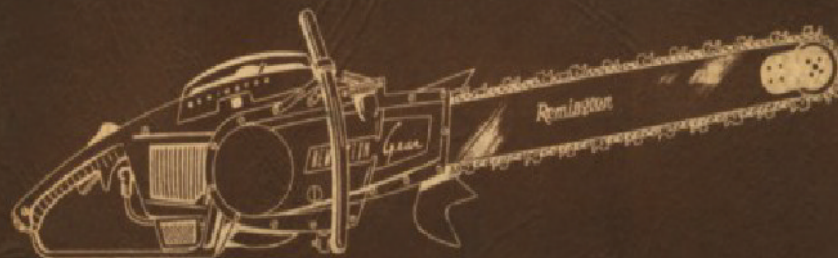


*Remington*

*Bantam G*



**INSTRUCTIONS  
AND SERVICE MANUAL**

**REMINGTON ARMS COMPANY INC.  
PARK FOREST . . . . . ILLINOIS**

# SAFETY FIRST

1. Never operate your chain saw in an unventilated room.
2. Keep all parts of the body away from moving, cutting chain.
3. Always shut off engine when carrying saw from one location to another.
4. Do not touch chain at any time with engine running.
5. In all cutting operations, be positive that you have a clear area in which to work, a secure place to stand, and a safe "get away" position to move to when felling.
6. When making a cut, run engine until chain is free of log, then slow down engine. Chain should keep cutting until bar is free of cut.
7. Do not operate the saw when it is in need of repair.
8. When mixing fuel or refueling the engine, observe fire precautions.
9. Avoid spilling fuel by overfilling tank. Use a gas can with a flexible spout.
10. Be certain when mixing fuel to use correct amount of oil. Be sure to use the type of oil recommended by the unit manufacturer. (REMINGTON 2-Cycle Engine Oil No. 48411 - 16 parts gas to 1 part oil.)
11. Remove your saw from refueling area before starting engine.
12. Keep your saw clean of dirt, saw dust, oil and grease.
13. Keep your muffler in good condition; that is, free of carbon. Replace screen as necessary. A clogged muffler usually is an indication of improper oil used in the fuel mix - this creates numerous malfunctions of the engine. Never run your engine without the muffler and screen installed.
14. Keep the spark plug and electrical wiring connections tight.
15. Keep fire extinguisher within easy reach.
16. At all times, be careful in your smoking habits.



*Remington*

CHAIN SAWS

*Thank You*

FOR YOUR PURCHASE OF A REMINGTON CHAIN SAW

Time has clearly proven that preventive maintenance, on any piece of mechanical equipment, is an important factor in the performance received. It is suggested that you read this manual carefully and keep it for ready reference. The following suggestions are made to assist you in obtaining top performance from this chain saw unit:

1. Proper lubrication is **IMPORTANT**. Always use REMINGTON 2-Cycle Engine Oil as well as a good grade of **REGULAR** gasoline in the fuel mixture. (See page 6 for mixture ratio.)
2. Always filter mixture when filling gas tank. Dirty fuel results in clogged carburetor jets and poor performance. Wipe saw dust from around gas cap before filling. Never mix large quantities of fuel. Condensation will form moisture and cause hard starting. Empty your container and the saw periodically to dispose of moisture which settles to the bottom. Never remix fuel in container with some of the old fuel remaining. Use fresh gas.
3. Grease guide bar roller nose at least twice daily; more often under severe operating conditions.
4. When storing chain saw during non-cutting months, drain fuel mixture from gas tank and start engine. Run until fuel in gas line and carburetor is used up.
5. Check tightness of screws, nuts and bolts before and during operation. Loose fasteners can cause damage to the chain saw and make operation unsafe.
6. Do not operate chain saw with dull chain. The chain is a cutting device and must be kept sharp. (Read and follow directions in Chain Sharpening Instruction Booklet.)
7. Do not operate chain saw with loose chain when using a roller nose guide bar. A loose chain results in excessive wear on chain, guide bar, and sprocket. (See pages 8 to 11 of Chain Instruction Booklet.)
8. Keep your chain saw clean. A dirty saw does not "breathe" and creates excessive heat. (See page 9 for instructions.)
9. Reverse guide bar, top for bottom every week. You will receive longer guide bar life, just as you received longer tire life on your car by rotating the tires.
10. When your REMINGTON chain saw is in need of maintenance, see your nearest Remington Recommended Chain Saw Service Station.

