

FMC

FMC Bolens

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

FMC

Tractor

16HP

Model 1658 (H16XL)

Serial Numbers 0100101
thru 0199999

Parts List

BOLENS 16 HP TRACTOR

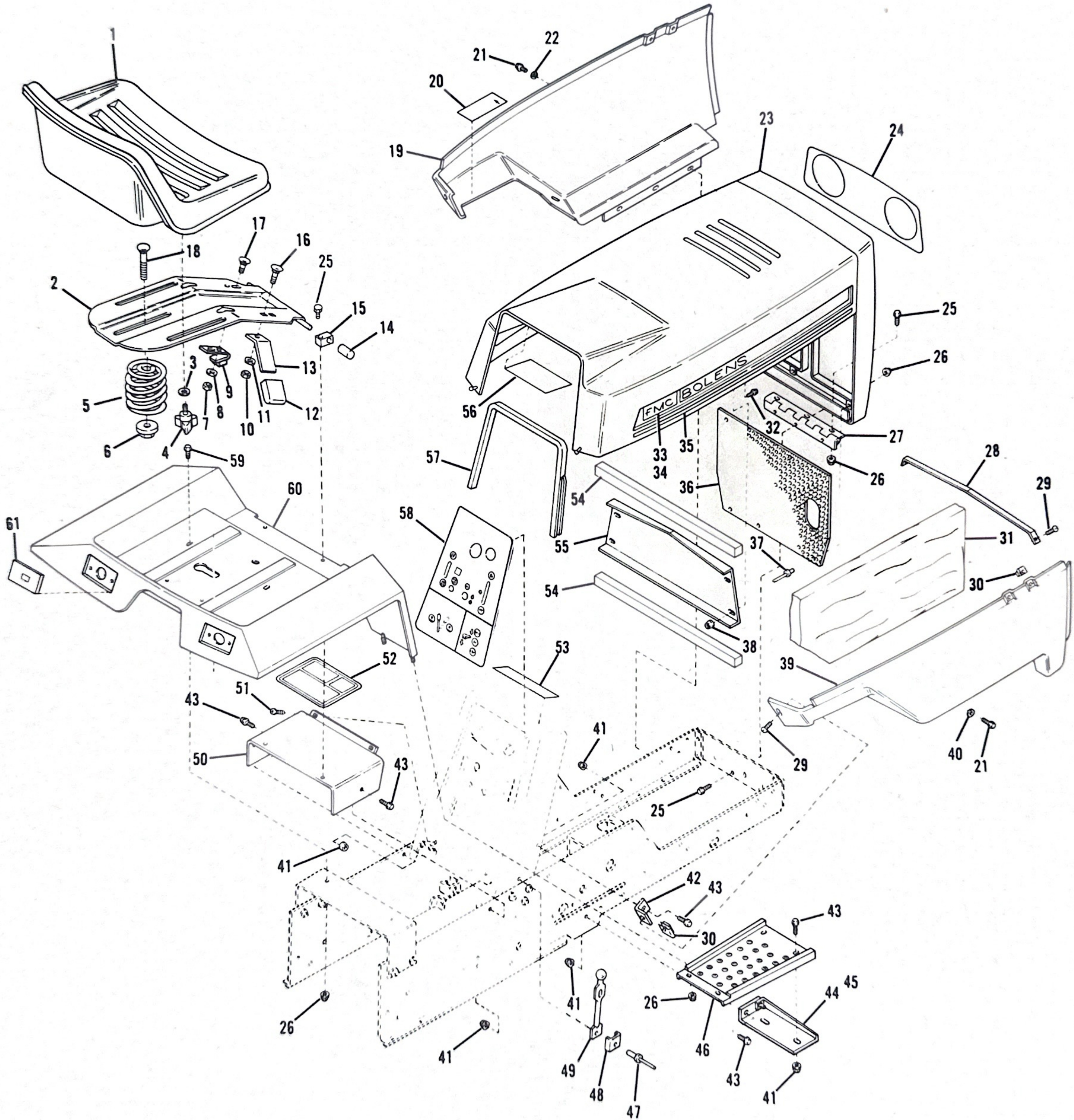


Figure 1. TRIM ASSEMBLY
2

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.	REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	1733027	Seat	1	33	1734870	L.H. Identification Decal . .	1
2	1734115	Seat Support	1	34	1734871	R.H. Identification Decal . .	1
3 •	1100256	Flat Washer 3/8.	2	35	1730137	Stripe Decal	1
4	1734269	Adjusting Knob.	2	36	1731836	Grille Screen.	1
5	1733960	Spring.	1	37 •	1727379	Pop Rivet 3/16 x 3/8.	6
6	1735125	Nut & Washer.	1	38 •	1186389	Flange Locknut 1/4-20.	4
7 •	1186229	Nut 1/4-20.	1	39	1728073	Side Panel R.H.	1
8 •	1100241	Flat Washer 1/4.	1	40 •	1100254	Flat Washer 1/4.	2
9	1734515	Actuator Bracket.	1	41 •	1186393	Flange Locknut 3/8-16.	12
10 •	1110107	Locknut 5/16-18.	1	42	1727493	Support Bracket	2
11	1705905	Bowed Washer	1	43 •	1186345	Flange Lock Screw 3/8-16 x 3/4	12
12	1735054	Handle Grip	1	44	1726616	Foot Rest Support R.H.	1
13	1734268	Seat Stand Support	1	45	1726617	Foot Rest Support L.H.	1
14	1734898	Plastic Grip	2	46	1733702	Foot Rest Ass'y.	2
15	1714782	Swivel Block.	2	47 •	1728772	Pop Rivet 3/16 x 1/2	2
16 •	1186098	Carriage Bolt 5/16-18 x 3/4.	1	48	1727126	Clip	2
17 •	1186067	Carriage Bolt 1/4-20 x 1/2.	1	49	1727127	Latch	2
18 •	1186130	Carriage Bolt 3/8-16 x 1-1/4.	1	50	1734524	Tunnel Ass'y.	1
19	1731830	Side Panel, L.H.	1	51 •	1185872	Rd Hd Phill. Screw 5/16-18 x 5/8.	2
20	1734812	Decal, Warning	1	52	1734813	Instruction Decal.	1
21 •	1724492	Flange, Lock Screw 1/4-20 x 1/2	5	53	1734816	Instruction Decal.	1
22 •	1107381	Flat Washer	3	54	1732137	Sealing Strip.	2
23	1734341	Hood & Grille.	1	55	1731949	Heat Shield	1
24	1730136	Grille Decal	1	56	1733889	Service Instruction Decal . .	1
25 •	1186331	Flange Lock Screw 5/16-18 x 1	8	57	1726932	Trim.	1
26 •	1186391	Flange Locknut 5/16-18.	12	58	1734828	Instrument Panel Decal.	1
27	1731966	Hood Hinge	1	59 •	1186329	Flange Lock Screw 5/16-18 x 3/4.	2
28	1731337	Panel Support Bracket	1	60	1734691	Fender Ass'y.	1
29 •	1110685	Rd Hd Screw 1/4-20 x 5/8	4	61	1725615	Reflector.	2
30	1185456	Speed Nut	4				
31	1732162	Acoustical Foam.	2				
32 •	1186307	Flange Lock Screw 1/4-20 x 3/8	4				

• Common Hardware - Purchase Locally (Grade 5 where applicable)

