



**220, 222, 442 and 444
Compact Tractors
S/N 9646801 and After**
Parts Catalog C1181

casecoltingersoll.com

J I Case
A Tenneco Company



REVISION RECORD LOG

REVISION NO.	DATE INSERTED
1.	
2.	
3.	
4.	
5.	
	TS/6-6-76

MODELS 220, 222, 442 AND 444 COMPACT TRACTORS

220 - S/N 9646801 to 9656747

220 - S/N 9646801 to 9658189

224 - S/N 9646801 to 9667000

444 - S/N 9648801 to 9661261

Parts Catalog No. C1181

Part Publ 2000

Published November 1978

Note: This parts catalog replaces the
previous issue - B1181 - which is
obsolete and should be discarded.

casecoltingersoll.com

J I Case
A Tenneco Company



Service Parts Supply

700 State Street
Racine, Wisconsin 53404

Printed in U.S.A.

REVISION RECORD LOG

REVISION NO.	DATE	REVISION
1		
2		
3		
4		
5		



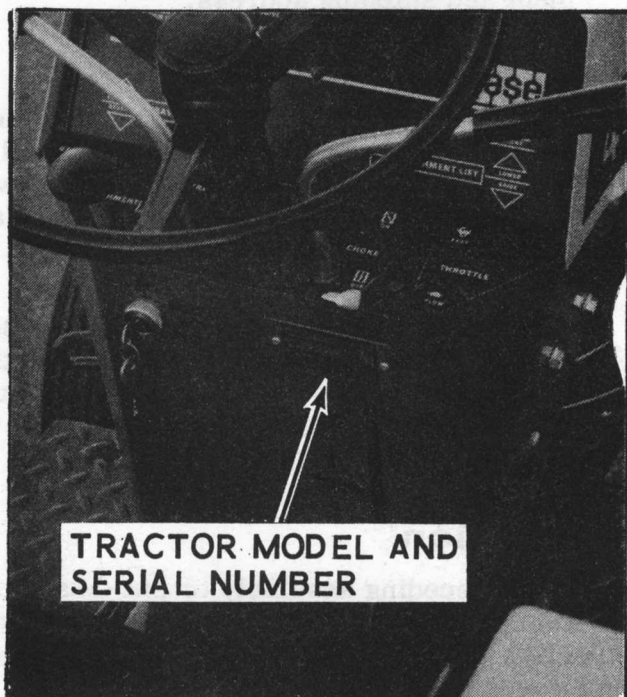
casecoltingersoil.com



Case
A Tenneco Company
Service Parts Dept.
700 State Street
Pacine, Wisconsin 53404

Printed in U.S.A.

CASE 220, 222, 442 AND 444 COMPACT TRACTORS



TRACTOR MODEL DESIGNATIONS	ENGINE MODEL DESIGNATIONS
220 TRACTOR	K-241-A C15964 Engine
222 - 442 TRACTOR	K-301-A C15965 Engine (SERVICE WITH C18983, C19021 and C20182)
444 TRACTOR	K-321-A C16695 Engine (SERVICE WITH C24297)

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.

Indexes

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

Illustrations

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

Orders

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

Changes

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

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

Indented Description

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

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

Terms "Right Hand" and "Left Hand"

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

ALPHABETICAL INDEX ENGINE SECTION

220 222 &
442 444

220 222 &
442 444

Page

Page

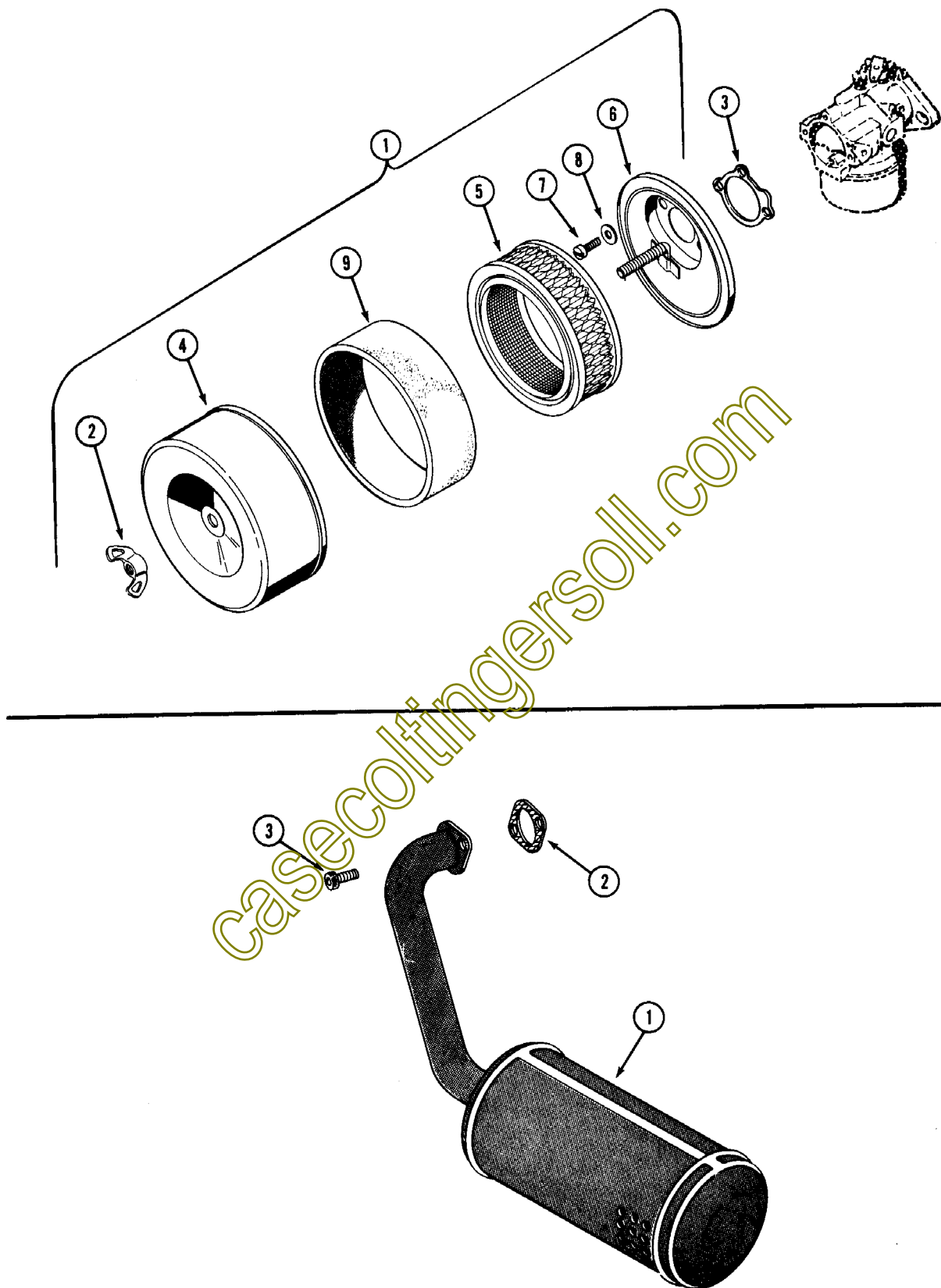
Air Cleaner	5	5
Battery	63	63
Belt, Starter-Generator	25	25
Breather, Crankcase	7	9
Camshaft	7	9
Carburetor	25	25
Connecting Rod	11-13	15
Crankshaft	11-13	15
Cylinder Block	17-19	21
Cylinder Head	17-19	21
Electrical System	63-65	63-65
Engine Block & Attaching Parts	17-19	21
Exchanger, Heat	49	49
Exhaust System	5	5
Fan	33	33

Filter, Breather	7	9
Flywheel	17-19	21
Fuel Strainer	25	25
Fuel System	25	25
Gasket Kits	17-19	21
Governor	29	29
Muffler	5	5
Oil Pan	17-19	21
Piston	11-13	15
Pulley, Clutch	31-33	31-33
Spark Plug	63	63
Starter-Generator	61	61
Tank, Fuel	25	25
Throttle Linkage	29	29
Valves	7	9

BASIC TRACTOR SECTION

Axle, Front	39
Axle, Rear	47
Baffles & Shrouds	25
Brakes	43
Control-Speed	51
Decals	67
Electrical System	63-65
Fenders	37
Frame	35
Grille	35
Hitch	45
Hood	35
Hydraulics	31-49
Coupling, Pump Drive	49-51
Hoses, Lines & Fittings	49
Motor, Hydraulic Drive	55-57
Pump	49-51
Valve, Control	53
Valve Control Linkage	51

Implement Lift Lever	45
Instruments	63
Models D8 & D10 Wheel Weights	69
Model H26 Three Point Hitch	73
Model H27 Three Point Hitch Adapter	75
Model H22 & F24 Sleeve Hitch	77
Model H13 Weight Box	79
Model H18 Counterweight Brackets	79
Model H30 Hydraulic Lift	71
Pulley Clutch	33
Seat, Operator's	37
Steering Wheel & Gear	41
Tail Lamp	63
Tool Box	37
Transmission	47
Wheels, Front & Rear	43

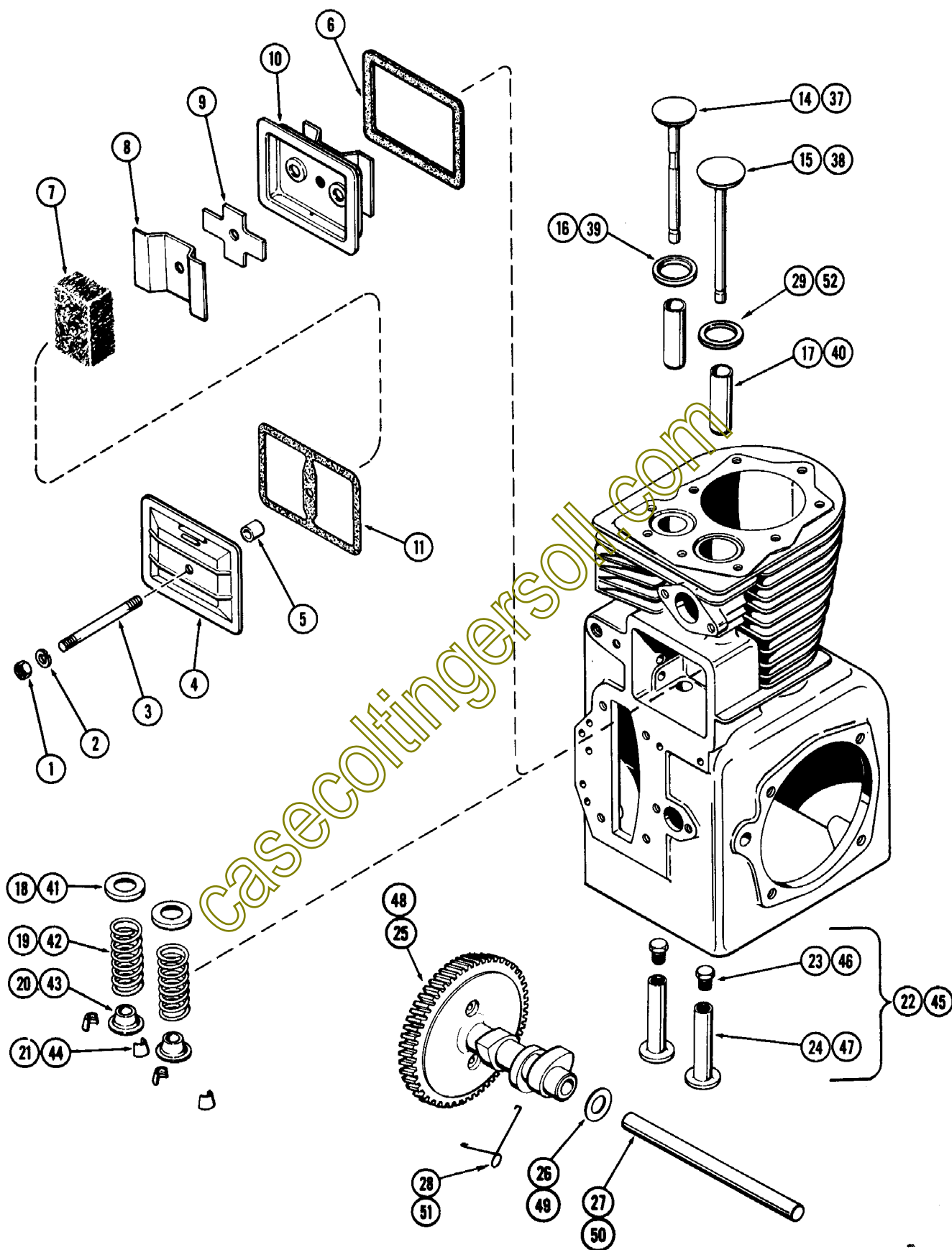


AIR CLEANER

REF. PART NO.	DESCRIPTION	REQ'D
1 KOA235100	AIR CLEANER ASSEMBLY	1
2 B 90370	NUT - wing 3/8" NC	1
3 KO 275341	GASKET - air horn	1
4 NSS	COVER - air cleaner (Order KOA235100)	1
5 A 70090	ELEMENT - air cleaner	1
6 NSS	BASE - air cleaner (Order KOA235100)	1
7 177- 94	SCREW - fillister head 10-32 x 5/16"	3
8 195- 512	WASHER - plain 3/16"	3
9 KO 237421	PRE-CLEANER (optional)	1

EXHAUST SYSTEM

1 C 18039	MUFFLER - exhaust	1
2 C 10372	GASKET - exhaust pad	1
3 61- 510	SCREW - 5/16-18 x 5/8" Socket Head	2



CRANKCASE BREATHER

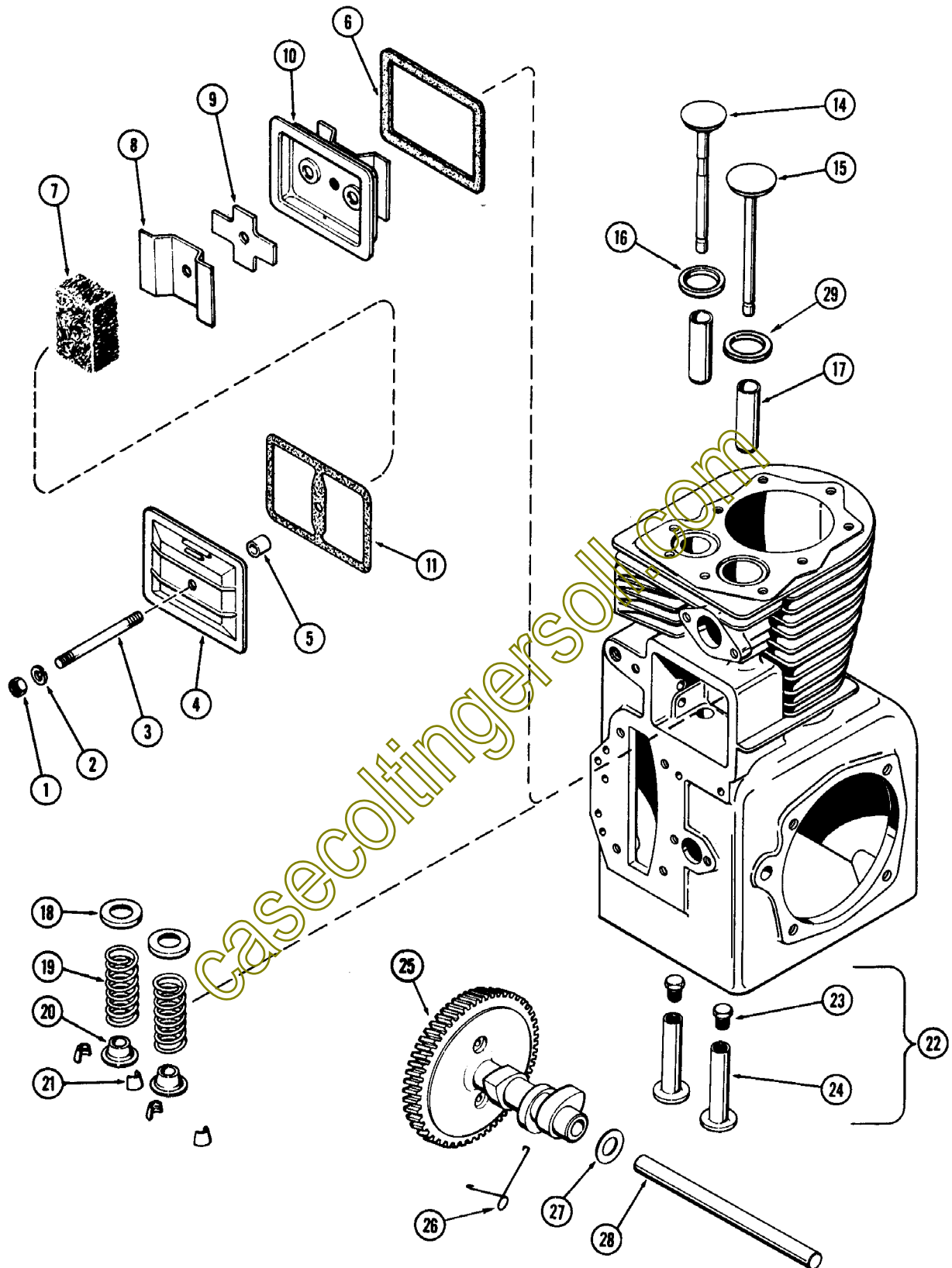
REF. PART NO.	DESCRIPTION	REQ'D
1 25- 104	NUT - 1/4" NC Hex	1
2 92- 4	LOCKWASHER - 1/4"	1
3 KO 275220	STUD - valve cover	1
4 KO 275143	COVER - valve	1
5 KO 231032	SEAL - breather	1
6 KO 235048	GASKET - breather plate	1
7 KO 235118	FILTER - breather	1
8 KO 235117	BAFFLE - breather	1
9 KO 235047	REED-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

220 CAMSHAFT AND VALVES

14 KO 235826	VALVE - exhaust	1
15 KO 235008	VALVE - intake	1
16 KO 230170	INSERT - exhaust valve seat	1
17 KO 235007-S	GUIDE - valve	2
18 KO 235011	SEAT - valve spring	2
19 KO 235010	SPRING - valve	2
20 KO 230011	RETAINER - valve spring	2
21 C 24844	LOCK - valve retainer	4
22 KOD235327	LIFTER ASSEMBLY	2
23 NSS	SCREW - tappet adjusting	1
24 NSS	LIFTER - valve	1
25 C 24611	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
29 KO 230265	INSERT - intake valve seat	1

222 AND 442 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 24844	LOCK - valve retainer	4
45 KOD235327	LIFTER ASSEMBLY	2
46 NSS	SCREW - tappet adjusting	1
47 NSS	LIFTER - valve	1
48 C 24611	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
52 KO 230265	INSERT - intake valve seat	1

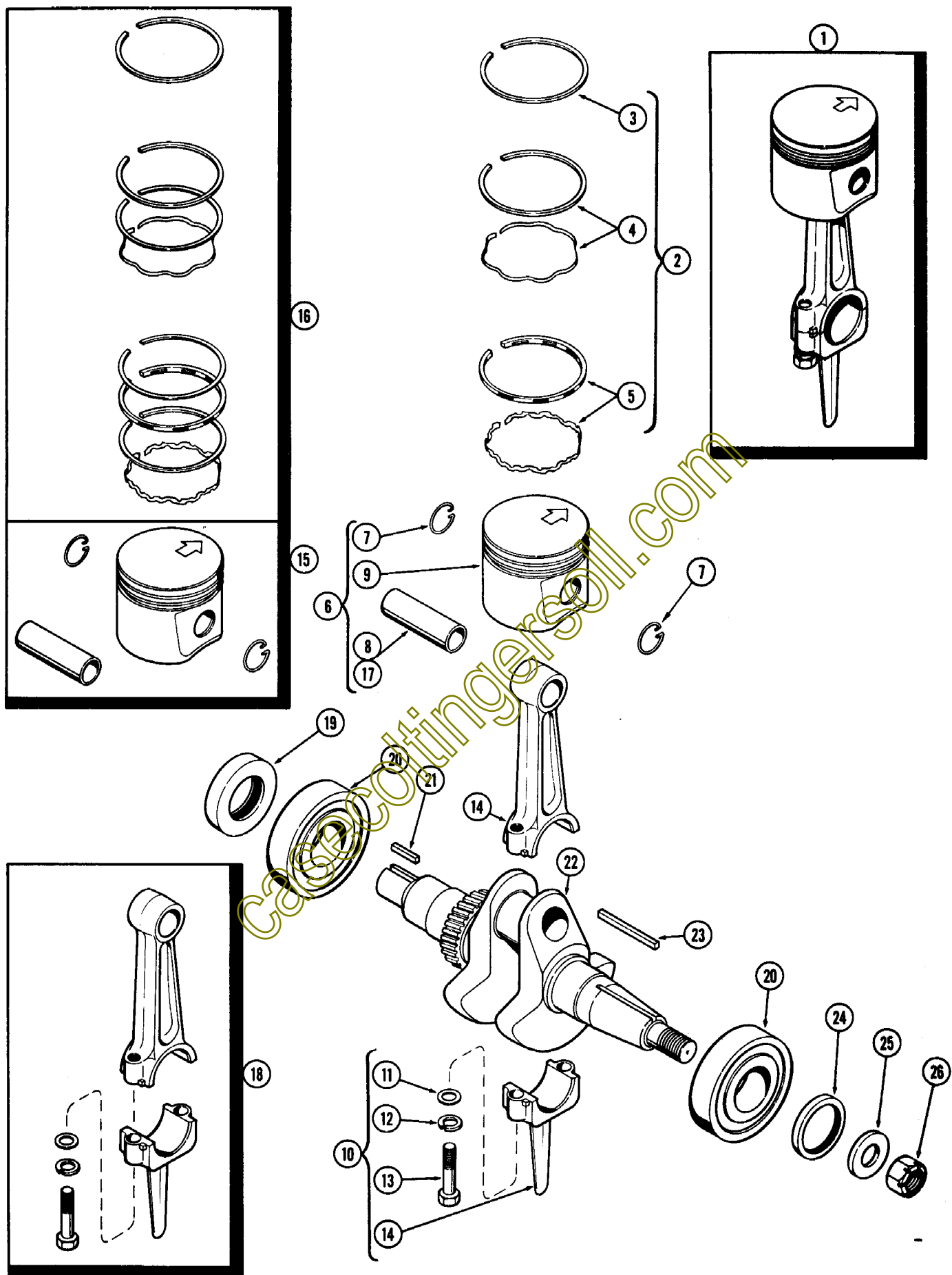


444 CRANKCASE BREATHER

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

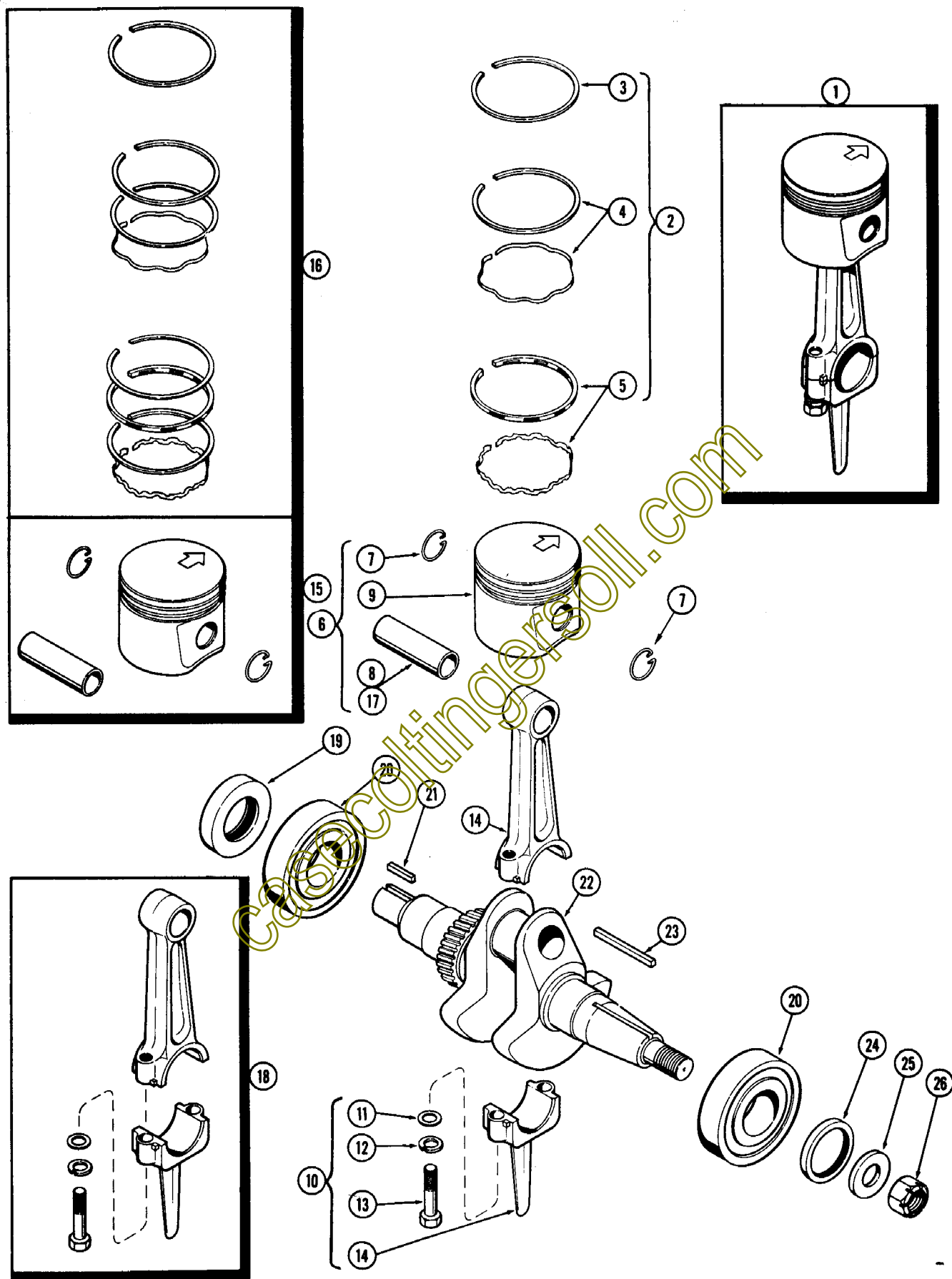
444 CAMSHAFT AND VALVES

14	KO 235838	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	LOCK - valve retainer	2
22	KOD235327	LIFTER ASSEMBLY	2
23	NSS	SCREW - tappet adjusting	1
24	NSS	LIFTER - valve	1
25	C 24611	CAMSHAFT ASSEMBLY (includes actuating spring)	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
29	KO 230265	INSERT - intake valve seat	1



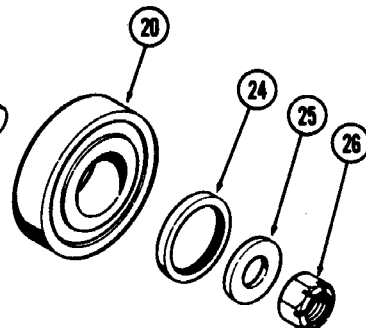
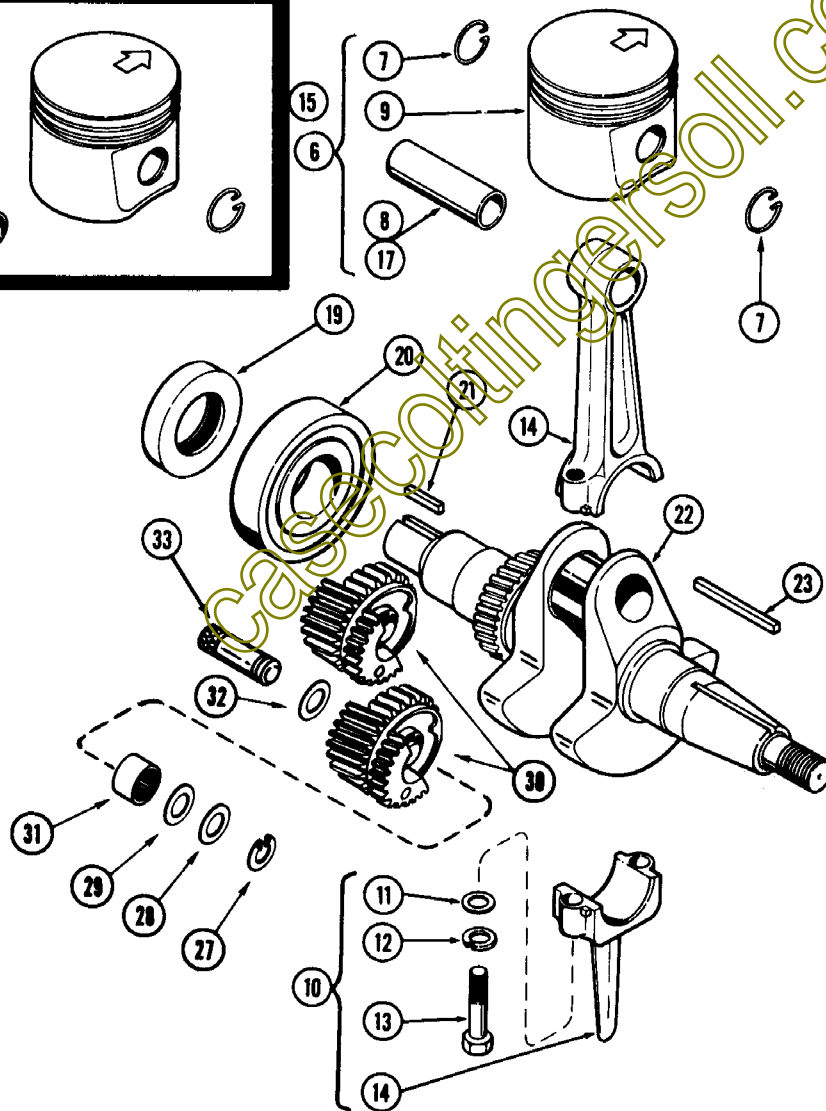
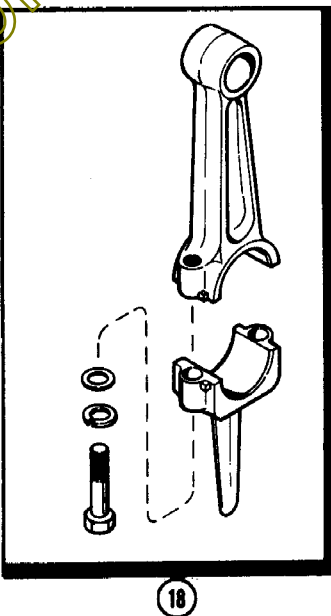
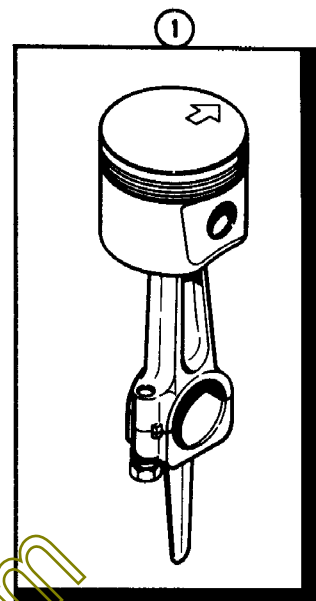
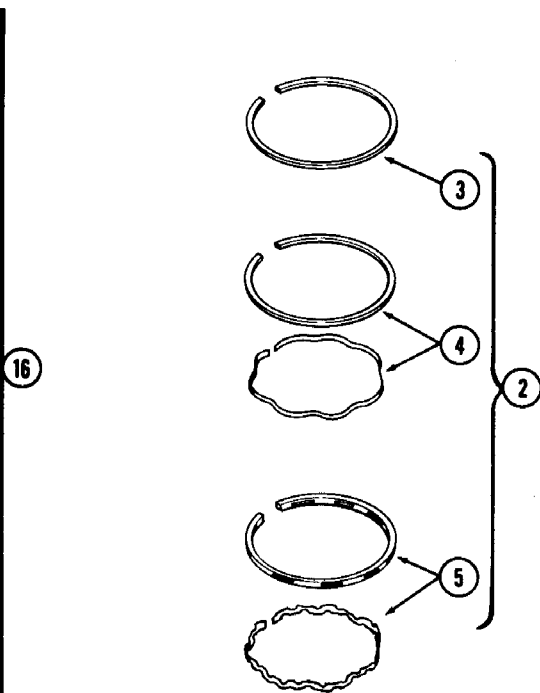
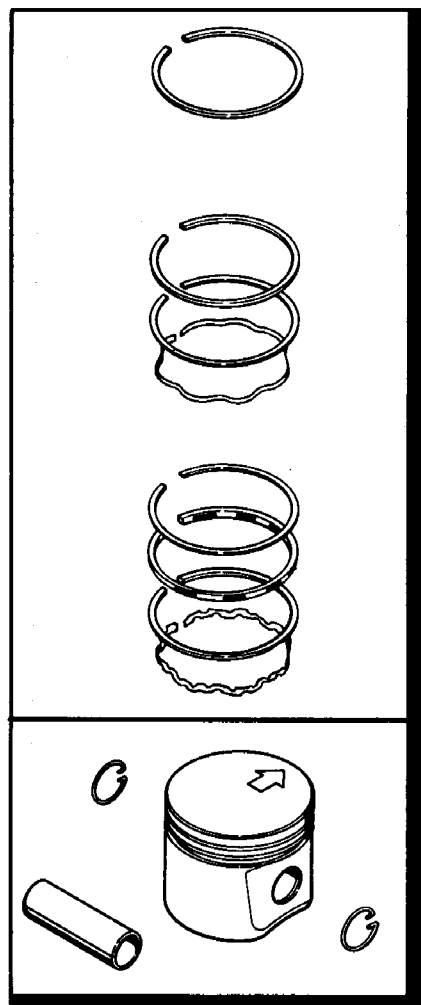
220 CRANKSHAFT, PISTON — CONNECTING ROD

REF. PART NO.	DESCRIPTION	REQ'D
1 NSS	PISTON AND ROD ASSEMBLY (Std. size)	1
2 KO 235287	RING SET - piston (For oversize, see item 16)	1
3 NSS	RING - top compression	1
4 NSS	RING - 2nd compression (Includes expander)	1
5 NSS	RING - oil (Includes expander)	1
6 KOA235611	PISTON ASSEMBLY (For oversize, see item 15)	1
7 KO 235004	RETAINER - piston pin	2
8 KO 235572	PIN - piston	1
9 NSS	PISTON	1
10 KOA235139	CONNECTING ROD ASSEMBLY (For undersize, see item 18)	1
11 KO 235003	WASHER - special	2
12 92- 6	LOCKWASHER	2
13 KO 236611	SCREW - cap, connecting rod	2
14 NSS	ROD - connecting	1
15 KOA235569	PISTON ASSEMBLY - .010" oversize	1
15 KOA235571	PISTON ASSEMBLY - .020" oversize	1
15 KOA235616	PISTON ASSEMBLY - .030" oversize	1
16 KO 235288	RING SET - piston .010" oversize	1
16 KO 235289	RING SET - piston .020" oversize	1
16 KO 235290	RING SET - piston .030" oversize	1
17 KO 235573	PIN - piston, .005" oversize	1
18 C 18101	CONNECTING ROD ASSEMBLY - .010" undersize	1
19 R 16287	OIL SEAL - crankshaft rear	1
20 40035	BEARING - crankshaft bail	2
21 W 5063-S	KEY - 1/4" Sq. x 3/4" (Pump Coupling)	1
22 KOB235711	CRANKSHAFT	1
23 A 27001	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel)	1
24 C 18097	OIL SEAL - crankshaft front	1
25 C 18095	WASHER - 5/8"	1
26 131- 580	NUT - special Marsden 5/8" NF	1



