1966 Corvette: Service Bulletin: Automatic Choke Malfunction

Subject: Automatic Choke Malfunction
Model and Year: 1966 Passenger Cars with V-8 Engines
Source: Chevrolet Technical Service Bulletin
Bulletin No: TSB #66-6, DR #66-6
Section: VIm
Date: November 18, 1965

TO: ALL CHEVROLET DEALERS

An undisclosed number of early 1966 Chevrolets, Chevelles, Chevy II's and Corvettes with V-8 engines have been built with one or more of the following discrepancies in the remote automatic choke mechanism.

1. Choke thermostat assembly manufactured with the incorrect choke coil spring and/or the choke coil spring reversed.
2. Incorrect choke thermostat assembly and/or choke rod installed.
3. Choke rod incorrectly installed (upside down).
4. Incorrect choke vacuum break assembly on Rochester 4MV carburetor (Quadrajet).
5. Incorrect choke lever on Holley carburetor.
6. Incorrect carburetor on engine.

It should be noted that an important difference exists between the 327" (275 h.p.) engine choke operation and the remaining V-8 engines. That is, the direction of the thermostat operation between the two units is reversed. On the 327" (275 h.p.) application, the eye of the thermostat coil and the corresponding choke rod travels from a down position for closed choke relaxing upward for open choke. On the remaining V-8 engines (except 283 4

bbl. with integral choke), the thermostat operation is just the opposite, it travels from an up position from closed choke downward for open choke.

In interim 1966, choke thermostat assemblies and choke rods will be built as an assembly and will use a paint code identification system to alleviate manufacturing and assembly error.

In early 1966 vehicles, these discrepancies may result in customer complaints of rough idle, hard starting, rich fuel mixture, flooding and/or poor performance. When the above complaints are encountered, the choke mechanism should be checked for the correct installation of parts as outlined on the following pages.

CHOKE THERMOSTAT AND ROD IDENTIFICATION

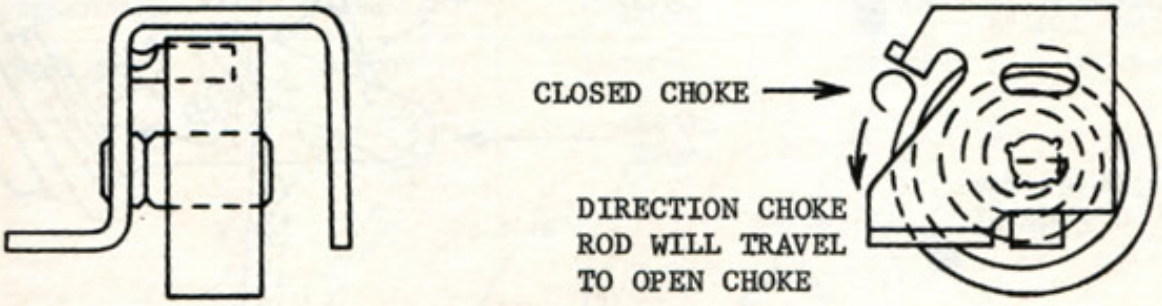


FIG. I - CHOKE THERMOSTAT ASSEMBLY - 283 V-8

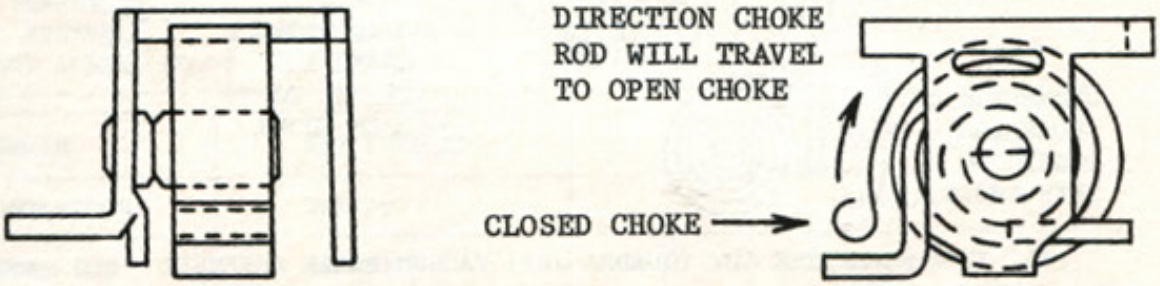


FIG. II - CHOKE THERMOSTAT ASSEMBLY - 327 V-8 (275 HP)