BOLENS 16 HP TRACTOR

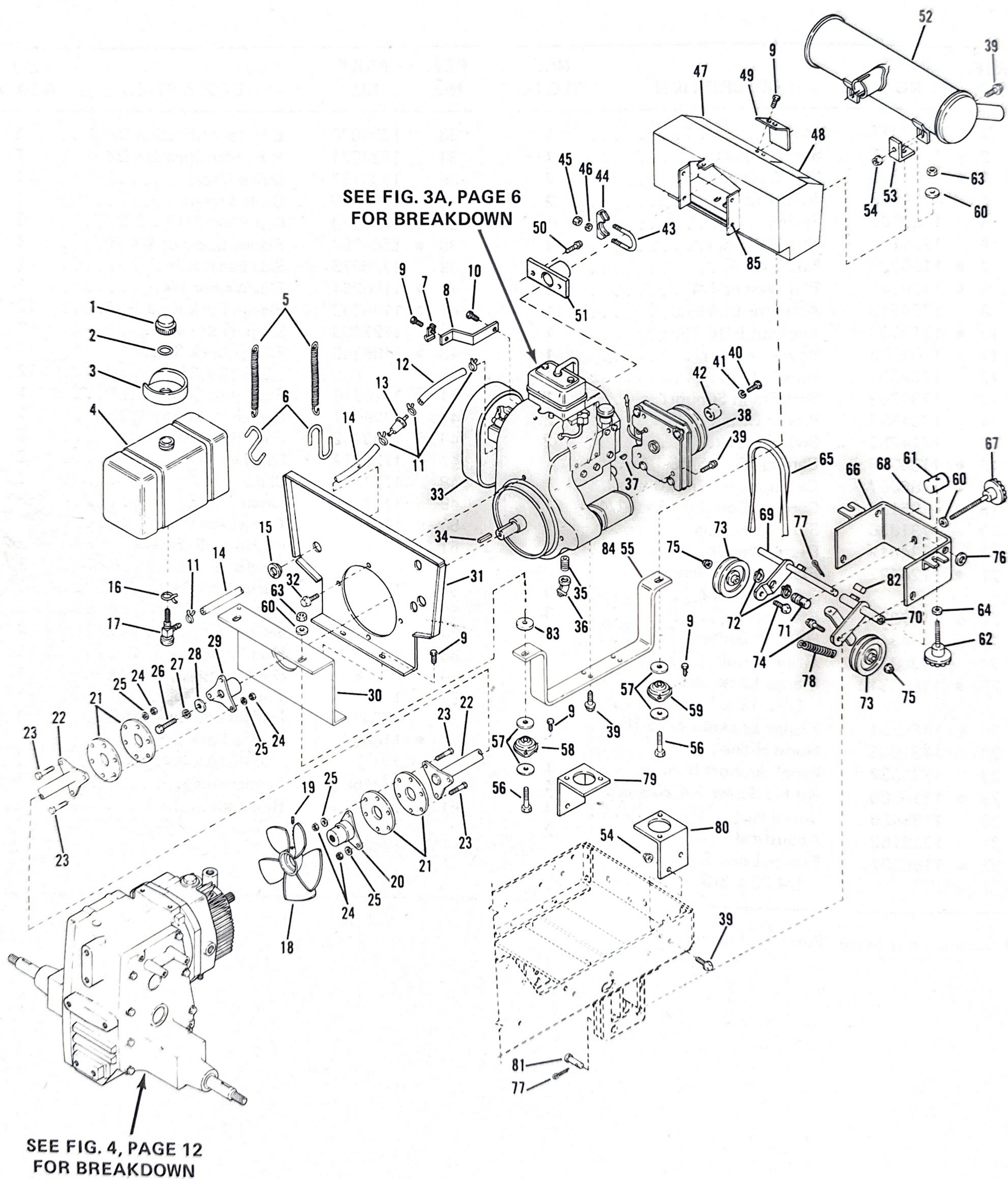


Figure 2. ENGINE AND DRIVE ASSEMBLY

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.	REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	1723473	Gas Cap.	1	43	1723131	Bolt "U" 5/16-24	1
2	1185988	O-Ring	1	44	1723130	Clamp, Saddle.	1
3	1727487	Shield, Overflow	1	45	• 1186211	Nut, Hex. 5/16-24	2
4	1735064	Tank, Fuel (Includes Ref. No. 1).	1	46	• 1100242	Washer, Lock 5/16.	2
5	1724827	Spring, Extension	4	47	1734794	Shield Assembly, Heat	1
6	1733890	Hook, "S"	4	48	1734710	Decal, Hot	1
7	1715127	Clamp, Housing.	1	49	1731932	Deflector, Exhaust Heat	1
8	1729499	Bracket, Choke	1	50	• 1723773	Ferry Hd. Screw 5/16-18 x 7/8.	2
9	• 1185712	Screw, Hex. Hd. Thd. Cutting No. 10-24 x 1/2.	13	51	1734782	Exhaust Flange	1
10	• 1111599	Screw, Hex. Hd. Cap 1/4-20 x 5/8	1	52	1733816	Muffler Assembly	1
11	• 1718185	Clamp, Hose.	4	53	1732373	Bracket, Muffler	2
12	1725124	Line, Fuel	1	54	• 1186393	Nut, Whiz Lock 3/8-16.	8
13	1731399	Filter, Fuel.	1	55	1726370	Mount, Engine L.H.	1
14	1726447	Line, Fuel	1	56	• 1100062	Screw, Hex. Hd. Cap 3/8-16 x 2-1/2	4
15	1729587	Bushing, Snap.	1	57	• 1186047	Washer, Flat 3/8 ID x 1-3/8 OD	8
16	• 1723474	Clamp, Hose.	1	58	1726510	Mount, Rear.	2
17	1718029	Valve, Shut Off.	1	59	1724896	Mount, Front	2
18	1732883	Fan.	1	60	• 1107383	Washer, Flat 3/8	5
19	• 1100113	Screw, Set, 1/4-20 x 1/2.	1	61	1733879	Nut, Round Special	2
20	1729261	Hub Assembly, Hydrostatic.	1	62	1734266	Adjusting Knob.	2
21	1731806	Disc, Coupling	4	63	• 1733398	Nut, Lock 3/8-16	4
22	1734142	Shaft Assembly, Drive	1	64	• 1177042	Lockwasher 3/8	2
23	• 1100047	Screw, Hex. Hd. Cap 3/8-16 x 1-1/2	12	65	1726701	Belt, V	1
24	• 1733398	Nut, Hex. Lock, 3/8-16	12	66	1734264	Support, Idler.	1
25	• 1107383	Washer, Flat, 3/8.	12	67	1730020	Knob, Adjusting	1
26	• 1100086	Screw, Hex. Hd. Cap 3/8-16 x 1-3/4	1	68	1734564	Decal, Belt Adjustment.	1
27	• 1100243	Washer, Lock 3/8	1	69	1734925	Idler Arm Assembly.	1
28	• 1100256	Washer, Flat 3/8	1	70	1734566	Idler Arm Assembly.	1
29	1734216	Hub, Engine	1	71	1727896	Pivot.	1
30	1731857	Shield, Grass.	1	72	• 1113527	Ring, Retaining 3/4	2
31	1731856	Shield, Heat	1	73	1726660	Pulley, Idler	2
32	• 1186317	Screw, Whiz Lock, 1/4-28 x 3/8	4	74	• 1186350	Screw, Whiz Lock 3/8-16 x 1-1/2	2
33	*	Engine, 16 HP OH-160.	1	75	• 1186393	Nut, Whiz Lock 3/8-16.	2
34	• 1104337	Key, Sq. 1/4 x 1	1	76	• 1107386	Washer, Flat 5/8	2
35	• 1730023	Nipple, Close	1	77	• 1100350	Pin, Cotter.	4
36	• 1730022	Elbow, 45°	1	78	1726661	Spring Extension.	1
37	• 1100276	Key, Woodruff 1/4-7/8.	1	79	1733135	Support, Engine L.H.	2
38	1734788	Clutch/Brake, Elect.	1	80	1733134	Support, Engine R.H.	1
39	• 1186345	Screw, Whiz Lock 3/8-16 x 3/4	16	81	1708125	Pin, Clevis	2
40	• 1100009	Screw, Hex. Hd. 3/8-24 x 1	1	82	1734935	Indicator Cap	2
41	• 1100243	Washer, Lock 3/8	1	83	1891733	Flat Washer, Spec.	2
42	1734790	Clutch Retainer.	1	84	1734780	Engine Mount R.H.	1
				85	• 1185130	Hex Hd. Cutting Screw No. 10-24 x 3/4	7
				NI	1718780	Sealant, Exhaust	AR

• Common Hardware - Purchase Locally (Grade 5 where applicable)

*Order Parts From Your Local Tecumseh, Lauson - Power Products Outlet

BOLENS 16 HP TRACTOR

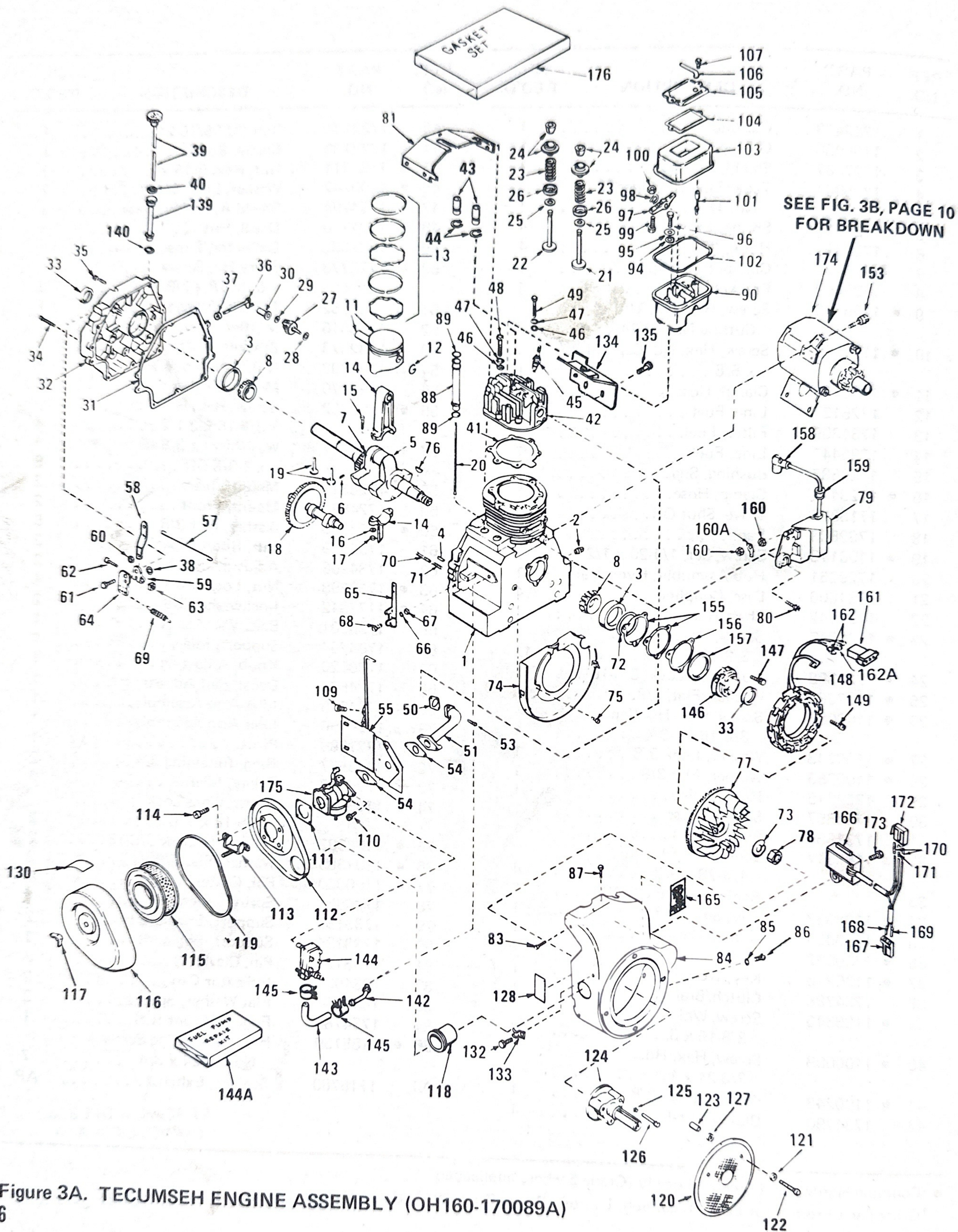


Figure 3A. TECUMSEH ENGINE ASSEMBLY (OH160-170089A)

