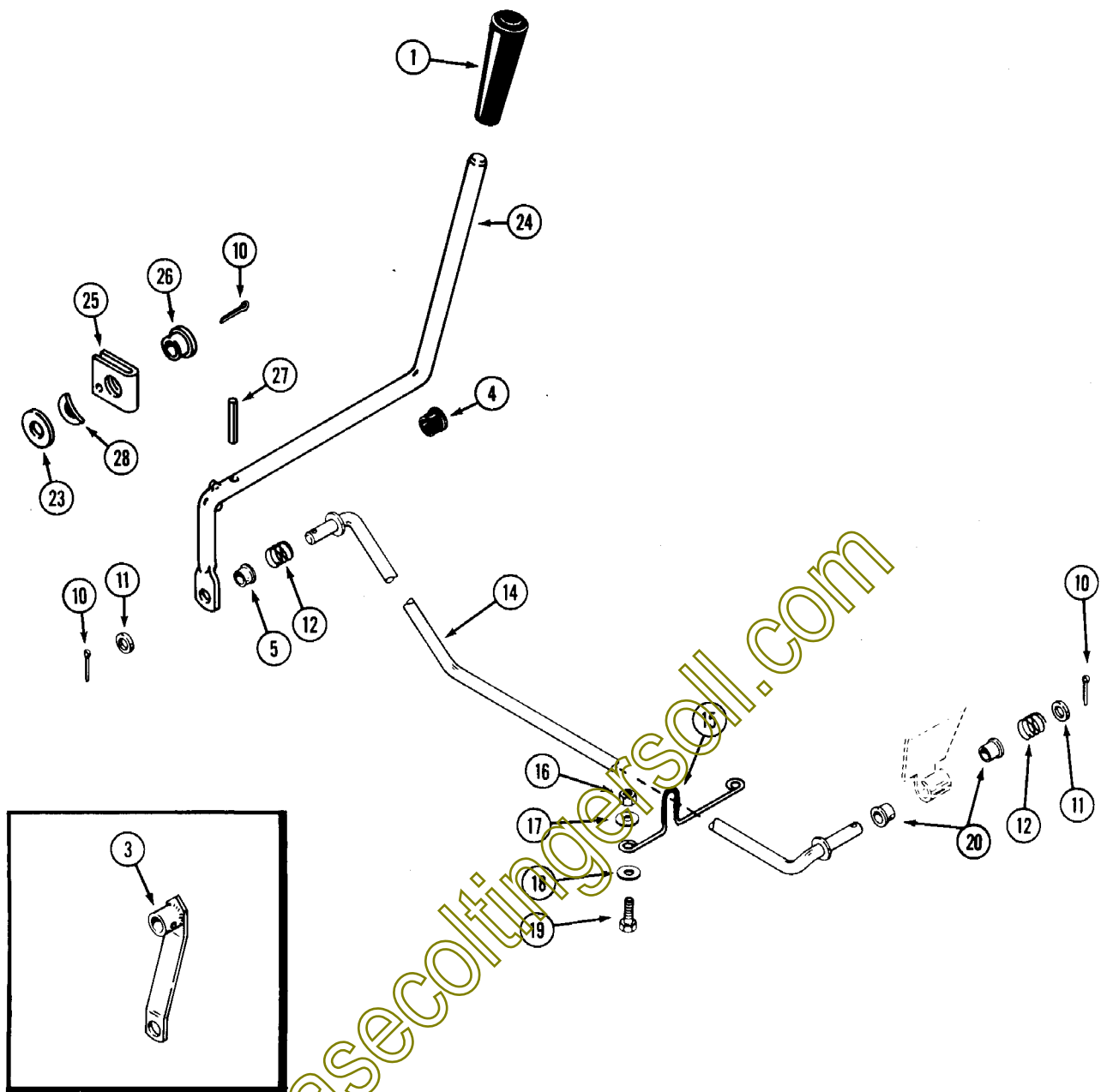


CHOKE, THROTTLE AND GOVERNOR

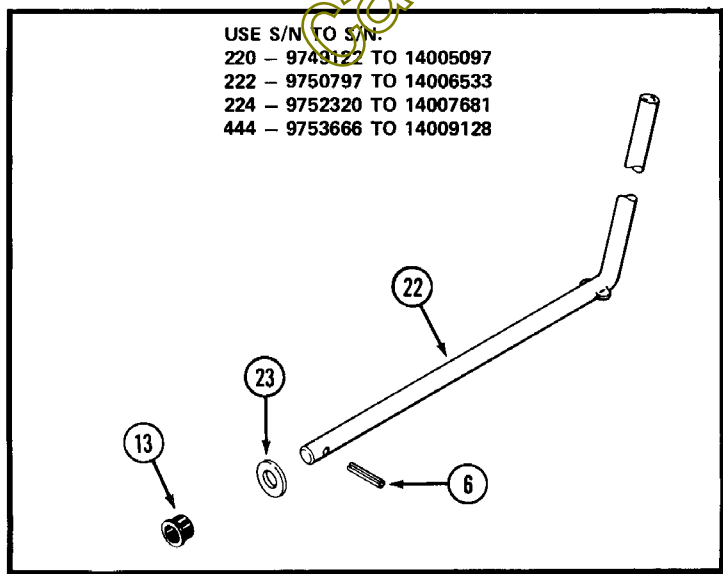
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25603	CONTROL - throttle	1
2	C 12224	HANDLE - throttle control, black	1
3	C 25605	CONTROL - choke	1
4	C 14506	HANDLE - choke control, white	1
5	111- 5	BOLT - 10-24 x 5/8" round head, square neck	2
6	192- 18	LOCKWASHER - #10 Std. plated	2
7	129- 17	NUT - #10-24 plated	2
8	KOA 237653	LEVER - governor	1
9	113- 17	BOLT - 1/4" x 1-1/4" NC hex	2
10	195- 518	WASHER - 1/4" plated	2
11	129- 409	NUT - 1/4" hex	1
12	KO 235496	SPRING - governor	1
13	92- 4	LOCKWASHER - 1/4" plated	1
14	C 18098	WASHER - thrust	1
15	KO 275690	WASHER - wavy	1
16	H 43034	CLAMP - swivel, wire	1
17	KO 235086	LEVER - speed control	1
18	KO 235085	SPACER - speed control bracket	1
19	KO 235084	BRACKET - high speed stop	1
20	129- 37	NUT - #10-32 hex	1
22	C 25020	JOINT - ball	1
23	KO 235277	ROD - throttle	1
24	49485	RING - retaining, throttle rod	1
25	KO 235476	BUSHING - governor cross shaft	1
26	C 23126	SHAFT - governor cross	1
27	V 34418	BEARING - needle, governor shaft	1
28	V 34419	GEAR ASSEMBLY - governor	1
29	KO 235125-S	SHAFT - governor stub	1
30	C 18099	WASHER - governor stop pin	1
31	V 34416	PIN - governor stop	1
32	KOA 237559	BRACKET - throttle cable	1
34	KOA 236919	BRACKET - choke cable	1
35	V 34421	SCREW - #10 x 3/8" NC fillister head	1
36	E 78369	SPACER - shaft (used engine S/N 3173783 and after)	1

ENGINE MOUNT PLATES

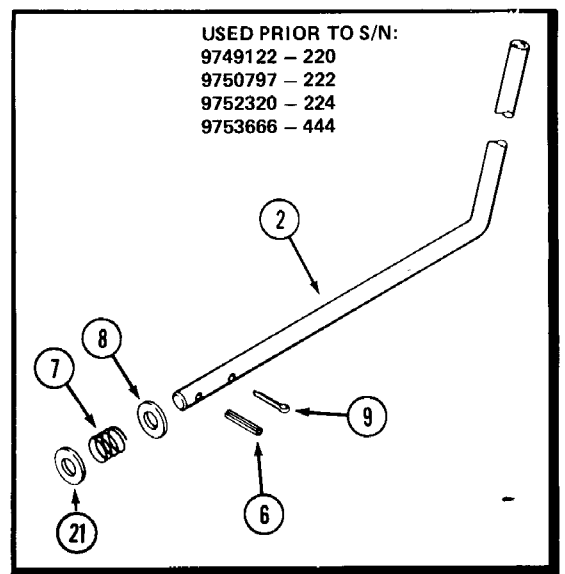
1	C 17717	PLATE - engine mount L.H.	1
2	C 22904	PLATE - engine mount R.H.	1
3	C 18793	MOUNT - engine	4
4	D 22988	WASHER - snubbing	4
5	151- 210	RIVET - semi tubular 3/16"	16
6	113- 219	BOLT - 3/8" x 2" NC hex	4
7	192- 21	LOCKWASHER - 3/8"	4
8	193- 56	LOCKWASHER - 3/8" countersunk external tooth	4
9	164- 50	BOLT - flat head hex socket	4



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



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



PTO CLUTCH LINKAGE

REF.	PART NO.	DESCRIPTION	REQ'D
1	A 37247	KNOB - lever, PTO	1
2	NSS	LEVER - PTO engaging (order item 22 and 23)	1
3	C 24872*	ARM ASSEMBLY - PTO	1
3	C 24792	ARM ASSEMBLY - PTO (used prior to 220 - S/N 9734921, 222 - S/N 9737066, 224 - S/N 9738351 and 444 - S/N 9739749)	1
4	353- 462	BUSHING - lever, dash tower	1
5	C 20093	BUSHING - fliplock	1
6	138- 96	PIN - roll - 3/16" x 1"	1
7	C 20036	SPRING - lever, PTO.	1
8	A 39519	WASHER - nylon	1
9	132- 91	PIN - cotter 3/16 x 1"	1
10	132- 310	PIN - cotter 1/8 x 1"	2
11	C 14906	WASHER - nylon 3/8"	2
12	C 19867	SPRING - clutch rod	2
13	353- 442	BUSHING - heyco	1
14	C 20041	ROD - clutch	1
15	C 19767	GUIDE - clutch rod	1
16	131- 1181	NUT - lock 3/8" n.c. hex	2
17	195- 104	WASHER - 3/8"	2
18	195- 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
21	195- 2069	WASHER - 5/8"	1
22	C 25013	LEVER - PTO engaging	1
23	195- 533	WASHER - 1/2"	1
24	C 26265	LEVER - PTO engaging	1
25	C 26264	BRACKET - support, PTO lever.	1
26	C 26266	BUSHING - flange, nylon	1
27	138- 63	PIN - roll 1/8" x 1 1/4"	1
28	H 202325	WASHER - spring	1

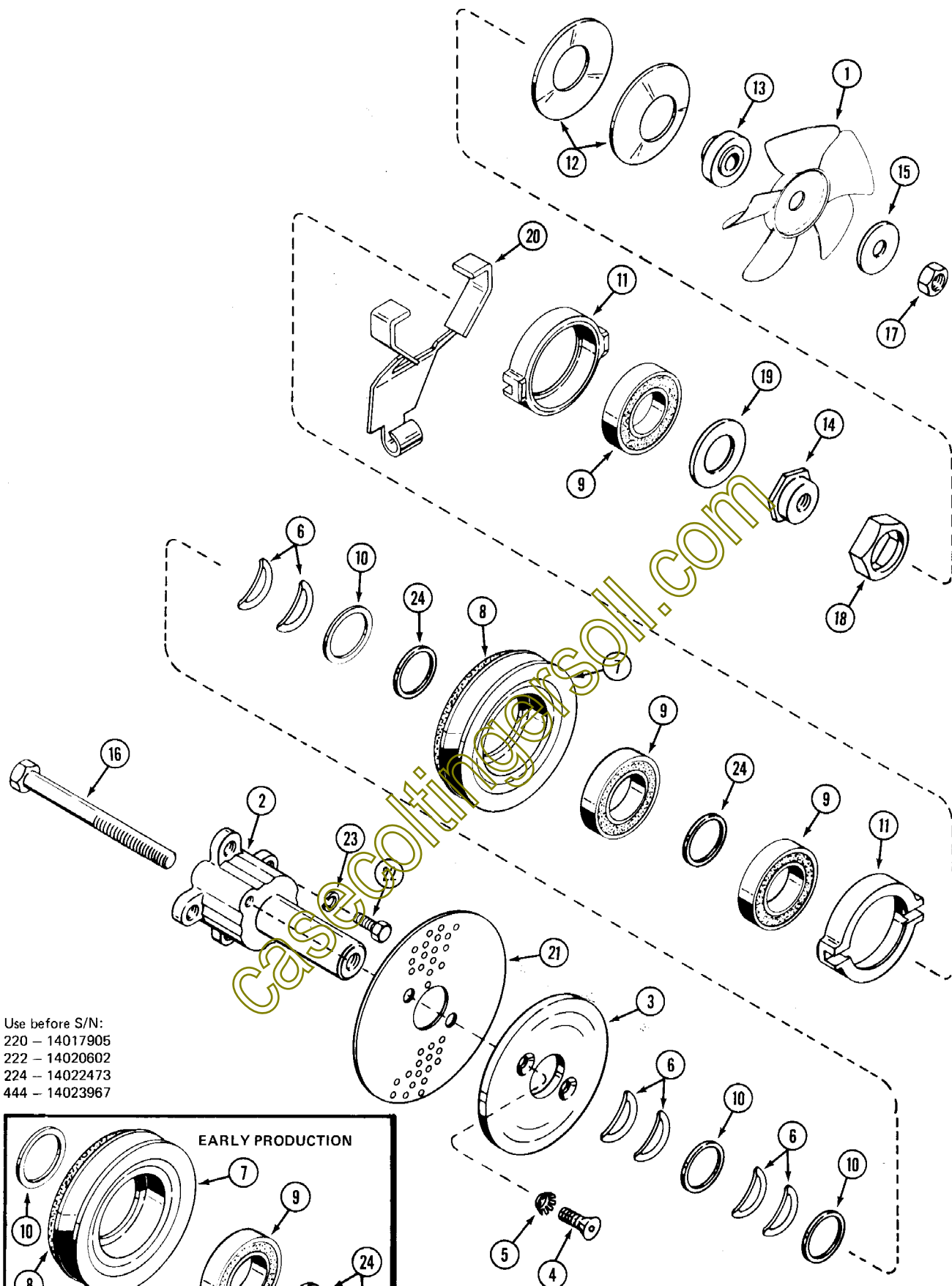
*use S/N to S/N:

220 - 9734921 to 14005097

222 - 9737066 to 14006533

224 - 9738351 to 14007681

444 - 9739749 to 14009128



CLUTCH ASSEMBLY (PTO)

REF.	PART NO.	DESCRIPTION	REQ'D
	C 24774	CLUTCH AND FAN ASSEMBLY	1
1	C 16616	FAN - cooling	1
2	C 23677	HUB - clutch	1
3	C 15718	PLATE - clutch	1
4	164- 40	BOLT - 5/16" - 18 x 3/4"	2
5	193- 76	LOCKWASHER - 5/16" countersunk external tooth	2
6	C 15515	WASHER - spring	6
7	C 26353	KIT - pulley and disc assembly (includes item 24)	1
8	C 23740	KIT - friction disc	1
9	C 23245	BEARING - ball	3
10	C 15557	WASHER - spacer .050	3
11	C 23033	CAM - clutch	2
12	C 16786	SPRING - clutch load	2
13	C 23630	SPACER - hub	1
14	C 23625	NUT - adjust	1
15	O 2815N	WASHER - fan 17/32"	1
16	C 24743	BOLT - 1/2" - 20 x 5-1/2" NF	1
17	129- 125	NUT - 1/2" - 20 NF	1
18	C 23627	GUIDE - adjusting nut	1
19	C 23624	WASHER - spacer	1
20	C 23391	ARM - engaging	1
21	C 15746	SCREEN - grass	1
22	113- 207	BOLT - 3/8" - 16 x 1" NC	4
23	192- 21	LOCKWASHER - 3/8"	4
24	C 26346*	SPACER - washer .100" (see note on opposite page for early production) ..	2

* Use S/N and after:

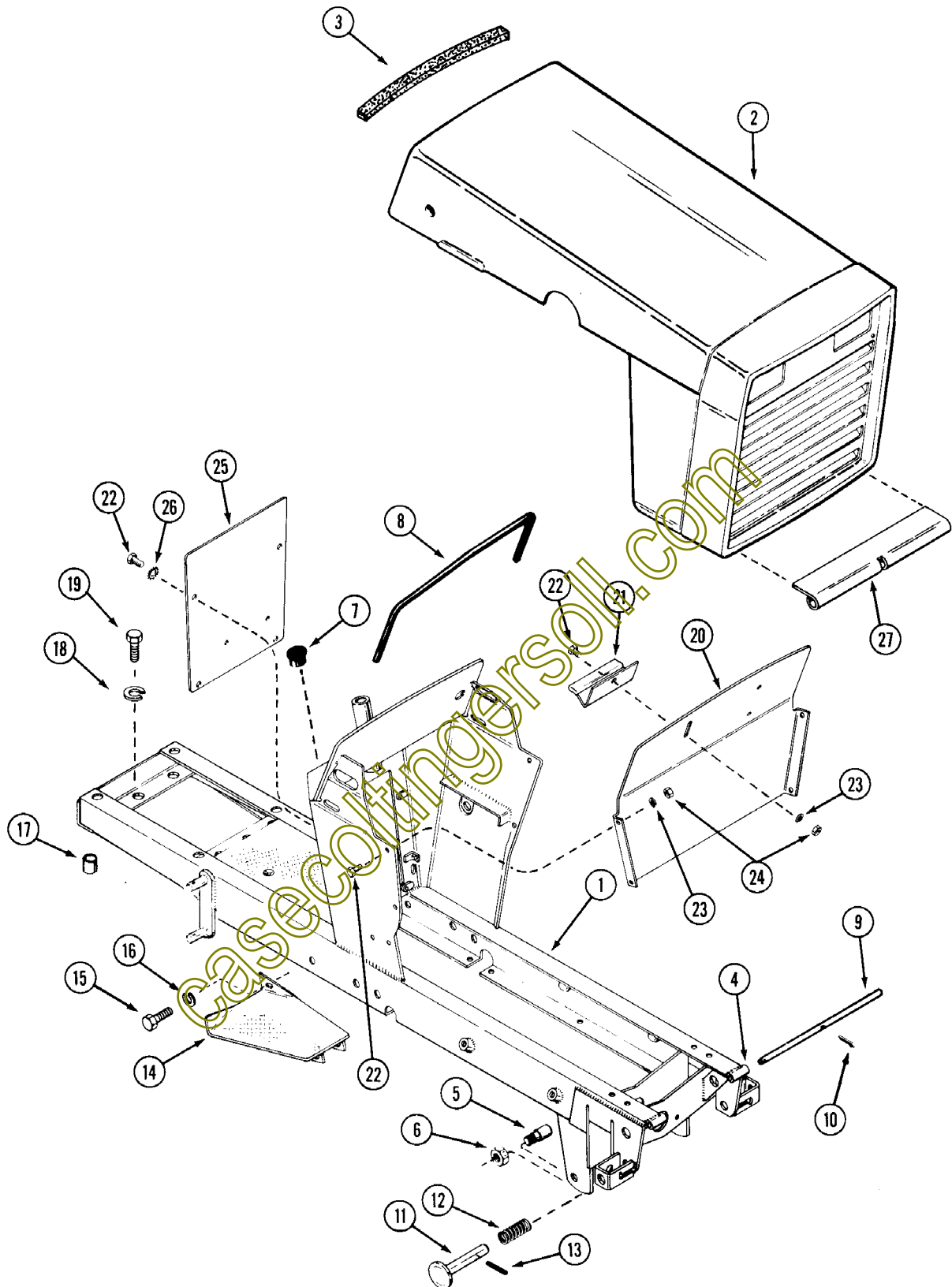
220 - 14017906

222 - 14020602

224 - 14022473

444 - 14023967

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



HOOD, FRAME AND GRILLE

220 - USE S/N 9762275 AND AFTER

222 - USE S/N 9763700 AND AFTER

224 - USE S/N 9765195 AND AFTER

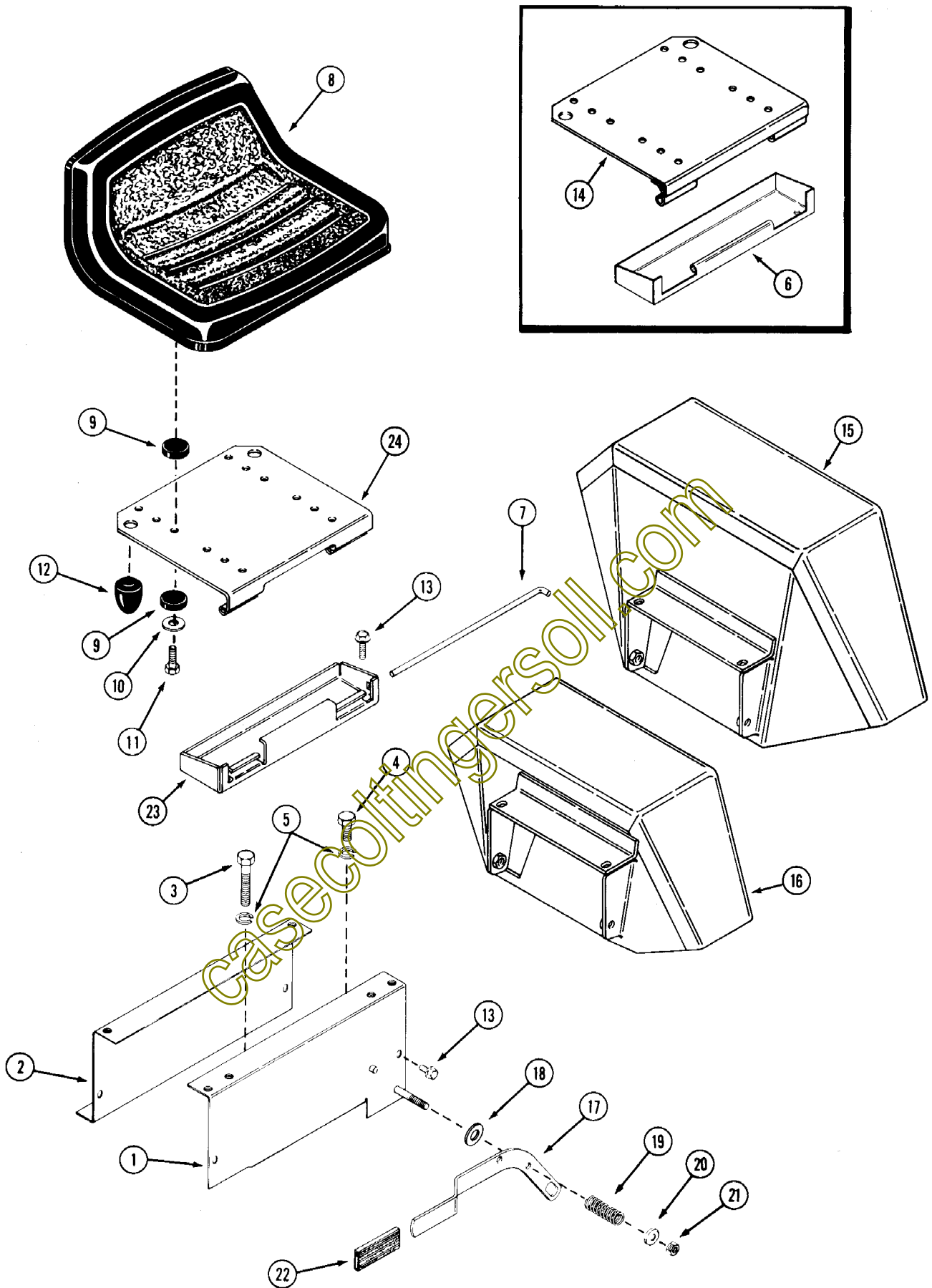
444 - USE S/N 9766840 AND AFTER

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26270†	FRAME - main (220, 222 and 224)(shown)	1
1	C 26271†	FRAME - main (444)	1
2	C 22775	HOOD AND GRILLE ASSEMBLY (includes item 27)	1
3	C 23527	LINER - hood	1
4	C 22023	HINGE - frame	2
5	C 18733	PIN - attachment	2
6	131- 1318	NUT - lock 1/2" NF	2
7	353- 406	PLUG - hole (models without hydraulic lift)	1
8	C 18153	CHANNEL - instrument panel	1
9	C 16362	ROD - hood hinge	1
10	132- 46	PIN - cotter 1/8" x 3/4"	1
11	C 16373	PIN - latch	2
12	C 24137	SPRING - latch	2
13	138- 98	PIN - roll 3/16" x 1-1/4"	2
14	C 25317	PAD - foot rest, L.H.	1
14	C 25318	PAD - foot rest, R.H.	1
15	113- 113	BOLT - 5/16" x 7/8" N.C. hex	4
16	192- 20	LOCKWASHER - 5/16"	4
17	C 14729	SPACER - frame, rear (444).	2
17	C 14730	SPACER - frame, rear (220, 222 and 224)	2
18	192- 23	LOCKWASHER - 1/2"	4
19	113- 424	BOLT - 1/2" x 1" N.C. hex	4
20	C 24821	SHIELD - heat	1
21	C 24820	CLIP - battery hold down	1
22	113- 1	BOLT - 1/4" - 20 x 1/2	9
23	192- 19	LOCKWASHER - 1/4"	5
24	129- 101	NUT - 1/4" - 20	5
25	C 24822*	COVER - access	1
25	C 25496**	COVER - access	1
26	193- 57	LOCKWASHER	4
27	C 16361	HING - hood	1

†also use C26266, C26265, C26264, 195-533,
138-63 and 132-310 before S/N
220 - 14005097
222 - 14006533
224 - 14007681
444 - 14009126

*use 220 - before S/N 9779774
222 - before S/N 9781310
224 - before S/N 9782979
444 - before S/N 9784373

**use 220 - S/N 9779774 and after
222 - S/N 9781310 and after
224 - S/N 9782979 and after
444 - S/N 9784373 and after



SEAT, FENDERS AND TOOL TRAY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 26066	SUPPORT - seat, front	1
2	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	2
4	113- 118	BOLT - 5/16" x 5/8"	1
5	192- 20	LOCKWASHER - 5/16"	1
5	192- 23	LOCKWASHER - 1/2"	4
6	C 19417*	TRAY - tool	1
7	C 16429	PIN - seat hinge	1
8	C 26214	SEAT - (220, 222 and 224)	1
8	C 26215	SEAT - (444)	1
9	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) use before S/N 9766840	1
15	C 16445	FENDER - R.H. (444) use before S/N 9766840	1
15	C 25303	FENDER - L.H. (444) use S/N 9766840 and after.	1
15	C 25304	FENDER - R.H. (444) use S/N 9766840 and after.	1
16	C 25297	FENDER - L.H. (use 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195 and after)	1
16	C 25298	FENDER - R.H. (use 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195 and after)	1
16	C 16446	FENDER - L.H. (use before 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195)	1
16	C 16447	FENDER - R.H. (use before 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195)	1
17	C 16393	LEVER - shift	1
18	195- 525	WASHER - 7/16 x 1-1/4" OD	1
19	C 17216	SPRING - shift lever	1
20	C 17066	WASHER - cupped	1
21	131- 1181	NUT - lock 3/8" NC hex	1
22	C 14728	GRIP - shift lever	1
23	C 26028**	TRAY - tool	1
24	C 26029**	HINGE - seat.	1

*use before S/N:

