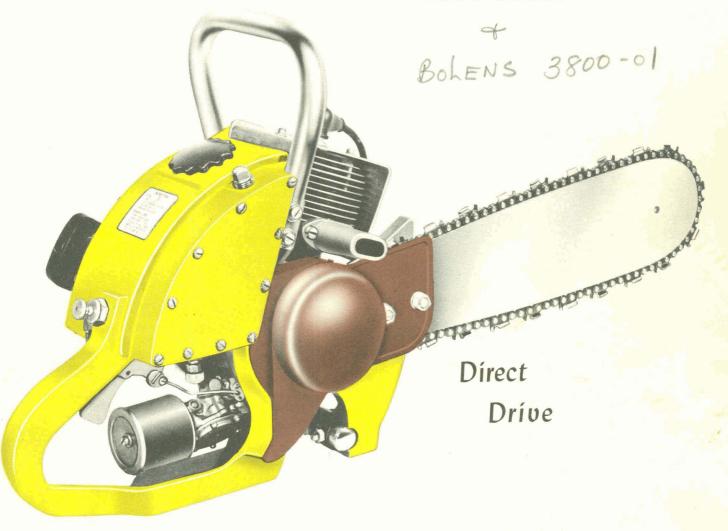
# Owner Manual with Parts List







# PROPULSION ENGINE CORPORATION

SUBSIDIARY OF FOOD MACHINERY AND CHEMICAL CORPORATION

311 Marion Ave., South Milwaukee, Wis.

Courtesy of ParkinLube.com

# INTRODUCTION

Your Chain Saw is precision built and specifically engineered. It has been carefully inspected throughout all phases of its production and assembled by men who are well trained in the production of fine air-cooled gasoline engines and equipment. Your Chain Saw is the finest that money can buy.

We suggest for continued successful operation of your Chain Saw that all service and major repair be handled through an authorized Dealer who is experienced in servicing the equipment and has the necessary parts on hand to give you prompt and efficient service.

# IMPORTANT INSTRUCTIONS

### SAFETY AND FIRE PRECAUTIONS

Do not start the engine in closed room, make sure there is ample ventilation.

Do not touch chain when engine is running, even at idle speed.

Keep engine adjusted to an idle speed, which stops chain completely.

Always stop engine when moving from one location to another.

During break-in period (5 hours) never run engine at top throttle unless under load.

Do not allow machine to run while it is resting on concrete floor.

A dull or improperly filed chain will cause the saw to buck and jump.

After refueling move machine a few feet to another location before starting engine again (Fire Precaution).

Keep saw clean of sawdust and inflammable material.

Keep spark plugs and wire connections tight.

### PREVENTIVE MAINTENANCE

Remove sawdust and dirt daily so that a thorough inspection of the chain saw can be made.

Tighten loose nuts and screws.

Make sure the fan screen is clean.

Check fuel and oil line connection for leaks.

Check air filter. If necessary, clean by rinsing in pure gasoline.

Check chain.

### NOTE

Do not use compressed air to remove sawdust from the outside of the carburetor. Be sure that cutting chain and guide bar are receiving sufficient lubrication. Check cutting chain for worn or loose rivets.

Chain Saws, as shipped from the factory, are precision-sharpened and ready for general purpose cutting. When you sharpen the chain, keep the same shape of the cutting edge.

TO OBTAIN THE GREATEST EFFICIENCY FROM THE CHAIN YOU MUST:

- 1. Keep the same cutting angle on all teeth.
- 2. Use the right size file or grinding stone.
- 3. Keep the side cutting edge vertical.
- 4. Shape in the top cutting edge correctly.
- 5. Keep all depth gauge clearances the same.

# WARRANTY

ALL CHAIN SAWS ARE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL AND WILL WITHOUT CHARGE BE REPAIRED OR REPLACED WHEN, UPON INSPECTION AT OUR FACTORY, THEY ARE FOUND DEFECTIVE. THIS GUARANTEE TO COVER MERCHANDISE WITHIN 30 DAYS FROM DATE OF PURCHASE.

THIS GUARANTEE DOES NOT OBLIGATE US WHERE EQUIPMENT HAS BEEN DAMAGED BY CARELESS HANDLING OR BY IMPROPER APPLICATION OR INSTALLATION. NO LIABILITY FOR CONSEQUENTIAL DAMAGES OF ANY KIND ARE ASSUMED BY THE COMPANY. THE PURCHASER BY ACCEPTANCE OF THIS EQUIPMENT, ASSUMES ALL LIABILITY FOR CONSEQUENCES OF ITS USE AND MISUSES BY PURCHASER, HIS EMPLOYEES OR OTHERS.

Courtesy of ParkinLube.com

This Owner Manual has been especially prepared to give you all the information needed to operate and maintain your chain saw with maximum efficiency. Read these instructions carefully before starting your saw because, regardless of previous experience, you will find new features in this CHAIN SAW never before included in other saws.

Before delivery to you, the Chain Saw has been carefully tested and inspected to assure you the high degree of performance and satisfaction built into it.

However, in order to maintain its standard of performance, this equipment requires a small but IM-PORTANT amount of attention on your part.