REF. NO.	TECUMSEH PART NO.	DESCRIPTION	NO. REQ'D.	REF. NO.	TECUMSEH PART NO.	DESCRIPTION	NO. REQ'D.
1	33464	Cylinder Assy. (Incl. Nos. 2, 4 & 33)	1	33	31950	Seal, Oil.	2
2	31927	Plug, Oil Drain (Sq. hd., 3/8-18)	1	34	• 30564	Screw, Hex Hd. Cap Sems, 1/4-20 x 1	8
3	31928	Cup, Bearing.	2	35	• 650588	Screw, Hex hd. Sems, 1/4-20 x 2	1
4	27652	Pin, Dowel	2	36	32425	Rod Assy., Governor	1
5	34196	Crankshaft Assy. (Incl. Nos. 3, 6, 7 & 8).	1	37	32426	Spacer, Governor Rod	1
6	29783	Pin, Crankshaft Gear	1	38	29193	Ring, Retaining.	1
7	31931	Gear, Crankshaft.	1	39	33068	Dipstick, Oil Fill (Incl. No. 40)	1
8	31932	Bearing, Tapered Roller	2	40	29985	"O" Ring.	1
11	32238	Piston & Pin Assy. (Incl. 2 of No. 12) (Std.)	1	41	*33474	Gasket, Cylinder Head	1
11	32239	Piston & Pin Assy. (Incl. 2 of No. 12) (.010 oversize)	1	42	33465	Head, Cylinder	1
11	32240	Piston & Pin Assy. (Incl. 2 of No. 12) (.020 oversize)	1	43	730195	Guide Kit, Valve (Incl No. 44).	1
11	32621	Piston & Pin Assy. (Incl. 2 of No. 12) (.030 oversize)	1	44	34315	Ring, Retaining.	2
11	32622	Piston & Pin Assy. (Incl. 2 of No. 12) (.040 oversize)	1	45	33657	Plug, Spark (Champion L-85 or equivalent) Except for Canada	1
12	31919	Ring, Piston Pin Retaining.	2	45	34046	Resistor Spark Plug (Canadian Regulations re- quire RL-85 resistor spark plug)	1
13	32241	Ring Set, Piston (Std.)	1	46	650690	Washer, Belleville.	6
13	32242	Ring Set, Piston (.010 oversize)	1	47	• 650691	Washer, Flat	6
13	32243	Ring Set, Piston (.020 oversize)	1	48	• 650692	Screw, Hex Hd. Cap, 5/16-18 x 1-3/4	4
13	32625	Ring Set, Piston (.030 oversize)	1	49	• 650746	Screw, Hex Hd. Cap, 5/16-18 x 1-3/8	2
13	32626	Ring Set, Piston (.040 oversize)	1	50	*33515	Gasket, Intake pipe	1
14	33093A	Rod Assy., Connecting (Incl. Nos. 15, 16 & 17)	1	51	33475	Pipe, Intake	1
15	32077	Bolt, Connecting Rod.	2	53	• 792028	Screw, Hex Hd. Sems, 5/16-18 x 7/8	2
16	26073	Washer, Connecting Rod.	2	54	*33476	Gasket, Carburetor	2
17	• 28264	Nut, Connecting Rod, 5/16-24	2	55	34285	Baffle, Air	1
18	33470	Camshaft (Mech. Compression Release).	1	57	33478	Link, Governor lever-to- throttle	1
19	33472	Lifter, Valve.	2	58	31963	Lever, Governor adjusting	1
20	33471	Rod, Push	2	59	31964	Clamp, Governor lever	1
21	33505	Valve, Intake (Std.)	1	60	• 650518	Lockwasher, No. 10 E.T.	1
21	33645	Valve, Intake (1/32" oversize)	1	61	• 30312	Screw, Hex slotted hd. Sems, 10-32 x 1/2	1
22	33506	Valve, Exhaust (Std.)	1	62	• 650544	Screw, Pan flex hd., 10-24 x 7/8	1
22	33646	Valve, Exhaust (1/32" oversize)	1	63	• 7975	Nut, Square, 10-24	1
23	33507	Spring, Valve	2	64	31965	Plate, Governor spring	1
24	33508	Retainer & Cap Set, Keeper Valve.	2	65	31984A	Lever, Control	1
25	*33509	"O" Ring.	2	66	28558	Washer, Wave	1
26	33510	Cap, Valve	2	67	31966	Bushing, Governor lever	1
27	33473	Gear & Shaft Assy., Governor	1	68	• 650597	Screw, Hex washer hd. mach., 10-24 x 5/8	1
28	• 650745	Washer, Flat	1	69	31967	Spring, Governor.	1
29	• 30590A	Washer, Flat	1	70	• 650591	Screw, Fil. slotted hd. mach., 10-24 x 2	1
30	31948	Spool, Governor	1	71	33099	Spring, Locking.	1
31	*31956	Gasket, Cylinder Cover.	1	72	*32599	"O" Ring.	1
32	32685	Cover Assy., Cylinder (Incl. Nos. 2, 33, 36, 37 & 38)	1	73	650615	Washer, Flat	1
				74	32579	Baffle, Blower housing	1
				75	• 650561	Screw, Phil. hex hd. Sems, 1/4-20 x 5/8	3

Order parts from your local Tecumseh, Lauson-Power Products outlet.

• Common Hardware - purchase locally (Grade 5 where applicable)

* Indicates items included in gasket set.

SEE PAGE 9 FOR REF. NOS. 79 thru 176

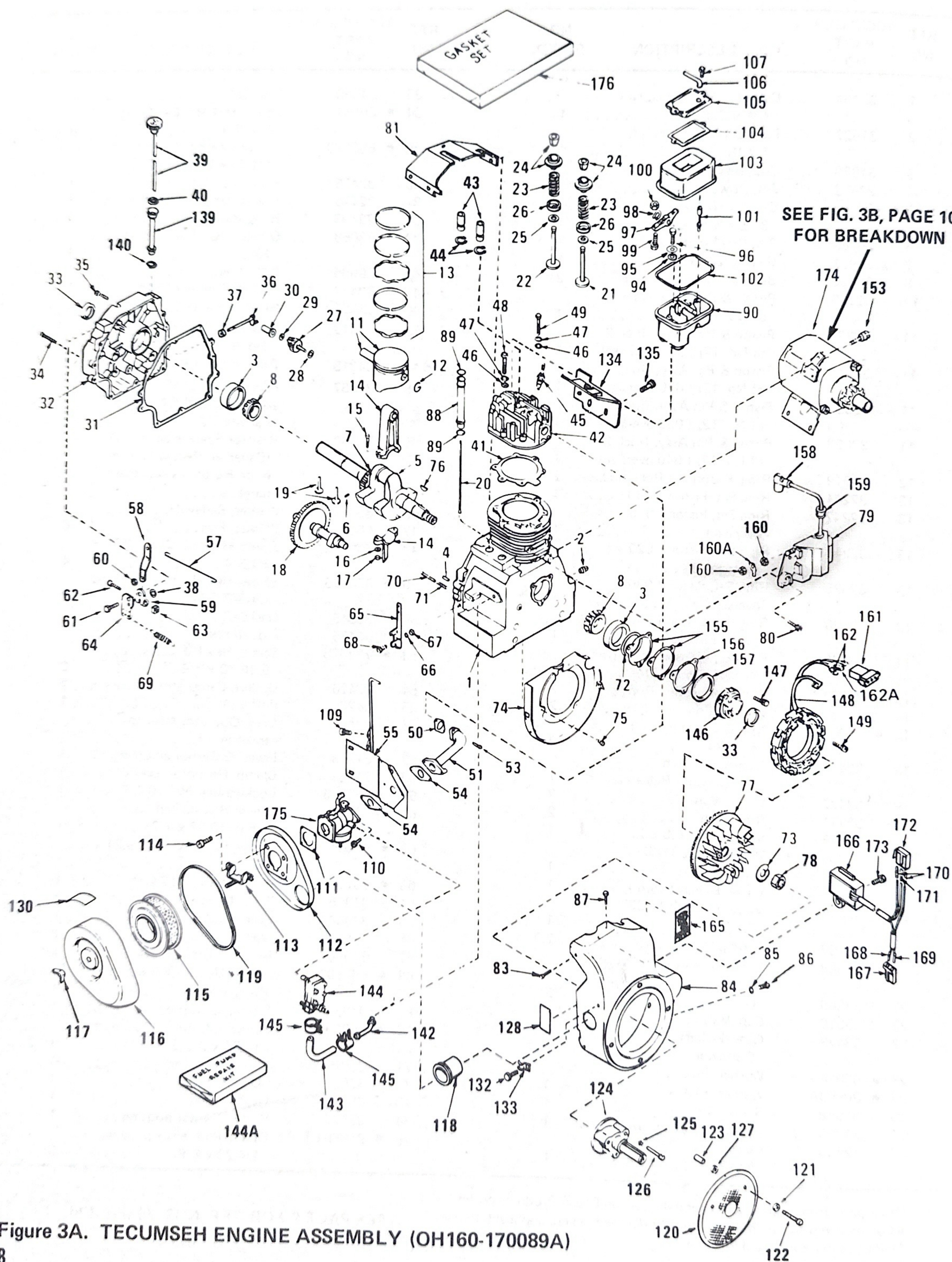


Figure 3A. TECUMSEH ENGINE ASSEMBLY (OH160-170089A)

