

Standards of Adjustment

ELECTRICAL SYSTEM

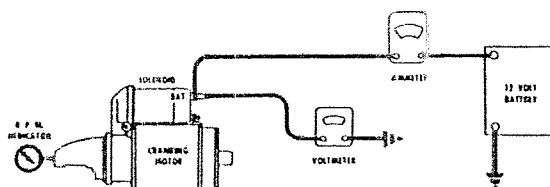
12-VOLT BATTERY AND CABLES

DELCO-REMY - No. 456 (Std.) Capacity - 35 Amp. Hour
(20 Hour Rate)
No. 556 (Hvy Duty) Capacity - 40 Amp. Hour
Negative Terminal Grounded

CABLES - PACKARD

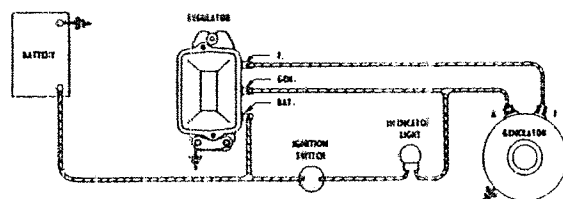
Battery to Switch - Length 49" Part No. CP-50
Battery to Ground - Length 13" Part No. IT-15

STARTING MOTOR



DELCO-REMY - No. 1108304
DRIVE - No. 1946221
FREE RUNNING SPEED - 6750-8600 Min. R.P.M. 58-80 Amps. 10.6 Volts
LOCK TORQUE (STALLED) - 280-320 Max. Amps. 4.0 Volts
SOLENOID SWITCH - 1119919

GENERATOR



DELCO-REMY - No. 1100357 (Early)
No. 1102226 (Late)
COLD OUTPUT:
(1100357) 30 Amps. 14 Volts at 2900 Generator R.P.M.
(1102226) 30 Amps. 14 Volts at 2240 Generator R.P.M.
BRUSH SPRING TENSION - 28 oz.
ROTATION - Counterclockwise - (Viewing Drive End)

REGULATOR

DELCO-REMY - No. 1119261 (Early)
No. 1119001 (Late)

	Cut-Out Relay	Current Reg.	Voltage Regulator
Air Gap	.020"	.075"	
Point Opening	.020"		
Adjusting Specs.	11.8-13.5 Vts*	27-33 Amps.*	13.8-14.8 Vts* (1119261)
	11.8-13.5 Vts*	27-31 Amps.*	13.8-14.8 Vts* (1119001)

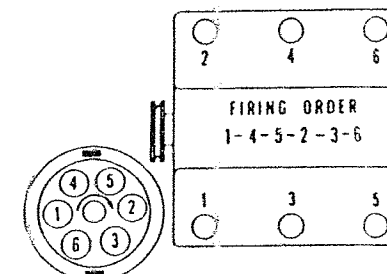
* At 125° F. regulator ambient temperature.

DISTRIBUTOR

DELCO-REMY - No. 1110258 (Syn.)
No. 1110259 (P.G.)
No. 1110260 (Pwr. Pak)
Breaker Contact Gap - .016" (Syn. Only)
Cam Angle - 31° - 35°
Breaker Contact Set - Part No. 1945376
Breaker Arm Spring Tension - 19-23 oz.
Condenser - Part No. 1928111
Capacity - .18 - .23 Mfd.
Rotation - Clockwise (Viewed from top of distributor)
Vacuum Control - 1116152 (Syn); 1116177 (PG); 1116176 (Pwr.); (Syn) 5-7" hg. to start plunger travel, 11.5° maximum distributor advance at 14.5"-16.0" hg.; (PG) 6"-8" hg. to start plunger travel, 11.5° maximum dist. adv. at 15.5"-17.0" hg.; (Pwr.) 7"-9" hg. to start plunger travel, 7.5° max. dist. adv. at 15"-16" hg.
Automatic Advance -

	1110258	1110259
Start	0°- 2° @ 400 RPM	0°- 2° @ 950 RPM
Intermediate	7°- 9° @ 1050 RPM	4°- 6° @ 1325 RPM
Maximum	15°-17° @ 1800 RPM	9°-11° @ 1800 RPM
	1110260	
Start	0°- 2° @ 425 RPM	
Intermediate	2.25°-4.25° @ 600 RPM	
Intermediate	6°- 8° @ 1375 RPM	
Maximum	11°-13° @ 2400 RPM	

DISTRIBUTOR (Cont'd.)



ENGINE COMPRESSION -
130 lbs. - 20 lb between Cylinders

SPARK PLUGS

AC - Type 46FF Gap .035" Size 14mm.
Use Round Wire Gauge

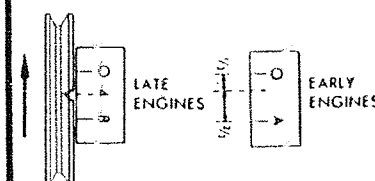
IGNITION COIL

DELCO-REMY - No. 1119121 (Early)
No. 1119135 (Late)

HIGH TENSION CABLE

Ignition Set - PACKARD No. 446-RB

IGNITION TIMING



USE TIMING LIGHT -
Breaker points to open
4° (16° Canada - P.G.)
before top dead center
at idle. Timing mark
location - crankshaft
pulley.

FUEL SYSTEM

FUEL PUMP

AC - No. 4704
Capacity - 1 pint or over in 1 minute
Pressure - 7-1/2 lbs. min., 8-3/4 lbs. max.