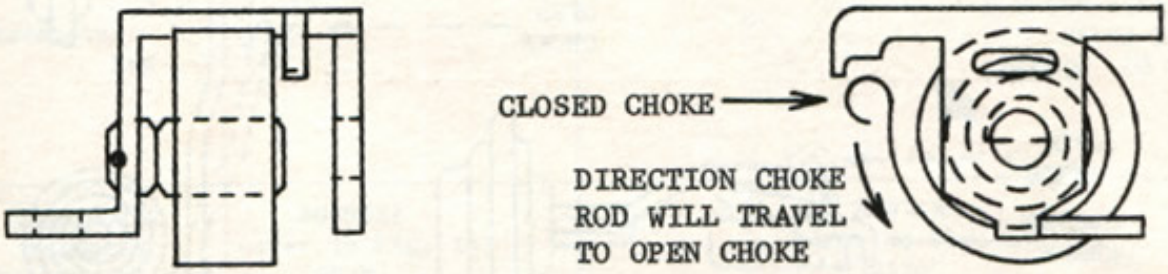


FIG. III - CHOKE THERMOSTAT ASSEMBLY - V-8 exc. 283 & 327 (275 HP)

NOTE: Choke thermostat assemblies, although similar in appearance, are not interchangeable. Check bracket design as shown in Figures I, II and III and the coil spring identification number shown on chart (Number stamped in coil, not number in ink). Choke coil springs are indexed to bracket and must not be interchanged or repositioned.

CHOKE THERMOSTAT AND ROD IDENTIFICATION (Cont'd)