220 - 9780394

222 - 9782118

224 - 9783605

444 - 9785020

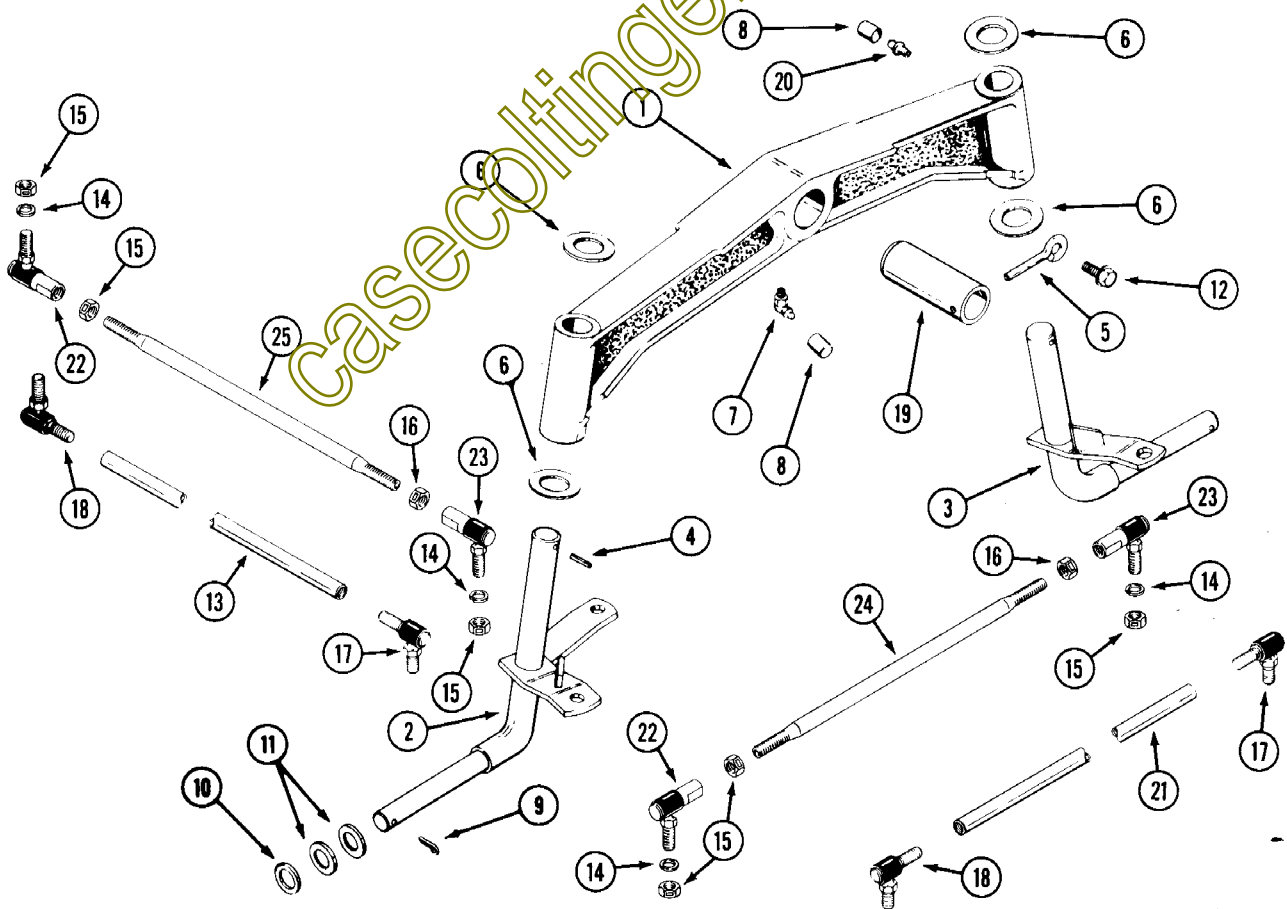
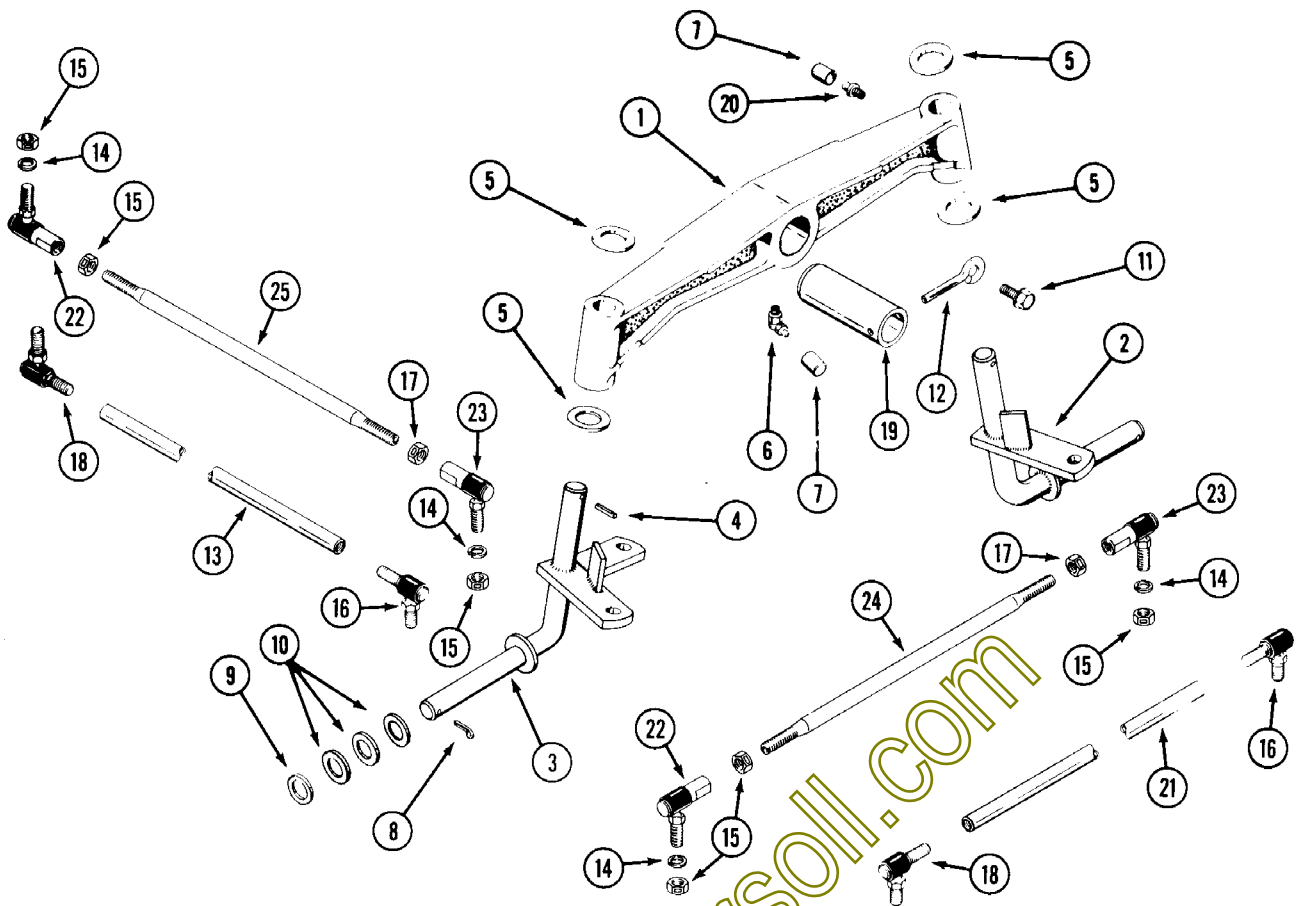
**use S/N and after:

220 - 9780394

222 - 9782118

224 - 9783605

444 - 9785020



220, 222 AND 224 FRONT AXLE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18812	AXLE - front	1
2	C 18777	SPINDLE - left hand	1
3	C 18779	SPINDLE - right hand	1
4	138- 99	PIN - roll	2
5	C 11906	WASHER - thrust	4
6	219- 404	FITTING - lube	1
7	C 13106	COVER - lube fitting	3
8	132- 311	PIN - cotter 5/32 x 1-1/4"	2
9	C 12975	WASHER - wheel spindle	2
10	A 30881	WASHER - wheel spacer	6
11	187- 1910	BOLT - 3/8" NC indented hex head	1
12	C 22278	PIN - retaining, axle pivot	1
13	C 22992*	KIT - drag link rod	1
14	192- 23	LOCKWASHER - 1/2" zinc plated	3
15	129- 165	NUT - jam 1/2" N.F. hex R.H. thread	6
16	C 21527*	BALL JOINT - 1/2" L.H. thread	2
17	129- 365	NUT - jam 1/2" N.F. hex L.H. thread	2
18	C 21526*	BALL JOINT - R.H. thread	2
19	C 22568	TUBE - axle pivot	1
20	219- 17	FITTING - lube	2
21	C 21530*	TIE ROD	1
22	C 12102**	BALL JOINT - R.H. thread	2
23	C 13605**	BALL JOINT - L.H. thread	2
24	C 25856**	TIE ROD	1
25	C 25857**	ROD - drag link	1

*use before S/N:

220 - 9780558

222 - 9782235

224 - 9783760

**use S/N and after:

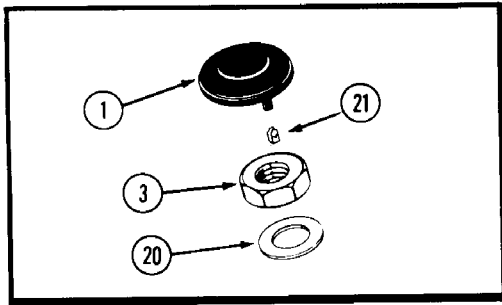
220 - 9780558

222 - 9782235

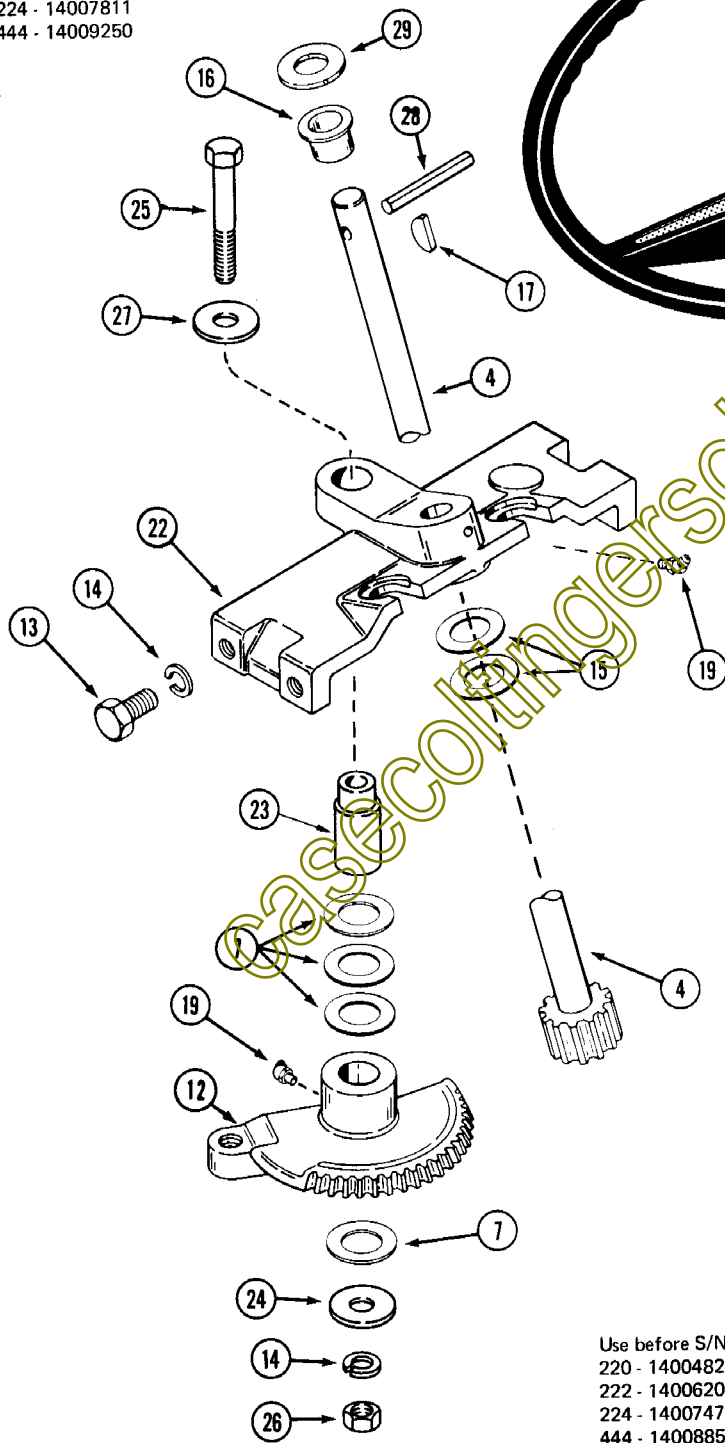
224 - 9783760

444 FRONT AXLE

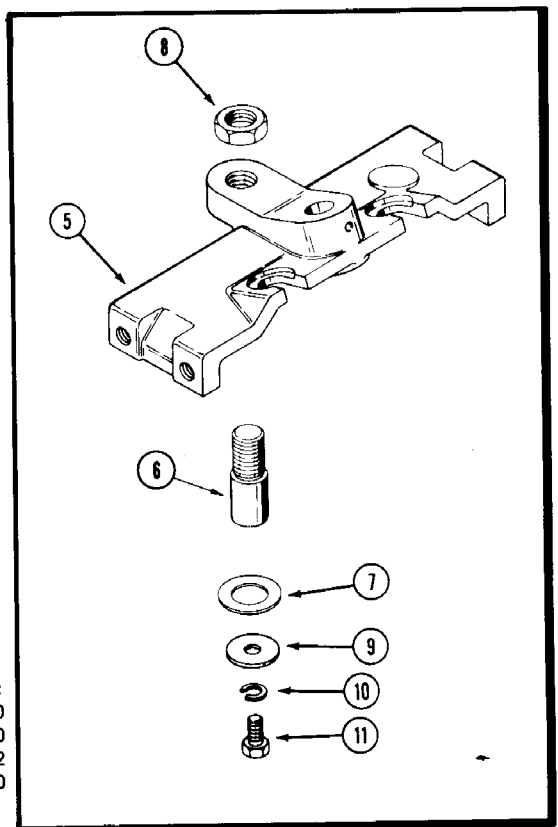
1	C 18813	AXLE - front	1
2	C 26205	SPINDLE - right hand	1
3	C 26206	SPINDLE - left hand	1
4	138- 99	PIN - roll	2
5	C 22278	PIN - retaining, axle pivot	1
6	C 13716	WASHER - thrust	4
7	219- 404	FITTING - lube	1
8	C 13106	COVER - lube fitting	3
9	132- 311	PIN - cotter 5/32 x 1-1/4"	2
10	C 12975	WASHER - wheel spindle	2
11	A 30881	WASHER - wheel spacer	4
12	187- 1910	BOLT - 3/8" NC indented hex head	1
13	C 22992	KIT - drag link rod (use before S/N 9785170)	1
14	192- 23	LOCKWASHER - 1/2" zinc plated	3
15	129- 165	NUT - jam 1/2" N.F. hex R.H. thread	6
16	129- 365	NUT - jam 1/2" N.F. hex L.H. thread	2
17	C 21527	BALL JOINT - L.H. thread (use before S/N 9785170)	2
18	C 21526	BALL JOINT - R.H. thread (use before S/N 9785170)	2
19	C 22568	TUBE - axle pivot	1
20	219- 17	FITTING - lube	2
21	C 21529	TIE ROD - (use before S/N 9785170)	1
22	C 12102	BALL JOINT - R.H. thread (use after S/N 9785170)	2
23	C 13605	BALL JOINT - L.H. thread (use after S/N 9785170)	2
24	C 25855	TIE ROD - (use after S/N 9785170)	1
25	C 25857	ROD - drag link (use after S/N 9785170)	1



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



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



STEERING GEAR

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 16945	CAP - steering wheel	1
2	C 18014*	WHEEL - steering	1
2	C 26325**	WHEEL - steering	1
3	131- 1113	NUT - lock 5/8" Gripco.	1
4	C 16200*	SHAFT - steering	1
4	C 26326**	SHAFT - steering	1
5	NSS	SUPPORT - steering gear (use items 14, 22, 23, 24, 25, 26 and 27)	1
6	C 14200	PIN - pivot	1
7	C 14201	WASHER - shim.	4
8	129- 148	NUT - jam 3/4"	1
9	195- 2021	WASHER	1
10	192- 20	LOCKWASHER - 5/16" zinc plated.	1
11	113- 102	BOLT - 5/16" x 3/4" NC hex	1
12	C 18711	GEAR - steering.	1
13	113- 206	BOLT - 3/8" x 3/4" NC hex.	4
14	192- 21	LOCKWASHER - 3/8"	5
15	195- 2069	WASHER - 5/8" zinc plated.	2
16	C 15096	BUSHING - flanged nylon	1
17	126- 16	KEY - Woodruff 3/16" x 3/4" (early production)	1
18	C 24098	TUBE - steering	1
19	219- 404	FITTING - lube 45°	2
20	C 12975	WASHER - 5/8"	2
21	C 18017	CLIP - tinnerman	2
22	C 25788	SUPPORT - steering gear	1
23	C 25787	PIN - pivot	1
24	195- 2029	WASHER - 7/16" x 1.25	2
25	113- 241	BOLT - 3/8" - 16 x 3" hex	1
26	129- 103	NUT - 3/8" - 16 hex	1
27	195- 126	WASHER - 1-1/8" O.D.	1
28	133- 143	PIN - roll 1/4" x 2-1/4"	1
29	195- 541	WASHER - 5/8"	1
	C 13106	COVER - lube fitting	2

*use before S/N:

220 - 14005231

222 - 14006712

224 - 14007811

444 - 14009250

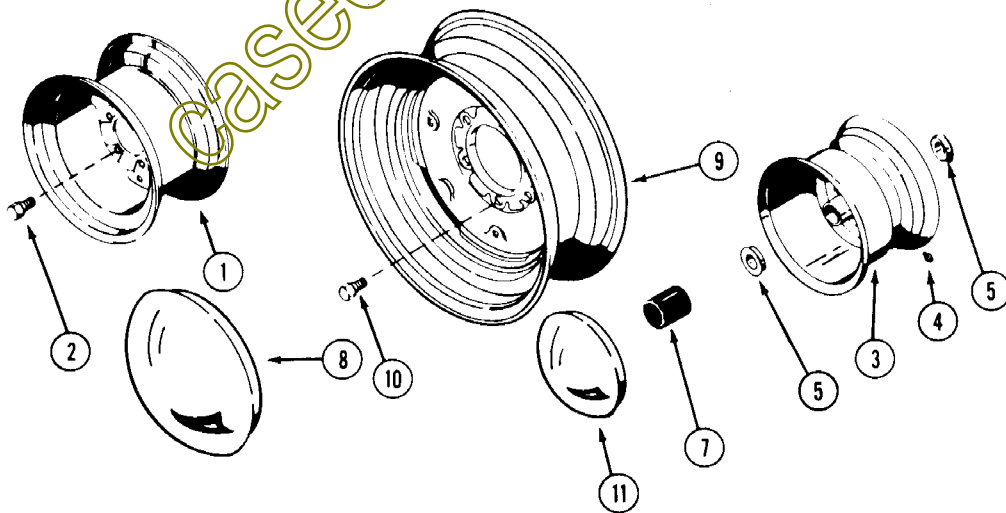
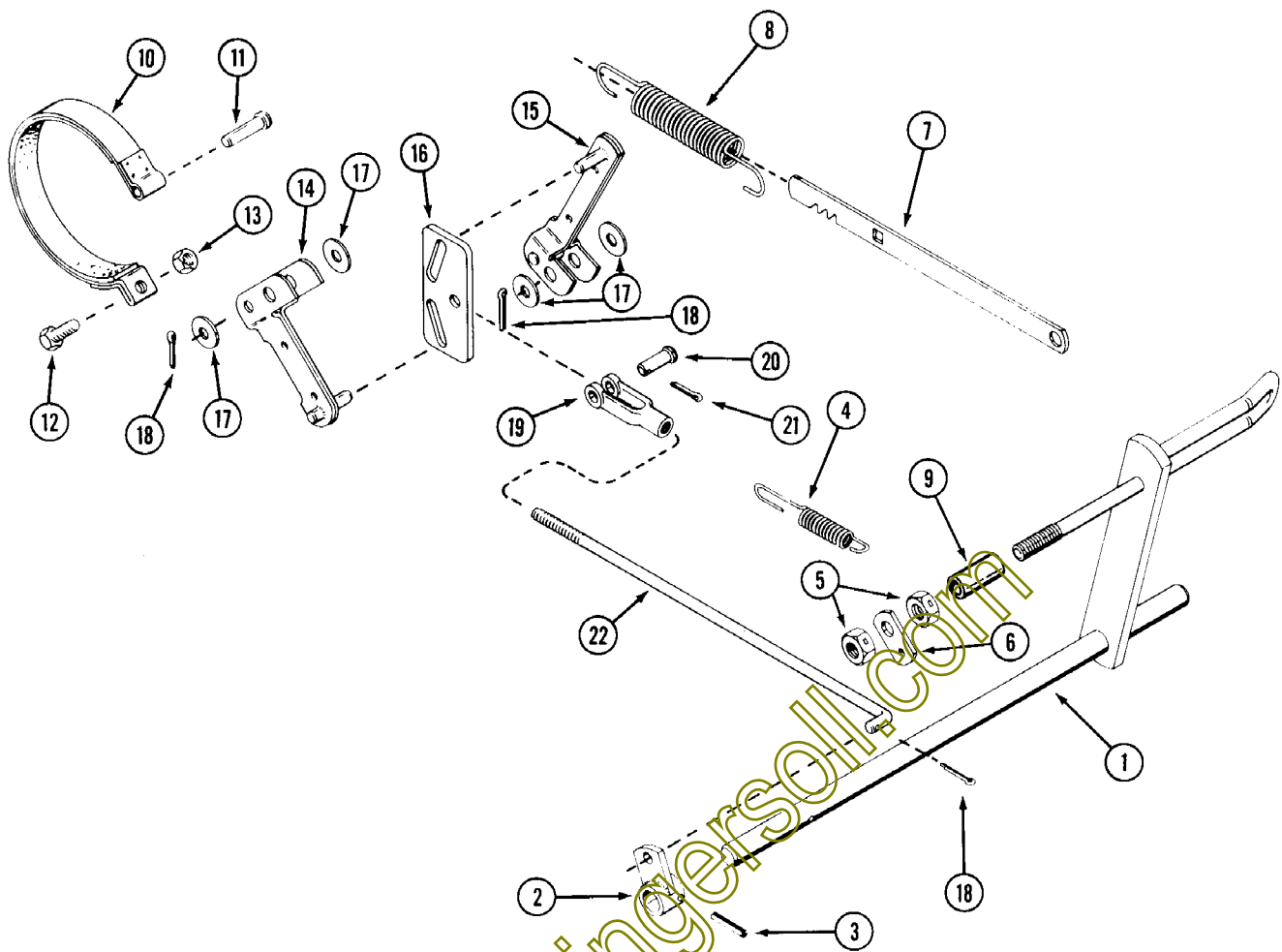
**use S/N and after:

220 - 14005231

222 - 14006712

224 - 14007811

444 - 14009250

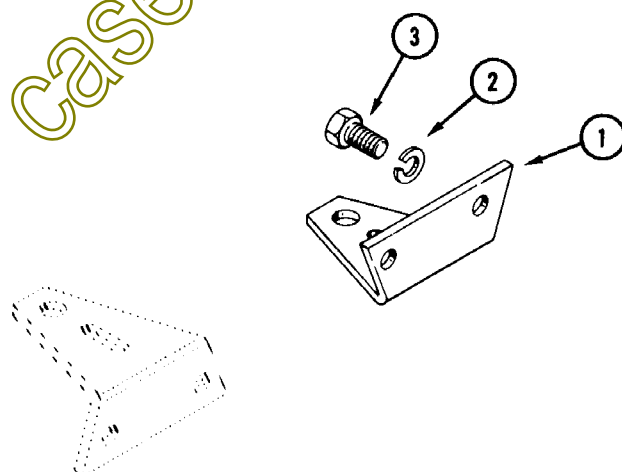
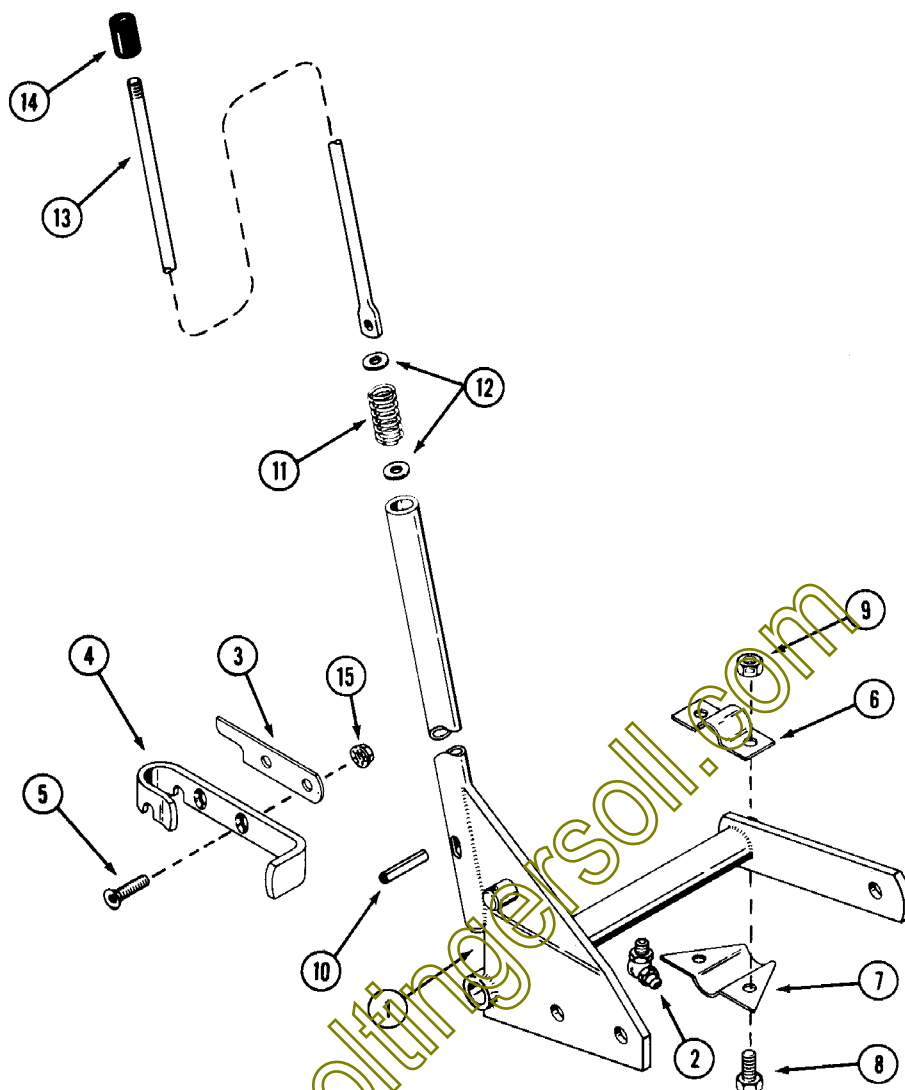


BRAKE ASSEMBLY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 21872	PEDAL - brake actuating	1
2	C 19183	ARM - brake pedal	1
3	138- 2073	PIN - spirol 3/16" x 1-1/4"	1
4	C 25022	SPRING - return.	1
5	131- 1308	NUT - centerlock, jam	2
6	C 16164	TAB - lift	1
7	C 18147	LEVER - brake lock.	1
8	C 16379	SPRING - brake lock	1
9	C 21857	SPACER - brake pedal	1
10	C 23909	BAND - brake.	1
11	C 23910	PIN - clevis	1
12	113- 2262	BOLT - 3/8" - 16 x 1-1/2" hex	1
13	129- 143	NUT - 3/8" - 16 jam.	1
14	C 23899	ARM - brake.	1
15	C 24761	ARM - brake (includes adjustment nut)	1
16	C 23883	GUIDE - brake actuation	1
17	195- 533	WASHER - .531 I.D.	4
18	132- 310	PIN - cotter 1/8" x 1"	3
19	213- 4	CLEVIS	1
20	141- 4	PIN - clevis	1
21	132- 321	PIN - cotter	1
22	C 24796	ROD - brake (use before 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195).	1
22	C 24795	ROD - brake (444) use before S/N 9766840	1
22	C 25305	ROD - brake (use 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195 and after)	1
22	C 25306	ROD - brake (444) use S/N 9766840 and after	1

FRONT AND REAR WHEELS

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



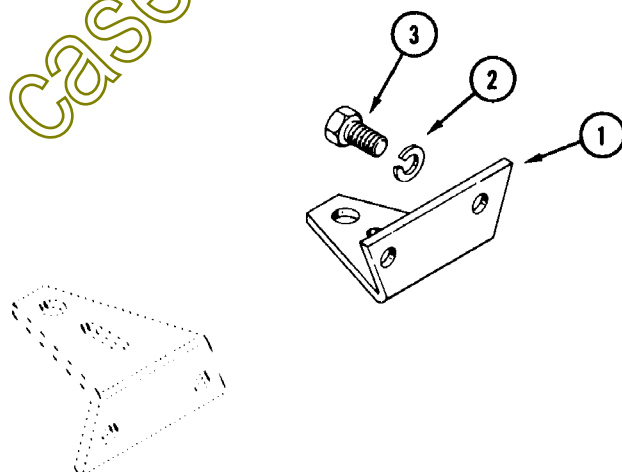
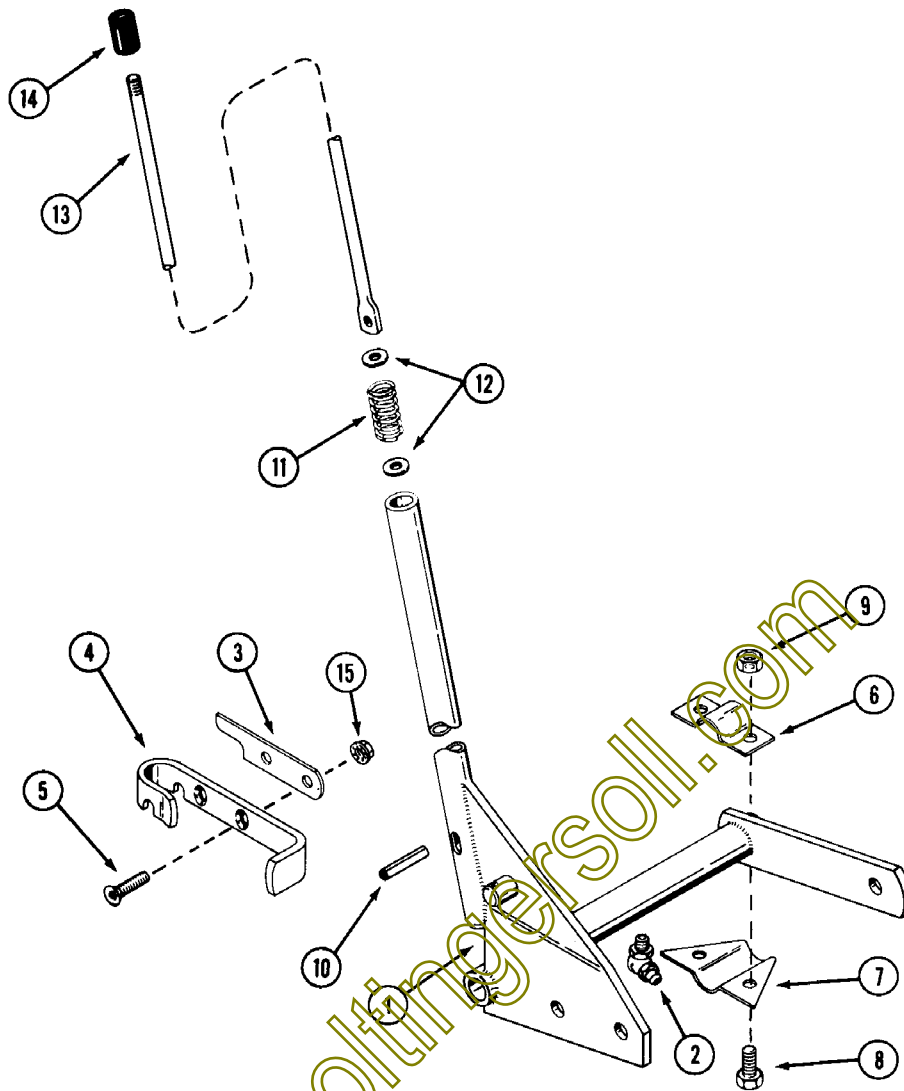
MOUNTING POSITION FOR 220, 222 AND 224 TRACTORS.

