McCULLOCH CORPORATION
SERVICE BULLETIN

1552

MODEL: Mini-Mac 30 and Mini-Mac 35, and Power Mac 6. April 26, 1974

SUBJECT: NEW PARTS, AND SERVICE SPECIFICATIONS.

The following new parts were introduced on the Mini-Mac 30 and 35 saws. The list below includes part change information that is in effect for replacement and inventory ordering.

Three of the more important design changes are:

1. New 3/8-in. pitch Mini-Mac MM 370G chain and sprocket, standard equipment for the Mini-Mac 30 and 35 saws. Basically, this is a 1/4-in. pitch Speed Mac Cutter on a 3/8-in. pitch chain, which provides smoother, faster cutting. It has a redesigned depth gauge, reducing the possibility of kickback, and this 370G chain is stronger with larger rivets, and more material in the drive links, tie straps, and cutters.

   An accessory chain, the Mini Pro MP 370G, is identical to the MM 370G, except that the cutters are chrome plated to give improved wear characteristics.

2. Louvered air filter cover provides increased air filter intake area, which improves carburetor "breathing."

3. Fuel hose with plastic adapter and special O-ring for positive seal.

Parts Common To Both Models

Part Number	Description	Manufac. Suggested List Price	Stock. Code
90636	Guard Assy-Clutch	$ 3.05	A
105583	'E' Ring-cancelled and replaced by Ring-Retaining, PN 110907.		
110907	Ring-Retaining	.50(Z)	B
90388	Spacer - Clutch	.40	A
90150	Sprocket,Drum,Bearing Assy, for 3/8-in.pitch chain	5.95	B
90389	Washer - Sprocket	.40	A
90383	Cover - Air cleaner	1.75	A
90425	Cover - Starter	1.40	A
110674	Screw - Hex hd 10-24 x 1/2	.40(Z)	B
89684	Cover - Muffler	.25	A
89682	Body - Muffler	.80	A
89685	Screen - Spark arrester Muffler spark arrester screen for those areas that have strict forestry regulations.	.85	A
90661	Kit - Fuel hose	1.35	B
86439	Crankshaft	21.45	A

Mini-Mac 30 only

90639N	Mini-Mac 370G chain (for 12-in. bar)	6.95	A
90642N	Mini Pro 370G chain (for 12-in. bar)	10.65	A
90631	Bar - 12 in.	15.00	A
90637	Crankcase Assy	34.50	A
90421	Sticker - Nameplate	.40	B

Mini-Mac 35 only

90640N	Mini-Mac 370G chain (for 14-in. bar)	7.75	A
90643N	Mini Pro 370G chain (for 14-in. bar)	11.90	A
90665	Crankcase Assy	34.50	A
90422	Sticker - Nameplate	.45	B
90632	Bar - 14 in.	15.90	A

Mini-Mac Carburetors

Both the Mini-Mac 30 and 35 were originally equipped with the MDC-7 Carburetor Assembly, PN 89273. These models are now being manufactured with the MDC-9 Carburetor Assembly, PN 90440, with the changeover occurring as shown in Table 1.

Table 1. Changeover of MDC-7 to MDC-9.

Saw	Model	Serial
Mini-Mac 30	600093U	11- 12,152
Mini-Mac 35	600091U	11- 12,569

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Mini-Mac Carburetors, cont'd.

The new Carburetor Assembly, PN 90440, has a new and improved Throttle Shaft, PN 90471. The new throttle shaft has more bearing area at the blind hole, which provides better wear resistance. The carburetor body has been modified to accommodate the longer shaft.

Throttle Shaft, PN 85032, (for Carb. Assy PN 89273) and Throttle Shaft, PN 90471 (for Carb. Assy, PN 90440) should not be interchanged. It is very important that special note be made of serial numbers of the saws when ordering throttle shaft replacements.

Power Mac 6 Carburetors

The Power Mac 6 saw was originally equipped with an MDC-6 Carburetor, PN 87238, but is now being manufactured with an MDC-8 Carburetor, PN 90447. The changeover started as shown in Table 2.

Table 2. Changeover of MDC-6 to MDC-8.

Saw	Model	Serial
Power Mac 6 Automatic	600086M	12- 16,706
	600086T	12- 15,751
	600086U	12-137,711

As in the cases of the MM 30 and 35 carburetors, the throttle shaft has been improved, and care should be taken not to interchange shafts in these carburetor bodies. Throttle Shaft, PN 68552, is for MDC-6 Carburetor, PN 87238, and Throttle Shaft, PN 90470, is for MDC-8 Carburetor, PN 90447.

POWER UNIT SERVICE SPECIFICATIONS
Mini-Mac 30 and 35, and Power Mac 6

ASSEMBLY (Torque Values)
- Connecting Rod
  35 to 40 in./lb (40 to 46 cm/kg)
- Flywheel Nut
  240 to 300 in./lb (276 to 345 cm/kg)
- Clutch Nut
  125 to 150 in./lb (144 to 172 cm/kg)
- Sparkplug
  110 to 130 in./lb (126 to 150 cm/kg)

IGNITION
- Sparkplug
  Standard AC CS 45T; Champion DJ8
  Cold AC CS 42T; Champion DJ6
- Sparkplug Gap
  0.025 in. (0.64 mm)
- Lamination Gap
  0.010 to 0.015 in. (0.25 to 0.38 mm)
- Breaker Point Gap
  0.018 in. (0.46 mm)
- Timing
  26° ± 2° BTDC

CARBURETOR ADJUSTMENT
- LO-Speed Needle: 3/4 turn open; adjust for smooth acceleration.
- HI-Speed Needle: 3/4 turn open; adjust for maximum power under load.

OPERATION
- Clutch Engagement Speed:
  2600 to 3000 rpm

CHAIN SERVICE SPECIFICATIONS
MM 370G and MP 370G
- Use 5/32-in. round file for:
  - Top Plate Filing Angle 35°
  - Side Plate Filing Angle 85°
  - Depth Gauge 0.025 in. :factory setting for optimum chain performance. Depth gauges should not require maintenance throughout life of chain.

Sincerely,
McCULLOCH CORPORATION

By Jack Carroll
Director, Product Service