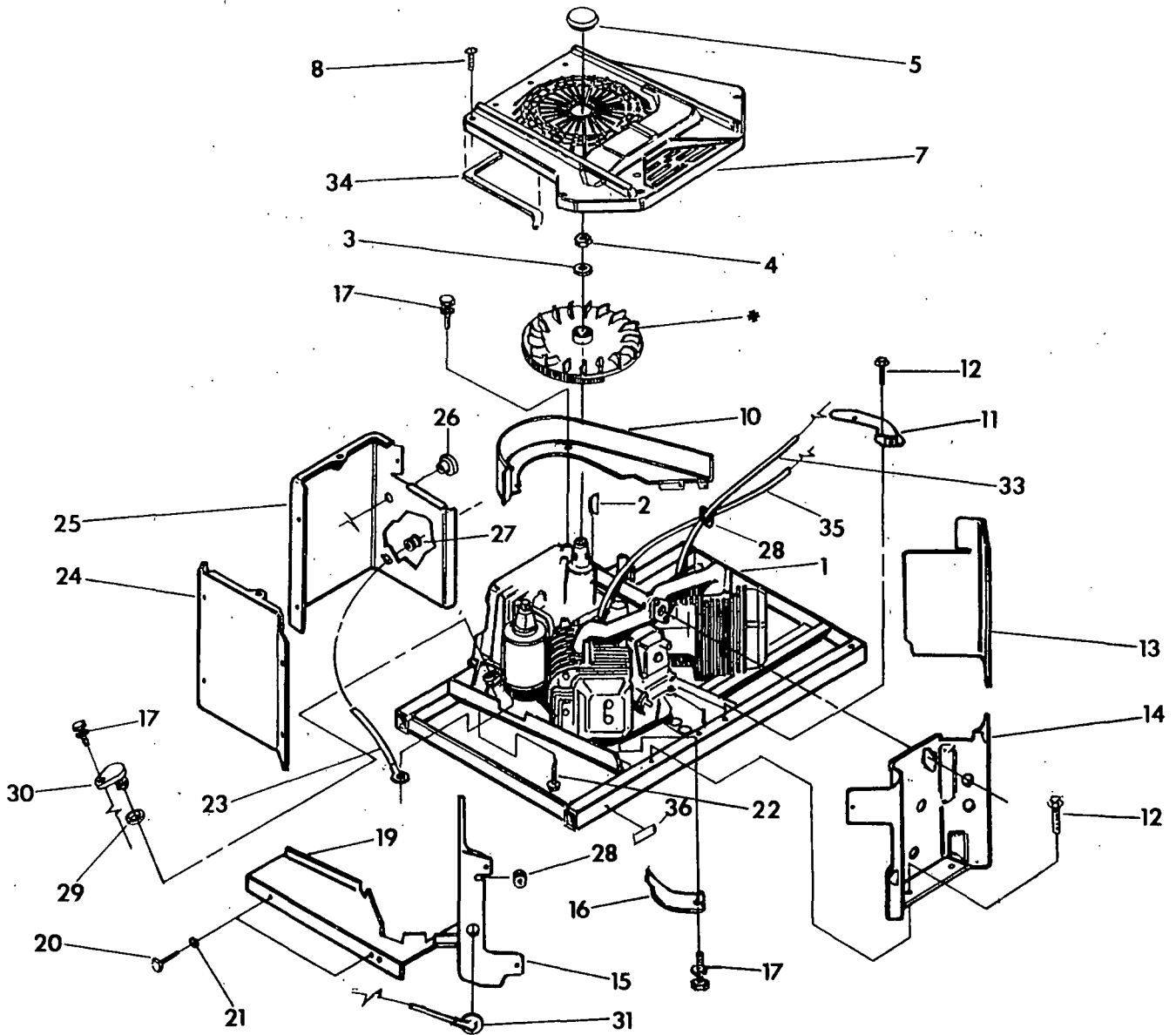


EXPLODED VIEW — SHEET METAL

Drawing No. 89403



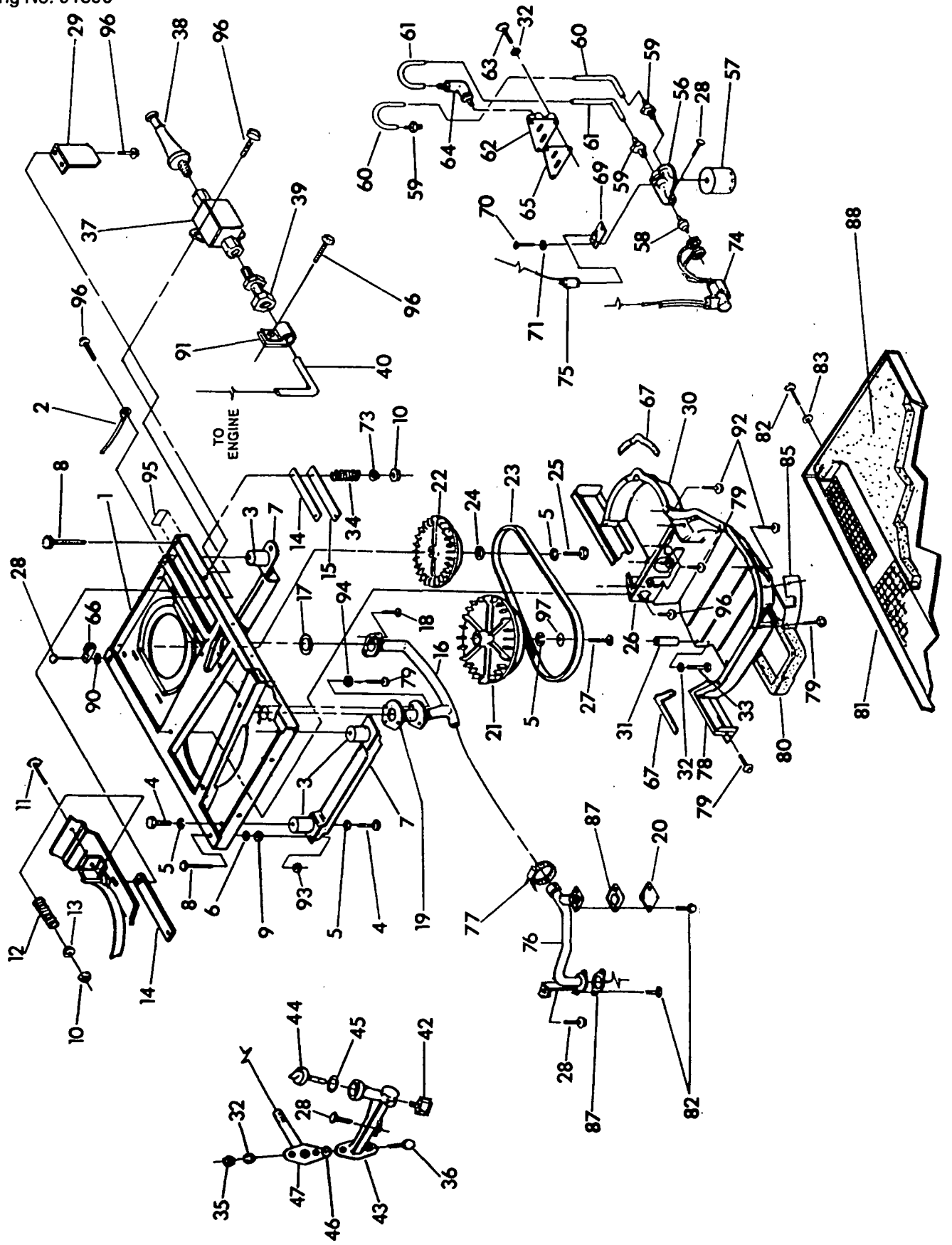
REPAIR PARTS LIST — ENGINE SHEET METAL

Drawing No. 89403

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	1	See Engine Exploded View
2	67877	1	6 x 25 Woodruff Key
3	67198-N	1	Belleville Washer
4	67890	1	M20-1.50 Hex Nut
5	87865	1	Flywheel Access Plug
7	86313	1	Engine Housing Top
8	56893	23	No. 10-24 x 3/8" Crimptite Screw
10	87750	1	Flywheel Scroll
11	74916	1	No. 2 Base Cover
12	74908	9	M5 x 10mm Taptite Screw
13	73190	1	No. 2 Cylinder Wrapper
14	78858	1	Valley Cover
15	78859	1	No. 1 Cylinder Wrapper
16	74902	2	Wrapper — Barrel
17	66476	2	M6-1.00 x 12mm Capscrew with lock washer
19	73191	1	No. 1 Base Cylinder Cover
20	42907	2	M8-1.25 x 16mm Capscrew
21	22129	2	M8 Lockwasher
22	75246	4	3/8"-16 x 1-1/4" Screw
23	10-74260	1	No. 16 Wire Assembly
24	74900	1	Starter Cover
25	73186	1	Crankcase Wrapper
26	81108	1	Snap Bushing
27	22717-B	1	Rubber Grommet
28	22717-A	3	Rubber Grommet
29	67866	1	O-ring
30	77001	1	Oil Fill Plug
31	73132	2	Spark Plug Boot
33	87858A	1	Ground Wire Assembly — #2 cyl.
34	29289	2 ft.	Foam Tape
35	87858B	1	Ground Wire Assembly — #1 cyl.
36	50277	1	Oil Drain Decal

