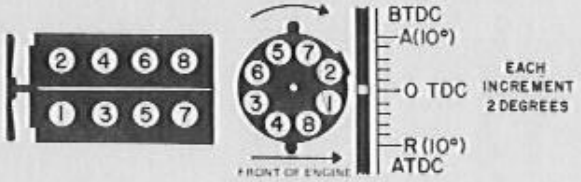
093 1970 CHECKER MOTORS

AEROBUS V8 200 HP 350 CU. IN. TURBO FIRE W/2 BBL. CARB.

ENGINE 350 Cu. In.



Firing Order	1-8-4-3-6-5-7-2
Hyd. Lifters	Zero Lash + 1 turn down
Comp. Ratio	9.0-1
Comp. PSI (min.)	160
(max. var.)	20

BATTERY

12V Neg. Grd.

Standard	H11-50	50AH
Optional		80AH
Cranking Voltage (min.)	9.0v	

CHARGING SYSTEM

(measured at battery)	Standard	Optional
Output (min.)	30A	50A
Operating Voltage	14.0-14.8v	14.0-14.8v

IDLE

Engine Vac. 17"-21"

RPM-(apply park brake firmly)
(automatic load leveler motor-inactive)

W/AIR CLEANER REMOVED-plug eng. vac. supply port.
Dist. Vac. Hose Disconnected and Plugged
W/E.C.S. Disconnect fuel tank line at vapor canister.
HOT IDLE COMPENSATOR VALVE-must be seated.

		IDLE STOP SOLENOID "A" Active	"B" Active	"C" Inactive
With Air Cond.-Off				
Manual Trans.	750	830	750	450
Auto Trans. (DR)	600	630	600	450

DWELL

(Degrees) Dist. Vac. Hose Disconnected and Plugged

At Idle	30 (28-32)
Variation	2 (between idle and 1500 RPM)

IGNITION TIMING

(Degrees) Dist. Vac. Hose Disconnected and Plugged

Manual Trans.	0 TDC @ Idle RPM
Auto Trans.	4 BTDC @ Idle RPM

IGNITION ADVANCE (degrees @ 2500 RPM)

Disconnect wire connector at T.C.S. vacuum advance solenoid. Mounted at RH side of engine near carb. base.

	Cent. Only
Manual Trans.	15½-19½
Auto Trans.	15½-19½

Reconnect vacuum solenoid wire connector an audible click should be heard at vac solenoid.

SPARK PLUGS

AC	R44
Gap	.035"
Torque	25Ft/Lbs.

IDLE MIXTURE

Air Cleaner Installed-Vac. Hose Connected
Dist. Vac. Hose Disconnected and Plugged
W/E.C.S.-Disconnect fuel tank line at vapor canister.
Turn mixture screws clockwise (lean) until lightly seated, then back out each mixture screw four turns.
Adjust solenoid idle stop screw to obtain "A" RPM, turn mixture screws clockwise (lean) as required to obtain "B" RPM. Disconnect idle stop solenoid wire connector and adjust carb. throttle stop screw as required to obtain "C" RPM. Reconnect idle stop solenoid wire connector. Reconnect Dist. Vac. Hose and Fuel Tank Line.

CARBURETOR

Rochester 2GV

Manual Trans.	7040213
Auto Trans.	7040123

THERMO AIR CLEANER

Engine off and underhood temp. below 85°F, Snorkel Passage should be open-Heat off position.
Engine at idle speed and underhood temp. below 85°F. Snorkel Passage should be closed-Heat on position. With underhood temp. 85°F-128°F, Snorkel Passage control damper door should begin to open (heat off). Underhood temp. above 128°F, Snorkel Passage should be open-Heat off position.
With a min of 9" vac. applied to diaphragm assy., damper door should completely close Snorkel Passage.

FUEL PUMP

Press.	5-6½ PSI @ 450-1000 RPM
Vol.	1 pt. 30-45 sec. @ Idle RPM

Filter (carb. inlet nut) Replace element every 12,000 miles or 12 months.
Filter (fuel tank) Stariner-Service as required.
Filter (evaporator control system) Replace vapor canister filter every 12,000 miles or 12 months.