BRAKE ASSEMBLY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 21872	PEDAL - brake actuating	1
2	C 19183	ARM - brake pedal	1
3	138- 2073	PIN - spirol 3/16" x 1-1/4"	1
4	C 25022	SPRING - return	1
5	131- 1308	NUT - centerlock, jam	2
6	C 16164	TAB - lift	1
7	C 18147	LEVER - brake lock	1
8	C 16379	SPRING - brake lock	1
9	C 21857	SPACER - brake pedal	1
10	C 23909	BAND - brake	1
11	C 23910	PIN - clevis	1
12	113- 2262	BOLT - 3/8" - 16 x 1-1/2" hex	1
13	129- 143	NUT - 3/8" - 16 jam	1
14	C 23899	ARM - brake	1
15	C 24761	ARM - brake (includes adjustment nut)	1
16	C 23883	GUIDE - brake actuation	1
17	195- 533	WASHER - .531 I.D.	4
18	132- 310	PIN - cotter 1/8" x 1"	3
19	213- 4	CLEVIS	1
20	141- 4	PIN - clevis	1
21	132- 321	PIN - cotter	1
22	C 24796	ROD - brake (use before 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195)	1
22	C 24795	ROD - brake (444) use before S/N 9766840	1
22	C 25305	ROD - brake (use 220 - S/N 9762275, 222 - S/N 9763700, 224 - S/N 9765195 and after)	1
22	C 25306	ROD - brake (444) use S/N 9766840 and after	1

FRONT AND REAR WHEELS

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



MOUNTING POSITION FOR 220, 222 AND 224 TRACTORS.

TRANSMISSION AND FINAL DRIVE

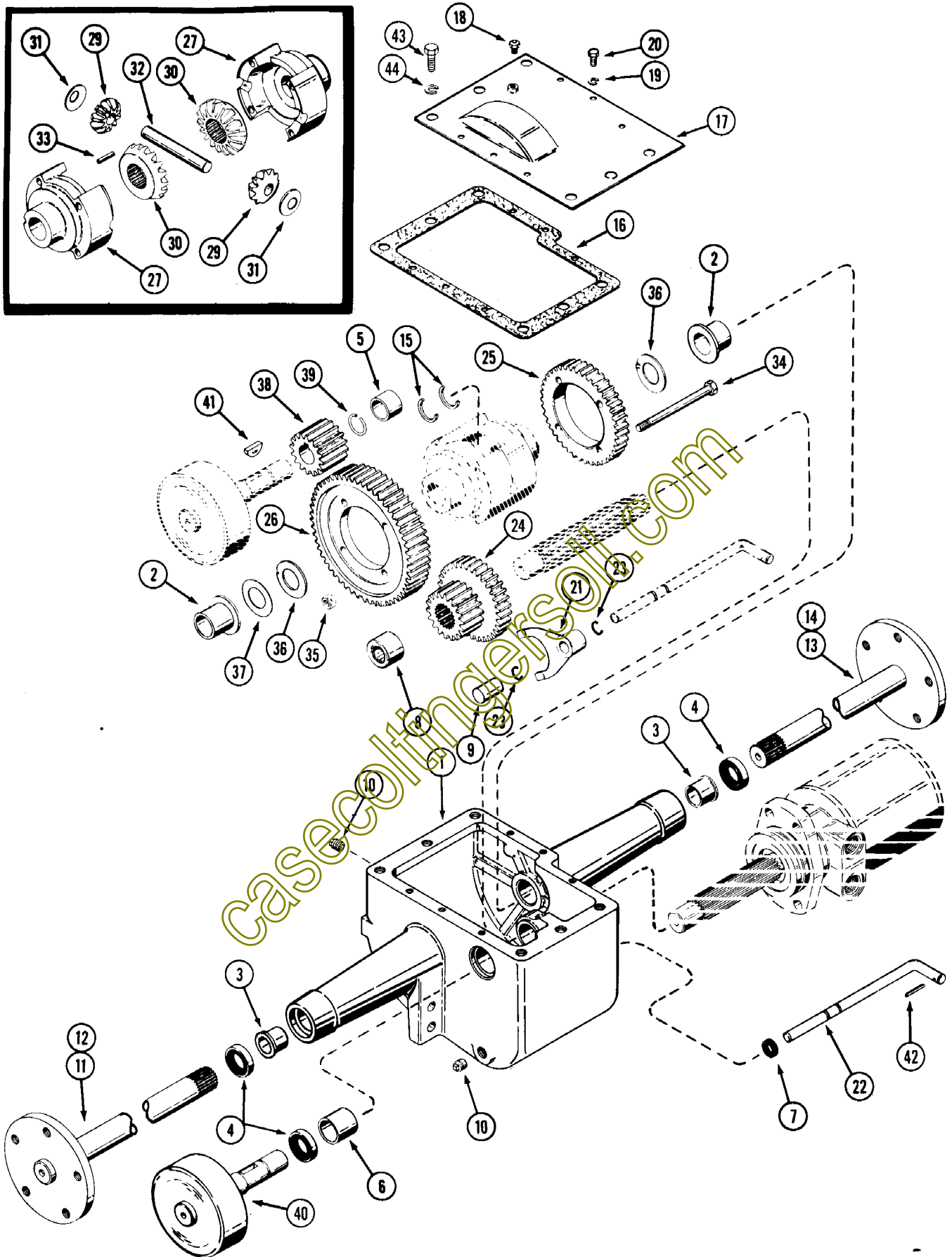
220 - USED PRIOR TO S/N 9748634

222 - USED PRIOR TO S/N 9750308

224 - USED PRIOR TO S/N 9751888

444 - USED PRIOR TO S/N 9753175

REF.	PART NO.	DESCRIPTION	REQ'D
1	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
	C 24192	KIT - differential pinion and side gear	1
29	NSS	GEAR - differential pinion	2
30	NSS	GEAR - differential	2
31	C 12559	WASHER - pinion thrust	2
32	C 12560	PIN - differential cross	1
33	R 17820	PIN - differential cross lock	1
34	C 24853	SCREW - 3/8 x 5" NF hex cap	4
35	131- 366	NUT - lock 3/8" NF 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 1-1/4"	1
43	113- 424	BOLT - 1/2" - 13 x 1" hex	4
44	192- 23	LOCKWASHER - 1/2"	4



TRANSMISSION AND FINAL DRIVE

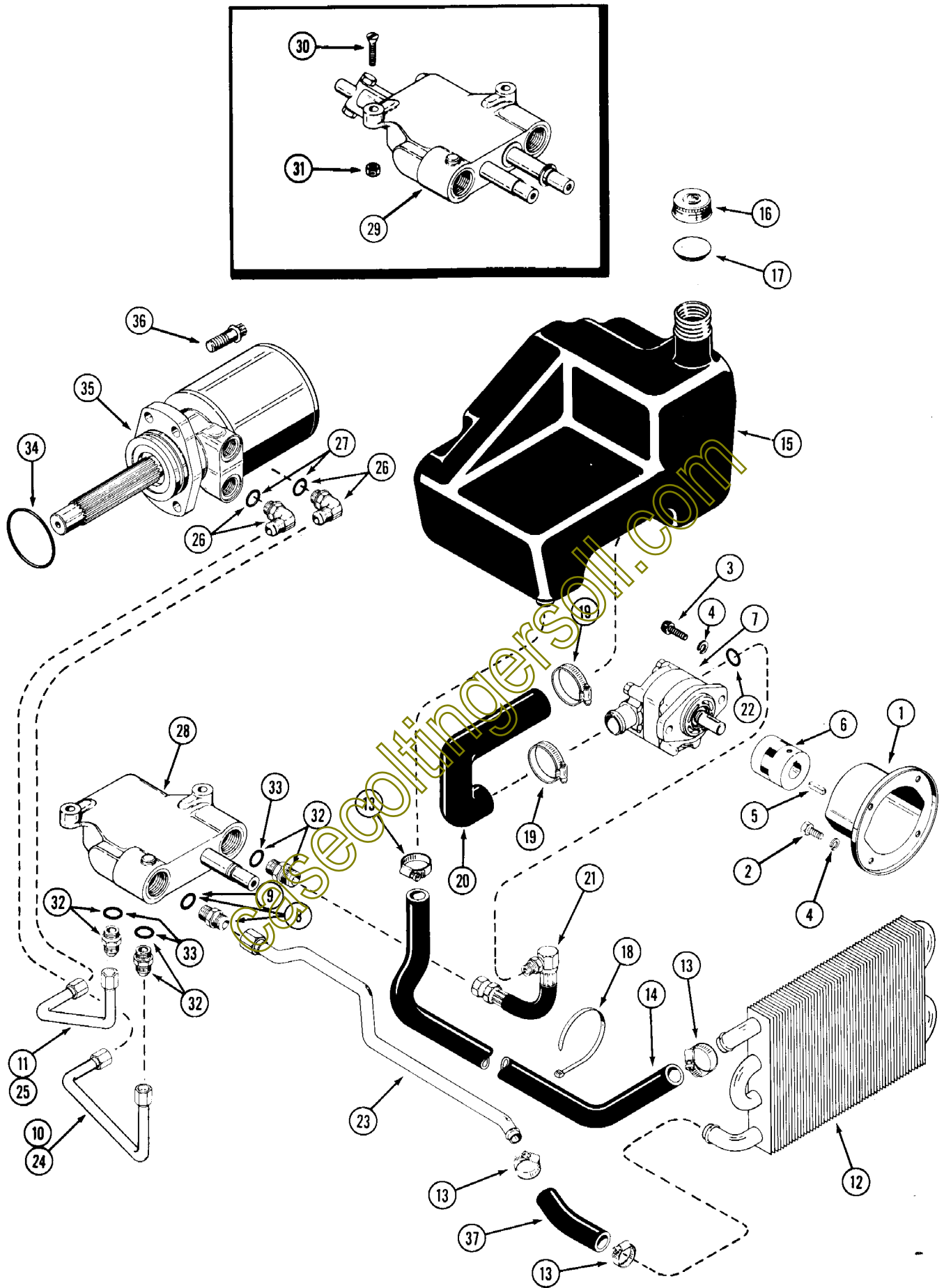
220 - USED S/N 9748634 AND AFTER

222 - USED S/N 9750308 AND AFTER

224 - USED S/N 9751888 AND AFTER

444 - USED S/N 9753175 AND AFTER

REF.	PART NO.	DESCRIPTION	REQ'D
	C 24843	CASE ASSEMBLY - transmission	1
1	NSS	CASE - transmission.	1
2	C 12713	BEARING - flange	2
3	C 24804	BEARING - flange	2
4	C 24803	SEAL - shaft	3
5	C 13241	BEARING - sleeve	1
6	C 13385	BEARING - sleeve	1
7	C 13266	SEAL - shift rod.	1
8	F 7232	BEARING - roller	1
9	C 12723	CAP - shift rod.	1
10	221- 4	PLUG - 1/2" filler and drain	2
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 24802	ROD - gear shift.	1
23	C 14168	RING - retaining	2
24	C 14644	GEAR - cluster input.	1
25	C 12551	GEAR - high 41 tooth	1
26	C 12552	GEAR - low 55 tooth	1
27	C 16295	KIT - diff. case (includes Ref. 34 and 35)	1
	C 24192	KIT - differential pinion and side gear	1
29	NSS	GEAR - differential pinion.	2
30	NSS	GEAR - differential	2
31	C 12559	WASHER - pinion thrust	2
32	C 12560	PIN - differential cross	1
33	R 17820	PIN - differential cross lock	1
34	C 24853	SCREW - 3/8 x 5" NF hex cap	4
35	131- 366	NUT - lock 3/8" NF 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 1-1/4"	1
43	113- 424	BOLT - 1/2" - 13 x 1" hex	4
44	192- 23	LOCKWASHER - 1/2"	4



TRANSMISSION AND FINAL DRIVE

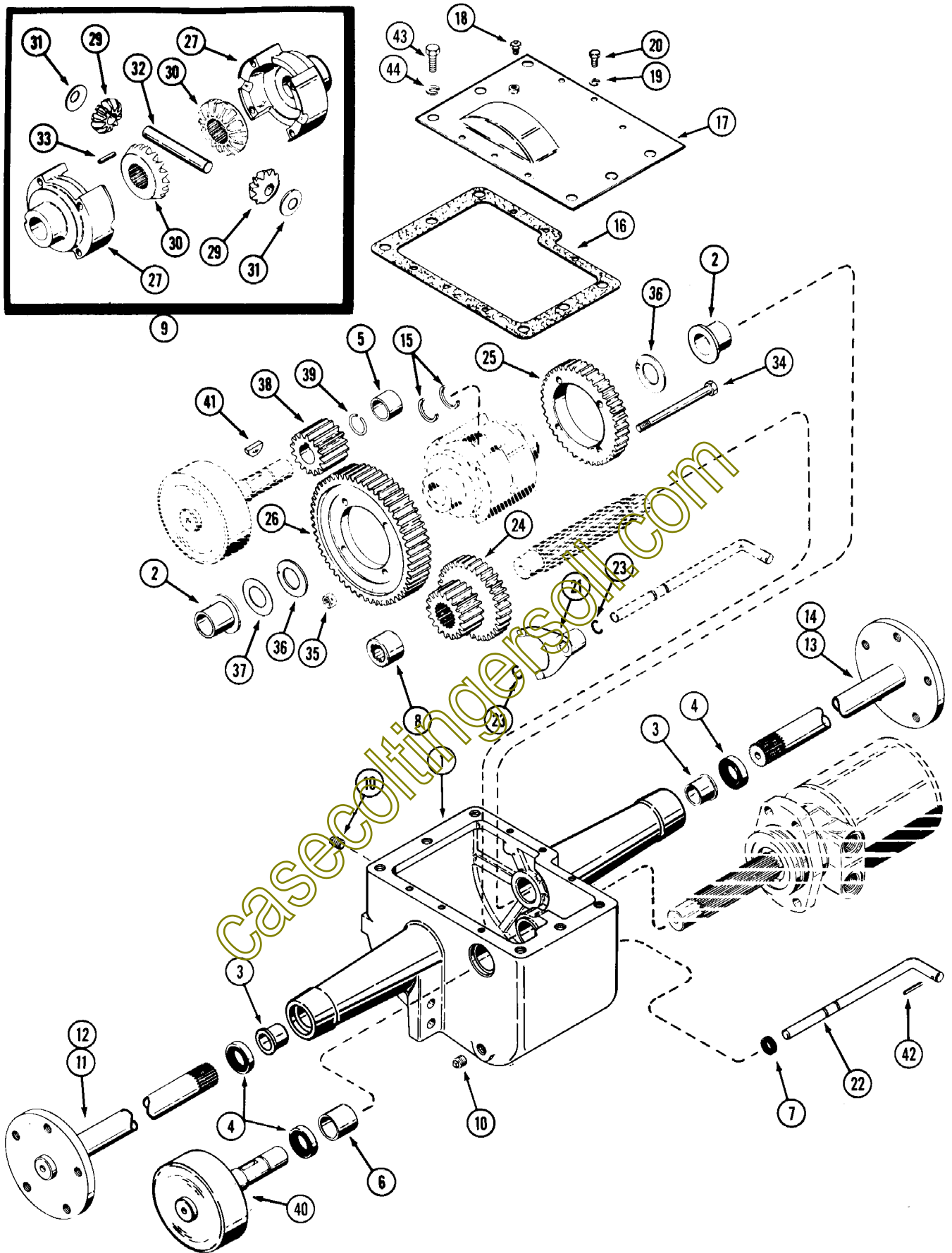
220 - USED PRIOR TO S/N 9748634

222 - USED PRIOR TO S/N 9750308

224 - USED PRIOR TO S/N 9751888

444 - USED PRIOR TO S/N 9753175

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	CASE - transmission (use C24843 and C24802)	1
2	C 12713	BEARING - flange	2
3	C 16744	BEARING - flanged	2
4	D 31945	SEAL - axle	3
5	C 13241	BEARING - sleeve	1
6	C 13385	BEARING - sleeve	1
7	221- 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	NSS	KIT - diff. case (includes Ref. 34 and 35)	1
29	NSS	GEAR - differential pinion	2
30	NSS	GEAR - differential	2
31	NSS	WASHER - pinion thrust	2
32	NSS	PIN - differential cross	1
33	NSS	PIN - differential cross lock	1
34	28- 680	SCREW - 3/8 x 5" NF hex cap	4
35	131- 1232	NUT - lock 3/8" NF hex	4
36	C 12718	WASHER - differential	2
37	C 14223	WASHER - spacer	UAR
38	C 25254	GEAR - brake idler (also use C25258)	1
39	C 14222	RING - retainer, brake idler	1
40	C 25258	BRAKE DRUM - (also use C25254)	1
41	126- 128	KEY - Woodruff, brake idler	1
42	138- 98	PIN - roll 3/16 x 1-1/4"	1
43	113- 424	BOLT - 1/2" - 13 x 1" hex	5
43	166- 86	BOLT - 1/2" - 13 x 1-1/4" flanged	1
44	192- 23	LOCKWASHER - 1/2"	4
45	C 25177	DIFFERENTIAL ASSEMBLY	1



HYDRAULIC PUMP AND COUPLING

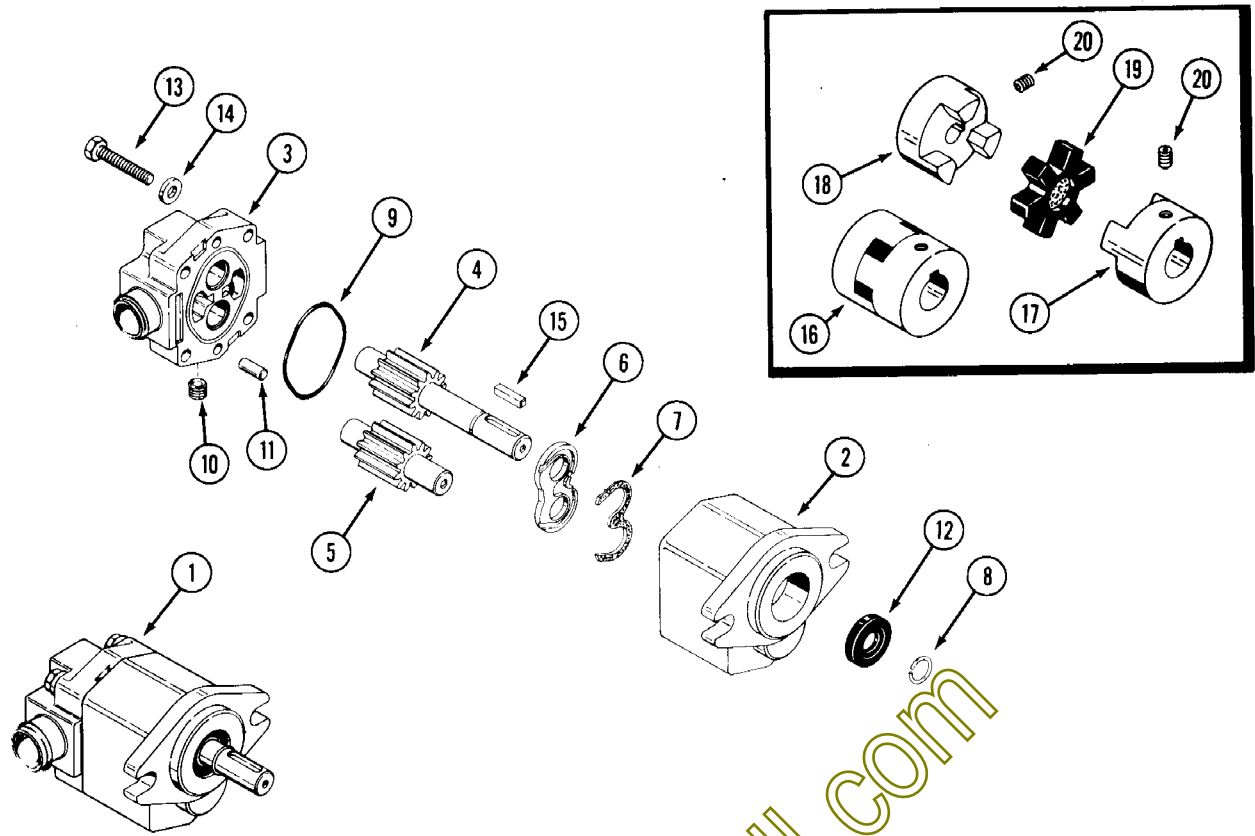
(FOR 220 S/N 9748821 TO 9749036 SEE PAGE 51B)

(FOR 222 S/N 9750516 TO 9750723 SEE PAGE 51B)

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24828	PUMP - hyd. 9/16" shaft	1
2	C 15729	PIN - dowel	2
3	C 24861	COVER - rear	1
4	C 15731	GEAR ASSEMBLY - driven	1
5	C 15732	"O" RING - cover	2
6	C 15733	BODY - pump	1
7	C 15734	COVER - front	1
8	C 15735	SEAL - shaft	1
9	NSS	GEAR ASSEMBLY - drive	1
	C 24862	SHAFT - drive	1
	C 24863	GEAR - drive	1
	C 24864	KEY - gear	1
	C 24865	RING - retaining	2
10	C 15737	PLATE - wear	1
11	C 15738	SHIELD - heat	1
12	C 15739	GASKET	1
13	C 15740	SEAL	1
14	13- 540	BOLT	4
15	C 24866	KEY - 3/16" square	1
16	C 19115	WASHER	4
17	C 20058	COUPLING - pump (220 and 222)	1
17	C 20059	COUPLING - pump (224 and 444)	1
18	NSS	HUB - (order item 17)	1
19	NSS	HUB - (order item 17)	1
20	83- 55	SCREW - set 5/16" x 5/16" NC socket head	2
21	A 70112	SPIDER - (for C 20058 coupling)	1
21	C 15036	SPIDER - (for C 20059 coupling)	1

HEAT EXCHANGER MOUNTS AND MUFFLER SHIELDS

1	C 22894	SUPPORT - heat exchanger	1
2	113- 118	BOLT - 5/16" x 5/8"	4
3	C 22778	SHIELD - heat, muffler	1
4	113- 1	BOLT - 1/4" x 1/2" hex z.p.	2
5	C 22903	PAD - insulation	1
6	C 22874	RETAINER - insulation	1
7	C 14246	BRACKET - heat exchanger L.H.	1
8	C 22790	BRACKET - heat exchanger R.H.	1
9	187- 1252	SCREW - 1/4" x 1-1/2" N.C. flat hd. Phillips	3