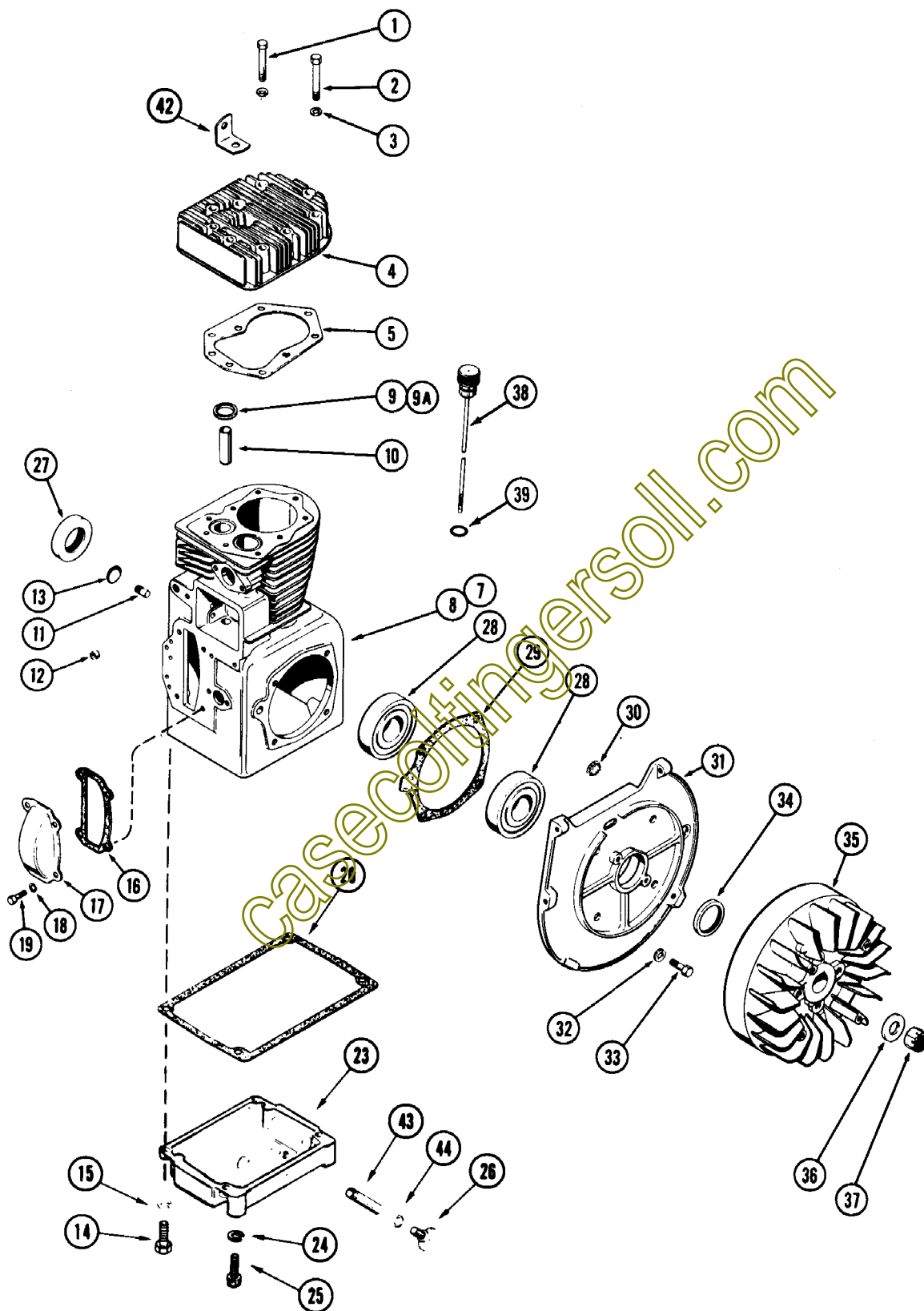
222 AND 442 CRANKSHAFT, PISTON — CONNECTING ROD

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	KOA235827	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235811	RETAINER - piston pin	2
8	NSS	PIN - piston	1
9	NSS	PISTON	1
10	KOA237344	CONNECTING ROD ASSEMBLY (For undersize, see item 18)	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER	2
13	KO 236611	SCREW - cap, connecting rod	2
14	NSS	ROD - connecting	1
15	KOA235865	PISTON ASSEMBLY - .010" oversize	1
15	KOA235866	PISTON ASSEMBLY - .020" oversize	1
15	KOA235867	PISTON ASSEMBLY - .030" oversize	1
16	KO 235890	RING SET - piston .010" oversize	1
16	KO 235891	RING SET - piston .020" oversize	1
16	KO 235892	RING SET - piston .030" oversize	1
17	KO 235868	PIN - piston .005" oversize	1
18	C 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	KOB235949	CRANKSHAFT	1
23	A 27001	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel)	1
24	C 18097	OIL SEAL - crankshaft front	1
25	C 18095	WASHER - 5/8"	1
26	131- 580	NUT - special Marsden 5/8" NF	1



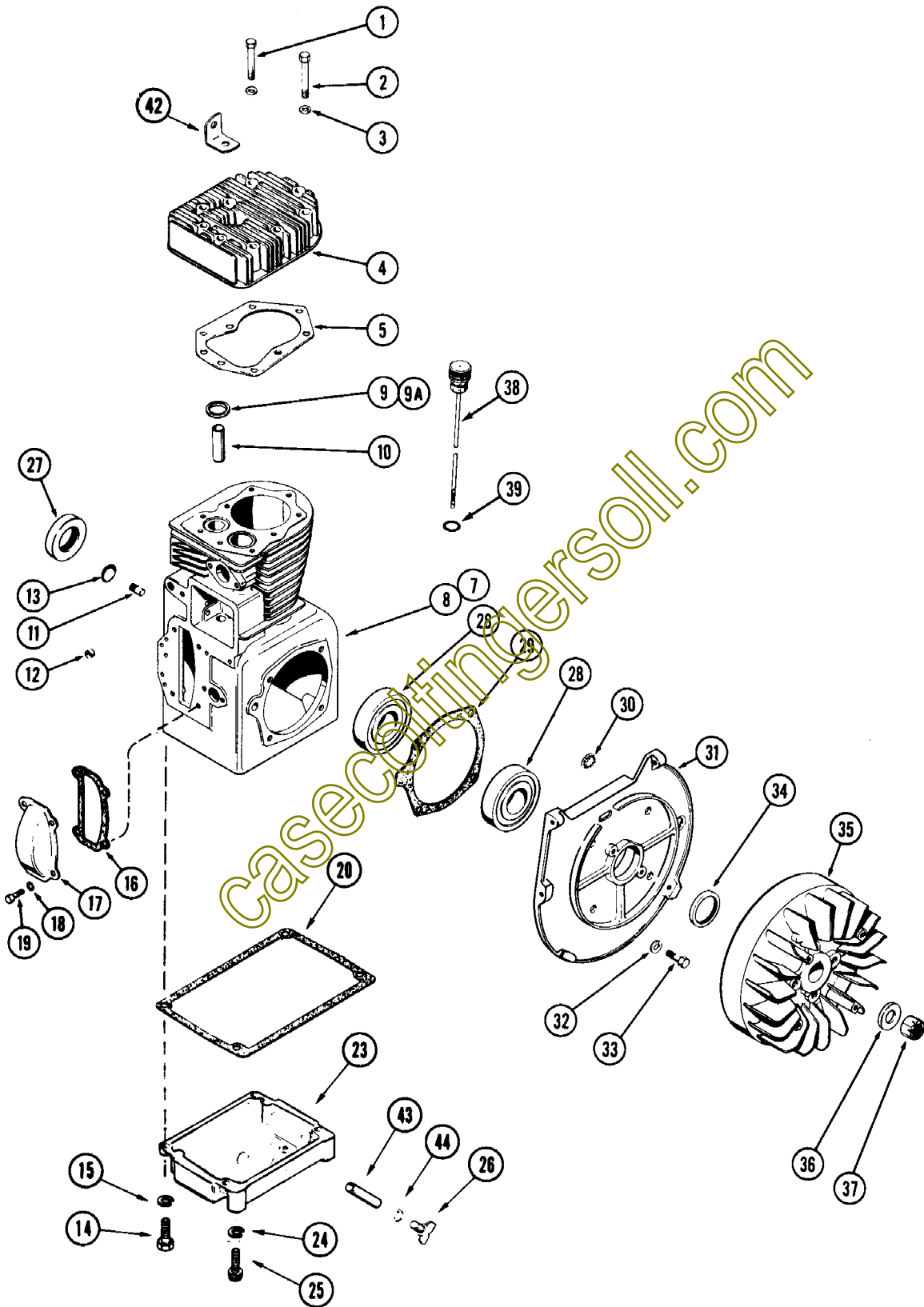
444 CRANKSHAFT, PISTON — CONNECTING ROD

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	KOA237401	PISTON ASSEMBLY (For oversize, see item 15)	1
7	KO 235811	RETAINER - piston pin	2
8	NSS	PIN - piston	1
9	NSS	PISTON	1
10	KOA237344	CONNECTING ROD ASSEMBLY (For undersize, see item 18) ...	1
11	KO 235003	WASHER - special	2
12	92- 6	LOCKWASHER - 3/8"	2
13	KO 236611	SCREW - cap, connecting rod	2
14	NSS	ROD - connecting	1
15	KOA237403	PISTON ASSEMBLY - .010" oversize	1
15	KOA237404	PISTON ASSEMBLY - .020" oversize	1
15	KOA237405	PISTON ASSEMBLY - .030" oversize	1
16	KO 236764	RING SET - piston .010" oversize	1
16	KO 236765	RING SET - piston .020" oversize	1
16	KO 236766	RING SET - piston .030" oversize	1
17	KO 235868	PIN - piston .005" oversize	1
18	C 23135	CONNECTING ROD ASSEMBLY - .010 undersize	1
19	R 16287	OIL SEAL - crankshaft rear	1
20	40035	BEARING - crankshaft pin	2
21	W 5063-S	KEY - 1/4" Sq. x 3/4" (Pump Coupling)	1
22	C 25054	CRANKSHAFT	1
23	A 27001	KEY - flat 3/16" x 3/16" x 1-3/8" (Flywheel)	1
24	C 18097	OIL SEAL - crankshaft front	1
25	C 18095	WASHER - 5/8"	1
26	131- 580	NUT - special Marsden 5/8" NF	1
27	C 15060	RETAINER - external 1/2" ID	2
28	C 22754	SPACER -	2
29	C 22754	SPACER -	UAR
30	KOA236507	GEAR ASSEMBLY - counter balance	2
31	KO 236506	BEARING - gear assembly	2
32	C 22754	SPACER -	2
33	KO 236559	SHAFT - counterbalance stub	2



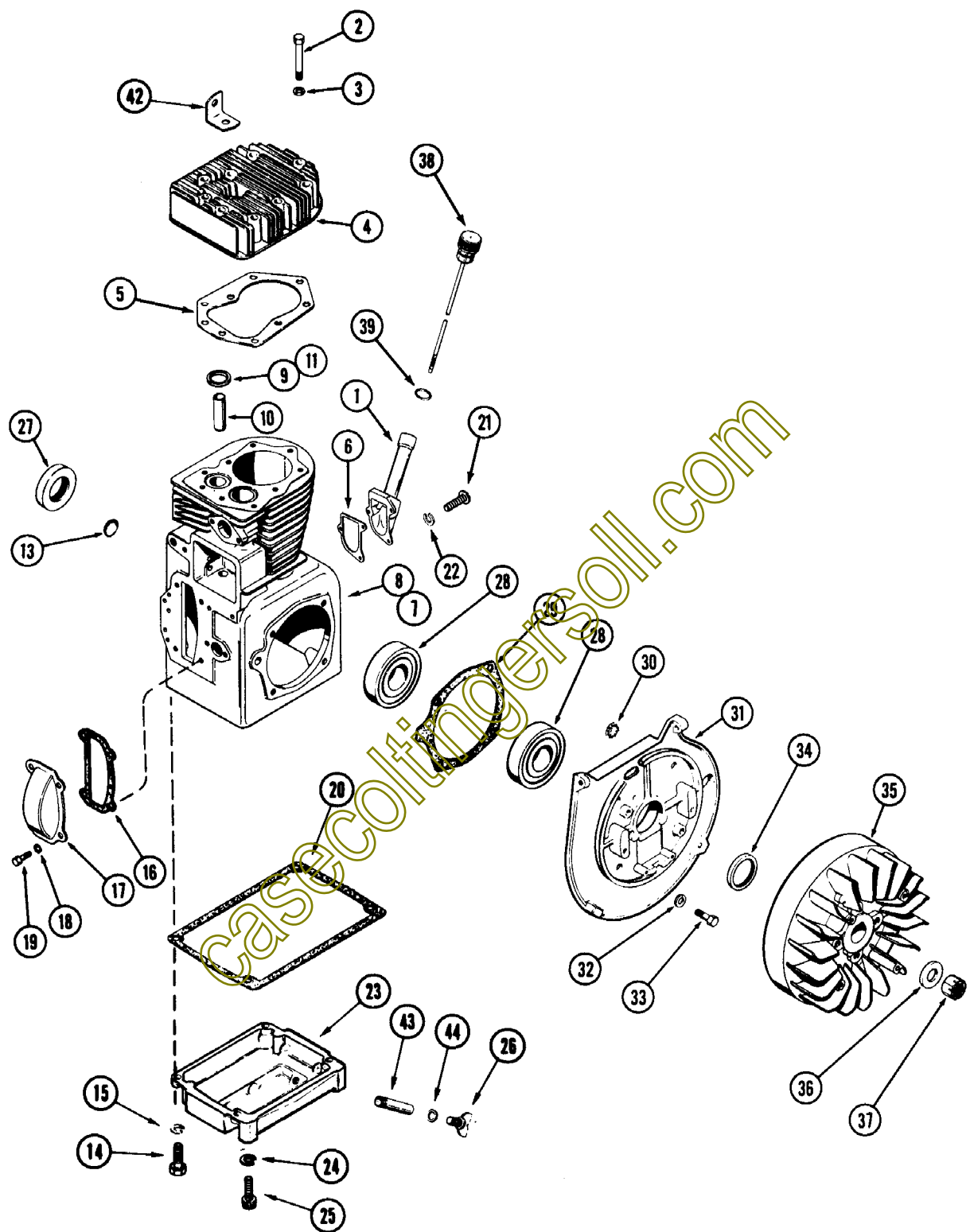
220 ENGINE BLOCK AND ATTACHING PARTS

REF.	PART NO.	DESCRIPTION	REQ'D
1	KO 271077	BOLT - cylinder head (Length 2-1/4")	6
2	KO 235175	BOLT - cylinder head (Length 2-1/2")	3
3	KO 270889	WASHER - cylinder head bolt	9
4	KO 236546	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
7	KOC 236303	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft, rod assembly, camshaft, valves, bearings and plate)	1
8	C 24138	BLOCK ASSEMBLY - cylinder, stripped (Std. bore)	1
9	KO 230170	INSERT - exhaust valve	1
9A	KO 230265	INSERT - intake valve seat	1
10	KO 235007-S	GUIDE - valve	2
11	KO 235125-S	SHAFT - stub, governor	1
12	V 34418	BEARING - needle, governor shaft	1
13	41- 18	PLUG - expansion	1
14	113- 206	BOLT - 3/8" x 7/8" NC hex plated	4
15	192- 21	LOCKWASHER - 3/8" plated	4
16	KO 235025	GASKET - camshaft cover	1
17	KO 235026	COVER - camshaft gear	1
18	192- 19	LOCKWASHER - 1/4" plated	4
19	113- 6	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan	1
23	KO 237808	BASE - oil pan	1
24	192- 21	LOCKWASHER - 3/8" plated	4
25	61- 616	BOLT - 3/8" x 1" NC socket head	4
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - shim, bearing plate, .010"	6
29	KO 235070	GASKET - shim, .010"	UAR
30	205- 27	PLUG - button, timing hole	1
31	C 22700	PLATE - bearing	1
32	192- 21	LOCKWASHER - 3/8" plated	4
33	113- 207	BOLT - 3/8" x 1" NC plated	4
34	C 18097	OIL SEAL - crankshaft front	1
35	KO 235818	FLYWHEEL	1
36	195- 541	WASHER - special, plated	1
37	131- 580	NUT - special, Marsden 5/8" NF	1
38	C 14953	DIPSTICK ASSEMBLY	1
39	A 27365	"O" RING - dipstick	1
42	KO 235748	STRAP - lifting	1
43	C 18814	NIPPLE - oil drain extension	1
44	C 14906	GASKET - plug, oil drain	1



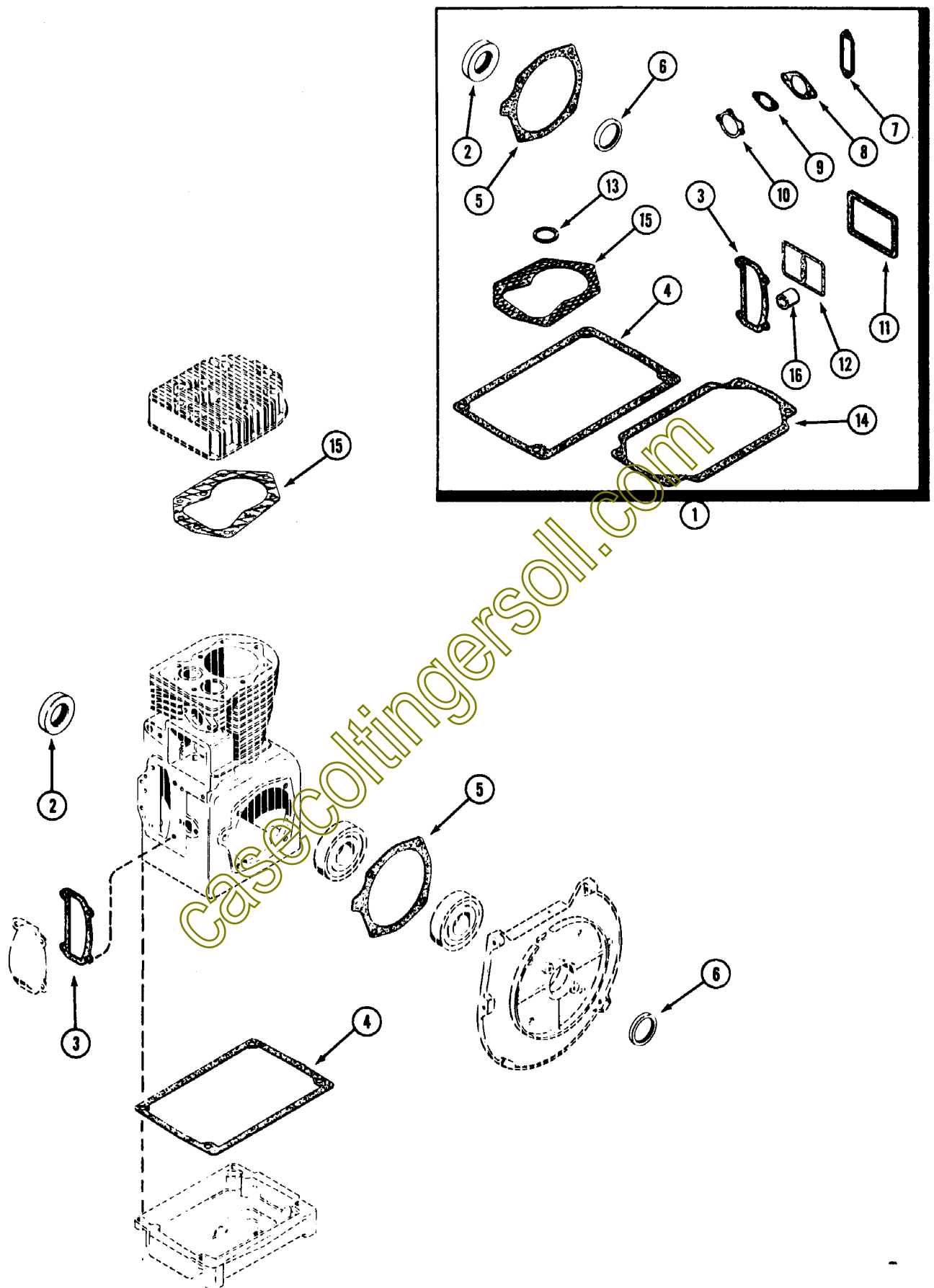
222 AND 442 ENGINE BLOCK AND ATTACHING PARTS

REF.	PART NO.	DESCRIPTION	REQ'D
1	KO 271077	BOLT - cylinder head (Length 2-1/4")	6
2	KO 235175	BOLT - cylinder head (Length 2-1/2")	3
3	KO 270889	WASHER - cylinder head bolt	9
4	KO 236438	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
7	C 24141	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft, rod assembly, camshaft, valves, bearings and plate)	1
8	KOA237127-S	BLOCK ASSEMBLY - cylinder, standard bore	1
9	KO 230170	INSERT - exhaust valve	1
9A	KO 230265	INSERT - intake valve seat	1
10	KO 235007-S	GUIDE - valve	2
11	KO 235125-S	SHAFT - stub governor	1
12	V 34418	BEARING - needle, governor shaft	1
13	41- 18	PLUG - expansion	1
14	113- 206	BOLT - 3/8" x 1-1/4" NC hex plated	4
15	192- 21	LOCKWASHER - 3/8" plated	4
16	KO 235025	GASKET - camshaft cover	1
17	KO 235026	COVER - camshaft gear	1
18	192- 19	LOCKWASHER - 1/4" plated	4
19	113- 6	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan	1
23	KO 237808	BASE - oil pan	1
24	192- 21	LOCKWASHER - 3/8" plated	4
25	61- 616	BOLT - 3/8" x 1" NC socket head	4
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - shim, bearing plate .010"	6
29	KO 235070	GASKET - shim, .010"	UAR
30	205- 27	PLUG - button, timing hole	1
31	C 22700	PLATE - bearing	1
32	192- 21	LOCKWASHER - 3/8" plated	4
33	113- 207	BOLT - 3/8" x 1" NC plated	4
34	C 18097	OIL SEAL - crankshaft front	1
35	KO 235818	FLYWHEEL	1
36	195- 541	WASHER - special, plated	1
37	131- 580	NUT - special, Marsden	1
38	C 14958	DIPSTICK ASSEMBLY	1
39	A 27365	"O" RING - dipstick	1
42	KO 235748	STRAP - lifting	1
43	C 14398	NIPPLE - oil drain extension	1
44	C 14906	GASKET - plug, oil drain	1



444 ENGINE BLOCK AND ATTACHING PARTS

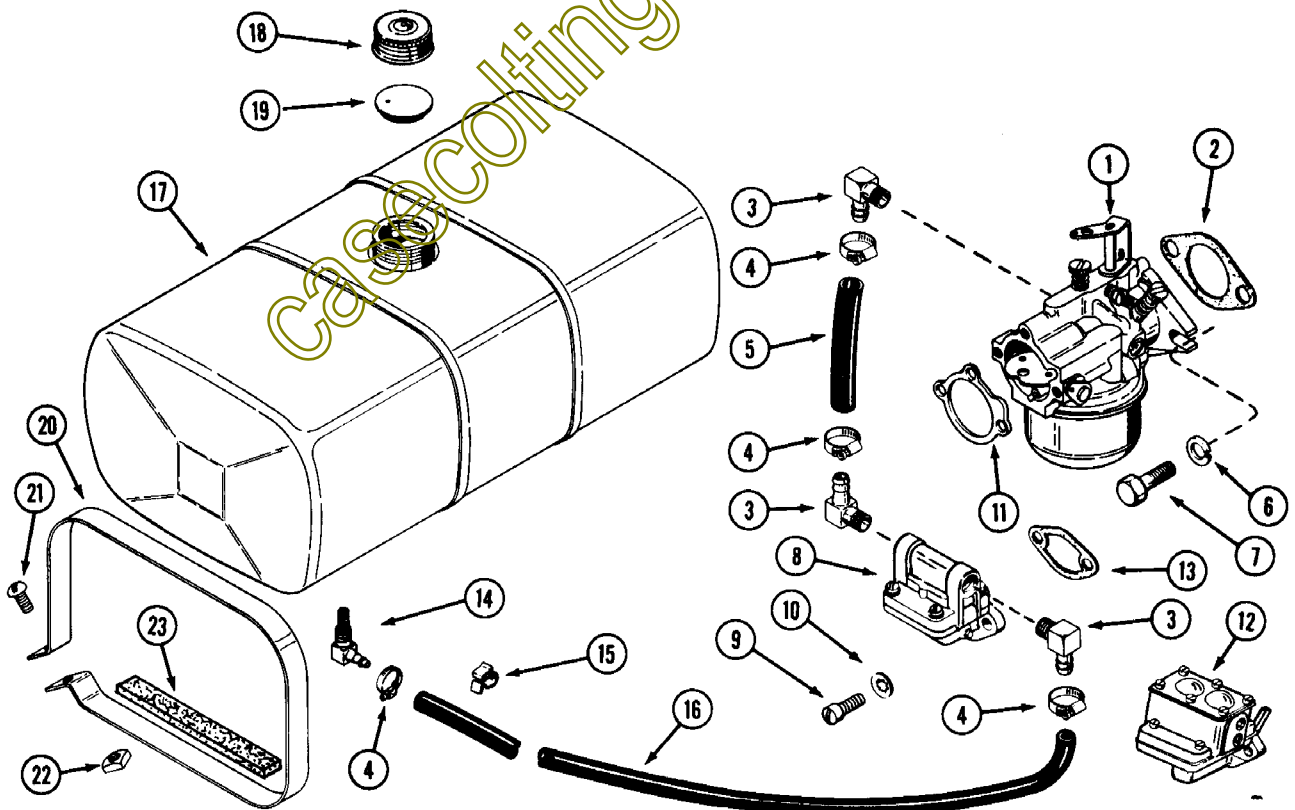
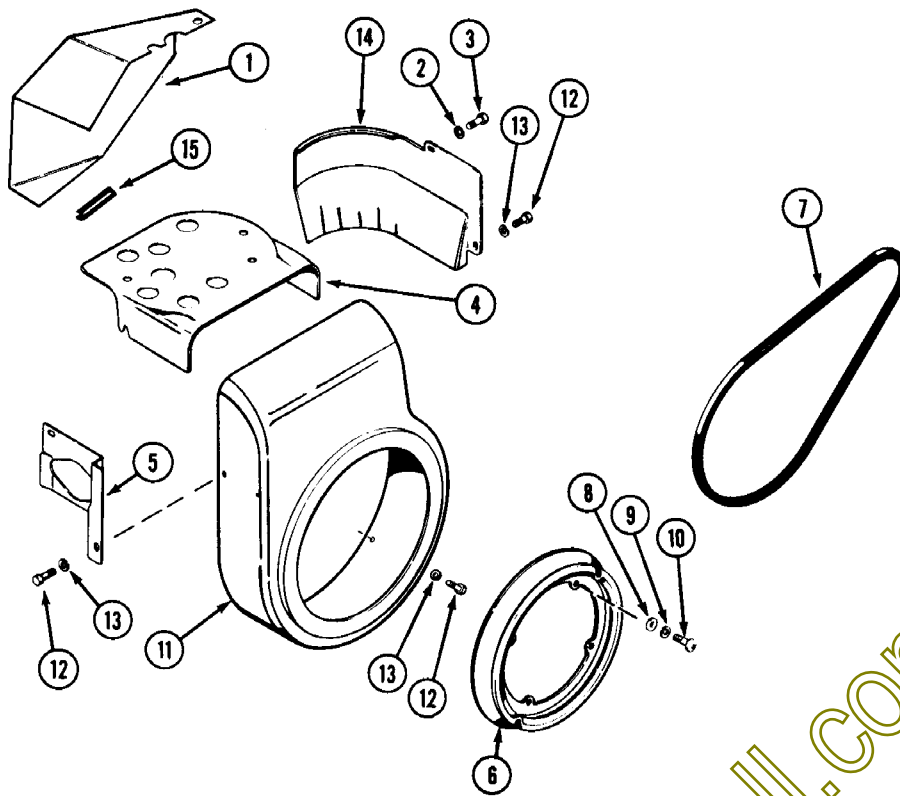
REF.	PART NO.	DESCRIPTION	REQ'D
1	KOA236960	FILLER TUBE	1
2	KO 235175	BOLT - cylinder head special (Length 2-1/2")	9
3	KO 270889	WASHER - cylinder head bolt	10
4	KO 237830	HEAD - cylinder	1
5	KO 237658	GASKET - head	1
6	KO 237064	GASKET - filler tube	1
7	KOC237182	BLOCK ASSEMBLY - cylinder, short (Includes crankshaft, piston, rod assembly, camshaft, valves, bearings and plate) . .	1
8	KOA237033-S	BLOCK ASSEMBLY - cylinder, standard bore	1
9	KO 230170	INSERT - exhaust valve	1
10	KO 235007-S	GUIDE - valve	2
11	KO 230265	INSERT - intake valve	1
13	41- 18	PLUG - expansion	1
14	113- 206	BOLT - 3/8" x 1-1/4" NC hex plated	4
15	192- 21	LOCKWASHER - 3/8" plated	4
16	KO 235025	GASKET - camshaft cover	1
17	KO 235026	COVER - camshaft gear	1
18	192- 19	LOCKWASHER - 1/4" plated	4
19	113- 6	BOLT - 1/4" x 1/2" NC plated	4
20	KO 235353	GASKET - oil pan	1
21	173- 221	SCREW - #10 x 7/16" round head machine	3
22	193- 99	LOCKWASHER - #10 internal tooth	7
23	KO 237808	BASE - oil pan	1
24	192- 21	LOCKWASHER - 3/8" plated	4
25	61- 616	BOLT - 3/8" x 1" NC socket head	4
26	C 14399	PLUG - oil drain	1
27	R 16287	OIL SEAL - crankshaft rear	1
28	40035	BEARING - crankshaft ball	2
29	KO 235757	GASKET - shim, bearing plate .312"	1
29	KO 235070	GASKET - shim, .010"	UAR
31	C 22700	PLATE - bearing	1
32	192- 21	LOCKWASHER - 3/8" plated	4
33	113- 207	BOLT - 3/8" x 1" NC plated	4
34	C 18097	OIL SEAL - crankshaft front	1
35	KO 235818	FLYWHEEL	1
36	195- 541	WASHER - special, plated 21/32" ID x 1-3/8" OD x 1/4"	1
37	131- 580	NUT - special Marsden 5/8"	1
38	C 14954	DIPSTICK ASSEMBLY	1
39	A 27365	"O" RING - dipstick	1
42	KO 235748	STRAP - lifting	1
43	C 14398	NIPPLE - oil drain extension	1
44	C 14906	GASKET - plug, oil drain	1



ENGINE GASKET KIT

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	KIT - engine gasket (order C23858, R16289 and C18097)	1
3	KO 235025	GASKET - camshaft cover	1
4	KO 235353	GASKET - oil pan	1
5	KO 235757	GASKET - shim, bearing plate (.010")	6
5	KO 235070	GASKET - shim (.010")	UAR
7	KO 220174	GASKET - breaker cover	1
8	C 23860	GASKET - carburetor flange	1
9	C 22738	GASKET - fuel pump flange	1
10	KO 275341	GASKET - carburetor air horn	1
11	KO 235048	GASKET - breather plate	1
12	KO 275144	GASKET - valve cover	1
13	B 53393	GASKET - fuel strainer bowl (not used)	1
14	KO 235057	GASKET - pan (not used)	1
15	KO 237658	GASKET - cylinder head (10, 12 & 14 hp engines)	1
16	KO 231032	SEAL - breather (14 hp engine)	1

casecollecting.com

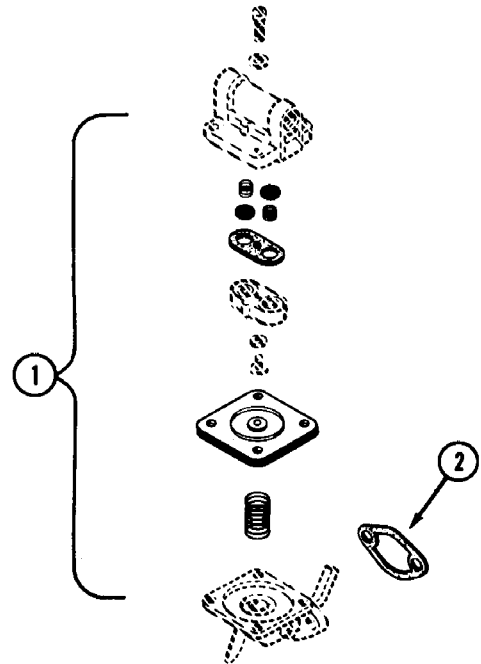
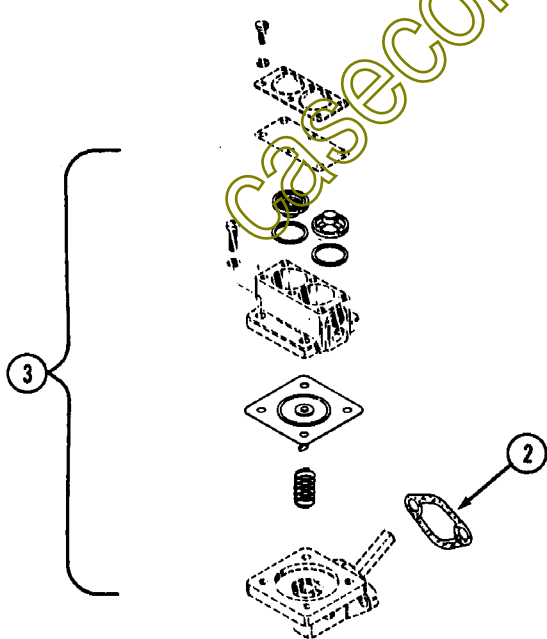
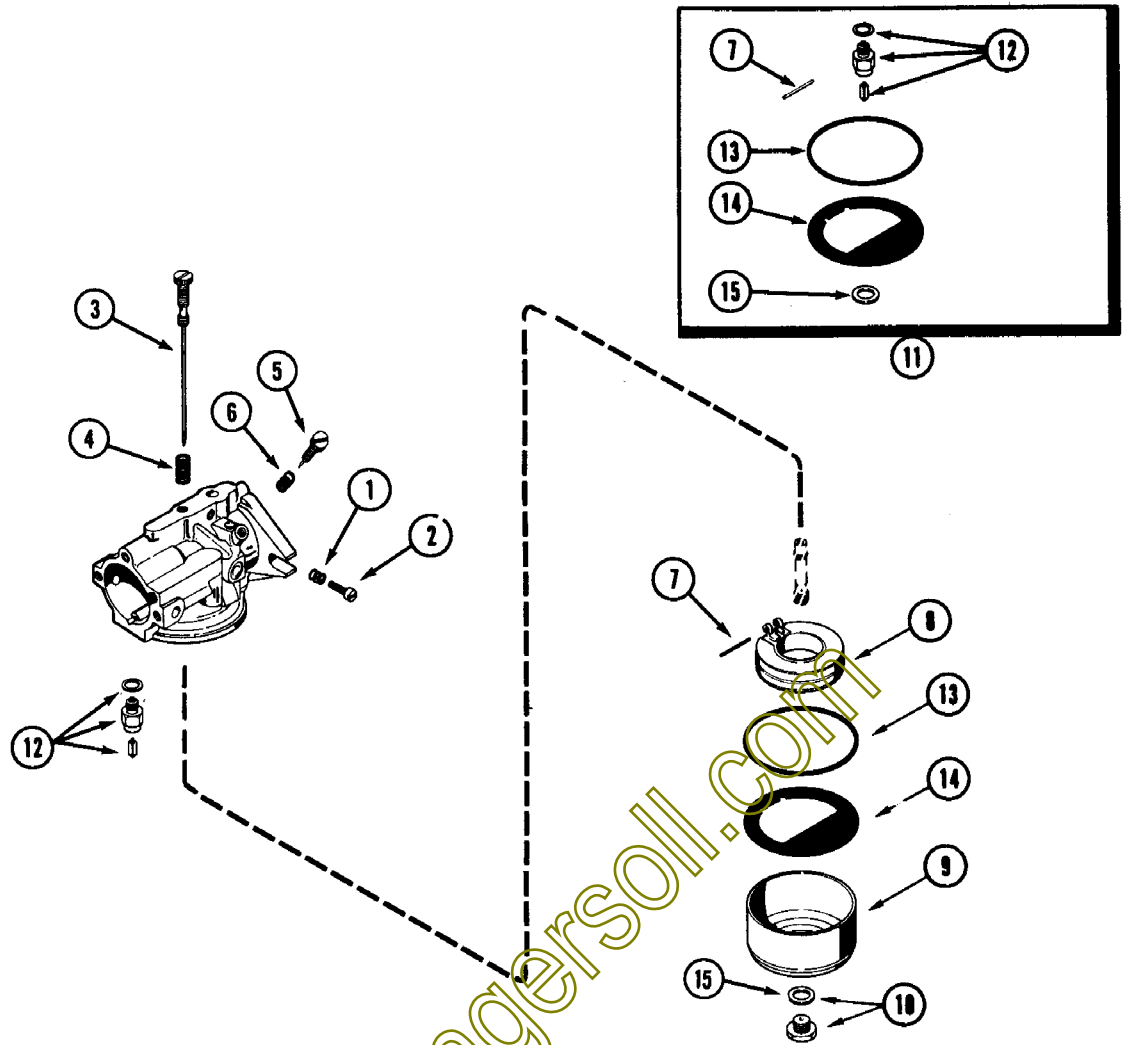


BAFFLES AND SHROUDS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18296	DEFLECTOR - engine air	1
2	192- 19	LOCKWASHER - 1/4" zinc plated	2
3	113- 6	BOLT - 1/4" x 1/2" NC hex, zinc plated	2
4	KO 235955	BAFFLE - cylinder head	1
5	KO 235368	BAFFLE - carburetor side air	1
6	KO 235207	PULLEY - starter	1
7	C 23902	BELT - drive, starter-generator	1
8	195- 515	WASHER - 1/4" zinc plated	4
9	192- 19	LOCKWASHER - 1/4" zinc plated	4
10	175- 436	SCREW - 1/4" x 5/8" NC truss head Phillips, zinc plated	4
11	C 24729	HOUSING - blower	1
12	113- 2	BOLT - 1/4" x 3/4" NC hex, zinc plated	4
13	192- 19	LOCKWASHER - 1/4" zinc plated	4
14	KO 235054	BAFFLE - cylinder	1
15	C 12603	CHANNEL - deflector	1