Standards of Adjustment

AIR CLEANER

AC - No. 5645810 (U.S.)
No. A-99C (Canada)

CARBURETOR

ROCHESTER - MODEL H - No. 7015300 (PowerGlide & Synchronesh-Early)
No. 7015310 (PowerGlide-Late)
No. 7015311 (Synchronesh-Late)

FLOAT LEVEL - 1-13/64" (Gauge BT-174) between gasket and top of floats (air horn inverted)

FLOAT DROP - 1-3/4" (Gauge BT-174) between lower edge of float and gasket (air horn upright)

BIXED JETS -

Main Metering Jet - Part No. 7002952 (PG & Syn. Early)
No. 7002950 (PG Late)
No. 7002951 (Syn. Late)

IDLE ENGINE SPEED - Idle between 450-500 R.P.M. (Syn.); 475-500 R.P.M. (Auto.) in drive

AUTOMATIC CHOKE - Set on index.

PUMP ADJUSTMENT - Back out idle stop screw until throttle valves are completely closed in bore. Bend pump rod until the index line on upper pump lever just aligns with sharp edge on air horn casting.

UNLOADER ADJUSTMENT - With throttle wide open there should be .250" between upper edge of choke valve and inner wall of air horn.

NOTE: The SYMBOL "hg. used on this chart designates "Inches Vacuum" (Mercury).

Original equipment service parts and accurate work to manufacturers' specifications with proper tools and equipment will restore original performance.

MISCELLANEOUSVALVES

VALVE CLEARANCE - Hydraulic valve lifters

VALVE TIMING - Intake valves open at 15° before top dead center.

COOLING SYSTEMAIR-COOLED

Bellows Type - Location - lower part of plenum
Bellows Opens - 177° - 183° F.

WINDSHIELD WIPERDELCO & TRICO

Service Motor No. 4907093 (Delco)
Wiper Arm (Both Sides) No. AL-250 (Trico)
Blade (Both Sides) No. RB-15-2 (Trico)

ADDITIONAL SPECIFICATIONSGAUGES - AC

Gasoline Gauge - Dash Unit No. 5643032
Tank Unit No. 5640382
Oil Pressure Gauge - Motor Unit No. 1508753

SPEEDOMETER - AC - No. 1588001
Cable No. 1584405 - 139-1/8"

CRANKCASE CAPACITY - 4 Quart - Refill

OIL FILTER - AC - No. PF-4

IGNITION LOCK - BRIGGS & STRATTON

Part No. 601841
Key Blank Part No. 32318
Key Series No. 8000-9499

RECOMMENDED TIRE PRESSURE -
15 lbs. front, 20 lbs. rear

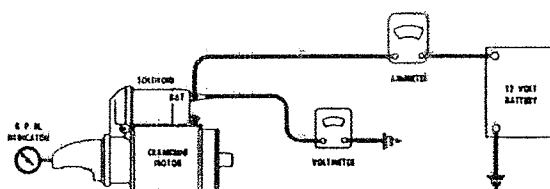
Standards of Adjustment

ELECTRICAL SYSTEM

12-VOLT BATTERY

DELCO-REMY - No. 456 (Std.)-(U.S.) Capacity - 35 Amp. Hr.
(20 Hour Rate)
No. 556 (Opt.-U.S. & Std. Can.) Capacity - 42 Amp. Hr.
Negative Terminal Grounded

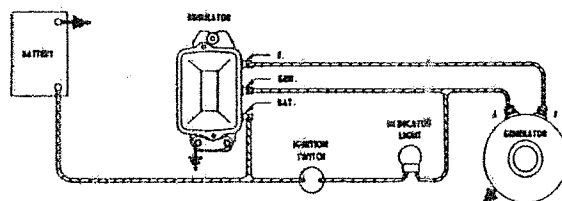
STARTING MOTOR



DELCO-REMY - No. 1108306 (Std.); No. 1108307 (P.G.)
DRIVE - No. 1946221

FREE RUNNING SPEED - 6750-10,500 Min. R.P.M. 58 Amps. 10.6 Volts
RESISTANCE TEST - 280 Amps. 4.0 Volts
SOLENOID SWITCH - 1119910

GENERATOR



DELCO-REMY - No. 1102227 (U.S.)
No. 1816624 (Canada)

COLD OUTPUT:
(U.S.) 30 Amps. 14 Volts at 2110 Generator R.P.M.
(Canada) 30 Amps. 14 Volts at 2900 Generator R.P.M.

BRUSH SPRING TENSION - 28 oz.

ROTATION - Counterclockwise - (Viewing Drive End)

REGULATOR

DELCO-REMY - No. 1119261 (Canada)
No. 1119001 (U.S.)

	Cut-Out Relay	Current Reg.	Voltage Regulator
Air Gap Point	.020"	.075"	.075"
Opening Adjusting Specs.	11.8-13.5 V.* 27-33 Amps.*	13.8-14.8 V.* (Can.)	11.8-13.5 V.* 27-31 Amps.* 13.8-14.7 V.* (U.S.)

* At 125° F. regulator ambient temperature.

DISTRIBUTOR

DELCO-REMY - No. 1110258 (Syn.)
No. 1110259 (P.G.)
No. 1110260 (Pwr. Pak)

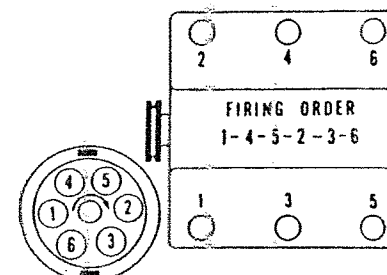
Breaker Contact Gap - .016"
Cam Angle - 31° - 35°
Breaker Contact Set - Part No. 1945376
Breaker Arm Spring Tension - 19-23 oz.
Condenser - Part No. 1932004
Capacity - .18 - .23 Mfd.
Rotation - Clockwise (Viewed from top of distributor)
Vacuum Control - 1116152 (Syn. & Pwr.); 1116177 (P.G.);
(Syn. & Pwr.) 5-7" hg. to start plunger travel, 11.5° maximum distributor advance at 14.5"-16.0" hg.
(P.G.) 6"-8" hg to start plunger travel, 11.5° maximum dist. adv. at 15.5"-17.0" hg.

