McCULLOCH SERVICE BULLETIN

NO. 1716

MODEL: MAC 110/120 DATE: December 15, 1981

SUBJECT: MANUFACTURING CHANGES

The following changes have occurred in MAC 110/120 model chain saws manufactured with serial number prefix 14-. These changes will appear in Illustrated Parts List, P/N 95807-R1, copies of which your distributor has available for you to order.

A. Crankshaft Bearings:

Recent production cylinders on MAC 110/120 units with serial number prefix 14- were manufactured with two types of crankshaft bearings (Fig. 1). One, Crankshaft Bearing, P/N 213282, is the same type and size previously used on MAC 110/120 series. However, a limited number of units were manufactured with the PRO MAC 510-type Bearing Sleeve Assembly, P/N 93763.

Please note the substantial size difference between these two crankshaft bearings. Replacement bearings must be the same as originally used with the cylinder. Identify parts before ordering.

Also note that all P/N 214157 service replacement cylinders are being manufactured to accept only Crankshaft Bearing, P/N 213282.

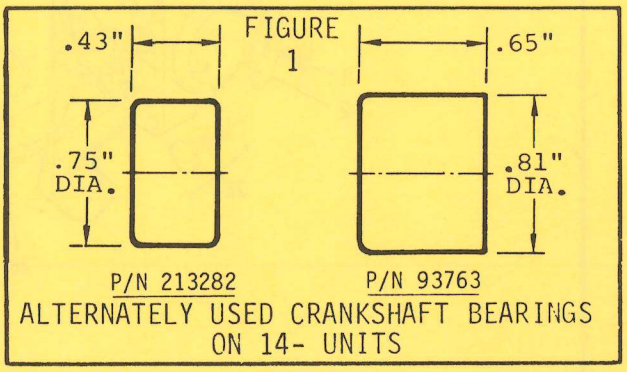


FIGURE 1
ALTERNATELY USED CRANKSHAFT BEARINGS ON 14- UNITS

B. Carburetor Assembly (Figure 2):

MAC 110/120 units are now being manufactured with Carburetor Assembly, P/N 214082A (Zama M1-M7). The only change of particular note is the Plastic Disk, P/N 215277, that attaches to the fuel control lever and performs the same function as the metal rivet normally attached to the fuel control diaphragm of most carburetors.

Service settings for the Zama M1-M7 carburetor are:

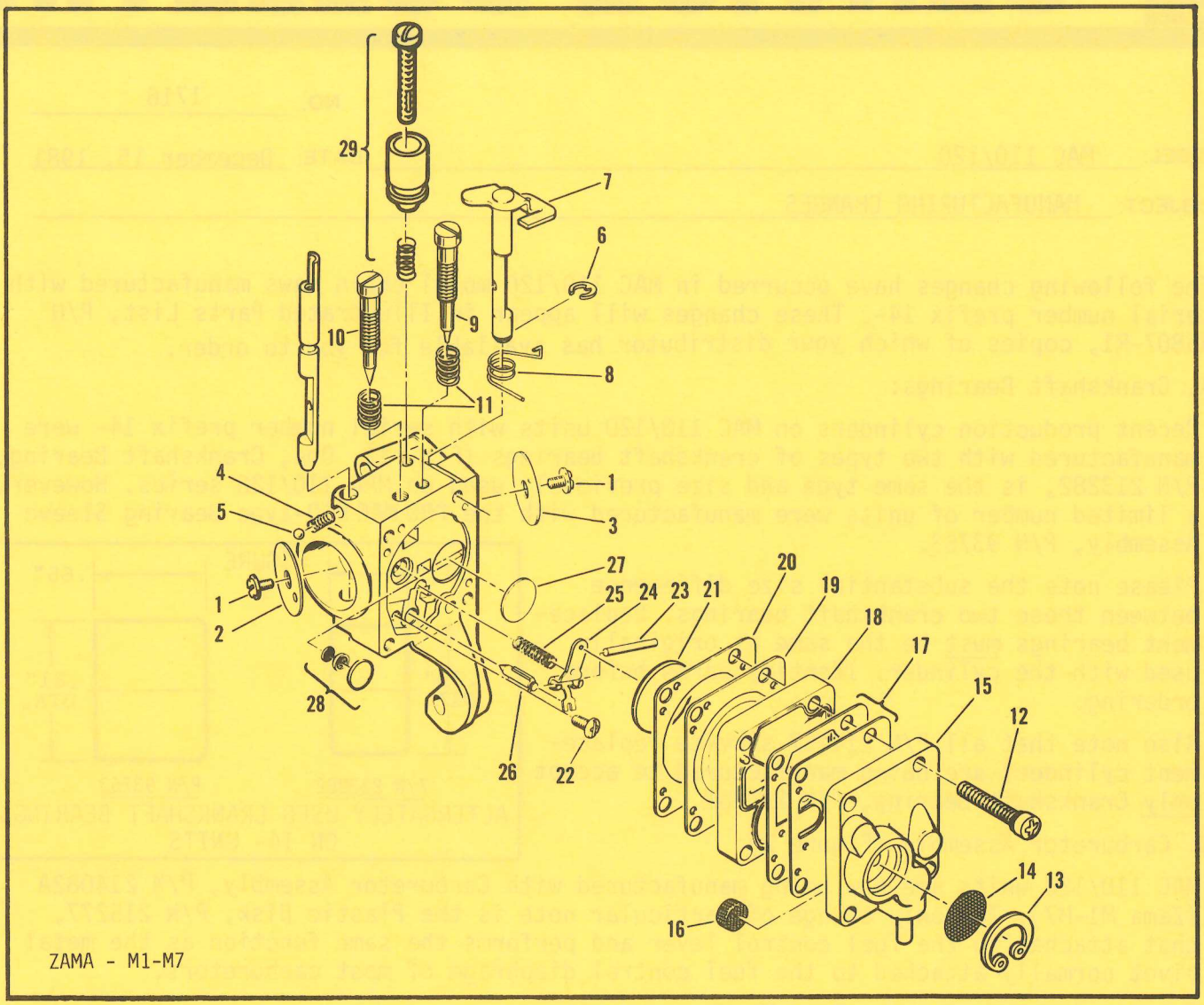
Low Speed Needle:	Seated, then 1-1/4 turn out.
High Speed Needle:	Seated, then 1-1/4 turn out.
High Speed Jet:	Flush to fuel chamber floor.
Inlet Lever (plastic disk removed):	Flush to chamber floor (±) .005".
Pressure Test (to inlet lever):	5 psi.