Always observe good operating procedure, make regular inspections, and perform lubrication and other maintenance services regularly as instructed in manual. By studying the manual carefully and following our operation and maintenance suggestions, you will be rewarded by long efficient service from your CHAIN SAW.

### CONSULT YOUR DEALER

In appointing dealers, consideration has been given to their ability to provide prompt and efficient service. We recommend that your local dealer be contacted for your service requirements. Your dealer also stocks the genuine factory replacement parts you may need, or through his close contact with the factory, can get them for you with minimum delay.

### REGISTER YOUR TYPE AND SERIAL NUMBER

Register your type number and serial number in the spaces provided below and always refer to them when writing for information or ordering parts. Complete the registration card received with the saw and return to the factory.

TYPE NO	
SERIAL NO	

### **SPECIFICATIONS**

Number of Cylinders One
Cooling Air
Bore 2 Inches
Stroke
Cycle Two
Fuel Oil and Gasoline Mixed
Spark Plug AC 45M or Equal
Point Gap
Ignition Timing 1/4 Inch before top dead center
Type of Valve Reed
Operating Speed
Carburetor

Type of Ignition High Tension Flywheel
Type of Starter Recoil
Chain Tension Device Positive Screw Type
Oiler Built-in Plunger Type
Type of Chain Chipper063 gauge
Cutting Capacities
Fuel Ratio $1/2$ pint of Outboard Motor Oil to
1 gal. of gasoline
Recommended GasolineRegular gasoline - 72-83
octane
Type of Clutch Automatic Centrifugal
Capacity of Chain Oiler Tank 1/2 pint

Capacity of Gas Tank . . . . . . . . . 1-1/4 quarts

# GENERAL INSTRUCTIONS

The Direct-Drive Chain Saws are available in lengths of 14", 20" and 24". Construction is of magnesium and aluminum casting plus a light weight engine resulting in a unit that will give rugged, heavy duty performance with minimum amount of effort on the part of the operator.

The special alloy steel guide bar is hardened throughout and nose is "hard welded" for longer life and smoother performance. Finger tip plunger assures proper lubrication of bar and chain during operation.

The chain saw is equipped with a diaphagm type carburetor which is superior to the float type in that it will not normally flood the unit. As it is a gravity feed type, the saw can be used in any cutting position that allows proper gasoline flow from tank to carburetor.

The handle and pistol grip design gives perfect balance to unit at all cutting angles.

## **ASSEMBLY**

The unit is shipped in two cartons, one containing the power head and the other the guide bar and chain.

Remove the clutch cover & bar clamp assembly covering the drive sprocket. Position the slot in guide bar over mounting studs. Place chain around drive sprocket and guide bar. Be sure the chain is installed with cutters facing forward on the top side of the guide bar and also that the chain is seated in the guide bar groove at all points.

Replace the clutch cover & bar clamp assembly and be certain the tip of the chain tightener assembly is seated in the hole in guide bar. Do not tighten nuts completely. The final chain tension adjustment is made by use of the adjusting screw on the front side of clutch cover & bar clamp assembly. When properly adjusted there should be from 3/16 to 1/4 inch sag at center of bar between the side links of the chain and the edge of the guide bar. Tighten nuts holding clutch cover & bar clamp assembly and then tighten chain adjusting screw. Chain tension is very important and should be watched carefully. Never tighten chain so tightly that it cannot be pulled freely around guide bar.

The cutting efficiency of your direct drive saw depends on proper filing of the chain. Keep the chain sharp.

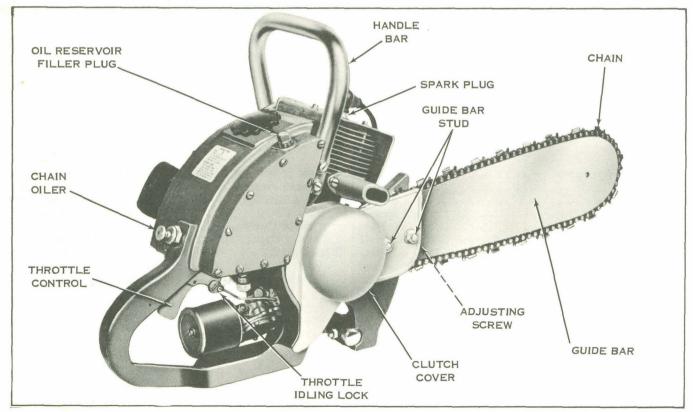


Figure 1. Chain Saw

### FUEL AND LUBRICATION

IMPORTANT: UNITS ARE SHIPPED WITH ENGINES COMPLETELY DRY SO FOLLOW INSTRUCTIONS CAREFULLY BEFORE STARTING ENGINE. The lubrication of the two cycle engine depends entirely on the oil mixed with the gasoline. The proper mixture is 1/2 pint of Outboard Motor Oil, to one gallon of gasoline. For the first few hours of operation it is recommended that a mixture of 3/4 pint of oil per gallon of gasoline be used. Be sure to mix gasoline and oil in a separate container. Do not pour unmixed gasoline or oil into engine fuel tank.