Automatic Advance -

	1110258	1110259
Start	0°- 2° @ 400 RPM	0°- 2° @ 800 RPM
Intermediate	7°- 9° @ 1050 RPM	5°- 7° @ 1270 RPM
Maximum	15°-17° @ 1800 RPM	11°-13° @ 1850 RPM

	1110260
Start	0°-2° @ 425 RPM
Intermediate	2.25°-4.25° @ 600 RPM
Intermediate	6°-8° @ 1375 RPM
Maximum	11°-13° @ 2400 RPM

DISTRIBUTOR (Cont'd)



ENGINE COMPRESSION - 130 Lbs.

SPARK PLUGS

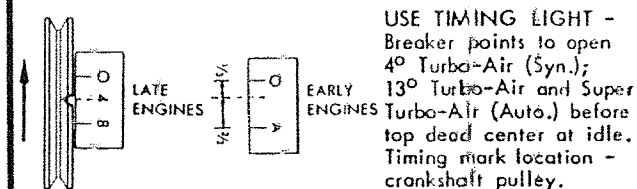
AC - Type 46FF (U.S. & Can.) Gap .035" Size 14 mm.
Type 44FF (H.D.-Can.)

Use Round Wire Gauge

IGNITION COIL

DELCO-REMY - No. 1115087

IGNITION TIMING



USE TIMING LIGHT -
Breaker points to open
4° Turbo-Air (Syn.);
13° Turbo-Air and Super
Turbo-Air (Auto.) before
top dead center at idle.
Timing mark location -
crankshaft pulley.

FUEL SYSTEM

FUEL PUMP

AC - No. 4704 (Early); No. 4886 (Late)
Capacity - 1 pint or over in 1 minute
Pressure - 7-1/2 lbs. min., 8-3/4 lbs. max.

AIR CLEANER

AC - No. 5646794



Standards of Adjustment

OIL FILTER

AC - No. PF-4

CARBURETORROCHESTER - MODEL H - No. 7019100 (Power Glide)
7019101 (Synchromesh)FLOAT LEVEL - 1-13/64" (Gauge BT-174) between gasket
and top of floats (air horn inverted)FLOAT DROP - 1-3/4" (Gauge BT-174) between lower
edge of float and gasket (air horn upright)

FIXED JETS -

Main Metering Jet - Part No. 7019100 (P.G.)
Part No. 7019101 (Syn.)IDLE ENGINE SPEED - Idle between 450-500 R.P.M. (Syn.);
475-500 R.P.M. (Auto.) in drivePUMP ROD ADJUSTMENT - Back out idle stop screw until
throttle valves are completely closed in bore. Bend pump
rod until the index line on upper pump lever just aligns
with sharp edge on air horn casting.FAST IDLE ADJUSTMENT - First Set Normal Idle Engine
Speed, then with Choke Valve wide open, turn fast idle
adjusting screw so there is .045" between end of screw
and tang on throttle lever.NOTE: The SYMBOL "hg. used on this chart designates
"Inches Vacuum" (Mercury).Original equipment service parts and accurate
work to manufacturers' specifications with proper
tools and equipment will restore original per-
formance.MISCELLANEOUSVALVES

VALVE CLEARANCE - Hydraulic valve lifters.

VALVE TIMING - Intake valves open at 15° before top
dead center.COOLING SYSTEM

AIR-COOLED

WINDSHIELD WIPER

DELCO APPLIANCE -

Service Motor No. 4907734 (1 Speed)

No. 4909108 (2 Speed)

Drive Link No. 4906338

Cross Link No. 4906336

Wiper Transmission - (Driver Side) No. 4906330
(Pass. Side) No. 4906319

Washer Pump No. 49009111 (1 & 2 Speed)

TRICO -

Wiper Arm - (Both Sides) No. AL-250

Both - (Both Sides) No. RB-15-2 or PR-15

ADDITIONAL SPECIFICATIONS

GAUGES - AC

Gasoline Gauge - Dash Unit No. 5643032

Tank Unit No. 5641645

Oil Pressure Gauge - Motor Unit No. 1508753

SPEEDOMETER - AC - No. 1589536

Cable No. 5655295 - 144-5/8"

CRANKCASE CAPACITY - 4 Quarts - Refill (U.S.)

3 Quarts - Refill (Canada)

IGNITION LOCK - BRIGGS & STRATTON

Part No. 602023

Key Blank Part No. 32318

Key Series No. 8000-9499

RECOMMENDED TIRE PRESSURE -

15 lbs. front, 26 lbs. rear (cold)

18 lbs. front, 13 lbs. rear (HOT)

ELECTRICAL SYSTEM**12-VOLT BATTERY**

DELCO-REMY - No. 556 (Std.) - (U.S.) Capacity-42 Amp.Hr.
(20 Hour Rate)

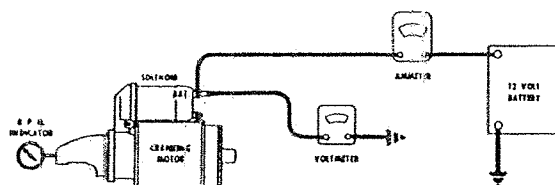
Negative Terminal Grounded

CABLES - PACKARD

Battery to Switch - Length 32-1/2" Part No. CP-35* (SEDAN)
Battery to Switch - Length 32-1/2" Part No. CP-35 (Sta. Wgn.)
Battery to Ground - Length 18-1/2" Pt. No. 5N-21 (SEDAN)
Battery to Ground - Length 24"+ Part No. 5L-26 (Sta. Wgn.)

*Coil Excess 12 Gauge or cut to Length. Attach TR No. 254 Terminal.

+40 hole located 13" from battery terminal.

STARTING MOTOR

DELCO-REMY - No. 1108306 (Std.); No. 1108307 (P.G.)