FUEL SYSTEM

1	C 24408	CARBURETOR ASSEMBLY - 444	1
		(Repairs page 27)	
1	A 72073	CARBURETOR ASSEMBLY - 220 & 222 (Repairs page 27)	1
2	C 23860	GASKET - carburetor flange	1
3	C 10678	ELBOW - fuel pump and carburetor	3
4	214- 251	CLAMP - hose	4
5	C 15007	HOSE - carburetor 5-1/4"	1
6	192- 20	LOCKWASHER 5/16"	2
7	113- 103	BOLT - 5/16" x 1" NC hex	2
8	C 24851	PUMP - fuel, 10 h.p. models (plastic, no repairs)	1
9	71- 410	SCREW - 1/4" x 5/8" NC fillister head	2
10	193- 60	LOCKWASHER - 1/4"	2
11	KO 275341	GASKET - air horn	1
12	C 24581	PUMP - fuel, 12 and 14 h.p. models (Repairs page 27)	1
13	C 22738	GASKET - fuel pump mounting, all models	1
14	C 10657	ELBOW ASSEMBLY - fuel tank	1
15	A 62079	CLIP - fuel line	2
16	C 17574	HOSE - fuel line 43"	1
17	C 16363	TANK - fuel	1
18	C 11529	CAP - fuel tank (Includes insert)	1
19	C 11545	INSERT - fuel cap	1
20	C 16796	STRAP - fuel tank mounting	2
21	173- 215	SCREW - 1/4 x 1/2" NC round head, machine, zinc plated	2
22	129- 504	NUT - square 1/4" NC	2
23	C 14690	CUSHION - fuel tank	2



CARBURETOR

A72073 used on 220, 222 and 442

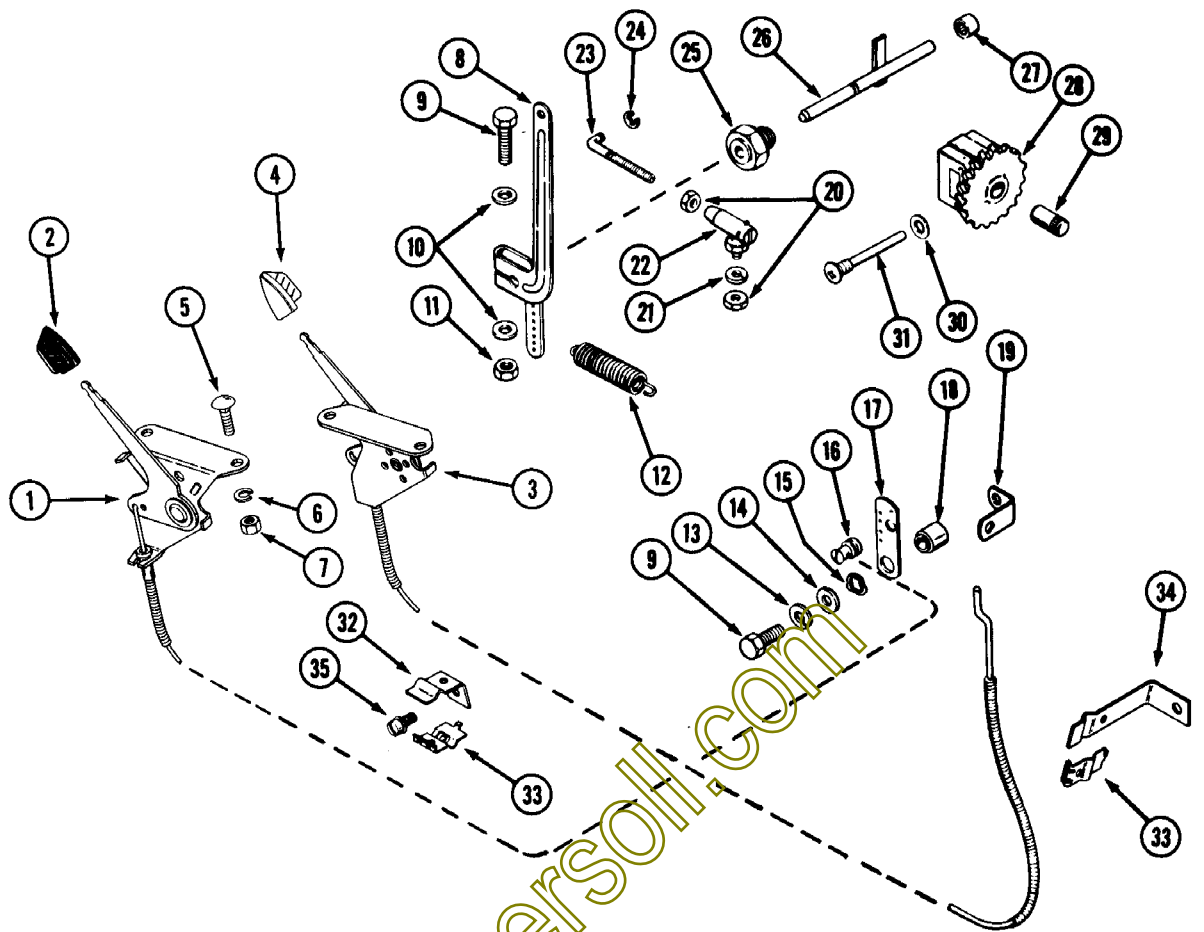
KOA236636 and KOA237490 used on 444 (service with C24408)

REF.	PART NO.	DESCRIPTION	REQ'D
	A 72073	CARBURETOR ASSEMBLY - 220, 222 & 442	1
	NSS	CARBURETOR ASSEMBLY - 444 (Used prior to S/N 9652117) . . .	1
	NSS	CARBURETOR ASSEMBLY - 444 (Used S/N 9652117 and after) . .	1
1	KO 200380	SPRING - tension, idle adjust	1
2	A 72092	SCREW - idle adjust	1
3	A 72077	NEEDLE - main fuel adjust, 220, 222 & 442	1
3	KO 275373	NEEDLE - main fuel adjust, 444 (used prior to S/N 9652117) .	1
3	KO 237489	NEEDLE - main fuel adjust, 444 (used S/N 9652117 and after). 1	
4	KO 200383	SPRING - main fuel adjust	1
5	A 72099	NEEDLE - idle adjust (220, 222 & 442)	1
5	KO 275231	NEEDLE - idle adjust (444)	1
6	KO 200380	SPRING - idle fuel adjust	1
7	A 72079	PIN - float	1
8	A 72078	FLOAT - carburetor	1
9	A 72080	BOWL - carburetor	1
10	A 72084	SCREW AND GASKET ASSEMBLY - carburetor bowl	1
11	A 72103	KIT - carburetor repair	1
12	NSS	INLET NEEDLE AND SEAT ASSEMBLY	1
13	NSS	GASKET - bowl ring	1
14	NSS	GASKET - bowl baffle	1
15	A 72083	GASKET - bowl screw	1

FUEL PUMP

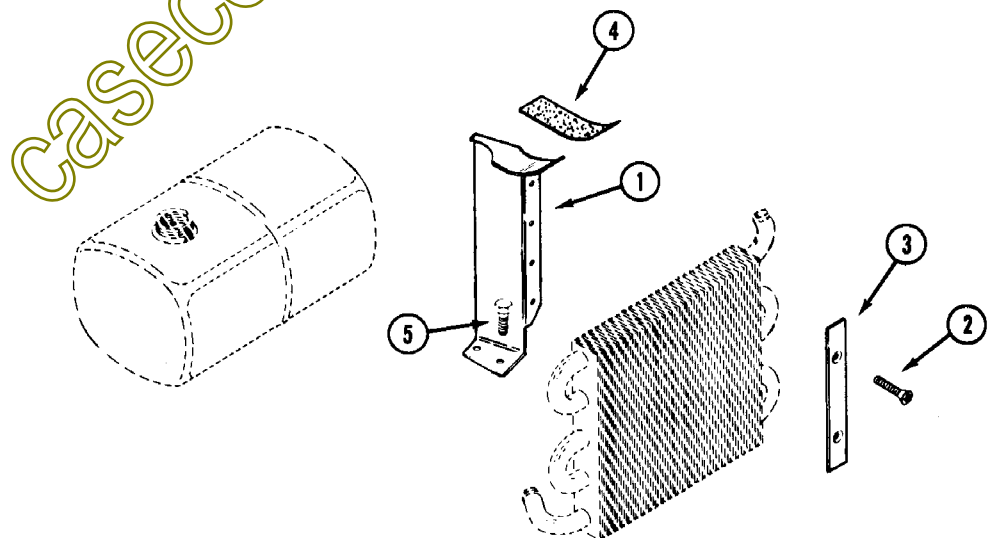
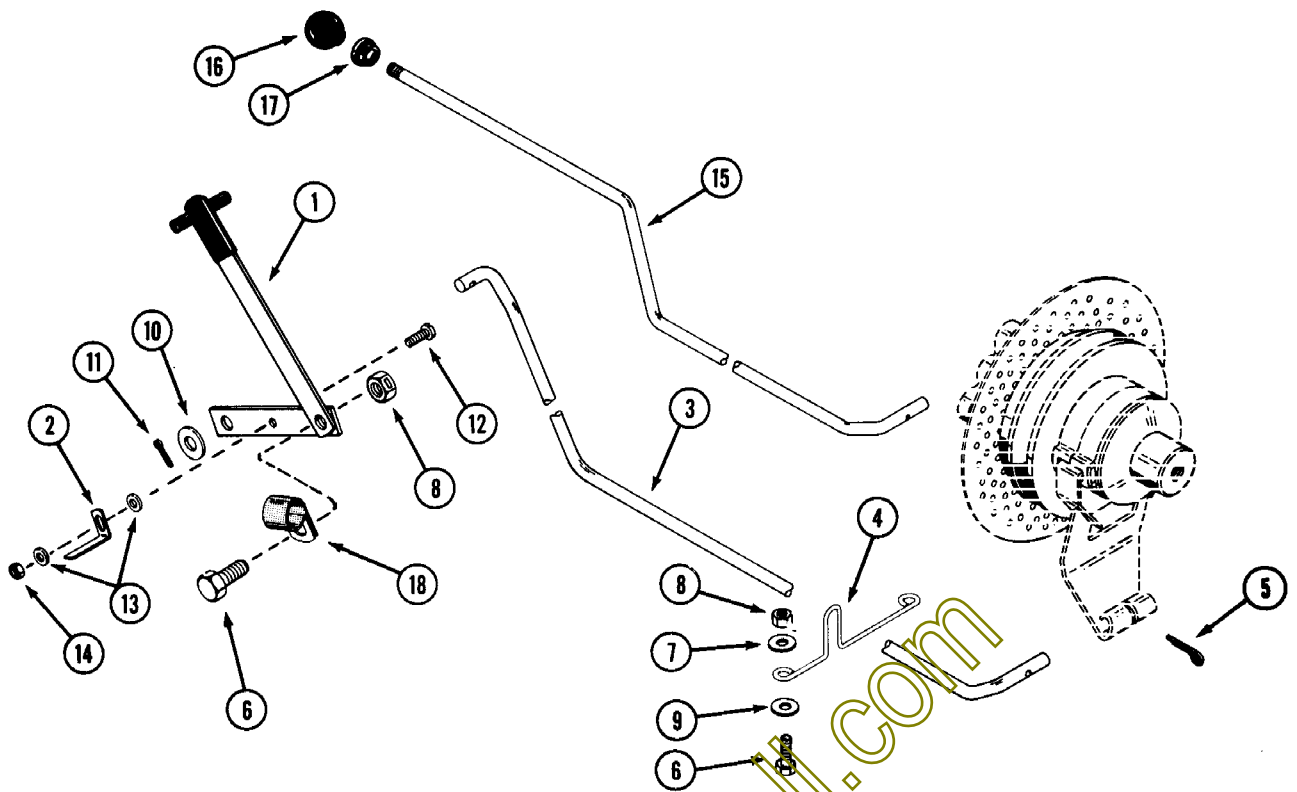
(NOT AVAILABLE FOR PLASTIC PUMP)

1	KO 230675	KIT - fuel pump for KOA235845 pump (220)	1
	NSS	SPRING - fuel pump valve	2
	NSS	VALVE	2
	NSS	GASKET - valve	1
	NSS	DIAPHRAGM ASSEMBLY	1
	NSS	SPRING - diaphragm	1
2	C 24887	GASKET - fuel pump mounting	1
3	KO 236387	KIT - fuel pump for C22988 pump (222, 442 and 444)	1
	NSS	VALVE ASSEMBLY	2
	NSS	GASKET - valve	2
	NSS	DIAPHRAGM ASSEMBLY	1
	NSS	SPRING - diaphragm	1
	NSS	GASKET - valve	1
2	C 24887	GASKET - fuel pump mounting	1



CHOKE, THROTTLE AND GOVERNOR

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 16449	CONTROL - throttle	1
2	C 12224	HANDLE - throttle control, black	1
3	C 16448	CONTROL - choke	1
4	C 14506	HANDLE - choke control, white	1
5	111- 1	BOLT - 10-24 x 1/2" round head, square neck	2
6	192- 18	LOCKWASHER - #10 Std. plated	2
7	129- 17	NUT - #10-24 plated	2
8	KOA237653	LEVER - governor	1
9	15- 420	BOLT - 1/4" x 1-1/4" NC hex	2
10	195- 515	WASHER - 1/4" plated	2
11	25- 104	NUT - 1/4" hex	1
12	KO 235496	SPRING - governor	1
13	192- 19	LOCKWASHER - 1/4" plated	1
14	C 18098	WASHER - thrust	1
15	KO 275690	WASHER - wavy	1
16	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	2
21	192- 18	LOCKWASHER - 3/16" plated	1
22	A 10326	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	KOA235256-S	SHAFT ASSEMBLY - governor cross	1
27	V 34418	BEARING - needle governor shaft	1
28	KOA 235743-S	GEAR ASSEMBLY - governor	1
29	KO 235125-S	SHAFT - governor stub	1
30	C 18099	WASHER - governor stop pin	1
31	KO 231355	PIN - governor stop	1
32	KOA237559	BRACKET - throttle cable	1
33	KO 235603	CLIP - bracket	2
34	KOA236919	BRACKET - choke cable	1
35	169- 95	SCREW - #10 x 3/8" NC fillister head	1

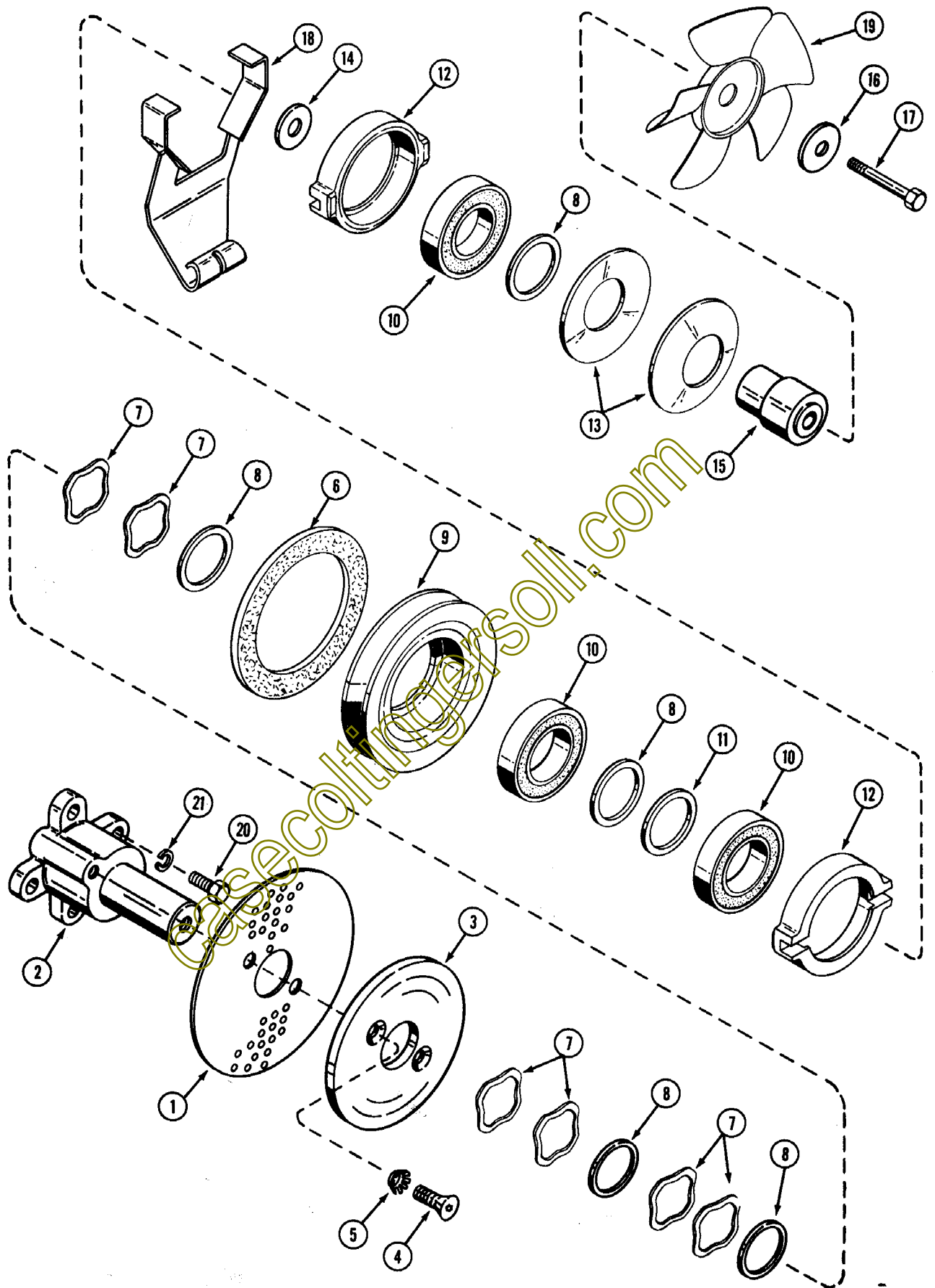


PULLEY CLUTCH & LINKAGE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18052	LEVER - clutch, 222 (used S/N 9649590 and after)	1
1	C 18052	LEVER - clutch, 442 (used S/N 9650949 and after)	1
1	C 18052	LEVER - clutch, 444 (used S/N 9653291 and after)	1
1	C 18052	LEVER - clutch, 220 (used S/N 9647856 and after)	1
2	C 19055	STRIP - switch, PTO safety	2
3	C 18053	ROD - clutch, 220 (used S/N 9647856 and after)	1
3	C 18053	ROD - clutch, 222 (used S/N 9649590 and after)	1
3	C 18053	ROD - clutch, 442 (used S/N 9650949 and after)	1
3	C 18053	ROD - clutch, 444 (used S/N 9653291 and after)	1
4	C 16682	RETAINER - clutch rod	1
5	132- 48	PIN - cotter 1/8" x 1"	1
6	113- 207	BOLT - 3/8" x 1" NC hex	3
7	195- 126	WASHER - spacer (used on models without hydraulic lift)	2
8	131- 178	LOCKNUT - 3/8" NC hex	3
9	195- 104	WASHER - 3/8"	2
10	195- 525	WASHER - 3/8"	1
11	132- 46	PIN - cotter 1/8" x 3/4"	1
12	C 18204	SCREW - insulating #10 x 5/8" NF binder head	2
13	C 15703	WASHER - insulating 3/16"	4
14	C 15704	NUT - insulating #10 NF	2
15	C 14224	ROD - clutch, 220 (used prior to S/N 9647856)	1
15	C 14224	ROD - clutch, 222 (used prior to S/N 9649590)	1
15	C 14224	ROD - clutch, 442 (used prior to S/N 9650949)	1
15	C 14224	ROD - clutch, 444 (used prior to S/N 9653291)	1
16	C 10487	KNOB - (for C14224 clutch rod)	1
17	353- 441	BUSHING - (for C14224 clutch rod)	1
18	49885	CLAMP - choke and throttle cable	1

HYDRAULIC RESERVOIR MOUNTING

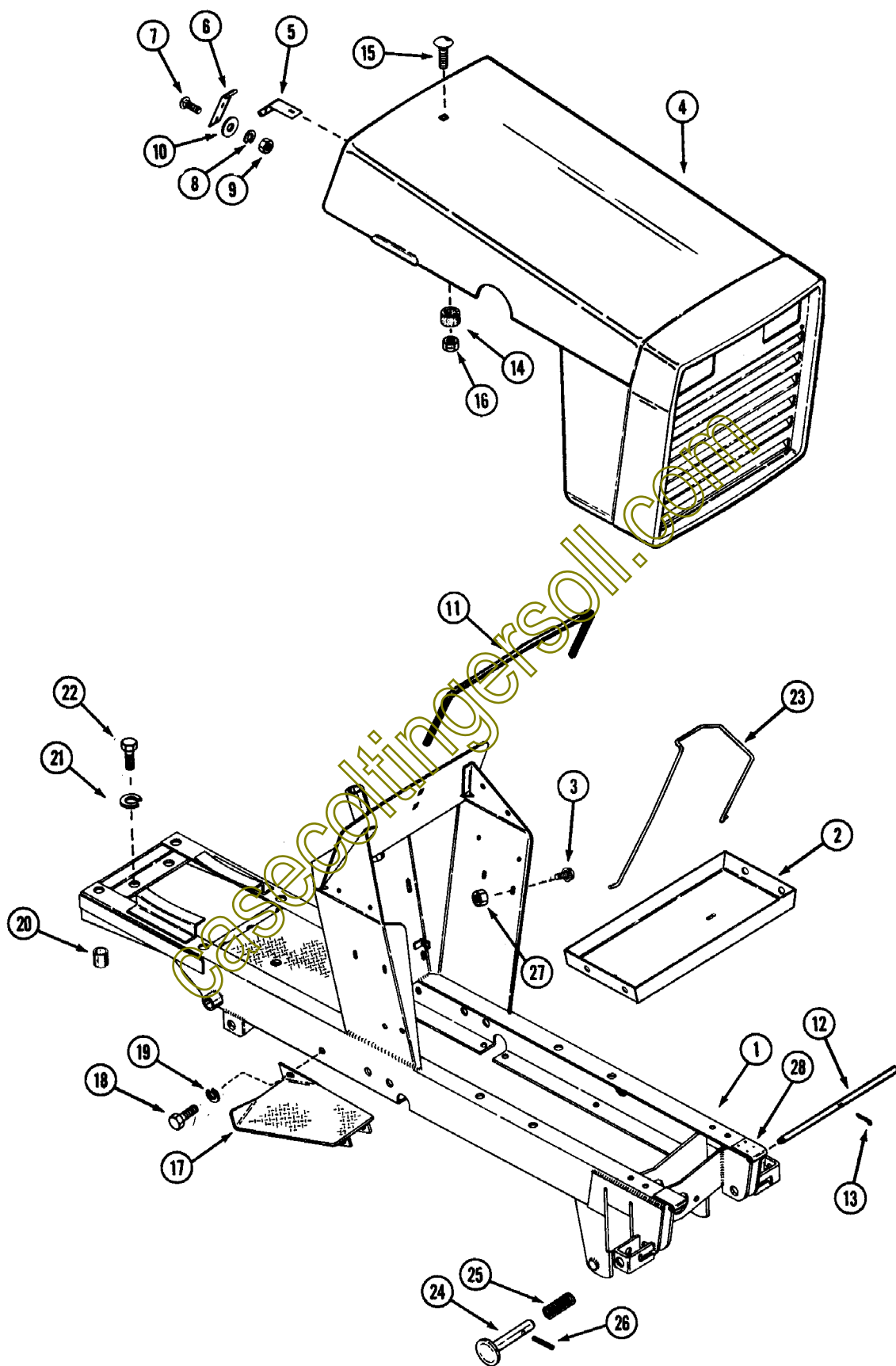
1	C 14240	SUPPORT - reservoir mounting R.H.	1
1	C 14241	SUPPORT - reservoir mounting L.H.	1
2	187- 1251	SCREW - 1/4 x 1-1/4" NC flat head Phillips	4
3	C 14246	BRACKET - heat exchanger mounting	2
4	C 14690	CUSHION - reservoir	2
5	113- 118	BOLT - 5/16 x 5/8" NC hex	4



CLUTCH ASSEMBLY (PTO)

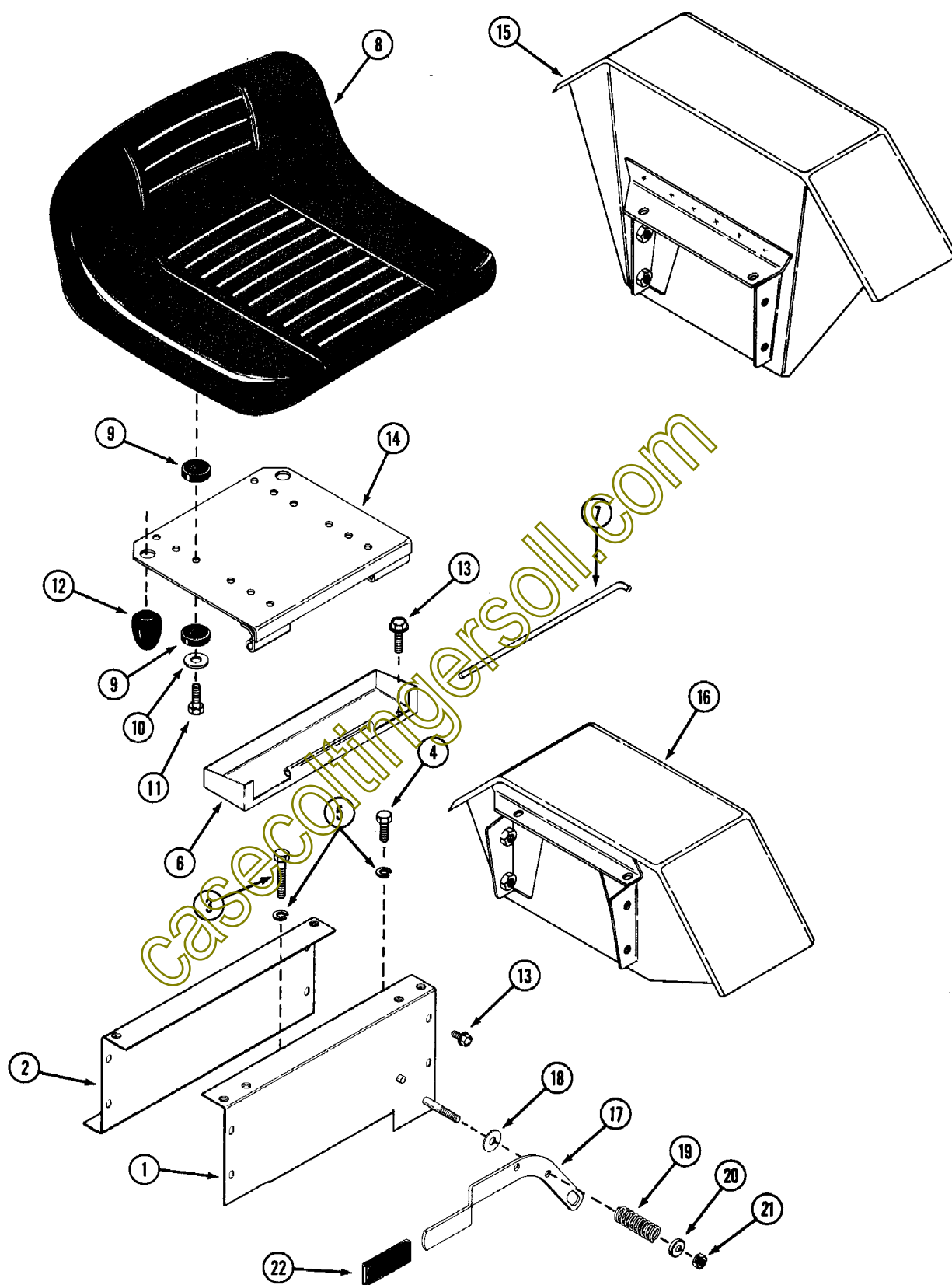
REF.	PART NO.	DESCRIPTION	REQ'D
	C 17302*	CLUTCH ASSEMBLY - less screen, 220 (used prior to S/N 9648090)	1
	C 17302*	CLUTCH ASSEMBLY - less screen, 222 (used prior to S/N 9649791)	1
	C 17302*	CLUTCH ASSEMBLY - less screen, 442 (used prior to S/N 9651073)	1
	C 17302*	CLUTCH ASSEMBLY - less screen, 444 (used prior to S/N 9653691)	1
	C 18241*	CLUTCH ASSEMBLY - less screen, 220 (used S/N 9648090 and after)	1
	C 18241*	CLUTCH ASSEMBLY - less screen, 222 (used S/N 9649791 and after)	1
	C 18241*	CLUTCH ASSEMBLY - less screen, 442 (used S/N 9651073 and after)	1
	C 18241*	CLUTCH ASSEMBLY - less screen, 444 (used S/N 9653691 and after)	1
1	C 15721	SCREEN - grass	1
2	NSS	HUB - clutch (used with C17302 clutch) order item 22	1
2	NSS	HUB - clutch (used with C18241 clutch) order item 22	1
3	C 15718	PLATE - clutch	1
4	164- 40	BOLT - 5/16" x 3/4" NC flat head socket	2
5	193- 76	LOCKWASHER - 5/16" countersunk external tooth	2
6	C 23740	DISC - friction	1
7	C 15515	WASHER - spring	6
8	C 15557	WASHER - spacer .050"	UAR
9	C 22671	PULLEY AND DISC ASSEMBLY - clutch	1
10	C 23245	BEARING - cam and pulley	3
11	C 15556	WASHER - spacer .010"	UAR
11	C 21596	WASHER - spacer .005"	UAR
12	NSS	CAM - clutch (service with (2)C23033 cams and (1)C23506 arm) 2	
13	C 16786	SPRING - clutch load	2
14	C 15743	WASHER - spacer (used with C17302 clutch)	1
14	C 18243	WASHER - spacer (used with C18241 clutch)	1
15	C 16464	SPACER - hub (used with C17302 clutch)	1
15	C 18244	SPACER - hub (used with C18241 clutch)	1
16	195- 2036	WASHER - fan 13/32" (used with C17302 clutch)	1
16	O 2815N	WASHER - fan 17/32" (used with C18241 clutch)	1
17	C 15744	BOLT - 3/8" x 3-1/8" NC hex L.H. threads (used with C17302 clutch)	1
17	C 18242	BOLT - 1/2" x 3-1/8" NC hex L.H. threads (used with C18241 clutch)	1
18	C 23506	ARM - engaging	1
19	C 16616	FAN - cooling	1
20	113- 207	BOLT - 3/8" x 1" NC hex ZP	4
21	192- 21	LOCKWASHER - 3/8"	4
22	C 19472	KIT - stub shaft, clutch (includes items 2, 8, 11, 14, 15 16, 17 & 19)	1

*Order C23506 and C24774 for clutch replacement.



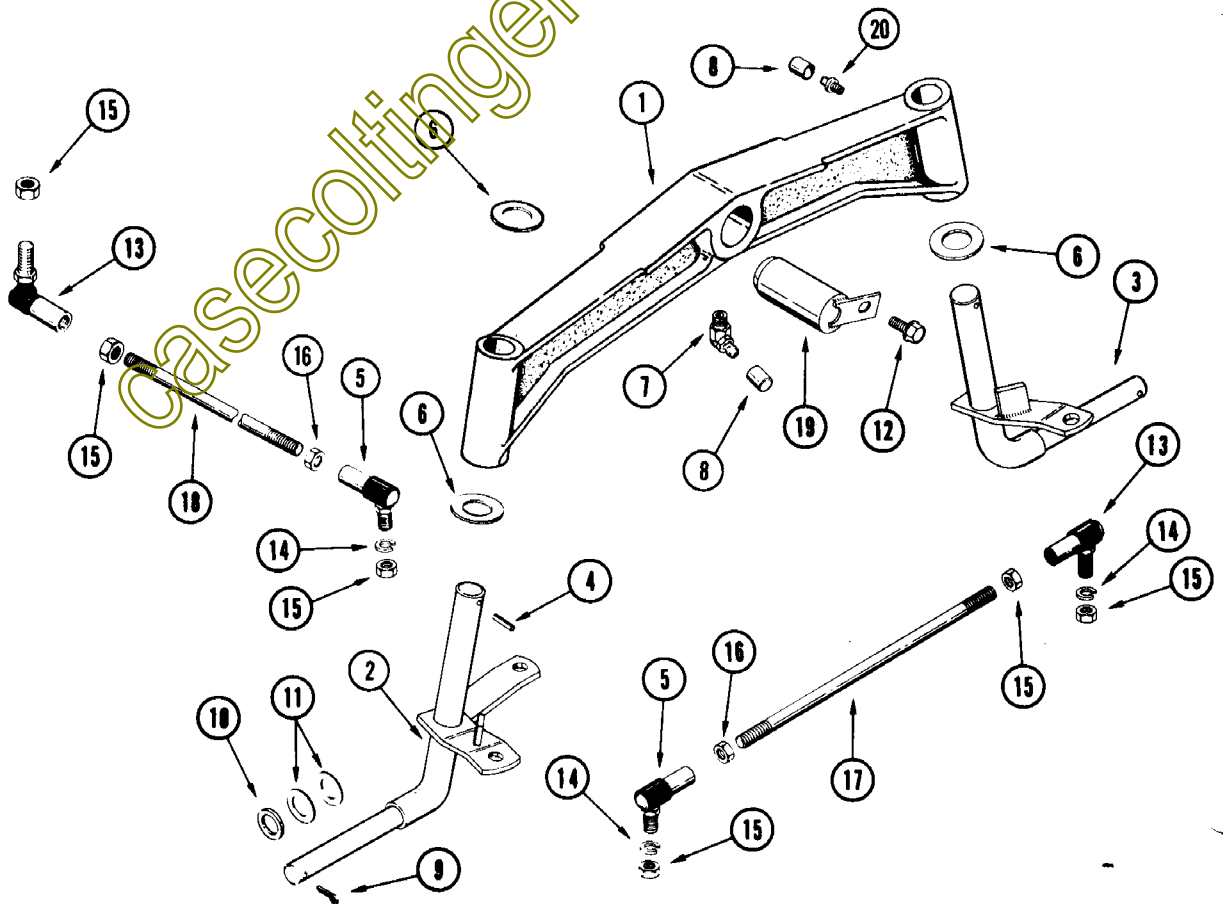
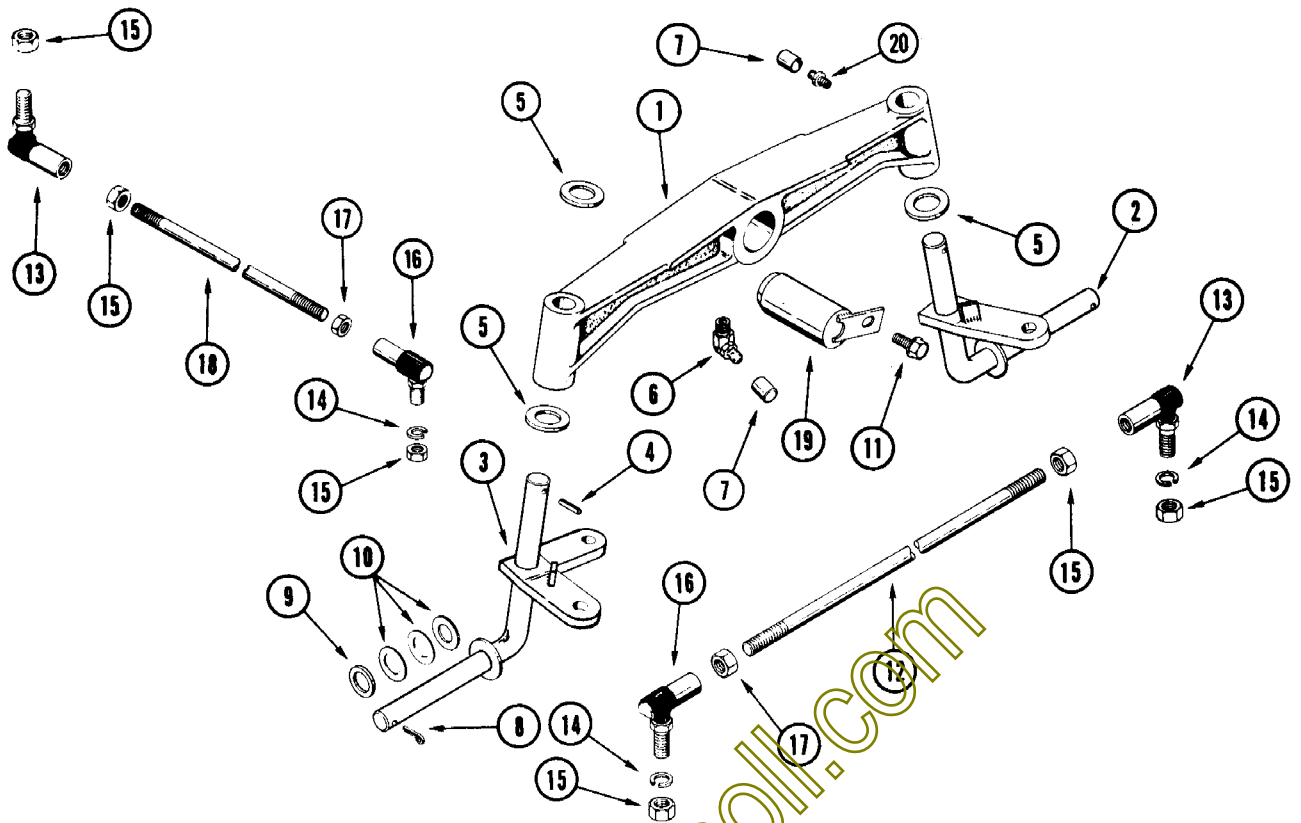
HOOD, FRAME AND GRILLE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 16195	FRAME - main, 220 (used prior to S/N 9647856)	1
1	C 16195	FRAME - main, 222 (used prior to S/N 9649590)	1
1	C 16196	FRAME - main, 442 (used prior to S/N 9650949)	1
1	C 16196	FRAME - main, 444 (used prior to S/N 9653291)	1
1	C 18059	FRAME - main, 220 (used S/N 9647856 and after)	1
1	C 18059	FRAME - main, 222 (used S/N 9649590 and after)	1
1	C 18060	FRAME - main, 442 (used S/N 9650949 and after)	1
1	C 18060	FRAME - main, 444 (used S/N 9653291 and after)	1
2	C 16170	TRAY - battery	1
3	121- 106	SCREW - 5/16" x 1/2" whizlock	4
4	C 16364	HOOD AND GRILLE ASSEMBLY	1
5	C 15183	SPRING - hood latch	1
6	C 15184	LATCH - hood	1
7	111- 1	BOLT - #10 x 1/2" NC round head, square neck	2
8	192- 18	LOCKWASHER - #10	2
9	129- 17	NUT - #10 NC hex	2
10	195- 512	WASHER - 7/32" zinc plated	2
11	C 18153	CHANNEL - instrument panel liner	1
12	C 16362	ROD - hood hinge	1
13	132- 46	PIN - cotter 1/8" x 3/4"	1
14	C 14500	SPACER - hood	1
15	111- 109	BOLT - 1/4" x 1-1/4" NC round head, square neck	1
16	131- 71	LOCKNUT - 1/4" NC hex	1
17	C 18890	PAD - foot L.H.	1
17	C 18150	PAD - foot R.H.	1
18	113- 113	BOLT - 5/16" x 7/8" NC hex	2
19	192- 20	LOCKWASHER - 5/16"	2
20	C 14729	SPACER - rear frame (442 & 444)	2
20	C 14730	SPACER - rear frame (220 & 222)	2
21	192- 23	LOCKWASHER - 1/2"	4
22	113- 424	BOLT - 1/2" x 1" NC hex	4
23	C 16239	STRAP - battery hold down	1
24	C 16373	PIN - latch	2
25	C 24137	SPRING - latch	2
26	138- 319	PIN - roll 3/16" x 1-1/4"	2
27	129- 102	NUT - 5/16" NC hex	4
28	C 16351	HINGE - frame	2