Fill the chain tank with #30 or heavier for use in warm or moderate temperatures and #10 in winter. In extreme cold weather or when working in pitchy wood a mixture of 4 parts of oil and one part of kerosene is recommended. Before using saw, press chain oiler plunger until a quantity of oil has entered the guide bar groove. During operation use oil pump plunger frequently to keep guide bar and chain adequately lubricated.

### STARTING ENGINE

For new units proceed as follows:

- 1. Put fuel in tank that is properly mixed as explained in previous instructions.
- 2. Open shut off valve below fuel tank.
- 3. Turn switch to ON position.
- 4. Move choke lever to choke position.
- 5. Turn throttle lock knob clockwise until trigger throttle locks.
- 6. Pull starter cord with quick snap pulls until engine fires.
- 7. Turn choke lever to open position and again pull starter cord. If engine fails to start, close choke for one pull of starter cord and again open choke and

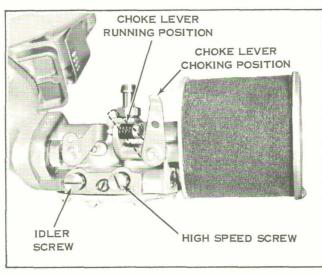


Figure 2. Carburetor

pull starter cord. When engine starts immediately press trigger to release throttle lock as engine should not be run at full throttle without load. It may be necessary to maneuver the choke lever from three to ten seconds while engine is warming so that it will idle satisfactorily.

### CARBURETOR ADJUSTMENT

The carburetor is adjusted when chain saw leaves the factory but if adjustment becomes necessary proceed as follows:

Turn idler screw and mixture screw clockwise until completely closed. Open idler screw 3/4 turn and mixture screw 1-1/4 turns. Start engine and when warm adjust idler screw so that engine idles smoothly at no throttle. Next make a test cut and adjust mixture screw so that engine will not stall under full load. Be sure the bar and chain are properly oiled and that engine is at maximum speed before starting cut. Finally check engine for quick acceleration and if necessary slightly increase opening of mixture screw.

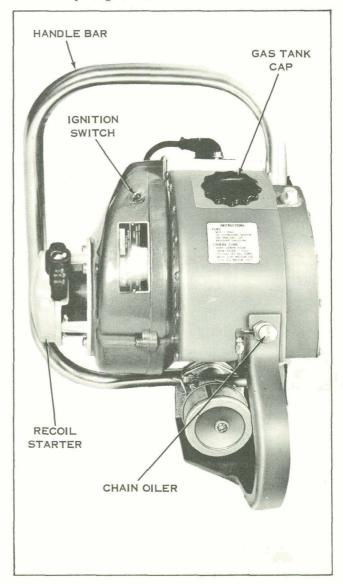


Figure 3.

# CARBURETOR TROUBLE CHART

TROUBLE	POSSIBLE CAUSE	REMEDY
CARBURETOR FLOODS	Dirt or foreign particles pre- venting inlet needle from seating	Remove, clean and replace
	Diaphragm lever spring not seated on lever dimple	Remove lever and reinstall
	Diaphragm distorted and inter- fering with the lever operation	Replace diaphragm
ENGINE WILL NOT ACCELERATE	Idle adjusting screw set too lean	Enrich idle adjustment
	Incorrect setting on diaphragm lever	Reset
	Inlet needle binding	Remove, clean and replace
	Diaphragm cover plate loose	Tighten
	Diaphragm gasket leaking	Replace
	Main fuel orifice plugged	Remove diaphragm cover, diaphragm, diaphragm lever and main adjusting screw. Clean out orifice by blowing through main adjustment threaded hole
ENGINE WILL NOT IDLE	Incorrect idle adjustment	Reset to best idle
	Idle discharge ports or channels clogged	Blow out with clean compressed air or if compressed air is not available clean and flush with gasoline
	Diaphragm lever set incorrectly	Reset diaphragm lever so it is flush with the floor of the dia- phragm chamber
	Throttle shutter cocked in the throttle bore	Reset; this condition caused in an excessively fast idle
ENGINE RUNS OUT LEAN IN	Tank vent not operating correctly	Clean or replace
601	Leak in fuel system from tank to pump	Tighten or replace fittings or line
	Ruptured fuel pump diaphragm	Replace
	Main fuel orifice plugged	Clean
CARBURETOR RUNS RICH WITH MAIN ADJUSTMENT SHUT OFF	The 1/8" diameter nozzle channel plug is not sealing	Install new plug
NOTE: In making carburetor adjustinto seats.	tments turn adjustments carefully ar	nd gently - do not ram adjustments

To get top efficiency from your direct drive saw the chain must be kept in top condition. A dull chain produces a rough action and causes chain to bind in the cut. This action loosens the teeth and rivets of the chain and causes excessive wear of groove in guide bar.

The chain is sharpened best by removing it from the saw and sharpening in a filing vise designed for the job. Several acceptable models are on the market.

File the cutting angle exactly the same on all cutting teeth,  $35^{\circ}$ , using a 7/32 inch round chain saw file. This will insure maintaining the correct shape of the cutting teeth. Keep the file horizontal and use firm

strokes, applying pressure only on the forward stroke.