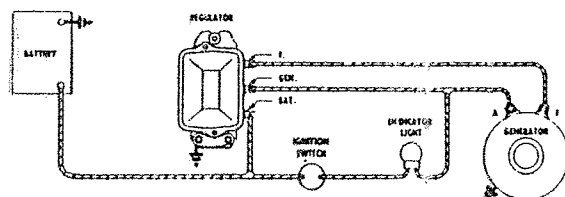
DRIVE - No. 1946221

FREE RUNNING SPEED -

6750-10,500 Min. RPM 58 Amps. 10.6 Volts

RESISTANCE TEST - 280 Amps. 4.0 Volts

SOLENOID SWITCH - 1119910

GENERATOR

DELCO MODEL	1102226 1102227	1105135	1105139
Application	R10 & St. Wgn. 2 & 4 Dr. Sedan	Optional	Optional
Brush Spring Tension (oz.)	28	28	28
Cold Output	30 amp. at 14V, 2110rpm	35 amp. at 14V, 1730rpm	40 amp. at 14V, 1930rpm
Field Current Draw at 12V, 80°F.	1.69-1.79	2.73-3.0	2.73-3.0

REGULATOR**DELCO-REMY**

Model	1119001	1119635	1119654
Application	For Gen.	For Gen.	For Gen.
	1102226, 2227	1105135	1105139
V-R Air Gap	.075"	.067"	.067"
V-R Setting at 125°F.	13.8-14.7	13.8-14.7	13.8-14.7
C-R Air Gap	.075	.075	.075
C-R Setting at 125°F.	27.0-31.0	31.0-35.5	27.0-32.4
Cutout Relay Air Gap	.020	.023	.023
Cutout Relay Point Open	.020	.020	.020
Cutout Relay Closing Voltage	11.8-13.5	11.8-13.0	11.8-13.0

DISTRIBUTOR

DELCO-REMY - No. 1110269 (Std.) - No. 1110271 (P.G.) -
No. 1110272 (P.PAC.) - No. 1110278 (P.G. MONZA)

BREAKER CONTACT GAP - .019" NEW - .016" USED

CAM ANGLE - 31° - 35°

BREAKER CONTACT SET - Part No. D108P-1954557

BREAKER ARM SPRING TENSION - 19 - 23 oz.

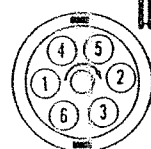
CONDENSER - Part No. D205-1956007

CAPACITY - .18-.25 Mfds.

ROTATION - Clockwise (Viewed from top of distributor)

CENTRIFUGAL AND VACUUM ADVANCE:

DISTRIBUTOR NO.	1110269	1110271
Centrifugal Adv.		
Start	0-2° at 400 rpm	0-2° 800 rpm
Intermediate	---	---
Intermediate	7-9° at 1050 rpm	5-7° at 1270 rpm
Maximum	15-17° at 1800 rpm	11-13° at 1850 rpm
Vacuum Adv.		
Start	0° at 5"-7"	0° at 6"-8"
Full Adv. "Hg.	14"-16.25"	15"-17.25"
Max. Adv. Degs.	11.5°	11.5°
DISTRIBUTOR NO.	1110272	1110278
Centrifugal Adv.		
Start	0-2° at 425 rpm	0-2° at 925 rpm
Intermediate	2.25-4.25° at 600 rpm	3-5° at 1300 rpm
Intermediate	6-8° at 1375 rpm	6-8° at 1675 rpm
Maximum	11-13° at 2400 rpm	9-11° at 2050 rpm
Vacuum Adv.		
Start	0° at 5"-7"	0° at 6"-8"
Full Adv. "Hg.	14"-16.25"	15"-17.25"
Max. Adv. Degs.	11.5°	11.5°



ENGINE COMPRESSION - 130 Lbs. P.S.I.

SPARK PLUGS

AC - Type 46FF (Turbo Air) Gap .035" Size 14 mm.
Type 44FF (All Others)

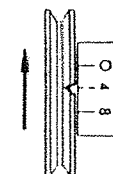
Use Round Wire Gauge

IGNITION COIL

DELCO-REMY - No. 1115135

HIGH TENSION CABLES

IGNITION CABLE SET - PACKARD NO. 436-D (All)

IGNITION TIMING

USE TIMING LIGHT - Breaker points
to open 4° (Syn.); 13° (P.G. & PWR.)*;
before top dead center at idle.

Timing mark location -
crankshaft pulley.

* With vacuum advance disconnected.

FUEL SYSTEM**FUEL PUMP**

AC - No. 4886

Capacity - 1 pint or over in 1 minute

Pressure - 4-5 lbs. at idle to 1000 rpm.

AIR CLEANER

AC - No. 5646794 (Std.)

- No. 5449194 (Positive Vent) 500-600 Models

OIL FILTER

AC - No. PF-4

CARBURETOR

ROCHESTER - MODEL H - No. 7020100 (Power Glide)

No. 7020101 (Synchronesh)

FIXED JETS - Main Metering Jet - Part No. 7002649 (PG)

No. 7002650 (Syn.)

IDLE ENGINE SPEED - Idle between 500 RPM (Syn.) Turbo-Air;
500RPM (Auto.) in drive - 600 RPM (Syn.) Super Turbo-Air



Standards of Adjustment

CARBURETOR - (Cont'd.)

FLOAT LEVEL - 1-13/64" (Gauge BT-174) between gasket and top of floats (air horn inverted).
 FLOAT DROP - 1-3/4" (Gauge BT-174) between lower edge of float and gasket (air horn upright).
 PUMP ROD ADJUSTMENT - Back out idle stop screw until throttle valves are completely closed in bore. Bend pump rod until the index line on upper pump lever just aligns with sharp edge on air horn casting.
 VACUUM BREAK DIAPHRAGM ADJUSTMENT - Push diaphragm plunger in until it seats. Place gauge between lower edge of choke valve and wall of air horn. Setting .161" (Gauge BT-194).
 CHOKE ROD ADJUSTMENT - SETTING .161" (GAUGE BT-194) - with fast idle tang on second step of fast idle cam. Place gauge between lower edge of choke and air horn wall.
 UNLOADER ADJUSTMENT - SETTING .250" (GAUGE BT-211) - With throttle valve wide open. Place gauge between lower edge of choke valve and wall of air horn.
 FAST IDLE ADJUSTMENT - SETTING .063" (GAUGE BT-79) Auto Trans.; .052" (GAUGE BT-68) Syn. H.P.

