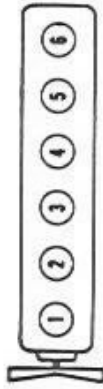


# 1966 CHECKER MOTORS

A11 6 CYL.  
A12 -A12W 230 CU. IN. ENGINE



## 230 CU. IN. ENGINE

ENGINE VAC. @ IDLE 17"-21"

COMP. RATIO 8.5-1

COMP. PRES. 130 PSI (Min.)

MAX. VAR. 15 PSI

FIRING ORDER 1-5-3-6-2-4

HYD. LIFTERS — ZERO LASH + 1 TURN

## IGNITION COIL

DELCO — 1115184

PRI. RES. 1.45-1.63 OHMS @ 80°F.

SEC. RES. 5600-6900 OHMS @ 80°F.

TEST SET LINE 8

IGNITION CURRENT

ENGINE STOPPED 4.0A — IDLING 1.8A

## BALLAST RESISTOR

1.8 OHMS

## CONDENSER CAPACITY

.18-.25 MFD

## SPARK PLUGS

STAND. — AC 46N

COLDER — AC 44N

GAP — .035"

TORQUE — 20-25 FT./LBS.

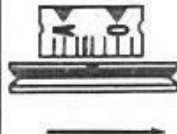
## IDLE SPEED

STAND. TRANS. 500

AUTO. TRANS. 475 (DR)

W/AIR COND. ON — HOLD HOT IDLE COMPENSATOR

VALVE CLOSED WHEN MAKING IDLE SPEED ADJUSTMENT.



SET TO SPECIFIED DEGREES  
EACH INCREMENT  
2 DEGREES

## IGNITION TIMING

STAND. TRANS. 4° BTDC @ 500 RPM

AUTO. TRANS. 4° BTDC @ 500 RPM

DIST. VAC. LINE DISCONNECTED AND PLUGGED

## IGNITION ADVANCE

AT 2500 ENGINE RPM

TOTAL CENT. VAC. CENT. ONLY

44°-48° 23°-27°



FRONT OF  
ENGINE

## DISTRIBUTOR

Delco

1110280

Rotation

C

Spring Tension

19-23 Oz.

Dwell

31°-34°

Gap

.019" NEW  
.016" USED

Dwell Variation

3° (MAX.)

BETWEEN IDLE AND 1500 RPM

## DISTRIBUTOR

### MECHANICAL ADVANCE

DIST. DEG.

RPM

400

600

750

1500

### VACUUM ADVANCE

VAC.

6"

14 1/2"

10 1/2"

DIST. DEG.

0°

10 1/2°

## STARTER FREE SPEED CURRENT DRAW

49-76 AMPS (INCLUDES SOLENOID) @ 10.6 VOLTS

6200-9400 RPM

## BATTERY

12V NEG. GRD.

50 AH

CRANKING VOLTAGE

MIN. 9.0V

## SOLENOID CURRENT DRAW

HOLD IN WINDINGS

10 1/2-12 1/2 AMPS @ 10 VOLTS

BOTH WINDINGS

42-49 AMPS @ 10 VOLTS

## SOLENOID PULL IN VOLTAGE

7.7 VOLTS (MIN.)

## STARTING MOTOR CIRCUIT RESISTANCE

INSULATED CIRCUIT — .4 VOLT

BATTERY POSITIVE POST TO BATTERY TERMINAL OF SOLENOID — .2 VOLT

BATTERY TERMINAL OF SOLENOID TO MOTOR TERMINAL OF SOLENOID — .2 VOLT

GROUND CIRCUIT — .2 VOLT

SOLENOID CONTROL CIRCUIT — 3.5 VOLTS (MAX.)

## FUEL PUMP

PRES.

3 1/2-4 1/2 PSI @ 450-1000 RPM

VOL.

1 FT. 30-45 SEC. @ IDLE RPM

## FUEL FILTERS

FUEL TANK — STRAINER

CARB. — INLET FILTER

SERVICE AS REQUIRED

FUEL PUMP — CERAMIC

ELEMENT AND SEDIMENT

BOWL

REPLACE ELEMENT

AS REQUIRED

### STANDARD

#### ALTERNATOR — MOTOROLA

MOTOROLA — A12NCC454  
RATED OUTPUT — 35 AMPERE NEG. GRD.  
CIRCUIT TYPE — RBT

ROTATION — CLOCKWISE  
15 AMPERES @ 500 ENGINE RPM  
CURRENT OUTPUT — 33 AMPS @ 15 VOLTS  
MINIMUM — 25 AMPS @ 13 VOLTS  
WHEN MEASURED AT BATTERY

ADD 3 AMPS TO CURRENT OUTPUT  
FOR TOTAL OUTPUT

ENG. RPM — 2000  
GEN. RPM — 5000  
FIELD CURRENT 1.2-1.7 AMPS @ 10 VOLTS  
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

2.0-2.6 AMPS @ 12.6 ± .2 VOLTS

### WITH AIR COND.

#### ALTERNATOR — MOTOROLA

MOTOROLA — A12NCC604 MOTOROLA — A12NCC603  
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 3 AMPS TO CURRENT OUTPUT  
FOR TOTAL OUTPUT

ENG. RPM — 2000  
GEN. RPM — 5000  
FIELD CURRENT — 1.8-2.4 AMPS @ 10 VOLTS  
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

#### 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 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 ½ 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