REMINGTON ARMS COMPANY, INC.

Introduction

SECTION		Page
ASSEMBLY	Putting Guide and Chain on Saw. . . . .	3
	Tightening the Chain. . . . .	3
OPERATION	Legend. . . . .	4
	Preparation for Running . . . . .	6
	Transmission. . . . .	6
	Fuel. . . . .	6
	Chain Oiler . . . . .	6
	Roller Nose . . . . .	6
	Carburetor . . . . .	6
	Starting . . . . .	7
	Felling with the Chain Saw. . . . .	8
	Notching . . . . .	8
	The Back Cut . . . . .	8
	When the Tree Falls . . . . .	8
Operating the Saw. . . . .	8	
MAINTENANCE	Daily . . . . .	9
	Trouble Shooting Data. . . . .	10
	Ignition System. . . . .	10
	Fuel System. . . . .	11
	Chain . . . . .	11
SERVICE	Carburetor Adjustment . . . . .	14
	Clutch-Gear Assembly . . . . .	15
	Magneto . . . . .	17
	Access to Magneto . . . . .	17
	Breaker Point Adjustment . . . . .	17
	Magneto Timing . . . . .	18
	Starter. . . . .	18
	Disassembly . . . . .	19
	Assembly . . . . .	19

# ASSEMBLY

## PUTTING GUIDE AND CHAIN ON SAW

- A. Mount guide over guide bolts. Place sprocket cover over bolts. Adjusting block pin must be in the hole in the guide.
- B. Replace washers and nuts. **DO NOT TIGHTEN NUTS UNTIL CHAIN ADJUSTMENT IS MADE.**
- C. Install the chain over the sprocket and on the guide. Cutting edges of chain on top of guide must face forward toward the roller nose.
- D. Connect ends of chain together with connecting pin.

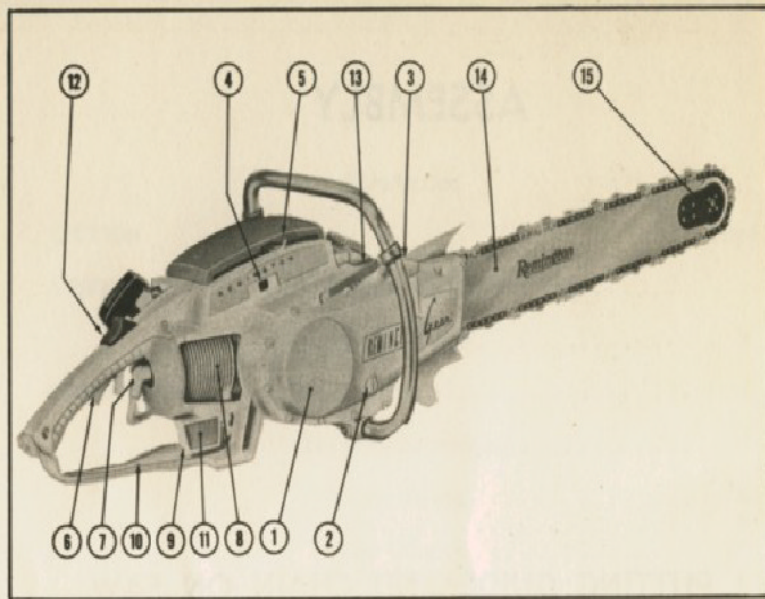
## TIGHTENING THE CHAIN

- A. Tighten chain with the adjusting screw until chain is snug on the guide. (See chain instructions - Chain Tension - page 8 to 11).
- B. Tighten the nuts firmly on sprocket cover. Lift up roller nose end of guide when tightening. **KEEP CHAIN SNUG AT ALL TIMES.**