NOTE: The SYMBOL "hg. used on this chart designates "Inches Vacuum" (Mercury).

Original equipment service parts and accurate work to manufacturers' specifications with proper tools and equipment will restore original performance.

MISCELLANEOUSVALVES

VALVE CLEARANCE - Hydraulic valve lifters.
 VALVE TIMING - Intake valves open at 43° before top dead center (Turbo and Monza); 54° (Super Turbo).

COOLING SYSTEM

AIR-COOLED

WINDSHIELD WIPER

DELCO-APPLIANCE -
 Service Motor No. 4910214 (1 Speed)
 No. 4910144 (2 Speed)
 Washer Pump No. 4910610 (1 & 2 Speed)
 TRICO -
 Wiper Arm - (Both Sides) No. AL-250
 Blade - (Both Sides) No. PR-15

ADDITIONAL SPECIFICATIONS

GAUGES - AC
 Gasoline Gauge - Dash Unit No. 5643032
 Tank Unit No. 5641645
 SPEEDOMETER - AC - No. 1589536
 Cable No. 5655295 - 144-5/8"
 CRANKCASE CAPACITY - 4 Quarts - Refill (U.S.)
 3-1/4 Quarts - Refill (Canada)
 Add - 1/2 qt. with filter change
 IGNITION LOCK - BRIGGS & STRATTON
 Part No. 602023
 Key Blank Part No. 32318
 Key Series No. 8000-9499
 RECOMMENDED TIRE PRESSURE -
 15 lbs. front, 26 lbs. rear (cold)
 18 lbs. front, 13 lbs. rear (hot)



Standards of Adjustment

ELECTRICAL SYSTEM

12-VOLT BATTERY

DELCO-REMY - No. 556 Capacity - 42 Amp. Hr.
(20 Hour Rate)

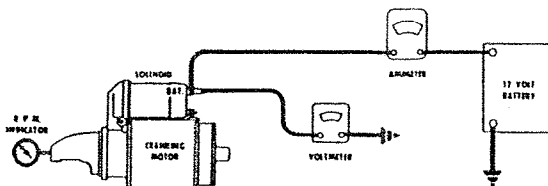
Negative Terminal Grounded

CABLES - PACKARD

Battery to Ground - Length 18-1/2" Part No. 5N-21

Battery to Switch - Length 32-1/2" Part No. CP-35A

STARTING MOTOR



DELCO-REMY No. 1108306 (Std.); No. 1108307 (P.G.)
DRIVE - No. 1946221

FREE RUNNING SPEED -

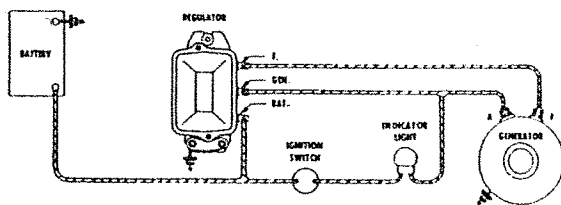
6750-10,500 Min. RPM 58-80* Amps. 10.6 Volts

RESISTANCE TEST - 280-320 Amps. 4.0 Volts

SOLENOID SWITCH - No. 1119910 (D-956)

* Includes Solenoid

GENERATOR



DELCO-REMY (U.S.)	1102226	1105135	1102227
Application	2 & 4 Dr. Sedan	Optional	R10 & Sta. Wgn
Brush Spring Tension (oz.)	28	28	28
Cold Output	30 Amp. at 14V, 2240rpm	35 Amp. at 14V, 1730rpm	30 Amp. at 14V, 2240rpm
Field Current Draw at 12V, 80°F.	1.69-1.79	2.73-3.0	1.69-1.79

SEE REVERSE SIDE FOR CANADIAN SPECS.

REGULATOR

DELCO-REMY

Model	1119001E	1119604
Application	For Gen.	For Gen.
	1102226, 2227	1105135
V-R Air Gap	.060"	.067"
V-R Setting at 125 F.	13.8-14.7	13.8-14.6
C-R Air Gap	.075	.075
C-R Setting at 125 F.	27.0-31.0	31.0-35.5
Cutout Relay Air Gap	.020	.020
Cutout Relay Point Open.	.020	.020
Cutout Relay Closing		
Voltage	11.8-13.5	11.8-13.0
Service Unit No.	1119003	1119003

DISTRIBUTOR

DELCO-REMY - No. 1110294 (Std.) - No. 1110295 (P.G.) -
No. 1110296 (PAC.); No. 1110297 (P.G. Monza); 1110298 (Turbo)
BREAKER CONTACT GAP - .019" NEW-.016" USED
CAM ANGLE - 31° - 35°

BREAKER CONTACT SET - Part No. 1954557 (D-108P)

BREAKER ARM SPRING TENSION - 19-23 oz.

CONDENSER - Part No. 1956007 (D-205)

CAPACITY - .18-.25 Mfd.

ROTATION - Clockwise (Viewed from top of distributor)

CENTRIFUGAL AND VACUUM ADVANCE -

DISTRIBUTOR NO. 1110294 1110295

Centrifugal Adv.

Start 0-2° at 400 rpm 0-2° at 800 rpm

Intermediate 7-9° at 1050 rpm 5-7° at 1270 rpm

Maximum 15-17° at 1800 rpm 11-13° at 1850 rpm

Vacuum Adv.