REF. NO.	TECUMSEH PART NO.	DESCRIPTION	NO. REQ'D.	REF. NO.	TECUMSEH PART NO.	DESCRIPTION	NO. REQ'D.
76	650592	Key, Flywheel	1	123	32426	Spacer, Screen	3
77	610909	Flywheel	1	124	32252	Shaft, Flywheel extension	1
78	650616	Nut, Flywheel pilot	1	125	• 27513	Washer, Lock	3
79	610906	Magneto, Solid state (Incl. Nos. 158 thru 160A)	1	126	792051	Screw, Ferry cap "Countr-Bor", 1/4-20 x 1-3/4	3
80	650661	Screw, Phil. fil. hd. w/conical spring lockwasher, 1/4-20 x 3/4	2	127	• 650675	Washer	3
81	34284	Cover, Cylinder head	1	128	34346	Decal, Name & Instruction	1
82	• 28942	Screw, Hex hd. slotted Sems, 10-32 x 3/8	2	130	31752	Decal, Air cleaner	1
83	650751	Screw, Phil. hex hd. w/conical spring washer, 1/4-20 x 7/16	1	132	• 28942	Screw, Hex hd. slotted Sems, 10-32 x 3/8	1
84	34195A	Housing, Blower	1	133	27793	Clip, Conduit	1
85	• 8274	Lockwasher, Split, 5/16	2	134	34283	Cover, Cylinder head	1
86	• 650595	Screw, Hex hd. cap, 5/16-24 x 3/8	2	135	• 30688	Screw, Hex hd. cap Sems, 1/4-20 x 1/2	2
87	• 650752	Screw, Phil. hex hd. Sems, 1/4-20 x 7/16	1	139	32352	Tube Assy., Oil filler	1
88	33480	Tube, Push rod	2	140	*29673	Gasket, Oil filler	1
89	*33481	"O" Ring	4	142	32958	Fitting, Fuel pump	1
90	33482	Housing, Rocker arm	1	143	34357	Line, Fuel pump	1
94	*33484	"O" Ring	3	144	34286	Pump, Fuel	1
95	• 650168	Washer, Flat	3	144A	33010	Repair Kit, Fuel pump	1
96	• 32610A	Screw, Flanged hex hd., 1/4-20 x 29/32	3	145	26460	Clamp, Fuel line	2
97	33485	Arm, Rocker	2	146	32577	Cover, Cylinder (See Note 1)	1
98	33486	Ring, Retaining	2	147	• 792028	Screw, Hex hd. Sems, 5/16-18 x 7/8	3
99	650755	Screw, Adjusting	2	148	610902	Coil Assy., Alternator (Incl. Nos. 161, 162 & 162A)	1
100	650456	Nut, Flange whiz-lock, 1/4-20	2	149	• 650521	Screw, Phil. fil. hd. Sems, 10-32 x 1-1/8	2
101	650756	Stud, Rocker arm cover	2	153	• 650781	Screw, Hex hd. cap Sems, 5/16-18 x 11/16	3
102	*33487	"O" Ring	1	155	*31971	Gasket, Shim (.004/.005 thick, See Note 1)	2
103	33488	Cover, Rocker arm housing	1	156	*31972	Gasket, Shim (.005/.007 thick, See Note 1)	1
104	*31958	Gasket, Breather	1	157	32031	Spacer, Steel (.010 thick, See Note 1)	1
105	33489	Body Assy., Breather	1	158	610118	Cover, Spark plug	1
106	33490	Tube, Breather	1	159	610750	Grommet, Lead wire	1
107	• 30102	Screw, Hex slotted washer hd. Sems, 10-32 x 5/8	2	160	• 610408	Nut, Hex. 10-32	2
109	• 650738	Screw, Phil. hex spinlock hd. thread forming, 1/4-20 x 5/8	1	160A	610908	Terminal, Female 1/4"	1
110	• 650378	Screw, Fil. hd. Sems, 5/16-18 x 1-1/8	2	161	610903	Connector, Flat	1
111	*33492	Gasket, Air cleaner	1	162	610905	Terminal	2
112	34192	Bracket, Air cleaner	1	162A	610904	Terminal	1
113	33494	Bracket, Air cleaner	1	165	34316	Decal, Name	1
114	• 650399	Screw, Phil. fil. hd. Sems, 10-32 x 5/8	4	166	610988	Regulator (Incl. Nos. 167 thru 172)	1
115	32008	Element, Air cleaner	1	167	610921	Connector	1
116	34193	Cover, Air cleaner	1	168	610989	Terminal	1
117	650513	Nut, Wing, 1/4-20	1	169	610922	Terminal	1
118	34194	Tube, Air cleaner	1	170	610991	Terminal, Female	2
119	34197	Gasket, Air cleaner	1	171	610992	Terminal, Female	1
120	32953	Screen, Starter pulley	1	172	610990	Connector, Male	1
121	27070	Washer, Lock	3	173	• 30688	Screw, Hex hd. cap Sems, 1/4-20 x 1/2	1
122	• 650670	Screw, Truss hd. mach., 1/4-20 x 3/4	3	174	33835	Motor, Starter (12 Volt) (Incl. NO. 153)	1
				175	631754	Carburetor (Incl. No. 54)	1
				176	33516A	Gasket Set (Incl. items marked *)	1

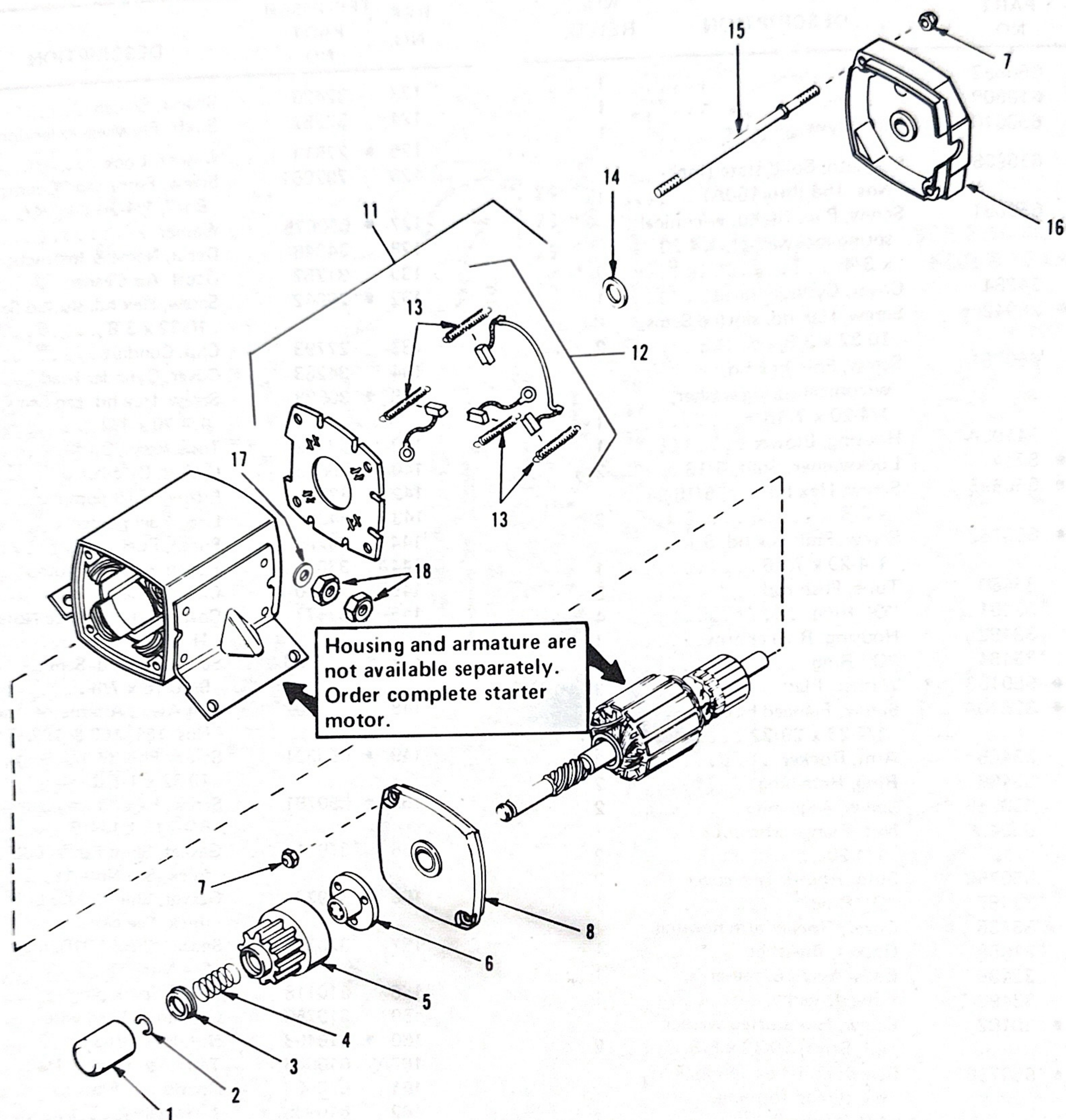
Note 1: Determine the gap between the cover and the machined surface on the cylinder, which can be from .001" up to .007", in which case **no shim gaskets will be required**. Use of gaskets must be limited to a combined total of .010" thick. Steel spacers must be used as required to eliminate crankshaft end play.

Order parts from your local Tecumseh, Lauson-Power Products outlet.

• Common Hardware - purchase locally (Grade 5 where applicable)

* Indicates items included in gasket set.

