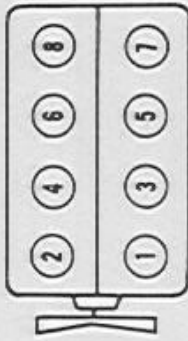


1965 CHECKER MOTORS

A11
A12-A12W

V8 ENGINE
283 CU. IN.

1965 CHECKER MOTORS



283 CU. IN. ENGINE

ENGINE VAC. @ IDLE 17"-21"
COMP. RATIO 9.25-1
COMP. PRES. 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 @ 80°F.
SEC. RES. 7200-9500 OHMS @ 80°F.
TEST SET LINE 8
IGNITION CURRENT
ENGINE STOPPED 4.0A — IDLING 1.8A

BALLAST RESISTOR

LOOM — 1.41-65 OHMS

CONDENSER CAPACITY

.18-.23 MFD

SPARK PLUGS

STAND. — AC 45
COLDER — AC 44
GAP — .035"
TORQUE — 20-25 FT./LBS.

IDLE SPEED

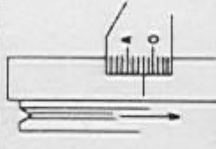
STAND. TRANS. 500
AUTO. TRANS. 500 DR
W/AIR COND.
HOD IDLE COMPENSATOR VALVE CLOSED
WHEN MAKING IDLE ADJUSTMENT

IGNITION TIMING

4° BTDC @ 500 RPM
DIST. VAC. LINE DISCONNECTED AND PLUGGED

IGNITION ADVANCE AT 2500 ENGINE RPM

TOTAL 36°
CENT. ONLY 21°



SET AS SHOWN
EACH INCREMENT
2 DEGREES



FRONT OF
ENGINE

DISTRIBUTOR

MECHANICAL ADVANCE

DIST. RPM	DIST. DEG.
400	0°
600	3 1/2°
1200	10°
2000	15°

VACUUM ADVANCE

VAC.	DIST. DEG.
6"	0°
15 1/2"	7 1/2°

SECONDARY RESISTANCE — 3.0 MIN.

DISTRIBUTOR

Delco
Rotation
Spring Tension 19-23 Oz.
Dwell 30° (28°-32°)
Gap .019" NEW
.016" USED
Dwell Variation 2° (MAX.)
BETWEEN IDLE AND 1500 RPM

1111015 C

19-23 Oz.
30° (28°-32°)
.019" NEW
.016" USED
2° (MAX.)

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 PULL IN VOLTAGE

7.7 VOLTS (MIN.)

SOLENOID CURRENT DRAW

HOLD IN WINDINGS
10 1/2-12 1/2 AMPS @ 10 VOLTS
BOTH WINDINGS
42-49 AMPS @ 10 VOLTS

STARTING MOTOR CIRCUIT RESISTANCE

INSULATED CIRCUIT — 4 VOLT
BATTERY POSITIVE POST TO SOLENOID BATTERY TERMINAL — .2 VOLT
BATTERY NEGATIVE POST TO STARTER MOTOR HOUSING — .2 VOLT
SOLENOID BATTERY TERMINAL TO SOLENOID MOTOR TERMINAL — .2 VOLT
SOLENOID CONTROL CIRCUIT — 3.5 VOLTS (MAX.)

FUEL PUMP

PRES.
5 1/4-6 1/2 PSI @ 450-1000 RPM
VOL.
1 PT. 30-45 SEC. @ IDLE RPM

FUEL FILTERS

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

STANDARD ALTERNATOR — MOTOROLA

MOTOROLA — A12NC454

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 — A12NC604

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