SEAT, FENDERS AND TOOL TRAY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 16408	SUPPORT - seat, front	1
2	C 16404	SUPPORT - seat, rear	1
3	113- 441	BOLT - 1/2 x 2-1/4" NC hex (442 & 444)	2
3	113- 427	BOLT - 1/2 x 3-1/4" NC hex (220 & 222)	2
4	113- 424	BOLT - 1/2 x 1" NC hex	2
5	192- 23	LOCKWASHER - 1/2"	4
6	C 16430	TRAY - tool	1
7	C 16429	PIN - seat hinge	1
8	C 24318	SEAT - 220 & 222	1
8	C 24319	SEAT - 442 & 444	1
9	C 15410	CUSHION - rubber	8
10	195- 2021	WASHER - 5/16 x 1-1/4" OD, zinc plated	4
11	26- 524	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	14
14	C 17152	HINGE ASSEMBLY - seat	1
15	C 16444	FENDER - L. H. (442 & 444)	1
15	C 16445	FENDER - R. H. (442 & 444)	1
16	C 16446	FENDER - L. H. (220 & 222)	1
16	C 16447	FENDER - R. H. (220 & 222)	1
17	C 16393	LEVER - shift	1
18	195- 2029	WASHER - 7/16 x 1-1/4" OD	1
19	C 17216	SPRING - shift lever	1
20	C 17066	WASHER - cupped	1
21	131- 178	NUT - lock 3/8" NC hex	1
22	C 14728	GRIP - shift lever	1

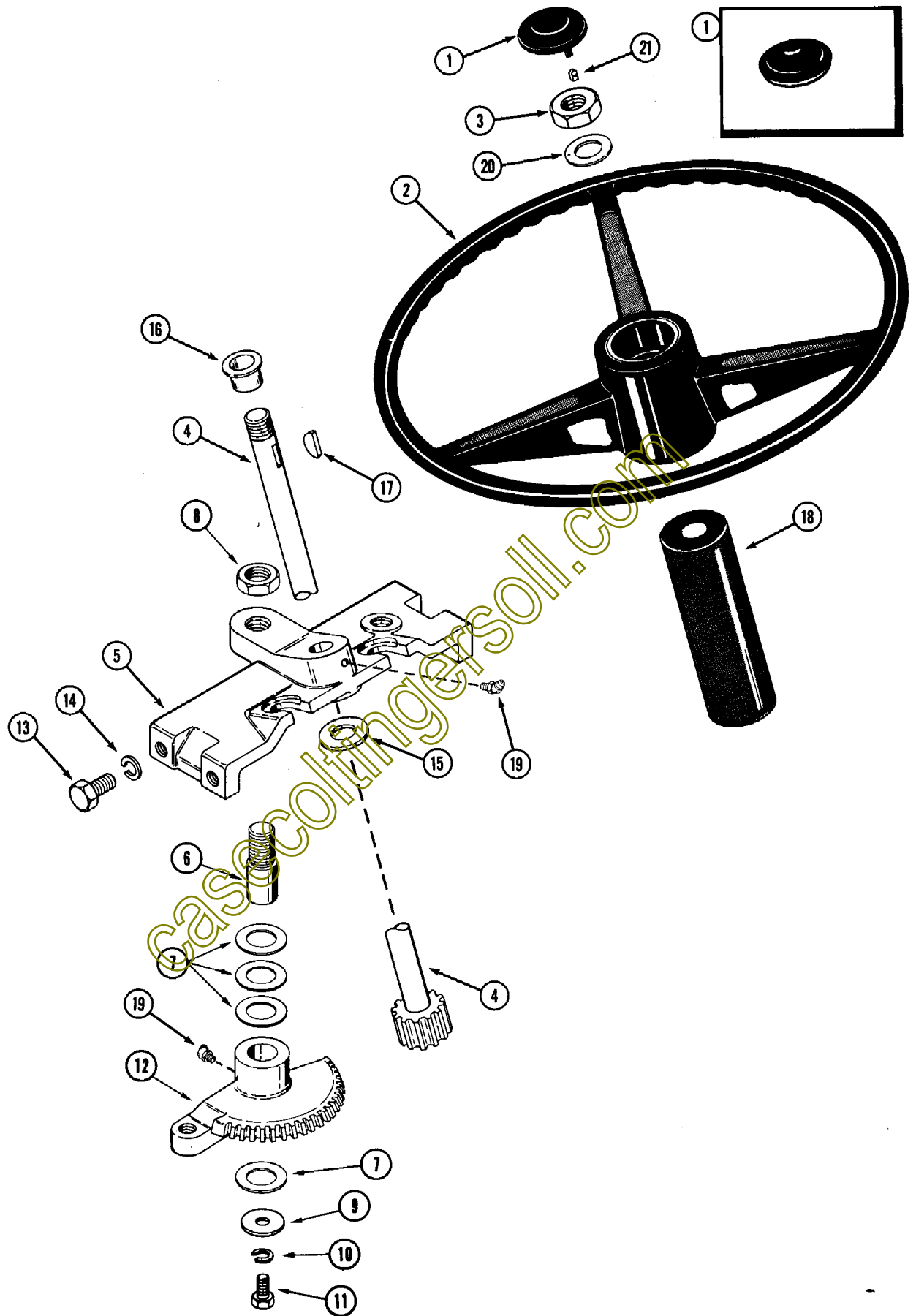


220 AND 222 FRONT AXLE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18812	AXLE - front	1
2	C 14128	SPINDLE - left hand	1
3	C 14131	SPINDLE - right hand	1
4	138- 99	PIN - roll	2
5	C 11906	WASHER - thrust	4
6	219- 404	FITTING - lube	3
7	C 13106	COVER - lube fitting	3
8	132- 77	PIN - cotter 5/32 x 1-1/4"	2
9	C 12975	WASHER - wheel spindle	2
10	A 30881	WASHER - wheel spacer	6
11	187- 1046	BOLT - 3/8" NC indented hex head	1
12	C 14334	TIE ROD	1
13	C 12102	BALL JOINT - 1/2" R. H. thread	2
14	192- 23	LOCKWASHER - 1/2" zinc plated	3
15	129- 125	NUT - 1/2" NF hex R. H. thread	6
16	C 13605	BALL JOINT - 1/2" L. H. thread	2
17	129- 325	NUT - 1/2" NF hex L. H. thread	2
18	C 16401	ROD - drag link	1
19	NSS	PIN - axle pivot (order C22278 and C22568)	1
20	219- 17	FITTING - lube	2

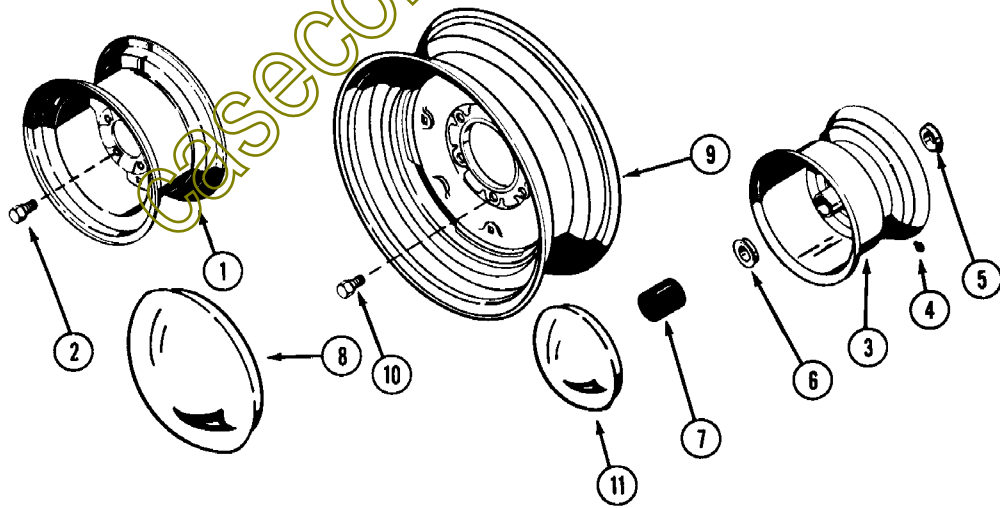
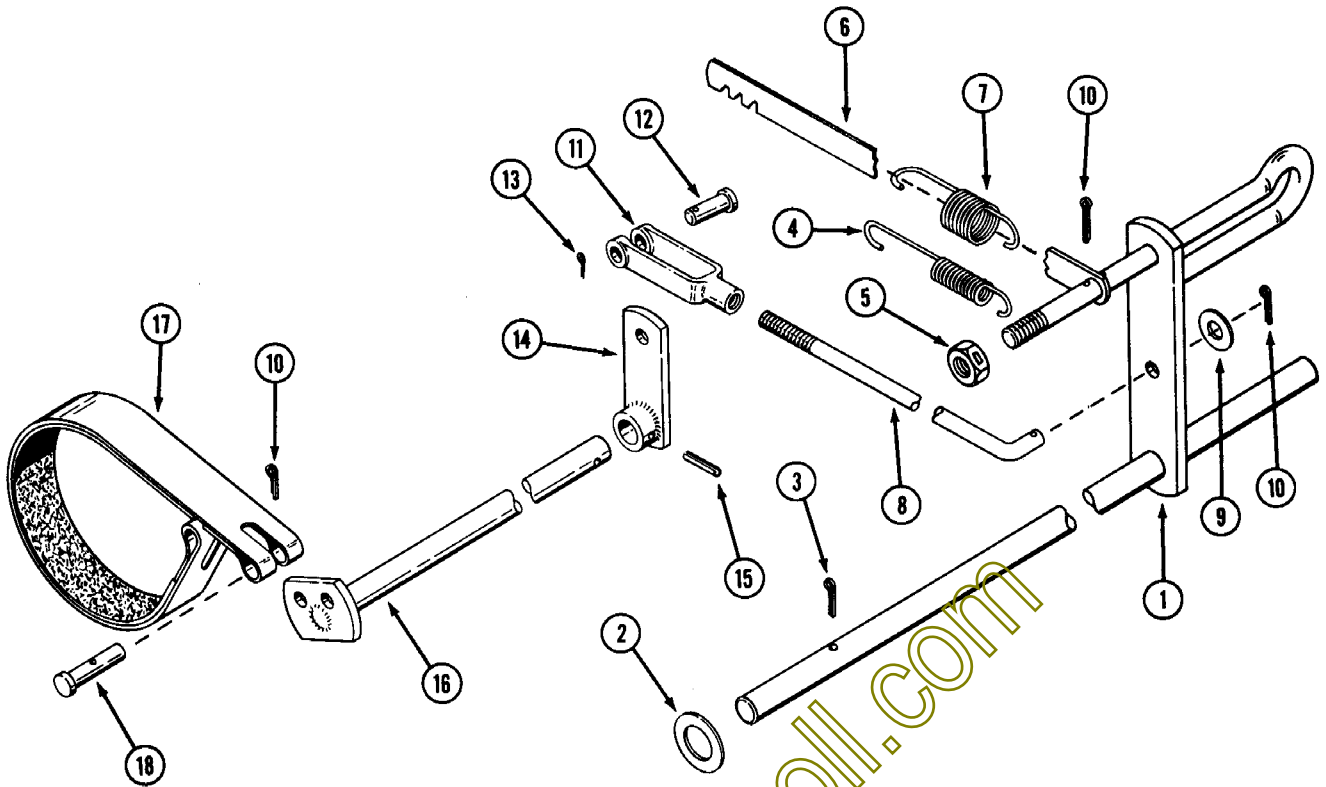
442 AND 444 FRONT AXLE

1	C 18813	AXLE - front	1
2	C 16382	SPINDLE - right hand	1
3	C 16383	SPINDLE - left hand	1
4	138- 99	PIN - roll	2
5	C 13605	BALL JOINT - 1/2" L. H. thread	2
6	C 13716	WASHER - thrust	4
7	219- 404	FITTING - lube	3
8	C 13106	COVER - lube fitting	3
9	132- 77	PIN - cotter 5/32 x 1-1/4"	2
10	C 12975	WASHER - wheel spindle	2
11	A 30881	WASHER - wheel spacer	4
12	187- 1046	BOLT - 3/8" NC indented hex head	1
13	C 12102	BALL JOINT - 1/2" R. H. thread	2
14	192- 23	LOCKWASHER - 1/2" zinc plated	3
15	129- 125	NUT - 1/2" NF hex R. H. thread	6
16	129- 325	NUT - 1/2" NF hex L. H. thread	2
17	C 16384	TIE ROD	1
18	C 16401	ROD - drag link	1
19	NSS	PIN - axle pivot (order C22278 and C22568)	1
20	219- 17	FITTING - lube	2



STEERING GEAR

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 16945	CAP - steering wheel (also order [2] C18017 clips)	1
2	C 18014	WHEEL - steering, 220 (used prior to S/N 9647434)	1
2	C 18014	WHEEL - steering, 222 (used prior to S/N 9649226)	1
2	C 18014	WHEEL - steering, 442 (used prior to S/N 9650702)	1
2	C 18014	WHEEL - steering, 444 (used prior to S/N 9652579)	1
2	C 18014	WHEEL - steering, 220 (used S/N 9647434 and after)	1
2	C 18014	WHEEL - steering, 222 (used S/N 9649226 and after)	1
2	C 18014	WHEEL - steering, 442 (used S/N 9650702 and after)	1
2	C 18014	WHEEL - steering, 444 (used S/N 9652579 and after)	1
3	131- 356	NUT - lock 5/8"	1
4	C 16200	SHAFT - steering	1
5	C 16644	SUPPORT - steering gear	1
6	C 14200	PIN - pivot	1
7	C 14201	WASHER - shim	4
8	131- 1112	NUT - jam 3/4"	1
9	195- 2021	WASHER	1
10	192- 20	LOCKWASHER - 5/16" zinc plated	1
11	113- 103	BOLT - 5/16" x 7/8" NC hex	1
12	C 14990	GEAR - steering	1
13	113- 206	BOLT - 3/8" x 3/4" NC hex	4
14	192- 21	LOCKWASHER - 3/8"	4
15	195- 2069	WASHER - 5/8" zinc plated	1
16	C 15096	BUSHING - flanged nylon	1
17	126- 16	KEY - Woodruff 3/16" x 3/4"	1
18	C 24098	TUBE - steering	1
19	219- 404	FITTING - lube 45°	2
20	C 12975	WASHER - 5/8"	1
21	C 18017	CLIP - tinnerman (use with C18014 steering wheel)	2

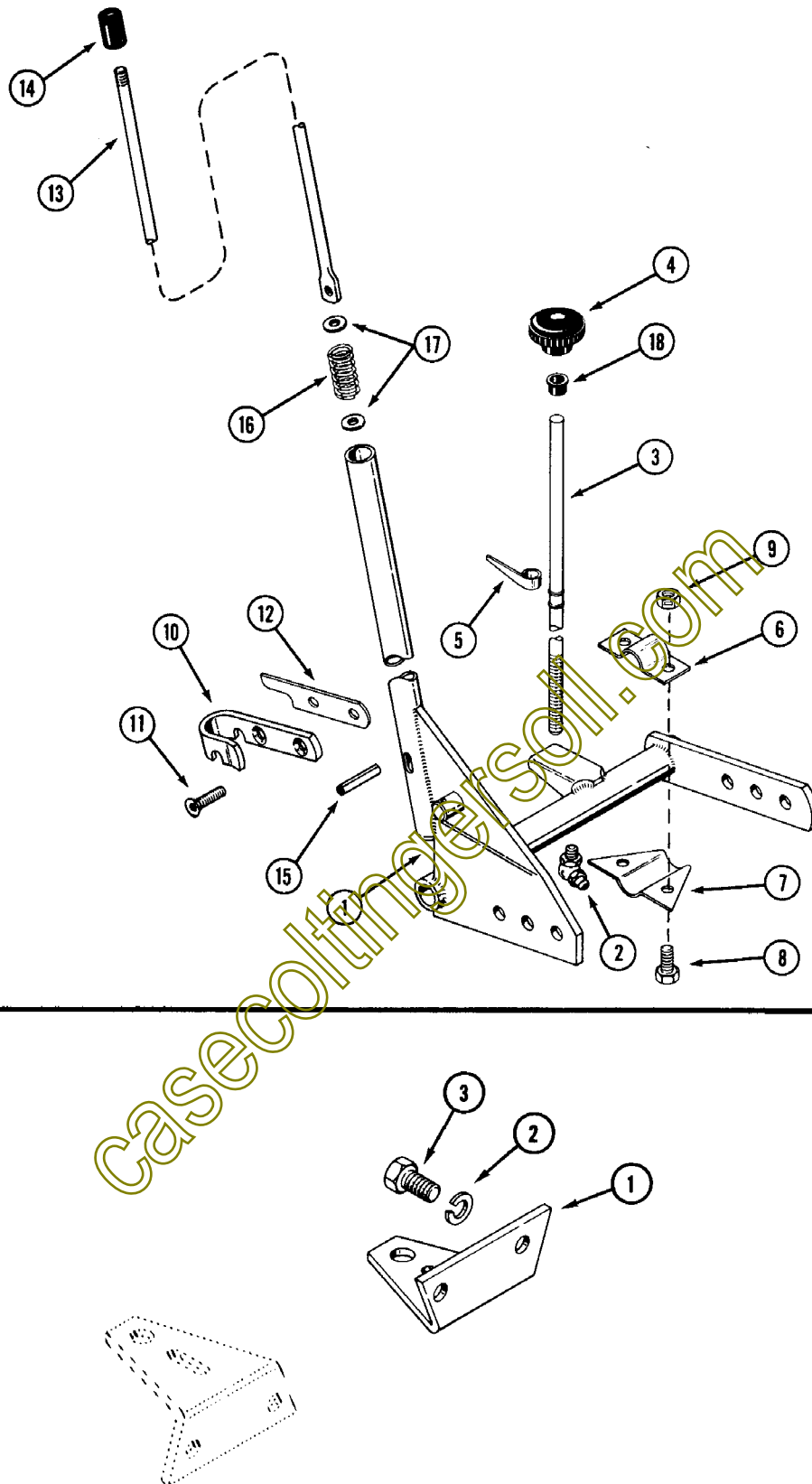


BRAKE ASSEMBLY

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18152	PEDAL - brake	1
2	C 12975	WASHER - brake shaft	1
3	132- 336	PIN - cotter 1/8 x 1-1/2"	1
4	C 16370	SPRING - pedal return	1
5	131- 164	NUT - lock 1/2" NC hex	2
6	C 18147	LEVER - brake lock	1
7	C 16379	SPRING - brake lock	1
8	C 14946	ROD - brake (220 & 222)	1
8	C 14945	ROD - brake (442 & 444)	1
9	195- 104	WASHER - 7/16"	1
10	132- 310	PIN - cotter 1/8 x 1"	4
11	213- 4	CLEVIS - 3/8"	1
12	141- 4	PIN - clevis	1
13	132- 321	PIN - cotter 3/32 x 1"	1
14	C 13863	ARM - brake	1
15	138- 96	PIN - roll 3/16 x 1"	1
16	C 13866	SHAFT - brake	1
17	C 14187	BAND - brake	1
18	C 13526	PIN - clevis	2

FRONT AND REAR WHEELS

			220	442
			222	444
1	C 24435	WHEEL - rear, 5 bolt	2	
2	C 10314	BOLT - rear wheel	10	
3	C 24433	WHEEL - front (includes bearings)	2	2
4	219- 403	FITTING - lube	2	2
5	C 12110	BEARING - wheel, inner	2	2
6	C 12111	BEARING - wheel, outer	2	2
7	C 12370	CAP - plastic, front	2	2
8	A 70185	CAP - hub, rear (optional)	2	
9	C 24438	WHEEL - rear, 6 bolt		2
10	A 30064	BOLT - rear wheel		12
11	A 70062	CAP - hub front wheel (optional)	2	2



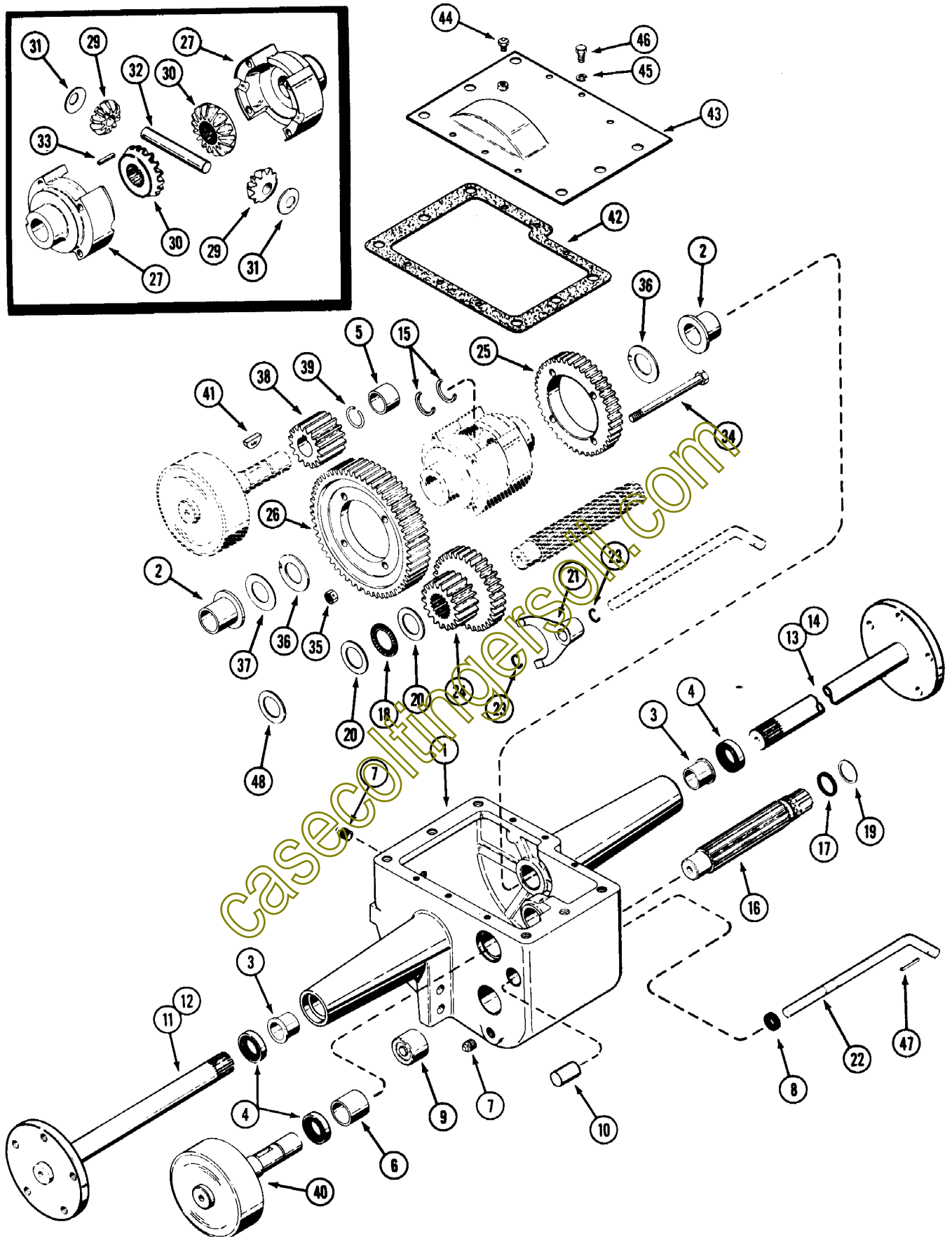
MOUNTING POSITION FOR 220 AND 222 TRACTORS

IMPLEMENT LIFT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 17319	LEVER ASSEMBLY - implement lift	1
2	219- 404	FITTING - lube 45°	1
3	C 16741	ROD - height adjust	1
4	C 16751	KNOB - height adjust	1
5	C 16750	ARM - indicator	1
6	C 17249	BRACKET - mounting top	1
7	C 17250	BRACKET - mounting bottom	1
8	113- 221	BOLT - 3/8 x 7/8" NC hex	4
9	131- 178	NUT - lock 3/8"	4
10	C 17174	LIFT - latch	1
11	164- 42	SCREW - 5/16 x 1-1/4" flat head socket	2
12	C 17281	SPACER - latch	4
13	C 17067	ROD - lift lever push	1
14	C 14525	BUTTON - thumb	1
15	138- 2054	PIN - spirol 5/16 x 1-3/4"	1
16	C 15564	SPRING - lift lever	1
17	195- 521	WASHER - 3/8 x 11/16" OD	2
18	C 18144	BUSHING	1

DRAWBAR AND TOW HITCH

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



TRANSMISSION AND FINAL DRIVE

REF.	PART NO.	DESCRIPTION	REQ'D
1	NSS	CASE - transmission (order 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)	1
12	C 22638	SHAFT - axle, short R.H. (442 & 444)	1
13	C 16700	SHAFT - axle, long L.H. (220 & 222)	1
14	C 22637	SHAFT - axle, long L.H. (442 & 444)	1
15	B 52144	RING - retainer, axle	2
16	C 12554	SHAFT - transmission input (220 & 222) used with C13047 motor, 20 tooth	1
17	C 14199	RING - input shaft seal (220 & 222) used with C13047 motor . . .	1
18	T 36441	BEARING - thrust (220 & 222)	1
19	C 14656	RING - back up (220 & 222) used with C13047 motor	1
20	C 13212	RACE - thrust bearing (220 & 222)	2
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 (19 tooth spline)	1
24	C 12553	GEAR - cluster input (220 & 222) used with C13047 motor 20 tooth spline	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 - 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	28- 680	SCREW - 3/8 x 4-3/4" NC hex cap	4
35	131- 366	NUT - lock 3/8" NC hex	4
36	C 12716	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	C 13196	GASKET - transmission cover	1
43	C 13197	COVER - transmission	1
44	A 50096	BREATHER - transmission	1
45	192- 19	LOCKWASHER - 1/4"	6
46	113- 1	BOLT - 1/4 x 1/2" NC hex	6
47	138- 319	PIN - roll 3/16 x 1-1/2"	1
48	C 14919	WASHER - special, shim .015" (220 & 222)	UAR

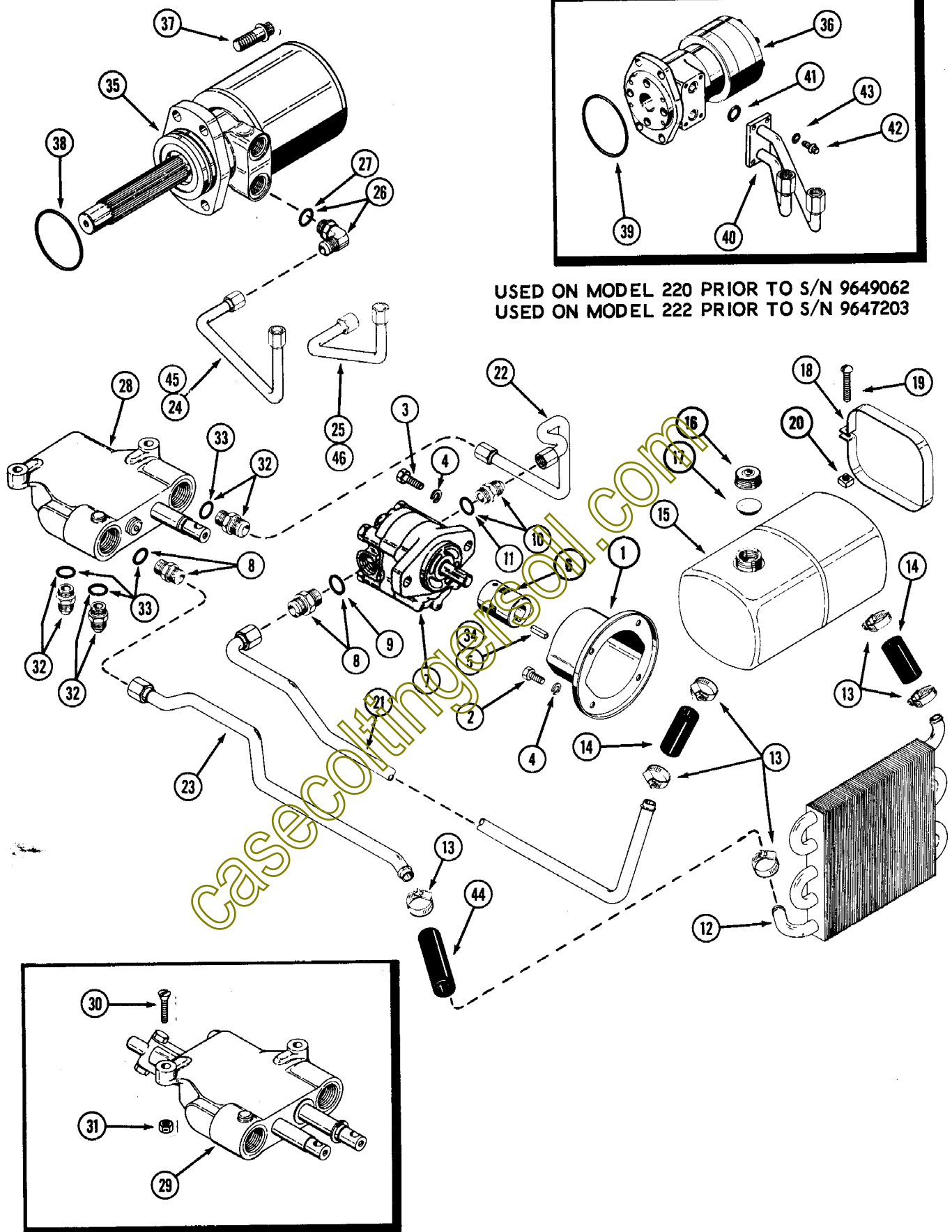
* Use C12540 bearing prior to S/N:

220 - S/N 9647434

222 - S/N 9649226

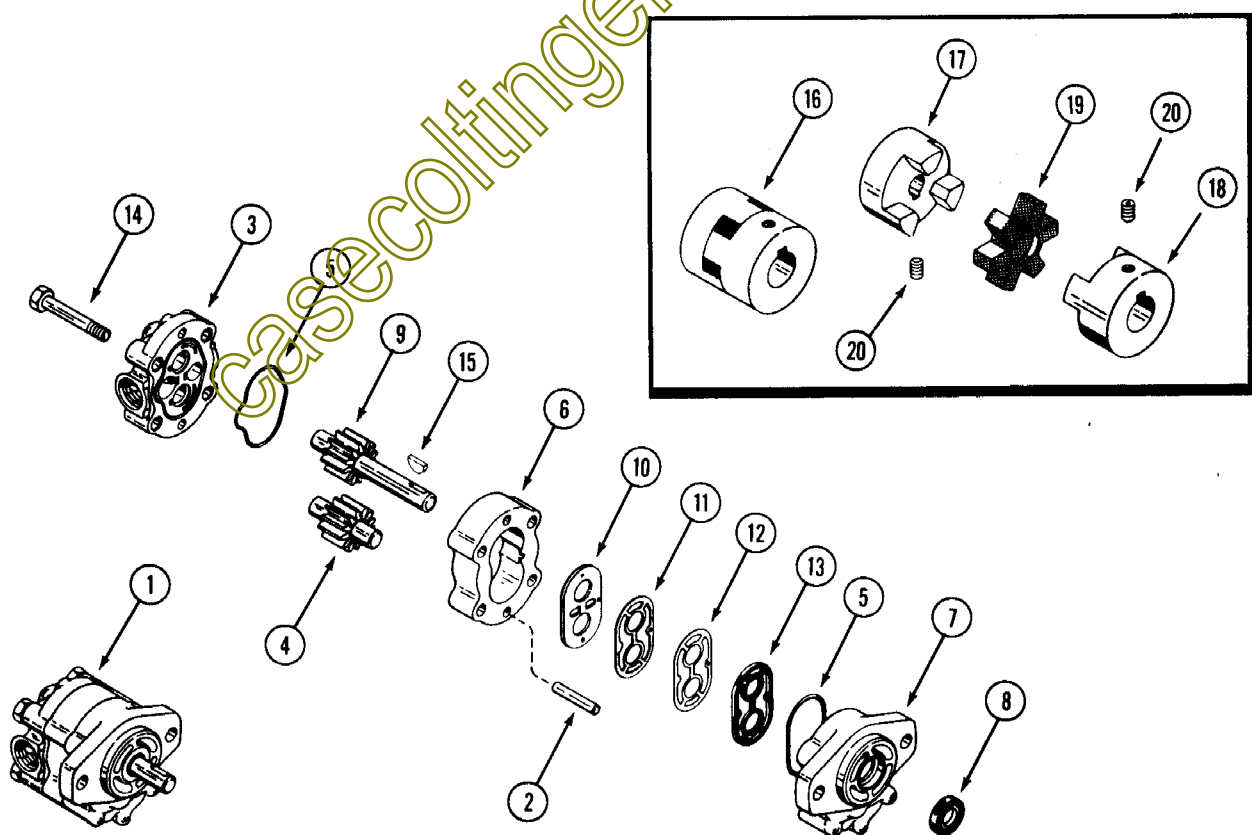
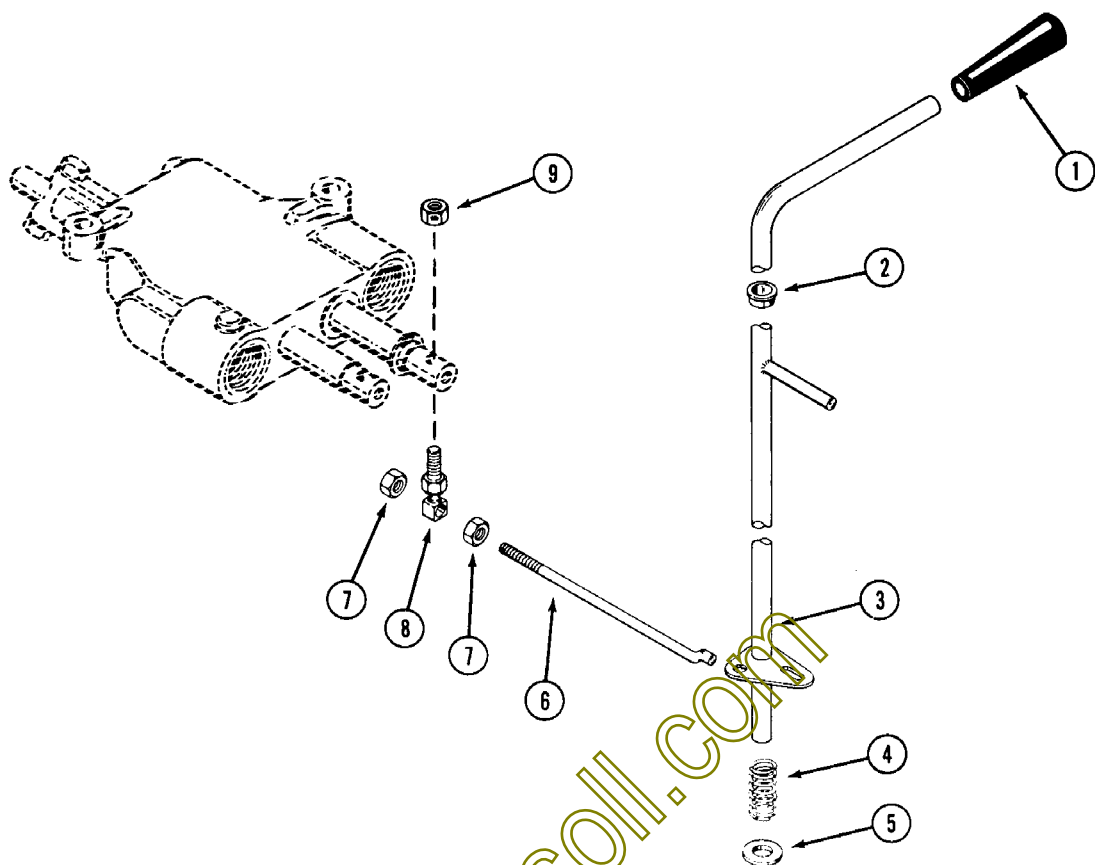
442 - S/N 9650696