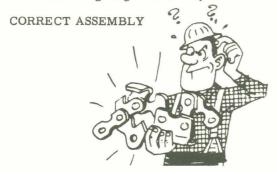
If it is necessary or expedient to file chain on the guide bar be sure to take the following precautions:

- 1. When clamping the guide bar in a bench vise take care that you do not pinch the guide bar groove.
- 2. After filing the chain on the guide bar, slacken chain and run free with a surplus of chain oil to flush out filings.

The performance and life of any chain depends upon how well it is maintained. If the filing is 50% below standard, the performance will be 50% below standard. If the filing is up to standard but the chain is being run under adverse conditions which include, for example, a bad sprocket, shallow bar channel, lack of lubrication, the life of the chain will be shortened.

In replacing damaged cutters be sure they are correct as to right or left. When peening the rivets, do not strike too hard as this will bulge the large diameter of rivet and cause chain to bind. Always check chain for flexibility after repair.

CHAIN, BAR AND SPROCKET MAINTENANCE TIPS\* The following are some of the points to look for when a chain is not giving satisfactory service.



Check the parts assembly. Frequently, the user will install the wrong parts when he repairs his chain.

- 1. See that parts have not been installed backwards.
- 2. See that all parts are correct size and pitch. Sometimes a 7/16 inch pitch chain will be repaired with 1/2 inch parts.
- 3. Tight joints. If the rivet has been struck too hard, the center hub will be broken, resulting in a tight joint.
- 4. Discourage the installation of used parts in chain repair. For example, if a used rivet is placed in a chain, it may break off, and a piece of the rivet head or spindle will become lodged between the tie strap, or cutter and drive link. A tight joint results.

# "SOFT" CHAIN

If the chain will not hold an edge, look for these faults:

1. When the file has been held too low, the top plate will be feathered, or filed too thin. The cutting edge will then break off and quickly become dull.



- 2. If the file is held too high, the result is a blunt cutting edge on the front of the top plate. In effect, the chain has not been sharpened at all.
- 3. Incorrect setting of depth gauges or "stops." Depth gauges should be adjusted to the power of the saw and the type of wood being cut. If they are too high, the cutter will not perform, and will become rounded no matter how frequently the chain is sharpened. Adjust the depth gauges downward as the cutters are filed. For Hi-Speed .030 .035 and Low-Speed .035 .040 will give best all-around performance.
- 4. If the chain has been run in rocks, gravel, or grit, some of the chrome may have been knocked off the cutting edges. Rapid cutter wear will result if the chain is operated under these conditions.
- 5. The front angle of the top plate on both right and left hand cutters should be approximately the same. If not, the cutters on one side will be doing most of the work and the chain will lead off to that side.

EXCESSIVE SPROCKET WEAR



An excessively tight chain or a chain being out of pitch will cause undue sprocket wear.

- 1. Do not put a new chain on a worn sprocket.
- 2. Do not put an out-of-pitch chain on a new sprocket.

DRIVE LINK BREAKAGE



Breakage in a chain generally occurs in drive links. The following factors contribute to this condition:

- 1. Chain has been run on a bar with a shallow groove or a worn rail. This causes excessive chain chatter which produces heat and strain on the drive links.
- 2. Improper depth gauge setting. To reduce chain chatter, depth gauges should be set uniformly at the correct height. For example, ten depth gauges in a row set at .035 inch below the cutters, followed by one set at 0.60 inch, will result in chatter and undue strain on the latter. In such a case, all depth gauges should be set at .035 inch.
- 3. Drive links striking the back or motor mount end of the saw bar, or at any other point, will produce undue strain or breakage.

### EXCESSIVE STRETCH



More than 1/4 inch stretch to the lineal foot of chain will change chain pitch so much that the chain cannot be used satisfactorily. The following are causes of "stretch."

- 1. The chain has been run too tight on the bar.
- 2. Sufficient lubricant has not been applied to the chain during operation.
- 3. Depth gauges have not been properly set, resulting in excessive chatter.
- 4. Faulty bar. When drive links strike any portion of the mounting end, the tang or point of the drive link will be broken or rounded off. This permits sawdust to build up in the bar channel and produces excessive stretch by tightening the chain.

# DEFECTIVE BARS



Some causes of poor chain performance and short chain life, resulting from defective bars, follow.

- 1. The bottom of the drive links riding on the bottom of the bar channel. This prevents the chain from being seated properly. Many bars have shallow grooves all the way around. Some are shallow only on the mounting end or at the nose of the bar. Either bar condition is undesirable.
- 2. Faulty bar groove is usually caused by the thinner of the two rails leaning out, resulting in improper support for the chain.
- 3. Defective chain entry at the motor mount end of the bar causes excessive wear and breakage of the drive links.

### SPARK PLUG

The spark plug should be checked periodically. A fouled plug causes starting trouble and poor operation. The plug should be cleaned and points set at .028 to .032 inch. If there is any doubt as to the condition of the plug it should be replaced.

### AIR FILTER

Air filter is the dry type and normally needs little attention. If the saw is used in a dusty atmosphere the filter element should be removed and cleaned with air or brush.

