

**327 CU. IN. ENGINE**

ENGINE VAC. @ IDLE 16"-20"
COMP. RATIO 8.0:1
150 PSI (MIN.)
MAX. VAR. 20 PSI
FIRING ORDER 1-8-4-3-6-5-7-2

HYD. LIFTERS — ZERO LASH + 1 TURN DOWN

IGNITION COIL

DELCO — 1115204
PRI. RES. 1.28-1.42 OHMS
SEC. RES. 7200-9500 OHMS
TEST SET LINE 8

IGNITION CURRENT
ENGINE STOPPED 4.0A — IDLING 1.8A

BALLAST RESISTOR

DELCO 1957154
1.8 OHMS @ 80° F.

CONDENSER CAPACITY

.18-.23 MFD

SPARK PLUGS

STAND. — AC 45
COLDER — AC 44
GAP — .035"

TORQUE — 20-25 FT./LBS.

IDLE SPEED

STAND. TRANS. 500
AUTO. TRANS. 500 (N)

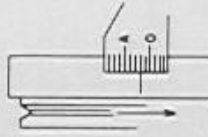
W/AIR COND. ON — HOLD HOT IDLE COMPENSATOR VALVE CLOSED WHEN MAKING IDLE SPEED ADJUSTMENT.

IGNITION TIMING

STAND. TRANS. 8° BTDC @ 500 RPM
AUTO. TRANS. 8° BTDC @ 500 RPM
DIST. VAC. DISCONNECTED AND PLUGGED

**IGNITION ADVANCE
AT 2500 ENGINE RPM**

1966-1967 TOTAL CENT. ONLY
13°-17° CENT. ONLY
13°-17°



SET TO SPECIFIED DEGREES EACH INCREMENT 2 DEGREES



FRONT OF ENGINE

DISTRIBUTOR**MECHANICAL ADVANCE**

1112795

DIST. RPM	DIST. DEG.
425	0°-2°
800	4½°-6½°
1600	8°-10°
2300	11°-13°

VACUUM ADVANCE

1112795

VAC.	DIST. DEG.
NONE	NONE

DISTRIBUTOR

1966-1967

Delco	1112795	C
Rotation	19-23 Oz.	
Spring Tension	30" (28°-32°)	
Dwell	.019" NEW	
Gap	.016" USED	
Dwell Variation	2" (MAX.)	

BETWEEN ENGINE IDLE AND 1500 RPM

STARTER FREE SPEED CURRENT DRAW

65-100 AMPS (INCLUDES SOLENOID) @ 10.6 VOLTS
3600-5100 RPM

BATTERY

12V NEG. GRD.
SMR — 55H
80 AH

CRANKING VOLTAGE
MIN. 9.0V

OPERATING VOLTAGE SETTING
14.0-14.8 VOLTS @ 75° F.

SECONDARY RESISTANCE — 3.0 MIN.
HI TENSION WIRE RESISTANCE 3000-7000 OHMS PER FOOT

SOLENOID CURRENT DRAW

HOLD IN WINDINGS BOTH WINDINGS
10½-12½ AMPS @ 10 VOLTS 42-49 AMPS @ 10 VOLTS

SOLENOID PULL IN VOLTAGE

7.7 VOLTS (MIN.)
SWITCH (S) TERMINAL OF SOLENOID AND GROUND

STARTING MOTOR CIRCUIT RESISTANCE

INSULATED CIRCUIT — 4 VOLTS
BATTERY POSITIVE POST TO SOLENOID STARTER MOTOR TERMINAL
BATTERY POSITIVE POST TO BATTERY TERMINAL OF SOLENOID — 2 VOLTS
BATTERY TERMINAL OF SOLENOID TO STARTER MOTOR TERMINAL OF SOLENOID — 2 VOLTS

GROUND CIRCUIT — 2 VOLTS
BATTERY NEGATIVE POST TO STARTER MOTOR HOUSING

SOLENOID CONTROL CIRCUIT — 3.5 VOLTS (MAX.)
BATTERY POSITIVE POST TO SOLENOID SWITCH (S) TERMINAL

FUEL PUMP

PRES. 5¼-6½ PSI @ 450-1000 RPM
VOL. 1 PT. 30-45 SEC. @ IDLE RPM

FUEL FILTERS

FUEL TANK — STRAINER
CARB. — INLET FILTER
REPLACE AS REQUIRED
FUEL PUMP — CERAMIC ELEMENT AND SEDIMENT BOWL

REPLACE ELEMENT AS REQUIRED
DISPOSABLE TYPE IN LINE BETWEEN FUEL PUMP AND CARB.