444 - S/N 9652551



HYDRAULIC SYSTEM

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 15335	SUPPORT - pump mounting	1
2	113- 207	BOLT - 3/8 x 1" NC hex, support mounting	4
3	114- 200	BOLT - 3/8 x 1" NF hex, pump mounting	2
4	192- 21	LOCKWASHER - 3/8" zinc plated	6
5	W 5063-S	KEY - square 1/4 x 3/4" (220, 222 & 442)	1
6	C 15726	COUPLING - pump (220, 222 & 442) (Repairs page 51)	1
6	C 17298	COUPLING - pump (444) (Repairs page 51)	1
7	C 15481	PUMP - hydraulic (Repairs page 51)	1
8	C 17236	FITTING - hydraulic 3/4T x 7/8" "O" RING, pump and valve	2
9	218- 5007	"O" RING - 5/8" for C17263 fitting	2
10	218- 5062	FITTING - hydraulic 5/8T x 7/8" "O" RING, pump pressure	1
11	218- 5007	"O" RING - 5/8" for C18321 fitting	1
12	C 14195	EXCHANGER - heat	1
13	214- 8	CLAMP - hose	6
14	C 14245	HOSE - rubber 3"	2
15	C 16101	RESERVOIR - hydraulic oil	1
16	C 11529	CAP - reservoir with insert	1
17	C 11545	INSERT - reservoir cap	1
18	A 70100	STRAP - reservoir mounting	2
19	173- 215	SCREW - 1/4 x 1-1/4" round head machine	2
20	129- 504	NUT - square 1/4" NC zinc plated	2
21	C 16689	TUBE - hydraulic, pump to tank	1
22	C 16686	TUBE - hydraulic, pump to valve	1
23	C 16690	TUBE - valve to heat exchanger	1
24	C 16687	TUBE - valve to lower motor port (442 & 444)	1
25	C 17898	TUBE - valve to upper motor port (442 & 444)	1
26	218- 5107	FITTING - motor port, 90° elbow "O" ring	2
27	218- 5007	"O" RING - 5/8" for 218-5107 fitting	2
28	NSS	VALVE - hydraulic control, single spool (220, 222 & 442) (Repairs page 53) (Order C22020 kit, page 53B)	1
29	NSS	VALVE - hydraulic control, two spool (all models with hydraulic lift) (Repairs page 53) (Order C22019 kit, page 53B)	1
30	171- 247	SCREW - 5/16 x 1-1/4" NC flat head machine	2
31	131- 351	NUT - lock 5/16" NC hex	2
32	218- 5062	FITTING - hydraulic valve 5/8T x 7/8" "O" RING	3
33	218- 5007	"O" RING - 5/8" for 218-5062	2
34	C 17354	KEY - square 1/4 x 1/2" (444)	1
35	C 16697	MOTOR - hydraulic, 220 (Repairs page 57) (Used SN/9649062 and after)	1
35	C 16697	MOTOR - hydraulic, 222 (Repairs page 57) (Used S/N 9647203 and after)	1
35	C 14655	MOTOR - hydraulic, 442 & 444 (Repairs page 57)	1
36	C 13047	MOTOR - hydraulic, 220 & 222 (Repairs page 55)	1
37	166- 86	SCREW - 1/2" x 1-1/4" NC flanged 12 pt.	4
38	A 30095	SEAL - motor to transmission case (442 & 444)	1
39	A 32190	SEAL - motor to transmission case (220 & 222)	1
40	C 16261	MANIFOLD - hydraulic motor (220 & 222)	1
41	A 27410	"O" RING - manifold to hydraulic motor (220 & 222)	2
42	166- 24	BOLT - 5/16" x 3/4" NC flanged 12 pt.	4
43	193- 29	LOCKWASHER - 5/16" internal tooth	4
44	C 14619	HOSE - rubber 4"	1
45	C 16794	TUBE - valve to lower motor port, 220 (used S/N 9649062 and after)	1
45	C 16794	TUBE - valve to lower motor port, 222 (used S/N 9647203 and after)	1
46	C 16793	TUBE - valve to upper motor port, 220 (used S/N 9649062 and after)	1
46	C 16793	TUBE - valve to upper motor port, 222 (used S/N 9647203 and after)	1

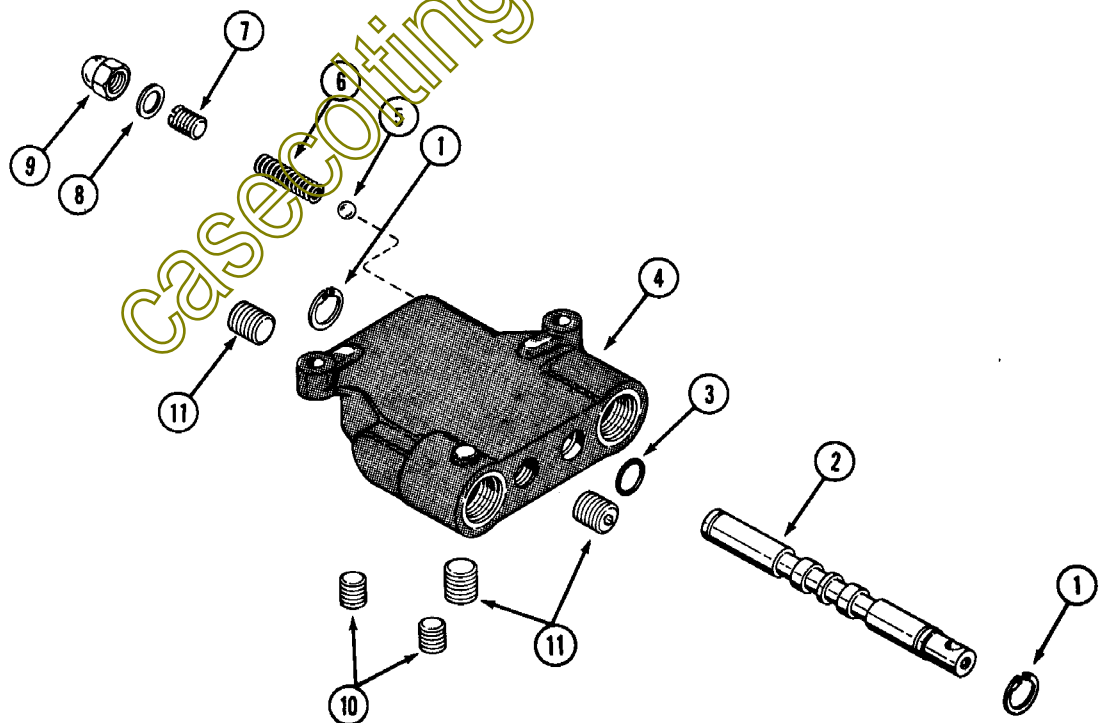
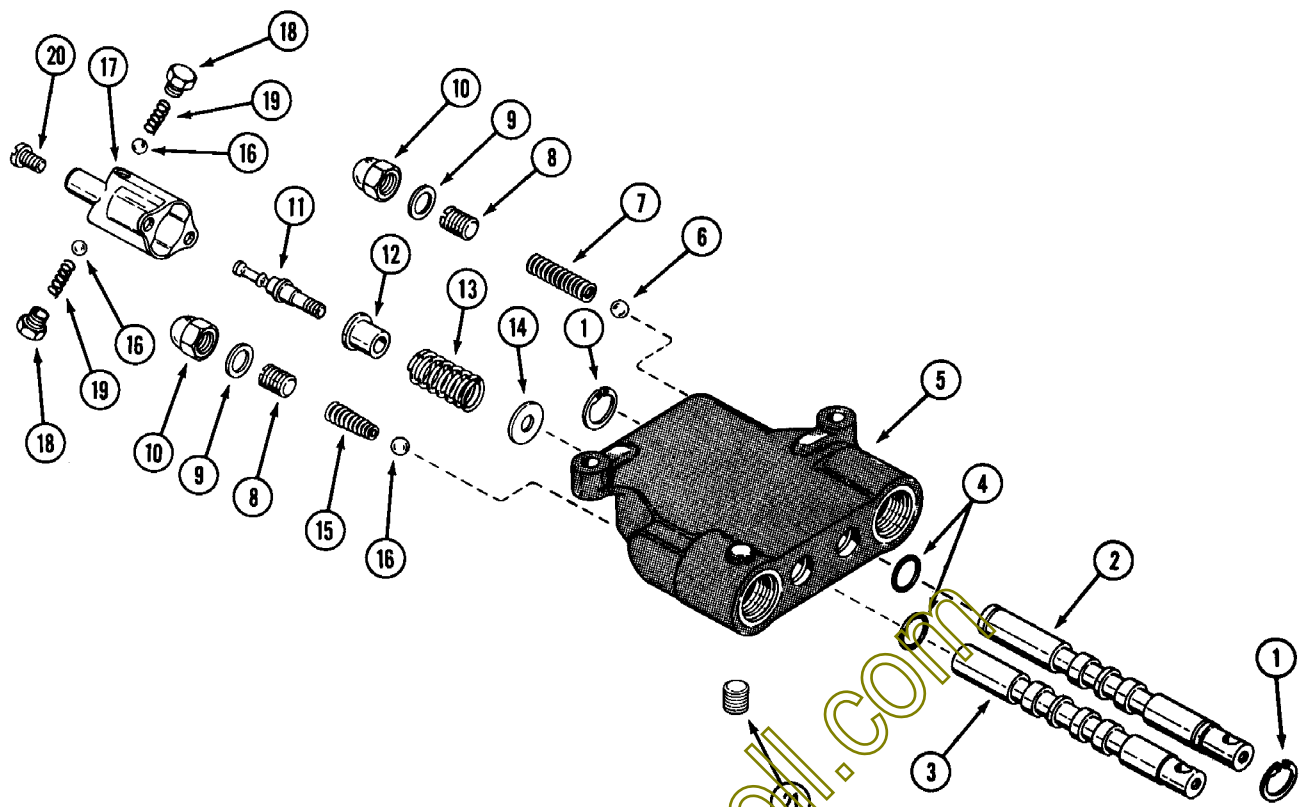


SPEED CONTROL

REF.	PART NO.	DESCRIPTION	REQ'D
1	A 37247	KNOB - speed control	1
2	C 12093	BUSHING - lever	1
3	C 16162	LEVER - speed control	1
4	C 17612	SPRING - compression	1
5	C 21518	WASHER - oilite	1
6	C 16412	ROD - control	1
7	129- 102	NUT - 5/16" NC hex, zinc plated	2
8	C 16683	JOINT - ball	1
9	131- 176	NUT - lock 5/16" NC hex, zinc plated	1

HYDRAULIC PUMP AND COUPLING

1	C 15481	PUMP - hydraulic	1
2	F 53109	PIN - dowel	2
3	C 15730	COVER - rear	1
4	C 15731	GEAR ASSEMBLY - driven	1
5	C 15732	"O" RING	2
6	C 15733	BODY - pump	1
7	C 15734	COVER - front	1
8	C 15735	SEAL - rotary	1
9	C 18384	GEAR ASSEMBLY - drive	1
10	C 15737	PLATE - wear	1
11	C 15738	SHIELD - heat	1
12	C 15739	GASKET	1
13	C 15740	SEAL	1
14	113- 111	BOLT	4
15	126- 111	KEY - 1/8 x 5/8" Woodruff	1
16	C 15726	COUPLING - pump (220, 222 & 442)	1
16	C 17298	COUPLING - pump (444)	1
17	NSS	HUB - (order item 16)	1
18	NSS	HUB - (order item 16)	1
19	A 70112	SPIDER - (for C15726 coupling)	1
19	C 15036	SPIDER - (for C17298 coupling)	1
20	83- 55	SCREW - set 5/16 x 5/16" NC socket head	2

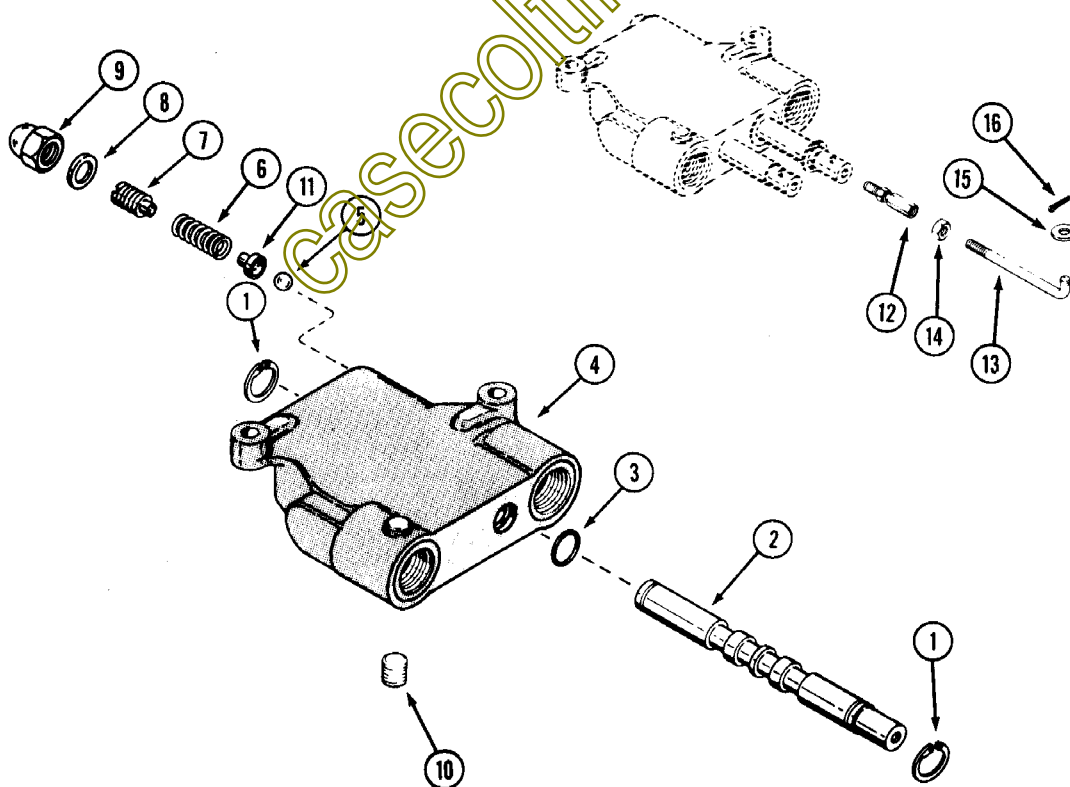
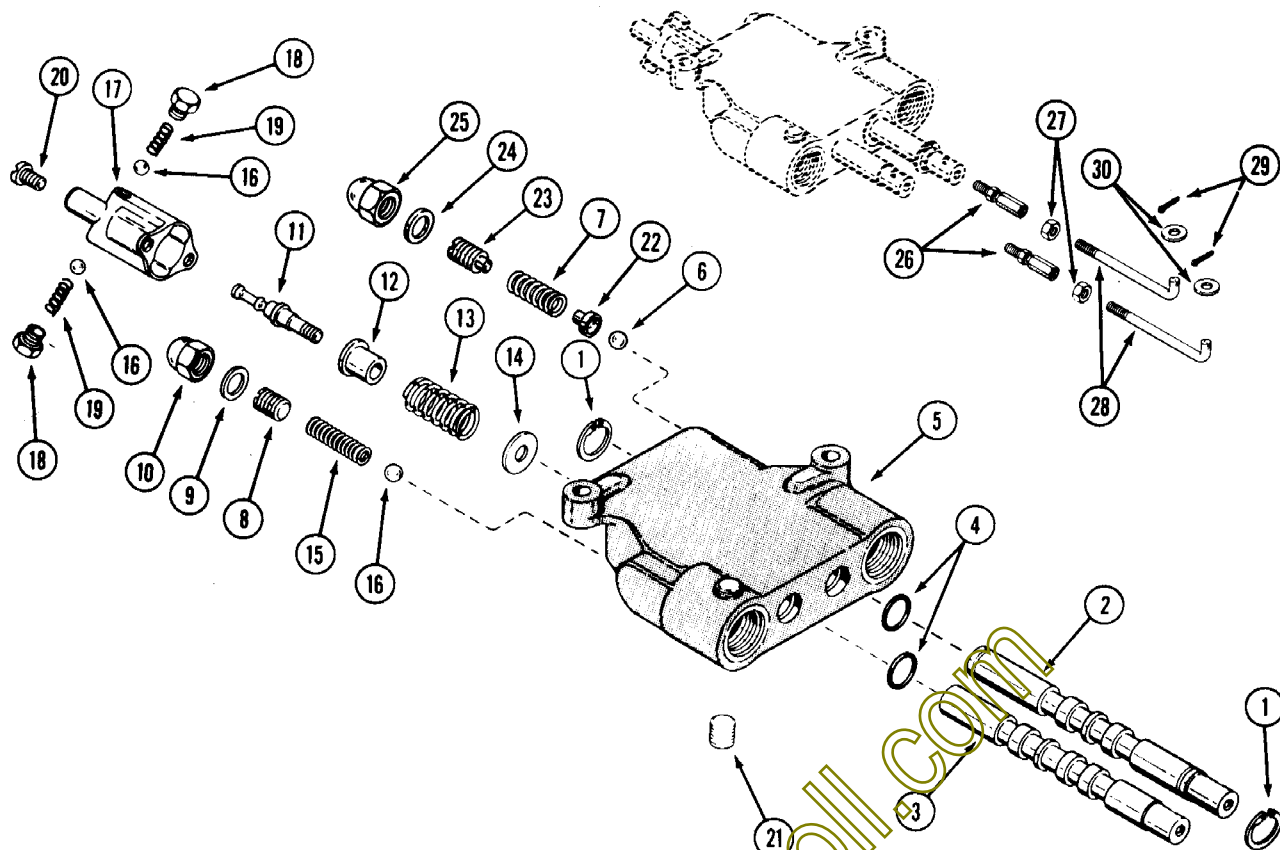


HYDRAULIC CONTROL VALVE C 16493 (TWO SPOOL)

REF. PART NO.	DESCRIPTION	REQ'D
NSS	VALVE - control, two spool (All models with hydraulic lift)	
	(Order C22019 kit) (repairs page 53B)	1
1 A 60273	RING - retaining	2
2 NSS	SPOOL - motor (Order C22019 kit)	1
3 NSS	SPOOL - float (Order C22019 kit)	1
4 A 7982	SEAL - spool	4
5 NSS	BODY - valve (Order C22019 kit)	1
6 211- 9	BALL - steel 5/16"	1
7 C 17432	SPRING - relief	2
8 C 17433	SCREW - relief adjust	2
9 C 17435	GASKET - relief adjust cap	2
10 129- 531	CAP - adjust screw	2
11 C 17439	DETENT - spool	1
12 C 13200	SPACER - detent	1
13 C 17441	SPRING - detent return	1
14 C 17440	WASHER - return	1
15 C 17445	SPRING - relief, tapered	1
16 211- 7	BALL - steel 1/4"	3
17 C 17438	COVER - detent	1
18 C 17443	SCREW - detent	2
19 C 17444	SPRING - detent	2
20 169- 114	SCREW - cover	2
21 221- 841	PLUG - pipe	1

HYDRAULIC CONTROL VALVE C 16492 (SINGLE SPOOL)

NSS	VALVE - control, single spool	
	(Order C22020 kit) (repairs page 53B)	1
1 A 60273	RING - retaining	2
2 NSS	SPOOL - (Order 22020 kit)	1
3 A 7982	SEAL - spool	2
4 NSS	BODY - valve (Order C22020 kit)	1
5 211- 9	BALL - steel 5/16"	1
6 C 17432	SPRING - relief	1
7 C 17433	SCREW - relief adjust	1
8 C 17435	GASKET - relief adjust cap	1
9 129- 531	CAP - adjust screw	1
10 221- 841	PLUG - 1/4"	3
11 221- 843	PLUG - 3/8"	2



C22019 HYDRAULIC CONTROL VALVE KIT (Two Spool)

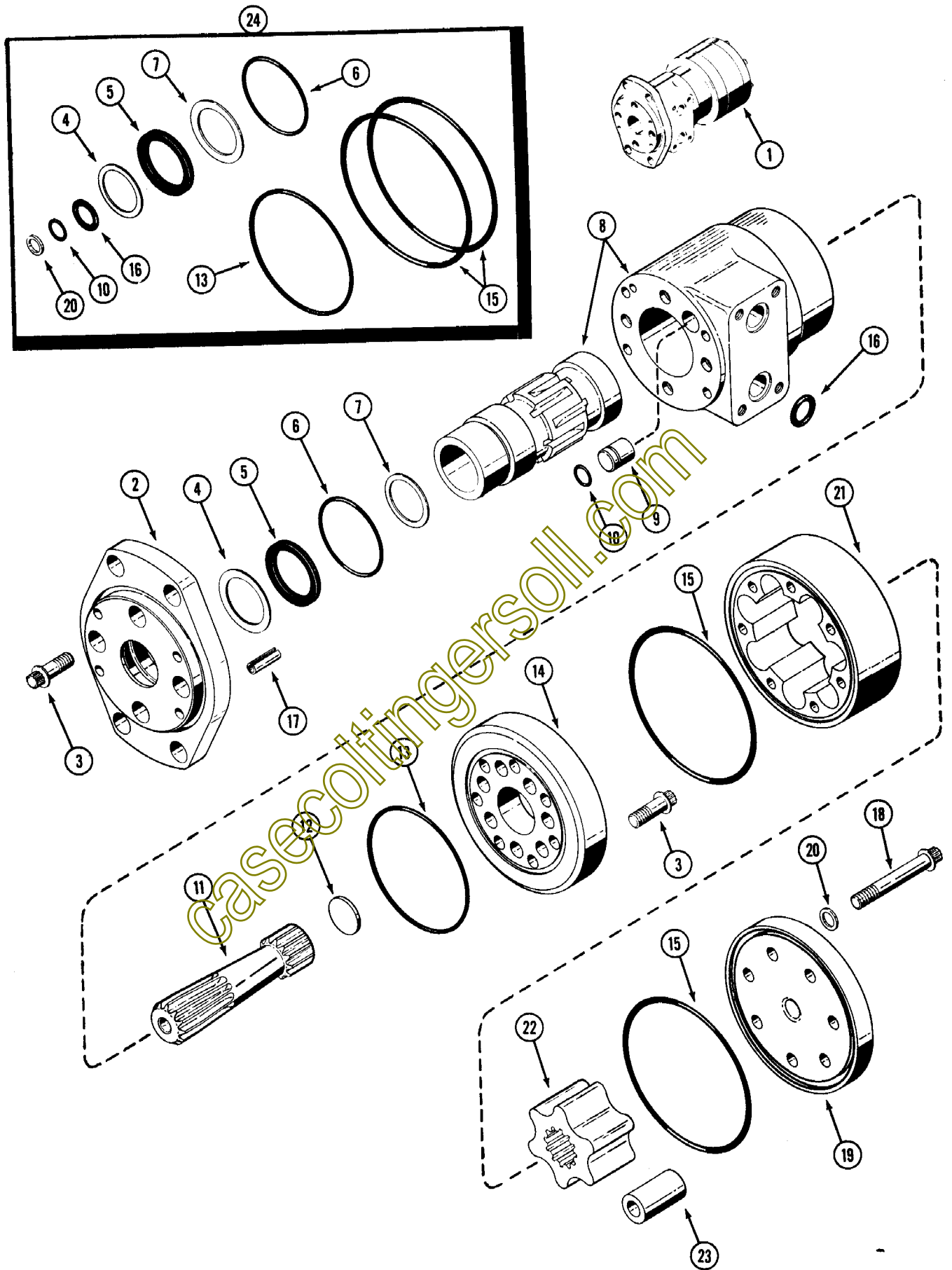
(FOR REPLACEMENT OF C16493 HYDRAULIC VALVE)

REF.	PART NO.	DESCRIPTION	REQ'D
	C 21496	VALVE - control, two spool	1
1	A 60273	RING - retaining	2
2	NSS	SPOOL - motor (Order C21496)	1
3	NSS	SPOOL - float (Order C21496)	1
4	A 7982	SEAL - spool	4
5	NSS	BODY - valve (Order C21496)	1
6	211- 9	BALL - steel 5/16"	1
7	C 21507	SPRING - relief	2
8	C 17433	SCREW - relief adjust	1
9	C 17435	GASKET - relief adjust cap	1
10	129- 531	CAP - adjust screw	2
11	C 17439	DETENT - spool	1
12	C 13200	SPACER - detent	1
13	C 18850	SPRING - detent return	1
14	C 17440	WASHER - return	1
15	C 21505	SPRING - relief	1
16	211- 7	BALL - steel 1/4"	3
17	C 17438	COVER - detent	1
18	C 17443	SCREW - detent	2
19	C 17444	SPRING - detent	2
20	169- 114	SCREW - cover	2
21	221- 841	PLUG - pipe	1
22	C 21506	RETAINER - ball seat	1
23	C 21509	SCREW - adjust, relief	1
24	C 21508	GASKET - adjust cap	1
25	C 21510	CAP - adjust screw	1
26	C 19025	JOINT - ball	2
27	129- 122	NUT - 5/16" N.F. hex, zinc plated	2
28	C 18742	ROD - control	2
29	132- 26	PIN - cotter 3/32" x 3/4"	2
30	195- 521	WASHER - 5/16"	2
	C 21504	KIT - relief (includes items 6, 7, 22, 23, 24 and 25)	1
	C 21511	KIT - relief (includes items 8, 9, 10, 15 and 16)	1
	C 18851	KIT - detent (includes items 11, 12, 13, 14, 16, 17, 18, 19 and 20)	1

C22020 HYDRAULIC CONTROL VALVE KIT (Single Spool)

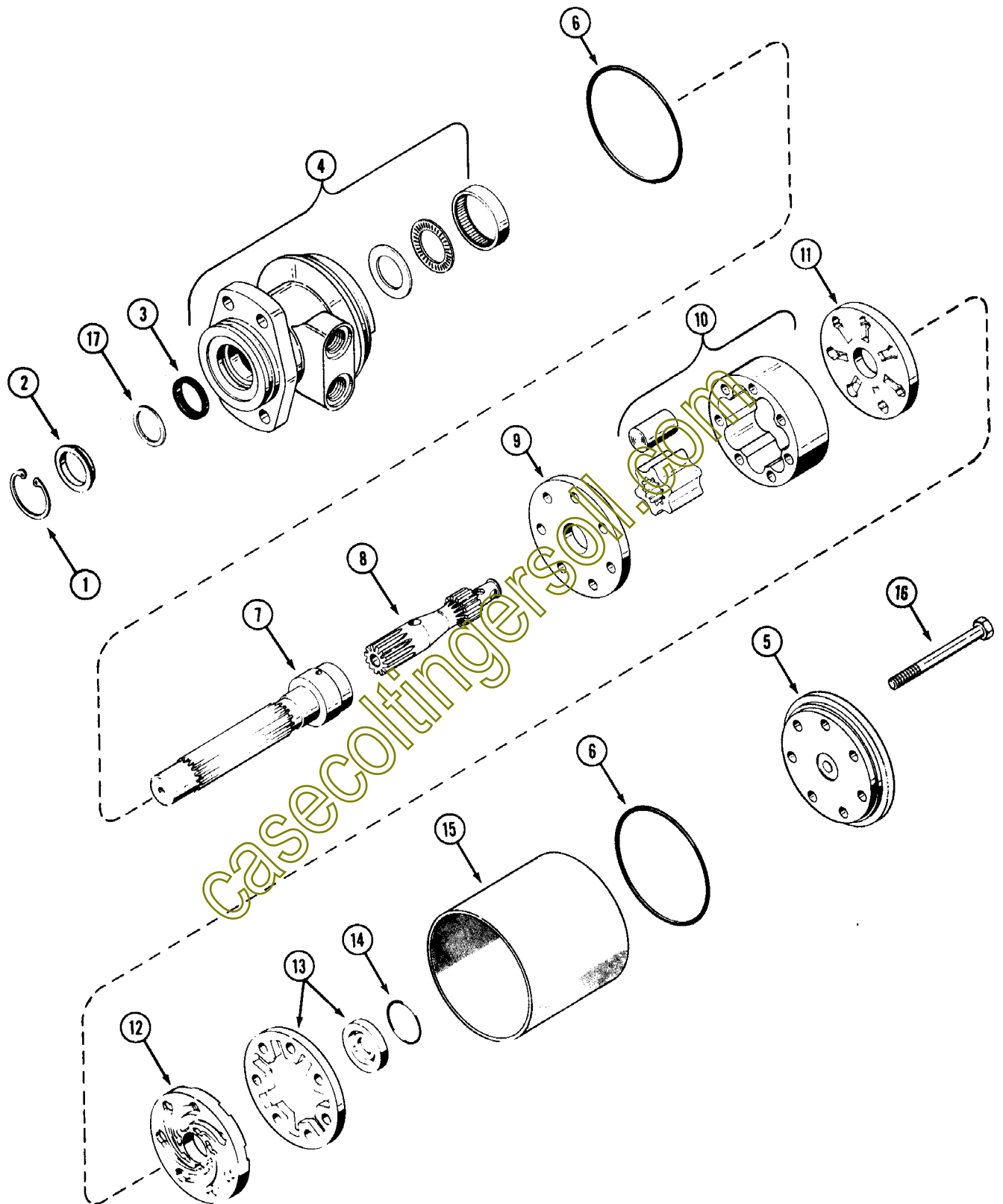
(FOR REPLACEMENT OF C16492 HYDRAULIC VALVE)

	C 21495	VALVE - control, single spool	1
1	A 60273	RING - retaining	2
2	NSS	SPOOL - control (Order C21495)	1
3	A 7982	SEAL - spool	2
4	NSS	BODY - valve (Order C21495)	1
5	211- 9	BALL - steel 5/16"	1
6	C 21507	SPRING - relief	1
7	C 21509	SCREW - relief adjust	1
8	C 21508	GASKET - relief adjust cap	1
9	C 21510	CAP - adjust screw	1
10	221- 841	PLUG - 1/4"	1
11	C 21506	RETAINER - ball seat	1
12	C 19025	JOINT - ball	1
13	C 18742	ROD - control	1
14	129- 122	NUT - 5/16" N.F. hex, zinc plated	1
15	195- 521	WASHER - 5/16"	1
16	132- 26	PIN - cotter 3/32" x 3/4"	1



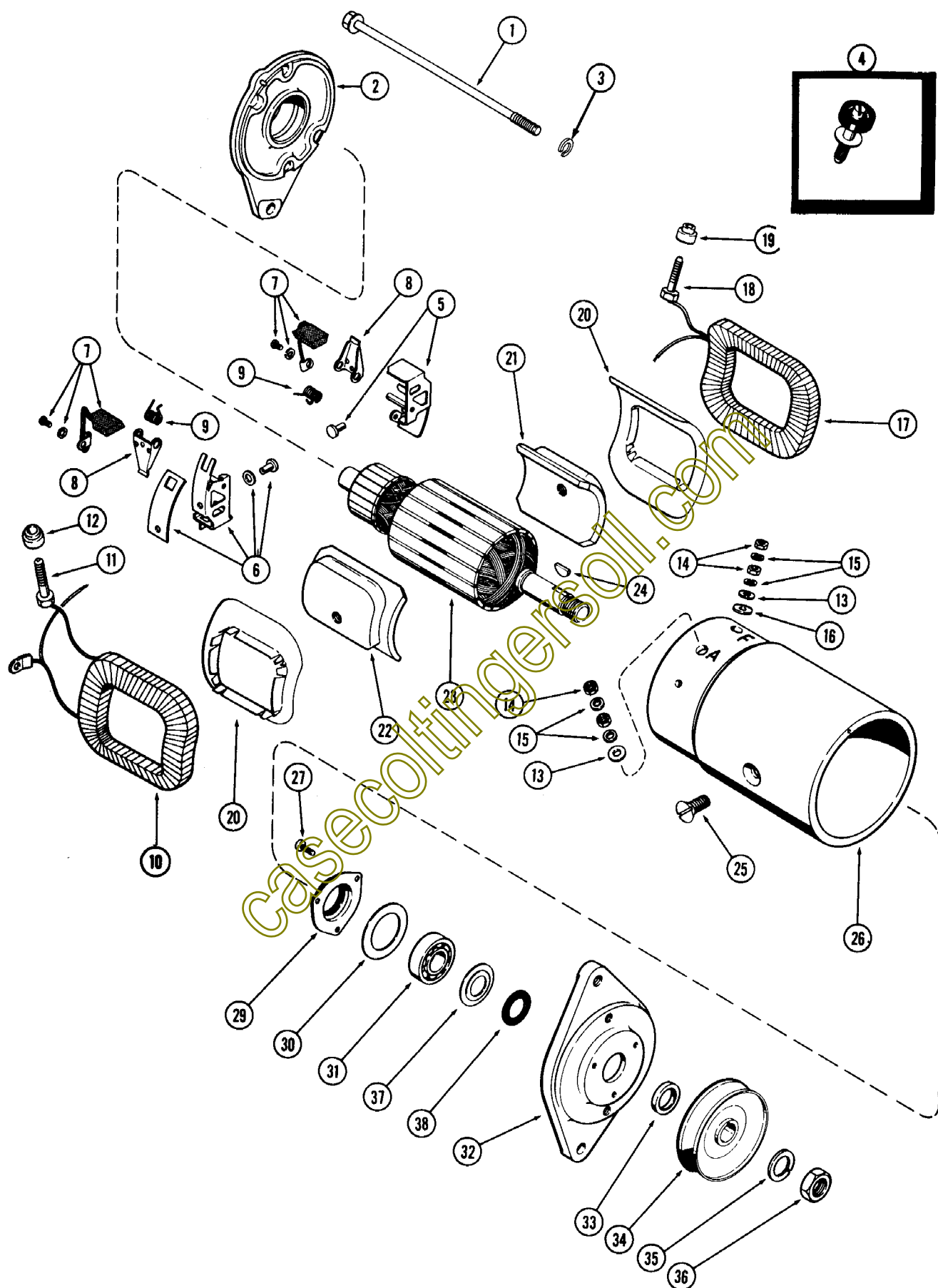
HYDRAULIC DRIVE MOTOR

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 13047	MOTOR - hydraulic drive (220) (used prior to S/N 9649062).....	1
1	C 13047	MOTOR - hydraulic drive (222) (used prior to S/N 9647203).....	1
2	C 14816	PLATE - mounting	1
3	166- 524	SCREW - cap, ferry 5/16 x 7/8" NF.....	11
4	NSS	WASHER - back up (See Ref. 24)	1
5	NSS	QUAD RING - mounting plate (See Ref. 24)	1
6	NSS	"O" RING - mounting plate (See Ref. 24)	1
7	C 14817	WASHER - thrust (See Ref. 24)	1
8	C 14818	SHAFT AND HOUSING ASSEMBLY	1
9	A 72034	PLUG - housing	1
10	NSS	"O" RING - housing plug	1
11	C 14819	COUPLING - drive for C13047 motor	1
12	C 13962	SPACER - coupling	1
13	NSS	"O" RING - housing to spacer plate (See Ref. 24)	1
14	C 14784	PLATE - spacer.....	1
15	NSS	"O" RING - spacer plate to geroler (See Ref. 24)	2
16	A 27410	"O" RING - housing.....	2
17	138- 134	PIN - roll 1/4 x 1"	4
18	166- 535	SCREW - cap, end 5/16 x 2-1/8" NF	7
19	C 14783	CAP - end	1
20	C 14301	WASHER - end cap	7
	C 14822	KIT - geroler (For C13047 motor) (220 & 222)	1
21	NSS	HOUSING - roller geroler	1
22	NSS	GEROLER.....	1
23	NSS	ROLLER	6
24	C 17811	KIT - "O" RING AND SEAL (Includes items 4, 5, 6, 7, 10, 13, 15, 16 and 20. Also items 17 and 19 on page 47).....	1



