

1965 CHECKER MOTORS

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

1965 CHECKER MOTORS



230 CU. IN. ENGINE

ENGINE VAC. @ IDLE 17"-21"

COMP. RATIO 8.5-1

COMP. PRES. 130 PSI (Min.)

MAX. VAR. 20 PSI

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

HYD. LIFTERS — ZERO LASH + 1 TURN DOWN

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

LOOM — 1.8 OHMS

CONDENSER CAPACITY

.18-.23 MFD

SPARK PLUGS

STAND. — AC 46N

COLDER — AC 44N

GAP — .035"

TORQUE — 20-25 FT./LBS.

IDLE SPEED

STAND. TRANS. 450-500

AUTO. TRANS. 500 DR

W/AIR COND. IDLE COMPENSATOR CLOSED

DIST. VAC. LINE DISCONNECTED AND PLUGGED WHEN MAKING IDLE SPEED ADJUSTMENT

IGNITION TIMING

STAND. TRANS. 4° BTDC @ IDLE RPM

AUTO. TRANS. 4° BTDC @ IDLE RPM

DIST. VAC. LINE DISCONNECTED AND PLUGGED

IGNITION ADVANCE AT 2500 ENGINE RPM

TOTAL 46°

CENT. ONLY 25°



SET TO SPECIFIED DEGREES EACH INCREMENT 2 DEGREES



FRONT OF ENGINE

DISTRIBUTOR

MECHANICAL ADVANCE

DIST. RPM	DIST. DEG.
400	0°
600	5°
750	7½°
1500	15°

VACUUM ADVANCE

VAC.	DIST. DEG.
6"	0°
14½"	10½°

SECONDARY RESISTANCE — 3.0 MIN.

DISTRIBUTOR

Delco

1110280

C

Rotation 19-23 Oz.

Spring Tension 31"-34"

Dwell .019" NEW

Gap .016" USED

Dwell Variation 3° (MAX.)

BETWEEN IDLE AND 1750 RPM

SOLENOID CURRENT DRAW

HOLD IN WINDINGS

10½-12½ AMPS @ 10 VOLTS

BOTH WINDINGS

42-49 AMPS @ 10 VOLTS

SOLENOID PULL IN VOLTAGE

7.7 VOLTS MIN.

STARTING CIRCUIT RESISTANCE

INSULATED CIRCUIT — .4 VOLT

GROUND CIRCUIT — .2 VOLT

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

SOLENOID CONTROL CIRCUIT — .35 VOLT

FUEL PUMP

PRES.

3½-4½ PSI @ 450-1000 RPM

VOL.

1 PT. 30-45 SEC. @ IDLE RPM

FUEL FILTERS

FUEL TANK — STRAINER

CARB. — INLET FILTER

SERVICE AS REQUIRED

FUEL PUMP — CERAMIC

ELEMENT AND SEDIMENT

BOWL

STARTER FREE RUNNING CURRENT DRAW

49-76 AMPS (INCLUDES SOLENOID) @ 10.6 VOLTS

6200-9400 RPM

BATTERY

12V NEG. GRD.

50 AH

CRANKING VOLTAGE

MIN. 9.0V

STANDARD

ALTERNATOR -- MOTOROLA

MOTOROLA - A12NCC454

RATED OUTPUT - 35 AMPERE NEG. GRD.

CIRCUIT TYPE - RBT

ROTATION - CLOCKWISE

CURRENT OUTPUT - 33 AMPS @ 15 VOLTS

ADD 3 AMPS TO CURRENT OUTPUT FOR TOTAL OUTPUT

MINIMUM - 25 AMPS @ 13 VOLTS

ENG. RPM - 2000
GEN. RPM - 5000

FIELD CURRENT - 2.0-2.6 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

2.3-2.9 AMPS @ 12.6 ± .2 VOLTS

WITH AIR COND.

ALTERNATOR -- MOTOROLA

MOTOROLA - A12NCC604

RATED OUTPUT - 55 AMPERE NEG. GRD.

CIRCUIT TYPE - RBT

ROTATION - CLOCKWISE

CURRENT OUTPUT - 55 AMPS @ 15 VOLTS

ADD 3 AMPS TO CURRENT OUTPUT FOR TOTAL OUTPUT

MINIMUM - 50 AMPS @ 13 VOLTS

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

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 -- TVRCCI

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°	14.0-14.8V
20°	14.6-15.3V	100°	13.8-14.6V
40°	14.3-15.0V	120°	13.7-14.5V
60°	14.1-14.9V	140°	13.6-14.4V
		160°	13.3-14.1V