McCULLOCH

SERVICE BULLETIN

NO. 1663

MODEL Pro Mac 610 and Pro Mac 650 DATE June 12, 1978

SUBJECT Model Numbers 600041 (11-) and 600046 (11-)

Pro Mac 610 chain saws now being manufactured are identified by model number 600041 and serial number prefix 11-. Pro Mac 650 chain saws now being manufactured are identified by model number 600046 and serial number prefix 11-.

The Illustrated Parts List for these models is P/N 93716. Your distributor should provide you with a copy of this IPL in the near future if he has not already done so.

The Pro Mac 610/650 chain saws are completely new models and include the major features of most of the McCulloch line of chain saws: CHAIN BRAKE with muffler shield, automatic as well as manual oilers, capacitor discharge ignition (CDI) system, DSP valve (PM 650), anti-vibration system and a combination safety trigger/throttle latch.

In addition, the PM 610/650 chain saws include the following features:

- A Wraparound Handguard/CHAIN BRAKE lever that acts as a guard for the left hand as well as reducing the possibility of injury due to kickbacks.
- An external fuel tank gauge which allows for quick readings of fuel supply.
- A carburetor governor system (PM 650 only) which allows for peak performance without overspeeding the power train (Governed speed 10,500-11,500 R.P.M.).
- Safety Chain (Standard on PM 610) constructed with a gradually sloping guard link or depth gauge face which helps reduce the possibility of kickback.
- A Boot Loop which allows the user to secure the saw with a foot during starting procedures (previously used on the PM 850 only).
- A Chain Catcher which restricts the rearward travel of a broken chain or a chain which has jumped off the bar rail.
- A large volume, low tone muffler, designed to reduce noise without reducing the power output.
- A Spark Arrester Screen is standard equipment on the PM 610 and PM 650.
- Bucking spikes, standard on PM 650, available for PM 610.

Domestic (U.S.) Pro Mac 610 units are designated by suffix letters, C,F,G, and U.
Domestic (U.S.) Pro Mac 650 units are designated by suffix letter D.

These bars and chains are used on these models:

Models	Unit Suffix Letter	Bar	Chain
PM 610	C*, U	16", P/N 91090A	P/N 88167N
PM 610	F, G*	20", P/N 91176A	P/N 88172N
PM 650	D	Power Unit Only	

*Includes an extra chain

Printed in U.S.A.

Service Information - Settings:

. Low speed needle: seated, then one turn out
. High speed needle: seated, then one turn out
. Inlet lever: +.010 above circuit plate
. Pressure Test (to the inlet lever): 5 PSI
. CDI Lamination to Flywheel air gap: .011 to .015 inch (.30 to .40 mm)

Your distributor will provide you with a comprehensive "General Services Information" booklet in the near future if he has not already done so.

McCULLOCH Model PM 610/650 Chain Saws
Specifications

Displacement	60cc - 3.7 C.I.D.
Bore & Stroke	47mm x 35mm (1.85 in. x 1.378 in.)
Cyl. Bore	Chrome Plated
Bearings:	
Main	Needle & Ball Bearings
Conn Rod	Needle
Piston Rings	610 - Cast Iron 650 - Tool Steel
Intake System	3rd Port Piston Timed
Fuel Tank Capacity	510cc (17.2 Fluid Ounces)
Chain Oil Tank Capacity	430cc (14.5 Fluid Ounces)
Chain Oiler Type	Manual & Auto Oiler
Clutch Engagement Speed	2800 - 3000 RPM
Idle Speed	1800 - 2000 RPM
Ignition	Capacitor Discharge (C.D.I.)
Spark Plug	A/C CS 45T (RDJ - 6 R.F.I.)
Weight P.U.O. (610)	15.0 lbs. (6.8 kg.)
Weight P.U.O. (650)	15.0 lbs. (6.8 kg.)
Cutter Bar (610)	
Length:	16" - 20"
Type:	Laminated Sprocket Nose
Chain Type (610)	PM 370G
Sprocket Type	Floating Rim - 7 Tooth .375
Carburetor	Two Needle External Adj., Diaphragm Internal Governor (650) - 10,500 - 11,500 RPM

Attached to this FSN is a numerical list of parts used in the U.S. versions of the PM 610 and PM 650, including parts pricing and stocking information.

NOTE: Many of the fasteners used on these models are metric.

McCULLOCH CORPORATION

Product Service
Department