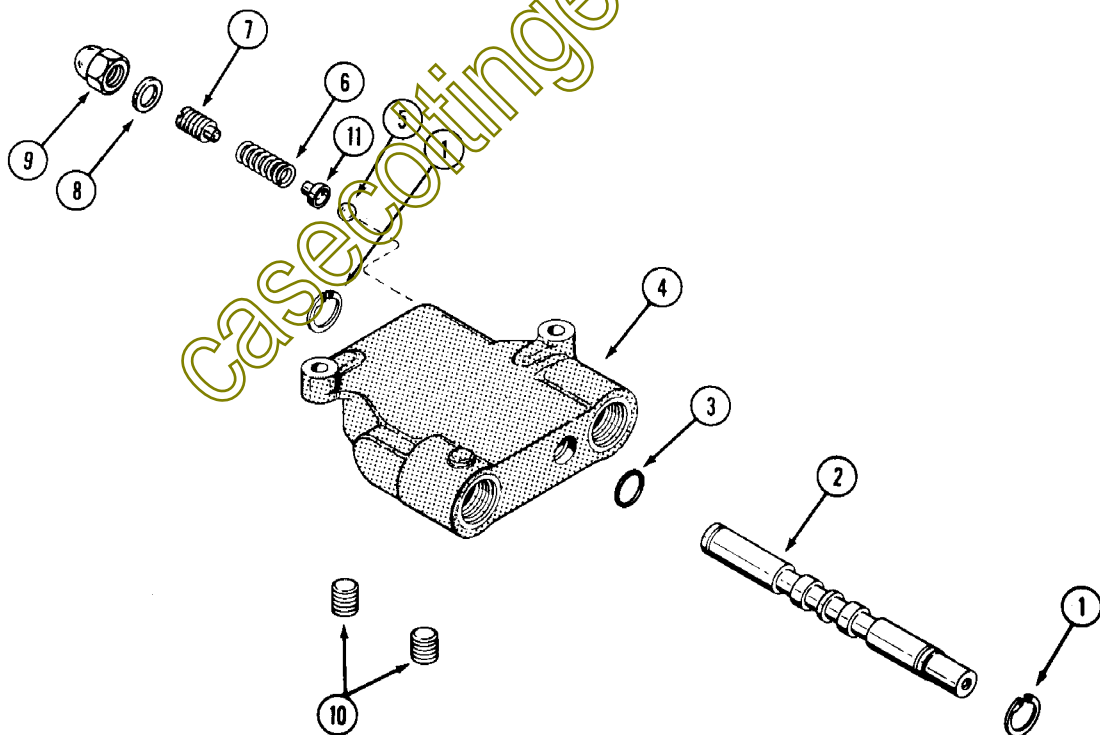
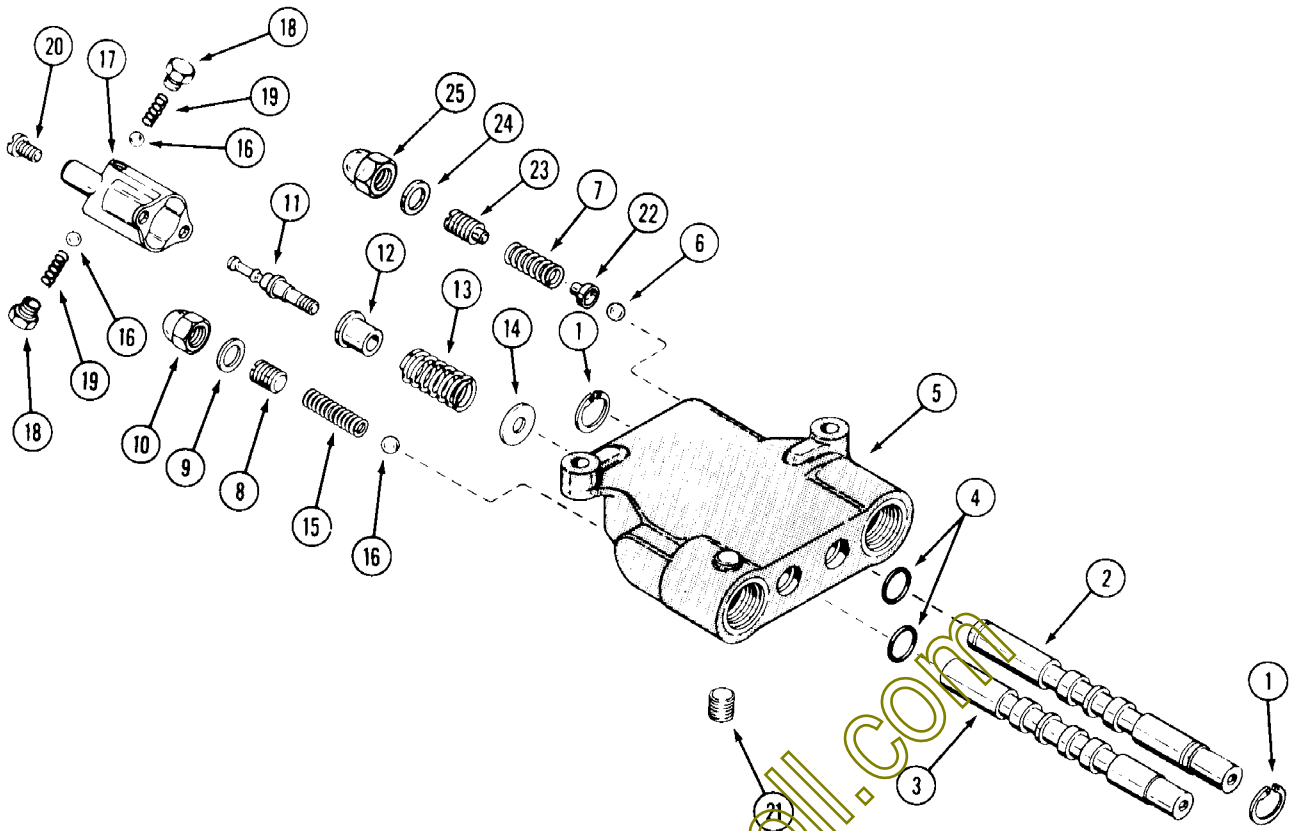


HYDRAULIC PUMP AND COUPLING

(USED 220 S/N 9748821 TO 9749036)

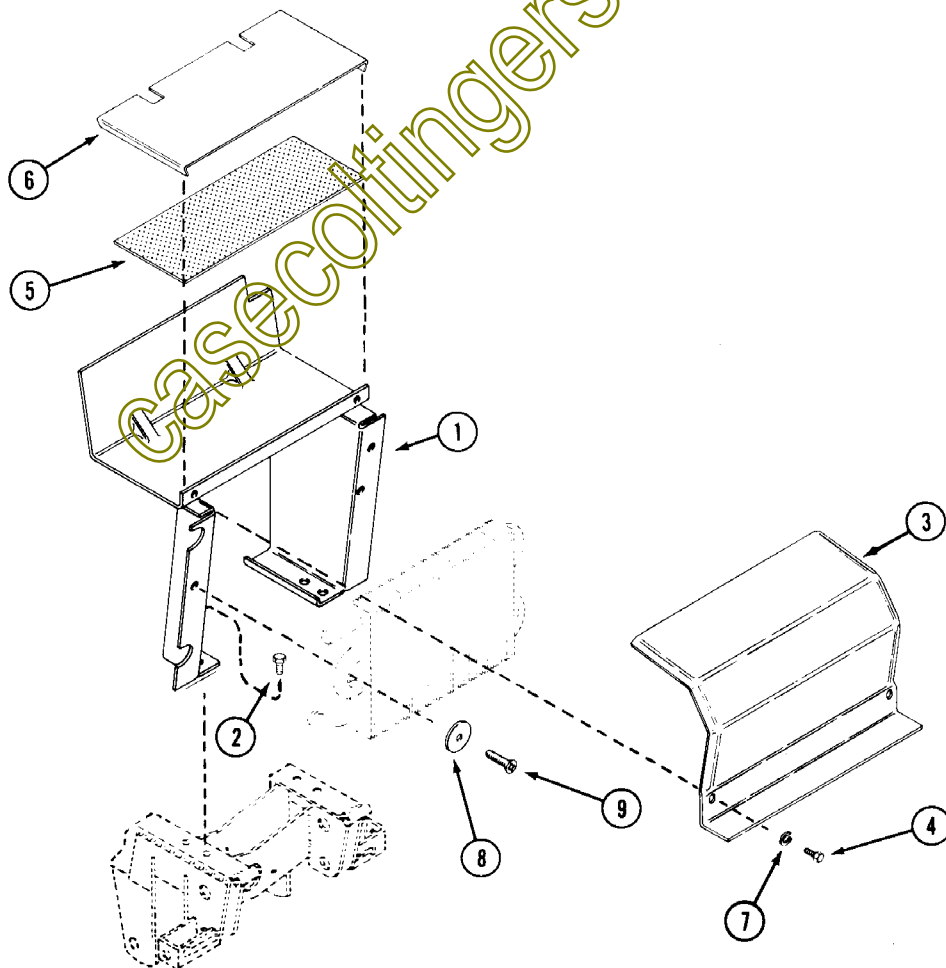
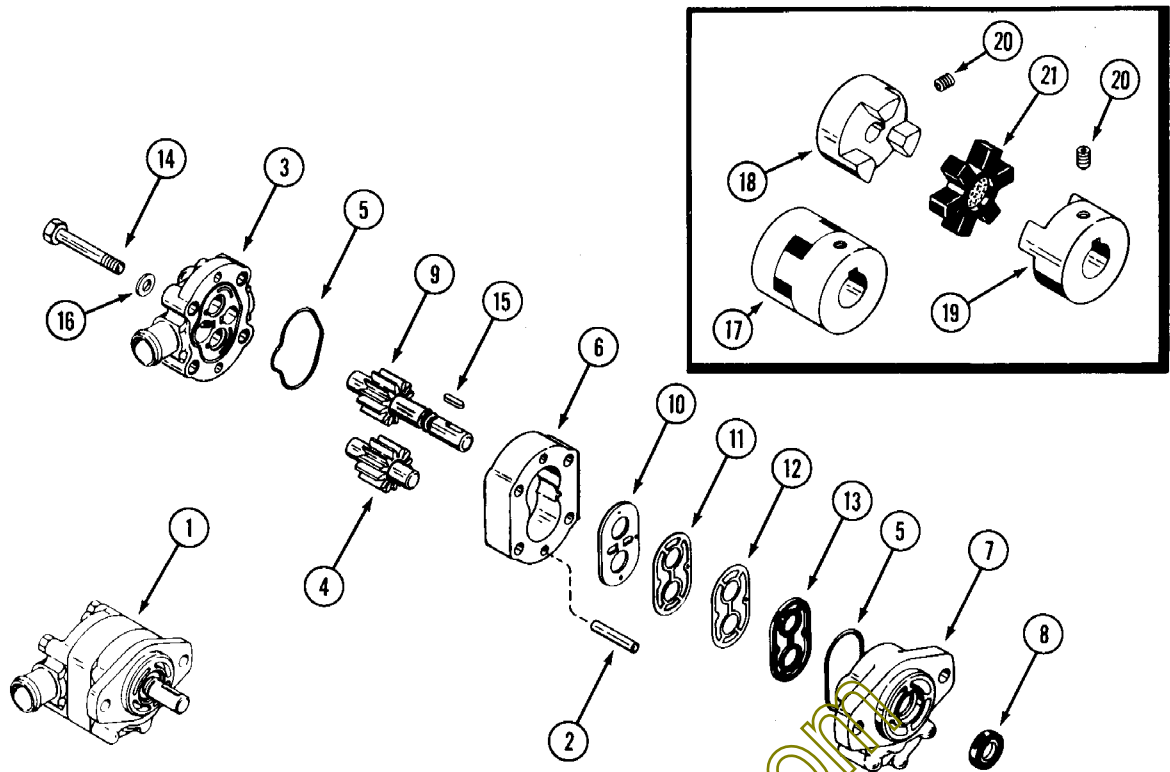
(USED 222 S/N 9750516 TO 9750723)

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PUMP - hyd. 9/16" shaft (order C24828 pump)	1
2	C 20456	BODY - pump	1
3	NSS	COVER ASSEMBLY - pump (order C24828 pump)	1
4	C 20460	GEAR - drive, pump	1
5	C 20461	GEAR - driven, pump	1
6	C 20462	PLATE - wear	1
7	NSS	SEAL AND RETAINER - wear plate (order C24334 Kit)	1
8	A 35690	RING - retaining	1
9	NSS	SEAL - "O" Ring (order C24334 Kit)	1
10	221- 849	PLUG - pipe	1
11	D 58188	PIN - dowel	2
12	NSS	SEAL - shaft (order C24334 Kit)	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 20455	KEY - square 3/16" x 13/16"	1
16	C 20058	COUPLING - 220, 222	1
17	NSS	HUB - coupling (order item 16)	1
18	NSS	HUB - coupling (order item 16)	1
19	A 70112	SPIDER - (for C20058 coupling)	1
20	83- 55	SETSCREW - 5/16" x 5/16" N.C. soc. hd.	2
	C 24334	KIT - seal (includes items 7, 9 and 12)	1



HYDRAULIC SYSTEM

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 15335	SUPPORT - pump mounting	1
2	113- 206	BOLT - 3/8" x 3/4" NC hex. support mounting	4
3	62- 616	BOLT - 3/8" x 1" NF hex soc. hd., pump mounting	2
4	192- 21	LOCKWASHER - 3/8" zinc plated	6
5	W 5063-S	KEY - square 1/4" x 3/4" (engine shaft)	1
6	C 25207	COUPLING - pump, 9/16" shaft (220, 222) (See page 55 or 57)	1
6	C 25208	COUPLING - pump, 9/16" shaft (224, 444) (See page 55 or 57)	1
6	C 15726	COUPLING - pump, 1/2" shaft (220, 222) repairs page 55.	1
6	C 17298	COUPLING - pump, 1/2" shaft (224, 444) repairs page 55.	1
7	C 26278	PUMP - hydraulic, 1/2" shaft (repairs page 55 or 57)	1
7	C 24828	PUMP - hyd. 9/16" shaft (repairs page 55 or 57)	1
8	218- 5065	FITTING - hyd. 3/4" x 7/8" "O" Ring	1
9	218- 5007	"O" RING - 5/8" (for C17263 fitting)	1
10	C 16794	TUBE - valve to lower motor port (220, 222 and 224)	1
11	C 16793	TUBE - valve to upper motor port (220, 222 and 224).	1
12	C 22769	EXCHANGER - heat	1
13	214- 254	CLAMP - hose	4
14	D 55911	HOSE - rubber, tank to heat exchanger.	1
15	C 24818	RESERVOIR - hydraulic oil	1
16	C 25237	CAP - reservoir (includes insert).	1
17	NSS	INSERT - reservoir cap	1
18	L 76746	TIE - hose clamp	2
19	C 23326	CLAMP - hose	2
20	C 24827	HOSE - suction	1
21	C 18797	HOSE - hydraulic, pump to valve.	1
22	218- 5006	"O" RING - 1/2" (for C18797)	1
23	C 26182	TUBE - valve to heat exchanger	1
24	C 16687	TUBE - valve to lower motor port (444) (use before S/N 9766840)	1
24	C 25333	TUBE - valve to lower motor port (444) (use S/N 9766840 and after)	1
25	C 25334	TUBE - valve to upper motor port (444) (use S/N 9766840 and after)	1
25	C 17898	TUBE - valve to upper motor port (444) (use before S/N 9766840)	1
26	218- 5107	FITTING - motor port, 90° elbow, "O" Ring	2
27	218- 5007	"O" RING - 5/8" (for 218-5107 fitting)	2
28	NSS	VALVE - hydraulic control, single spool (220, 222) (repairs page 59)	1
29	C 25967	VALVE - hydraulic control, two spool (all models with hydraulic lift) (repairs page 59)	1
30	182- 246	SCREW - 5/16" x 1-1/4" N.C.	2
31	131- 351	NUT - lock 5/16" N.C. hex	2
32	218- 5062	FITTING - hydraulic valve 5/8" x 7/8" "O" Ring	3
33	218- 5007	"O" RING - 5/8"	3
34	A 30095	SEAL - motor to transmission	1
35	C 16697	MOTOR - hydraulic (220, 222 and 224) (repairs page 61)	1
35	C 14655	MOTOR - hydraulic (444) (repairs page 61)	1
36	166- 86	SCREW - 1/2" x 1-1/4" N.C. flanged 12 pt.	4
37	NSS	HOSE - rubber, 4" (use C22902)	1



HYDRAULIC PUMP AND COUPLING (PARKER-HANNIFIN)

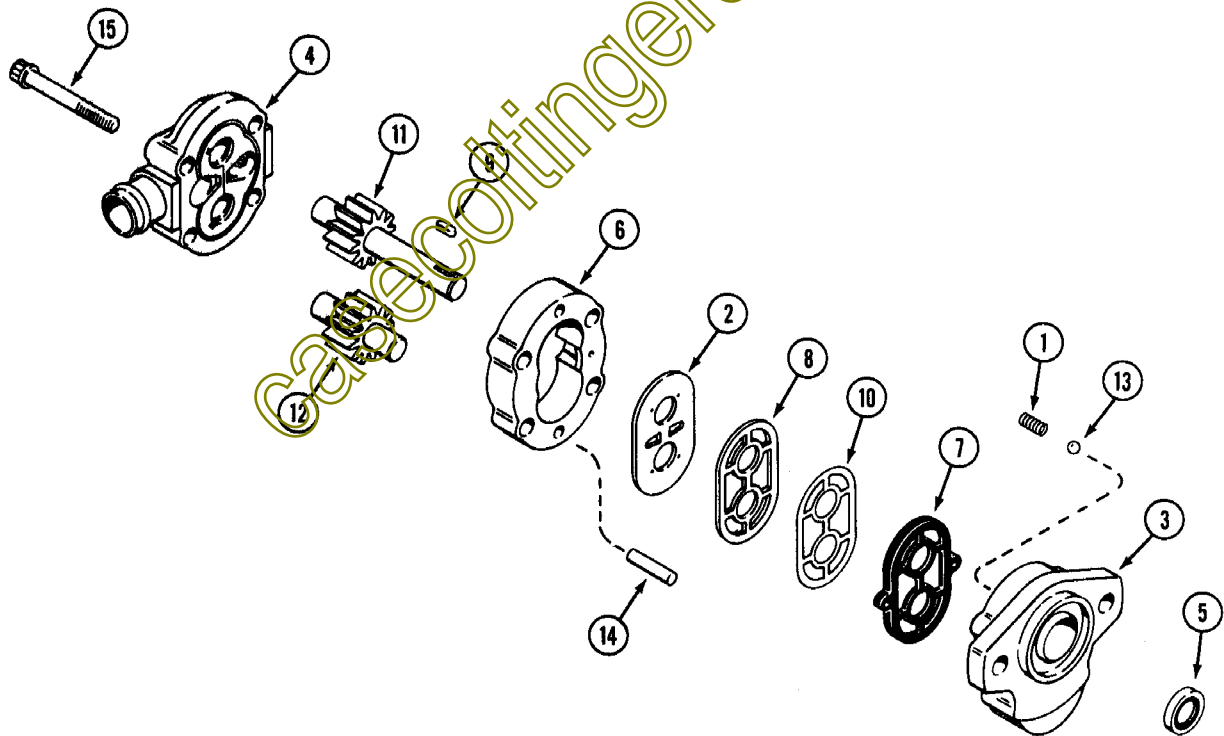
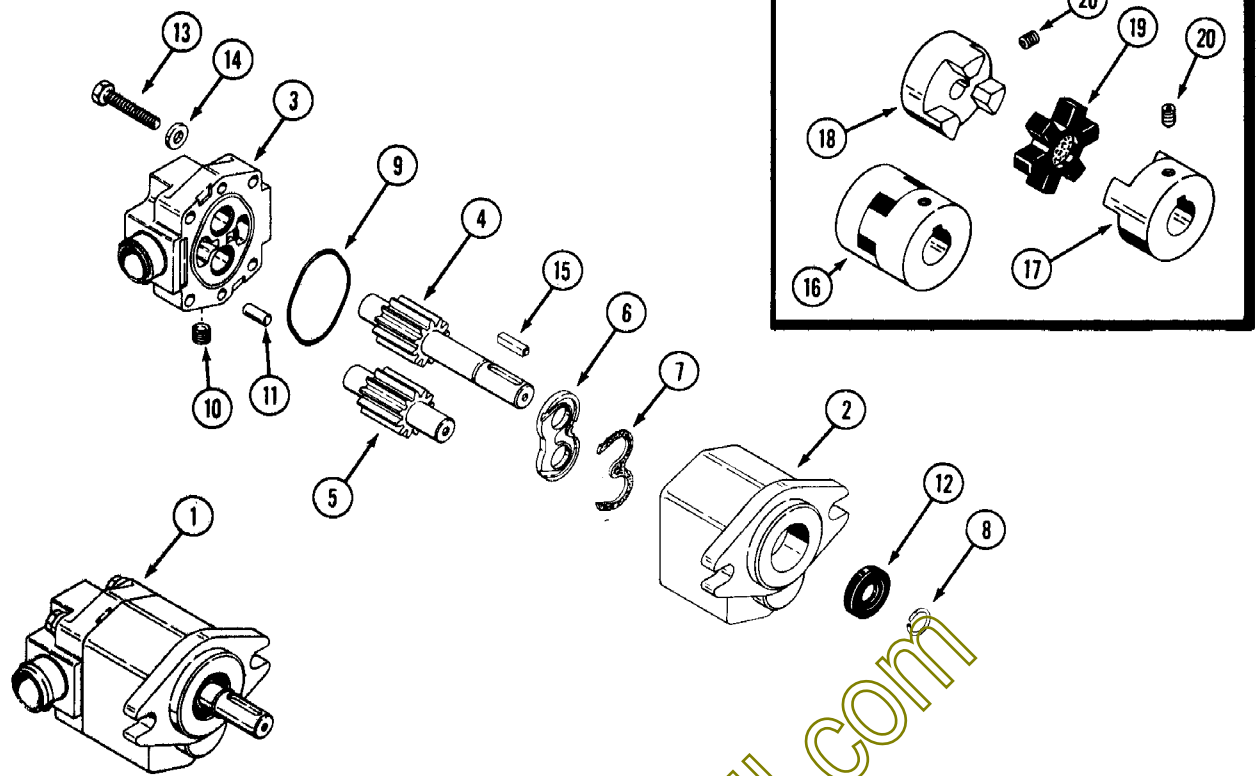
(FOR 220 S/N 9748821 TO 9749036 SEE PAGE 51B)

(FOR 222 S/N 9750516 TO 9750723 SEE PAGE 51B)

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24828	PUMP - hyd. 9/16" shaft	1
2	F 53109	PIN - dowel	2
3	C 24861	COVER - rear	1
4	C 15731	GEAR ASSEMBLY - driven	1
5	C 15732	"O" RING - cover	2
6	C 15733	BODY - pump	1
7	C 15734	COVER - front	1
8	C 15735	SEAL - shaft	1
9	NSS	GEAR ASSEMBLY - drive	1
	C 24862	SHAFT - drive	1
	C 24863	GEAR - drive	1
	C 24864	KEY - gear	1
	C 24865	RING - retaining	2
10	C 15737	PLATE - wear	1
11	C 15738	SHIELD - heat	1
12	C 15739	GASKET	1
13	C 15740	SEAL	1
14	113- 111	BOLT	4
15	A 21075	KEY - 3/16" square	1
16	A 50773	WASHER	4
17	C 25207	COUPLING - pump (220 and 222)	1
17	C 25208	COUPLING - pump (224 and 444)	1
18	NSS	HUB - (order item 17)	1
19	NSS	HUB - (order item 17)	1
20	83- 55	SCREW - set 5/16" x 5/16" NC socket head	2
21	A 70112	SPIDER - (for C25207 coupling)	1
21	C 15036	SPIDER - (for C25208 coupling)	1

HEAT EXCHANGER MOUNTS AND MUFFLER SHIELDS

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

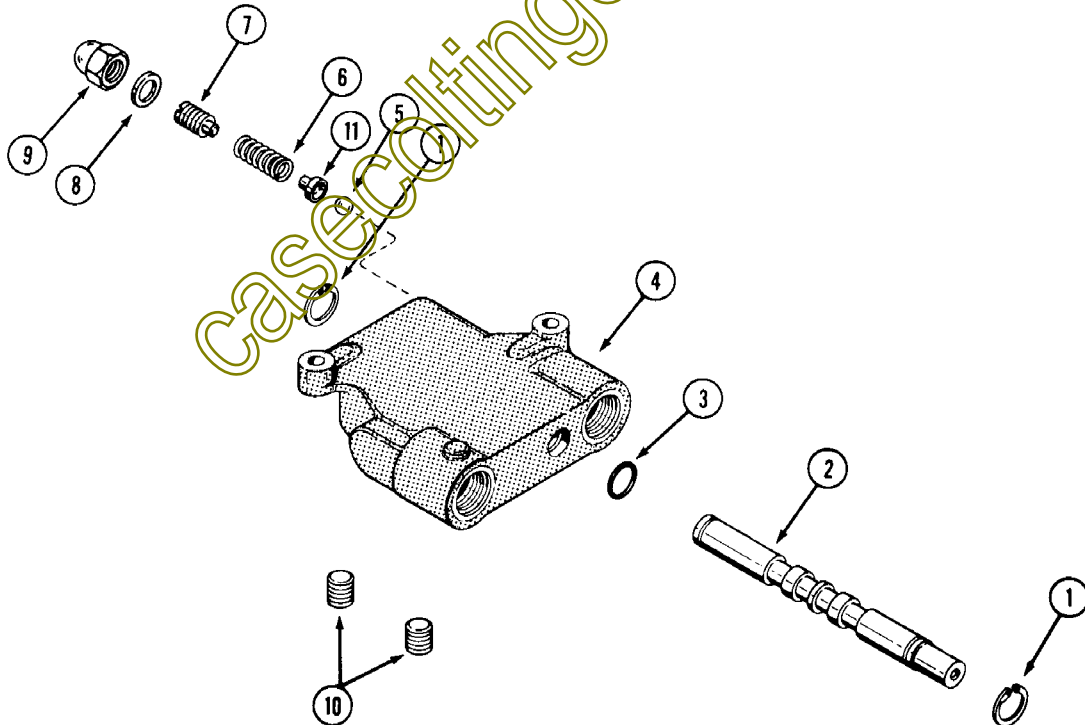
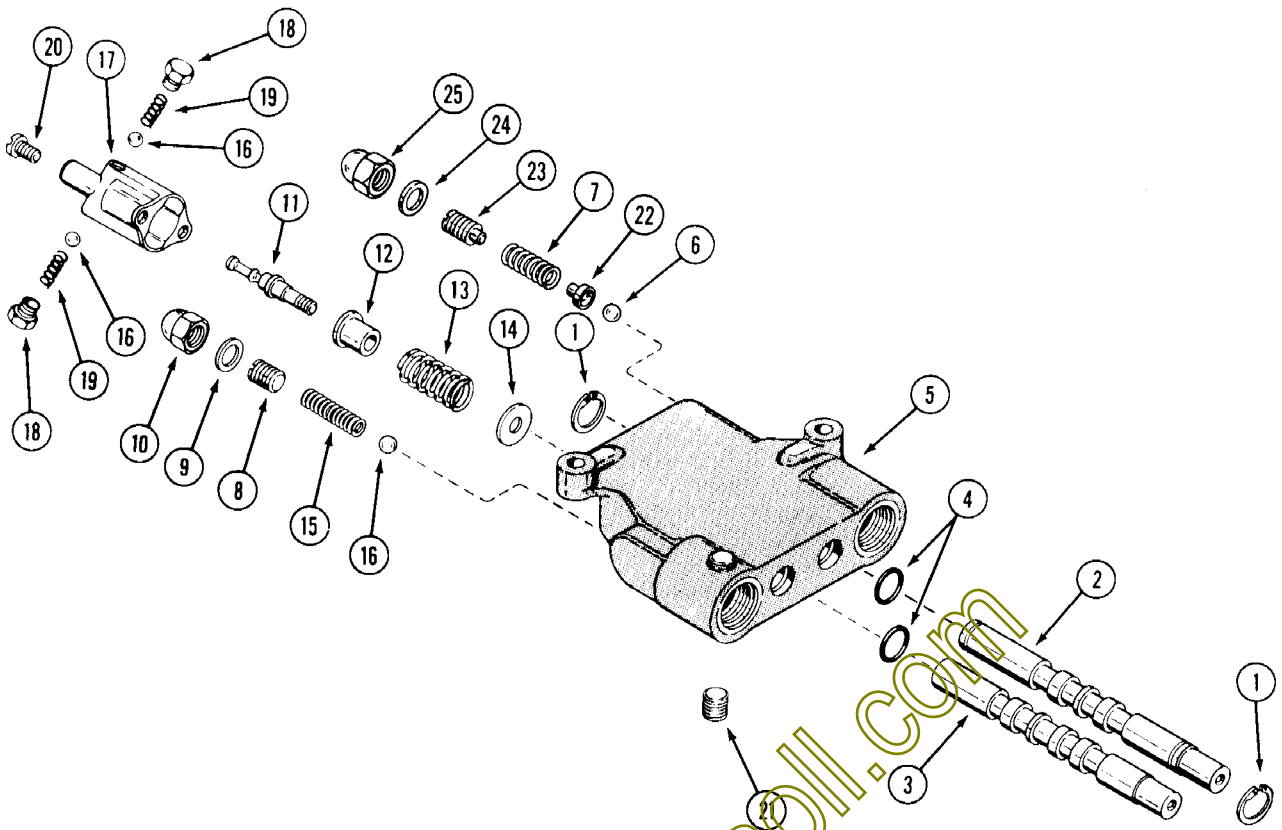


HYDRAULIC PUMP AND COUPLING
(BORG-WARNER)
(USED 220 S/N 9748821 TO 9749036)
(USED 222 S/N 9750516 TO 9750723)

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	PUMP - hyd. 9/16" shaft (order C24828 pump)	1
2	C 20456	BODY - pump	1
3	NSS	COVER ASSEMBLY - pump (order C24828 pump)	1
4	C 20460	GEAR - drive, pump	1
5	C 20461	GEAR - driven, pump	1
6	C 20462	PLATE - wear	1
7	C 24070	SEAL - wear plate (included in C24334 Kit)	1
7	C 24071	SPACER - seal (included in C24334 Kit)	1
8	A 35690	RING - retaining	1
9	NSS	SEAL - "O" Ring (order C24334 Kit)	1
10	221- 849	PLUG - pipe	1
11	D 58188	PIN - dowel	2
12	C 20464	SEAL - shaft (included in C24334 Kit)	1
13	113- 5	BOLT - 1/4" x 1-1/2" NC hex, grade 5	4
14	D 58189	WASHER - 1/4"	4
15	C 20455	KEY - square 3/16" x 13/16"	1
16	C 25207	COUPLING - 220, 222	1
17	NSS	HUB - coupling (order item 16)	1
18	NSS	HUB - coupling (order item 16)	1
19	A 70112	SPIDER - coupling	1
20	83- 55	SETSCREW - 5/16" x 5/16" N.C. soc. hd.	2
	C 24334	KIT - seal (includes items 7, 9 and 12)	1