# MUFFLER AND EXHAUST PORTS

The exhaust ports should be cleaned approximately every 50 hours of operation. Failure to do this may result in loss of engine power. Remove the spark plug and muffler and turn engine so piston is at the bottom of the stroke. With a blunt instrument scrape carbon from exhaust holes and surrounding chamber. Pull starter cord several times to blow out loose carbon and replace plug and muffler.

# CLUTCH

The saw is designed with an automatic clutch which requires no adjustment. If the chain creeps when engine is idling, adjustment should be made on the carburetor idler control.

### ENGINE FAILURE

If engine fails to start, check fuel supply, shut-off valve and gas line.  $\,$ 

Test spark by removing wire from plug, hold wire approximately 3/16 inch from plug and pull starter cord. If spark fails to jump gap it is due to faulty points, coil or condenser. If there is spark, remove plug, attach wire and again pull starter cord to check spark at plug points. If necessary clean and reset plug points.

Keep engine shroud and cylinder clean as restricted air flow may cause engine to overheat.

YM

# MAGNETO

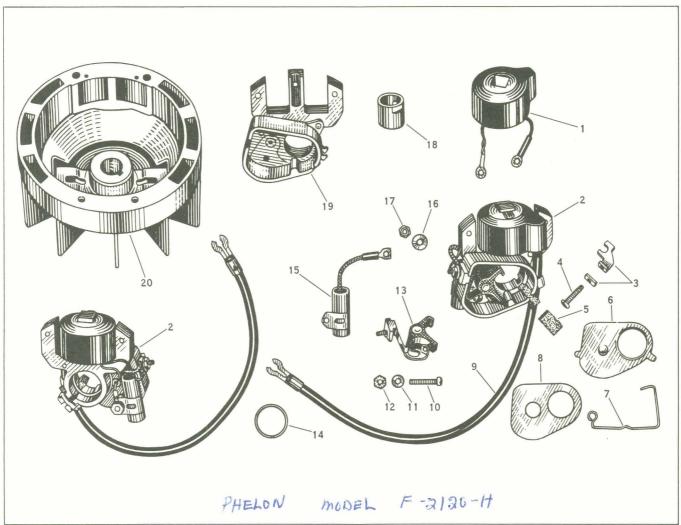


Figure 3 USE PAGE 38 PHELON MANUAL

Ref.	Part No.	Description	No. Req'd.
1 2 3 4 5 6 7 8	1707048 1707050 1707051 1707052	Complete Stator Assembly Core Clamp Assembly Screw 8-32 x 1	1 1 1 1 1 1 1
9 10	1707054	Lead Wire Screw 8-32 x 1	1 1
			_

Ref. No.	Part No.	Description	No. Req'd.
11		Washer No. 8	1
12		Nut 8-32	1
13	1707056	Breaker Assembly	1
14	1707057	Spacing Ring	1
15	1707058	Condenser	1
16	1707049	Terminal Washer	1
17	1707055	Terminal Nut	1
18	1707125	Cam 9_	1
19	1707060	Core and Box	1
20	1709732	Flywheel	1

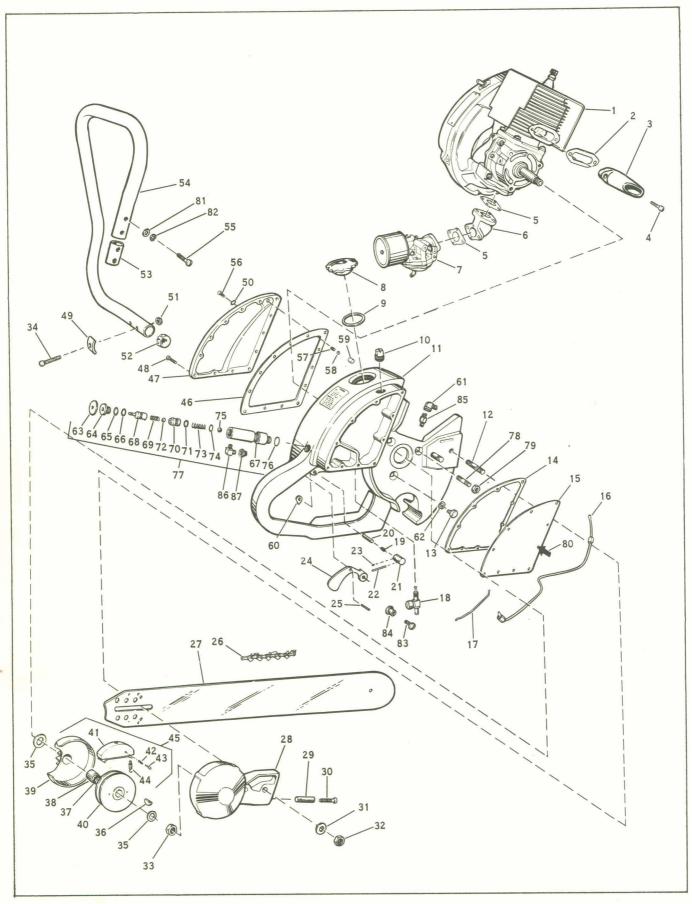
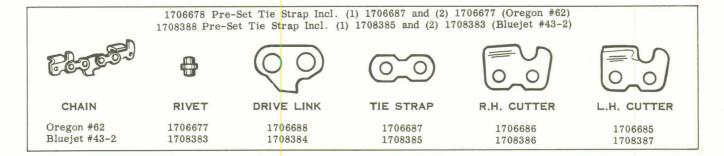


