McCULLOCH SERVICE BULLETIN

NO. 1617

MODEL Mini Mac 25 & 30 Chain Saw

DATE August 30, 1976

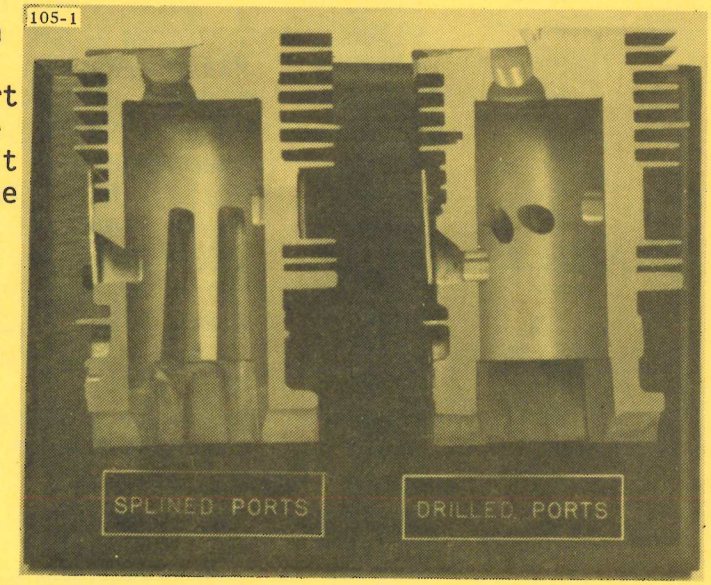
SUBJECT Model Number 600093 (14-)

Mini Mac 25 and 30 Chain Saws now being manufactured are identified by Model Number 600093 and Serial Number Prefix 14-.

The Illustrated Parts List for this model is P/N 92290. Your Distributor should provide you with a copy of this IPL in the near future if he has not already done so. This IPL supersedes and replaces IPL, P/N 91358.

Improvements and changes included in this model are:

1. A new "Full Bore" cylinder/crankcase with drilled fuel transfer ports replaces the previously used splined fuel transfer port cylinder (See Photo). The cylinder bore is aluminum alloy (not chrome plated), but the piston is chrome plated to provide the necessary wear resistance.



   This "Full Bore" cylinder design results in better support for the piston as well as increasing the area of contact between the piston and the cylinder wall. This, in turn, results in better heat dissipation and a cooler running engine.

   The drilled fuel transfer ports improve scavenging and engine performance.

   Replacement Cylinder/Crankcase/Piston Kit, P/N 92279, includes chrome plated Piston, P/N 92274. The cylinder/crankcase will not be sold separately but Piston, P/N 92274, will be available as a service part.

   Use only chrome plated Piston, P/N 92274, with the "Full Bore" cylinder. Use of other than Piston, P/N 92274, will cause severe damage to "Full Bore" cylinders used on Mini Mac 25s and Mini Mac 30s.

2. Changes have been made to the crankshaft, clutch spider, flywheel assembly, flywheel nut, starter pawls and starter pulley. All of the changes to the foregoing new parts are tied together and the changes are as follows.

   a. Crankshaft threads for the clutch have been increased in diameter for added strength.

   b. Threads in the clutch spider have been changed to match the crankshaft threads.

   c. The taper on the crankshaft has been made longer to match a longer taper in the flywheel for increased contact and holding ability. The change in length of the taper allows the use of a smaller woodruff key and flywheel nut with a lower torque (170-175 lb/in., 196.84-202.60 kg/cm). DO NOT EXCEED THIS TORQUE.

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d. The flywheel assembly has additional material added in the hub area because the steel hub has been eliminated.

e. The starter pawls have been redesigned and the starter pulley has a redesigned ratchet to match the starter pawls and provide greater contact area.

NOTE: 1) The new crankshaft, flywheel, starter drum, pawls, and clutch assembly do not backfit.
2) Cylinder/Crankcase/Piston Kit, P/N 92279, will be the service replacement for the current Mini Mac service Cylinder, P/N 90637.

Information concerning parts used in the Mini Mac 25 and 30, serial number prefix 14-, model number 600093, which were not listed in the previous Mini Mac 25 and 30 Illustrated Parts List, is presented in the following table.

IPL Location	Part Number	Description	Qty	Mfg. Sugg. List Price	Stock Code
Fig. 1	92727	Clutch Asy	1	$ 9.95	A
"	110957	Rivet	2	.11	A
"	92721	❶ Spider	1	2.50	A
"	110953	Screw - Hx hd 12-24 x 5/8	6	.13	A
"	90922	❷ Cap-Fuel & Oil (Vented)	2	.95	A
"	91859	Kit - Shroud Asy	1	13.40	A
"	91853	. Cover - Air cleaner	1	2.50	A
"	91796	. Screw - Air cleaner	1	.15	A
"	84520A	Plate - Washer	2	.35	A
"	110959	Screw - Hx hd 8-32 x 1/2	3	.13	A
"	110706	Screw - Rd hd 8-32 x 1/2	1	.11	A
"	92316	Drum/Rope Asy	1	4.30	B
"	91694	Plate - Name (B,E,F,J,K,L,P,U)	1	.50	A
"	91693	Plate - Name (C,D,G,H,M)	1	.50	A
Fig. 2	90570B	CHAIN BRAKE Asy	1	14.95	A
"	90571C	Kit - Housing/Spring	1	11.00	A
"	110955	Screw - Set 8-32 x 1/2	1	.13	A
Fig. 4	92204	Piston - Asy Pump	1	1.00	A
"	89059	Hose - Fuel	1	.85	A
"	110970	Nut - Hx 5/16-24	1	.13	A
"	91961	Flywheel & Pawl Asy	1	21.20	A
"	92898	❸ Spring - Pawl	2	.10	B
"	91872	Pawl - Starter	2	1.00	A
"	102164	Key - Woodruff	1	.10	A
"	84505A	Kit - Breaker box	1	1.35	A
"	92037	. Washer	1	.15	A
"	92279	Kit - Cylinder/Crankcase/Piston	1	56.95	A
"	110914	❹ Cup - Plug	4	.15	A
"	92274	Piston	1	12.20	A
"	92752	Set - Piston rings	1	2.35	A
"	91932	Crankshaft	1	27.85	A
Accessories	91753	Case - Carrying	1	21.95	A

❶ Spider, P/N 92721, is shown incorrectly in the IPL. The spider is part of clutch Asy, P/N 92727, but is not part of Clutch Shoe Kit, P/N 85202.

❷ Used on models with Serial Number prefix 11-, 12-.

❸ Starter Pawl Spring, P/N 92898, replaces Spring, P/N 67814, when used with Starter Pawl, P/N 91872. Please change item 27 of Fig. 4 in the IPL. Do not change item (27).

❹ Plug Cup, P/N 110914, is not listed in the IPL. It should be shown as part of Cyl/C'Case/Piston Kit, P/N 92279.

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Department