HYDRAULIC DRIVE MOTOR

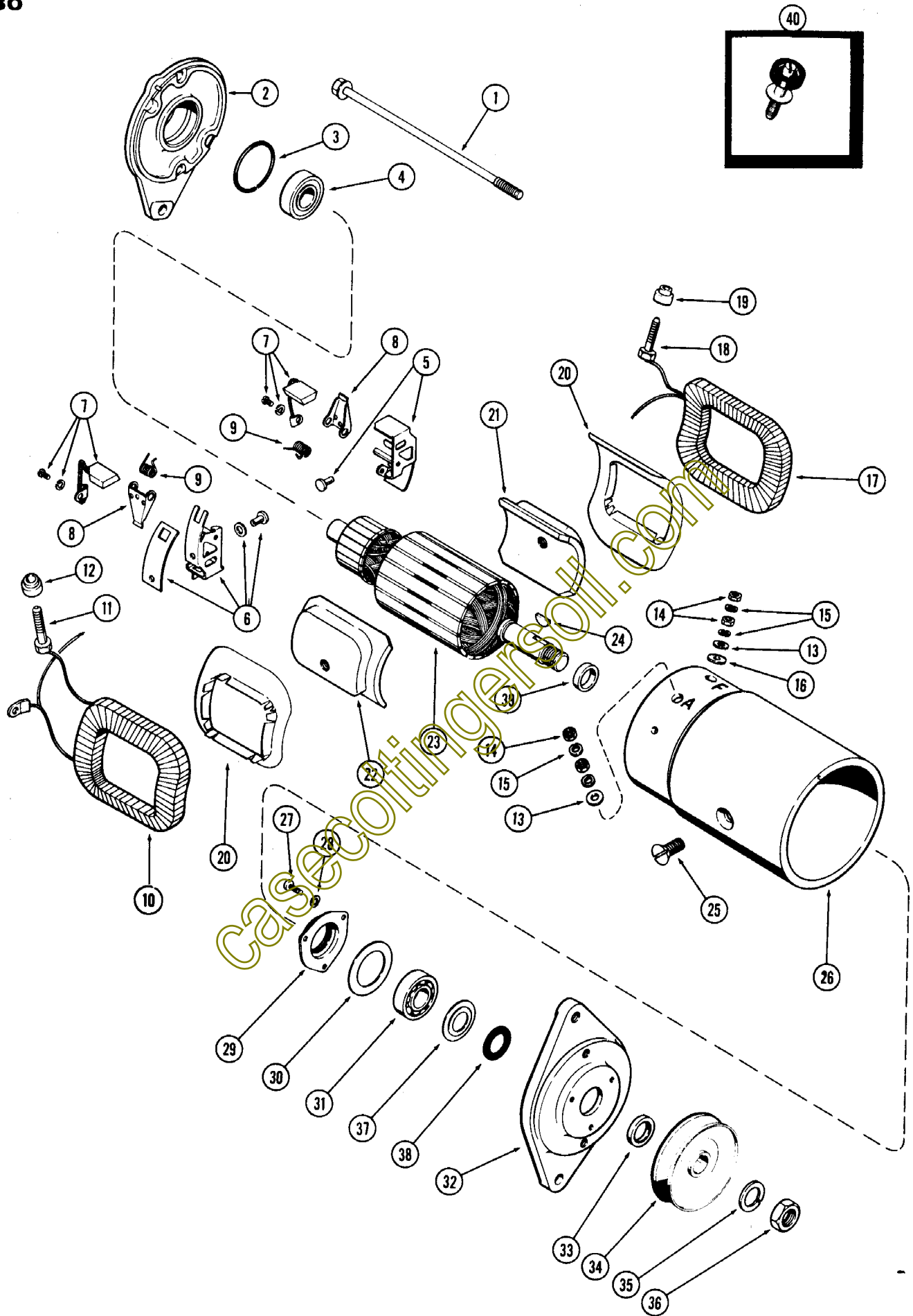
REF.	PART NO.	DESCRIPTION	REQ'D
	C 16697	MOTOR - hydraulic, 220 (used S/N 9649062 and after)	1
	C 16697	MOTOR - hydraulic, 222 (used S/N 9647203 and after)	1
	C 14655	MOTOR - hydraulic, 442 & 444	1
1	C 16516	RING - retaining	1
2	NSS	SPACER - (See kits below)	1
3	NSS	SEAL - oil (See kits below)	1
4	C 14827	HOUSING ASSEMBLY - 442 & 444	1
5	C 14837	END CAP.	1
6	NSS	SEAL - (See kits below)	2
7	C 14828	SHAFT - coupling	1
8	D 72853	DRIVE LINK - 220 & 222	1
8	C 14829	DRIVE LINK - 442 & 444	1
9	C 14830	PLATE - wear	1
10	C 18110	ROTOR ASSEMBLY - 220 & 222	1
10	C 14831	ROTOR ASSEMBLY - 442 & 444	1
11	NSS	PLATE - manifold (order C24731 kit)	1
12	C 24731	KIT - manifold (includes plate)	1
13	C 14834	COMMUTATOR AND RING SET	1
14	NSS	RING - sealing (See kit below)	1
15	C 18092	SLEEVE - 220 & 222	1
15	C 14836	SLEEVE - 442 & 444	1
16	28- 662	BOLT - 3/8" x 3-7/8" NF hex, 220 & 222	7
16	C 14838	BOLT - 3/8" x 4-3/8" NF hex, 442 & 444	7
	C 19037	KIT - "O" ring and seal, (includes items 1, 2, 3, 6, 14 & 17) . . .	1
17	C 19212	WASHER - back up .010"	1



C16852 STARTER-GENERATOR

DELCO #1101875 (Order A 70202 Starter)

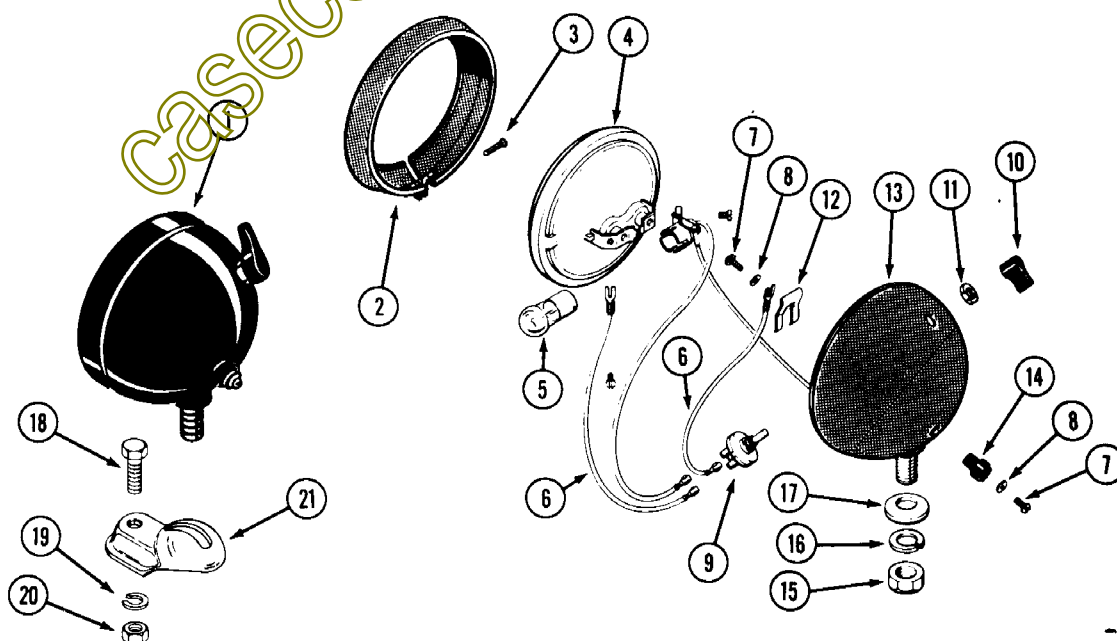
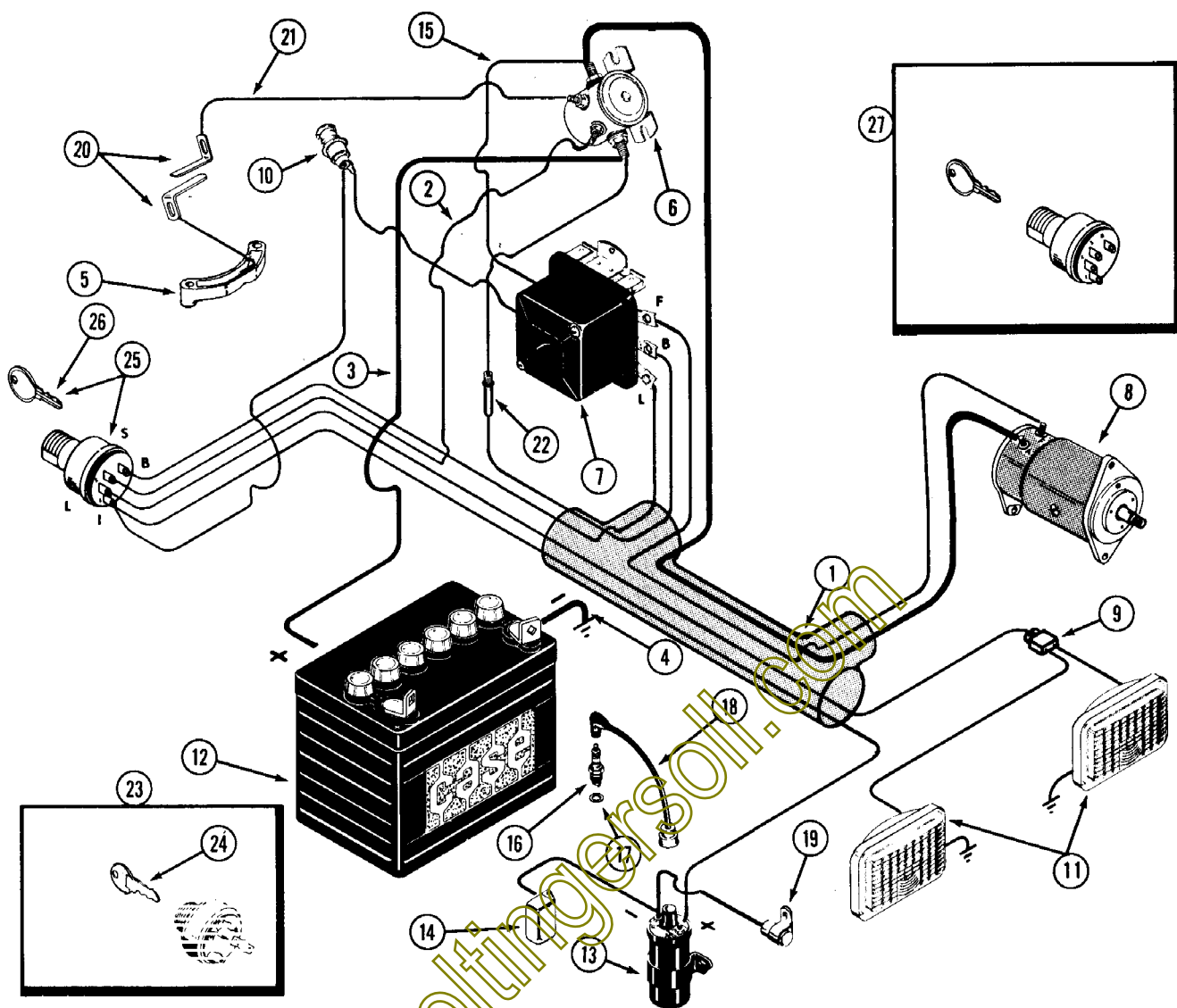
REF.	PART NO.	DESCRIPTION	REQ'D
1	R 15106	BOLT - through	2
2	A 43494	FRAME ASSEMBLY - commutator end	1
3	192- 20	LOCKWASHER - 5/16"	2
4	A 40702	KIT - stud (Includes items 16, 18 and 19)	1
5	A 72039	HOLDER KIT - ground brush	1
6	A 72040	HOLDER KIT - insulated brush	1
7	A 72038	BRUSH ASSEMBLY	2
8	R 15090	ARM - brush pressure	2
9	R 16161	SPRING - brush arm	2
10	A 72042	COIL ASSEMBLY - field R. H.	1
11	A 72048	STUD - armature terminal	1
12	R 16147	BUSHING - insulated, armature stud	1
13	A 41927	WASHER - armature stud	2
14	129- 18	NUT - terminal stud 12-24 hex	4
15	192- 17	LOCKWASHER - terminal stud #12	4
16	R 16148	WASHER - insulated, field stud (Order A40702)	1
17	A 72043	COIL ASSEMBLY - field L. H.	1
18	NSS	STUD - field terminal (Order A40702)	1
19	R 15077	BUSHING - insulated, field stud (Order A40702)	1
20	A 25447	INSULATOR - field coil	2
21	A 40736	SHOE - pole	1
22	A 40736	SHOE - pole	1
23	A 43495	ARMATURE	1
24	126- 111	KEY - Woodruff, armature	1
25	A 42127	SCREW - pole	2
26	NSS	BODY - starter, generator (Order C16852)	1
27	A 41959	SCREW - 10-32 x 1/2" round head	3
29	A 44433	RETAINER ASSEMBLY - bearing (Includes Refs. 37 and 38)	1
30	R 16170	GASKET - bearing retainer	1
31	A 43356	BEARING - ball, drive end	1
32	A 72046	FRAME ASSEMBLY - drive end	1
33	A 72047	SPACER - pulley	1
34	C 14344	PULLEY - starter, generator drive	1
35	192- 26	LOCKWASHER - 11/16" plated	1
36	A 25546	NUT - armature shaft, drive end	1
37	NSS	RETAINER - grease (Order A72050)	1
38	NSS	SEAL - felt (Order A72050)	1



A70202 STARTER-GENERATOR

DELCO 1101970 (Service Replacement)

REF.	PART NO.	DESCRIPTION	REQ'D
1	R 15106	BOLT - through (Includes washer)	2
2	A 72104	FRAME ASSEMBLY - commutator end	1
3	R 15087	RING - bearing retainer	1
4	A 25461	BEARING - commutator end ball	1
5	A 72039	HOLDER KIT - ground brush	1
6	A 72040	HOLDER KIT - insulated brush	1
7	A 72038	BRUSH ASSEMBLY	2
8	R 15090	ARM - brush pressure	2
9	R 16161	SPRING - brush arm	2
10	A 72042	COIL ASSEMBLY - field R.H.	1
11	A 72048	STUD - armature terminal	1
12	R 16147	BUSHING - insulated, armature stud	1
13	A 41927	WASHER - armature stud	2
14	129- 18	NUT - terminal stud 12-24 hex	4
15	192- 17	LOCKWASHER - terminal stud #12	4
16	R 16148	WASHER - insulated, field stud	1
17	A 72043	COIL ASSEMBLY - field L.H.	1
18	NSS	STUD - field terminal (See Ref. 40)	1
19	R 15077	BUSHING - insulated, field stud (Order A40702)	1
20	A 25447	INSULATOR - field coil	2
21	A 40736	SHOE - pole, plain	1
22	A 40736	SHOE - pole, noticed	1
23	A 72041	ARMATURE	1
24	126- 111	KEY - Woodruff, armature	1
25	74- 610	SCREW - pole	2
26	NSS	BODY - starter, generator (Order A70202)	1
27	173- 237	SCREW - 10-32 x 1 1/2" rd. hd.	3
28	192- 18	LOCKWASHER - 3/16" plated	3
29	A 44433	RETAINER ASSEMBLY - bearing (Includes Ref. 37 and 38)	1
30	R 16170	GASKET - bearing retainer	1
31	A 43356	BEARING - ball, drive end	1
32	A 72046	FRAME ASSEMBLY - drive end	1
33	A 72047	SPACER - pulley	1
34	C 14344	PULLEY - starter, generator drive	1
35	192- 26	LOCKWASHER - 11/16" plated	1
36	A 25546	NUT - armature shaft, drive end	1
37	NSS	RETAINER - grease (Order A72050)	1
38	NSS	SEAL - felt (Order A72050)	1
39	NSS	SPACER - armature shaft, inner	1
40	A 40702	KIT - stud (Includes items 16, 18 and 19)	1



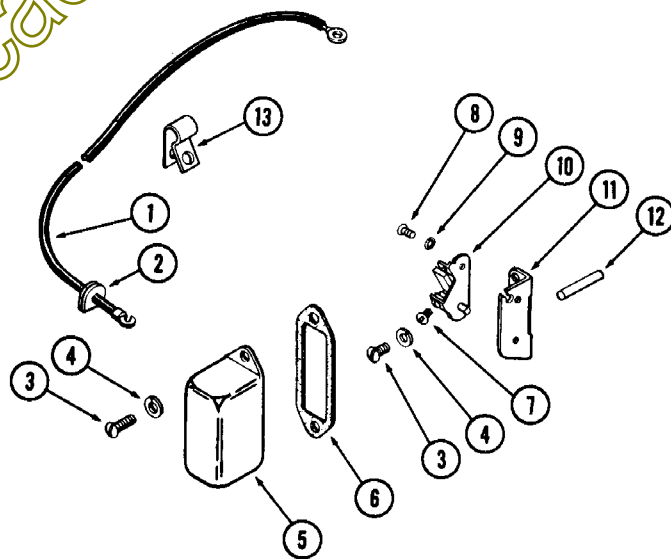
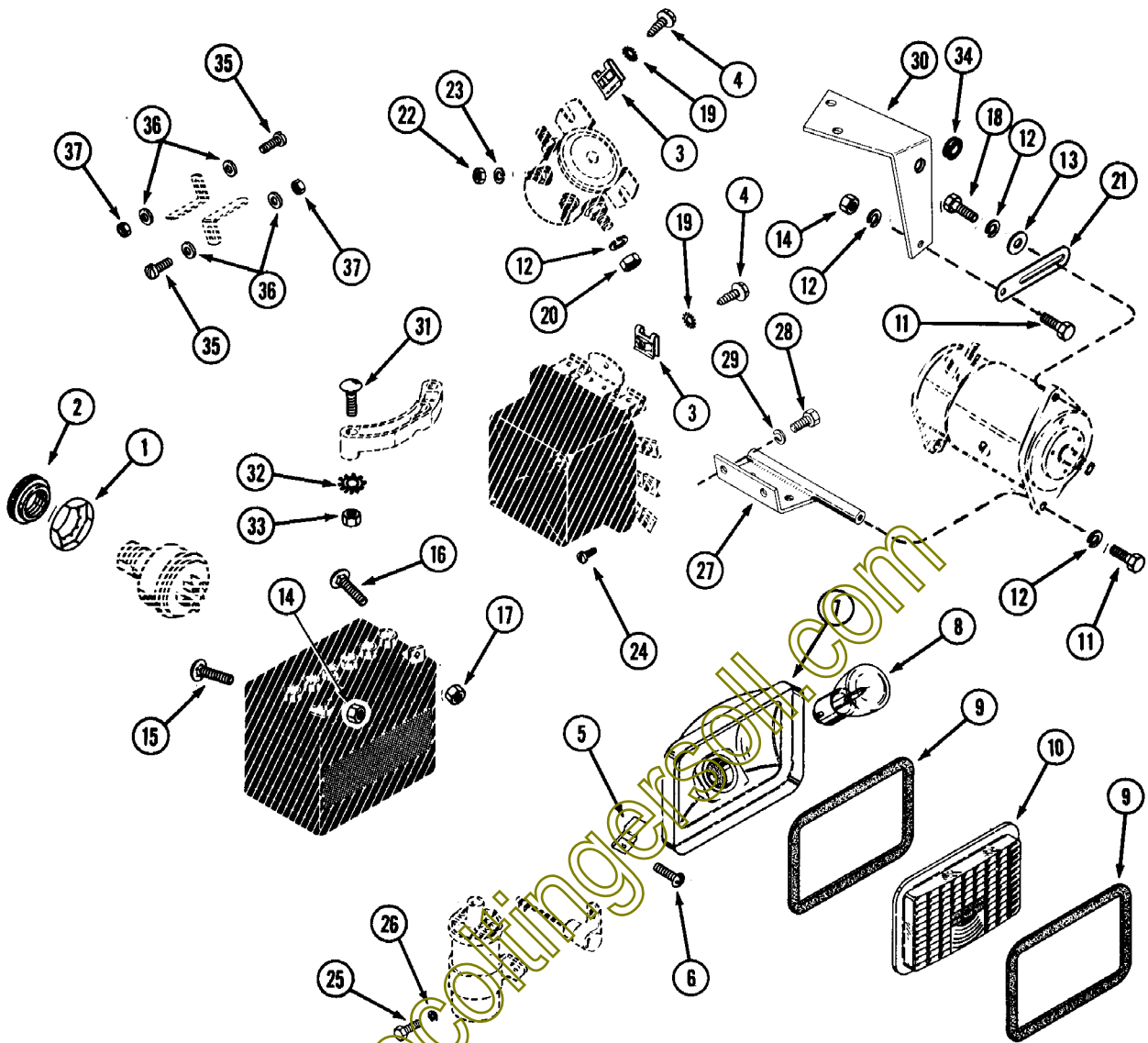
ELECTRICAL SYSTEM

REF. PART NO.	DESCRIPTION	REQ'D
1 C 18005	HARNESS - wire	1
2 C 17187	WIRE - ignition switch to solenoid (yellow 8")	1
3 C 14565	CABLE - battery to solenoid (red 10-1/2")	1
4 C 14566	CABLE - battery to ground (black 12")	1
5 C 21993	SWITCH - neutral safety	1
6 C 14553	SOLENOID - start	1
7 NSS	REGULATOR - voltage, 12 volt (order C24221)	1
8 C 16852	STARTER - generator 12 V. (Repairs page 59) Delco No. 1101875	1
8 A 70202	STARTER - generator 12 V. (Repairs page 61) Delco No. 1101970	1
9 C 14537	CONNECTOR - headlamp	1
10 C 17186	LAMP ASSEMBLY - warning, generator indicator	1
B 50213	BULB - generator indicator (red)	1
11 C 22571	HEADLAMP ASSEMBLY - 12 volt (Repairs page 63)	2
12 C 18197	BATTERY - 12 volt	1
13 KO 231281	COIL - ignition 12 volt	1
14 KO 232535	COVER - breaker contacts	1
15 C 17275	WIRE - regulator ground to solenoid (white 7")	1
16 C 24301	SPARK PLUG - (includes gasket)	1
17 A 27251	GASKET - spark plug	1
18 V 34433	CABLE - high tension	1
19 KO 230722	CONDENSER	1
20 C 19055	SWITCH - PTO safety, 220 (used S/N 9647856 and after)	2
20 C 19055	SWITCH - PTO safety, 222 (used S/N 9649590 and after)	2
20 C 19055	SWITCH - PTO safety, 442 (used S/N 9650949 and after)	2
20 C 19055	SWITCH - PTO safety, 444 (used S/N 9653291 and after)	2
21 C 18140	WIRE - solenoid to PTO safety switch (black 17")	1
22 223- 20	FUSE - 20 amp. (used in C18005 harness)	1
23 NSS	SWITCH - ignition (order C23839 and C17808)	1
24 C 12684	KEY - ignition, 220 (used prior to S/N 9647623)	1
24 C 12684	KEY - ignition, 222 (used prior to S/N 9649384)	1
24 C 12684	KEY - ignition, 442 (used prior to S/N 9658013)	1
24 C 12684	KEY - ignition, 444 (used prior to S/N 9652857)	1
25 C 23839	SWITCH - ignition (includes key) used 220 S/N 9647623 and after)	1
25 C 23839	SWITCH - ignition (includes key) used 222 S/N 9649384 and after)	1
25 C 23839	SWITCH - ignition (includes key) used 442 S/N 9658013 and after)	1
25 C 23839	SWITCH - ignition (includes key) used 444 S/N 9652857 and after)	1
26 C 17763	KEY - ignition (for C17796 switch)	1
27 C 23839	KIT - ignition switch	1
A 2409	KEY - ignition	1
C 17808	DECAL - ignition	1

TAIL LAMP

(A20965)

1 NSS	LAMP ASSEMBLY - flood and tail (order D70115)	1
2 B 50265	MOLDING - lamp retaining	1
3 16934	SCREW - molding	1
4 A 40855	LAMP - sealed unit	1
5 B 50223	BULB - red 15 C.P. 12 volt	1
6 B 50273	WIRE - switch	2
7 173- 73	SCREW - wire	2
8 193- 4	WASHER - 1/4" lock	2
9 NSS	SWITCH (order A43182 kit)	1
10 NSS	KNOB - switch	1
11 A 39888	NUT - switch	1
12 10927	SPRING - terminal	1
13 NSS	BODY	1
14 B 50293	TERMINAL - wire	1
15 129- 105	NUT - 1/2" NC hex	1
16 192- 23	WASHER - 1/2" lock	1
17 10923	WASHER - bearing	1
18 113- 209	BOLT - 3/8 x 1-1/2" NC hex, zinc plated	1
19 192- 21	LOCKWASHER - 3/8" zinc plated	1
20 129- 103	NUT - 3/8" NC hex, zinc plated	1
21 A 34046	BRACKET - mounting, tail lamp	1
22 A 43182	KIT - switch (includes knob)	1

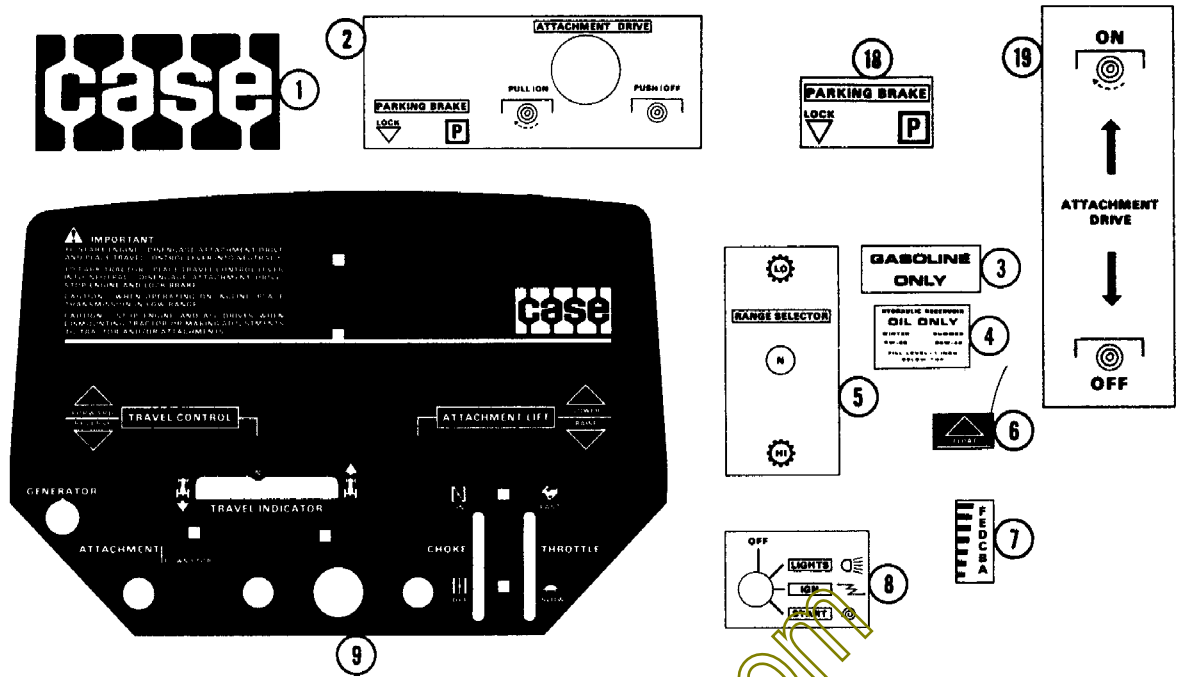


ELECTRICAL SYSTEM HARDWARE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 14060	NUT - back up 3/4"	1
2	C 17921	NUT - escutcheon 3/4"	1
3	C 10836	NUT - speed type "U"	4
4	187- 485	SCREW - #10 x 5/8" Self-Tapping Hex, Zinc Plated	4
5	131- 629	NUT - speed type "U"	4
6	187- 1047	SCREW - #8 x 1/2" Self-Tapping round head, Phillips	4
	C 22571	HEADLAMP ASSEMBLY	2
7	NSS	RECEPTACLE - headlamp (Order C14302)	1
8	C 14305	BULB - headlamp	1
9	C 14304	GASKET - headlamp	2
10	C 22573	LENS - headlamp	1
11	113- 103	BOLT - 5/16 x 1" NC hex, zinc plated	2
12	192- 20	LOCKWASHER - 5/16" zinc plated	5
13	195- 520	WASHER - 5/16" plain, zinc plated	2
14	129- 102	NUT - 5/16" NC hex, zinc plated	2
15	111- 202	BOLT - 5/16 x 3/4" NC, round head, square neck	1
16	111- 108	BOLT - 1/4 x 3/4" NC, round head, square neck	1
17	129- 101	NUT - 1/4" NC hex	1
18	113- 102	BOLT - 5/16 x 3/4" NC hex, zinc plated	1
19	193- 70	LOCKWASHER - #10 external tooth	4
20	129- 122	NUT - 5/16" NF hex	2
21	C 14599	BRACKET - starter generator adjust	1
22	129- 27	NUT - #10 NF hex	2
23	192- 18	LOCKWASHER - #10	2
24	169- 131	SCREW - #8 x 5/16" NC fillister head	3
25	113- 1	BOLT - 1/4 x 1/2" NC hex, zinc plated	2
26	192- 19	LOCKWASHER - 1/4" zinc plated	2
27	C 18788	SUPPORT - starter generator	1
28	113- 206	BOLT - 3/8 x 3/4" NC hex	2
29	192- 21	LOCKWASHER - 3/8"	2
30	NSS	SUPPORT - starter generator adjust (order C18999)	1
31	111- 131	BOLT - 1/4 x 1-1/8" NC round head, square neck	2
32	193- 57	LOCKWASHER - 1/4" external tooth	2
33	129- 101	NUT - 1/4" NC hex	2
34	C 17546	GROMMET - wire	1
35	C 18204	SCREW - nylon #10 x 5/8" binder head	2
36	C 15703	WASHER - nylon 3/16"	4
37	C 15704	NUT - nylon #10-32	2

BREAKER CONTACTS

1	NSS	LEAD - breaker contact (purchase from local supplier)	1
2	KO 220297	GROMMET - contact lead	1
3	173- 210	SCREW - #10 x 3/8" round head, zinc plated	4
4	192- 18	LOCKWASHER - 3/16" zinc plated	4
5	KO 232535	COVER - breaker contact	1
6	KO 220174	GASKET - cover	1
7	187- 408	SCREW - #6 x 3/8" Self-Tapping	1
8	173- 224	SCREW - #8 x 1/4" NC round head	1
9	193- 5	LOCKWASHER - #8 internal tooth	1
10	C 24135	POINT SET - breaker contact assembly	1
11	NSS	BRACKET - breaker contact (order item 10)	1
12	C 23870	ROD - breaker contact push	1
13	KO 275182	CLIP - wire	1



Case hydraulic drive **220**

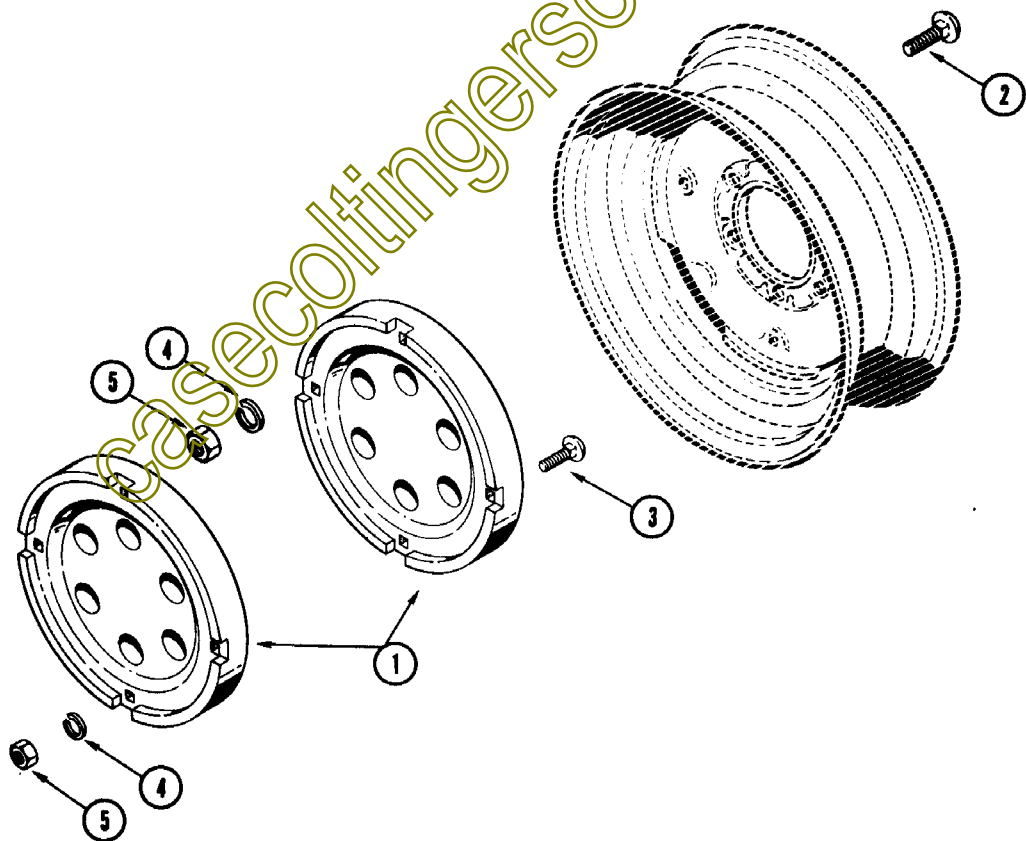
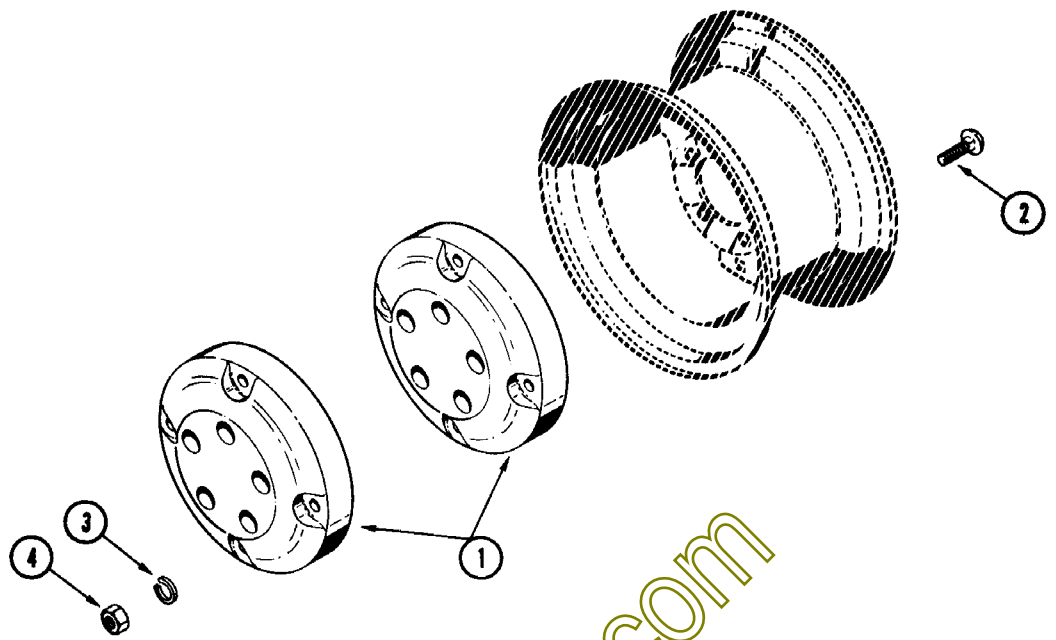
Case hydraulic drive **222**

Case hydraulic drive **442**

Case hydraulic drive **444**

DECALS

REF.	PART NO.	DESCRIPTION	REQ'D
1	321- 1571	DECAL - "CASE"	1
2	321- 2111	DECAL - attachment drive	1
3	321- 18	DECAL - gasoline	1
4	C 14539	DECAL - hydraulic reservoir	1
5	321- 1788	DECAL - shift range	1
6	321- 1785	DECAL - float	1
7	321- 1789	DECAL - attachment height	1
8	321- 1786	DECAL - ignition switch	1
9	321- 1784	DECAL - instrument panel	1
10	C 15690	DECAL - hood 220 R.H.	1
11	C 15691	DECAL - hood 220 L.H., hydraulic drive	1
12	C 15692	DECAL - hood 222 R.H.	1
13	C 15693	DECAL - hood 222 L.H., hydraulic drive	1
14	C 15694	DECAL - hood 442 R.H.	1
15	C 15695	DECAL - hood 442 L.H., hydraulic drive	1
16	C 15696	DECAL - hood 444 R.H.	1
17	C 15697	DECAL - hood 444 L.H., hydraulic drive	1
18	321- 2110	DECAL - brake 220 (used S/N 9647856 and after)	1
18	321- 2110	DECAL - brake 222 (used S/N 9649590 and after)	1
18	321- 2110	DECAL - brake 442 (used S/N 9650949 and after)	1
18	321- 2110	DECAL - brake 444 (used S/N 9653291 and after)	1