Figure 4

				1				
Ref	. Part		No.		Ref.	Part		No.
No	No.	Description	'Req'd.		No.	No.	Description	Req'd.
1		Engine AH47 Type 1129	1		42	1707108	Spring	2
	1		i		43	1707107		2
2		Muffler Gasket						2
3		Muffler	1 2		44	1709667	Spring	4
4	1	Screw 1/2-20 x 3/4			45	1709262	Clutch Assembly (Incl.	
5	1707131		2				40 thru 44)	1
6		Adapter	1		46	1706664		1
7		Carburetor (See Fig. 6)			47		Gas Tank Cover	1
8		Fuel Cap	1		48		Screw	8
'9	1706675		1		49	Contraction of the Property of	Handle Clamp	2
10	1706566	Filler Plug	1		50	1187146	Lockwasher	2 5 2
11	1706654	Main Frame	1		51		Lock Nut 1/4-20	
12	1706522	Stud	2		52	1706585	Button Plug	1
13	1706573	Screw	2		53	1706534	Front Handle Plug	1
14	1706665	Gasket	1		54	1706666	Handle	1
15		Cover Plate	1	-	55	1114474		2
16		Oil Line Assembly	1	-	56	1100139	Flat Hd Screw	5
17		Throttle Link	1		57		Check Valve Plug	1
18		Shut Off Valve	1		58		Check Ball	1
19		Lever Lock Spring	1		59		Check Valve Body	1
20		Drive Pin	1		60		Throttle Lever Lock	1
21		Lock Lever	ı		61	1106511	The state of the s	1
22		Drive Pin	1	-		I was been been been been been been been bee	Lockwasher	2
23	20 000 200 000 00 00	The second secon	1	_	63	The second second second	Oiler Button	1
24	Am controlled solver the	Throttle Lever	1	_	64		Oiler Cap	1
25		Drive Pin	1		65	1707894		1
40		Chain 14'' (Oregon #62)	1		66	The state of the s	"O" Ring	1
26		Chain 20" (Oregon #62)	1		67		Oiler Body	1
40			1		68	1707888		i
		Chain 24" (Oregon #62)	1		69			1
0.0	1708429	Chain 14" (Blue Jet #43-2)	1		1.25	1707893		1
26	1708390	Chain 20" (Blue Jet #43-2)			70	1707890	Page 100 AGE 200 AGE 400	
		Chain 24" (Blue Jet #43-2)	1		71		"O" Ring	1
	Toronto Carrier Control Providence Control	Guide Bar 14"	1		72		Check Ball	1
27	The second secon	Guide Bar 20''	1		73	1707892		1
	The second section and	Guide Bar 24''	1		74	1707891		1
28		Clutch Cover	1		75	The second second second	Check Ball	1
29	1708437	Chain Tightener	1		76		"O" Ring	1
30	The same and the same and		1		77	1707671	Oil Pump Assembly (Incl.	
31		Lockwasher	2				63 thru 76)	1
32	1109529	Hex Nut 3/8-24	2		78	1707210	Stud	1
33	1110151	Lock Nut 7/16-20	1		79	1185399	Lock Nut	1
34	1114479	Screw	2	_	80	1185292	Screw	10
35	1709312	Washer	2	-	81	1107381	Washer	2
36		Woodruff Key	1		82	1100241	Lockwasher	2
37	1706663	Thrust Washer	1	_	83	1110597	Rd Hd Screw	1
38		Bearing	1		84	1706672	Wire Fitting	1
39		Sprocket and Drum Assy.	1	-	85		Straight Adapter	1
40		Clutch Plate	1		86		Connector Elbow	1
41	The state of the s		2		87	1185356	Compression Nut	1
1				1	1	1	The state of the s	



# REWIND STARTER

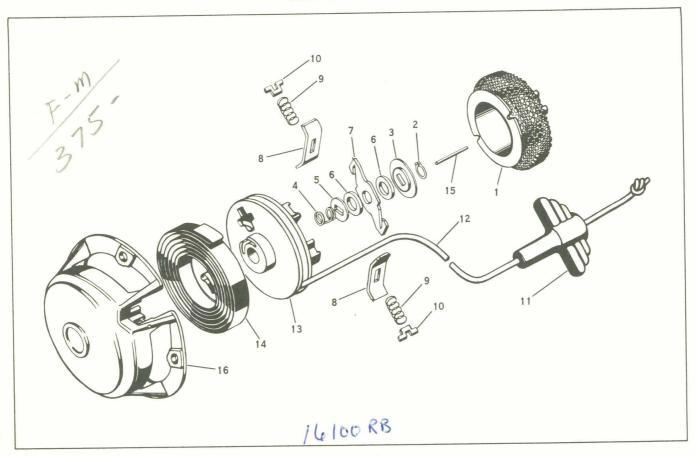


Figure 5

Ref. No.	Part No.	Description	No. Req'd.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	1709949 1709662 1709661 1704364 1704365 1704366 1704367 1704368 1704370 1704612 1709658 1709657 1709655 1709655 1704828 1709654	Cup and Screen Assembly Retainer Ring Brake Retainer Washer Brake Spring Brake Washer Fibre Washer Brake Lever Friction Shoe Plate Friction Shoe Spring Spring Retainer Plate Handle Cord Rotor Rewind Spring Centering Pin	1 1 1 1 2 1 2 2 2 2 1 1 1 1