EXPLODED VIEW — BASE AND PULLEYS

Drawing No. 91390



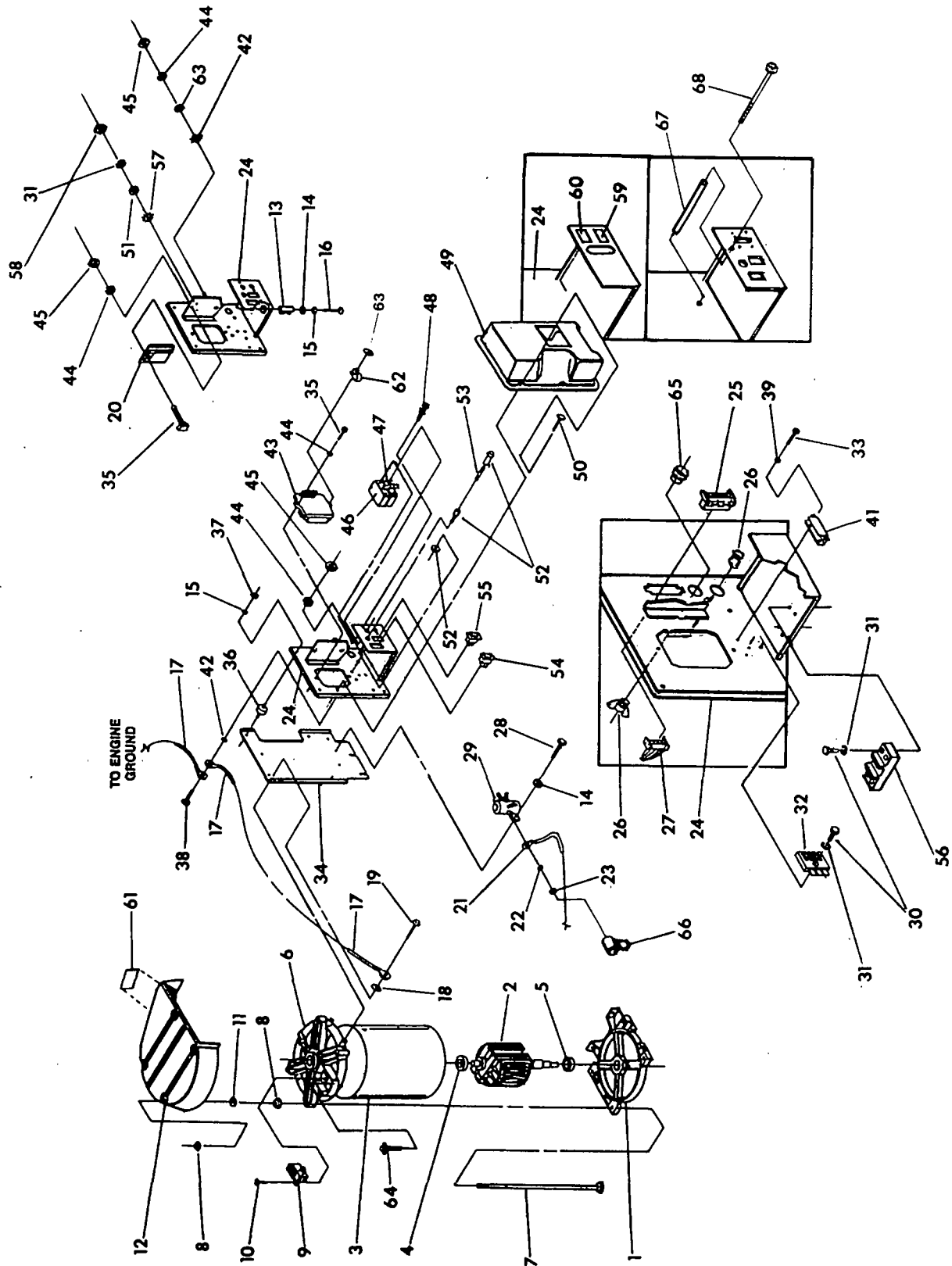
REPAIR PARTS — BASE AND PULLEYS

Drawing No. 91390

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	86318	1	Mounting Base	44	74958	1	Cap and Dipstick Assembly
2	90141	1	Ground Cable	45	67871	1	O-ring Cap
3	46911	4	Rubber Mount	46	75712	1	O-ring Drain
4	25017	8	3/8"-16 x 1/2" Capscrew	47	75711	1	O-ring Adaptor
5	46526	10	M10 Lock Washer	56	73179	1	Oil Filter Support
6	22129	2	M8 Lock Washer	57	70185	1	Oil Filter (FRAM PH #3614)
7	72391	2	Rubber Mount Skid	58	77667	1	Oil Pressure Switch
8	77603	2	5/16"-18 x 3-1/2" Bolt	59	74948	3	5/16" Fitting
9	22259	2	5/16-18 Hex Nut	60	74950	1	Outer Oil Tube
10	52858	6	M8-1.25 Flanged Lock Nut	61	74951	1	Inner Oil Tube
11	51730	2	M8-1.25 x 60mm Capscrew	62	73134	1	Oil Pad Adaptor
12	29459	2	Belt Tension Spring	63	38750	3	M6-1.00 x 30mm Capscrew
13	75215	2	Spring Center Washer	64	74949	1	5/16" 90-degree Fitting
14	73146	4	Nylon Slide	65	68548	1	Oil Pad Gasket
15	75209	2	Nylon Slide Support	66	62684	1	Grounding Lug
16	73174	1	Exhaust Manifold	67	29289	—	1/16" x 8' Foam Tape
17	79678	2	Exhaust Manifold Gasket	69	75281	1	High Temperature Switch
18	55173	4	M8-1.25 x 20mm Capscrew	70	74027	2	M3-0.5 Pan Head Screw
19	72383	2	Collector Pan Gasket	71	43182	2	M3 Lock Washer
20	90859	1	Cover Plate – External	73	75237	4	Spring Retainer Washer
21	75224-B	1	Engine Pulley	74	77681	1	LOS 2-wire Vinyl Cap
22	73106-B	1	Alternator Pulley	75	75474	1	17" x 42" x 2" Vinyl Cap
23	75216	1	40" Poly Vinyl 4L Belt	76	90800	1	Exhaust Elbow
24	49451	1	Pulley Retainer Washer	77	74907	1	1-1/8" Exhaust Clamp
25	42633	1	3/8"-24 x 1" Capscrew	78	75226	1	Air Cover
26	77017	1	Blower Housing Guide	79	56893	14	#10-24 x 1/2" Screw
27	73118	1	3/8"-24 x 2-1/2" Capscrew	80	75229	1	Slide Pan Gasket
28	74906	5	M6-1.00 x 20mm Screw	81	75227	1	Slide Pan
29	91123	1	Fuel Pump Bracket	82	79246	8	M6-1.0 x 16mm Capscrew with lock washer
30	72375	1	Blower Housing	83	22473	4	M6 Flat Washer
31	73185	1	Blower Housing Spacer	85	72384-C	1	Exhaust Outlet Cover
32	22097	6	M6 Lock Washer	87	77643	2	Exhaust Outlet Gasket
33	77682	1	M5-0.8 x 80mm Capscrew	88	86136	1	Sound Barrier Pad
34	75242	4	Generator Mounting Spring	90	22447	1	M6 Toothed Lock Washer
35	49813	2	M6-1.00 Hex Nut	91	90088	1	Vinyl Coated Clamp
36	45757	2	M6-1.0 x 25mm Capscrew	92	74908	10	M5-0.8 x 10mm Screw
37	90475	1	Fuel Pump	93	81105	2	5/16"-18 Flange Nut (special)
38	87769	1	Fuel Filter	94	23897	6	M5 Flat Washer
39	87768	1	1/8" Pipe to 1/4" Tube Fitting	95	67210	1	Decal – Ground
40	87770	1	Fuel Line	96	45756	9	M6 x 10mm Taptite Screw
42	26925	1	3/8" NPT Oil Drain	97	22131	1	M10 Flat Washer
43	75710-A	1	Oil Fill and Drain Tube				