**Remington**

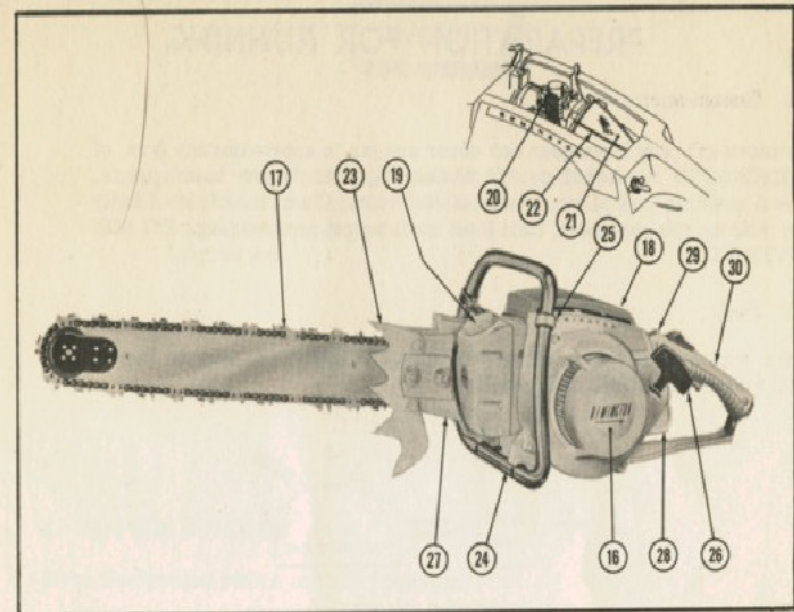
CHAIN SAWS



## LEGEND

### RIGHT HAND

- |                              |                      |
|------------------------------|----------------------|
| 1. Gear Box Cover            | 9. Muffler           |
| 2. Transmission Filler Plug  | 10. Shield           |
| 3. Oil Cap                   | 11. Muffler Screen   |
| 4. Carburetor Adjusting Hole | 12. Oiler Thumbpiece |
| 5. Choke Lever               | 13. Bracket          |
| 6. Throttle Trigger          | 14. Guide            |
| 7. Spark Plug Guard          | 15. Roller Nose      |
| 8. Cylinder                  |                      |



## LEGEND

### LEFT HAND

- |                           |                     |
|---------------------------|---------------------|
| 16. Starter               | 24. Handle          |
| 17. Chain                 | 25. Bracket         |
| 18. Carburetor Cover      | 26. Starter Handle  |
| 19. Fuel Cap              | 27. Sprocket Cover  |
| 20. Carburetor            | 28. Spark Plug Wire |
| 21. Manifold Filter       | 29. Ignition Switch |
| 22. Filter Retaining Ring | 30. Grip.           |
| 23. Sticker               |                     |



**Remington**

CHAIN SAWS

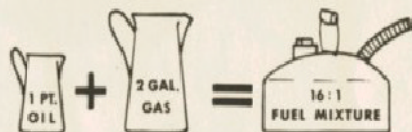
## PREPARATION FOR RUNNING

### A. Transmission:

Remove oil plug from gear box cover and put in approximately 2 oz. of REMINGTON No. 26462 or EP 90 Gear oil. Set the saw in an upright, level position and allow excess oil to drain. Check the oil level daily by placing the saw on a flat, level surface and remove plug. **DO NOT OVER FILL.**

### B. Fuel:

Mix well together in a clean container, REMINGTON 2-cycle Engine Oil #48411 and REGULAR gasoline.



FUEL MIXING CHART

MIXTURE	GASOLINE	OIL
16:1	1 GAL.	1/2 PT.
	2 GAL.	1 PT.

### C. Chain Oiler:

Fill the oil tank with REMINGTON 2-Cycle Engine Oil #48411. Mix with 1/4 kerosene in hot weather and 1/2 kerosene in cold weather. Push oiler thumbpiece until oil appears.

### D. Roller nose:

Grease the roller nose at least twice daily by inserting the grease gun needle nose into the hole in the roller nose side plate and push the grease gun handle until grease appears on roller nose. Use REMINGTON #18347 or #1 Lithium Lubricant.

### E. Carburetor:

THE CARBURETOR HAS BEEN FACTORY ADJUSTED. ONLY A MINOR ADJUSTMENT MAY BE NECESSARY FOR NORMAL CUTTING OPERATION DURING THE BREAK-IN PERIOD.

When further adjustments are necessary, refer to page 14.