14-85 CUP, 56442 SCREPN

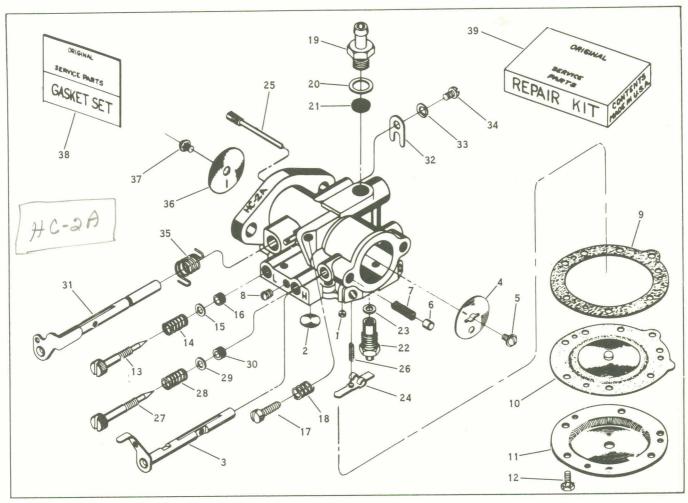


Figure 6

Ref.

No.

Part

No.

Ref. No.	Part No.	Description	No. Req'd.
*1	1707063	Body Channel Cup Plug	1
*2	1707064	Body Channel Welch Plug	1
3	1707065	Choke Shaft and Lever	1
4	1707066	Choke Shutter	1
5	1707067	Choke Shutter Screw and	
		Lockwasher	1
6	1707068	Choke Friction Pin	1
7	1707069	Choke Friction Pin Spring	1
8	1707070	Diaphragm Chamber Drain	
		Screw	1
9	1707072	Diaphragm Gasket 🗸	1
*10	1707071	Diaphragm	1
11			1
12	1709992		
		. /	6
			1
*14	1709959		-
			1
			1
16	1709961		
			1
	and the second second		1
*18	1707086	Idle Speed Regulating Spring	1
	*1 *2 3 4 5 6 7 8 9 *10 11	No. No.  *1 1707063 *2 1707064 3 1707065 4 1707066 5 1707067 6 1707068 7 1707069 8 1707070 9 1707070 *10 1707071 11 1709957 12 1709992 *13 1709958 *14 1709960 16 1709961 *17 1707085	No.         Description           *1         1707063         Body Channel Cup Plug           *2         1707064         Body Channel Welch Plug           3         1707065         Choke Shaft and Lever           4         1707066         Choke Shutter           5         1707067         Choke Shutter Screw and Lockwasher           6         1707068         Choke Friction Pin           7         1707069         Choke Friction Pin Spring           8         1707070         Diaphragm Chamber Drain Screw           9         1707072         Diaphragm Gasket           *10         1707071         Diaphragm Cover Plate           11         1709957         Diaphragm Cover Retaining Screw           *13         1709958         Idle Adjustment Screw Spring           *14         1709959         Idle Adjustment Screw Washer           *16         1709961         Idle Adjustment Screw Packing           *17         1707085         Idle Speed Regulating Screw