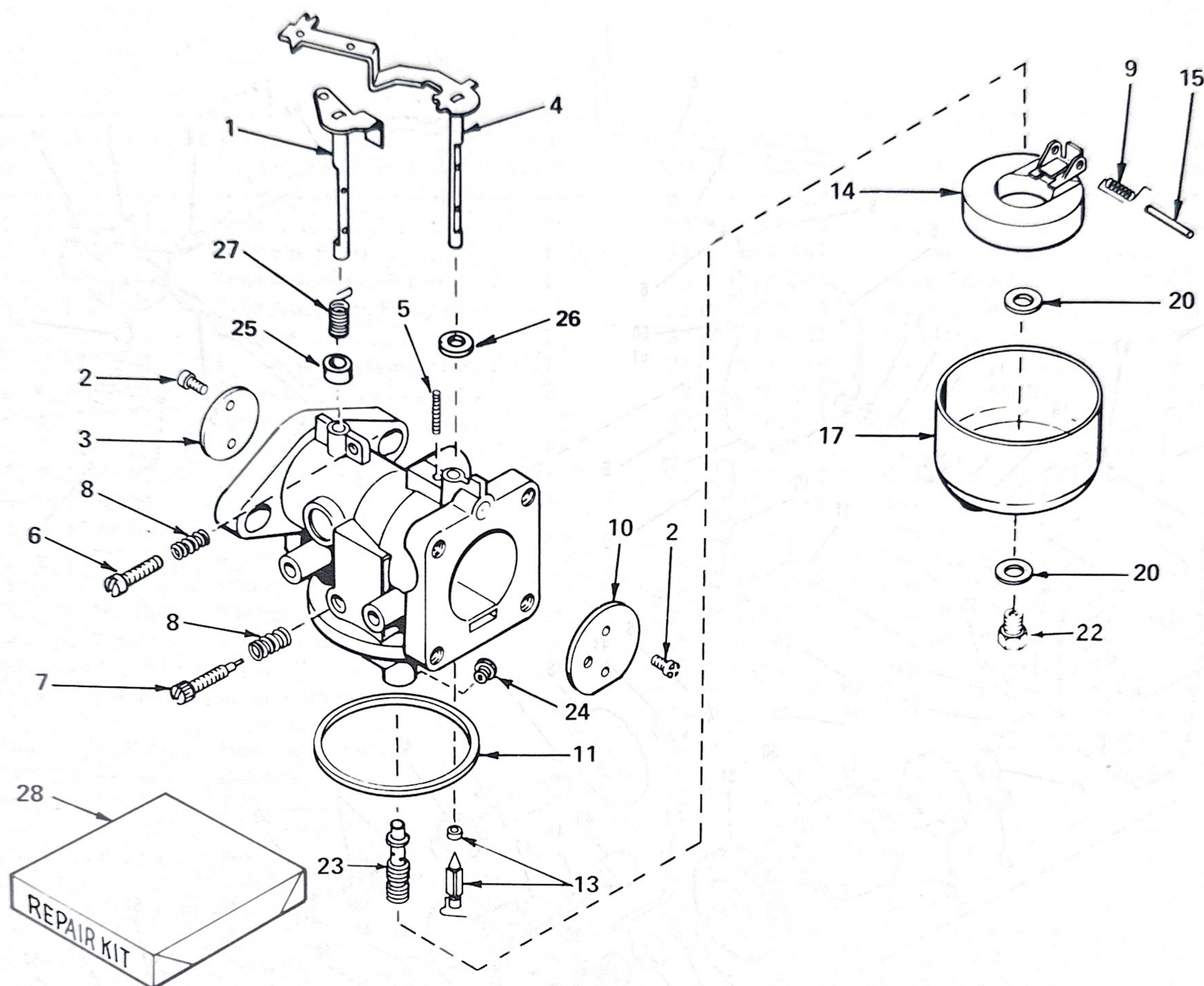
BOLENS 16 HP TRACTOR



REF. NO.	TECUMSEH PART NO.	DESCRIPTION	NO. REQ'D.
1	33841	Cover, Dust	1
2	33842	Ring, Retainer	1
3	33843	Retainer, Spring	1
4	33854	Spring, Anti-drift.	1
5	33844	Gear	1
6	33433	Nut, Engaging.	1
7	33450	Nut, Lock	4
8	33845	Cap Assy., Drive end	1
11	33848	Card Assy., Brush (Incl. No. 12)	1

REF. NO.	TECUMSEH PART NO.	DESCRIPTION	NO. REQ'D.
12	33849	Brush & Spring Kit (Incl. 4 pcs. of No. 13)	1
13	33850	Spring, Brush	4
14	590500	Washer, Thrust	1
15	33851	Bolt, 10-32 x 5-1/4	2
16	33852	Cap Assy., Commutator end	1
17	650168	Washer, Flat	1
18	650723	Nut, Hex	2

Figure 3B. STARTER ASSEMBLY (33835)



REF. NO.	TECUMSEH PART NO.	DESCRIPTION	NO. REQ'D.
1	631681	Shaft & Lever Assy., Throttle (Incl. No. 2)	1
2	30357	Screw, Rd. hd., 6-32 x 1/4 (Early Production)	4
2	650506	Screw, Pan hd. 4-40 x 3/16 (Late Production)	4
3	631682	Shutter, Throttle	1
4	631683	Shaft & Lever Assy., Choke (Incl. No. 2)	1
5	27113	Spring, Choke stop	1
6	650399	Screw, Throttle adjusting	1
7	*27112	Needle, Idle adjusting	1
8	27114	Spring, Adjusting	2
9	31503	Spring, Float Shaft	1
10	631684	Shutter, Choke	1

REF. NO.	TECUMSEH PART NO.	DESCRIPTION	NO. REQ'D.
11	*27109	Gasket, Bowl-to-body	1
13	*631687	Valve, Seat & Spring Assy. (Incl. No. 9)	1
14	27105	Float	1
15	*27106	Shaft, Float	1
17	29170	Bowl, Float	1
20	*27110	Gasket, Bowl-to-body	2
22	631713	Nut, Float bowl	1
23	631685	Nozzle, Main	1
24	631852	Fuel Jet, Main	1
25	632039	Seal, Throttle shaft dust	1
26	632040	Seal, Choke shaft dust	1
27	32096	Spring, Throttle return	1
28	631719	Repair Kit (Incl. items marked *)	1

Figure 3C. CARBURETOR ASSEMBLY (631754)

BOLENS 16 HP TRACTOR

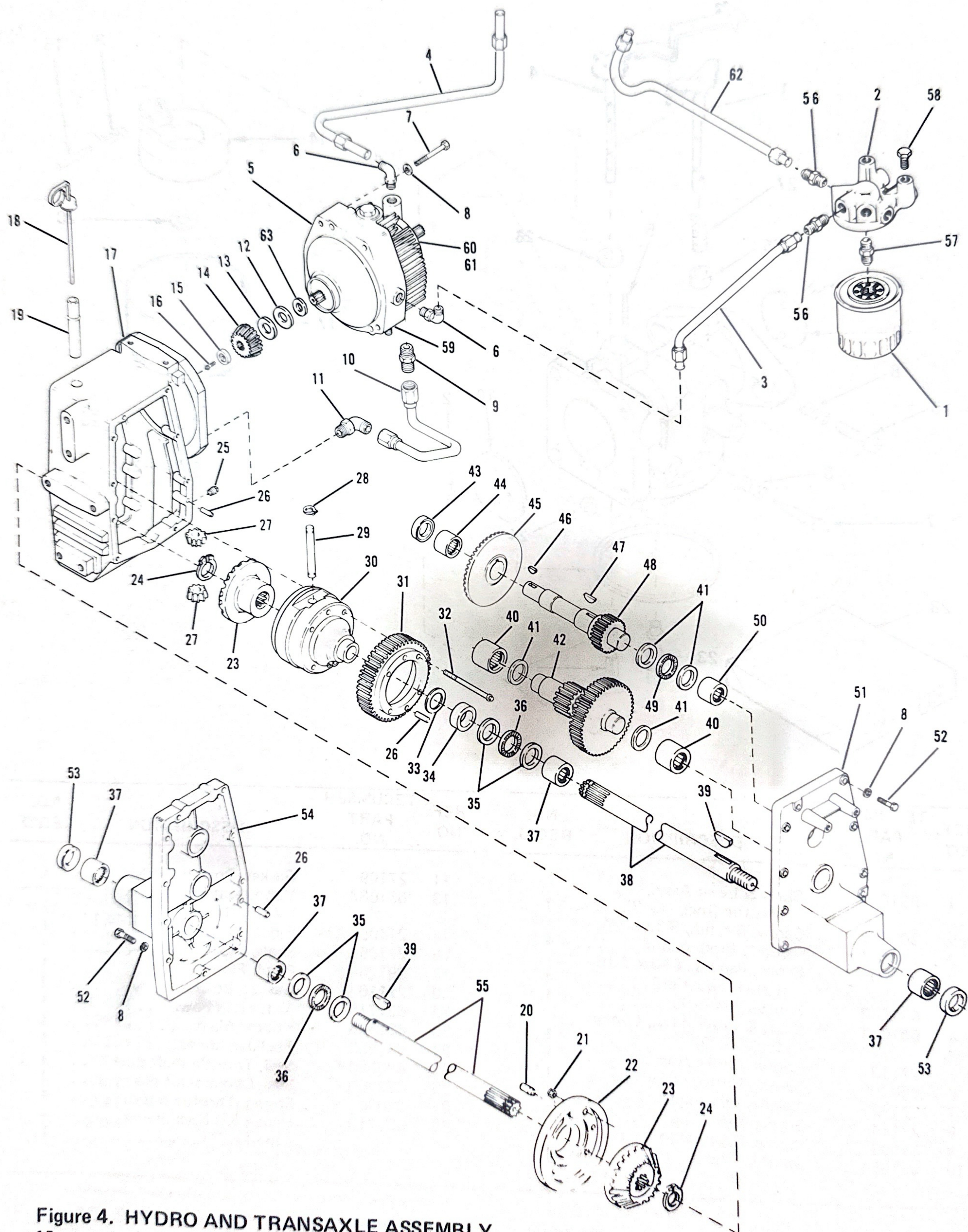
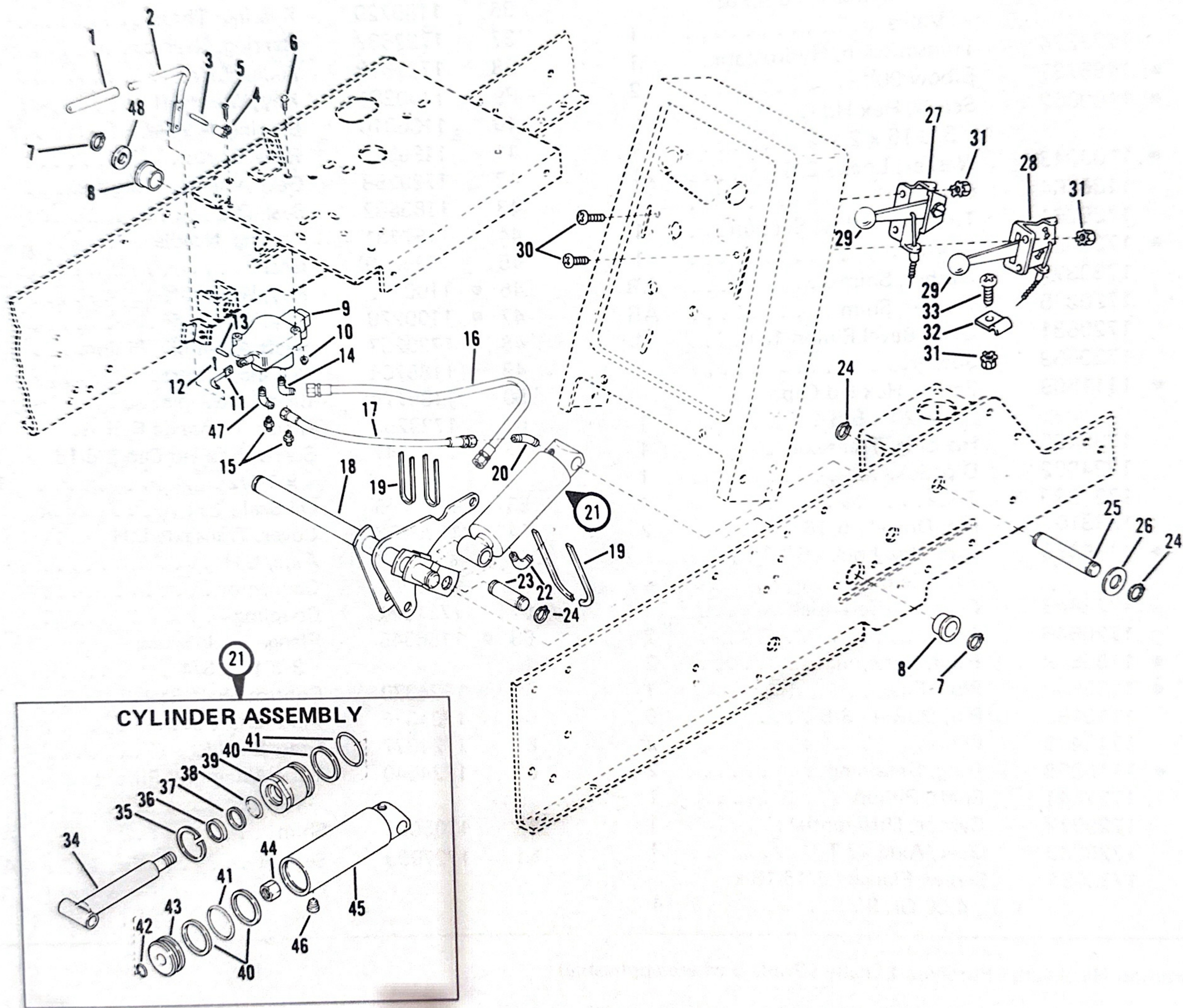