HYDRAULIC PUMP (CESSNA)

REF.	PART NO.	DESCRIPTION	REQ'D
	NSS	PUMP - hyd. (9/16" shaft use C24828) (1/2" shaft use C26278)	1
1	F 9883	SPRING	2
2	FHO 40600	DIAPHRAGM - wear plate	1
3	NSS	COVER - front (9/16" shaft use C24828) (1/2" shaft use C26278)	1
4	NSS	COVER - rear (9/16" shaft use C24828) (1/2" shaft use C26278)	1
5	H 89540	SEAL - shaft	1
6	NSS	BODY - pump (9/16" shaft use C24828) (1/2" shaft use C26278)	1
7	H 218347	SEAL - diaphragm	1
8	H 218362	GASKET - back up	1
9	A 21075	KEY - 3/16" square x .609 (for 9/16" shaft)	1
9	C 19207	KEY - 1/2" square x 3/4" long (for 1/2" shaft)	1
10	H 218354	GASKET - protector	1
11	NSS	GEAR ASSEMBLY - drive (9/16" shaft use C24828) (1/2" shaft use C26278)	1
12	NSS	GEAR ASSEMBLY - driven (9/16" shaft use C24828) (1/2" shaft use C26278)	1
13	211- 306	BALL - steel 7/32"	2
14	H 755413	PIN - dowel 1/4" x 1-1/4"	2
15	166- 32	BOLT - 5/16" - 18 x 2-1/2" 12 pt. flange	4



ELECTRICAL SYSTEM

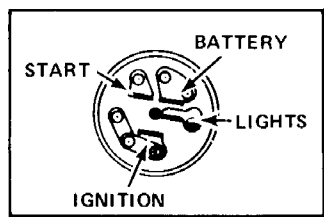
220 - use before S/N 9779977

222 - use before S/N 9781649

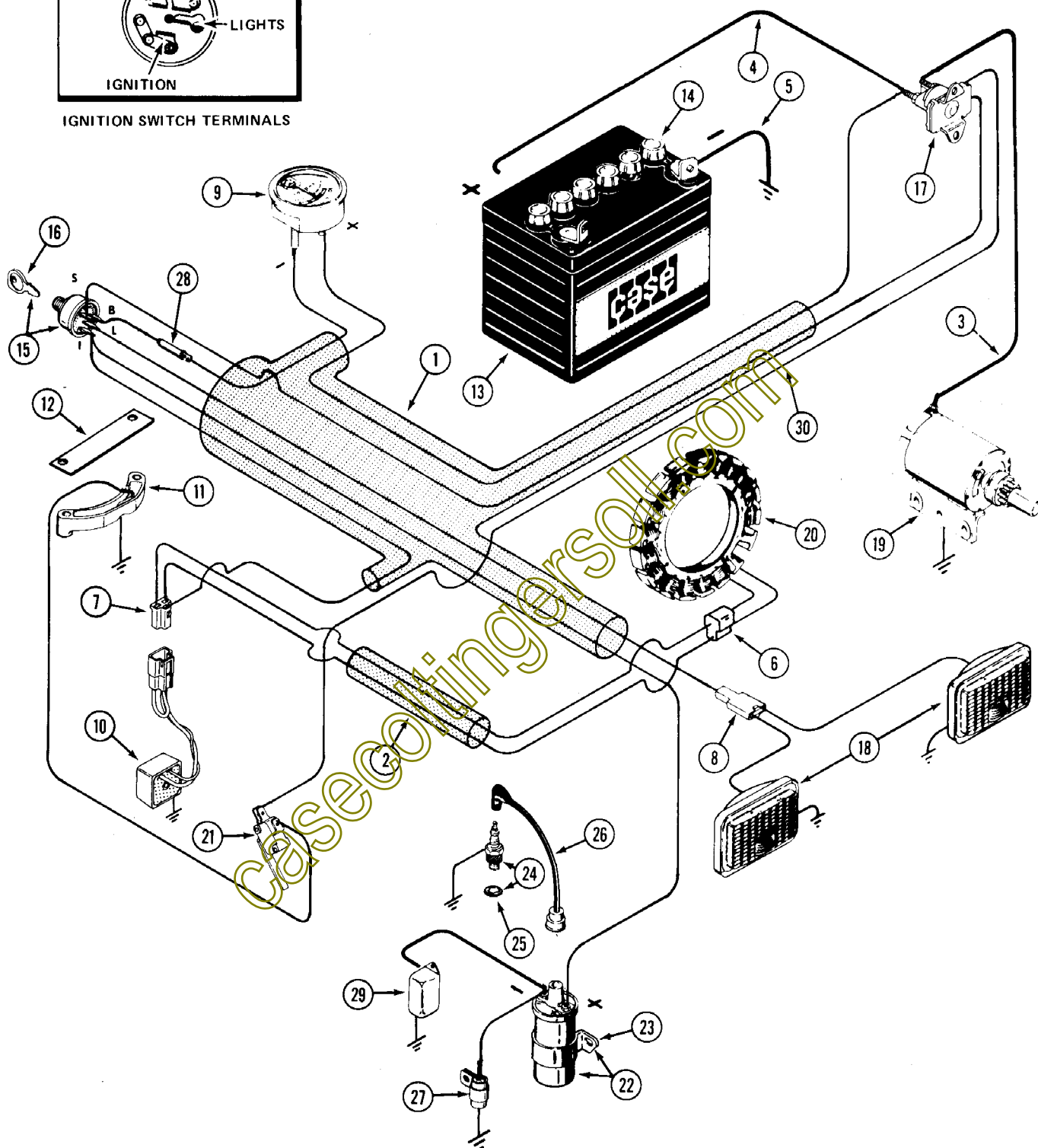
224 - use before S/N 9783251

444 - use before S/N 9784625

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24898	HARNESS - wire	1
2	C 24815	HARNESS - wire	1
3	C 24816	CABLE - solenoid to starter (black)	1
4	C 14565	CABLE - solenoid to battery positive (red)	1
5	C 23029	CABLE - battery negative to ground (black)	1
6	C 24813	CONNECTOR - stator	1
7	C 19378	CONNECTOR - rectifier (early production)	1
8	C 14537	CONNECTOR - lights	1
9	C 18389	AMMETER - 30 amps, 12v	1
10	C 21945	RECTIFIER - voltage, 12v (early production)	1
11	C 23002	SWITCH - neutral start (includes wire)	1
12	C 21989	INSULATOR - locator	1
13	C 18197	BATTERY - 12v	1
14	C 18113	CAP - battery	6
15	C 23010	SWITCH ASSEMBLY - ignition (includes key and lockwasher)	1
16	A 24509	KEY - ignition	1
17	C 14553	SOLENOID - start 12v	1
18	C 22571	HEADLAMP ASSEMBLY - 12v (repairs page 61)	2
19	C 24889	STARTER - bendix drive (repairs page 57)	1
20	V 34427	STATOR	1
21	C 24800	SWITCH - neutral start, PTO	1
22	KO 231281	COIL - ignition, 12v (includes bracket)	1
23	V 34435	BRACKET - coil mounting	1
24	C 24301	SPARK PLUG - (includes gasket)	1
25	A 27251	GASKET - spark plug	1
26	V 34433	KIT - high tension cable	1
27	KO 230722	CONDENSER	1
28	223- 20	FUSE - 20 amp (included in harness)	1
29	NSS	BREAKER CONTACT ASSEMBLY - ignition (repairs page 63)	1
30	C 24896	WIRE - solenoid to micro switch	1
31	C 25485	RECTIFIER - voltage, 12v (late production)	1
32	C 25486	CONNECTOR - rectifier (late production)	1



IGNITION SWITCH TERMINALS



ELECTRICAL SYSTEM

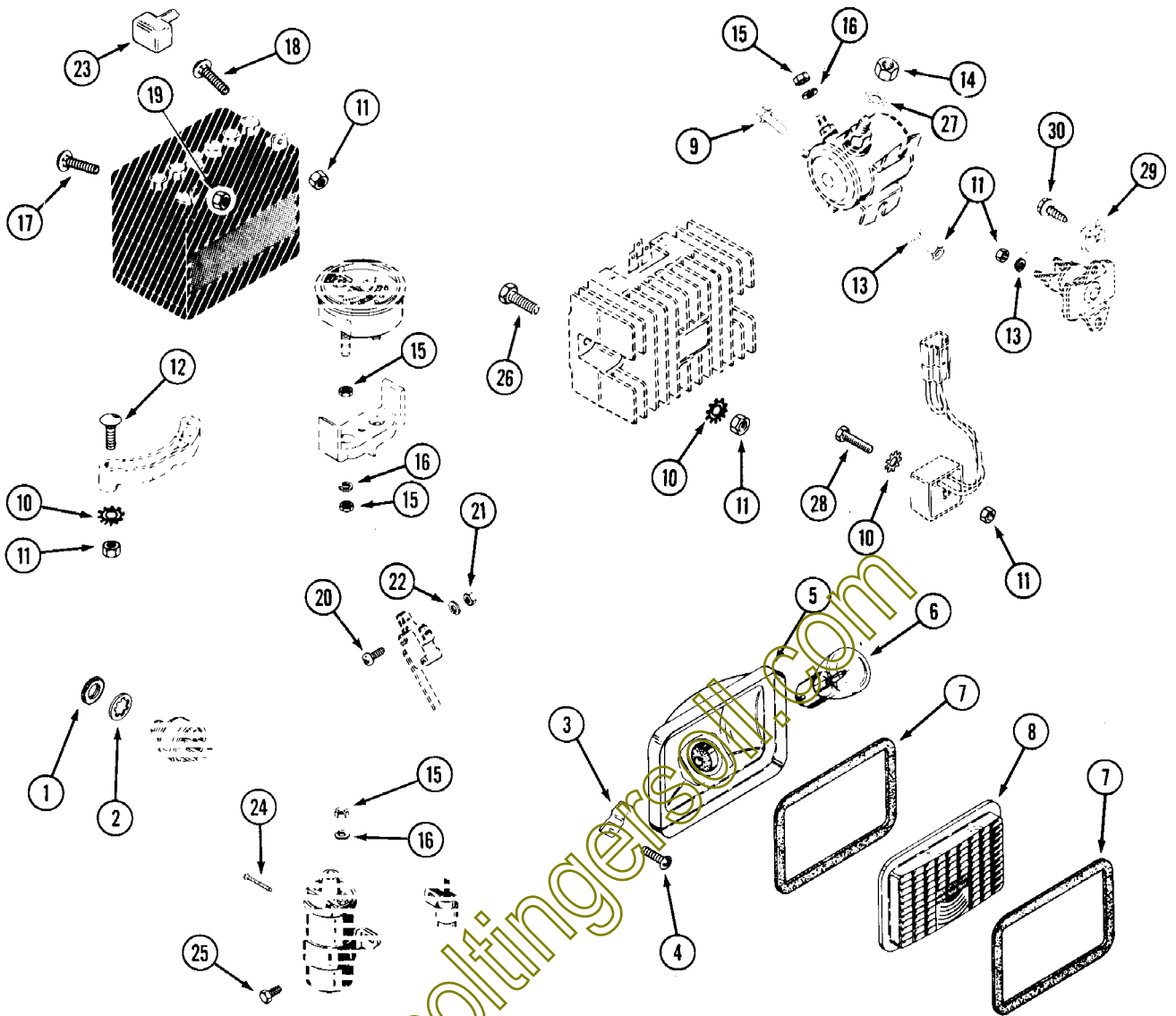
220 - use S/N 9779977 and after

222 - use S/N 9781649 and after

224 - use S/N 9783251 and after

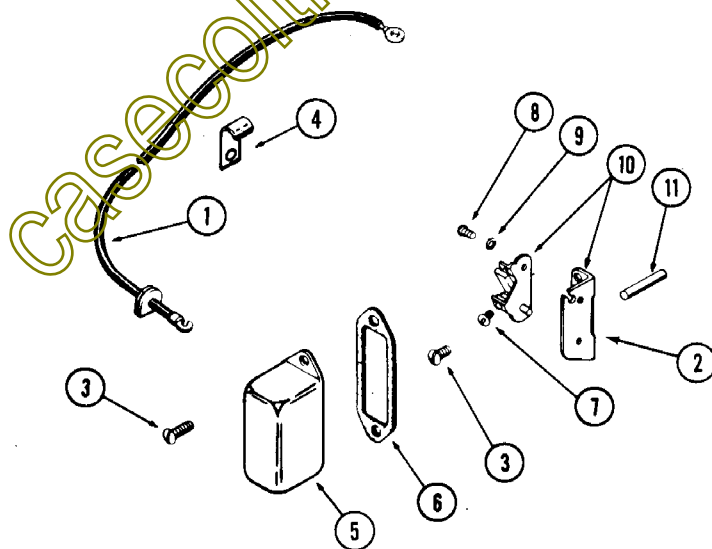
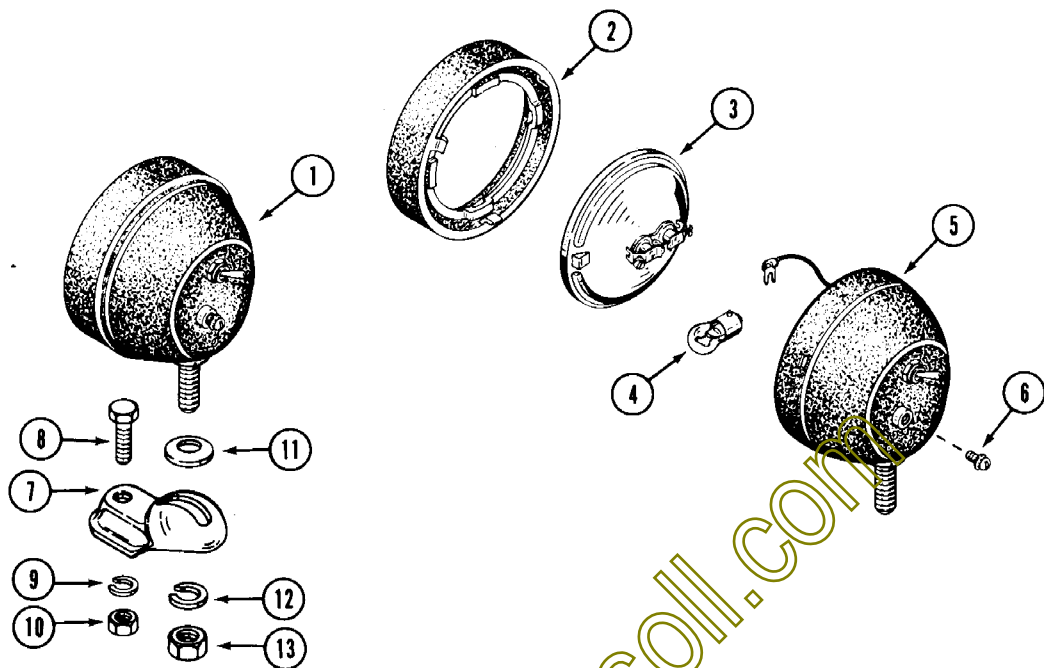
444 - use S/N 9784625 and after

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25564	HARNESS - wire	1
2	C 24815	HARNESS - wire	1
3	C 24816	CABLE - solenoid to starter (black)	1
4	C 14565	CABLE - solenoid to battery positive (red)	1
5	C 23029	CABLE - battery negative to ground (black)	1
6	C 24813	CONNECTOR - stator	1
7	C 25486	CONNECTOR - rectifier	1
8	C 14537	CONNECTOR - lights	1
9	C 18389	AMMETER - 30 amps, 12v	1
10	C 25485	RECTIFIER - voltage, 12v	1
11	C 23002	SWITCH - neutral start (includes wire)	1
12	C 21989	INSULATOR - locator	1
13	C 18197	BATTERY - 12v	1
14	C 18113	CAP - battery	6
15	C 23010	SWITCH ASSEMBLY - ignition (includes key and lockwasher)	1
16	A 24509	KEY - ignition	1
17	C 25499	SOLENOID - start 12v	1
18	C 22571	HEADLAMP ASSEMBLY - 12v (repairs page 61)	2
19	C 24889	STARTER - bendix drive (repairs page 57)	1
20	V 34427	STATOR	1
21	C 24800	SWITCH - neutral start, PTO	1
22	KO 231281	COIL - ignition, 12v (includes bracket)	1
23	V 34435	BRACKET - coil mounting	1
24	C 24301	SPARK PLUG - (includes gasket)	1
25	A 27251	GASKET - spark plug	1
26	V 34433	KIT - high tension cable	1
27	KO 230722	CONDENSER	1
28	223- 20	FUSE - 20 amp (included in harness)	1
29	NSS	BREAKER CONTACT ASSEMBLY - ignition (repairs page 63)	1
30	C 25563	WIRE - solenoid to micro switch	1



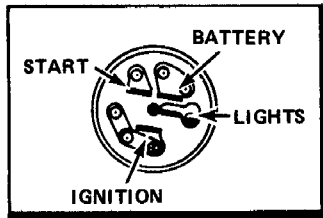
ELECTRICAL SYSTEM HARDWARE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23330	NUT - switch mounting	1
2	C 23012	LOCKWASHER - internal tooth	1
3	131- 629	NUT - speed type "U"	4
4	187- 1047	SCREW - #8 x 1/2" self tapping, rd. head Phillips	4
	C 22571	HEADLAMP ASSEMBLY	2
5	NSS	RECEPTACLE - headlamp (order C22571).	1
6	A 41264	BULB - headlamp	1
7	C 14304	GASKET - headlamp	2
8	C 22573	LENS - headlamp	1
9	113- 1	BOLT - 1/4" - 20 x 1/2" hex	2
10	193- 57	LOCKWASHER - 1/4" external tooth	5
11	129- 101	NUT - 1/4" - 20 hex	3
12	111- 140	BOLT - 1/4" - 20 x 1-1/8" rd. head sq. neck	2
13	192- 19	LOCKWASHER - 1/4"	2
14	129- 162	NUT - 5/16" NF hex	2
15	129- 27	NUT - #10 N.F. hex	2
16	193- 26	LOCKWASHER - #10	2
17	111- 202	BOLT - 5/16" x 3/4" N.C. rd. head sq. neck	1
18	111- 108	BOLT - 1/4" x 3/4" N.C. rd. head sq. neck	1
19	129- 102	NUT - 5/16" NC hex	1
20	182- 9	SCREW - #4 - 40 x 3/4 N.C. pan head	2
21	129- 13	NUT - #4 - 40 hex	2
22	192- 13	LOCKWASHER - #4	2
23	C 24069	COVER - terminal	1
24	187- 1844	SCREW - #10 x 1-1/2" N.F. self tap	1
25	22- 58	BOLT - 5/16 x 1/2 N.C. hex, self tap	2
26	113- 3	BOLT - 1/4" - 20 x 3/4" hex	2
27	193- 29	LOCK WASHER - 5/16"	2
28	113- 17	BOLT - 1/4" - 20 x 1-1/4" hex	1
29	C 10836	NUT - speed type	2
30	187- 484	SCREW - self tapping	2

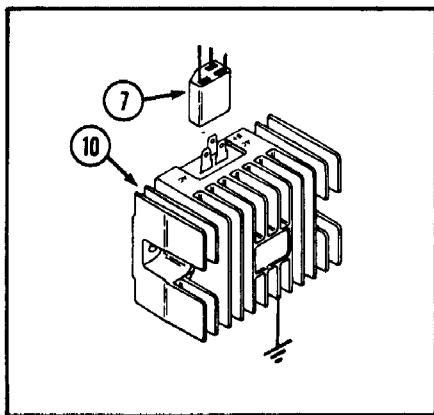
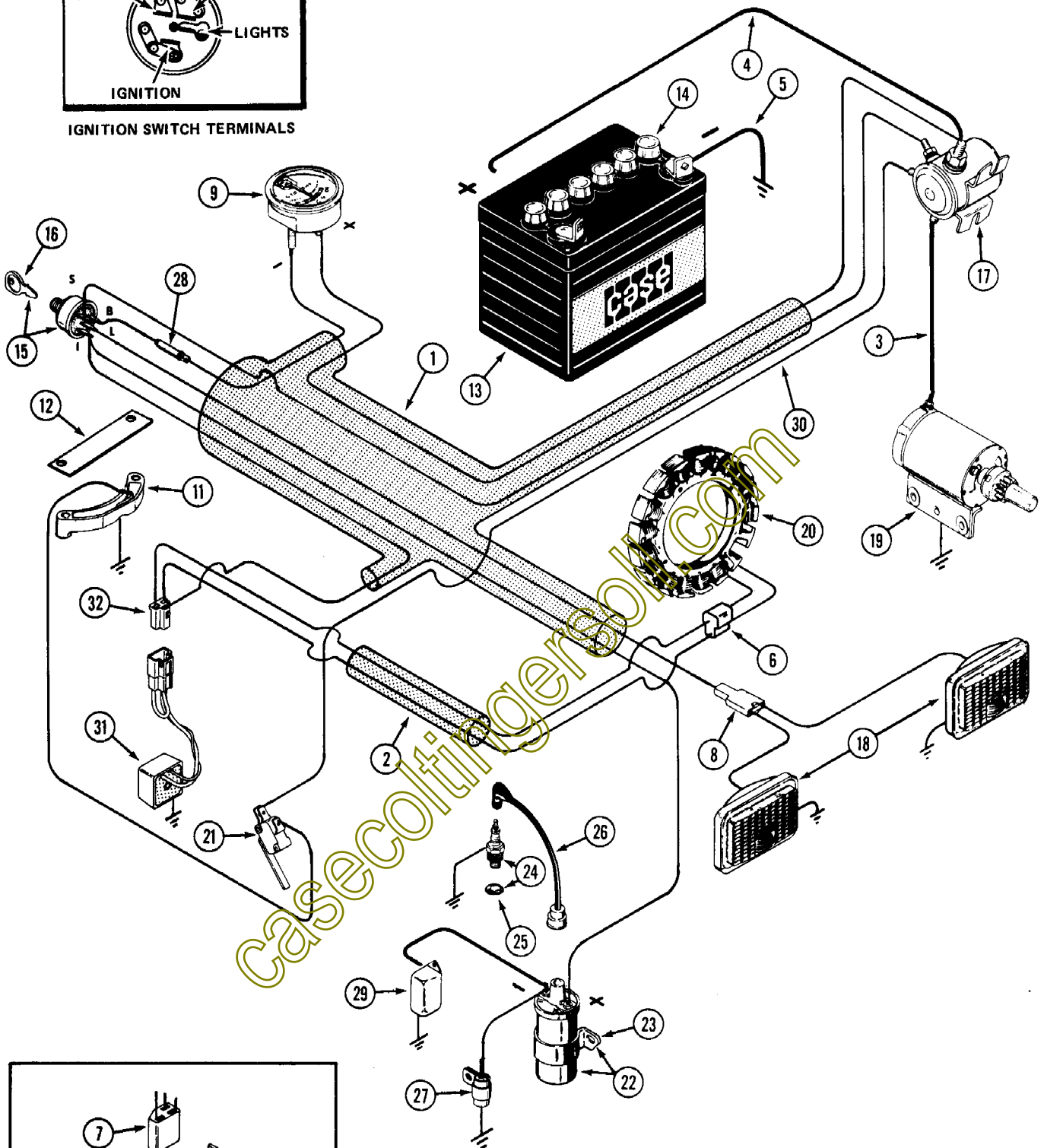


STARTER

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 24889	STARTER ASSEMBLY	1
2	V 34381	BOLT - thru.	2
3	V 34392	CAP - end	1
4	V 34384	KIT - commutator cap.	1
5	NSS	CAP - commutator	1
6	V 34383	KIT - brush and spring.	1
7	NSS	KIT - brush holder.	1
8	V 34885	KIT - hardware	1
9	V 34382	WASHER - armature thrust	1
10	C 24890	ARMATURE	1
11	C 24891	KIT - drive	1
12	V 34386	SPRING - anti-drift.	1
13	V 34387	SPACER - gear stop.	1
14	NSS	GEAR - drive.	1
15	V 34388	NUT - gear stop.	1
16	C 24892	COVER - dust.	1
17	V 34391	SPACER - dust cover.	1
18	NSS	BODY - starter	1
19	C 24886	BOLT - shoulder 3/8" - 20 x 1-5/16"	2
20	192- 21	LOCKWASHER - 3/8"	2
	321- 1834	DECAL - alternator electrical system	1
	C 24880	DECAL - "DO NOT STRIKE"	1



IGNITION SWITCH TERMINALS



ELECTRICAL SYSTEM

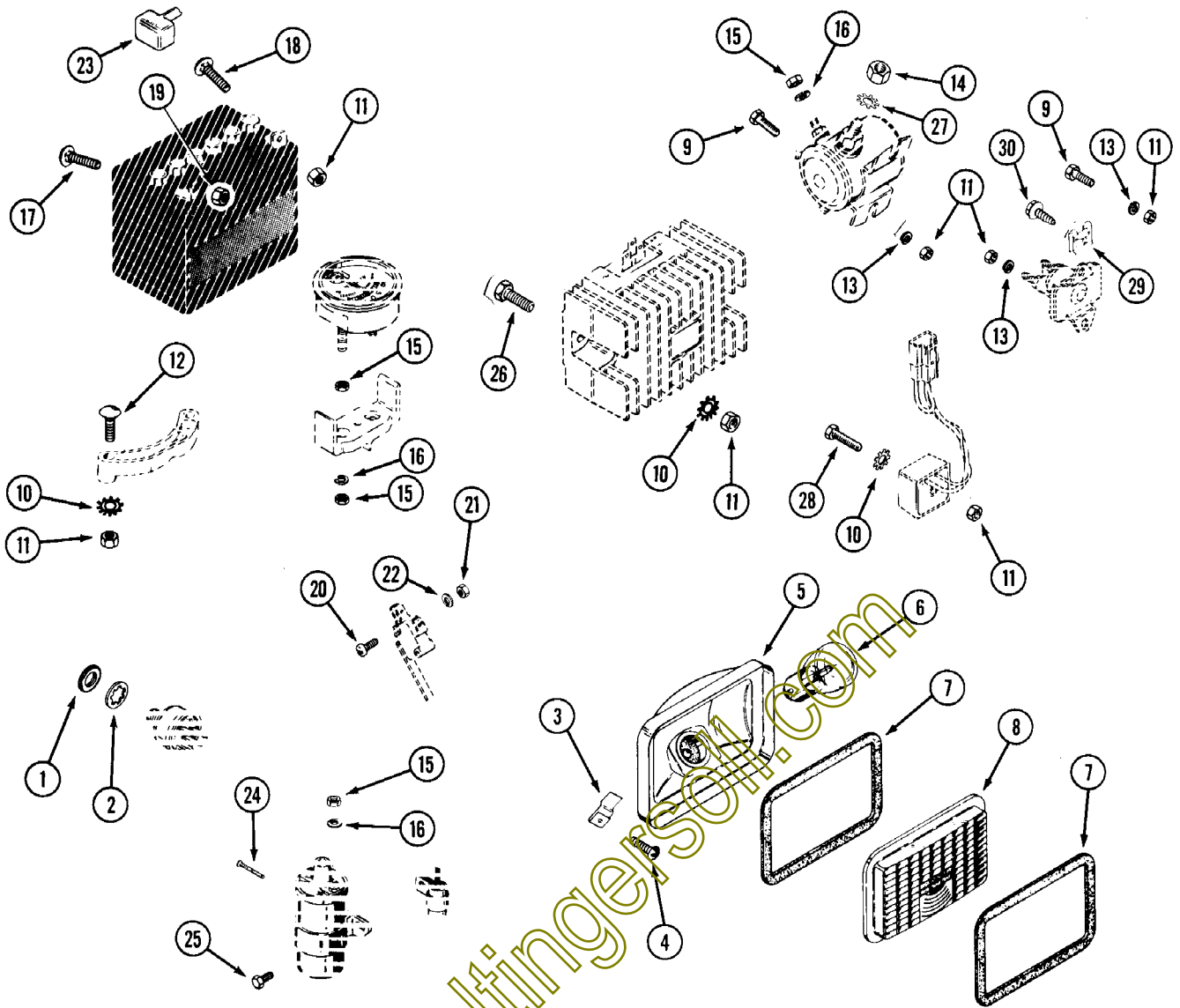
220 - use S/N 9779977 and after

222 - use S/N 9781649 and after

224 - use S/N 9783251 and after

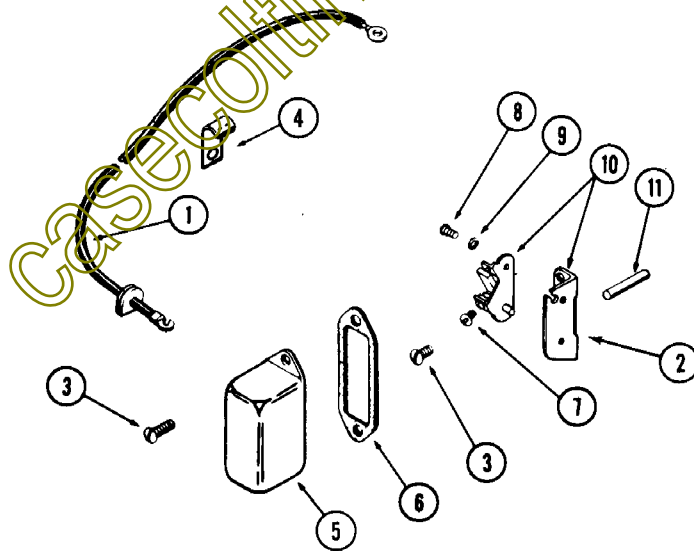
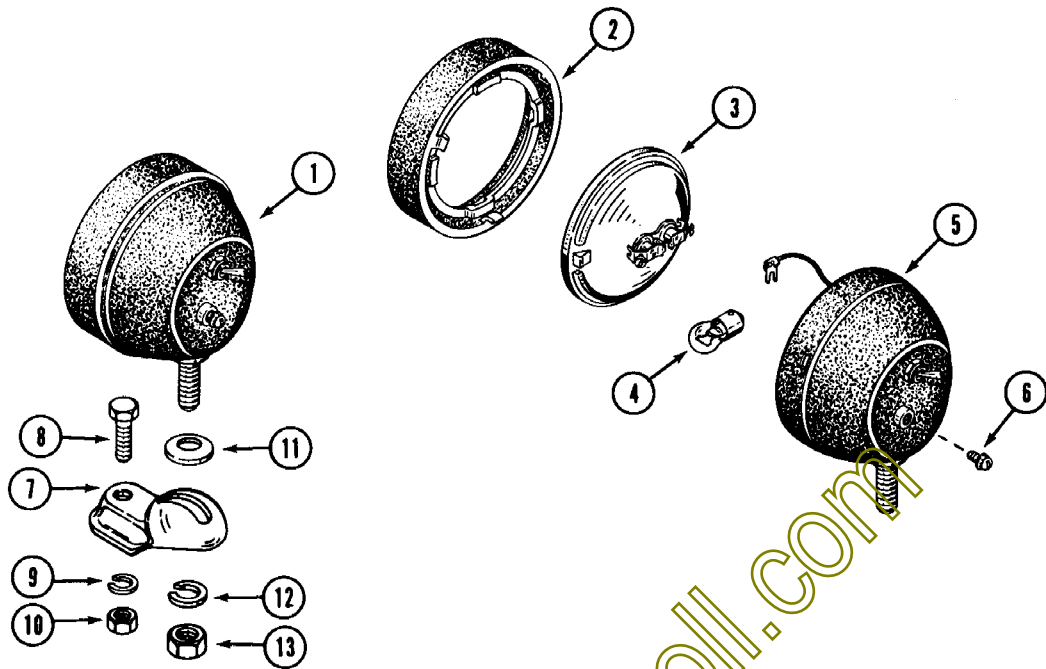
444 - use S/N 9784625 and after