Control No. 1116199(D-1347) 1116200(D-1348)

Start 0° at 5"-7" 0° at 6"-8"

Full Adv. "Hg. 11.5° at 14"-16.25" 11.5° at 15"-17.25"

DISTRIBUTOR NO. 1110296 1110297

Centrifugal Adv.

Start 0-2° at 425 rpm 0-2° at 925 rpm

Intermediate 2-4° at 600 rpm 3-5° at 1300 rpm

Intermediate 6-8° at 1375 rpm 6-8° at 1675 rpm

Maximum 11-13° at 2400 rpm 9-11° at 2050 rpm

Vacuum Adv.

Control No. 1116199(D-1347) 1116200(D-1348)

Start 0° at 5"-7" 0° at 6"-8"

Full Adv. "Hg. 11.5° at 14"-16.25" 11.5° at 15"-17.25"

DISTRIBUTOR NO. 1110298

Centrifugal Adv.

Start 0-2° at 2000 rpm

Maximum 5-7° at 2250 rpm

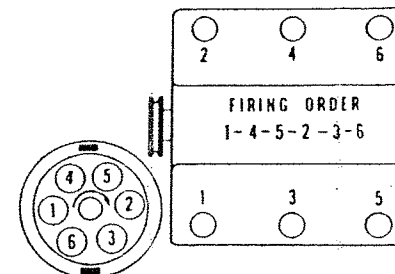
Vacuum Adv.

Control No. 1116208

Start 2-3° at 1 PSI

Maximum 4.2-4.75° at 2 PSI (Retard)

DISTRIBUTOR (Cont'd.)



ENGINE COMPRESSION - 130 Lbs. (U.S.); 140 Lbs. (Can.)
P.S.I.

SPARK PLUGS

AC - Type 46FF (Turbo Air); Type 44FF (All Others);

Type 42FF (Competition-Turbo)

Gap .035" Size 14 mm

Use Round Wire Gauge

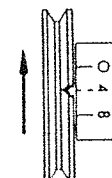
IGNITION COIL

DELCO-REMY - No. 1115087 (D-500)

HIGH TENSION CABLES

IGNITION CABLE SET - PACKARD No. 456-D (All)

IGNITION TIMING



USE TIMING LIGHT - Breaker points
to open 4° (Syn.); 13° (P.G. & PWR.);
24° (Turbo-Charged)* before top dead
center at idle.

Timing mark location -
crankshaft pulley.

* With vacuum advance disconnected. (All exc. Turbo-charged)

FUEL SYSTEM

FUEL PUMP

AC - No. 4886

Capacity - 1 pint in 30 to 45 seconds

Pressure - 5-1/2 lbs. min.; 6-3/4 lbs. max.

AIR CLEANER

AC - No. 5646794 (Std.)

- No. 5449194 (Positive Vent) 500-600 Models

- No. 5646918 (Positive Vent) - Opt.

- No. 6418069 (Super Charged)

CONTINUED ON REVERSE SIDE

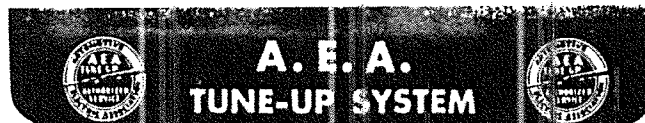
CORVAIR 1963

MODELS 500 (STD.)

700 (DELUXE)

900 (MONZA)

1963 page 2 of 2



Standards of Adjustment

CORVAIR 1963

ISSUED JULY 1963

FORM No. CO-4

OIL FILTER

AC - No. PF-4

CARBURETOR

ROCHESTER - Model H - No. 7023100 (Power Glide)
No. 7023101 (Synchromesh); No. 7023102 (Hi-Perf.)
FIXED JETS - Main Metering Jet - Part No. 7002648 (PG)
No. 7002650 (Syn.); No. 7002649 (Hi-Perf.)
IDLE ENGINE SPEED - Idle between 500 RPM (Syn.) Turbo-
Air; 500RPM (Auto.) in drive - 600 RPM (Syn.) Super-
Turbo-Air
FLOAT LEVEL - 1-3/16" (Gauge BT-3009) between gasket
and top of floats (air horn inverted).
FLOAT DROP - 1-3/4" (Gauge BT-3009) between lower edge
of float and gasket (air horn upright).
PUMP ROD ADJUSTMENT - Back out idle stop screw until
throttle valves are completely closed in libre. Bend pump
rod until the index line on upper pump lever just aligns
with sharp edge on air horn casting.
VACUUM BREAK DIAPHRAGM ADJUSTMENT - Push dia-
phragm plunger in until it seats. Place gauge between lower
edge of choke valve and wall of air horn. Setting .160".
CHOKE ROD ADJUSTMENT - SETTING .150" With fast idle
tang on second step of fast idle cam. Place gauge between
lower edge of choke and air horn wall.
UNLOADER ADJUSTMENT - SETTING .250" (GAUGE BT-
211) - With throttle valve wide open. Place gauge between
lower edge of choke valve and wall of air horn.
FAST IDLE ADJUSTMENT - SETTING .060" (Auto. Trans.);
.050" (Syn. & H.P.)
AUTOMATIC CHOKE ADJUSTMENT - Disconnect thermostat
rod from upper end of upper choke lever. Pull upward on
rod to the end of its travel. Holding choke valve closed,
the end of rod should slide freely in hole in choke lever.
If not, screw rod in or out to adjust length.