EXPLODED VIEW — ALTERNATOR & PANEL

Drawing No. 92118



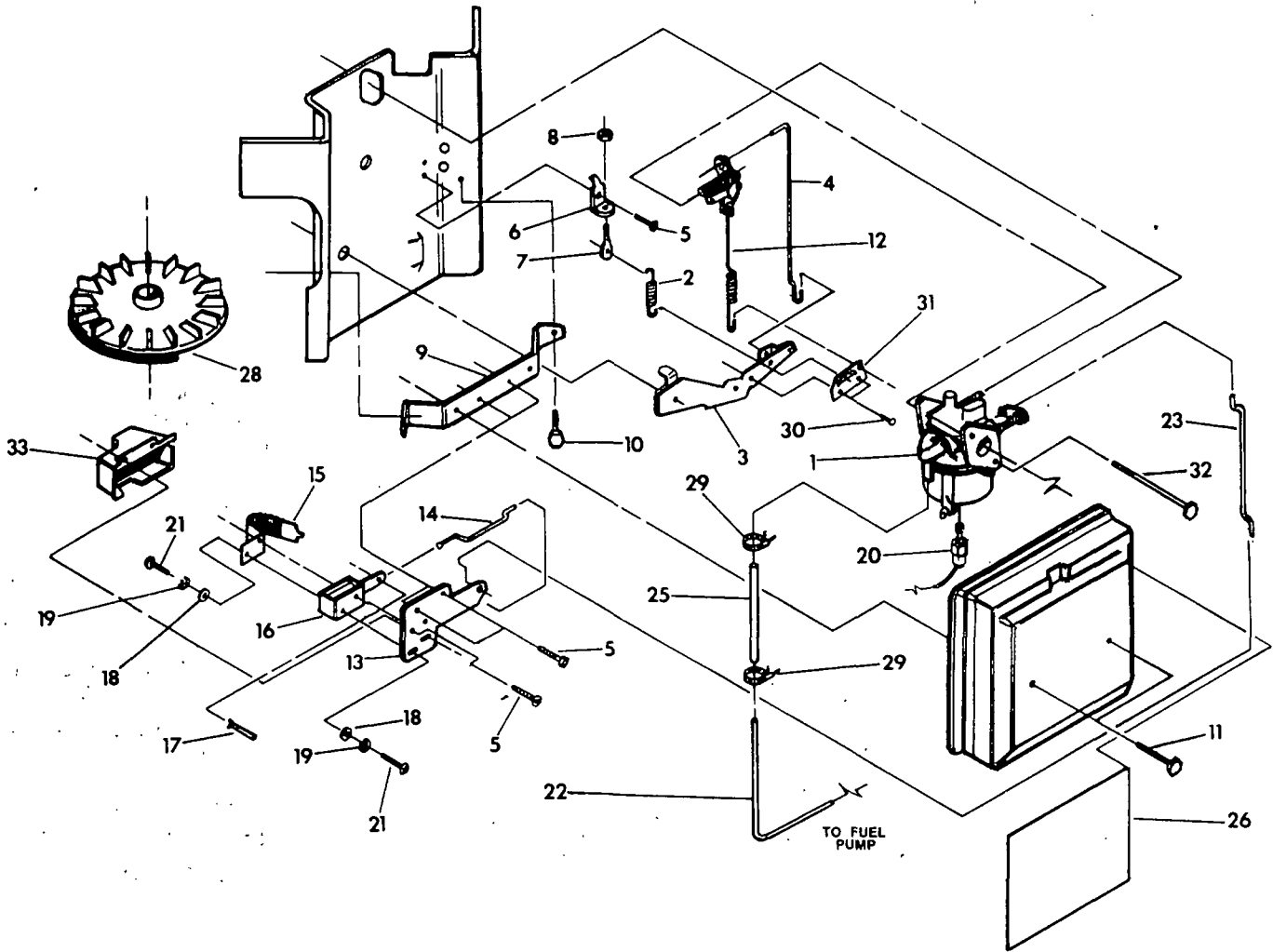
REPAIR PARTS — ALTERNATOR & PANEL

Drawing No. 92118

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	75995	1	Lower Bearing Carrier	36	82737	4	Vibration Mount
2	77005-G	1	Rotor Assembly Q-55G	37	49813	4	M6 Hex Nut
	80095-G	1	Rotor Assembly Q-70G	38	49815	1	M5-0.8 x 16mm Capscrew
3	87844-G	1	Stator Assembly Q-55G	39	43182	2	M3 Lock Washer
	87846-G	1	Stator Assembly Q-70G	41	53623	1	2.5A Circuit Breaker — Q-55G
4	73159	1	Ball Bearing		54502	1	3A Circuit Breaker — Q-70G
5	31971	1	Ball Bearing	42	67444	1	M5 Shakeproof Washer
6	72379	1	Upper Bearing Carrier	43	83049	1	Voltage Regulator
7	77006	4	Stator Stud	44	49226	6	M5 Lock Washer
8	52858	8	M8-1.25 Flange Lock Nut	45	51716	4	M5-0.80 Hex Nut
9	66386	1	Brush Holder	46	90144	1	20A Circuit Breaker — Q-55G
10	66849	2	M5-0.80 x 15mm		90145	1	30A Circuit Breaker — Q-70G
11	27756	4	Nylon Washer	47	90145	1	30A Circuit Breaker — all units
12	86314	1	Generator Top Housing	48	25105	4	No. 6-32 Screw w/lock washer
13	75234	1	Resistor	49	86315	1	Panel Cover
14	22473	3	Flat Washer	50	90734	4	M4-0.7 x 16mm Capscrew and Flat Washer
15	22097	5	M6 Lock washer	51	22985	1	M4 Flat Washer
16	74095	1	M6-1.00 x 60mm Capscrew	52	32300	1	Fuse Holder
17	90141	2	Ground Cable	53	22676	1	15 Amp Fuse
18	22447	1	Shakeproof Lock Washer	54	87798	1	Start/Stop Switch
19	74906	4	M6-1.00 x 20mm Screw	55	92113	1	Fuel Pump Switch
20	92234	1	Controller Circuit Board	56	75210-A	1	Terminal Block
21	10-74260	1	Starter Cable	57	23365	1	M4 Shakeproof Washer
22	22129	2	5/16" Lock Washer	58	51715	1	M4-0.7 Hex Nut
23	22259	2	5/16"-18 Hex Nut	59	90156	1	Decal — Circuit Breaker Rating
24	86316	1	Panel Sheet Metal				20 Amp
25	53650	1	4-pin Connector		90157	1	Decal — Circuit Breaker Rating
26	91915	1	Connector				30 Amp
27	75244	1	Remote Harness	60			NOT USED ON THIS UNIT
28	66476	2	M6-1.0 x 12mm Capscrew with lock washer	61	89438-A	1	Customer Connection Decal for Q-55G
29	56739	1	Starter Contactor		89438-B	1	Customer Connection Decal for Q-70G
30	75476	3	M4-0.7 x 16mm Capscrew				Hose Clamp
31	22264	4	M4 Lock Washer	62	31791	1	M5 Flat Washer
32	65795	1	Battery Charge Rectifier	63	23897	1	M5 x 10mm Tapite Screw
33	90987	2	M3-0.5 x 15mm Capscrew	64	74908	1	Bushing
34	86317	1	Panel Support Bracket	65	23484-S	1	Battery Cable Boot
35	75235	4	M5-0.8 x 30mm Capscrew	66	75763	1	