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25564	HARNESS - wire	1
2	C 24815	HARNESS - wire	1
3	C 24816	CABLE - solenoid to starter (black)	1
4	C 14565	CABLE - solenoid to battery positive (red)	1
5	C 24814	CABLE - battery negative to ground (black)	1
6	C 24813	CONNECTOR - stator	1
7	C 25486	CONNECTOR - rectifier	1
8	C 14537	CONNECTOR - lights	1
9	C 18389	AMMETER - 30 amps, 12v	1
10	C 25485	RECTIFIER - voltage, 12v	1
11	C 23002	SWITCH - neutral start (includes wire)	1
12	C 21989	INSULATOR - locator	1
13	C 18197	BATTERY - 12v	1
14	C 18113	CAP - battery	6
15	C 23010	SWITCH ASSEMBLY - ignition (includes key and lockwasher)	1
16	A 24509	KEY - ignition	1
17	C 25499	SOLENOID - start 12v	1
18	C 22571	HEADLAMP ASSEMBLY - 12v (repairs page 69)	2
19	C 24889	STARTER - bendix drive (repairs page 63)	1
20	V 34427	STATOR	1
21	C 24800	SWITCH - neutral start, PTO	1
22	KO 231281	COIL - ignition, 12v (includes bracket)	1
23	V 34435	BRACKET - coil mounting	1
24	C 24301	SPARK PLUG (includes gasket)	1
25	A 27251	GASKET - spark plug	1
26	V 34433	KIT - high tension cable	1
27	KO 230722	CONDENSER	1
28	223- 20	FUSE - 20 amp (included in harness)	1
29	NSS	BREAKER CONTACT ASSEMBLY - ignition (repairs page 71)	1
30	C 25563	WIRE - solenoid to micro switch	1



ELECTRICAL SYSTEM HARDWARE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23330	NUT - switch mounting	1
2	C 23012	LOCKWASHER - internal tooth	1
3	131- 629	NUT - speed type "U"	4
4	187- 1334	SCREW - #8 x 1/2" self tapping, rd. head Phillips	4
	C 22571	HEADLAMP ASSEMBLY	2
5	NSS	RECEPTACLE - headlamp (order C22571).	1
6	A 41264	BULB - headlamp	1
7	C 14304	GASKET - headlamp.	2
8	C 22573	LENS - headlamp	1
9	113- 1	BOLT - 1/4" - 20 x 1/2" hex	2
10	193- 57	LOCKWASHER - 1/4" external tooth	5
11	129- 101	NUT - 1/4" - 20 hex.	3
12	111- 140	BOLT - 1/4" - 20 x 1-1/8" rd. head sq. neck	2
13	192- 19	LOCKWASHER - 1/4"	2
14	129- 162	NUT - 5/16" NF hex	2
15	129- 27	NUT - #10 N.F. hex.	2
16	193- 99	LOCKWASHER - #10	2
17	111- 202	BOLT - 5/16" x 3/4" N.C. rd. head sq. neck	1
18	111- 108	BOLT - 1/4" x 3/4" N.C. rd. head sq. neck	1
19	129- 102	NUT - 5/16" NC hex	1
20	182- 10	SCREW - #4 - 40 x 7/8" N.C. pan head	2
21	129- 13	NUT - #4 - 40 hex	2
22	192- 13	LOCKWASHER - #4	2
23	C 24069	COVER - terminal	1
24	187- 1844	SCREW - #10 x 1-1/2" N.F. self tap	1
25	22- 58	BOLT - 5/16 x 1/2 N.C. hex, self tap	2
26	113- 3	BOLT - 1/4" - 20 x 3/4" hex	2
27	193- 29	LOCK WASHER - 5/16"	2
28	113- 17	BOLT - 1/4" 20 x 1-1/4" hex	1
29	C 10836	NUT - speed type	2
30	187- 1908	SCREW - self tapping	2
	C 19521	CLIP - headlight wire	1

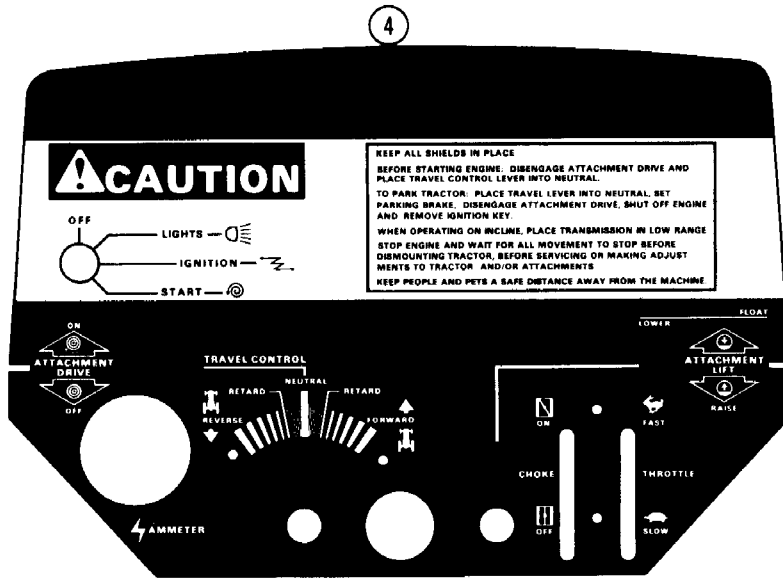


D70115 FLOOD AND TAIL LAMP (OPTIONAL)

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

BREAKER CONTACTS

1	NSS	LEAD - breaker contact (order from local supplier)	1
2	NSS	BRACKET - breaker contacts	1
3	V 34421	SCREW - #10 x 3/8" round head, zinc plated	4
4	KO 275182	RETAINER - wire	1
5	V 35060	COVER - breaker contact	1
6	KO 220174	GASKET - cover	1
7	187- 408	SCREW - #6 x 3/8" self-tapping	1
8	173- 224	SCREW - #8 x 1/4" N.C. round head	1
9	193- 5	LOCKWASHER - #8 internal tooth	1
10	C 24135	POINT SET - breaker contact assembly	1
11	C 23870	ROD - breaker contact push	1



1

CASE

14

220

15

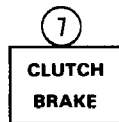
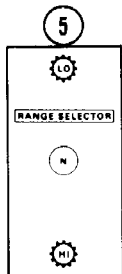
222

16

224

17

444



8

220

10

224

9

222

11

444

DECALS

USED PRIOR TO S/N:

9749188 - 220

9750875 - 222

9752340 - 224

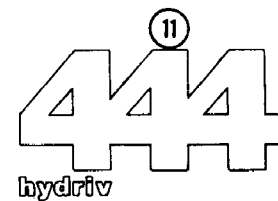
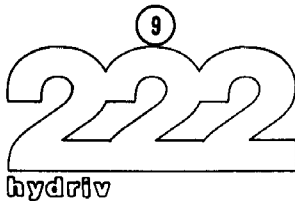
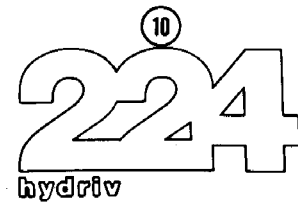
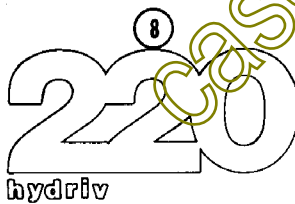
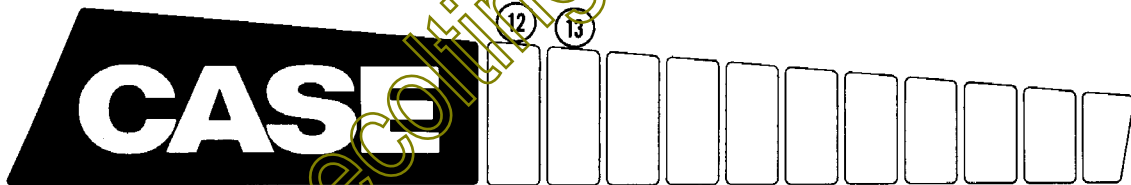
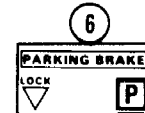
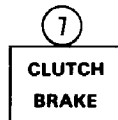
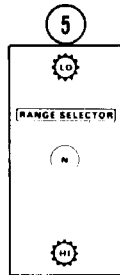
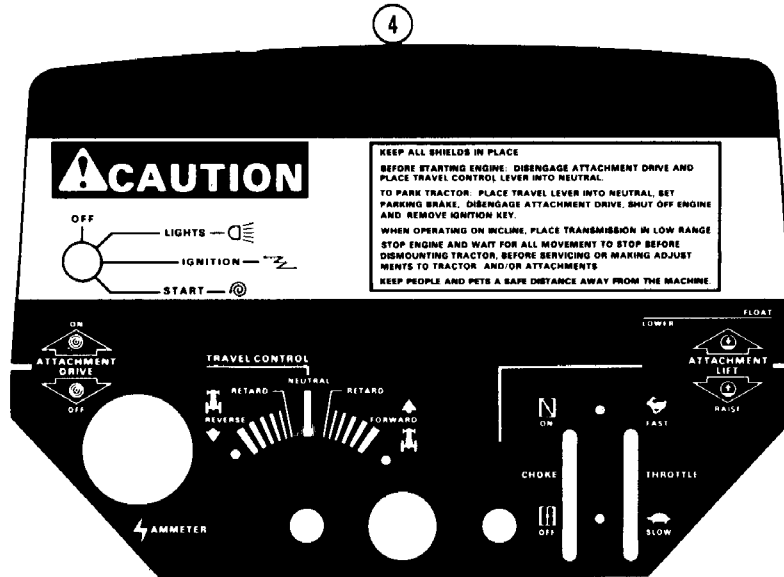
9753695 - 444

(English)

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

(French and English)

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



DECALS

USE S/N AND AFTER

9749188 - 220

9750875 - 222

9752340 - 224

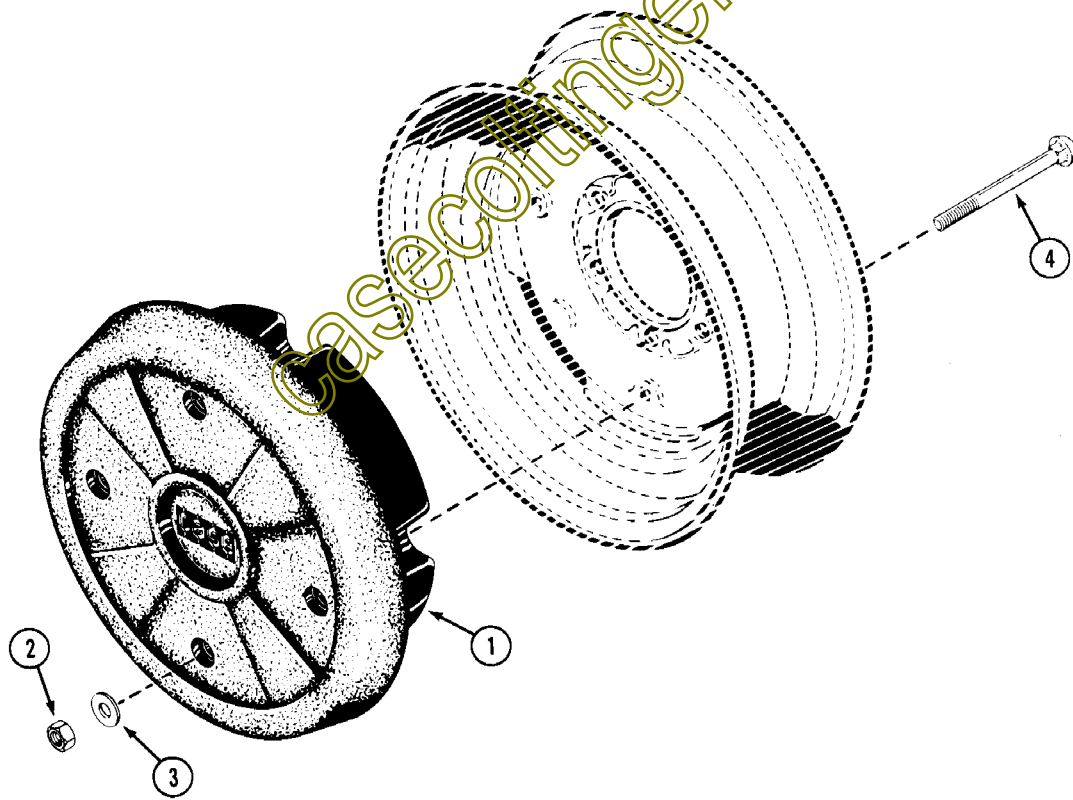
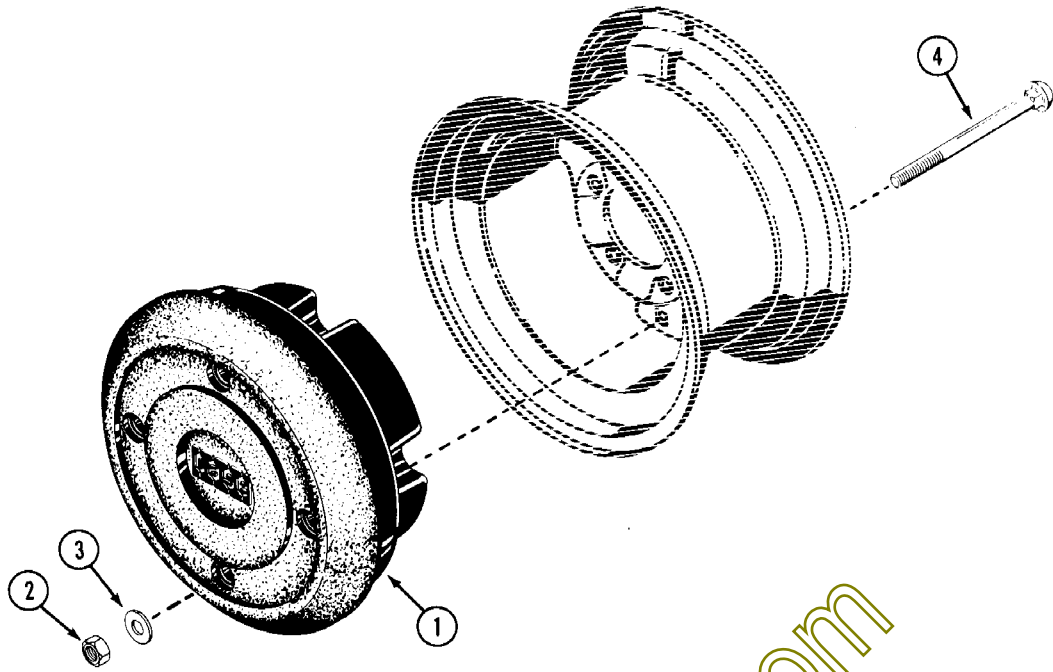
9753695 - 444

(English)

REF.	PART NO.	DESCRIPTION	REQ'D
1	321- 5097	DECAL - "Case" seat back	1
2	321- 18	DECAL - gasoline.	1
3	321- 4767	DECAL - hydraulic reservoir	1
4	321- 3585	DECAL - instrument panel	1
5	321- 1788	DECAL - shift range.	1
6	NSS	DECAL - parking brake (use 321-6227)	1
7	NSS	DECAL - clutch, brake (use 321-6227)	1
8	321- 5103	DECAL - hood top, 220.	1
9	321- 5104	DECAL - hood top, 222.	1
10	321- 5105	DECAL - hood top, 224.	1
11	321- 5106	DECAL - hood top, 444.	1
12	321- 5100	DECAL - hood R. H. (shown)	1
13	321- 5101	DECAL - hood L. H.	1
14	321- 5040	MEDALLION - "CASE"	1

(French)

1	NSS	DECAL - "Case" seat back	1
2	321- 4728	DECAL - gasoline.	1
3	321- 4764	DECAL - hydraulic reservoir	1
4	321- 4734	DECAL - instrument panel	1
5	321- 4693	DECAL - shift range.	1
6	321- 4697	DECAL - parking brake	1
7	321- 6324	DECAL - clutch, brake.	1
8	NSS	DECAL - hood top, 220.	1
9	NSS	DECAL - hood top, 222.	1
10	NSS	DECAL - hood top, 224.	1
11	NSS	DECAL - hood top, 444.	1
12	NSS	DECAL - hood R. H. (shown)	1
13	NSS	DECAL - hood L. H.	1
14	NSS	MEDALLION - "Case"	1



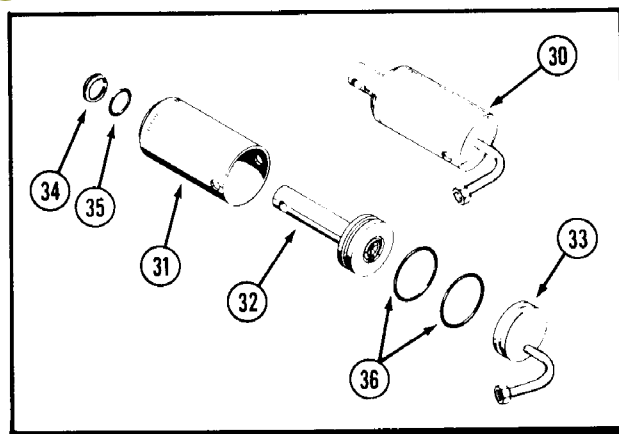
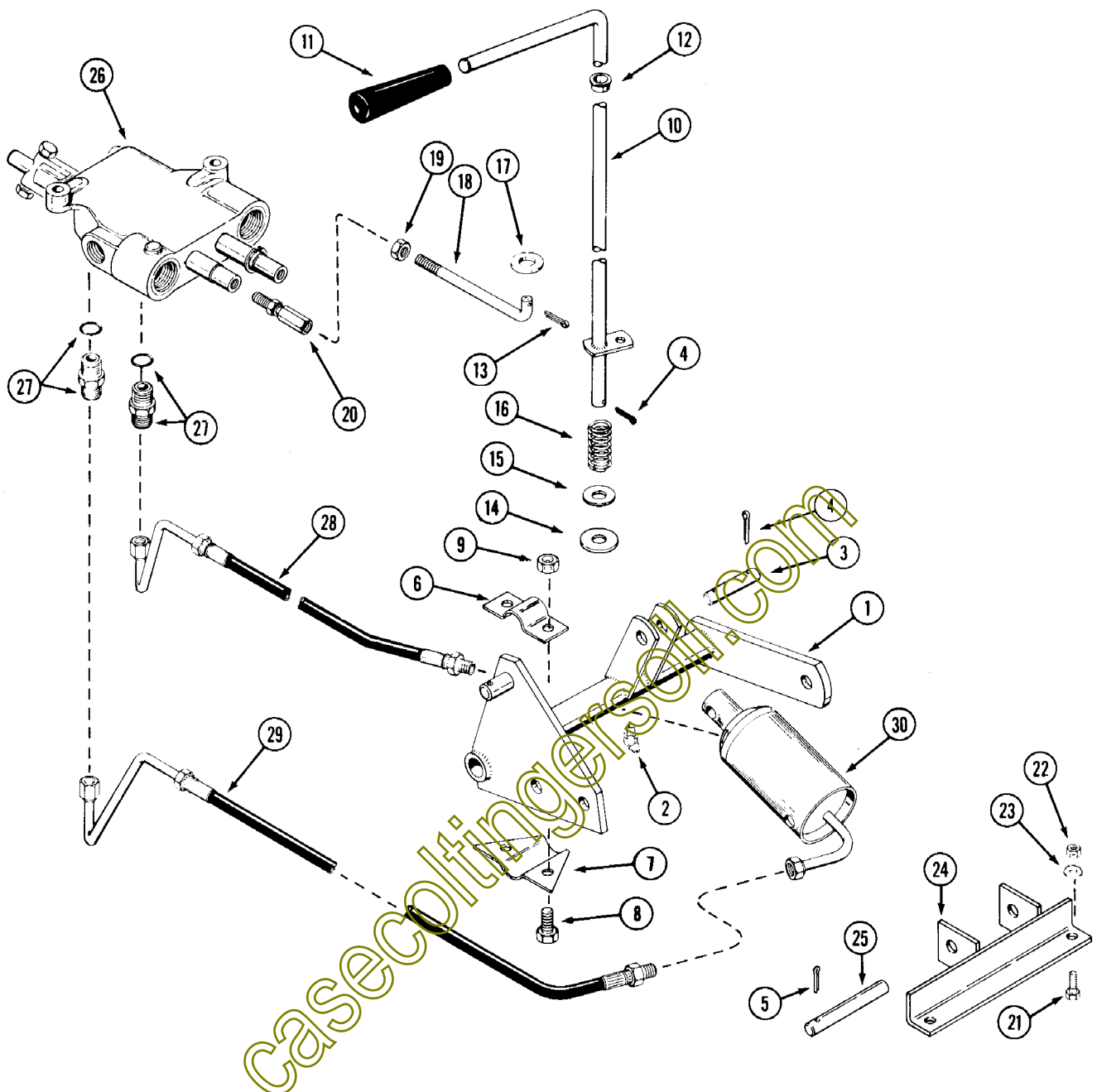
K8 WHEEL WEIGHTS – MODEL 220, 222, AND 224

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

K10 WHEEL WEIGHTS – MODEL 444

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

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MODEL J30 HYDRAULIC LIFT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 19661	ROCKSHAFT ASSEMBLY - (444)	1
1	C 18808	ROCKSHAFT ASSEMBLY - (220, 222 and 224) shown	1
2	219- 404	FITTING - lube	1
3	C 18251	PIN - cylinder to lever	1
4	132- 310	PIN - cotter 1/8" x 1"	3
5	132- 361	PIN - cotter 1/8" x 2-1/2" (early production)	1
5	132- 310	PIN - cotter 1/8" x 1"	1
6	C 17249	BRACKET - mounting, top	2
7	C 17250	BRACKET - mounting, bottom.	2
8	113- 207	BOLT - 3/8" x 1" NC hex	4
9	131- 1181	NUT - 3/8" NC hex	4
10	C 16163	LEVER - lift control.	1
11	A 37247	KNOB - control lever.	1
12	C 12093	BUSHING - lift lever.	1
13	132- 26	PIN - cotter 3/32" x 3/4"	1
14	195- 533	WASHER - 1/2"	1
15	C 21518	WASHER - nylon	1
16	C 25595	SPRING - control lever	1
17	195- 521	WASHER - 5/16"	1
18	C 18742	ROD - control	1
19	129- 122	NUT - 5/16 NF hex	1
20	C 19025	BALL JOINT	1
21	113- 207	BOLT - 3/8" x 1" NC hex	2
22	131- 1181	LOCKNUT - 3/8" NC hex	2
23	195- 104	WASHER - 3/8" x 1-1/8" OD.	2
24	C 26185*	BRACKET - cylinder	1
25	D 63720	PIN - cylinder foot	1
26	C 25967	VALVE - hydraulic, 2 spool.	1
27	218- 5056	FITTING - valve (includes 2185004 "O" ring).	2
28	C 17224	HOSE - short	1
29	C 17734	HOSE - long	1
30	NSS	CYLINDER - lift (order C19475).	1
31	C 16133	BODY - cylinder.	1
32	C 19104	ROD AND PISTON ASSEMBLY.	1
33	C 17732	FOOT - cylinder.	1
34	C 14970	SEAL.	1
35	A 7623	"O" RING	1
36	A 30971	"O" RING	2
	C 13106	COVER - lube fitting	1

