McCULLOCH SERVICE BULLETIN

NO. 1668

MODEL Power Mac 310, 320 and 340 Chain Saws DATE August 1, 1978

SUBJECT Model Number 600042 (11-), 600021 (11-) and 600044 (11-)

Power Mac 300 series chain saws now being manufactured are identified by:

Model	Model Number	Serial Number Prefix
PM 310	600042	11-
PM 320	600021	11-
PM 340	600044	11-

The Illustrated Parts List for these models is P/N 94105-R1. Your distributor should provide you with a copy of this IPL in the near future if he has not already done so. Included in this mailing is Service Information 147, which contains information regarding two alternate carburetors to be used on PM 300 series chain saws. Please attach S.I. 147 to your copy of IPL, P/N 94105-R1.

The Power Mac 300 series chain saws are completely new models and include the major features of most of the McCulloch line of consumer chain saws: CHAIN BRAKE with muffler shield and wraparound handguard/CHAIN BRAKE lever, automatic as well as manual oilers, anti-vibration system, a safety trigger, throttle latch and AUTO SHARP (PM 320, 340 only).

In addition, the PM 300 series chain saws include these features:

- An electronic ignition system which provides constant ignition and more consistant power output throughout the saw cutting speed range, and eliminates high maintenance items such as the condensor and breaker points.
- Safety chain constructed with a gradually sloping guard link or depth gauge face which helps reduce the possibility of kickback.
- A Boot Loop (PM 340 only) which allows the user to secure the saw with a foot during starting procedures.
- A chain catcher which restricts the rearward travel of a broken chain or a chain which has jumped off the bar rail.
- Textured handles which provide a firm gripping surface, reducing the possibility of hand slippage.
- An extended rear handle (PM 340) which provides additional leverage during bucking and falling cuts.

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. A chain guard (PM 340) molded in the rear of the extended rear handle which helps protect the right hand in the event of chain breakage.

. Bucking spikes, standard in PM 320 and PM 340 available for PM 310.

The PM 300 series has been designed with ease of service in mind. Access can be gained to all the major assemblies by removing only 12 fasteners. Items which require the most frequent service (carburetor, starter, oil pumps) are readily accessible.

Most PM 300 series fasteners are metric. However, standard tools can be used on all but the 10 mm fasteners. Please note that the screws that thread into the top and bottom shrouds are self tapping. Therefore, replacement shrouds for the PM 300 series will not have tapped holes.

NOTE: On later PM 300 series handles, a cored hole has been added to the right handle half and the trigger. This hole allows a special Service Screw, P/N 110232, to be used as a throttle trigger and spring retainer during handle assembly or while the handle is disassembled. Early PM 300 series unit handles do not contain this cored hole.

The manufacturer's suggested list price for Screw, P/N 110232Z, is $1.00 (Z-packs only).

Domestic (U.S.) Power Mac 310, 320 and 340 units are designated by suffix letter U.

The standard bar and chain combinations for these units is shown in the following table.

PART NUMBER	DESCRIPTION	MODELS(S)
90550A	Bar-Spkt. Nose, 14", .050 gauge, .375 pitch	PM 310(U)
90643N	Chain-MP 370G, 49 center links	PM 310(U)
90752A	Bar-Spkt. Nose, 16", .050 gauge, .375 pitch	PM 320(U), 340(U)
93688N	Chain-AS 370G, 55 center links	PM 320(U), 340(U)

Service Information - Settings

. Low speed needle: seated, then one turn out (All PM 300 Series carburetors).
. High speed needle: seated, then one turn out (All PM 300 Series carburetors).
. Carburetor inlet lever (Zama, Tillotson): +.010" from the chamber floor.
. Carburetor inlet lever (Walbro): flush to +.020" from the chamber floor.
. Pressure Test (to inlet lever): 5 PSI
. CDI Lamination to flywheel air gap: .011" to .015" (.30 to .40 mm).
. Timing: 26° B.T.D.C.

A comprehensive "General Service Information" booklet, S.I. 138, is now available for PM 300 Series chain saws. Your distributor should provide you with a copy of S.I. 138 in the near future, if he has not already done so.

Please make the following correction to IPL, P/N 94105-R1 and S.I. 138.

1. The part number for the Cylinder Intake Adapter is P/N 94416.
2. The part number for the Air Box to Cylinder Intake Adapter is P/N 94415.
3. Tools and Accessories (IPL only); the part number for Spark Arrester Screen Kit is P/N 85933.