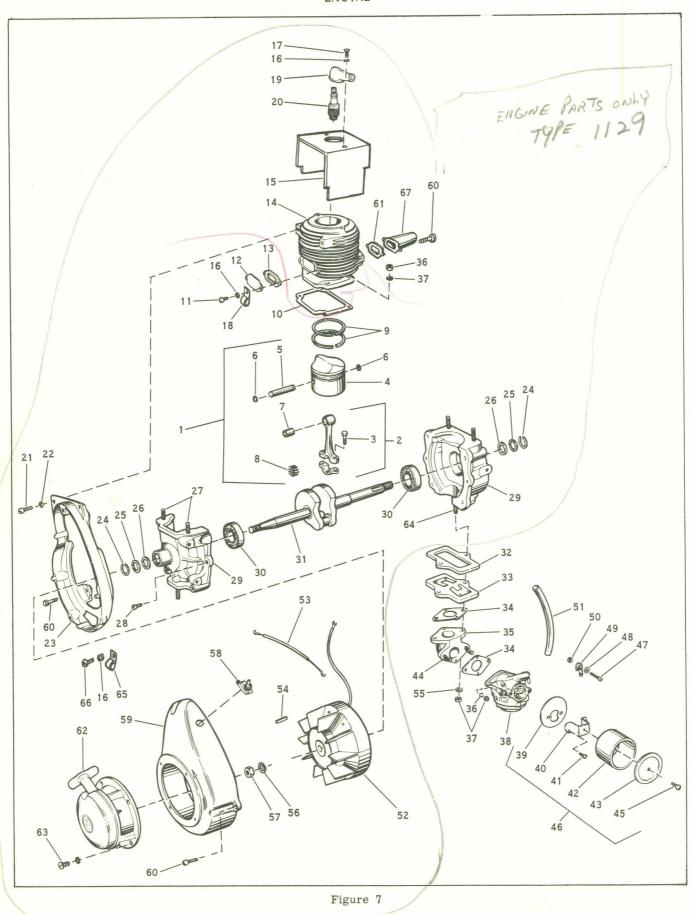
		•	-
19	1709962	Inlet Connection	1
20	1707157	Inlet Connection Gasket	1
*21	1709963	Inlet Screen	1
*22	1709964	Inlet Needle, Seat & Gasket /	1
23	1707088	Inlet Seat Gasket	1
*24	1707089	Inlet Control Lever	1
*25	1707090	Inlet Control Lever Pinion	
		Screw	1
*26	1707091	Inlet Tension Spring	1
*27	1709965	Main Adjustment Screw	1
28	1709959	Main Adjustment Screw Spring	1
29	1709960	Main Adj. Screw Washer	1
30	1709961	Main Adj. Screw Packing	1
31	1709968	Throttle Shaft and Lever	1
32	1707096	Throttle Shaft Clip	1
33		Lockwasher, No. 8	1
34	1707097	Throttle Shaft Clip	
		Retaining Screw	1
*35	1707098	Throttle Shaft Return Spring	1
36	1707099	Throttle Shutter	1
*37	1707100	Throttle Shutter Screw and	
		Lockwasher	1
*38	1709969	Gasket and Packing Set	1
30	1709970	Renair Darts Kit	1

Description

No.

Req'd.

<sup>(\*)</sup> Indicates contents of Repair Parts Kit



Re		Part		No.
No	0.	No.	Description	Req'd.
	1	1709711	Rod & Piston Assy.	1
	2	1709712	Connecting Rod	1
	3	1709713	Connecting Rod Screw	2
	4	1709714	Piston	1
	5	1709715	Piston Pin	1
	6	1709716	Retaining Ring	2
	7	1709717	Cartridge Bearing	
	8	1707008	Needle Bearing	1
	9	1707009	Piston Ring Set	1
1	0	1707010	Cylinder Gasket	1
1	1		Screw, No. 10-24 x 5/8"	2
1	2		Transfer Port Cover	1
1	3		Port Cover Gasket	1
1	4	1709719	Cylinder	- 1
1	5	1707112	Cylinder Shroud	1
1	6		Flat Washer, No. 10	2 2
1	7		Screw, No. 10-24 x 5/8"	2
1	8	1707030	Cable Clip	1
7.0	9	1709720	Spark Plug Cover	1
	0	1707017	Spark Plug	1
2	1		Screw, 1/4-20 x 7/8"	2 2
2	2		Flat Washer, 1/4	2
	3		Shroud Base	1
1 -	4		Retainer Spring	2
1 -	5		Seal Retainer	2 2
1	6	1707021		2
1	7	1707016	Cylinder Stud	4
2	18		Screw, No. 10-24 x 3/4"	6
2	9	1709722	Crankcase Assy. w/Brgs.	1
1	(	1709721		1
	0	1709723	Ball Bearing	2
	1	inches a market	Crankshaft	1
1 -	2		Reed Plate Gasket	1
3	3	1707132	Reed Plate Assembly	1

	Ref. No.	Part No.	Description	No. Req'd.
	34		Carburetor Gasket	2
١	35	1709947		1
	36		Lockwasher, 1/4	2
	37		Nut, 1/4-20	2
	38		Carburetor (See Fig. 6)	1
	39	and the contract of	Air Filter Base	1
1	40	1707044	Air Filter Bracket	1
1	41		Screw, No. 10-32 x 7/16"	2
5		1709731	Air Filter Body	1
	43	1707043	Air Filter Cover	1
1	44	1709941	Adapter Elbow Stud	2
	45		Screw, No. 10-24 x 1"	1
	46	1709948	Air Filter Assembly	1
	47	-	Screw, No. 10-32 x 3/4"	1
	48		Flat Washer, No. 10	1
	49	1709726	Clamp-on Lever	1
1	50		Nut, No. 10-32	1
,	51	1709943	Fuel Line	1
	52		Magneto (See Fig. 3)	1
	53	I MAN IN COLOR OF CASE	Cut-off Wire	1
	54	1707027	Flywheel Key	1
	55		Lockwasher, 1/4	2
	56		Washer, 7/16 Shakeproof	1
	57		Nut, 7/16-20 L.H. THRD	1
	58		Switch	1
1	59	1707123	Air Shroud	1
	60		Screw, 1/4-20 x 3/4"	3
	61		Muffler Gasket	1
	62	1709938	Rewind Starter (See Fig. 5)	1
	63		Screw, 1/4-20 x 1/2"	5
1	64	The second second	Carburetor Stud	2
	65	1709730	Cable Clip	1
	66		Screw, No. 10-24 x 3/8"	1
	67	1709942	Muffler	1



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