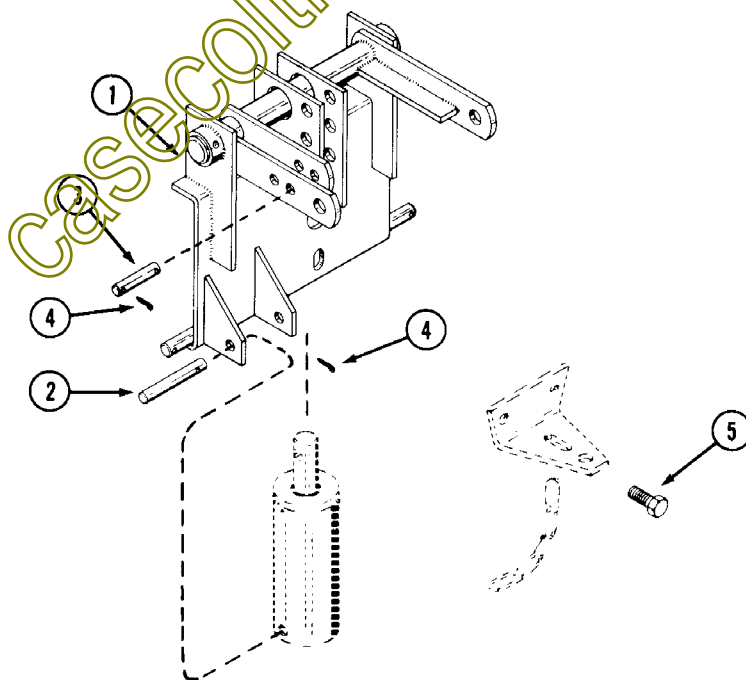
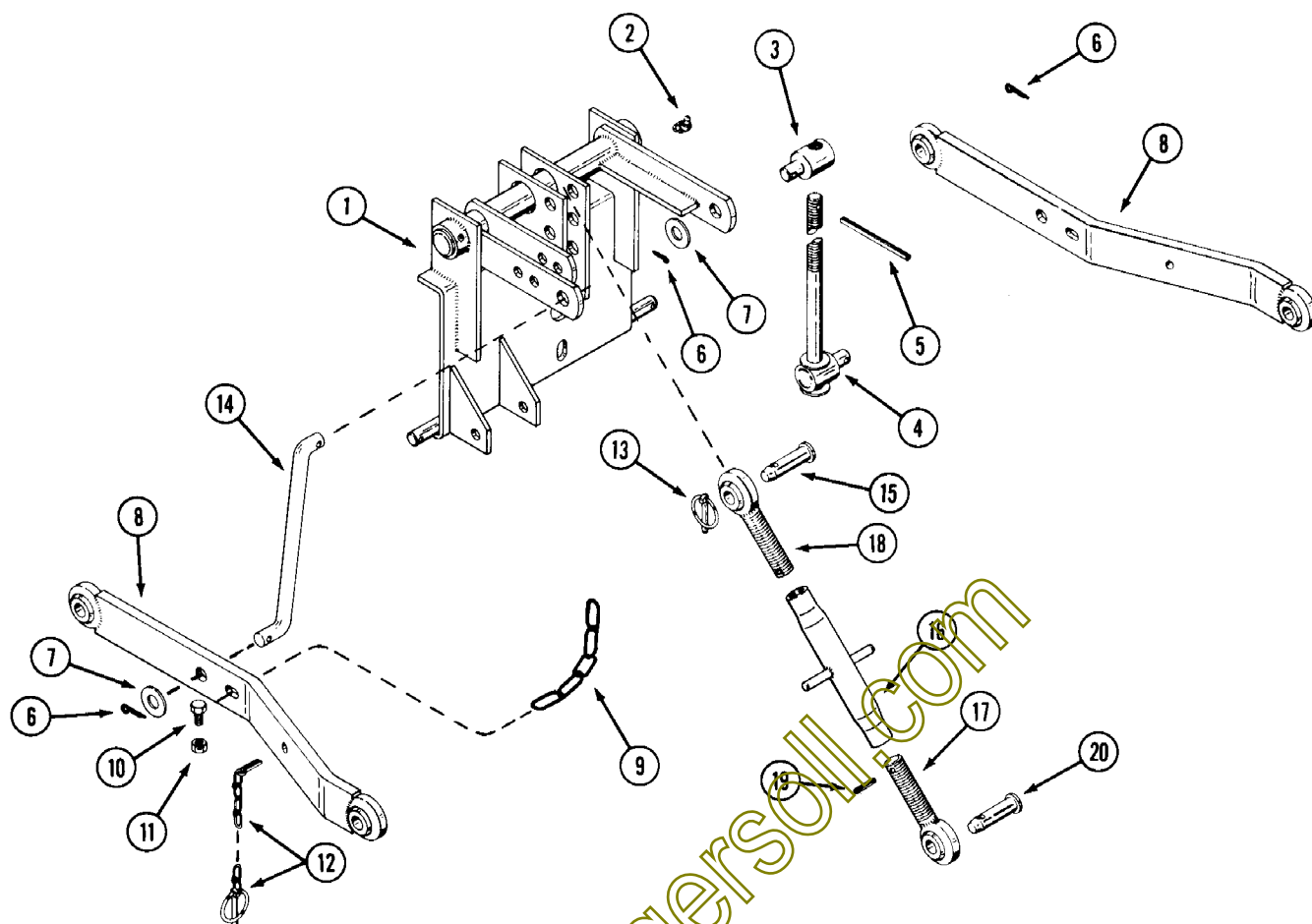
*also requires D63720 pin before S/N:

220 - 14005176

222 - 14006635

224 - 14007760

444 - 14009197

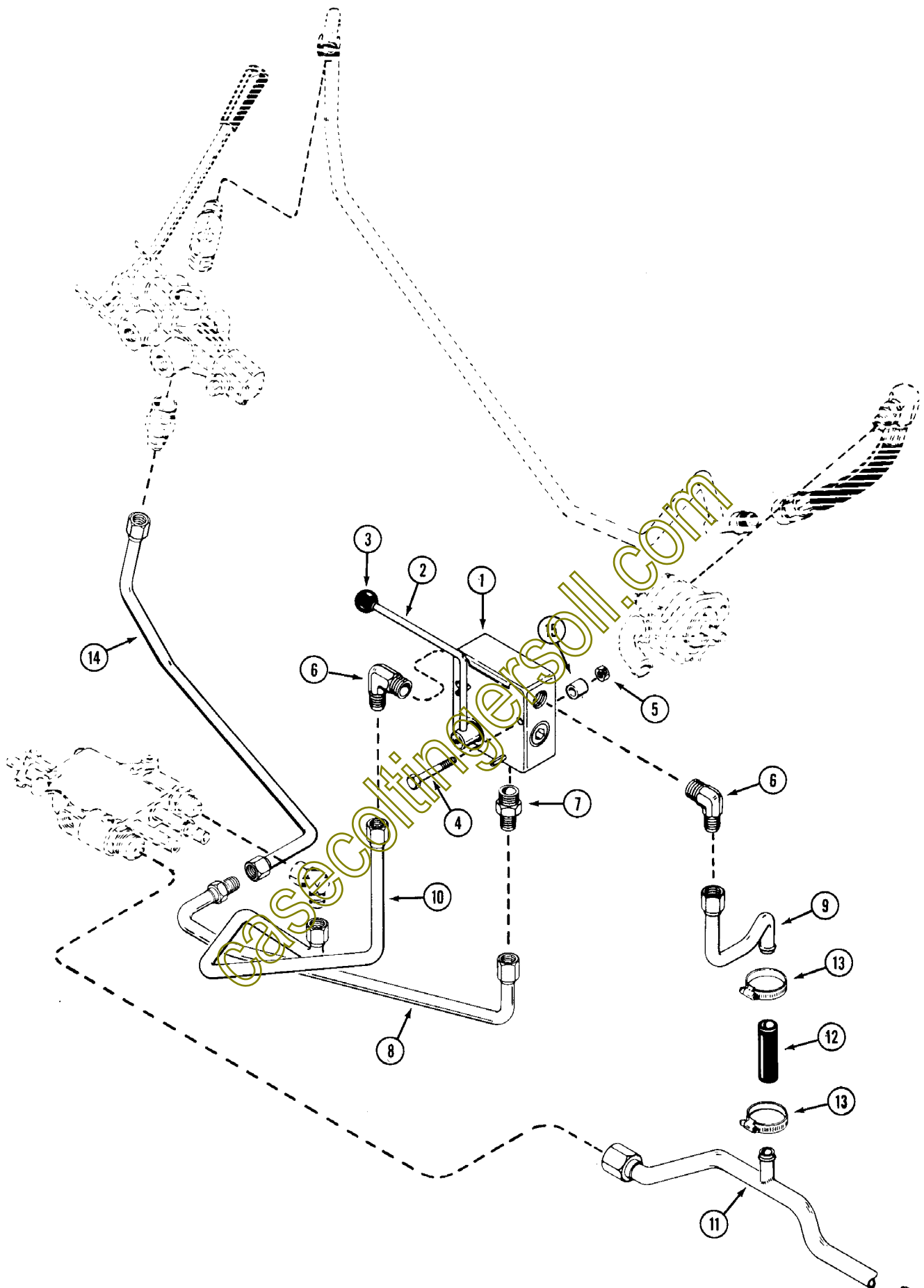


J-17 HYDRAULIC PTO VALVE J-17 AND K-17 LEVER ASSEMBLY

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	VALVE - control (use C24962 valve)	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 C24962)	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 1-1/4" 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 37247	KNOB - hand throttle	1
27	C 12127	BUSHING - nylon	1

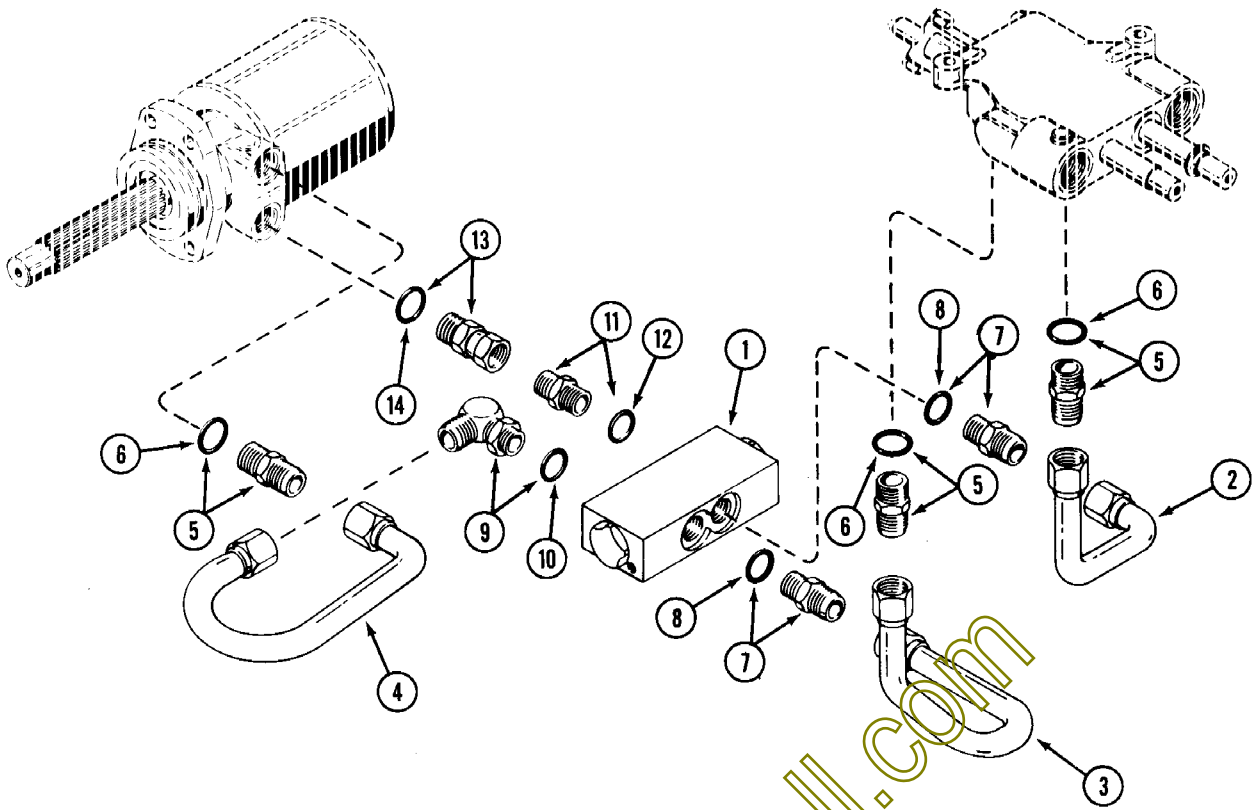
K-17 HYDRAULIC PTO VALVE

1	C 24962	VALVE - control	1
2	NSS	BODY - valve (order C24962 valve)	1
3	NSS	SPOOL - valve (order C24962 valve)	1
4	195- 533	WASHER - spool	2
5	H 202416	RETAINER - spool	1
6	173- 38	SCREW - set	1
7	C 24984	COVER - detent and relief	1
8	C 24986	SPRING - detent	1
9	211- 7	BALL - detent, 1/4" steel	1
10	113- 3	BOLT - 1/4" - 20 x 3/4" hex	4
11	192- 19	LOCKWASHER - 1/4"	4
12	HO 35592	SEAT - relief	1
13	C 24989	SHIM - pressure adjust	1
14	C 24985	PIN - limit	1
15	211- 103	BALL - relief, 5/16" steel	1
16	C 24988	SPRING - relief	1
17	C 24983	V-PACKING	1
18	C 24987	WASHER - backup	1
19	A 58292	"O" RING	1
20	A 15888	"O" RING	1



MODEL L-19 FLOW CONTROL VALVE KIT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 23618	VALVE - flow control	1
	A 27365	"O" RING - shaft 3/4" x 15/16"	2
	F 62023	RING - retaining - shaft .867 I.D.	2
2	C 18720	LEVER - valve	1
3	A 61683	KNOB - lever	1
4	113- 12	BOLT - 1/4" x 2-1/2" NC hex.	2
5	131- 1115	NUT - lock 1/4" NC hex	2
6	218- 485	FITTING - elbow 90° 1/2" NPT	2
7	218- 445	FITTING - straight 1/2" NPT	1
8	C 23612	TUBE - flow control valve to tube	1
9	C 23407	TUBE - bypass to return line	1
10	C 23600	TUBE - valve to tractor valve	1
11	C 19405	TUBE - heat exchanger	1
12	C 18721	HOSE - return	1
13	214- 6	CLAMP - hose	2
14	C 23879	TUBE - PTO valve to tube	1
15	C 21592	SPACER.	2
	C 18719	DECAL - valve, "slow - fast"	1



L-7 HOLDING VALVE (220, 222 and 224)

L-9 HOLDING VALVE (444)

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

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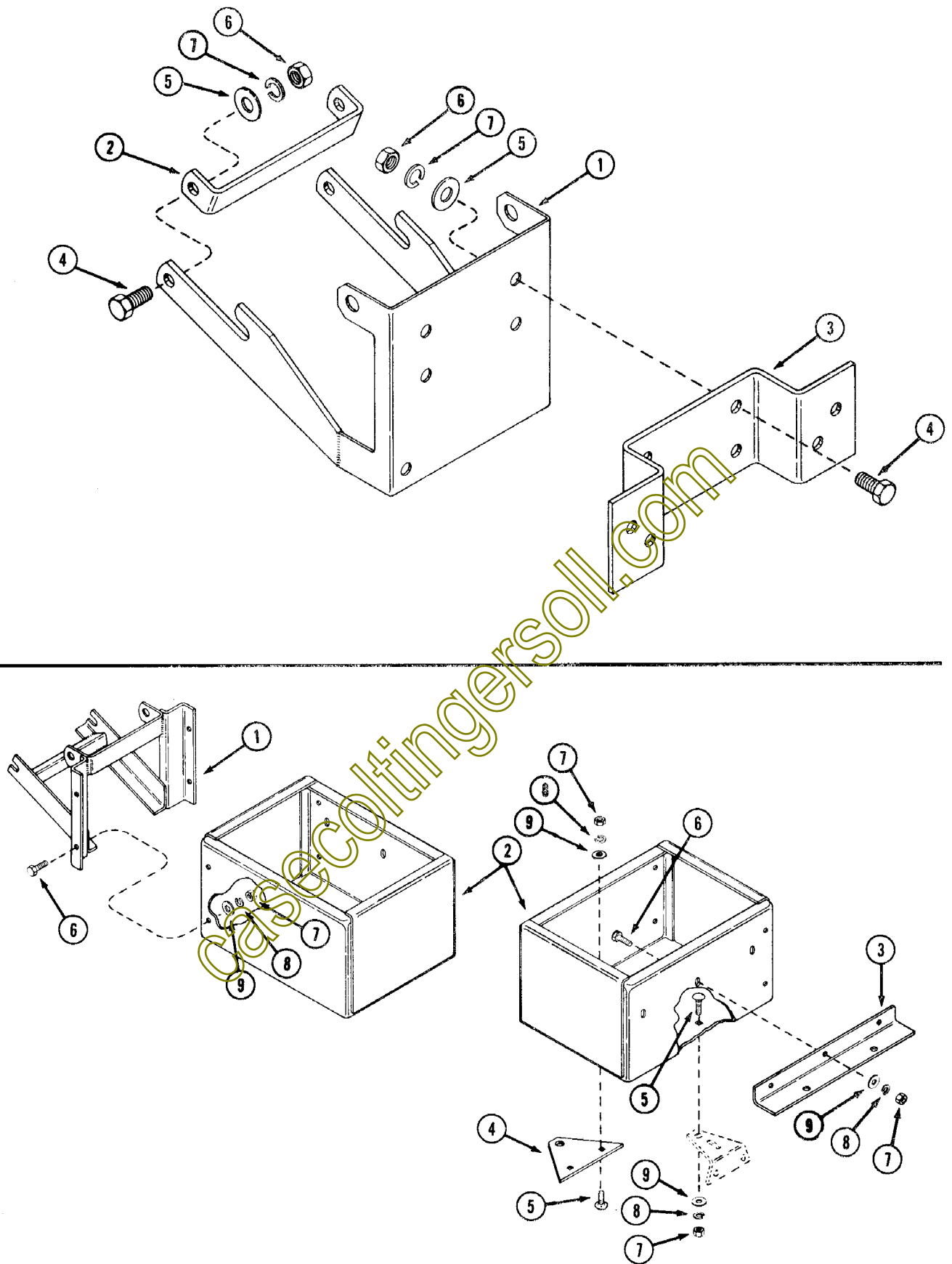
NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
	10923	63	11	C	11529	25	18	C	14399	21	26
	33686	63	4	C	11529	49	16	C	14457	75	2
	36627	81	4	C	11545	25	19	C	14459	75	5
	36628	81	7	C	11545	49	17	C	14460	75	5
	40035	11	20	C	11886	81	15	C	14506	29	4
	40035	13	20	C	11887	81	16	C	14525	45	14
	40035	15	20	C	11891	81	2	C	14534	37	12
	40035	17	28	C	11892	81	14	C	14537	59	8
	40035	19	28	C	11893	81	12	C	14553	59	17
	40035	21	28	C	11895	81	9	C	14565	59	4
	49485	29	24	C	11901	81	13	C	14568	73	2
A	7982	53	3	C	11906	39	5	C	14568	75	14
A	7982	53	4	C	12093	55	2	C	14619	49	37
A	24509	59	16	C	12093	69	12	C	14644	47	24
A	25213	63	2	C	12110	43	5	C	14655	49	35
A	27001	11	23	C	12111	43	6	C	14655	55	
A	27001	13	23	C	12127	81	27	C	14690	25	20
A	27001	15	23	C	12224	29	2	C	14692	73	9
A	27251	59	25	C	12370	43	7	C	14703	71	16
A	27365	17	39	C	12551	47	25	C	14709	71	17
A	27365	19	39	C	12552	47	26	C	14710	71	18
A	27365	83		C	12559	47	31	C	14712	71	
A	27891	81	25	C	12560	47	32	C	14715	71	8
A	30064	43	10	C	12713	47	2	C	14717	71	15
A	30095	49	34	C	12718	47	36	C	14722	71	3
A	30338	71	13	C	12723	47	10	C	14724	71	4
A	30881	39	10	C	12725	47	21	C	14725	71	14
A	30881	39	11	C	12965	47	38	C	14728	37	22
A	34046	63	7	C	12975	39	9	C	14729	35	17
A	37247	31	1	C	12975	39	10	C	14730	35	17
A	37247	55	1	C	12975	41	20	C	14827	55	4
A	37247	69	11	C	13106	39	7	C	14828	55	7
A	37247	81	26	C	13106	39	8	C	14829	55	8
A	39519	31	8	C	13106	41		C	14830	55	9
A	40855	63	3	C	13106	43		C	14831	55	10
A	50096	47	18	C	13106	45		C	14836	55	15
A	55894	81	22	C	13106	69		C	14837	55	5
A	60273	53	1	C	13196	47	16	C	14838	55	16
A	60273	53	1	C	13197	47	17	C	14872	73	1
A	61683	83	3	C	13200	53	12	C	14906	17	44
A	62079	25	15	C	13211	47	9	C	14906	19	44
A	70062	43	11	C	13241	47	5	C	14906	21	44
A	70090	5	7	C	13261	47	40	C	14906	31	11
A	70112	51	21	C	13266	47	8	C	14953	17	38
A	70185	43	8	C	13360	45	1	C	14953	19	38
A	72077	27	3	C	13385	47	6	C	14975	71	2
A	72078	27	8	C	13716	39	6	C	14976	71	3
A	72083	27	15	C	13770	47	1	C	14991	71	9
A	72099	27	5	C	14168	47	23	C	15036	51	21
A	72103	27	11	C	14200	41	6	C	15096	41	16
B	52118	71	12	C	14201	41	7	C	15335	49	1
B	52144	47	15	C	14222	47	39	C	15410	37	9
C	10314	43	2	C	14223	47	37	C	15515	33	6
C	10372	5	8	C	14246	51	7	C	15557	33	10
C	10372	23	13	C	14304	61	7	C	15564	45	11
C	10657	25	14	C	14305	61	6	C	15718	33	3
C	10678	25	3	C	14399	17	26	C	15726	51	17
C	10898	75	4	C	14399	19	26	C	15729	51	2

MODEL J22, J24, K22 AND K24 SLEEVE HITCH

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 22218	HITCH FRAME ASSEMBLY (444) (J24, K24)	1
2	C 14457	ARM - lift (J22, J24)	1
2	C 25371	ARM - lift (K22, K24)	1
3	195- 541	WASHER - plain 21/32"	2
4	C 10898	PIN - safety	2
5	C 14459	BRACKET - hitch mounting R.H. shown	1
5	C 25789	BRACKET - hitch mounting L.H.	1
6	113- 410	BOLT - 1/2 x 1-1/2" NC hex, zinc plated	4
7	192- 23	LOCKWASHER - 1/2" zinc plated	6
8	C 25382	PLATE - lift lever	1
9	113- 417	BOLT - 1/2 x 1-1/4" NC hex, zinc plated	2
10	129- 105	NUT - 1/2" NC hex, zinc plated	4
11	195- 545	WASHER - plain 3/4" zinc plated	2
12	132- 306	PIN - cotter 3/16 x 1-3/4"	2
13	113- 476	BOLT - 1/2 x 2-3/4" NC hex, zinc plated	2
14	C 14568	PIN - drawbar	1
15	C 23707	HITCH FRAME ASSEMBLY (220, 222 and 224) (J22, K22)	1

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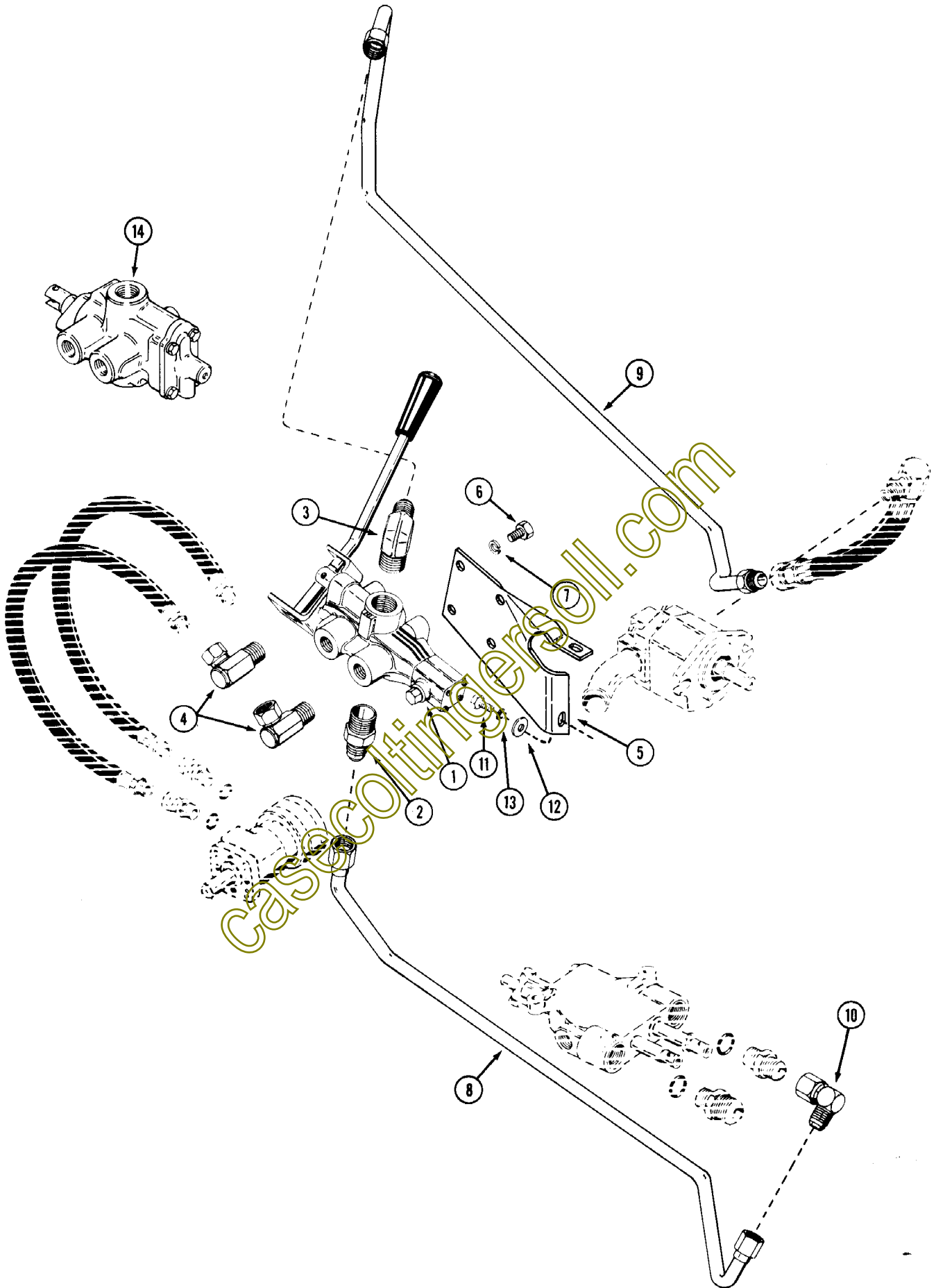