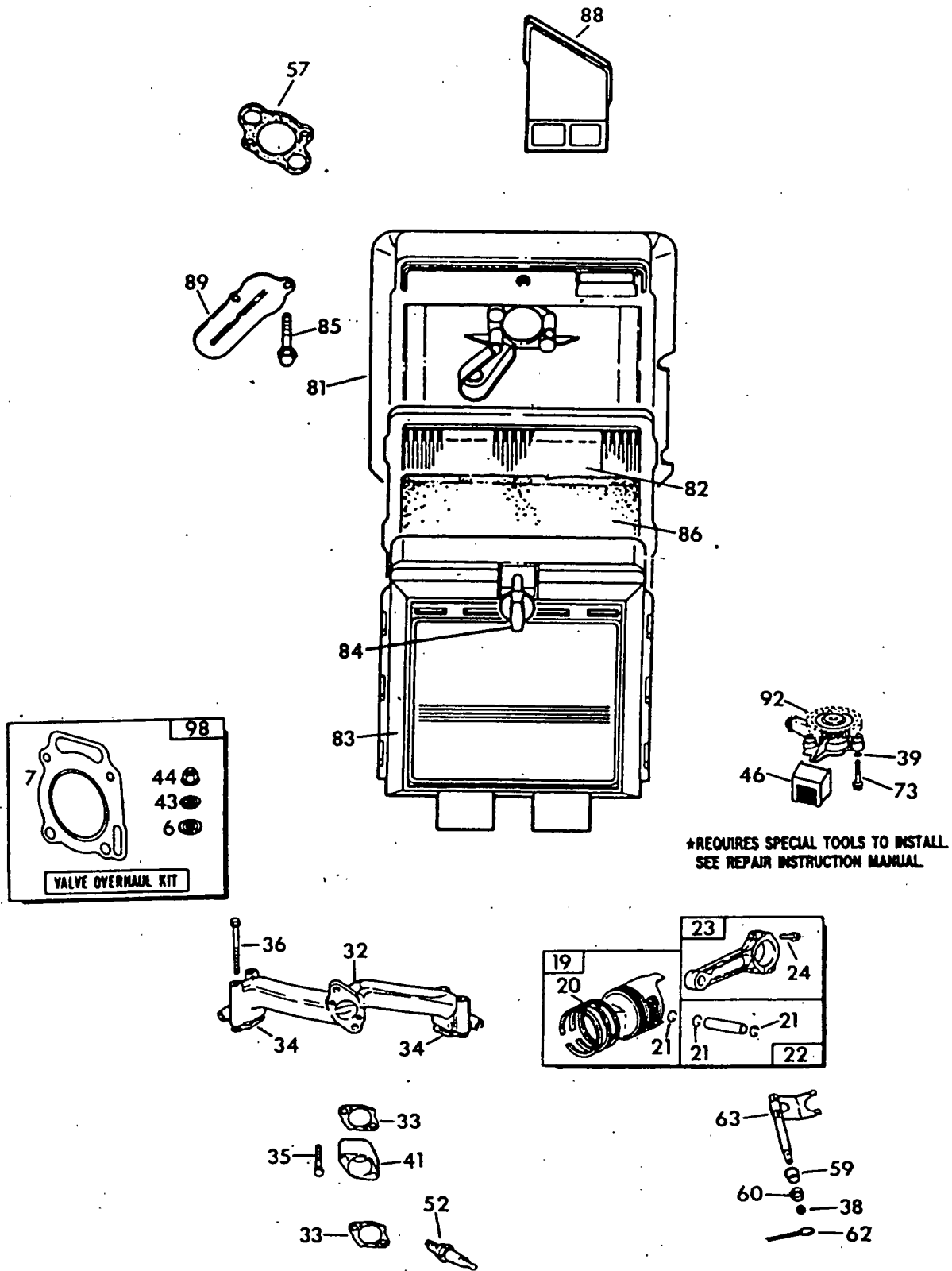
EXPLODED VIEW — CARBURETOR AND AIR CLEANER