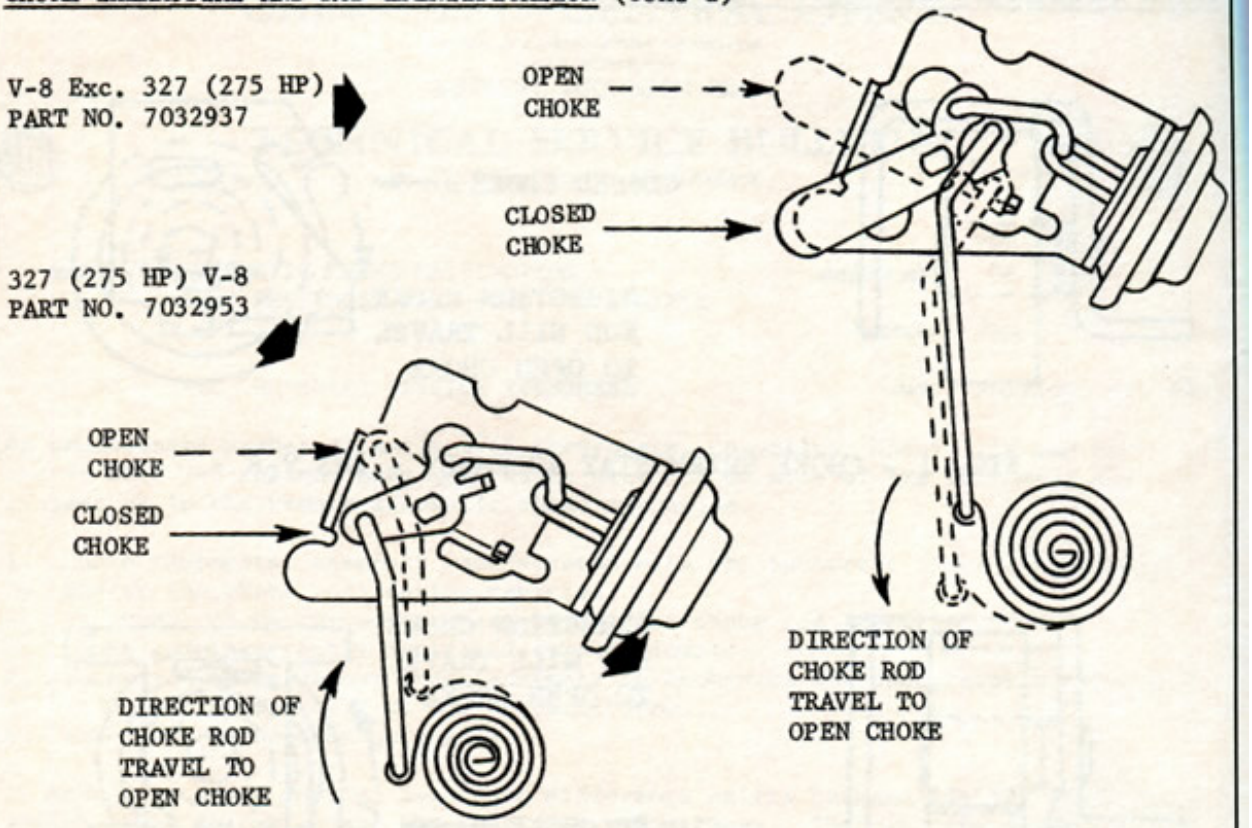


FIG. IV - ROCHESTER 4MV (QUADRA JET) VACUUM BREAK ASSEMBLY

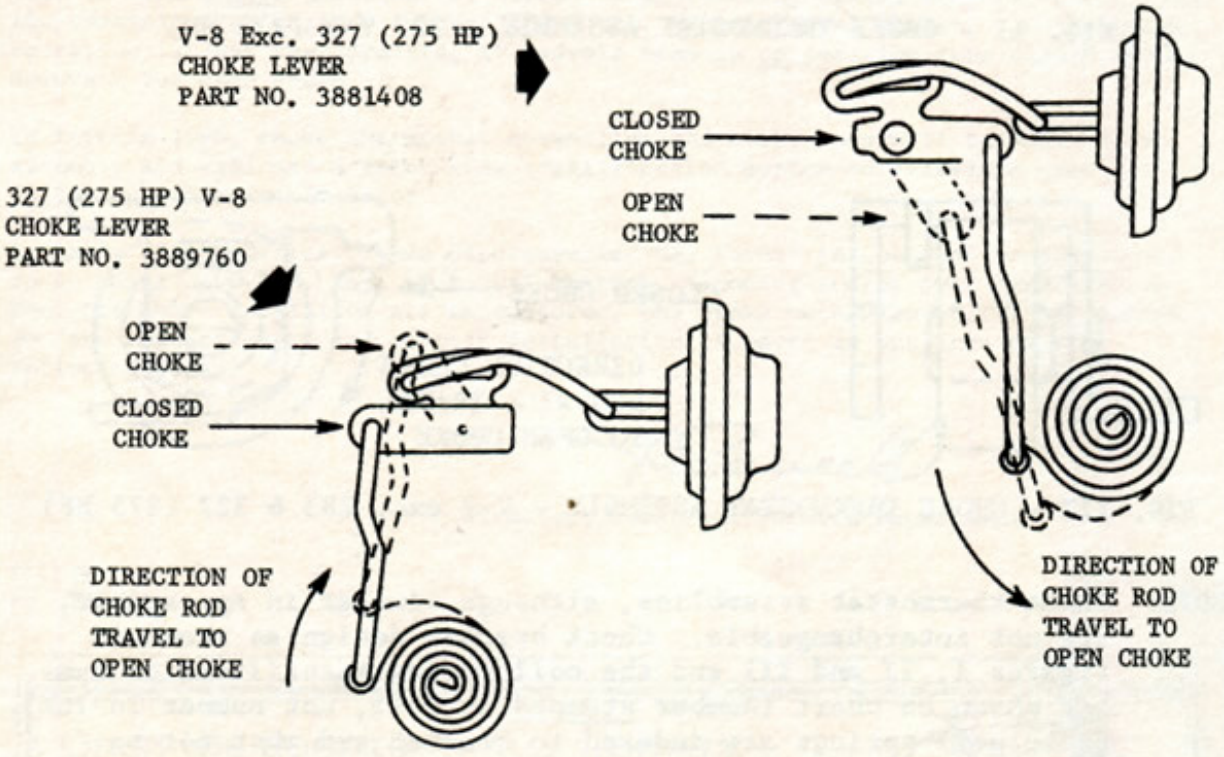
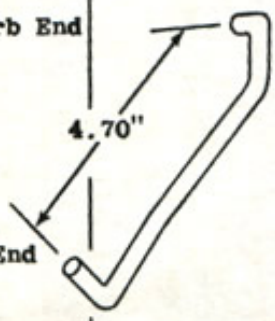
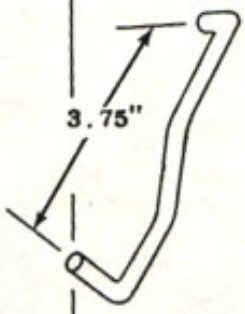
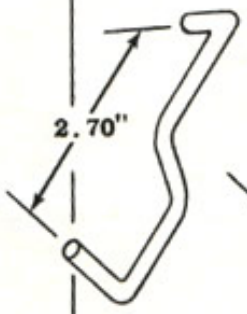
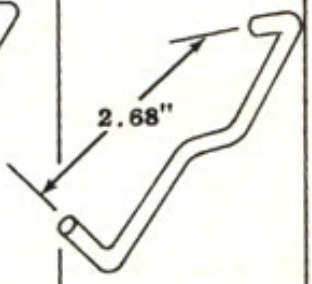
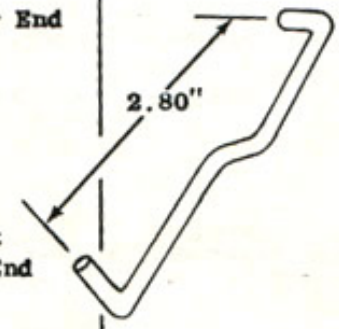
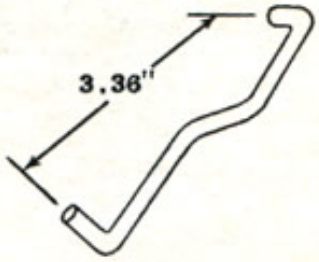