## WARNING

Never adjust the high speed mixture screw less than 3/4 turn open. Too lean a mixture may damage the engine due to lack of proper lubrication.

## STARTING

### A. IGNITION SWITCH ON

Move the ignition switch to "ON" position.

### B. CLOSE CHOKE

Move choke lever to "CHOKE" position. Usually, the choke is needed only for starting a cold engine.

### C. OPEN THROTTLE

Squeeze and hold the throttle trigger to open the throttle.

### D. PULL STARTER

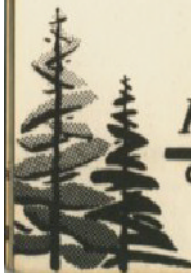
Pull the starter handle, using a short, fast pull. Repeat until engine starts.

### E. RUNNING

After the engine starts, release the throttle trigger and return the choke lever to "RUN" position.

### F. STOP

Stop engine by returning ignition switch to "OFF" position.

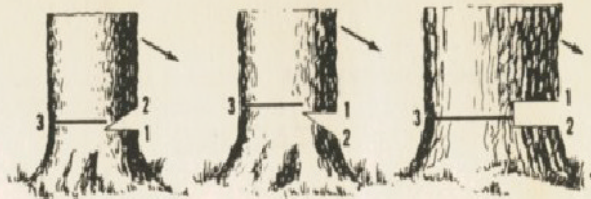


*Remington*

CHAIN SAWS

## FELLING WITH THE CHAIN SAW

Before beginning operation, take a few minutes to size up the lean of the tree carefully. Decide before hand just where the tree may be felled. Take note of the larger branches as well as the wind direction. Be certain to have a clear, safe place to move to. Take into consideration that the tree may not fall as planned.



### NOTCHING

Notches are made on the side on which the tree should fall. The undercut provides the hinge point on which to tip the tree in the right direction. Various notches are used in different parts of the country. Illustrated are a few types - any of which may be made with your REMINGTON Chain Saw.

The cuts are numbered in the proper order for cutting. The notch (1 and 2) is made first to a depth of approximately one third the diameter of the tree. The usual practice is to saw out the notch at a 45° angle.

### THE BACK CUT OR FELLING CUT:

The back cut (3) is made about 2" higher than the bottom of the undercut. The back cut should be kept parallel with the undercut. If all cutting is done properly, the tree will begin falling when only an inch or two of holding wood is left.

### WHEN THE TREE FALLS:

Move to a safe place when the tree begins to fall. Do not depend on the tree to fall the same as one felled under similar conditions.

### OPERATING THE SAW

The guide must be kept in the middle of the cut so that the cutters returning in the upper groove do not cut into the side of the kerf; do not twist the saw in the cut; feed the saw into the tree - the rate of speed will depend on the type and size of timber. When making a deep cut, the saw slot should be spread with a wedge to prevent pinching the guide and chain. Wedges should be made of wood or magnesium alloy - not steel. A steel wedge will destroy the chain if it comes in contact with the chain. Wedges and a single bit ax should always be kept at hand.

FOR SAFER, EASIER, AND FASTER CUTTING, KEEP THE CHAIN SHARP.

## DAILY MAINTENANCE

Saw must be shut off before any of the following steps are taken.

### ENGINE:

1. Keep your saw clean.
2. Remove all dirt and saw chips from cylinder.
3. Remove plug and check level of gear oil with saw in upright position.

### FILTER:

Remove the carburetor cover by loosening screw and sliding cover forward. Unhook the rubber retaining ring holding the air filter on its manifold. Remove and clean the air filter inside and outside. Wash with clear gasoline - not oil mixture. If possible, use compressed air to blow filter clean.

### CHAIN:

1. Keep the chain clean and well oiled by using the correct oil - kerosene mixture. Sharpen and adjust chain if necessary. (See Sharpening Instruction with chain - Page 14.)
2. Keep gauges at proper depth - (See pages 22 and 23 of Chain Sharpening Instructions.)

### GUIDE:

Grease roller nose at least twice daily. Keep guide bar oil holes free and clear of foreign material.

TIGHTEN ALL VISIBLE SCREWS AND NUTS.