Drawing No. 93753

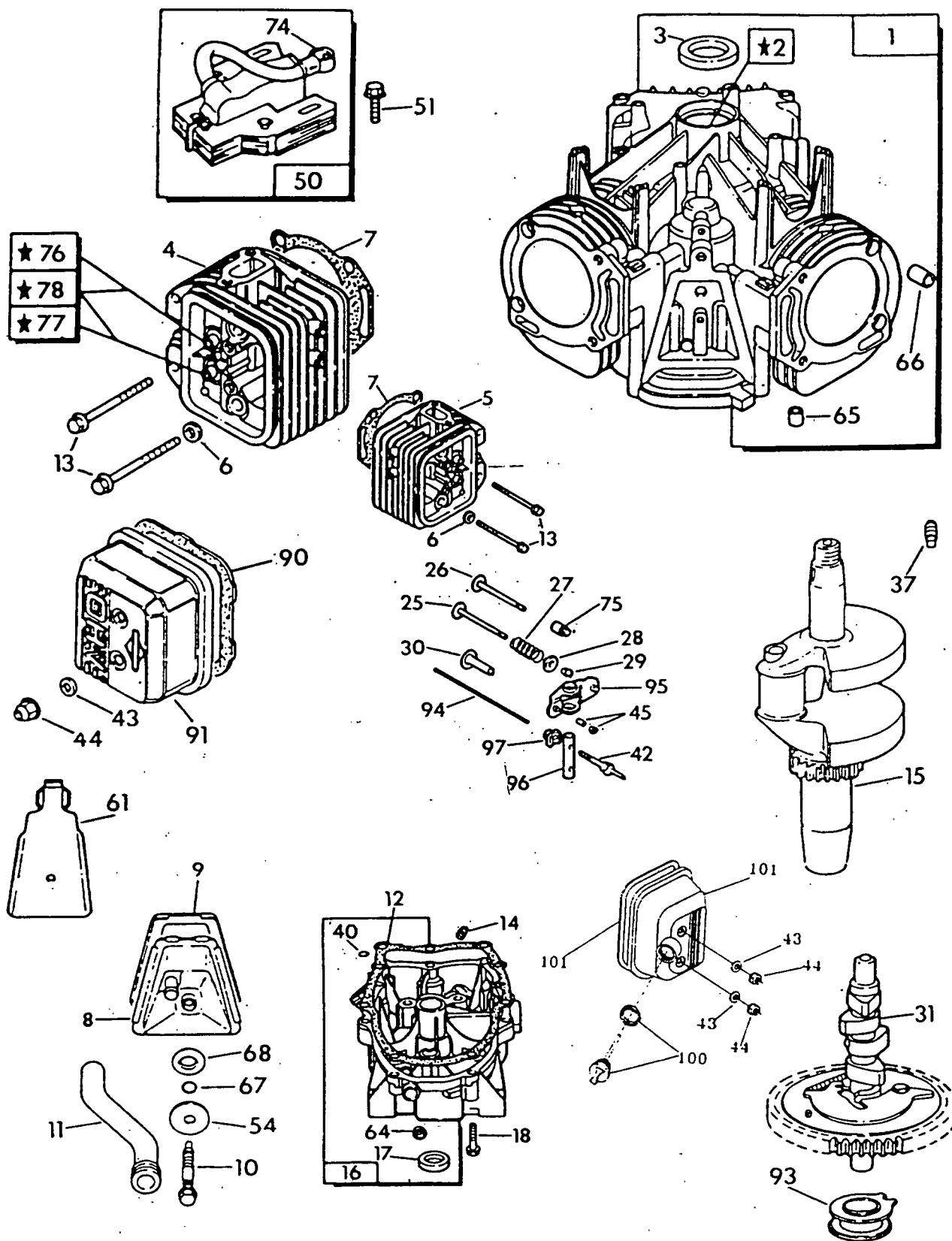


ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	73112B	1	Carburetor Assembly	18	31879	4	No. 4 Flat Washer
2	74962-C	1	Governor Spring	19	22159	4	No. 4 Lock Washer
3	70155	1	Governor Lever	20	89870	1	Fuel Solenoid Shutoff (Q70)
4	70108	1	Governor-to-Carburetor Rod	21	72536	2	No. 4-40 x 1/4" Screw
5	56893	5	No. 10-24 x 1/2" Screw	22	87770	1	5/16" dia. Fuel Line
6	74961	1	Governor Adjuster Bracket	23	74946	1	Choke Link
7	47227	1	Governor Adjuster Screw	25	47662-T	1	4-1/2" long Fuel Hose
8	37398	1	Hex Lock Nut (nylon)	26	91352	1	Air Cleaner Decal (Q55)
9	73131	1	Air Cleaner Support Bracket	27	91352-A	1	Air Cleaner Decal (Q70)
10	66476	2	M6-1.0 x 12mm Hex Screw	27	75252	1	Carburetor Overhaul Kit
11	70575	2	M6-1.0 x 25mm Hex Screw	28	73130	1	Flywheel Assembly
12	70125	1	Anti-Lash Spring	29	40173	2	Hose Clamp (screw type)
13	73374	1	Choke Support Bracket	30	66829	2	1/8" dia. x 1/8" long Rivet
14	74947	1	Choke Control Rod	31	75944	1	Governor Spring Bracket
15	89473	1	Bimetal Choke Assembly	32	70594	2	M6-1.0 x 93mm Capscrew with washer
16	91306	1	Choke Solenoid	33	77075	1	Choke Coil Cover
17	77091	1	Cotter Pin				