DISTRIBUTOR

		Manual Trans.	Auto Trans.
Delco		1111338	1111338
Rotation		C	C
Spring Tension (oz.)		19-23	19-23
Gap (inch)	New	.019	.019
	Used	.016	.016
Dwell (Degrees)		30 (28-32)	30 (28-32)
Variation (Degrees)		2	2
Condenser Capacity		.18-.23MFD	

MECHANICAL ADVANCE

1111338		1111338	
Dist. RPM	Dist. Deg.	Dist. RPM	Dist. Deg.
600	1-3	600	1-3
1000	6-8	1000	6-8
2050	13-15	2050	13-15

VACUUM ADVANCE

In. Vac.	Dist. Deg.	In. Vac.	Dist. Deg.
NONE		NONE	

IGNITION COIL

(ohms @ 80°F)

Delco	1115275
Pri. Res.	1.77-2.05
Sec. Res.	3000-20,000
Test Set Line	8
Ballast Resistor	
External	1.35

IGNITION CURRENT

Engine Stopped	4.0A
Idling	1.8A

HI TENSION WIRE RESISTANCE

Coil to Dist. Cap	10000 ohms ohms per foot (max)
Spark Plug Wires	10000 ohms per foot (max)

CRANKING CIRCUIT RESISTANCE

Insulated Circuit
Bat. Pos. Post to Starter Motor Terminal of Solenoid-.4v
(Pos. battery cable only- .2v)
(Solenoid contacts- .2v)
Ground Circuit
Bat. Neg. Post to Starter Motor Housing-.2v

STARTER FREE RUNNING CURRENT DRAW

Delco 1108427 Ring Gear 12¾"
55-80A (includes solenoid) @ 9.0v RPM 3500-6000
(Ultra Hihg) Delco 1108430 Ring Gear 14"
65-95A (includes solenoid) @ 9.0v RPM 7500-10500

SOLENOID CURRENT DRAW

Hold in Windings 14½-16½A @ 10v
Both Windings 41-47A @ 10v

SOLENOID PULL IN VOLTAGE

SW (S) Term. of Solenoid and Ground-7.7v (min.)

SOLENOID CONTROL CIRCUIT

Bat. Term. of Solenoid to SW (S) Term. of Solenoid-3.5v (max.)

MOTOROLA ALTERNATOR MODEL	CIRCUIT	REGULATOR	ROTATION	COLD OUTPUT When Measured at Battery Add 5 Amps. to Current Output for Total Output	ENGINE RPM	GEN RPM	FIELD CURRENT	BELT TENSION FT/LBS.
Standard 70D44790B	35 Ampere RBT	TVR12CCI 70C44238BO1	Clockwise	15 Amperes 35 Amps. @ 15 Volts	500 2000	5000	2.0-2.6 Amps. Bench Testing Rotor Current Draw 2.3-2.9 Amps. @ 12.4-12.8v	New 110-120 Used 70-80
W/Air Cond. Optional 70D44791B	55 Ampere RBT	TVR12CCI 70C44238BO1	Clockwise	22 Amperes 55 Amps. @ 15 Volts	500 2000	5000	1.8-2.4 Amps. Bench Testing Rotor Current Draw 2.1-2.7 Amps. @ 12.4-12.8v	110-120 70-80

MOTOROLA REGULATOR

MODEL TVR12CCI CIRCUIT TYPE-RBT
70C44238BO1
12 Volts-Neg. Grd.

CHARGING CIRCUIT RESISTANCE

Operate engine at 1000 RPM with 10 amp. load, Voltmeter pos. lead connected to alternator output terminal, Voltmeter neg. lead connected to positive battery cable, meter indication not to exceed:

With Ind. Light-0.3 volts
Grd. Cir. .05v
Reg. Grd. .05v

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

Temp. Deg.	0	20	40	60	80	100
Setting (min.)	14.6	14.4	14.2	14.1	13.9	13.8
Volts (max.)	15.4	15.2	15.0	14.9	14.7	14.6

Temp. Deg.	120	140	160
Setting (min)	13.7	13.6	13.3
Volts (max.)	14.5	14.2	14.1

RECTIFIER DIODE TESTING

WITH DIODE RECTIFIER TESTER

Meter Indication 2 Amps. or More	Diode Satisfactory
Meter Indication 1 Amps. or less	Diode Shorted
Meter Indication Zero	Diode Open

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