CARTER YH - No. 3311S-SA No. 3586S; No. 3569S-(TURBO
CHARGED)
FIXED JETS - Metering Rod Jet (.0935") Part No. 120-166
IDLE ENGINE SPEED - 800 RPM; idle needle turns 1/4 to
1-3/4 turns open.
CHOKE - 3311S-SA (1 point rich); 3569S (1 point rich)
3586S (on index)
FLOAT ADJUSTMENT - 5/8 inch (bowl gasket removed from
center of float to bowl cover. To adjust, bend float lever.
FLOAT DROP - 2-3/8 inch from bottom of float (at free end)
to bowl cover. To adjust, bend stop tab on float arm.
METERING ROD ADJUSTMENT - Insert gauge (T109-104) in
place of metering rod, with throttle valve tightly closed,
press down on diaphragm shaft until metering rod arm con-
tacts lifter link at diaphragm stem. With diaphragm shaft
held in this position, metering rod pin must rest lightly on
metering rod gauge. To adjust, bend metering rod arm.
ACCELERATING PUMP - Adjust none, if acceleration is not
satisfactory examine diaphragm for wear or damage, clean
and blow out all passages. Replace all worn or damaged
parts.

CARBURETOR (Cont'd.)

FAST IDLE ADJUSTMENT - (Coil housing removed) With
choke valve tightly closed and fast idle link on high step
of cam, adjust choke connector rod to give .030" opening
between edge of throttle valve and carburetor bore (side
opposite port).
FAST IDLE ON CAR - Hot engine 2000 RPM with link on
high step of cam.
UNLOADER ADJUSTMENT - Hold throttle valve wide open
and close choke valve, there should be 3/8" between lower
edge of choke valve and inner wall of air horn. To adjust,
bend choke shaft unloader arm.

GENERATORS - (CANADA)

DELCO-REMY - No. 1816624 (30 Amp. D.C. Gen.)
1105135 (35 Amp. Low Cut-In D.C.)
1105139 (40 Amp.)

FIELD CURRENT (80°F) -

(1816624)	1.69-1.79 Amps.	12 Volts
(1105135)	2.73-3.0 Amps.	12 Volts
(1105139)	2.73-3.0 Amps.	12 Volts

COLD OUTPUT -

(1816624)	30 Amps.	14 Volts at 2240 RPM
(1105135)	35 Amps.	14 Volts at 1730 RPM
(1105139)	40 Amps.	14 Volts at 1930 RPM

ROTATION (Drive End) Counterclockwise

BRUSH SPRING TENSION - 28 oz.

REGULATORS (CANADA)

DELCO-REMY - D-618 (1119003) - (Gen. 1816624)
- D-658 (1119635) - (Gen. 1105135)
- 1119654 - (Gen. 1105139)

	D-618	D-658	1119654
Cut-Out Relay			
Air Gap	.020"	.023"	.023"
Point Opening	.020"	.020"	.020"
Closing Vtge.	11.8-13.5V	11.8-13.0V	11.8-13.0V
Voltage Reg.			
Air Gap	.075"	.067"	.067"
Point Opening	--	--	.016"
Setting at 125°F	13.8-14.7V	13.8-14.7V	13.8-14.6V
Current Reg.			
Air Gap	.075"	.075"	.075"
Setting Amps. at 125°F	27.0-31.0	31.0-35.5A	36.0-40.5A

MISCELLANEOUS

VALVES

VALVE CLEARANCE - Hydraulic valve lifters
VALVE TIMING - Intake valves open 43°(Std.); 54° (Hi-perf.)
70° (Turbo-Charged) before top dead center.

COOLING SYSTEM

AIR-COOLED

WINDSHIELD WIPER

DELCO-APPLIANCE -
Service Motor No. 4911945 (1 Speed)
Service Motor No. 4911476 (2 Speed)
Washer Pump No. 4912365 (All)
Linkage - (Drivers Side) - 4906330
- (Pass. Side) - No. 4906319

ADDITIONAL SPECIFICATIONS

GAUGES - AC
Gasoline Gauge - Dash Unit No. 5644568 (M/Spyder)
- Dash Unit No. 5644545 (Std.)
- Tank Unit No. 5641645 (All)
Temp. Gauge - Dash Unit No. 6400795 (M/Spyder)
- Motor Unit No. 1513431 (M/Spyder)

SPEEDOMETER - AC - No. 1589536 (Std.);
No. 6406905 (Spyder)
Cable No. 6409258 - 144-5/8" (All)

CRANKCASE CAPACITY - 4 Quarts - Refill (U.S.)
3-1/4 Quarts - Refill (Canada)
Add + 1/2 qt. with filter change

IGNITION LOCK - BRIGGS & STRATTON
Part No. 602023
Key Blank Part No. 32318
Key Series No. 8000-9499

RECOMMENDED TIRE PRESSURE -
15 lbs. front, 26 lbs. rear (cold) Tire Size 6.50 x 13
15 lbs. front, 28 lbs. rear (cold) Tire Size 7.00 x 13

HORN - DELCO APPLIANCE
No. 9000433 - Low Note
No. 9000434 - High Note

MODELS 500 (STD)
700 (DELUXE)
900 (MONZA)
600 (MONZA SPYDER)

1964 page 1 of 2



A. E. A.
TUNE-UP SYSTEM



ISSUED SEPTEMBER 1964

FORM No. CO-1

Standards of Adjustment

ELECTRICAL SYSTEM

12-VOLT BATTERY

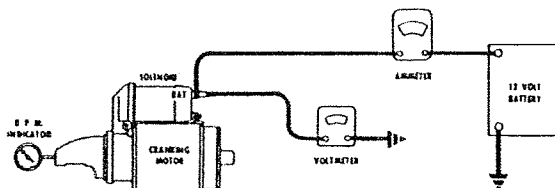
DELCO-REMY - No. 556 Capacity - 42 Amp. Hr.
(20 Hour Rate)

Negative Terminal Grounded

CABLES - PACKARD

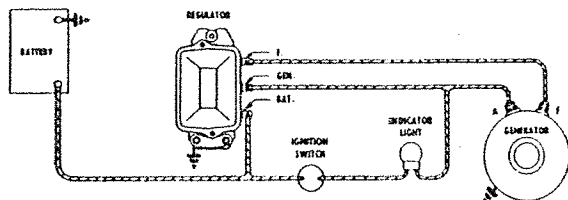
Battery to Ground - Length 18-1/2" Part No. 5N-21
Battery to Switch - Length 32-1/2" Part No. 4A-36