Pricing and stocking information for new parts contained in Carburetor Assembly, P/N 214082A, are contained in this table:

ITEM NO.	PART NUMBER	DESCRIPTION	MFG. LIST PRICE	SUGG. STOCK'G CODE
	214082A	Carburetor Asy (Zama M1-M7)	$37.40	B
2	215274	Valve - Choke	.90	A
7	215291	Shaft Assembly - Throttle	2.25	B
8	215286	Spring - Throttle return	1.05	A
9	215275	Screw - Idle adj.	1.55	C
10	215276	Screw - Main adj.	1.55	B
12	215279	Screw - Cover	.60	A
13	215283	"C" Ring	$ .30	A
14	215284	Strainer	.60	A
15	215285	Cover - Pump	16.30	A
18	215281	Body - Pump	3.40	A
19	215282	Diaphragm - Main	3.80	A
20	215280	Gasket - Main	.41	A
21	215277	Disk	.92	D
24	215278	Arm - Needle valve	1.85	B
28	215287	Valve Asy - Main	2.80	C
N/A	215292	Repair Kit	9.55	B

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Figure 2. Carburetor Assembly.



ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
	-214082A	① Carburetor Asy - Zama M1-M7	1
1	91804	. Screw - Plate	2
2	-215274	. Valve - Choke	1
3	91803	. Valve - Throttle	1
4	93955	. Spring - Choke	1
5	93956	. Ball - Friction	1
6	91805	. "E" Ring	1
7	-215291	. Shaft Assembly - Throttle	1
8	-215286	. Spring - Throttle return	1
9	-215275	②. Screw - Idle adjustment	1
10	-215276	②. Screw - Main adjustment	1
11	91819	②. Spring - Screw	2
12	-215279	. Screw - Cover	4
13	-215283	. "C" Ring	1
14	-215284	. Strainer	1

ITEM NO.	PART NUMBER	DESCRIPTION	UNITS PER ASY.
15	-215285	. Cover - Pump	1
16	91820	②. Screen	1
17	- -	②. Kit - Pump diaphragm	1
18	-215281	. Body - Pump	1
19	-215282	②. Diaphragm - Main	1
20	-215280	②. Gasket - Main	1
21	-215277	②. Disk	1
22	91814	②. Screw	1
23	91813	②. Pin - Arm	1
24	-215278	②. Arm - Needle valve	1
25	91811	②. Spring - Arm	1
26	91810	②. Valve - Needle	1
27	93951	. Plug - Welsh	1
28	-215287	②. Valve Asy - Main nozzle	1
29	93437	Latch Assembly - Throttle	1
	-215292	Repair Kit	

① One of two carburetors used. Identify parts before ordering.

② Contained in Repair Kit, P/N 215292.