MODEL K18 FRONT END WEIGHT BRACKETS

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

MODEL H13 WEIGHT BOX

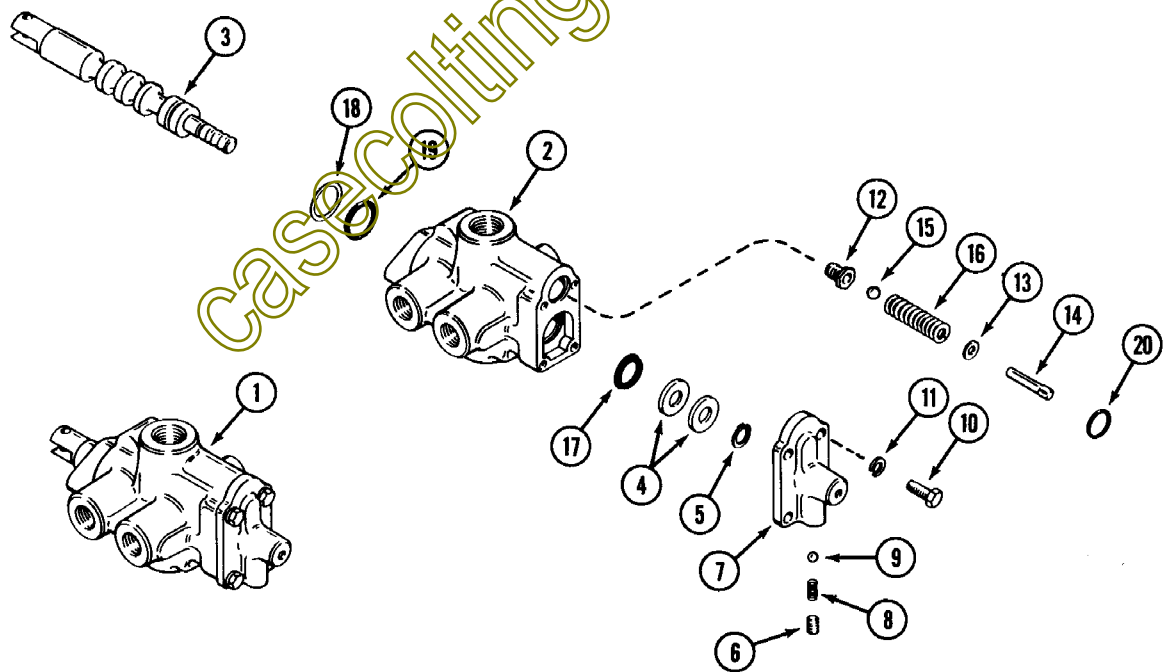
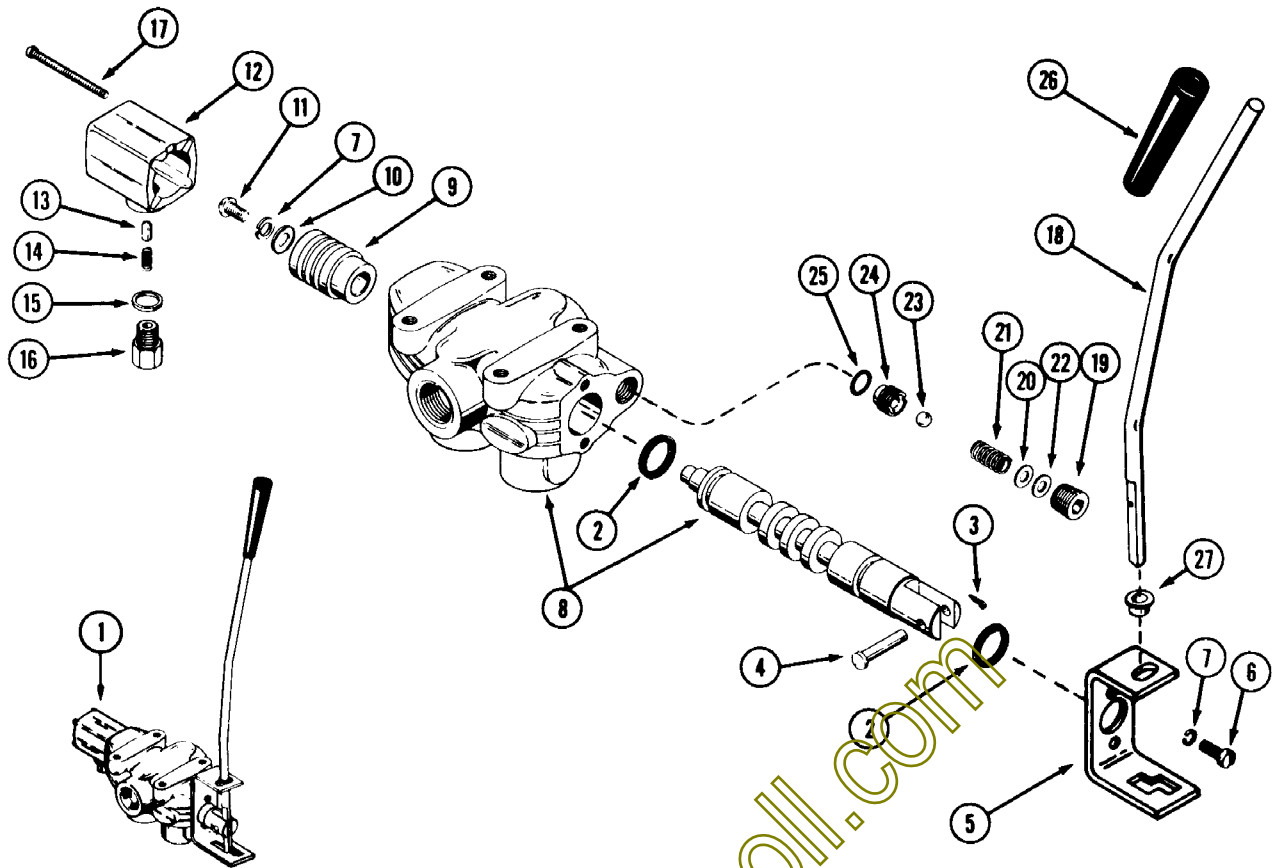
1	C	17859	FRAME - weight box	1
2	C	17863	BOX - weight	1
3	C	17860	SUPPORT - weight box	1
4	C	17636	PLATE - hitch	1
5	111-	371	BOLT - 3/8" x 1" round head, square neck	3
6	113-	207	BOLT - 3/8" x 1" NC hex	4
7	129-	103	NUT - 3/8" NC hex	7
8	192-	21	LOCKWASHER - 3/8"	7
9	195-	525	WASHER - 3/8"	7



J17, K17 AND L17 HYDRAULIC PTO KIT

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

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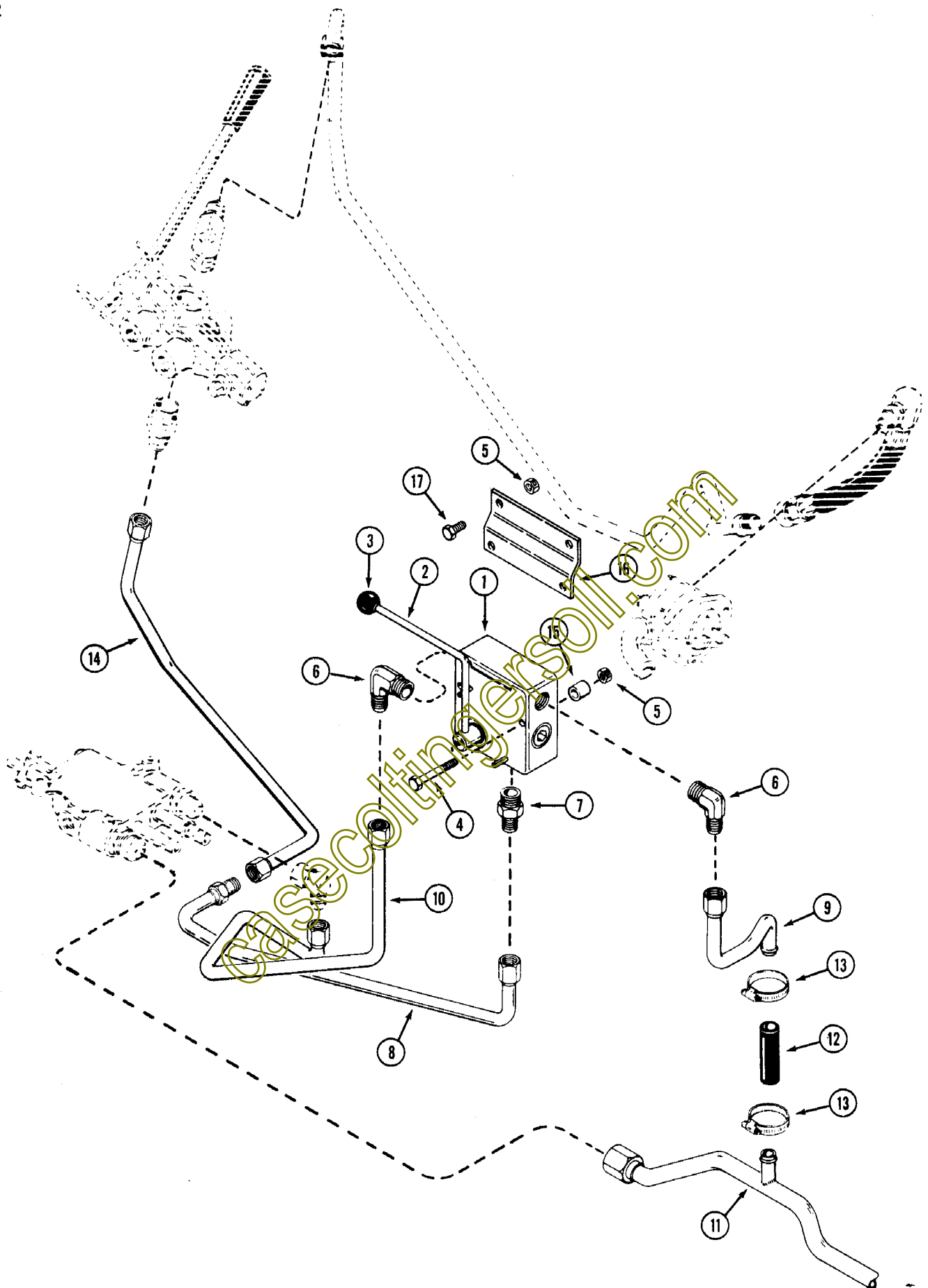


J17 AND L17 HYDRAULIC PTO VALVE J17, K17 AND L17 LEVER ASSEMBLY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18281	VALVE - control	1
2	C 11891	SEAL - U-cup	2
3	132- 5	PIN - cotter 1/16" x 1/2"	1
4	36627	PIN - handle	1
5	C 19422	BRACKET - handle.	1
6	71- 410	SCREW - 1/4" x 5/8" NC fillister head.	2
7	36628	LOCKWASHER - 1/4"	3
8	NSS	BODY AND SPOOL ASSEMBLY (use C18281 valve)	1
9	C 11895	ADAPTER - spool	1
10	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- 88	SCREW - bonnet #8-32 x 2" fillister head	4
18	C 19423	LEVER - valve.	1
19	221- 1842	PLUG - relief 3/8" NPT.	1
20	D 39712	SHIM - .010" thick.	UAR
21	T 40189	SPRING - relief	1
22	A 55894	SHIM - .020" thick.	UAR
23	211- 11	BALL - relief 3/8"	1
24	C 18417	SEAT - relief.	1
25	A 27891	"O" RING - relief seat.	1
26	A 37247	KNOB - hand throttle	1
27	C 12127	BUSHING - nylon	1

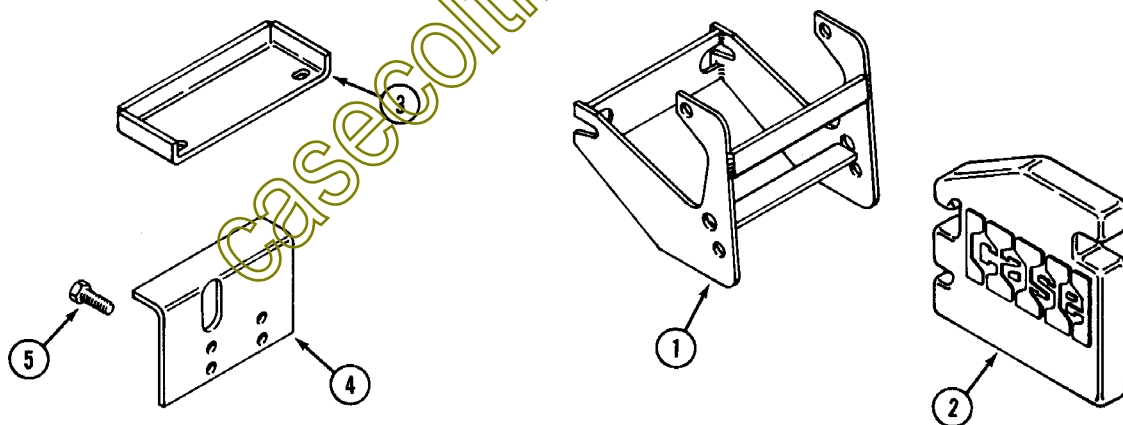
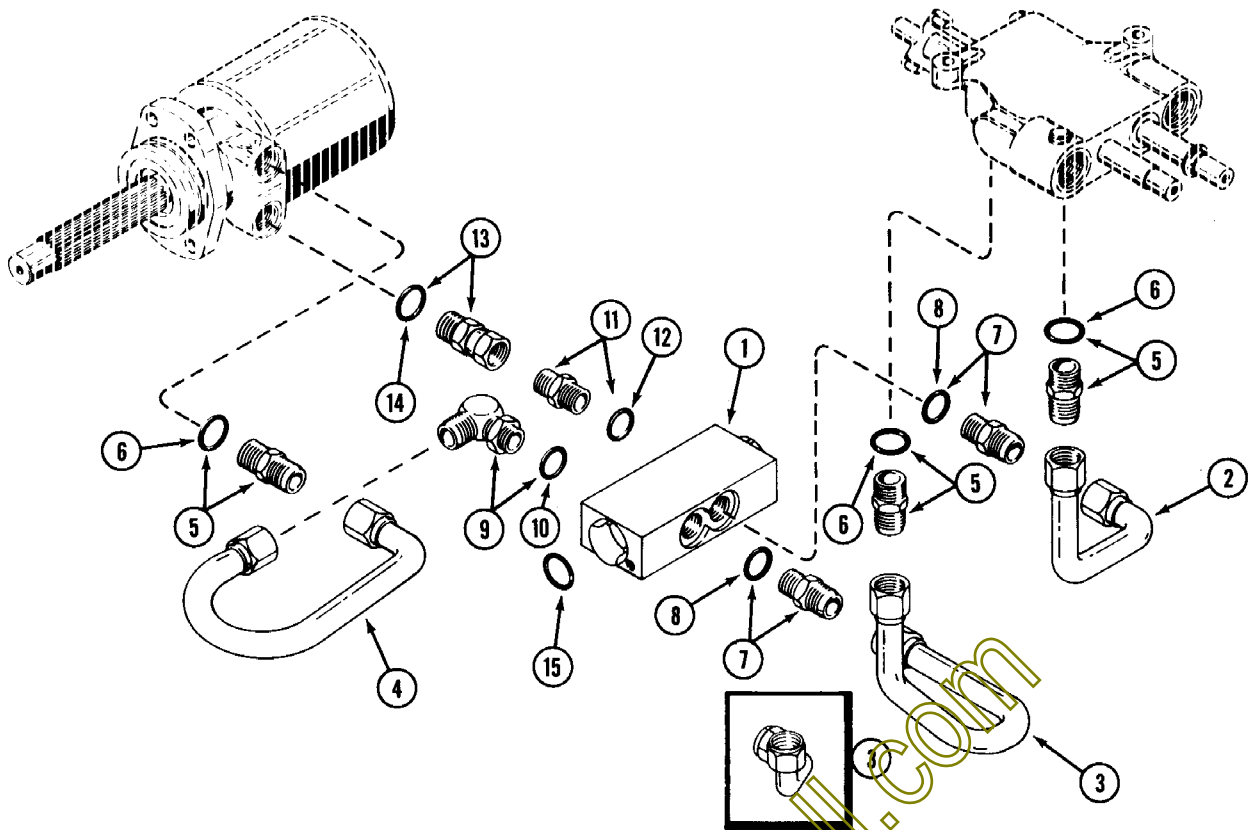
K17 HYDRAULIC PTO VALVE

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



MODEL L19 AND M19 FLOW CONTROL VALVE KIT

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



L7 HOLDING VALVE (220, 222 AND 224 ALL)

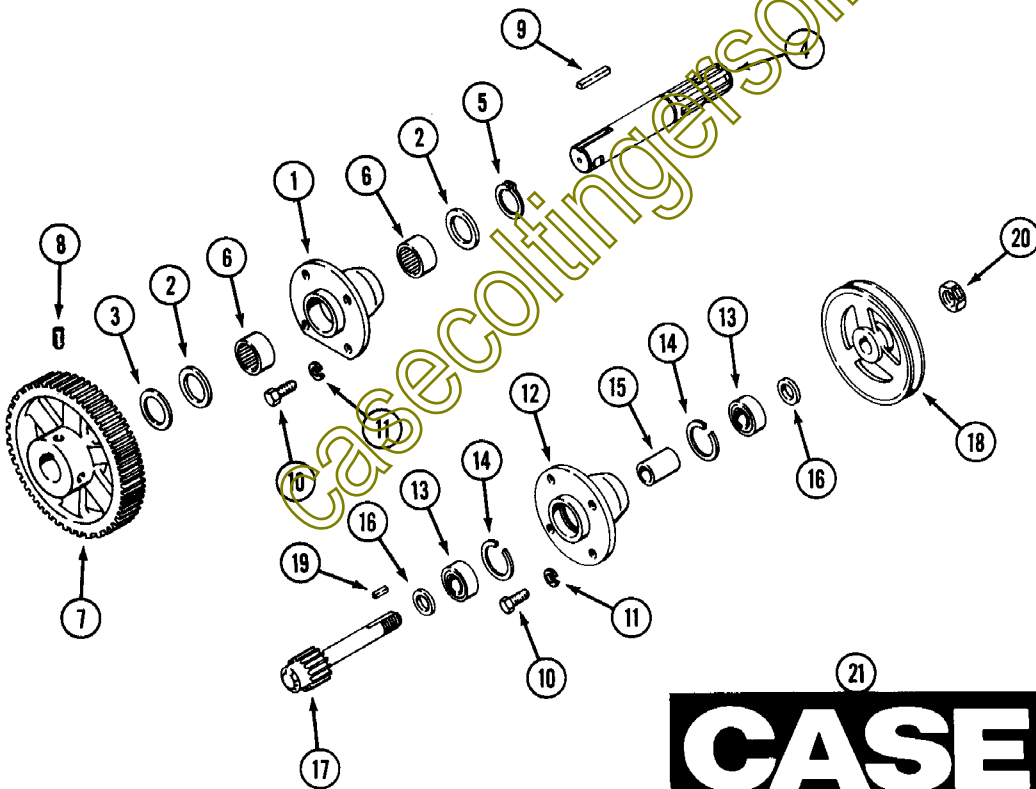
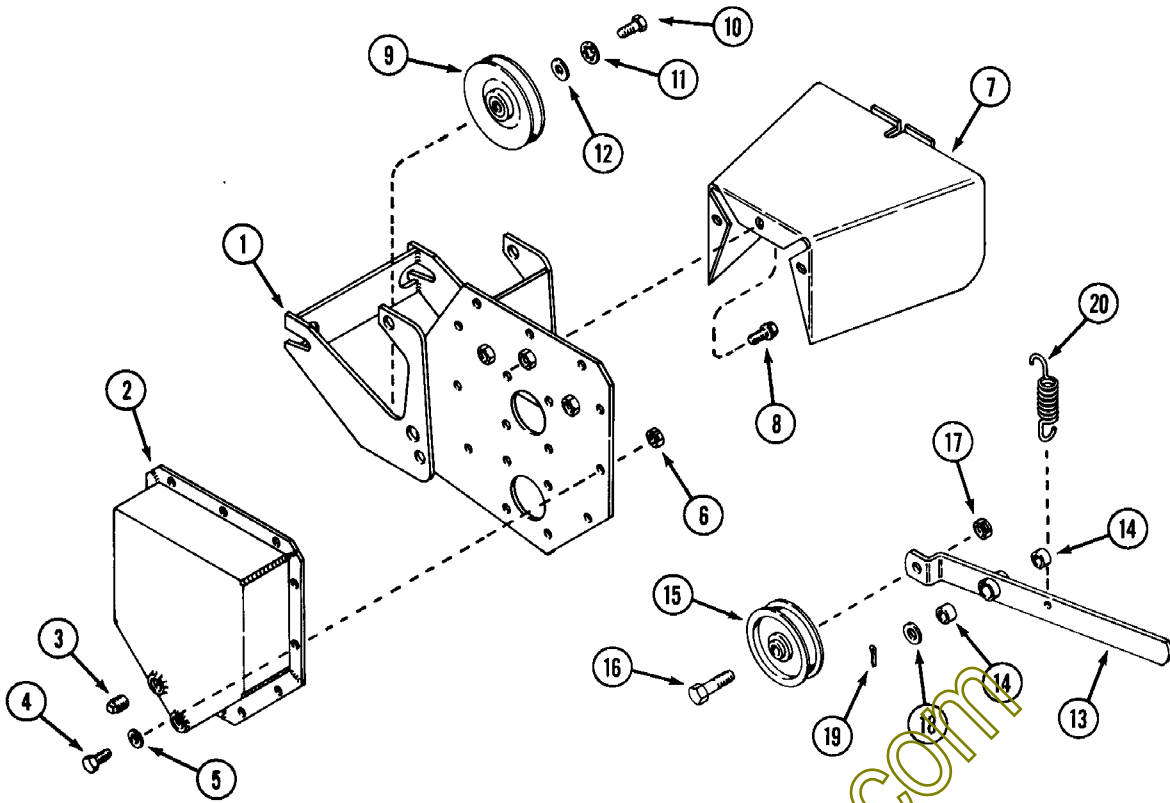
L9 HOLDING VALVE (444 BEFORE S/N 9766840)

M9 HOLDING VALVE (444 S/N 9766840 AND AFTER)

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

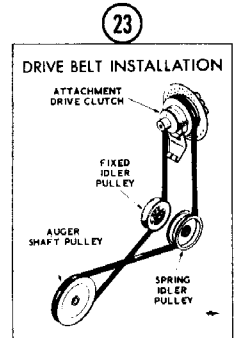
L11 WEIGHT KIT

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



CASE

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



L29 PTO MOUNTING FRAME, SHIELD, IDLERS AND GEAR COVER

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 25800	FRAME - mounting	1
2	C 25815	COVER - gear	1
3	221- 4	PLUG - oil 1/2"	1
3	221- 3	PLUG - oil 3/8"	2
4	113- 3	BOLT - 1/4" - 20 x 3/4" hex	9
5	195- 521	WASHER - 5/16"	9
6	131- 1180	NUT - 1/4" - 20 hex	9
7	C 25817	SHIELD - PTO	1
8	121- 106	BOLT - 5/16" - 18 x 1/2", special	3
9	C 25370	PULLEY - "V" groove	1
10	113- 206	BOLT - 3/8" - 16 x 3/4"	1
11	193- 68	LOCK WASHER - special	1
12	195- 103	WASHER - 3/8"	1
13	C 25822	ARM - idler	1
14	R 30880	BUSHING - sleeve	2
15	F 51571	PULLEY - flat idler	1
16	113- 412	BOLT - 1/2" - 13 x 1-3/4" hex	1
17	131- 165	NUT - 1/2" lock, hex	1
18	195- 541	WASHER - 5/8"	1
19	132- 318	PIN - cotter 5/32" x 1"	1
20	C 16870	SPRING - tension	1

L29 SPINDLES, DECALS AND BELT

1	C 25806	HOUSING - PTO shaft	1
2	C 25807	WASHER - thrust	2
3	195- 2131	WASHER - spacer	1
4	C 25808	SHAFT - spline	1
5	A 7409	RING - retainer	1
6	C 25828	BEARING - roller	2
7	C 25814	GEAR - driven	1
8	83- 68	SET SCREW - 3/8"	2
9	B 18323	KEY - 5/16" x 2"	1
10	113- 206	BOLT - 3/8" - 16 x 3/4" hex	8
11	192- 21	LOCK WASHER - 3/8"	8
12	C 17666	HOUSING - spindle	1
13	A 70280	BEARING	2
14	A 63279	RING - retaining	2
15	C 16810	SPACER - bearing	1
16	C 25541	WASHER - spacer	2
17	C 25810	SPINDLE - input	1
18	C 25813	PULLEY - spindle	1
19	H 61168	KEY - 3/16" square x 7/8"	1
20	131- 1331	NUT - 3/4" - 16 lock, hex	1
21	321- 6379	DECAL - "Case"	1
22	321- 3710	DECAL - "Warning"	1
23	C 17462	DECAL - drive belt	1
	C 23539	BELT - drive (444, 446, 448)	1
	C 23538	BELT - drive (210, 220, 222, 224)	1

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C	21505	59	15	C	22902	53	14	C	24290	19	31
C	21506	59	11	C	22903	55	5	C	24290	21	31
C	21506	59	22	C	22904	29	2	C	24301	65	24
C	21507	59	6	C	22947	53	18	C	24301	67	24
C	21507	59	7	C	22992	41	13	C	24334	57	
C	21508	59	8	C	22992	41	13	C	24408	25	1
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C	21509	59	7	C	23002	67	11	C	24433	45	3
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C	21510	59	25	C	23012	69	2	C	24447	81	
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C	21518	79	15	C	23049	27		C	24495	21	11
C	21526	41	18	C	23126	29	26	C	24652	27	3
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C	21527	41	16	C	23135	15	18	C	24743	33	16
C	21527	41	17	C	23245	33	9	C	24761	45	15
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C	21592	93	15	C	23337	89	5	C	24792	31	3
C	21814	17	1	C	23391	33	20	C	24795	45	22
C	21814	19	1	C	23407	93	9	C	24796	45	22
C	21814	21	12	C	23527	25	12	C	24800	65	21
C	21857	45	9	C	23527	35	3	C	24800	67	21
C	21872	45	1	C	23527	37	3	C	24802	51	22
C	21945	65	10	C	23538	97		C	24803	51	4
C	21989	65	12	C	23539	97		C	24804	51	3
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C	22638	49	12	C	23879	93	14	C	24822	35	25
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C	22684	25	1	C	23899	45	14	C	24828	53	7
C	22699	17	23	C	23909	45	10	C	24828	55	1
C	22699	19	23	C	23910	45	11	C	24843	51	
C	22699	21	23	C	23962	89	9	C	24851	25	8
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C	24880	63		C	25341	95	2	C	26190	15	15
C	24883	17	21	C	25342	95	3	C	26205	41	1
C	24883	19	21	C	25343	89	8	C	26206	41	2
C	24883	21	24	C	25344	89	9	C	26214	39	8
C	24884	7	21	C	25368	83	4	C	26215	39	8
C	24884	7	44	C	25369	83	3	D	22988	29	4
C	24884	9	21	C	25370	97	9	D	31945	49	4
C	24886	63	19	C	25371	85	2	D	39712	91	20
C	24887	23	9	C	25382	85	8	D	58188	57	11
C	24887	25	13	C	25390	93	8	D	58189	57	14
C	24888	17		C	25391	93	16	D	60857	61	13
C	24888	19		C	25392	93	14	D	70115	71	1
C	24889	63	1	C	25485	65	31	D	72853	61	8
C	24889	65	19	C	25485	67	10	E	78369	29	36
C	24889	67	19	C	25486	65	32	F	7232	51	8
C	24890	63	10	C	25486	67	7	F	9883	57	1
C	24891	63	11	C	25496	37	25	F	19892	27	16
C	24892	63	16	C	25499	67	17	F	51571	97	15
C	24896	65	30	C	25541	97	16	F	53109	55	2
C	24898	65	1	C	25556	55	8	F	62023	93	
C	24990	95	2	C	25563	67	30	F	62075	21	50
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C	25043	9	25	C	25791	95	3	H	218354	57	10
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C	25254	49	38	C	25817	97	7	KO	230170	7	16
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C	25305	45	22	C	26028	39	23	KO	231032	9	5
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C	25307	35	1	C	26058	5	13	KO	231281	65	22
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KO 235004	13	7	KO 235582	9	15	KO 275220	7	3
KO 235004	15	7	KO 235631	7	10	KO 275220	9	3
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138-	308	81	5	192-	23	47	2	205-	27	19	30
138-	2054	47	10	192-	23	49	44	205-	27	21	30
138-	2072	61	11	192-	23	51	44	211-	7	59	16
138-	2073	45	3	192-	23	71	12	211-	7	91	9
141-	4	45	20	192-	23	85	7	211-	9	59	5
151-	210	29	5	192-	23	87	7	211-	9	59	6
164-	40	33	4	193-	5	71	9	211-	11	91	23
164-	42	47	5	193-	6	5	9	211-	103	91	15

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211-	306	57	13	321-	18	75	2	
213-	4	45	19	321-	1788	75	5	
214-	6	93	13	321-	1834	63		
214-	9	53	13	321-	2677	73	1	
214-	103	25	4	321-	3585	73	4	
214-	272	5	11	321-	3585	75	4	
217-	292	25	21	321-	3710	97	22	
218-	445	93	7	321-	4147	73	14	
218-	457	89	2	321-	4150	73	15	
218-	485	93	6	321-	4151	73	16	
218-	494	89	3	321-	4152	73	17	
218-	927	89	4	321-	4155	73	12	
218-	5006	53	22	321-	4156	73	13	
218-	5006	95	8	321-	4162	73	8	
218-	5006	95	10	321-	4163	73	9	
218-	5006	95	12	321-	4164	73	10	
218-	5007	53	9	321-	4165	73	11	
218-	5007	53	27	321-	4693	73	5	
218-	5007	53	33	321-	4693	75	5	
218-	5007	95	6	321-	4697	73	6	
218-	5007	95	14	321-	4697	75	6	
218-	5056	79	27	321-	4699	93		
218-	5062	53	32	321-	4728	73	2	
218-	5062	95	5	321-	4728	75	2	
218-	5065	53	8	321-	4734	73	4	
218-	5066	95	7	321-	4734	75	4	
218-	5107	53	26	321-	4764	73	3	
218-	5117	95	9	321-	4764	75	3	
218-	5232	89	10	321-	4767	73	3	
218-	5251	95	13	321-	4767	75	3	
218-	5291	83	5	321-	5040	75	14	
218-	5404	95	11	321-	5097	75	1	
218-	5479	83	13	321-	5100	75	12	
219-	17	41	20	321-	5101	75	13	
219-	403	45	4	321-	5103	75	8	
219-	404	41	6	321-	5104	75	9	
219-	404	41	7	321-	5105	75	10	
219-	414	43	19	321-	5106	75	11	
219-	404	47	2	321-	6324	73	7	
219-	404	79	2	321-	6324	75	7	
219-	405	81	2	321-	6379	97	21	
221-	4	49	7	353-	406	35	7	
221-	4	51	10	353-	406	37	7	
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221-	841	59	10	353-	462	31	4	
221-	841	59	21					
221-	849	57	10					
221-	1013	51	10					
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221-	1139	83	1					
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