Figure 4. HYDRO AND TRANSAXLE ASSEMBLY
12

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.	REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	1726450	Filter	1	33	1800338	Shim.	AR
2	1734345	Manifold, Filter.	1	34	1729497	Spacer, Tubular.	1
3	1734354	Tube Assembly, Return . . .	1	35	1185730	Race, Thrust.	4
4	1729265	Tube Assembly, Pump to Valve	1	36	1185729	Bearing, Thrust.	2
5	1729274	Transmission, Hydrostatic. .	1	37	1727637	Bearing, Needle.	4
6	• 1185737	Elbow 90°	2	38	1727619	Axle, R.H.	1
7	• 1100062	Screw, Hex Hd Cap 3/8-16 x 2-1/2	4	39	• 1100281	Key, Woodruff	2
8	• 1100243	Washer, Lock - 3/8.	21	40	1186010	Bearing, Needle.	2
9	1186464	Connector	1	41	1186002	Race, Thrust.	4
10	1729264	Tube Assembly, Suction. . .	1	42	1729258	Gear Assembly, Cluster. . . .	1
11	• 1724390	Elbow, 90°	1	43	1185882	Seal, Oil.	1
12	1730374	Washer, Shim	AR	44	1187731	Bearing, Needle.	1
13	1730375	Washer, Shim	AR	45	1724079	Gear	1
14	1729531	Gear, Bevel Pinion 18T. . . .	1	46	• 1100276	Key, Woodruff	1
15	1729559	Spacer.	1	47	• 1100279	Key, Woodruff	1
16	• 1111599	Screw, Hex Hd Cap 1/4-20 x 5/8	1	48	1729257	Shaft Assembly, Pinion. . . .	1
17	1732450	Housing, Transaxle	1	49	1185764	Bearing, Thrust.	1
18	1724092	Dipstick.	1	50	1185774	Bearing, Needle.	1
19	1724090	Tube.	1	51	1729255	Cover, Transaxle R.H.	1
20	1733103	Pin, Dowel - 5/16	2	52	• 1100047	Screw, Hex Hd Cap 3/8-16 x 1-1/2	17
21	• 1186459	Nut, Hex Lock - 5/16-18 Grade 8.	4	53	1185295	Oil Seal	2
22	1728645	Cover, Differential.	1	54	1729253	Cover, Transaxle L.H.. . . .	1
23	1726646	Gear	2	55	1727618	Axle, L.H.	1
24	• 1185689	Ring, Retaining.	2	56	1721989	Connector	2
25	• 1185930	Plug, Pipe.	1	57	1721921	Coupling	1
26	1110189	Pin, Dowel - 3/8	6	58	• 1186345	Flange Lock Screw 3/8-16 x 3/4	2
27	1713466	Pinion.	2	59	1724370	Control Shaft Seal	1
28	• 1118808	Ring, Retaining.	2	60	1724376	Input Shaft Seal	1
29	1727641	Shaft, Pinion	1	61	1724377	Grass Shield	1
30	1729972	Carrier, Differential	1	62	1734549	Tube Assembly, Filter to Valve	1
31	1729260	Gear, Axle 47 T	1	63	1705093	Shim.	AR
32	1733684	Screw, Flange - 5/16-18 x 4.00 Gr. 9	4	NI	1727993	Sealant	AR

• Common Hardware - Purchase Locally (Grade 5 where applicable)

BOLENS 16 HP TRACTOR



REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.	REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	1716470	Grip	1	25	1724703	Pin, Cyl. Anchor	1
2	1729268	Lever, Lift	1	26 •	1708012	Washer, Flat 3/4	1
3	1185271	Pin, Roll 7/32 x 1-1/8	1	27	1734795	Control, Choke	1
4	1732471	Clamp	2	28	1734523	Control, Throttle.	1
5 •	1185750	Screw, Self Drilling No. 10-24 x 5/8.	2	29	1724527	Knob Only.	2
6	1186313	Screw, Hex. Hd. Whiz Lock 1/4-20 x 1-1/4.	2	30 •	1115815	Screw, Machine No. 10-24 x 5/8.	4
7	1118554	Ring, Retaining.	2	31	1185985	Nut, Keps No. 10-24	5
8	1185728	Bushing.	2	32	1715127	Clamp, Housing.	1
9	1723405	Valve	1	33 •	1185712	Screw, Hex. Hd. Thd. Cutting No. 10-24 x 1/2	1
10	1186389	Nut, Hex. Whiz Lock 1/4-20.	2	34	1729390	Rod Assembly Hydraulic Cylinder.	1
11	1724742	Link, Lever	1	35	1118735	Ring, Internal Retaining	1
12 •	1185850	Pin, Cotter	1	36	1185266	Seal, Oil.	1
13	1185479	Pin, Roll 3/32 x 5/8.	1	37	1186019	Ring, Back Up	1
14	1185737	Elbow, 90°	1	38	1177395	O-Ring	1
15	1717563	Connector	2	39	1724511	Head, Cylinder	1
16	1733692	Assembly, Hose.	1	40	1186018	Ring, Back Up	3
17	1719179	Hose Assembly, Cylinder	1	41	1186017	O-Ring	2
18	1729271	Shaft Assembly, Lift	1	42	1177509	O-Ring	1
19	1805345	Tie, Cable	4	43	1724515	Piston	1
20	1185903	Elbow, 45°	1	44 •	1110154	Nut, Hex. Lock 5/8-18.	1
21	1729387	Cylinder Assembly, Hydraulic (Incl. Ref. No. 34 thru 46).	1	45	1729388	Tube Assembly, Hydraulic Cylinder.	1
22	1185739	Elbow, 90°	1	46	1105620	Plug, Pipe (Plastic).	2AR
23	1724704	Pin, Cyl. Rod	1	47	1185902	Elbow 45°	1
24	1113527	Ring, Retaining.	4	48	1185816	Washer	AR

•Common Hardware — purchase locally (Grade 5 where applicable)