STANDARD

ALTERNATOR — MOTOROLA

MOTOROLA — A12NCC604

RATED OUTPUT — 55 AMPERE NEG. GRD.

CIRCUIT TYPE — RBT

ROTATION — CLOCKWISE

22 AMPERES @ 500 ENGINE RPM

CURRENT OUTPUT — 55 AMPS @ 15 VOLTS

MINIMUM — 50 AMPS @ 13 VOLTS

WHEN MEASURED AT BATTERY

ADD 5 AMPS TO CURRENT OUTPUT

FOR TOTAL OUTPUT

ENG. RPM — 2000

GEN. RPM — 5000

FIELD CURRENT — 1.8-2.4 AMPS

BELT TENSION FT./LBS.

NEW CAR INSPECTION — 80-110

NEW BELT — 110-120

USED BELT — 70-80

CHARGING CIRCUIT RESISTANCE

VOLTS @ 10 AMPS

.3V INS. CIR.

.05V GRD. CIR.

ROTOR FIELD CURRENT DRAW

2.1-2.7 AMPS @ 12.6 ± .2 VOLTS

WITH AIR COND.

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ROTOR FIELD CURRENT DRAW

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RECTIFIER DIODE TESTING

WITH 12V BULB AND 12V BATTERY

TEST LAMP LITES ONE DIRECTION
DIODE SATISFACTORY

TEST LAMP LITES BOTH DIRECTIONS
DIODE SHORTED

TEST LAMP DOES NOT LITE EITHER
DIRECTION — DIODE OPEN

WITH DIODE RECTIFIER TESTER

METER INDICATION 2 AMPS OR MORE
DIODE SATISFACTORY

METER INDICATION 1 AMP OR LESS
DIODE SHORTED

METER INDICATION ZERO
DIODE OPEN

REGULATOR — MOTOROLA 70C44238B01 — MOTOROLA — TVR12CCI

CIRCUIT TYPE — RBT

ISOLATION DIODE TEST

VOLTMETER CONNECTED POS. LEAD TO ALTERNATOR REGULATOR TERMINAL,
NEG. LEAD TO ALTERNATOR GROUND, WITH IGNITION SWITCH AND ALL
ACCESSORIES OFF VOLTMETER INDICATION SHOULD NOT EXCEED .1 VOLT.

REGULATOR TERMINAL VOLTAGE TEST

VOLTMETER CONNECTED POS. LEAD TO ALTERNATOR REGULATOR TERMINAL,
NEG. LEAD TO ALTERNATOR GROUND, WITH IGNITION SWITCH ON VOLTMETER
SHOULD INDICATE NOT LESS THAN 1/2 VOLT OR MORE THAN 2 VOLTS.

OPERATING VOLTAGE TEST

VOLTMETER CONNECTED POS. LEAD TO ALTERNATOR OUTPUT TERMINAL,
NEG. LEAD TO ALTERNATOR GROUND, ENGINE RPM 2000 WITH 10 AMP. MAX. LOAD,
14.0-14.8 VOLTS @ 75°F.

OPERATING VOLTAGE CHART

TEMPERATURE	VOLTAGE SETTING	TEMPERATURE	VOLTAGE SETTING
0°	14.6-15.4V	80°	13.9-14.7V
20°	14.4-15.2V	100°	13.8-14.6V
40°	14.2-15.0V	120°	13.7-14.5V
60°	14.1-14.9V	140°	13.6-14.2V
		160°	13.3-14.1V