

2. IGNITION TIMING

The 6-Cyl. and V-8 engine (with 2 barrel carburetors) are designed to operate on a good grade of regular gasoline. V-8 engines equipped with a four barrel carburetor are designed to operate at peak efficiency with premium gasoline.

The engine will give its best performance when timed to specifications. Degree timing marks are located on a bracket attached to the chain-case cover on all engines and range from 0 to 10 deg. ahead of top center, Figure 1.

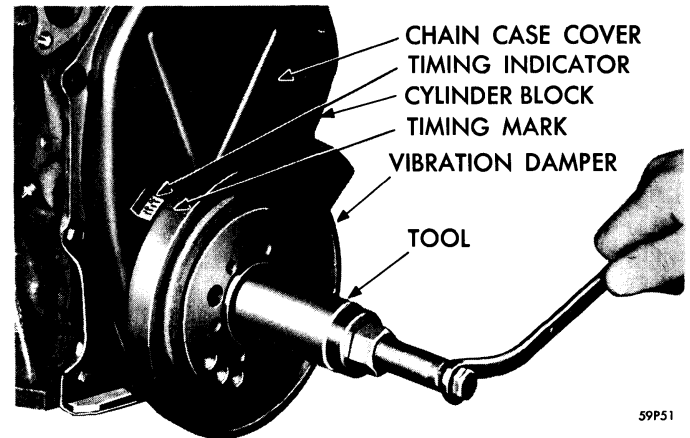


Figure 1—Timing marks—typical of all engines

SECTION III—STARTING SYSTEM

Increased starting performance is provided on 1959 models. For complete performance testing and servicing procedures, refer to the 1957-58 *Plymouth Ser-*

vice Manual. Refer to Data and Specifications chart in this manual when tests are performed.

STARTING MOTOR DATA AND SPECIFICATIONS

Models		M 1, M 2	
Starter Model		MDU-6003 (6-Cyl. and 318 cu. in. V-8)	MDT-6001 (361 cu. in. V-8)
Voltage		12 Volts	
No. of Poles		4	
No. of Brushes		4	
Spring Tension		32-48 oz.	
Drive		Folo—Thru	
End Play		.005 in. Min.	
Maximum allowable armature runout		.003 in.	
Free Running Test	Voltage	11 Volts	
	Amperage Draw	50 Amps. Max.	
	Minimum Speed rpm	5500 Min.	3800 Min.
Stall Torque Test	Torque Ft. Lb.	9	8.5
	Voltage	4	4
	Amperage Draw	355	350
	Pinion to Housing Clearance	.052 in. to .204 in. (including end play)	