FIG. V - HOLLEY CHOKE LEVER AND VACUUM BREAK ASSEMBLY

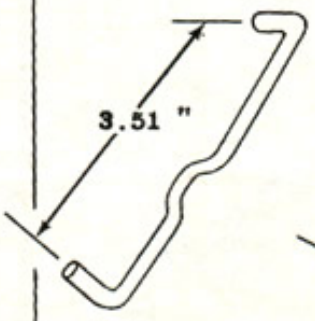
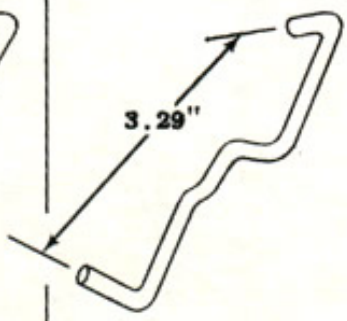
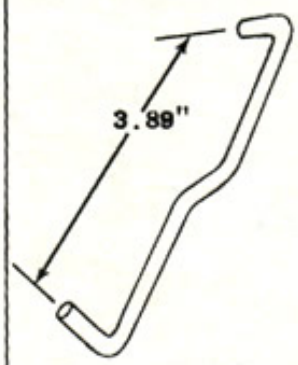
CHOKE THERMOSTAT AND ROD IDENTIFICATION (Cont'd)

ENGINE	283 2 BBL.	327 (275 HP)		
CARBURETOR	Rochester	Carter	Holley	Rochester
CHOKE ROD	3840907	3881867	3887112	3881868
	Carb End  Thermostat End	 	 	
THERMOSTAT ASSEMBLY COIL IDENT. NO.	3840909 Refer to Fig I "1262"	3887110 Refer to Fig. II "7108"	3887109 Refer to Figure II "9938"	

ENGINE	327 (300 HP)	327 (350 HP)
CARBURETOR	Holley	Holley
CHOKE ROD	3881866	3881888
	Carburetor End  Thermostat End	
THERMOSTAT ASSEMBLY COIL IDENT. NO.	3869926 Refer to Fig. III "9938"	Note 1 3887148 Refer to Fig. III "7149"

Note 1 - 3887148 Not available until approximately 12/1/65.

CHOKE THERMOSTAT AND ROD IDENTIFICATION (Cont'd)

ENGINE	396 (325 HP AND 360 HP) 427 (390 HP)		396 (375 HP) 427 (425 HP)
CARBURETOR	Holley	Rochester	Holley
CHOKE ROD	3886027	3874890	3885070
Carburetor End Thermostat End			
THERMOSTAT ASSEMBLY COIL IDENT. NO.	3869926 Refer to Fig. III "9938"		Note 1 3887148 Refer to Fig. III "7149"

ROCHESTER 4MV (QUADRAJET) VACUUM BREAK ASSEMBLY REPLACEMENT

1. Remove carburetor air horn as outlined on Page 6M-25 of the 1966 Chassis Overhaul Manual.
2. Remove retaining screw from choke vacuum break assembly, then remove assembly.
3. Remove choke lever from float bowl well.
4. Install choke vacuum break assembly as outlined on Page 6M-27, Steps 5, 6, and 7 of the 1966 Chassis Overhaul Manual.
5. Install carburetor air horn as outlined on Page 6M-29 of the 1966 Chassis Overhaul Manual.

HOLLEY CHOKE LEVER REPLACEMENT

Disconnect choke vacuum break link, then remove choke lever retainer and choke lever. Reverse procedure to replace.

PARTS AND LABOR DATA

	QUA.	PART NO.	PART DESCRIPTION	P	FC	L	T	OPERATION NO.	TIME
1.	A.R	*	Thermostat and/or Rod	X	58			G428012	.2 hr.
2.	A.R.	**	" " " "	X	58			G428091	.4 hr.
3.	1	7032937	Vacuum Break Assy	X	58			G430091	.5 hr.
4.	1	7032953	" " "	X	58			G430091	.5 hr.
5.	1	3881408	Choke Lever	X	58			G428092	.2 hr.
6.	1	3889760	" "	X	58			G428092	.2 hr.

* Choke thermostat and/or Rod - exc. for Carter on 327 Engine

** Choke thermostat and/or Rod - for Carter on 327 Engine

Online URL:
https://www.corvetteactioncenter.com/tech/knowledgebase/article/1966-corvette-service-bulletin-automatic-choke-malfunction-1059.html