**Remington**

CHAIN SAWS

# TROUBLE SHOOTING DATA

## WHAT TO DO IF THE ENGINE FAILS TO START

### DID YOU?

1. Turn on the switch?
2. Use the choke?
3. Use the correct fuel mix - 16 to 1?


### IF SO: CHECK:

#### Spark Plug

Remove, clean, and set the gap correctly to .025", or replace. If engine fails to start with a new spark plug, see your REMINGTON Recommended Chain Saw Service Station.

TROUBLE	POSSIBLE CAUSE	REMEDY
IGNITION:	<ol style="list-style-type: none"> <li>1. Spark Plug Dirty</li> <li>2. Spark plug or switch wire shorted</li> <li>3. Switch, high tension lead, condenser, coil, magneto rotor, points, engine turning</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean, reset to .025" opening or replace.</li> <li>2. Find bare spot on wire or break in wire - repair or replace.</li> <li>3. See your Recommended Remington Chain Saw Service Station for complete magneto check.</li> </ol>

TROUBLE	POSSIBLE CAUSE	REMEDY
FUEL SYSTEM:	<ol style="list-style-type: none"> <li>1. Carburetor not getting gas</li> <li>2. Fuel cap not venting must allow air into tank</li> <li>3. Incorrect carburetion</li> <li>4. Engine Flooding</li> <li>5. Carburetor not getting air</li> </ol>	<ol style="list-style-type: none"> <li>1. Check for leaky or clogged fuel pick-up or loose gas line. Replace line if leaking.</li> <li>2. Disassemble, clean and reassemble in its original position.</li> <li>3. Sticky needle valve - re-adjust low and high speed adjusting screw. Clean dirty air filter. Set Adjusting screws and start.</li> <li>4. Remove spark plug and pull starter several times with adjusting screws closed.</li> <li>5. Remove and clean air filter.</li> </ol> <p>If after this is done, the engine will not start, see your Recommended REMINGTON Chain Saw Service Station.</p>
CHAIN CUTS OUT OF LINE	<ol style="list-style-type: none"> <li>1. Dull Chain</li> <li>2. Chain not sharpened correctly</li> <li>3. Cutter gauge depth not correct</li> <li>4. Worn guide</li> <li>5. Damaged guide</li> </ol>	<ol style="list-style-type: none"> <li>1. Keep chain sharp. (See Chain Sharpening Instructions - Page 16.)</li> <li>2. Sharpen all cutters the same. (See Chain Instruction Manual - Page 21.)</li> <li>3. Correct Gauge clearance .025". (See Chain Instruction Manual - Page 22.)</li> <li>4. Rotate your guide regularly. Have guide reworked or replaced. (See Chain Instruction Manual - Page 27-29.)</li> <li>5. Replace Guide.</li> </ol>



**Remington**

CHAIN SAWS

TROUBLE	POSSIBLE CAUSE	REMEDY
CHAIN NOT RECEIVING OIL	<ol style="list-style-type: none"> <li>1. Chain oil line not filled</li> <li>2. Oil Line clogged</li> </ol>	<ol style="list-style-type: none"> <li>1. Pump oiler until oil appears.</li> <li>2. Clear guide bar oil holes of foreign material.</li> </ol>

**CAUTION**

WHEN REPLACING ANY FASTENERS THAT HAVE BEEN REMOVED, BE SURE TO TIGHTEN SECURELY.

## REMINGTON SERVICE STATION

## MANUAL

The items in this section in many instances constitute a major overhaul, requiring the use of special tools and services of a skilled mechanic. Therefore, we strongly recommend you see your REMINGTON RECOMMENDED CHAIN SAW SERVICE STATION for assistance on the items in this section.