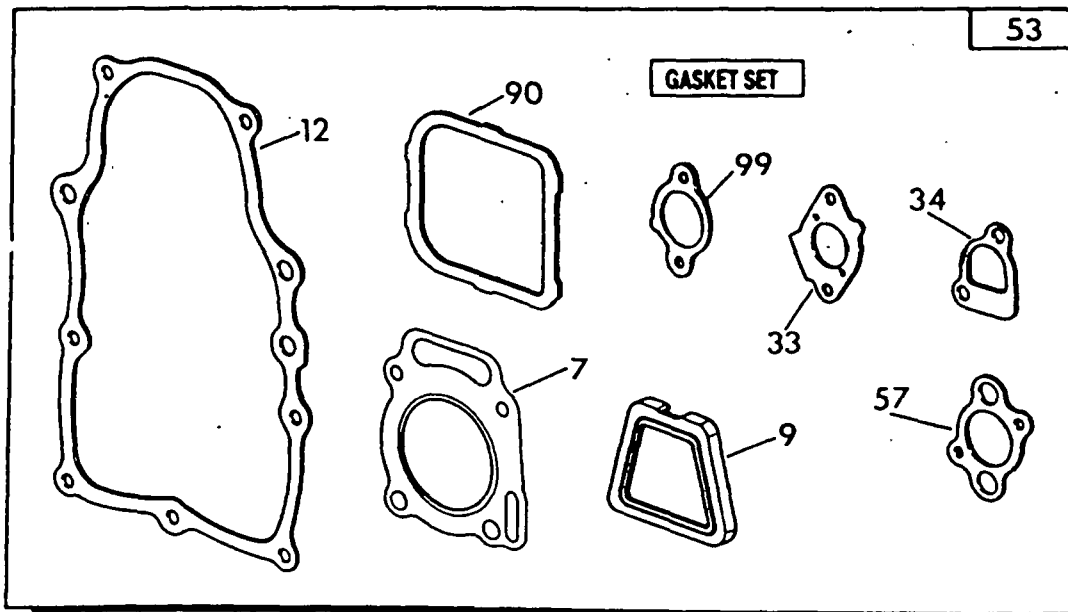
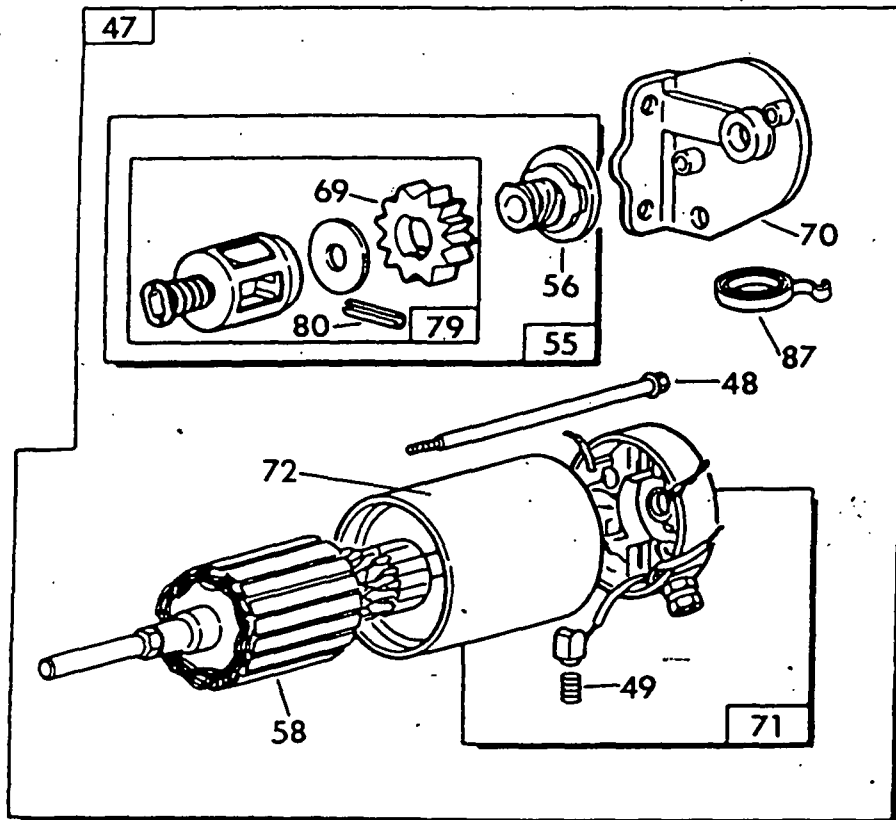
EXPLODED VIEW — ENGINE COMMON PARTS



EXPLODED VIEW — ENGINE COMMON PARTS



EXPLODED VIEW — ENGINE COMMON PARTS



REPAIR PARTS — GN-570 ENGINE

Drawing No. 89653

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	89962	1	Cylinder Assembly	49	75257	4	Brush Assembly
2	69333	1	Sleeve Bearing	50	67891	1	Ignition Armature Assembly
3	67805	1	Oil Seal	51	72536	2	Ignition Armature Screw
4	89963	1	No. 1 Cylinder Head Assembly	52	72347	2	Δ Spark Plug
5	89964	1	No. 2 Cylinder Head Assembly	53	75258	1	Engine Gasket Kit
6	70169	4	Sealing Washer	55	75260	1	Starter Drive Assembly
7	89965	2	Cylinder Head Gasket	56	75261	1	Clutch Assembly
8	89966	1	Breather Assembly	57	66480	1	Air Cleaner Gasket
9	72315	1	Breather Gasket	58	75269	1	Armature Assembly
10	89967	2	Breather Screw	59	72361	1	Governor Shaft Bushing
11	70596	1	Breather Tube	60	72362	1	Governor Shaft Bushing
12	69336	1	Oil Sump Gasket	61	70199	1	Breather Baffle
13	69325	8	Cylinder Head Bolt	62	72366	1	Cotter Pin
14	67888	2	3/8" NPT Oil Drain Plug	63	72367	1	Governor Fork
15	89968	1	Crank Shaft Assembly	64	72365	1	Governor Shaft Washer
16	75247	1	Oil Sump Assembly	65	68555	2	Crankcase Dowel
17	67924	1	Oil Seal Assembly	66	67806	4	Cylinder Head Dowel
18	67878	9	Oil Sump Bolt	68	75263	1	Breather Seal Screw
19	89969	2	Standard Piston Assembly	69	75264	1	Starter Gear
20	89970	2	Standard Piston Ring Set	70	75265	1	Starter End Cap Assembly
21	69327	4	Piston Locking Ring	71	75266	1	Commutator Cap Assembly
22	89971	2	Standard Piston Ring	72	75267	1	Starter Housing Assembly
23	89972	2	Connecting Rod Assembly	73	68572	2	Oil Pump Screw
24	72346	4	Connecting Rod Bolt	74	75272	2	Spark Plug Terminal
25	69316	2	Exhaust Valve	75	70122	2	Valve Stem Seal
26	69317	2	Intake Valve	76	67910	2	Intake Valve Seat
27	67816	4	Valve Spring	77	67911	2	Exhaust Valve Seat
28	69320	4	Valve Spring Retainer	78	67813	4	Valve Guide
29	70513	4	Valve Keeper	79	75268	1	Retainer and Pin
30	70584	4	Valve Tappet	80	75270	1	Roll Pin
31	70530	1	Camshaft Assembly	81	70592	1	Air Cleaner Base
32	72358	1	Intake Manifold	82	73123	1	Air Filter
33	69379	2	Carburetor Mounting Gasket	83	70593	1	Air Cleaner Cover
34	67895	2	Intake Manifold Gasket	84	72300	1	Air Cleaner Cover Screw
35	70594	2	Carburetor Mounting Bolt	85	67156	2	Air Cleaner Base Screw
36	67158	4	Intake Manifold Mounting Bolt	86	69341	1	Foam Pre-cleaner
37	68574	1	1/8" NPT Plug Pipe	87	490316	1	Brush Set Spring
38	68554	1	Governor Shaft Seal	88	70597	1	Air Inlet Tube
39	68573	1	Oil Pump O-ring	89	69358	1	Breather Deflector
40	70506	1	Oil Galley O-ring	90	67920	2	Valve Cover Gasket
41	70554	1	Carburetor Spacer	91	69328	2	Valve Cover
42	70568	4	Rocker Arm Stud	92	70547	1	Oil Pump Assembly
43	75253	4	Washer Valve Cover Seal	93	70536	1	Governor Slider
44	67885	4	M6 Nylon Nut	94	70577	4	Push Rod
45	75254	4	Valve Adjust Screw	95	70599	4	Rocker Arm Assembly
46	70535	1	Oil Screen	96	70567	2	Rocker Arm Shaft
47	75255	1	Starter Motor	97	70566	4	Rocker Arm Support
48	75256	2	Starter Motor Bolt	98	75271	1	Valve Overhaul Kit
				99	67897	2	Exhaust Gasket
				100	91481	1	Gasket and Cap Assembly
				101	91480	1	Rocker Arm and Cover