BOLENS 16 HP TRACTOR

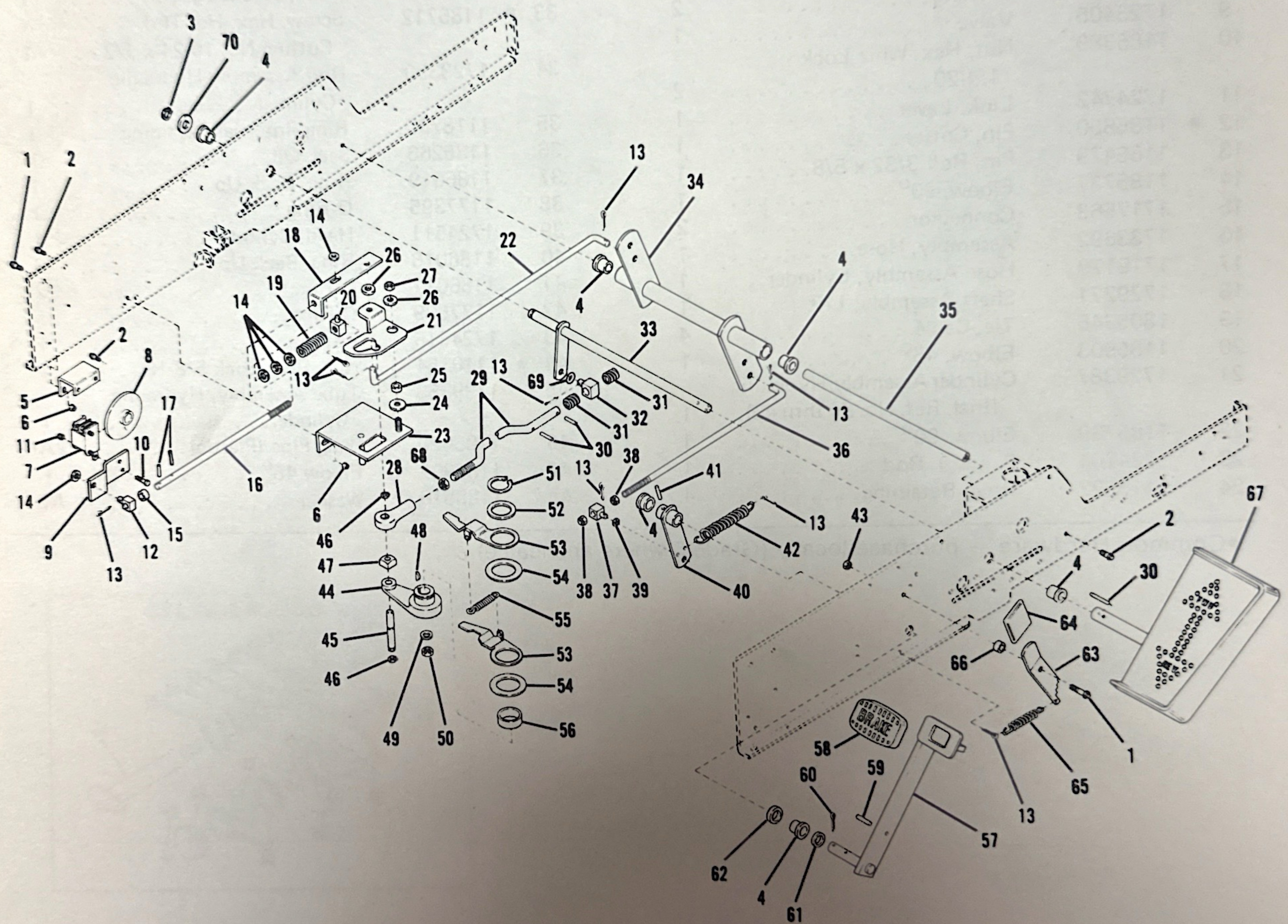


Figure 6. BRAKE AND HYDRO CONTROL ASSEMBLIES
16

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.	REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	● 1186347	Screw, Hex. Hd. Whiz Lock 3/8-16 x 1	3	33	1729151	Shaft Assembly, Speed Control	1
2	● 1186345	Screw, Hex. Hd. Whiz Lock 3/8-16 x 3/4	4	34	1730206	Shaft Assembly, Brake	1
3	● 1118808	Ring, Retaining	1	35	1731716	Rod, Frame Support	1
4	1185802	Bearing, Flanged	6	36	1730209	Rod, Brake Control	1
5	1729496	Bracket, Transmission Support	1	37	1714663	Block, Pivot	1
6	● 1186393	Nut, Hex. Whiz Lock 3/8-16	4	38	● 1186259	Nut, Hex. 3/8-16	2
7	1732361	Brake Assembly, Mechanical	1	39	1724403	Spacer	1
8	1729273	Disc Assembly, Brake	1	40	1729163	Arm Assembly, Brake	1
9	1732367	Extension, Brake Arm	1	41	1732147	Pin, Drive Lock	1
10	● 1100805	Screw, Hex. Hd. Cap 1/4-20 x 3/4	2	42	1720612	Spring, Extension	1
11	● 1186389	Nut, Hex. Whiz Lock 1/4-20	2	43	● 1733398	Locknut 3/8-16	1
12	1725265	Block, Swivel	1	44	1722151	Arm, Speed Control	1
13	● 1100346	Pin, Cotter	9	45	1734563	Pin, Control	1
14	● 1107382	Washer, Flat 5/16	5	46	● 1118802	Ring, Retaining	2
15	1716729	Spacer	1	47	1720699	Block, Cushion	1
16	1729217	Rod, Brake	1	48	1104435	Key, Woodruff	1
17	1177625	Pin, Roll	2	49	● 1107385	Washer, Flat - 1/2	1
18	1732370	Bracket, Brake Rod	1	50	1186233	Nut, Hex 1/2-13	1
19	1732393	Spring, Compression	1	51	● 1185732	Ring, Retaining	1
20	1725264	Block, Swivel	1	52	1720529	Washer, Thrust	1
21	1729213	Plate, Neutral	1	53	1720523	Arm, Neutralizer	2
22	1729218	Rod, Neutral Plate	1	54	1720361	Washer, Thrust	2
23	1729445	Support Assembly, Neutral Plate	1	55	1720928	Spring, Extension	2
24	1703052	Washer, Flat	1	56	1720706	Bearing	1
25	1732369	Spacer, Tubular	1	57	1729170	Pedal Assembly, Brake	1
26	● 1107383	Washer, Flat - 3/8	2	58	1725518	Pad, Pedal	1
27	● 1110108	Nut, Hex. Lock - 3/8	1	59	1120209	Pin, Roll	1
28	1721612	Rod End	1	60	● 1104222	Pin, Cotter	1
29	1734562	Rod, Speed Control	1	61	1716495	Spacer	1
30	1120210	Pin, Roll	3	62	1727888	Spacer	1
31	1721492	Spring, Compression	2	63	1726352	Lock, Brake	1
32	1734827	Swivel	1	64	1728696	Grip	1
				65	1726640	Spring, Extension	1
				66	1718651	Spacer	1
				67	1729147	Pedal Assembly, Foot	1
				68	● 1186246	Nut, Hex 7/16-20	1
				69	1705108	Washer	1
				70	1715301	Thrust Washer	AR

● Common Hardware - Purchase Locally (Grade 5 where applicable)