**Remington**

CHAIN SAWS



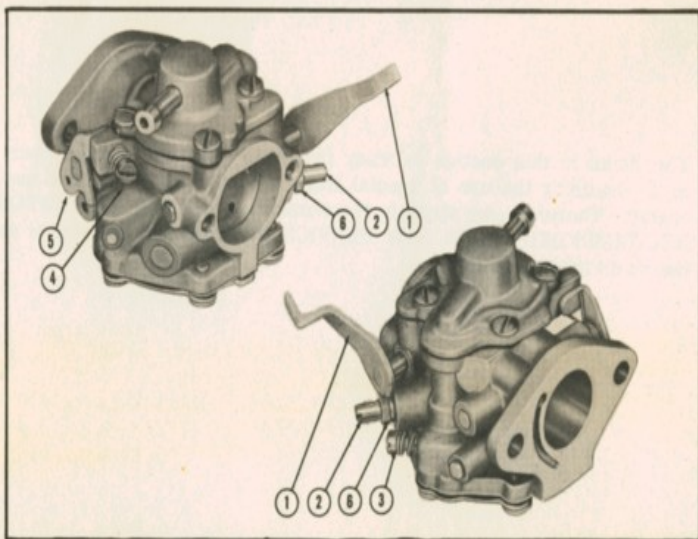
# SERVICE

## CARBURETOR ADJUSTMENT

To obtain a proper setting for the carburetor at free speed WITH GUIDE AND CHAIN ASSEMBLED, the following steps should be carefully followed:

Never attempt to adjust carburetor with a dirty air filter.

Keep filter clean and properly installed on carburetor.



1. Seat, or CAREFULLY close, but do not jam, the high Speed Adjusting Screw (2) and low Speed Adjusting Screw (3) and Throttle Control Screw (4) all the way.

2. Tighten packing nut (6) with 5/16" thinwall deep socket wrench. Back out or open the high speed needle (2) one full turn. Open the idle speed adjusting screw (3) one full turn.

3. Close choke to "choke" position. Start engine. Open choke to "run" position.

4. Allow engine to warm up for about a minute.

5. Back off throttle control screw (4) until chain stops moving.

6. If engine does not flood out at low speed, no further adjustment of idle speed screw (3) is needed at this time. If engine starts flooding or begins to die out at idle speed, turn screw (3) in to the right approximately one quarter turn.

7. Run engine at full speed to burn excess fuel in crankcase. (Approximately 10 seconds.)

8. With engine running at full speed, slowly, very slowly, turn high speed needle (2) to the right until engine drops into a four cycling sound. This is an interrupted two-cycle - four-cycle effect commonly called "breaktone". Carburetor is now properly adjusted.

9. Release throttle - if chain moves, slowly back off (turn to left) throttle adjusting screw (4) off its contact with throttle shaft and lever assembly (5) until chain stops moving on guide bar. The adjustment is now complete.

Carburetor readjustments may be required, especially on new units after ten or fifteen hours during the break-in period. When readjusting, repeat all of the previously outlined steps.

## CLUTCH-GEAR ASSEMBLY

### CLUTCH-GEAR ASSEMBLY:

1. Remove lubricant from gear box and chain oiler compartment.

2. Remove gear box cover (17 screws).

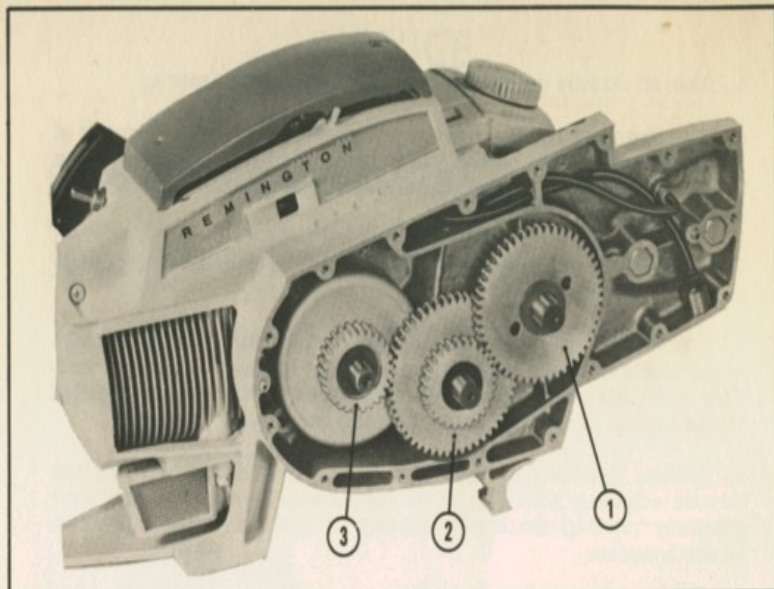
3. Remove thrust washers and/or bearing from all three shafts.