REPAIR PARTS LIST — GN-480 ENGINE

Drawing No. 79216

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	69331	1	Cylinder Assembly	51	72536	2	Ignition Armature Screw
2	69333	1	Sleeve Bearing	52	72347	2	R12YC Champion Spark Plug
3	67805	1	Oil Seal	53	75258	1	Engine Gasket Kit
4	79234	1	No. 1 Cylinder Head Assem.	54	75259	1	Breather Screw Washer
5	79235	1	No. 2 Cylinder Head Assem.	55	75260	1	Starter Drive Assembly
6	70169	4	Sealing Washer	56	75261	1	Clutch Assembly
7	69332	2	Cylinder Head Gasket	57	66480	1	Air Cleaner Gasket
8	72301	1	Breather Assembly	58	75269	1	Armature Assembly
9	72315	1	Breather Gasket	59	72361	1	Governor Shaft Bushing
10	70190	2	Breather Screw	60	72362	1	Governor Shaft Bushing
11	70596	1	Breather Tube	61	70199	1	Breather Baffle
12	69336	1	Oil Sump Gasket	62	72366	1	Cotter Pin
13	69325	8	Cylinder Head Bolt	63	72367	1	Governor Fork
14	67888	2	3/8" NPT Oil Drain Plug	64	72365	1	Governor Shaft Washer
15	72334	1	Crank Shaft Assembly	65	68555	2	Crankcase Dowel
16	75247	1	Oil Sump Assembly	66	67806	4	Cylinder Head Dowel
17	67924	1	Oil Seal Assembly	67	75262	1	Breather Seal Screw
18	67878	9	Oil Sump Bolt	68	75263	1	Breather Seal Screw
19	75248	2	Standard Piston Assembly	69	75264	1	Starter Gear
20	75249	2	Standard Piston Ring Set	70	75265	1	Starter End Cap Assembly
21	69327	4	Piston Locking Ring	71	75266	1	Commutator Cap Assembly
22	75250	2	Standard Piston Ring	72	75267	1	Starter Housing Assembly
23	75251	2	Connecting Rod Assembly	73	68572	2	Oil Pump Screw
24	72346	4	Connecting Rod Bolt	74	75272	2	Spark Plug Terminal
25	69316	2	Exhaust Valve	75	70122	2	Valve Stem Seal
26	69317	2	Intake Valve	76	67910	2	Intake Valve Seat
27	67816	4	Valve Spring	77	67911	2	Exhaust Valve Seat
28	69320	4	Valve Spring Retainer	78	67813	4	Valve Guide
29	70513	4	Valve Keeper	79	75268	1	Retainer and Pin
30	70584	4	Valve Tappet	80	75270	1	Roll Pin
31	70530	1	Camshaft Assembly	81	70592	1	Air Cleaner Base
32	72358	1	Intake Manifold	82	73123	1	Air Filter
33	69379	2	Carburetor Mounting Gasket	83	70593	1	Air Cleaner Cover
34	67895	2	Intake Manifold Gasket	84	72300	1	Air Cleaner Cover Screw
35	70594	2	Carburetor Mounting Bolt	85	67156	2	Air Cleaner Base Screw
36	67158	4	Intake Manifold Mounting Bolt	86	69341	1	Foam Pre-cleaner
37	68574	1	1/8" NPT Plug Pipe	87	80011	1	Brush Set Spring
38	68554	1	Governor Shaft Seal	88	70597	1	Air Inlet Tube
39	68573	1	Oil Pump O-ring	89	69358	1	Breather Deflector
40	70506	1	Oil Galley O-ring	90	67920	2	Valve Cover Gasket
41	70554	1	Carburetor Spacer	91	69328	2	Valve Cover
42	70568	4	Rocker Arm Stud	92	70547	1	Oil Pump Assembly
43	75253	4	Washer Valve Cover Seal	93	70536	1	Governor Slider
44	67885	4	M6 Nylon Nut	94	70577	4	Push Rod
45	75254	4	Valve Adjust Screw	95	70599	4	Rocker Arm Assembly
46	70535	1	Oil Screen	96	70567	2	Rocker Arm Shaft
47	75255	1	Starter Motor	97	70566	4	Rocker Arm Support
48	75256	2	Starter Motor Bolt	98	75271	1	Valve Overhaul Kit
49	75257	4	Brush Assembly	99	67897	2	Exhaust Gasket
50	67891	1	Ignition Armature Assembly	100	91481	1	Gasket and Cap Assembly
				101	91480	1	Rocker Arm Cover