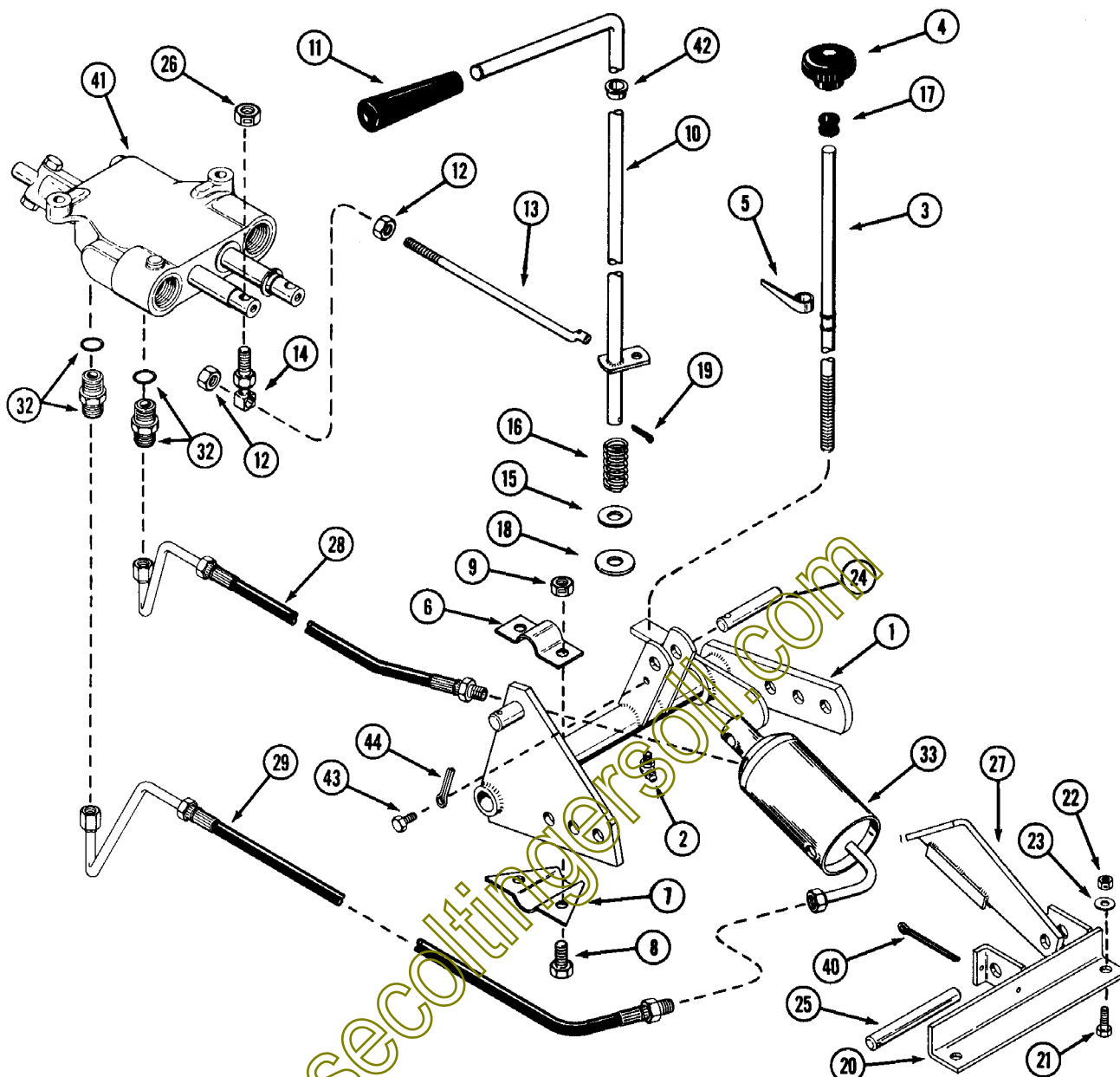


D8 WHEEL WEIGHTS - MODEL 220 AND 222

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

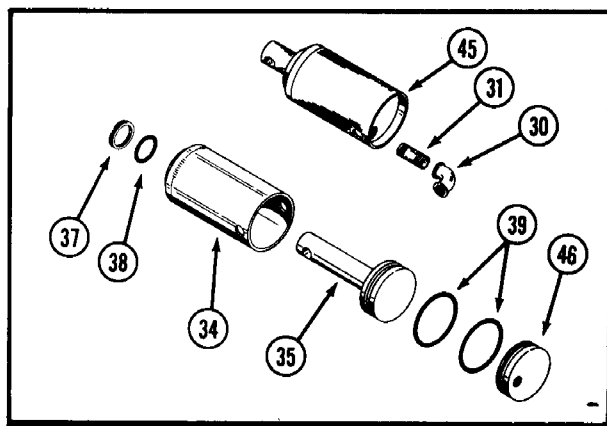
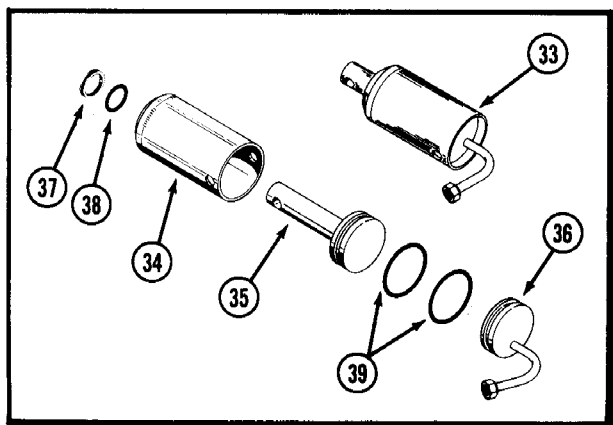
D10 WHEEL WEIGHTS - MODEL 442 AND 444

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



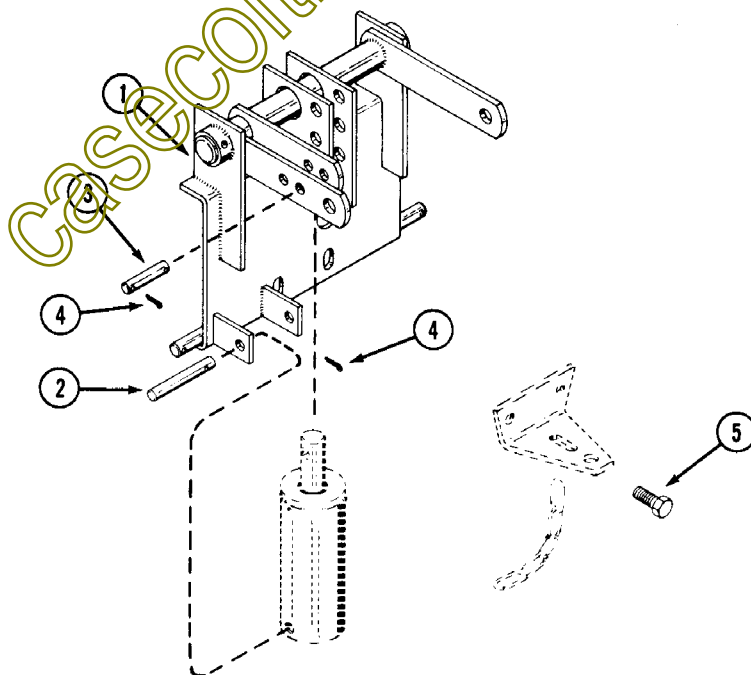
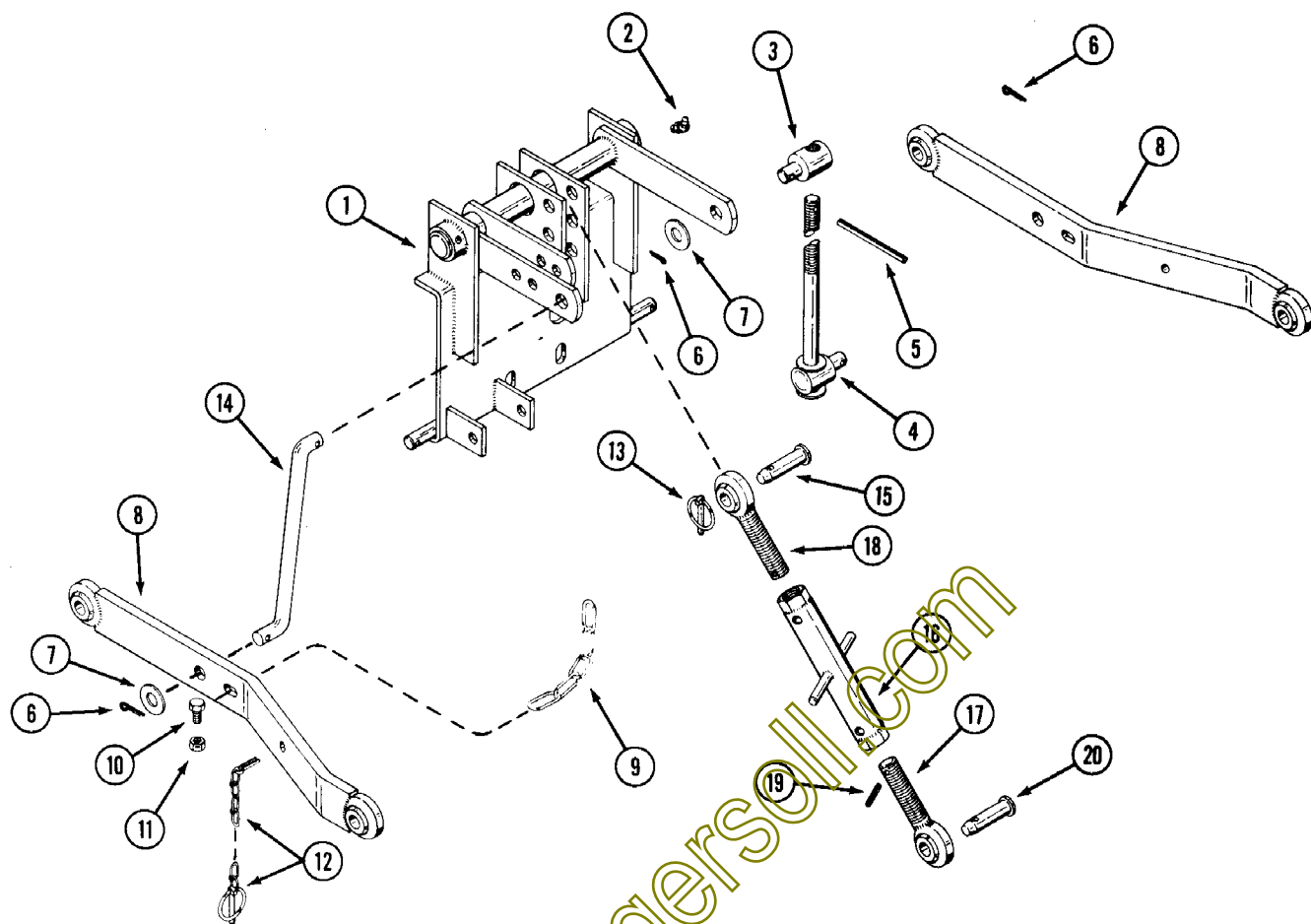
USED ON MODELS 220 S/N 9650692 AND AFTER
 USED ON MODELS 222 S/N 9649209 AND AFTER
 USED ON MODELS 442 S/N 9647413 AND AFTER
 USED ON MODELS 444 S/N 9652542 AND AFTER

USED ON MODELS 220 PRIOR TO S/N 9650692
 USED ON MODELS 222 PRIOR TO S/N 9649209
 USED ON MODELS 442 PRIOR TO S/N 9647413
 USED ON MODELS 444 PRIOR TO S/N 9652542



MODEL H30 HYDRAULIC LIFT

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 17314	CROSS SHAFT ASSEMBLY	1
2	219- 404	FITTING - lube	1
3	C 16741	ROD - height adjust	1
4	C 16751	KNOB - height adjust	1
5	C 16750	ARM - indicator	1
6	C 17249	BRACKET - mounting, top	2
7	C 17250	BRACKET - mounting, bottom	2
8	113- 221	BOLT - 3/8" x 7/8" NC hex	4
9	131- 178	NUT - 3/8" NC hex	4
10	C 16163	LEVER - lift control	1
11	A 37247	KNOB - control lever	1
12	129- 102	NUT - 5/16" NC hex	2
13	C 16412	ROD - control	1
14	C 16683	BALL JOINT	1
15	C 21518	WASHER - oilite	1
16	C 17612	SPRING - control lever	1
17	C 18144	BUSHING - height adjust	1
18	195- 53 ⁹	WASHER - 1/2" ZP	1
19	132- 349	PIN - cotter 1/8" x 1"	1
20	C 17575	BRACKET - cylinder	1
21	113- 207	BOLT - 3/8" x 1" NC hex	2
22	131- 178	NUT - lock 3/8" NC hex	2
23	195- 104	WASHER - 3/8" x 1-1/8" O.D.	2
24	C 17628	PIN - cylinder to lever	1
25	C 17536	PIN - cylinder foot	1
26	131- 176	NUT - lock 5/16" NC hex	1
27	C 18019	ARM - height adjust	1
28	C 17224	HOSE - short	1
29	C 17225	HOSE - long (use with C16134 cylinder)	1
29	C 17734	HOSE - long (use with C18318 cylinder)	1
30	221- 1375	ELBOW - 1/4" x 90° (use with C16134 cylinder)	1
31	221- 1131	NIPPLE - 1/4" x 1" (use with C16134 cylinder)	1
32	218- 5056	FITTING - valve (includes 218-5004 "O" ring)	2
33	C 18318	CYLINDER - lift	1
34	C 16133	BODY - cylinder	1
35	C 19104	ROD AND PISTON ASSEMBLY	1
36	C 17732	FOOT - cylinder (use with C18318 cylinder)	1
37	NSS	SEAL	1
38	NSS	"O" RING	1
39	NSS	"O" RING	2
	C 17268	KIT - seal, cylinder (consists of items 37, 38 and 39)	1
40	132- 361	PIN - cotter 3/16" x 2-1/2"	1
41	NSS	VALVE - hydraulic, 2 spool (Repairs page 53)(Order C22019 kit)	1
42	C 12093	BUSHING - lift lever	1
43	187- 1006	SCREW - 1/4" x 5/8" NC hex, self-tapping	1
44	132- 348	PIN - cotter 1/4" x 1-1/4"	1
45	C 16134	CYLINDER - lift	1
46	C 14692	FOOT - cylinder (use with C16134 cylinder)	1



73

CASE 220, 222, 442 AND 444 COMPACT TRACTORS

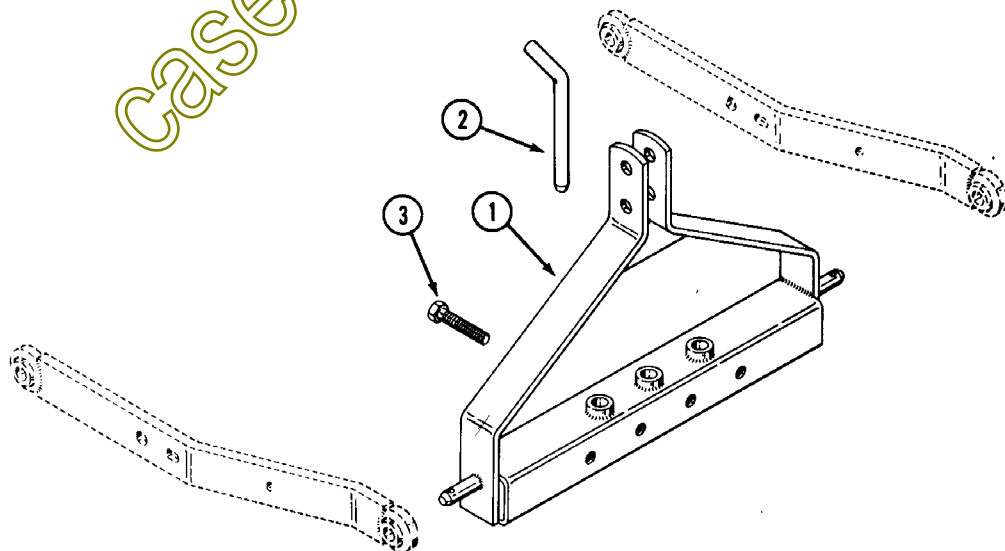
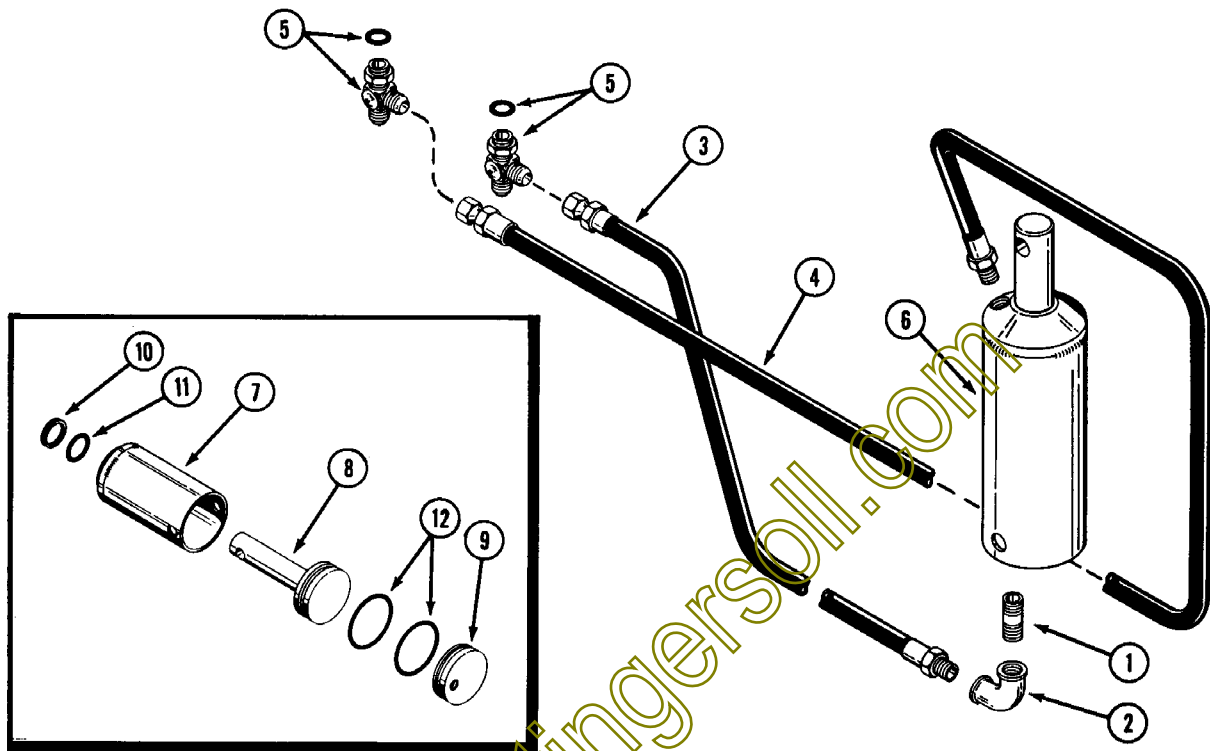
H26 THREE POINT HITCH 442 AND 444

FRAME, LIFT RODS AND ARMS

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 19740	HITCH PLATE ASSEMBLY.....	1
2	219- 405	FITTING - lube	2
3	C 14722	NUT - lift rod	1
4	C 14724	ROD ASSEMBLY - R. H. lift	1
5	138- 309	PIN - roll 1/4 x 4"	1
6	132- 91	PIN - cotter 3/16 x 1"	6
7	195- 541	WASHER - plain 5/8"	4
8	C 14715	ARM - lift	2
9	C 14991	CHAIN - stay 19 links	1
10	113- 118	BOLT - 5/16 x 5/8" NC hex, zinc plated	2
11	131- 176	NUT - lock 5/16" NC hex	2
12	B 52118	PIN - klik	2
13	A 30338	PIN - klik	3
14	C 14725	ROD - lift L. H.	1
15	C 14717	PIN - clevis.....	1
	C 14712	LINK ASSEMBLY	1
16	C 14703	CENTER TUBE ASSEMBLY	1
17	C 14709	BALL END ASSEMBLY R. H. THREAD	1
18	C 14710	BALL END ASSEMBLY L. H. THREAD	1
19	138- 59	PIN - roll 1/8 x 7/8"	2
20	C 16128	PIN - clevis 5/8 x 3"	1

CYLINDER AND DRAWBAR MOUNTING

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

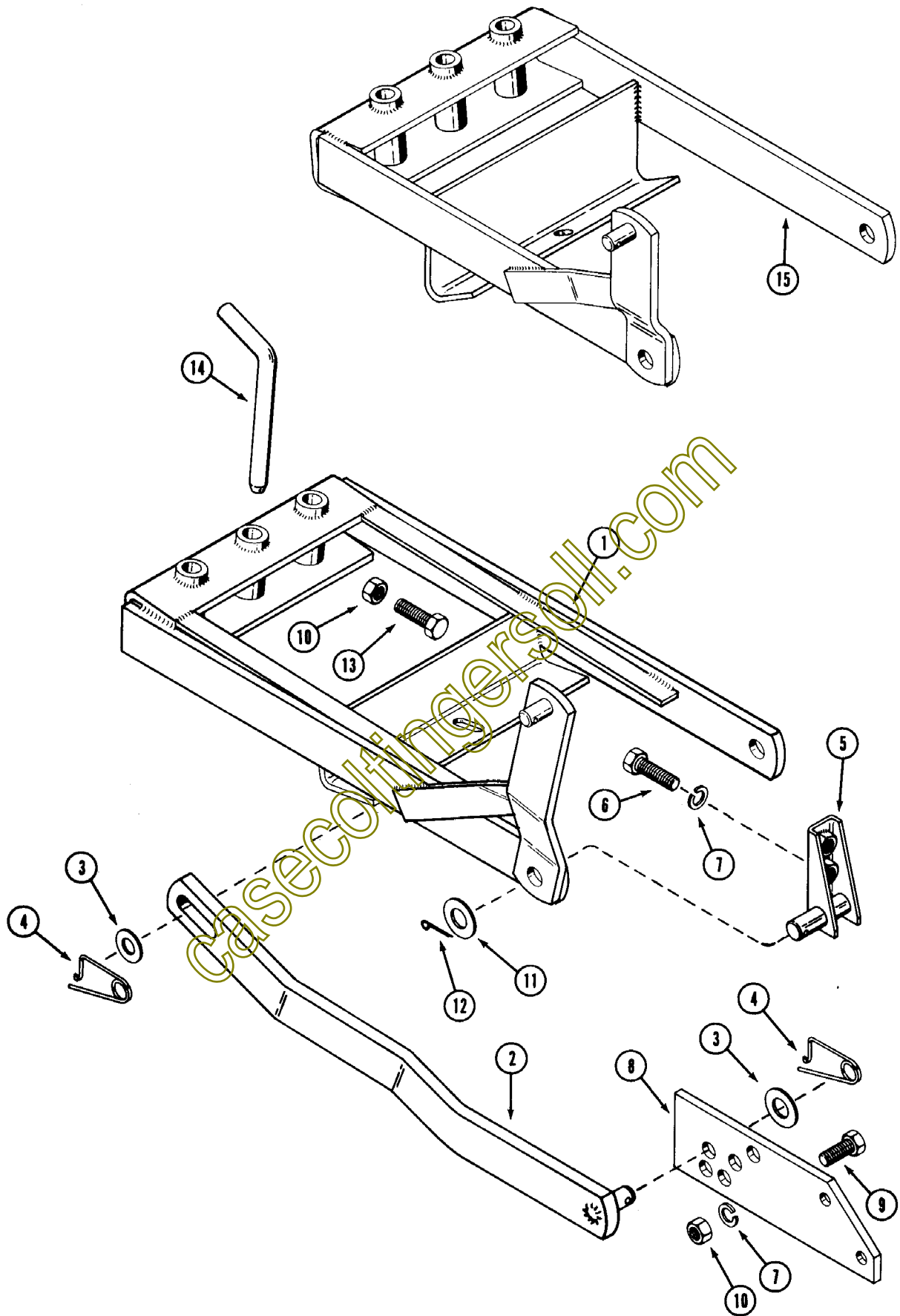


CASE 220, 222, 442 AND 444 COMPACT TRACTORS 75
MODEL H26 THREE POINT HITCH AND MODEL
F27 HITCH ADAPTER
HYDRAULIC CONNECTIONS AND COMPONENTS

REF.	PART NO.	DESCRIPTION	REQ'D
1	221- 1139	NIPPLE - 1/4 x 3"	1
2	221- 1375	ELBOW - 90°	1
3	C 17188	HOSE - hydraulic short	1
4	C 17189	HOSE - hydraulic long	1
5	218- 5291	FITTING - tee (Includes 218-5004 "O" ring)	2
6	C 15771	CYLINDER ASSEMBLY	1
7	C 15768	BODY - cylinder	1
8	C 15769	ROD AND PISTON ASSEMBLY	1
9	C 14692	FOOT - cylinder	1
10	NSS	SEAL - wiper	1
11	NSS	"O" RING	1
12	NSS	"O" RING	2
13	C 17268	KIT - seal (Consists of items 10, 11 and 12)	1

MODEL F27 HITCH ADAPTER

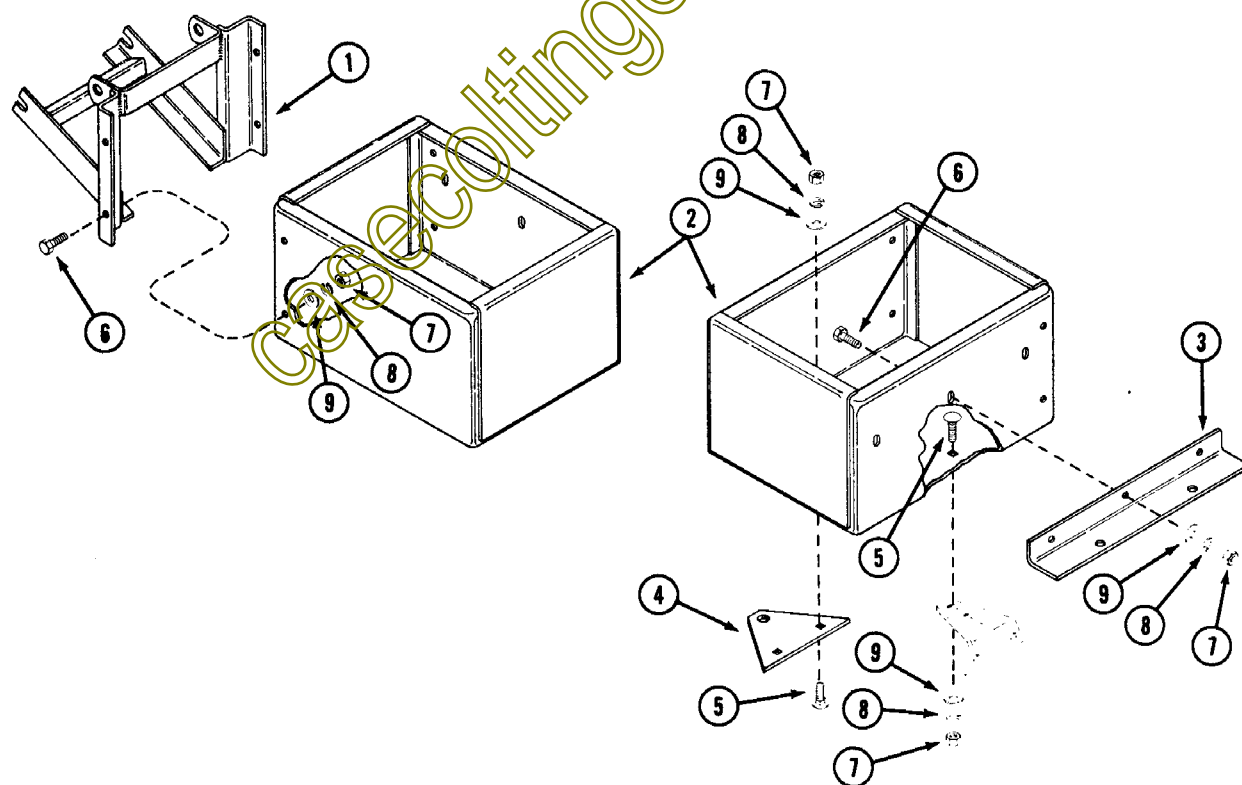
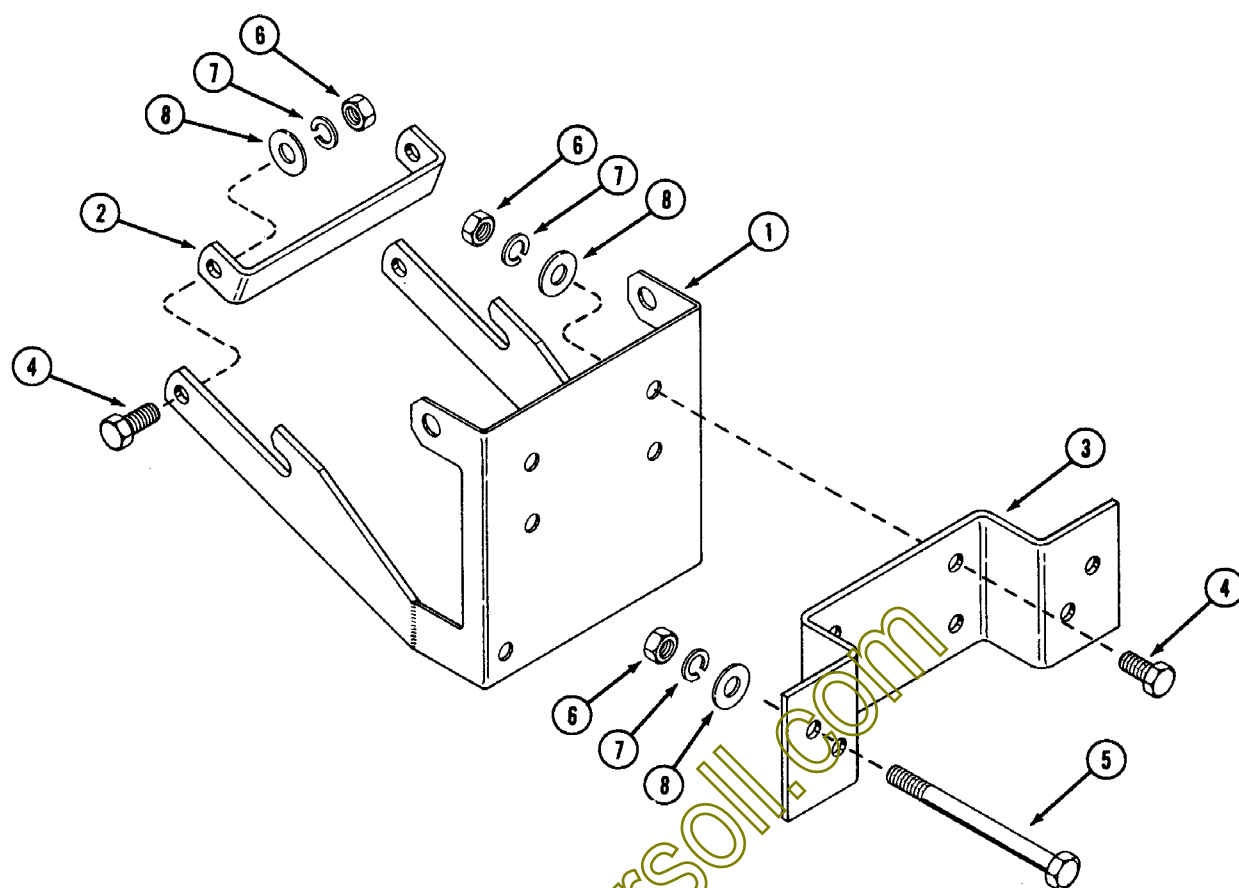
1	C 14872	BRACKET - hitch adapter	1
2	C 14568	PIN - drawbar	1
3	113- 425	BOLT - 1/2 x 3" NC hex, zinc plated	4



MODEL H22 AND H24 SLEEVE HITCH

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 14867	HITCH FRAME ASSEMBLY (442)	1
2	C 14457	ARM - lift	1
3	195- 541	WASHER - plain 21/32"	2
4	C 10898	PIN - safety	2
5	C 14459	BRACKET - hitch mounting R. H.	1
5	C 14460	BRACKET - hitch mounting L. H.	1
6	113- 417	BOLT - 1/2 x 1-1/4" NC hex, zinc plated	4
7	192- 23	LOCKWASHER - 1/2" zinc plated	6
8	C 17219	PLATE - lift lever	1
9	113- 417	BOLT - 1/2 x 1-1/4" NC hex, zinc plated	2
10	129- 105	NUT - 1/2" NC hex, zinc plated	4
11	195- 545	WASHER - plain 3/4" zinc plated	2
12	132- 306	PIN - cotter 3/16 x 1-3/4"	2
13	113- 421	BOLT - 1/2 x 2" NC hex, zinc plated	2
14	C 14568	PIN - drawbar	1
15	C 14866	HITCH FRAME ASSEMBLY (220 & 222)	1

casecoltingersoll.com

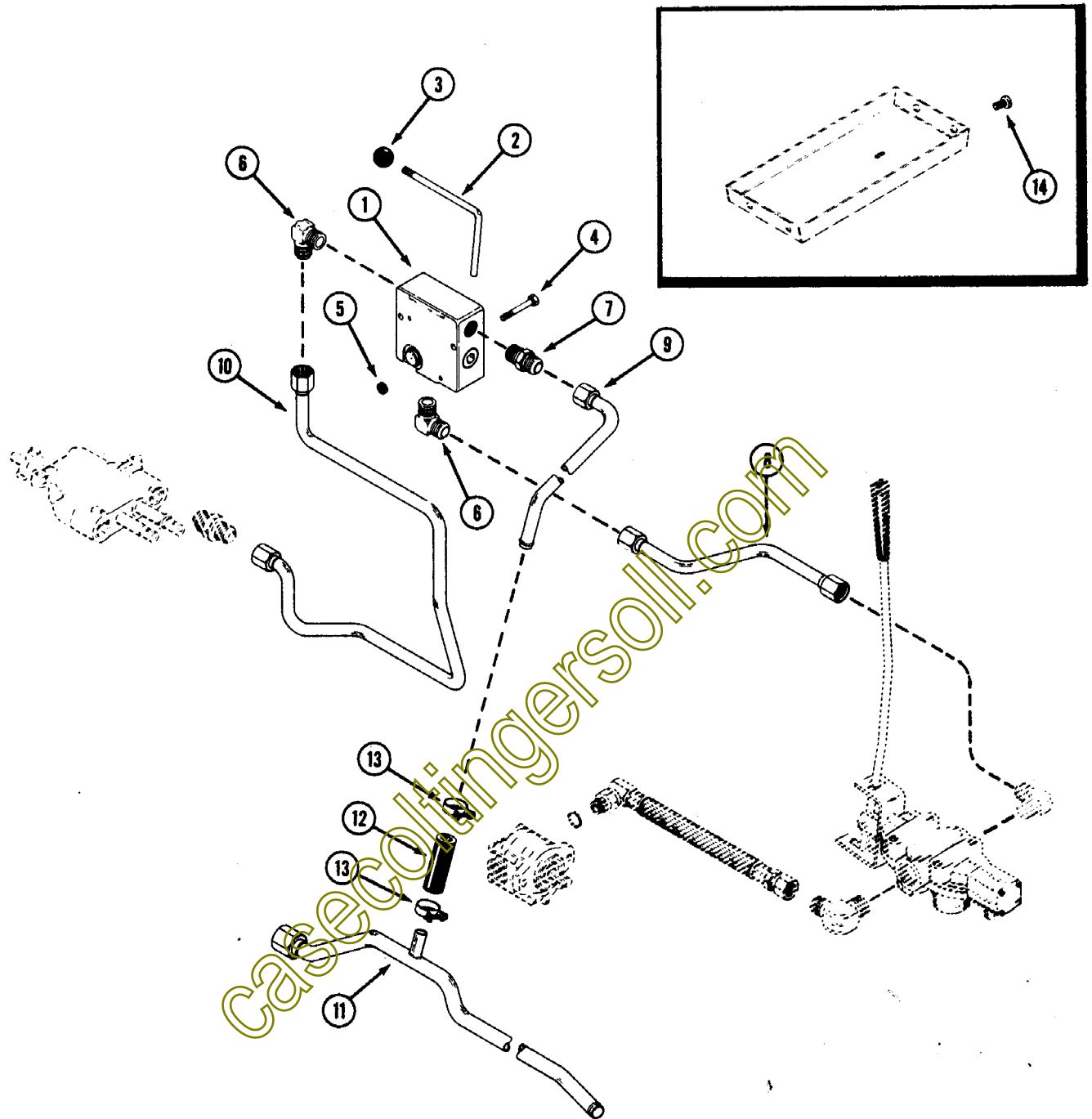


MODEL H18 FRONT END WEIGHT BRACKETS

REF. PART NO.	DESCRIPTION	REQ'D
1 C 16581	BRACKET - mounting	1
2 C 17161	BRACE - rear	1
3 C 17162	BRACKET - weight mounting	1
4 113- 417	BOLT - 1/2 x 1-1/4" NC hex, zinc plated	6
5 113- 443	BOLT - 1/2 x 6--1/2" NC hex	2
6 129- 105	NUT - 1/2" NC hex, zinc plated	8
7 192- 23	LOCKWASHER - 1/2"	8
8 195- 533	WASHER - 1/2" zinc plated	8

MODEL H13 WEIGHT BOX

REF. PART NO.	DESCRIPTION	REQ'D
1 C 17859	FRAME - weight box	1
2 C 17863	BOX - weight	1
3 C 17860	SUPPORT - weight box	1
4 C 17636	PLATE - hitch	1
5 111- 317	BOLT - 3/8 x 1" round head, square neck	3
6 113- 207	BOLT - 3/8 x 1" NC hex	4
7 129- 103	NUT - 3/8" NC hex	7
8 192- 21	LOCKWASHER - 3/8"	7
9 195- 525	WASHER - 3/8"	7