BOLENS 16 HP TRACTOR

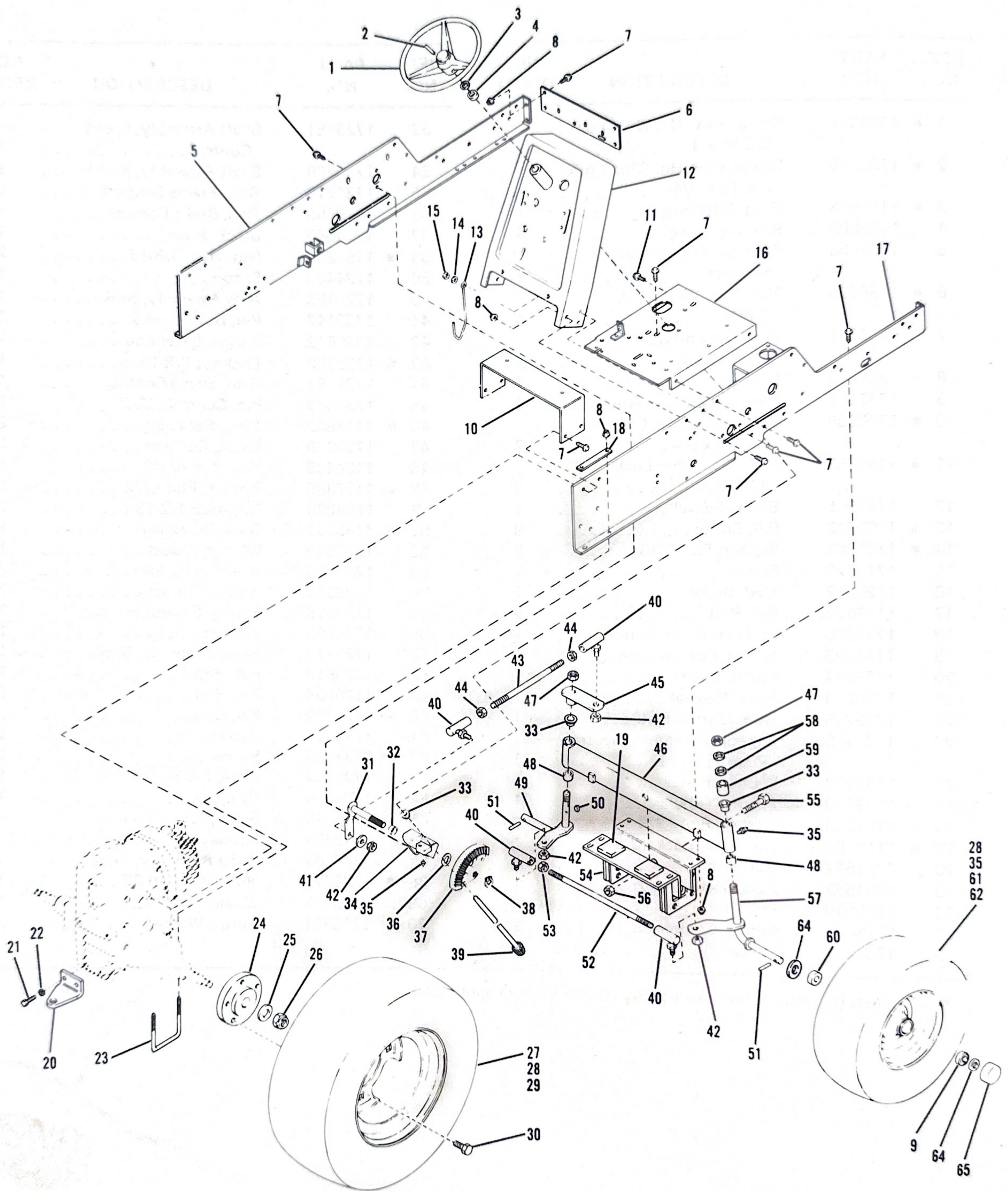


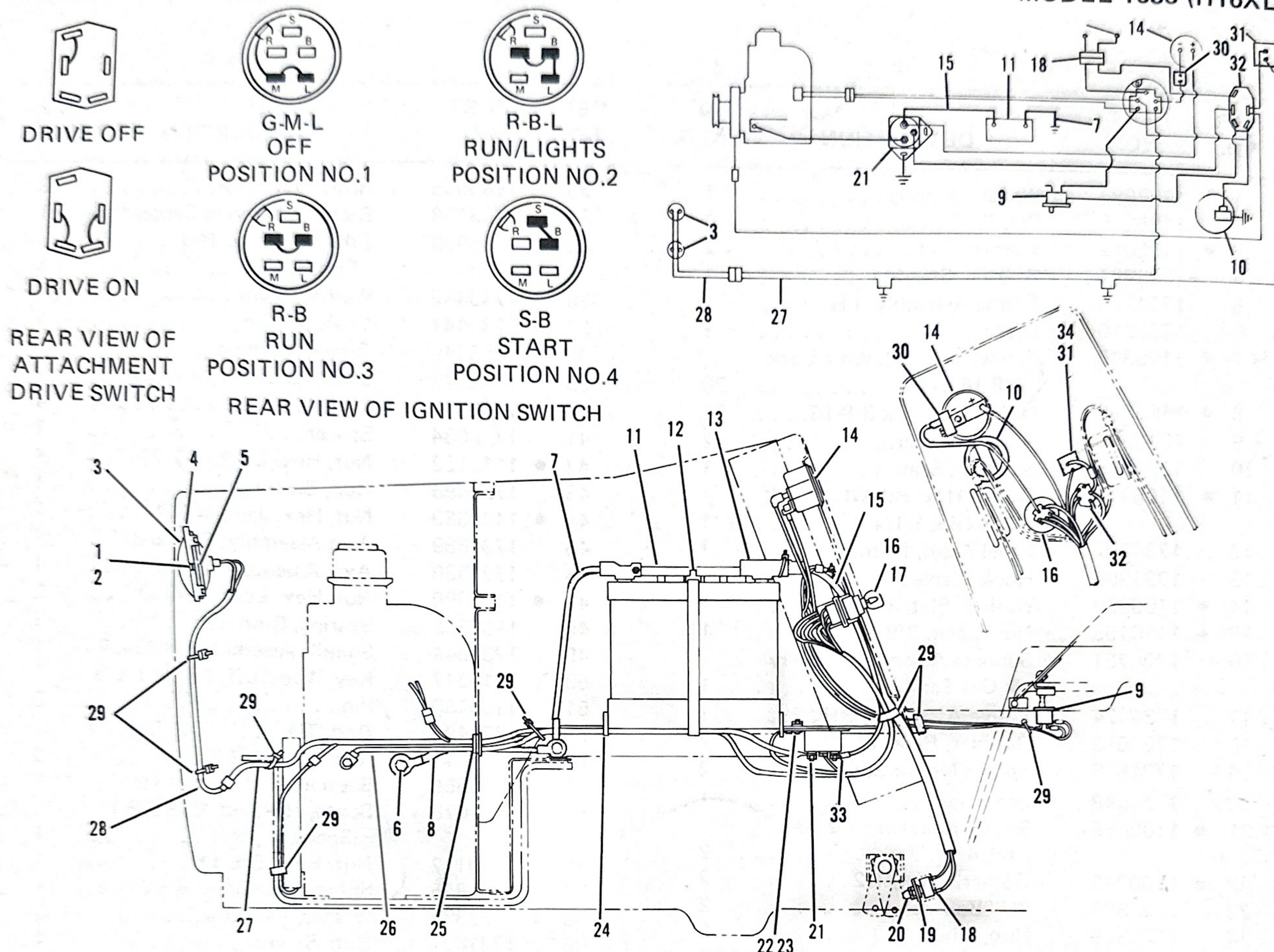
Figure 7. FRAME STEERING AND AXLE ASSEMBLIES

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.	REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	1727284	Wheel, Steering	1	33	1185035	Bushing, Flange.	3
2	1185279	Pin, Roll	1	34	1733488	Bracket, Steering Support . .	1
3 •	1708012	Washer, Flat	2	35	1185976	Fitting, Grease Thd.	5
4	1723994	Bearing, Steering	1			Forming.	AR
5	1734325	Frame Assembly, LH	1	36	1733442	Washer, Shim	1
6	1733210	Brace	1	37	1733441	Gear, Steering	1
7 •	1186345	Screw, Hex. Hd. Whiz Lock 3/8-16 x 3/4	26	38	1185649	Ring, Retaining	1
8 •	1186393	Nut, Whiz Lock 3/8-16. . . .	21	39	1733242	Shaft Assembly, Steering . .	1
9	121898	Thrust Washer.	2	40	1713361	Joint, Ball	4
10	1734555	Support, Seat	1	41	1716034	Spacer.	1
11 •	1186348	Screw, Hex. Hd. Whiz Lock 3/8-16 x 1-1/4	1	42 •	1110152	Nut, Hex. Lock, 1/2-20 . . .	4
12	1734792	Panel Assy., Instrument . . .	1	43	1726496	Rod, Steering	1
13	1731956	Hook, Cable	1	44 •	1109589	Nut, Hex. Jam, 1/2-20	2
14 •	1100256	Washer, Flat, 3/8.	1	45	1731689	Arm Assembly, Steering . . .	1
15 •	1110108	Nut, Lock, 3/8-16	1	46	1731636	Axle Assembly, Front	1
16	1734731	Support Assembly, Battery & Gas Tank	1	47 •	1120390	Nut, Hex. Lock, 3/4-10 . . .	2
17	1734324	Frame Assembly, RH	1	48	1185319	Bearing, Bronze.	2
18	1730692	Doubler, Rear	2	49	1731844	Spindle Assembly LH Wheel.	1
19	1734878	Engine Mount Bumper	2	50	1110547	Key, Woodruff, 3/16 x 1-1/8	1
20	1724698	Draw Bar	1	51	1186460	Pin	2
21 •	1100055	Screw, Hex. Hd., 1/2-13 x 1-1/4.	2	52	1726495	Rod, Tie	1
22 •	1100245	Washer, Lock, 1/2	2	53 •	1186247	Nut, Hex., 1/2-20	2
23	1727898	"U" Bolt	2	54	1730955	Support Assembly, Axle . . .	1
24	1726679	Hub, Wheel	2	55 •	1732078	Screw, Hex. Hd. Cap 5/8-11 (Special)	1
25	1708599	Spacer.	2	56 •	1110112	Nut, Hex., 5/8-11	1
26 •	1120390	Nut, Hex., 3/4-10	2	57	1731845	Spindle Assembly RH Wheel	1
27	1715787	Wheel Assembly	2	58 •	1107387	Washer, Flat, 3/4.	2
28	1718086	Valve	4	59	1731691	Hub, Steering	1
29	1732926	Tire, 23 x 10.50-12	2	60	1185616	Bearing, Ball with Seal	2
30	101085	Bolt, Hub.	10	61	1715789	Wheel Assembly	2
31	1731782	Arm Assembly, Steering . . .	1	62	1732957	Tire, 16 x 6.50-8.	2
32	1733707	Spacer, Tubular.	1	63	1185615	Bearing, Ball.	2
				64 •	1708550	Washer	2
				65	1715899	Cap, Dust, 1-1/2 - 1.0.	2

• Common Hardware - Purchase Locally (Grade 5 where applicable)

BOLENS 16 HP TRACTOR

MODEL 1658 (H16XL)



REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
1	1103959	Washer, Flat No. 10	4
2	1185878	Rivet, Pop 3/16 x 3/8	4
3	1726435	Headlight	2
4	1806805	Plate, Retainer	2
5	1806808	Retainer	2
6	1100088	Screw, Hex. 5/16-18 x 1/2	1
7	1725373	Cable, Battery, Neg	1
8	1734969	Ground Cable	1
9	1734366	Switch	1
10	1732263	Hour Meter	1
11	1718027	Battery, 12 Volt	1
12	1728136	Clamp, Snap Lock	1
13	1721413	Boot, Battery	1
14	1718039	Ammeter 30-0-30	1
15	1725374	Cable, Battery, Pos	1
16	1726169	Switch, Ignition	1
17	1718266	Key, Ignition	1
18	1733577	Switch Assembly, Interlock	1

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D.
19	1890234	Washer	2
20	1733576	Seal, Switch	1
21	1729547	Solenoid	1
22	1115815	Screw, Phil. No. 10-24 x 5/8	2
23	1185985	Nut, Keps Lock No. 10-24	2
24	1185232	Pin, Roll 3/16 x 1-1/4	2
25	1729587	Bushing, Snap	1
26	1728940	Cable, Starter	1
27	1734817	Harness Main	1
28	1727169	Harness, Headlight	1
29	1805345	Cable, Tie	8
30	1729914	Circuit Breaker	1
31	1734824	Lamp, Clutch	1
32	1734356	Switch PTO	1
33	1715012	Electrical Nipple	1
34	1735285	Bulb (Mfg. No. GE 73)	1

• Common Hardware - Purchase Locally (Grade 5 where applicable)

Figure 8. ELECTRICAL SYSTEM

Printed by
FMC Corporation
Outdoor Power Equipment Division
Port Washington, Wisconsin 53074