4. Remove sprocket shaft gear, using hand spanner wrench on gear and spark plug wrench on sprocket shaft hex. GEAR HAS RIGHT HAND THREAD. Remove by turning counter-clockwise.



**Remington**

CHAIN SAWS



**CAUTION**

When installing gear on sprocket shaft, be sure the thrust washer is on large diameter of shaft beyond shaft threads, and that it is not caught between shaft shoulder and gear hub.

5. The jack-shaft gear assembly (middle gear) is readily removed by lifting straight out of bearing.

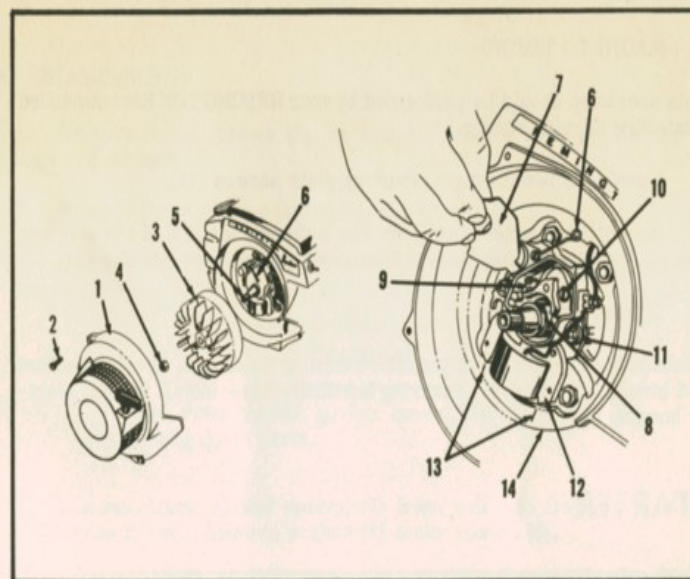
NOTE: This jack-shaft assembly is not symmetrical and must be replaced with the short bearing in the gear box and the long bearing in the gear box cover. The jack-shaft has **RIGHT HAND THREADS**.

6. Remove clutch from crankshaft in clockwise direction, using an impact wrench spanner attachment. **CLUTH HAS LEFT HAND THREAD.**

**REASSEMBLE IN REVERSE ORDER:**

Thrust washers and/or bearing are used on each side of (1) sprocket gear (2) jack-shaft gear assembly (3) pinion-clutch drum assembly.

**MAGNETO ASSEMBLY**



**A. ACCESS TO MAGNETO:**

1. Take the starter housing assembly (1) off by removing three screws (2).
2. Remove the fan assembly (3) by loosening the fan retaining nut (4). This nut acts as a puller; unscrewing it forces the fan from the crankshaft.
3. Pull fan assembly from shaft.

**B. BREAKER POINTS ADJUSTMENT:**

1. Rotate breaker point cover spring (6) away from the cover (7) and remove the cover (7).
2. Rotate crankshaft (5) until cam (8) is at its highest position, giving the biggest breaker point opening (9).
3. Loosen point adjusting screw (10) and set breaker point gap clearance (9) to .020 inch. The tip of the cover (7) is a .020 inch gauge.



**Remington**

**CHAIN SAWS**

## MAGNETO ASSEMBLY:

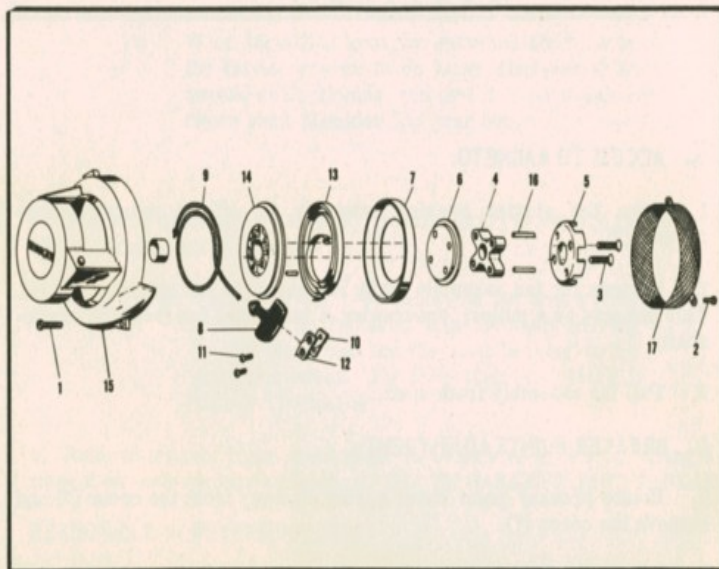
### C. MAGNETO TIMING:

This operation should be performed by your REMINGTON Recommended Chain Saw Service Station.