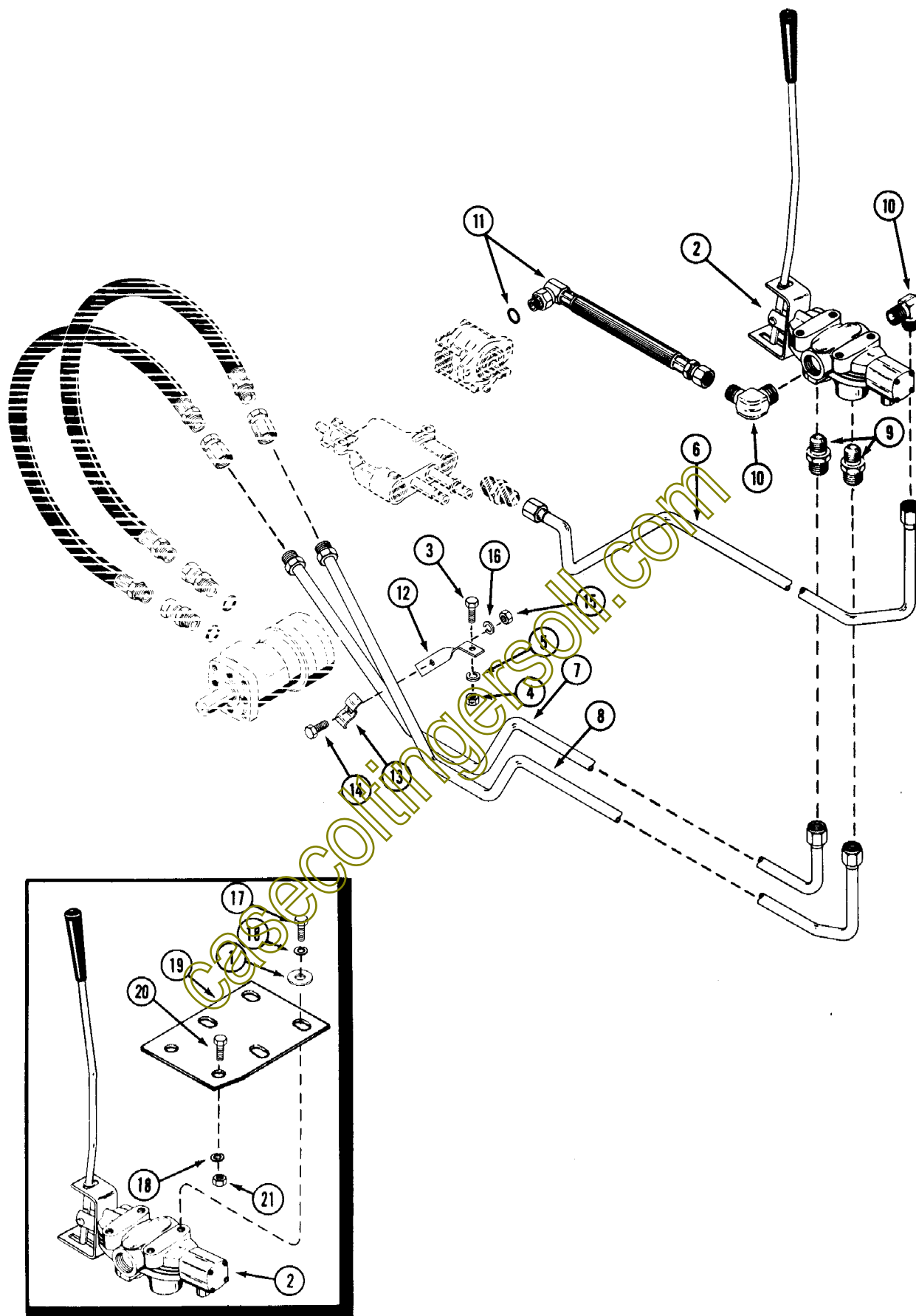


81

CASE 220, 222, 442 AND 444 COMPACT TRACTORS
MODEL H-19 FLOW CONTROL VALVE KIT

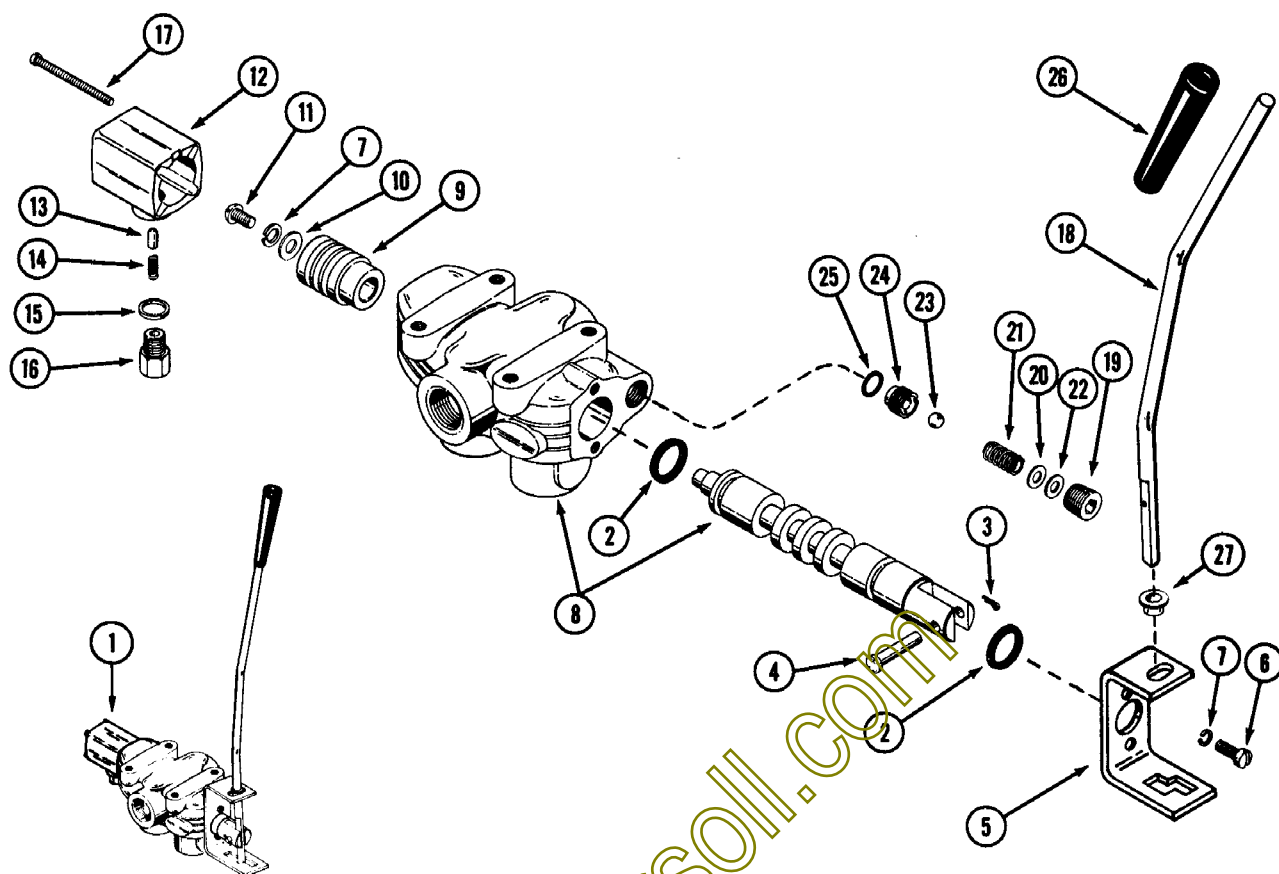
REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18722	VALVE - flow control	1
2	C 18720	LEVER - valve	1
3	A 61683	KNOB - lever	1
4	113- 12	BOLT - 1/4" x 2-1/2" NC hex	2
5	131- 1115	NUT - lock 1/4" NC hex	2
6	218- 485	FITTING - elbow 90° 1/2" NPT	2
7	218- 445	FITTING - straight 1/2" NPT	1
8	C 18672	TUBE - valve to PTO valve	1
9	C 18673	TUBE - bypass to return line	1
10	C 18674	TUBE - valve to tractor valve	1
11	C 18671	TUBE - heat exchanger	1
12	C 18721	HOSE - return	1
13	214- 6	CLAMP - hose	2
14	182- 515	SCREW - battery tray 5/16" x 5/8" pan head	2
	C 18719	DECAL - valve, "slow - fast"	1

casecoltingersoll.com



H17 HYDRAULIC PTO KIT

REF.	PART NO.	DESCRIPTION	REQ'D
1	195- 524	WASHER - 3/8"	4
2	C 18281	VALVE - PTO (repairs page 81D)	1
3	113- 102	BOLT - 5/16 x 3/4" NC hex	1
4	129- 102	NUT - lock 5/16" NC hex	1
5	192- 20	LOCKWASHER - 5/16"	1
6	C 17191	TUBE - tractor valve to PTO valve	1
7	C 17262	TUBE - PTO valve to motor hose	1
8	C 17263	TUBE - PTO valve to motor hose	1
9	218- 445	FITTING - 1/2" NPT x 1/2" NPT	2
10	218- 494	ELBOW - 90° 3/4 NPT x 5/8" tube	2
11	C 17409	HOSE - pump to PTO valve (includes 218-5006 "O" ring)	1
12	C 15387	BRACKET - tube support	1
13	C 15389	CLAMP - tube support	1
14	113- 3	BOLT - 1/4 x 3/4" NC hex	1
15	129- 101	NUT - 1/4" NC hex	1
16	192- 19	LOCKWASHER - 1/4"	1
17	113- 206	BOLT - 3/8 x 3/4" NC hex	4
18	192- 21	LOCKWASHER - 3/8"	8
19	C 14279	SUPPORT - PTO valve	1
20	113- 207	BOLT - 3/8 x 1" NC hex	2
21	129- 103	NUT - 3/8" NC hex	2



H17 HYDRAULIC PTO VALVE

REF.	PART NO.	DESCRIPTION	REQ'D
1	C 18281	VALVE - tiller 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 14651	BRACKET - handle	1
6	71- 410	SCREW - 1/4" x 5/8" NC fillister head	2
7	36628	LOCKWASHER - 1/4"	3
8	NSS	BODY AND SPOOL ASSEMBLY (Order C18281)	1
9	C 11895	ADAPTER - spool	1
10	95- 4	WASHER - plain 1/4"	1
11	75- 48	SCREW - 1/4" x 1/2" rd. hd. machine.	1
12	C 11893	BONNET - detent	1
13	C 11901	PIN - detent	1
14	C 11892	SPRING - detent	1
15	C 11886	WASHER - detent spring	1
16	C 11887	CAP - detent	1
17	169- 108	SCREW - bonnet 8-32 x 2-1/4" fillister head	4
18	C 14280	LEVER - valve	1
19	221- 1842	PLUG - relief 3/8" NPT	1
20	D 39712	SHIM - .010	UAR
21	T 40189	SPRING - relief	1
22	A 55894	SHIM - .020	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

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
	10923	63	17	A	43494	59	2	C	10836	65	3
	10927	63	12	A	43495	59	23	C	10898	77	4
	10934	63	3	A	44433	59	29	C	11529	25	18
	36627	81D	4	A	44433	61	29	C	11529	49	16
	36628	81D	7	A	50096	47	44	C	11545	25	19
	40035	11	20	A	55894	81D	22	C	11545	49	17
	40035	13	20	A	60273	53	1	C	11886	81D	15
	40035	15	20	A	60273	53B	1	C	11887	81D	16
	40035	17	28	A	61683	81	3	C	11891	81D	2
	40035	19	28	A	62079	25	15	C	11892	81D	14
	40035	21	28	A	70062	43	11	C	11893	81D	12
	49485	29	24	A	70090	5	5	C	11895	81D	9
	49885	31	18	A	70100	49	18	C	11901	81D	13
A	2409	63		A	70112	51	19	C	11906	39	5
A	7982	53	3	A	70185	43	8	C	12081	43	3
A	7982	53	4	A	70202	63	8	C	12093	51	2
A	7982	53B	3	A	72034	55	9	C	12093	71	42
A	7982	53B	4	A	72038	59	7	C	12102	39	13
A	10326	29	22	A	72038	61	7	C	12110	43	5
A	25447	59	20	A	72039	59	5	C	12111	43	6
A	25447	61	20	A	72039	61	5	C	12127	81D	27
A	25461	61	4	A	72040	59	6	C	12224	29	2
A	25546	59	36	A	72040	61	6	C	12370	43	7
A	25546	61	36	A	72041	61	23	C	12551	47	25
A	27001	11	23	A	72042	59	10	C	12552	47	26
A	27001	13	23	A	72042	61	10	C	12553	47	24
A	27001	15	23	A	72043	59	17	C	12554	47	16
A	27251	63	17	A	72043	61	17	C	12559	47	31
A	27365	17	39	A	72046	59	32	C	12560	47	32
A	27365	19	39	A	72046	61	32	C	12603	25	15
A	27365	21	39	A	72047	59	33	C	12684	63	24
A	27410	49	41	A	72047	61	33	C	12713	47	2
A	27410	55	16	A	72048	59	11	C	12723	47	10
A	27891	81D	25	A	72048	61	11	C	12725	47	21
A	30064	43	10	A	72073	25	1	C	12965	47	38
A	30095	49	38	A	72073	27		C	12975	39	9
A	30338	73	13	A	72077	27	3	C	12975	39	10
A	30881	39	10	A	72078	27	8	C	12975	41	20
A	30881	39	11	A	72079	27	7	C	12975	43	2
A	32190	49	38	A	72080	27	9	C	13047	49	36
A	34046	63	21	A	72083	27	15	C	13047	55	1
A	37247	51	1	A	72084	27	10	C	13106	39	7
A	37247	71	11	A	72092	27	2	C	13106	39	8
A	37247	81D	26	A	72099	27	5	C	13196	47	42
A	39888	63	11	A	72103	27	11	C	13197	47	43
A	40702	59	4	A	72104	61	2	C	13200	53	12
A	40702	61	40	B	50213	63		C	13200	53B	12
A	40736	59	21	B	50223	63	5	C	13211	47	9
A	40736	59	22	B	50255	63	2	C	13212	47	20
A	40736	61	21	B	50273	63	6	C	13241	47	5
A	40736	61	22	B	50293	63	14	C	13261	47	40
A	40855	63	4	B	52118	73	12	C	13266	47	8
A	41927	59	13	B	52144	47	15	C	13360	45	1
A	41927	61	13	B	53393	23	13	C	13385	47	6
A	41959	59	27	B	90370	5	2	C	13526	43	18
A	42127	59	25	C	10372	5	2	C	13605	39	5
A	43182	63	22	C	10487	31	16	C	13605	39	16
A	43356	59	31	C	10657	25	14	C	13716	39	6
A	43356	61	31	C	10678	25	3	C	13863	43	14

NUMERICAL INDEX

83

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
C	13866	43	16	C	14715	73	8	C	15692	67	12
C	13962	55	12	C	14717	73	15	C	15693	67	13
C	14060	65	1	C	14722	73	3	C	15694	67	14
C	14128	39	2	C	14724	73	4	C	15695	67	15
C	14131	39	3	C	14725	73	14	C	15696	67	16
C	14168	47	23	C	14728	37	22	C	15697	67	17
C	14187	43	17	C	14729	35	20	C	15703	31	13
C	14195	49	12	C	14730	35	20	C	15703	65	36
C	14199	47	17	C	14783	55	19	C	15704	31	14
C	14200	41	6	C	14784	55	14	C	15704	65	37
C	14201	41	7	C	14816	55	2	C	15718	33	3
C	14222	47	39	C	14817	55	7	C	15721	33	1
C	14223	47	37	C	14818	55	8	C	15726	49	6
C	14224	31	15	C	14819	55	11	C	15726	51	16
C	14240	31	1	C	14822	55		C	15730	51	3
C	14241	31	1	C	14827	57	4	C	15731	51	4
C	14245	49	14	C	14828	57	7	C	15732	51	5
C	14246	31	3	C	14829	57	8	C	15733	51	6
C	14279	81B	19	C	14830	57	9	C	15734	51	7
C	14280	81D	18	C	14831	57	10	C	15735	51	8
C	14301	55	20	C	14834	57	13	C	15737	51	10
C	14304	65	9	C	14836	57	15	C	15738	51	11
C	14305	65	8	C	14837	57	5	C	15739	51	12
C	14334	39	12	C	14838	57	16	C	15740	51	13
C	14334	59	34	C	14866	77	15	C	15743	33	14
C	14344	61	34	C	14867	77	1	C	15744	33	17
C	14399	17	26	C	14872	75	1	C	15768	75	7
C	14399	19	26	C	14906	17	44	C	15769	75	8
C	14399	21	26	C	14906	19	44	C	15771	75	6
C	14457	77	2	C	14906	21	44	C	16101	49	15
C	14459	77	5	C	14919	47	48	C	16128	73	20
C	14460	77	5	C	14945	43	8	C	16133	71	34
C	14500	35	14	C	14946	43	8	C	16134	71	45
C	14506	29	4	C	14953	17	38	C	16162	51	3
C	14525	45	14	C	14953	19	38	C	16163	71	10
C	14534	37	12	C	14954	21	38	C	16170	35	2
C	14537	63	9	C	14975	73	2	C	16195	35	1
C	14539	67	4	C	14976	73	3	C	16196	35	1
C	14553	63	6	C	14990	41	12	C	16200	41	4
C	14565	63	3	C	14991	73	9	C	16239	35	23
C	14566	63	4	C	15007	25	5	C	16261	49	40
C	14568	75	2	C	15036	51	19	C	16295	47	27
C	14568	77	14	C	15060	15	27	C	16339	47	22
C	14599	65	21	C	15096	41	16	C	16351	35	28
C	14619	49	44	C	15183	35	5	C	16362	35	12
C	14644	47	24	C	15184	35	6	C	16363	25	17
C	14651	81D	5	C	15335	49	1	C	16364	35	4
C	14655	49	35	C	15387	81B	12	C	16370	43	4
C	14655	57		C	15389	81B	13	C	16373	35	24
C	14656	47	19	C	15410	37	9	C	16379	43	7
C	14690	25	23	C	15481	49	7	C	16382	39	2
C	14690	31	4	C	15481	51	1	C	16383	39	3
C	14692	71	46	C	15515	33	7	C	16384	39	17
C	14692	75	9	C	15556	33	11	C	16393	37	17
C	14703	73	16	C	15557	33	8	C	16401	39	18
C	14709	73	17	C	15564	45	16	C	16404	37	2
C	14710	73	18	C	15690	67	10	C	16408	37	1
C	14712	73		C	15691	67	11	C	16412	51	6

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
C	16412	71	13	C	17263	81B	8	C	18060	35	1
C	16429	37	7	C	17268	71		C	18092	57	15
C	16430	37	6	C	17268	75	13	C	18095	11	25
C	16444	37	15	C	17275	63	15	C	18095	13	25
C	16445	37	15	C	17281	45	12	C	18095	15	25
C	16446	37	16	C	17298	49	6	C	18097	11	24
C	16447	37	16	C	17298	51	16	C	18097	13	24
C	16448	29	3	C	17302	33		C	18097	15	24
C	16449	29	1	C	17314	71	1	C	18097	17	34
C	16464	33	15	C	17319	45	1	C	18097	19	34
C	16516	57	1	C	17354	49	34	C	18097	21	34
C	16581	79	1	C	17409	81B	11	C	18097	23	6
C	16616	33	19	C	17432	53	6	C	18098	29	14
C	16644	41	5	C	17432	53	7	C	18099	29	30
C	16682	31	4	C	17433	53	7	C	18101	11	18
C	16683	51	8	C	17433	53	8	C	18101	13	18
C	16683	71	14	C	17433	53B	8	C	18110	57	10
C	16686	49	22	C	17435	53	8	C	18140	63	21
C	16687	49	24	C	17435	53	9	C	18144	45	18
C	16689	49	21	C	17435	53B	9	C	18144	71	17
C	16690	49	23	C	17438	53	17	C	18147	43	6
C	16697	49	35	C	17438	53B	17	C	18150	35	17
C	16697	57		C	17439	53	11	C	18152	43	1
C	16699	47	11	C	17439	53B	11	C	18153	35	11
C	16700	47	13	C	17440	53	14	C	18197	63	12
C	16741	45	3	C	17440	53B	14	C	18204	31	12
C	16741	71	3	C	17441	53	13	C	18204	65	35
C	16744	47	3	C	17443	53	18	C	18241	33	
C	16750	45	5	C	17443	53B	18	C	18242	33	17
C	16750	71	5	C	17444	53	19	C	18243	33	14
C	16751	45	4	C	17444	53B	19	C	18244	33	15
C	16751	71	4	C	17445	53	15	C	18281	81B	2
C	16786	33	13	C	17536	71	25	C	18281	81D	1
C	16793	49	46	C	17546	65	34	C	18296	25	1
C	16794	49	45	C	17574	25	16	C	18318	71	33
C	16796	25	20	C	17575	71	20	C	18384	51	9
C	16852	63	8	C	17612	51	4	C	18417	81D	24
C	16945	41	1	C	17612	71	16	C	18671	81	11
C	17066	37	20	C	17628	71	24	C	18672	81	8
C	17067	45	13	C	17636	79	4	C	18673	81	9
C	17152	37	14	C	17732	71	36	C	18674	81	10
C	17161	79	2	C	17734	71	29	C	18719	81	
C	17162	79	3	C	17763	63	26	C	18720	81	2
C	17174	45	10	C	17808	63		C	18721	81	12
C	17186	63	10	C	17811	55	24	C	18722	81	1
C	17187	63	2	C	17859	79	1	C	18742	53B	13
C	17188	75	3	C	17860	79	3	C	18742	53B	28
C	17189	75	4	C	17863	79	2	C	18788	65	27
C	17191	81B	6	C	17898	49	25	C	18812	39	1
C	17216	37	19	C	17921	65	2	C	18813	39	1
C	17219	77	8	C	18005	63	1	C	18814	17	43
C	17224	71	28	C	18014	41	2	C	18814	19	43
C	17225	71	29	C	18017	41	21	C	18814	21	43
C	17236	49	8	C	18019	71	27	C	18850	53B	13
C	17249	45	6	C	18039	5	1	C	18851	53B	
C	17249	71	6	C	18052	31	1	C	18890	35	17
C	17250	45	7	C	18053	31	3	C	19025	53B	12
C	17250	71	7	C	18059	35	1	C	19025	53B	26
C	17262	81B	7	C	18060	35		C	19037	57	

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
C	19055	31	2	C	24318	37	8	KO	235007-S	9	17
C	19055	63	20	C	24319	37	8	KO	235007-S	17	10
C	19104	71	35	C	24408	25	1	KO	235007-S	19	10
C	19212	57	17	C	24433	43	2	KO	235007-S	21	10
C	19472	33	22	C	24435	43	1	KO	235008	7	15
C	19740	73	1	C	24438	43	9	KO	235008	7	38
C	21495	53B		C	24611	7	25	KO	235010	7	19
C	21496	53B		C	24611	7	48	KO	235010	7	42
C	21504	53B		C	24611	9	25	KO	235011	7	18
C	21505	53B	15	C	24729	25	11	KO	235011	7	41
C	21506	53B	11	C	24731	57	12	KO	235011	9	18
C	21506	53B	22	C	24851	25	8	KO	235025	17	16
C	21507	53B	6	C	24851	25	12	KO	235025	19	16
C	21507	53B	7	C	24884	7	21	KO	235025	21	16
C	21508	53B	8	C	24884	7	44	KO	235025	23	3
C	21508	53B	24	C	24884	9	21	KO	235026	17	17
C	21509	53B	7	C	25054	15	22	KO	235026	19	17
C	21509	53B	23	D	31945	47	4	KO	235026	21	17
C	21510	53B	9	D	39712	81D	20	KO	235047	7	9
C	21510	53B	25	D	72853	57	8	KO	235047	9	9
C	21511	53B		F	53109	51	2	KO	235048	7	6
C	21518	51	5	H	43034	29	16	KO	235048	9	6
C	21518	71	15	KO	200380	27	1	KO	235048	23	11
C	21596	33	11	KO	200380	27	6	KO	235053	7	27
C	21815	21	31	KO	200383	27	4	KO	235053	7	50
C	21993	63	5	KO	220174	23	7	KO	235053	9	28
C	22571	63	11	KO	220174	65	6	KO	235054	25	14
C	22571	65		KO	220297	65	2	KO	235057	23	14
C	22573	65	10	KO	230011	7	20	KO	235070	17	29
C	22637	47	14	KO	230011	7	43	KO	235070	19	29
C	22638	47	12	KO	230020	9	20	KO	235070	21	29
C	22671	33	9	KO	230070	7	16	KO	235070	23	5
C	22700	17	31	KO	230170	7	39	KO	235084	29	19
C	22700	19	31	KO	230170	9	16	KO	235085	29	18
C	22700	21	31	KO	230170	17	9	KO	235086	29	17
C	22738	23	9	KO	230170	19	9	KO	235117	7	8
C	22738	25	13	KO	230170	21	9	KO	235117	9	8
C	22738	27	2	KO	230265	7	29	KO	235118	7	7
C	22754	15	28	KO	230265	7	52	KO	235118	9	7
C	22754	15	29	KO	230265	9	29	KO	235125-S	17	11
C	22754	15	32	KO	230265	17	9A	KO	235125-S	19	11
C	23135	15	18	KO	230265	19	9A	KO	235125-S	29	29
C	23245	33	10	KO	230265	21	11	KO	235168	9	19
C	23506	33	18	KO	230675	27	1	KO	235175	17	2
C	23740	33	6	KO	230722	63	19	KO	235175	19	2
C	23839	63	25	KO	231032	7	5	KO	235175	21	2
C	23839	63	27	KO	231032	9	5	KO	235207	25	6
C	23860	23	8	KO	231032	23	16	KO	235277	29	23
C	23860	25	2	KO	231281	63	13	KO	235287	11	2
C	23870	65	12	KO	231355	29	31	KO	235288	11	16
C	23902	25	7	KO	232535	63	14	KO	235289	11	16
C	24098	41	18	KO	232535	65	5	KO	235290	11	16
C	24135	65	10	KO	235003	11	11	KO	235353	17	20
C	24137	35	25	KO	235003	13	11	KO	235353	19	20
C	24138	17	8	KO	235003	15	11	KO	235353	21	20
C	24141	19	7	KO	235004	11	7	KO	235353	23	4
C	24192	47		KO	235007-S	7	17	KO	235368	25	5
C	24301	63	16	KO	235007-S	7	40	KO	235476	29	25

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.
KO 235496	29	12	KO 275066	9	27	R 16147	61	12
KO 235572	11	8	KO 275067	7	26	R 16148	59	16
KO 235573	11	17	KO 275067	7	49	R 16148	61	16
KO 235582	9	15	KO 275067	9	27	R 16161	59	9
KO 235603	29	33	KO 275143	7	4	R 16161	61	9
KO 235631	7	10	KO 275143	9	4	R 16170	59	30
KO 235631	9	10	KO 275144	7	11	R 16170	61	30
KO 235748	17	42	KO 275144	9	11	R 16287	11	19
KO 235748	19	42	KO 275144	23	12	R 16287	13	19
KO 235748	21	42	KO 275182	65	13	R 16287	15	19
KO 235757	17	29	KO 275220	7	3	R 16287	17	27
KO 235757	19	29	KO 275220	9	3	R 16287	19	27
KO 235757	21	29	KO 275231	27	5	R 16287	21	27
KO 235757	23	5	KO 275341	5	3	R 16287	23	2
KO 235811	13	7	KO 275341	23	10	R 17820	47	33
KO 235811	15	7	KO 275341	25	11	T 36441	47	18
KO 235818	17	35	KO 285373	27	3	T 40189	81D	21
KO 235818	19	35	KO 275690	29	15	V 34346	7	28
KO 235818	21	35	KOA 235100	5	1	V 34346	7	51
KO 235826	7	14	KOA 235139	11	10	V 34346	9	26
KO 235826	7	37	KOA 235256S	29	26	V 34418	17	12
KO 235838	9	14	KOA 235569	11	15	V 34418	19	12
KO 235868	13	17	KOA 235571	11	15	V 34418	29	27
KO 235868	15	17	KOA 235611	11	6	V 34433	63	18
KO 235889	13	2	KOA 235616	11	15	W 5063-S	11	21
KO 235890	13	16	KOA 235743-S	29	28	W 5063-S	13	21
KO 235891	13	16	KOA 235827	13	6	W 5063-S	15	21
KO 235892	13	16	KOA 235865	13	15	W 5063-S	49	5
KO 235955	25	4	KOA 235866	13	15			
KO 236387	27	3	KOA 235867	13	15			
KO 236438	19	4	KOA 236507	15	30			
KO 236506	15	31	KOA 236919	29	34			
KO 236546	17	4	KOA 236960	21	1			
KO 236559	15	33	KOA 237033S	21	8			
KO 236611	11	13	KOA 237127S	19	8	15- 420	29	9
KO 236611	13	13	KOA 237344	13	10	25- 104	7	1
KO 236611	15	13	KOA 237344	15	10	25- 104	9	1
KO 236763	15	2	KOA 237401	15	6	25- 104	29	11
KO 236764	15	16	KOA 237403	15	15	26- 524	37	11
KO 236765	15	16	KOA 237404	15	15	28- 662	57	16
KO 236766	15	16	KOA 237405	15	15	28- 680	47	34
KO 237064	21	6	KOA 237559	29	32	41- 18	17	13
KO 237421	5	9	KOA 237653	29	8	41- 18	19	13
KO 237489	27	3	KOB 235711	11	22	41- 18	21	13
KO 237658	17	5	KOB 235949	13	22	61- 510	5	3
KO 237658	19	5	KOC 236303	17	7	61- 616	17	25
KO 237658	21	5	KOC 237182	21	7	61- 616	19	25
KO 237658	23	15	KOD 235327	7	22	61- 616	21	25
KO 237808	17	23	KOD 235327	7	45	71- 410	25	9
KO 237808	19	23	KOD 235327	9	22	71- 410	81D	6
KO 237808	21	23	O 2815N	33	16	74- 610	61	25
KO 237830	21	4	R 15077	59	19	75- 48	81D	11
KO 270889	17	3	R 15077	61	19	83- 55	51	20
KO 270889	19	3	R 15087	61	3	92- 4	7	2
KO 270889	21	3	R 15090	59	8	92- 4	9	2
KO 271077	17	1	R 15090	61	8	92- 6	11	12
KO 271077	19	1	R 15106	59	1	92- 6	13	12
KO 275066	7	26	R 15106	61	1	92- 6	15	12
KO 275066	7	49	R 16147	59	12	92- 8	69	4

HARDWARE CODE NUMBERS

15-	420	29	9
25-	104	7	1
25-	104	9	1
25-	104	29	11
26-	524	37	11
28-	662	57	16
28-	680	47	34
41-	18	17	13
41-	18	19	13
41-	18	21	13
61-	510	5	3
61-	616	17	25
61-	616	19	25
61-	616	21	25
71-	410	25	9
71-	410	81D	6
74-	610	61	25
75-	48	81D	11
83-	55	51	20
92-	4	7	2
92-	4	9	2
92-	6	11	12
92-	6	13	12
92-	6	15	12
92-	8	69	4

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
95-	4	81D	10	114-	200	49	3	131-	580	19	37
111-	1	29	5	121-	106	35	3	131-	580	21	37
111-	1	35	7	121-	106	37	13	131-	629	65	5
111-	108	65	16	126-	16	41	17	131-	1112	41	8
111-	109	35	15	126-	111	51	15	131-	1115	81	5
111-	131	65	31	126-	111	59	24	132-	5	81D	3
111-	202	65	15	126-	111	61	24	132-	26	53B	16
111-	317	79	5	126-	128	47	41	132-	26	53B	29
111-	530	69	2	129-	17	29	7	132-	46	31	11
111-	531	69	3	129-	17	35	9	132-	46	35	13
111-	532	69	2	129-	18	59	14	132-	48	31	5
113-	1	47	46	129-	18	61	14	132-	77	39	8
113-	1	65	25	129-	27	65	22	132-	77	39	9
113-	2	25	12	129-	37	29	20	132-	91	73	6
113-	3	81B	14	129-	101	65	17	132-	306	77	12
113-	6	17	19	129-	101	65	33	132-	310	43	10
113-	6	19	19	129-	101	81B	15	132-	310	73	4
113-	6	21	19	129-	102	35	27	132-	321	43	13
113-	6	25	3	129-	102	51	7	132-	336	43	3
113-	12	81	4	129-	102	65	14	132-	348	71	44
113-	102	65	18	129-	102	71	12	132-	349	71	19
113-	102	81B	3	129-	102	81B	4	132-	361	71	40
113-	103	25	7	129-	103	63	20	138-	59	73	19
113-	103	41	11	129-	103	79	7	138-	96	43	15
113-	103	65	11	129-	103	81B	21	138-	99	39	4
113-	111	51	14	129-	105	65	15	138-	134	55	17
113-	113	35	18	129-	105	69	4	138-	309	73	5
113-	118	31	5	129-	105	69	5	138-	319	35	26
113-	118	73	10	129-	105	77	10	138-	319	47	47
113-	206	17	14	129-	105	79	6	138-	2054	45	15
113-	206	19	14	129-	122	65	20	141-	4	43	12
113-	206	21	14	129-	122	53B	14	164-	40	33	4
113-	206	41	13	129-	122	53B	27	164-	42	45	11
113-	206	65	28	129-	125	39	15	166-	24	49	42
113-	206	81B	17	129-	125	39	15	166-	86	49	37
113-	207	17	33	129-	325	39	16	166-	524	55	3
113-	207	19	33	129-	325	39	17	166-	535	55	18
113-	207	21	33	129-	504	25	22	169-	95	29	35
113-	207	31	6	129-	504	49	20	169-	108	81D	17
113-	207	33	20	129-	531	53	9	169-	114	53	20
113-	207	49	2	129-	531	53	10	169-	114	53B	20
113-	207	71	21	129-	531	53B	10	169-	131	65	24
113-	207	79	6	131-	71	35	16	171-	247	49	30
113-	207	81B	20	131-	164	43	5	173-	73	63	7
113-	209	63	18	131-	176	51	9	173-	210	65	3
113-	221	45	8	131-	176	71	26	173-	215	25	21
113-	221	71	8	131-	176	73	11	173-	215	49	19
113-	417	73	5	131-	178	31	8	173-	221	21	21
113-	417	77	6	131-	178	37	21	173-	224	65	8
113-	417	77	9	131-	178	45	9	173-	237	61	27
113-	417	79	4	131-	178	71	9	175-	436	25	10
113-	421	77	13	131-	178	71	22	177-	94	5	7
113-	424	35	22	131-	351	49	31	182-	515	81	14
113-	424	37	4	131-	356	41	3	187-	408	65	7
113-	424	45	3	131-	366	47	35	187-	485	65	4
113-	425	75	3	131-	580	11	26	187-	1006	71	43
113-	427	37	3	131-	580	13	26	187-	1046	39	11
113-	441	37	3	131-	580	15	26	187-	1046	39	12
113-	443	79	5	131-	580	17	37	187-	1047	65	6

NUMERICAL INDEX

PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.	PART NO.	PAGE NO.	REF. NO.			
187-	1251	31	2	193-	76	33	5	219-	403	43	4
192-	17	59	15	193-	99	21	22	219-	404	39	6
192-	17	61	15	195-	104	31	9	219-	404	39	7
192-	18	29	6	195-	104	43	9	219-	404	41	19
192-	18	29	21	195-	104	71	23	219-	404	45	2
192-	18	35	8	195-	126	31	7	219-	404	71	2
192-	18	61	28	195-	512	5	8	219-	405	73	2
192-	18	65	4	195-	512	35	10	221-	4	47	7
192-	18	65	23	195-	515	25	8	221-	841	53	10
192-	19	17	18	195-	515	29	10	221-	841	53	21
192-	19	19	18	195-	520	65	13	221-	841	53B	10
192-	19	21	18	195-	521	45	17	221-	841	53B	21
192-	19	25	2	195-	521	53B	15	221-	843	53	11
192-	19	25	9	195-	521	53B	30	221-	1131	71	31
192-	19	25	13	195-	524	81B	1	221-	1139	75	1
192-	19	29	13	195-	525	31	10	221-	1375	71	30
192-	19	47	45	195-	525	79	9	221-	1375	75	2
192-	19	65	26	195-	533	71	18	221-	1842	81D	19
192-	19	81B	16	195-	533	79	8	223-	20	63	22
192-	20	25	6	195-	541	17	36	321-	18	67	3
192-	20	35	19	195-	541	19	36	321-	1571	67	1
192-	20	41	10	195-	541	21	36	321-	1784	67	9
192-	20	59	3	195-	541	73	7	321-	1785	67	6
192-	20	65	12	195-	541	77	3	321-	1786	67	8
192-	20	81B	5	195-	545	77	11	321-	1788	67	5
192-	21	17	15	195-	2021	97	10	321-	1789	67	7
192-	21	17	24	195-	2021	41	9	321-	2110	67	18
192-	21	17	32	195-	2029	37	18	321-	2111	67	2
192-	21	19	15	195-	2036	33	16	353-	441	31	17
192-	21	19	24	195-	2069	41	15				
192-	21	19	32	205-	27	17	30				
192-	21	21	15	205-	27	19	30				
192-	21	21	24	211-	7	53	16				
192-	21	21	32	211-	7	53B	16				
192-	21	33	21	211-	9	53	5				
192-	21	41	14	211-	9	53	6				
192-	21	49	4	211-	9	53B	5				
192-	21	63	19	211-	9	53B	6				
192-	21	65	29	211-	11	81D	23				
192-	21	79	8	213-	4	43	11				
192-	21	81B	18	214-	6	81	13				
192-	23	35	21	214-	8	49	13				
192-	23	37	5	214-	251	25	4				
192-	23	39	14	218-	445	81	7				
192-	23	39	14	218-	445	81B	9				
192-	23	45	2	218-	485	81	6				
192-	23	63	16	218-	494	81B	10				
192-	23	69	3	218-	5007	49	9				
192-	23	77	7	218-	5007	49	11				
192-	23	79	7	218-	5007	49	27				
192-	26	59	35	218-	5007	49	33				
192-	26	61	35	218-	5056	71	32				
193-	4	63	8	218-	5062	49	10				
193-	5	65	9	218-	5062	49	32				
193-	29	49	43	218-	5107	49	26				
193-	57	65	32	218-	5291	75	5				
193-	60	25	10	219-	17	39	20				
193-	70	65	19	219-	17	39	20				

casecoltingersoll.com

Printed in U.S.A.