SECTION VI-FUEL AND EXHAUST SYSTEM

Servicing of carburetors on 1959 models is essentially the same as on carburetors used on prior models. Complete servicing procedures can be obtained by referring to the 1957-58 *Plymouth Service Manual*. When servicing units refer to Data and Specifications Charts in this supplement for settings on 1959 model carburetors.

CARBURETOR

BALL AND BALL DUAL (CARTER)

The Ball and Ball Dual (Carter) carburetor used on the

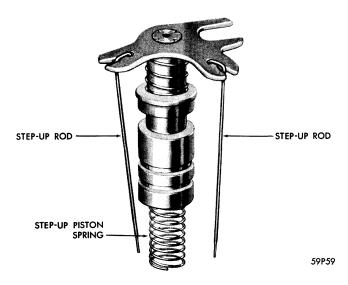


Figure 1—Step-up piston—Ball and Ball dual (Carter)

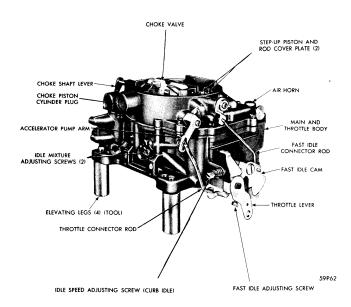


Figure 2—Four-barrel carburetor—Model AFB (Carter)—

left front view

Fury V-800 (318 cu. in.) engine incorporates α three stage main metering system which provides improved fuel metering for greater fuel economy under most operating conditions. The new system consists of α double spring controlled vacuum piston and α stepped metering rod. Under part throttle acceleration or higher car speeds, the new system provides an intermediate mixture without utilizing α full rich wide open throttle mixture, see Figure 1.

AFB-FOUR BARREL-CARTER

A four-barrel AFB Carter carburetor is available as optional equipment on Fury V-800 engines (318 cu. in.) and is standard on Golden Commando engines, see Figures 2 and 3. Refer to Data and Specifications for float settings and other adjustment settings.

CROSS-OVER CHOKE

A cross-over choke is used on all two-barrel and four-barrel carburetors. Other than an occasional cleaning, if necessary, the automatic choke requires no servicing. It is important that the choke operating rod works freely at the choke shaft and also at the coil housing. Move the choke rod up and down to check for free movement of the coil housing on the shaft. Make certain that the coil housing does not contact the sides of the well. Any contact will cause the choke to open late and may cause the choke to stay open after the engine has cooled — thus causing hard

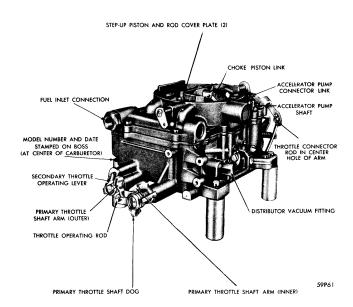


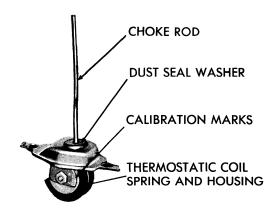
Figure 3—Four-barrel carburetor—model AFB (Carter)—right front view

FUEL SYSTEM DATA AND SPECIFICATIONS

Model			M 1	M 1 M 2	
			6-Cyl. V-8 Engine (318		e (318 cu in)
	Туре		Downdraft (single)	Downdraft (dual)	
etor			Carter	Carter	Stromberg
Carburetor	Model No.	Standard	BBS-2567S (A)	BBD-2864S (C)	WW 15-38 (D)
ਹ		Overdrive	BBS-2568S (A)	BBD-2865S (C)	WW 15-39 (D)
	Mo	PowerFlite	BBS-2569S (B)	BBD-2866S (C)	WW 15-40 (D)
Choke Control			Integral Automatic	Cross-over Automatic	
	Float Setting		7/32 in.	9/32 in.	7/32 in.
	Accelerator Pump		27/32 in.	1-1/8 in.	1/4 in.
Adjustments	Fast Idle		.016 in.—.020 in.	.015 in.	7-1/2 turns 1/4 in.
djustr	Fast Idle (rpm)		1400 (engine hot)		1300 (engine hot)
tor A	Unloader		9/64 in.	1/4 turn	15/64 in.
Carburetor	Idle Mixture		1/4 drill	l/4 turn	1-1/8 turn
ชื	Overdrive Kickdown Switch		1/64 in3/64 in.		
	PowerFlite Dashpot		3/32 in.		
ф	Туре		Mechanical Diaphragm		
Fuel Pump	Pressure		6-7 psi		
Fue	Make		Carter		
Fuel Tank Capacity			20 gals.—22 gals. (Suburban only)		
Manifold Heat Control			Thermostatic—Automatic		
Air Cleaner			Paper Element		
Choke Unit (Carter No.) (A) 170-N-312S (B) 170-X-312S			(C) 170-AV-464S (D) 387806		

starting. Do not lubricate any parts of the choke since this would cause dirt accumulation and result in binding of the choke mechanism. Check operation of choke piston by working choke valve back and forth. Check the small plug at the end of the choke piston. An air leak at this point would prevent proper operation of the choke blade and result in hard starting and poor fuel mileage.

The choke control unit can be disassembled for service by removing the hairpin clip and nut. Care should be used when assembling parts so that the coil spring is properly positioned on the shaft. Generally the choke will function properly if the index mark is set at a point half way between the L and R mark. If need be, set the mark toward rich or lean as required, see Figure 4.



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Figure 4—Cross-over type choke

FOUR BARREL CARBURETOR DATA AND SPECIFICATIONS

MODEL			M2 SUPER-PAK (318 cu. in.)	M2 GOLDEN COMMANDO (361 cu. in.)	
ī			Downdraft Four Barrel		
Carburetor	Model Number	Standard	AFB-2813S (A)	AFB-2855S (B)	
		Overdrive	AFB-2813S (A)		
		Automatic	AFB-2812S (A)	AFB-2856S (B)	
Choke Control			Cross-over Type—Automatic Set at Center Index Mark		
Carburetor Adjustments	Accelerator Pump Adjustment		7/16 in. from top of the bowl cover to the top of plunger shaft rod in center hole of pump arm		
	Fast Idle Throttle Valve Clearance		.012 in.		
	Choke Unloader		1⁄4 in.		
	Lever Adjustment		When lower edge of primary valve is % in. from bore (opposite idle port) secondary valves begin to open010030 in. between closing shoes when primary and secondary valves are closed		
bure	Idle Mixture		1/4 turn		
Car	Idle Speed		500 rpm		
	Float Level Setting		7/32 in.		
	Float Drop		23/32 in.		
	Fast Idle on Car		1400 rpm (engine hot)		
Choke Unit (Carter No.)			(A) 170—AU—516S	(B) 170—AU—515S	