1. Loosen the two magneto mounting plate screws (11).
2. Rotate the magneto until the two pointed ends (12) of the magneto line up opposite the two lines (13) marked on the cover housing (14).
3. Tighten screws (11).

Recheck the breaker point gap after retiming the engine. Replace gasket and breaker point cover, securing it with the clip - install fan and starter housing assembly.

## STARTER



### A. DISASSEMBLY:

1. Remove three screws (1), holding the starter assembly to the frame of the saw.
2. Remove three screws (2) holding the screen (17).
3. Remove the two screws (3) holding the drum (5) to the spacer (4) and pulley (14).

### CAUTION

Hold down recoil spring cover (7) when removing these parts.

4. Remove drum (5) and spacer (4) from roll pins (16) by prying up with screwdriver. Remove washer (6) under spacer (4).
5. Remove handle (8) from rope (9) by prying plate (10) out of handle (8) with screwdriver. Remove two screws (11), rope (9), plate (10) and insert (12). Release pretension on spring (13).
6. While still holding the cover (7), insert the screwdriver in the cover opening and under the spring. Lift the spring clear of the anchor.
7. Lift cover (7) and spring (13) from housing. Spring (13) may now be removed from cover (7).
8. Remove pulley (14) and rope (9).

Caution should be used when handling recoil spring (13) since it is under tension.

### B. ASSEMBLY:

1. Slip the rope (9) through the hole in the pulley (14), tie knot, pull down tight so that it does not rub. Apply thin coat of shellac to knot and wrap rope (9) around pulley (14) clockwise.
2. Slip the other end of the rope through the hole in the housing (15). Replace the pulley (14) in the housing (15). Thread rope (9) through the handle (8).

*Remington*

CHAIN SAWS

3. Place end of rope at top and center and away from slot in insert (12).

4. Form figure "S" around screw holes. Insert two screws (11) in screw holes. Place plate (10) in insert (12) and tighten screws (11). Secure inside anchor form of rewind spring (13) while holding cover (7) over housing (15).

5. Insert screwdriver in outside anchor form and wind spring counter-clockwise not more than two complete revolutions and anchor. Tap spring fully into recess.

6. Assemble washer (6), spacer (4), and drum (5) over roll pins (16) and replace two screws (3) into pulley (14).

7. Reassemble starter screen (17) and replace three screws (2).

8. Assemble starter to saw and replace three screws (1).

## REMINGTON BANTAM G & GP CHAIN SAW SPECIFICATIONS

ONE CYLINDER	GEAR RATIO 4 to 1
TWO-CYCLE	
BORE:	2 1/16 Inches
STROKE:	1 1/2 Inches
DISPLACEMENT:	5 Cubic Inches
FIRING TIME:	29° Before Top Dead Center of Piston Travel
BREAKER POINT SETTING:	.020 Inch
SPARK PLUG GAP OPENING:	.025 Inch
FUEL-OIL MIXTURE:	16 : 1 (One Pint Remington 2- Cycle Engine Oil per two gal. Regular Gasoline)
SPARK PLUG TYPE:	J-6J Champion or AC M44C Remington No. 25671
GAS TANK CAPACITY:	27.0 OZ.
OIL TANK CAPACITY:	8 OZ.
CHAIN OILER:	Manually Operated
COLOR:	Beige and Brown
CLUTCH:	Centrifugal Engagement
TYPE OF BEARINGS:	Needle Roller and Thrust
TYPE OF CARBURETOR:	Diaphragm
TYPE OF STARTER:	Rewind.



**Remington**

CHAIN SAWS

### IMPORTANT

When removing the gear box cover, first remove the screw in back of the gear box cover. This is located in the recess between the guide bar pad and the sprocket. When replacing the cover, fasten this screw first.