STARTING MOTOR



DELCO-REMY No. 1108306 (Std.); No. 1108307 (P.G.)
DRIVE - No. 1946221 (D-2006)
FREE RUNNING SPEED -
6750-10,500 Min. RPM 58* Amps. 10.6 Volts
RESISTANCE TEST - 280 Amps. 4.0 Volts
SOLENOID SWITCH - No. 1119910 (D-956)
* Includes Solenoid

GENERATOR



DELCO - No. 1102336 (Std); No. 1105135 (Opt.-Lo-Cut in)
Brush Spring Tension - 28 oz.
Cold Output - 35 Amp. 14 Volts @ 2630 RPM (Std.)
35 Amp. 14 Volts @ 1730 RPM (Lo)
Field Current - @ 80°F
1.69-1.79 Amp. 12 Volts (Std)
2.73-3.30 Amp. 12 Volts (Lo)
Rotation - Counterclockwise (Viewing Drive-End)
SEE REVERSE SIDE FOR CANADIAN SPECS. For Generators
and Regulators

REGULATOR

DELCO-REMY

Model	1119305	1119604
Application	For Gen.	For Gen.
	1102336	1105135
V-R Air Gap	.075"	.067"
V-R Setting at 125 F.	13.8-14.7	13.8-14.6
C-R Air Gap	.075	.075
C-R Setting at 125 F.	31.0-35.5	31.0-35.5
Cutout Relay Air Gap	.020	.020
Cutout Relay Point Open.	.020	.020
Cutout Relay Closing		
Voltage	11.8-13.5	11.8-13.0
Service Unit No.	1119305 (D-662)	1119635

DISTRIBUTOR

DELCO - No. 1110310 (S/T); No. 1110311 (A/T)
No. 1110314 (Turbo); No. 1110319 (Power-Pak)
BREAKER CONTACT GAP - .019" NEW; .016" USED
CAM ANGLE - 31° - 34°
BREAKER CONTACT SET - Part No. 1962640
BREAKER ARM SPRING TENSION - 19-23 oz.
CONDENSER - Part No. 1928111 (D-203)
CAPACITY - .18-.25 Mfd.
ROTATION - Clockwise (Viewed from top of distributor)

CENTRIFUGAL ADVANCE - Dist. R.P.M.

DISTRIBUTOR NO.	1110310	1110311
Centrifugal Adv.		
Start	0-2° at 450	0-2° at 975
Intermediate	7-9° at 1350	5-7° at 1600
Maximum	13-15° at 2100	9-11° at 2100

DISTRIBUTOR NO.	1110314	1110319
Start	0-2° at 2000	0-2° at 500
Inter.	----	1-3° at 600
Inter.	----	5-7° at 1500
Maximum	5-7° at 2250	9-11° at 2400

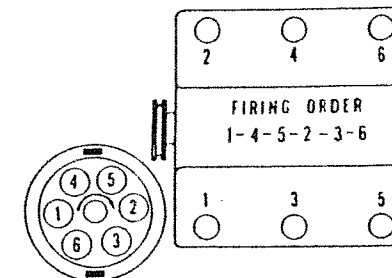
VACUUM ADVANCE -

Control No.	1116229	1116230
Dist. No.	1110310	1110311 & 14
Start	5-7"	6-8"
Maximum	12° at 12 3/4-14 3/4"	14-16"

Control No.	11106231*
Dist. No.	1110319
Start	1-2 PSI
Maximum	3.25° at 2.6-3.25 PSI

* Pressure Retard.

DISTRIBUTOR - (Cont'd.)



ENGINE COMPRESSION - 130 Lbs. (U.S.); 140 Lbs.
(Can.) P.S.I. - Var. 20 P.S.I.

* At Cranking Speed all plugs removed and throttle wide open.

SPARK PLUGS

SIZE 14 MM

AC - Gap .035" (Turbo Air)
.030" (All Others)

AC Type - 46 FF (Turbo Air)
AC-42 FF (Competition Turbo- Charged)
AC-44 FF (All Others)

IGNITION COIL

DELCO-REMY - No. 1115135
- No. 1115087
Service Coil (D-500)

HIGH TENSION CABLES

IGNITION CABLE SET - PACKARD No. 456-D (All)

IGNITION TIMING

USE TIMING LIGHT - Breaker points
to open -

6° B.T.D.C.* at 450-500 RPM Turbo Air
(Std. Trans.)

14° B.T.D.C.* at 450-400 RPM Turbo Air
(Auto. Trans.)

14° B.T.D.C.* Std. Trans. at 650 RPM;
P.G. at 450-500 RPM.

24° B.T.D.C. at 850 RPM. Turbo Charged
Engine

Timing mark location - crankshaft pulley

* With vacuum advance disconnected. (All exc. Turbo-
charged)

FUEL PUMP

AC - No. 4886

Capacity - 1 pint in 30 to 45 seconds
Pressure - 5-1/2 lbs. min.; 6-3/4 lbs. max.

AIR CLEANER

AC - No. 6419705 (Corvair)
- No. 6419148 (Monza Spyder)
- No. 6418552 (Heavy Duty)

OIL FILTER

AC - No. PF-4

CARBURETOR

ROCHESTER - Model H -
No. 7024023 (A/T & S/T) 2 Carbs. Used
No. 7024024 (Hi-Perf.)
No. 7024025 (Air Cond. & Dual Air Cleaner)FIXED JETS - Main Jet.
No. 7002651 (7024023)
No. 7002653 (7024024 - 7024025)IDLE ENGINE SPEED - 500 RPM (SYN.) Turbo-Air
500 RPM (Auto. In Dr.) Turbo-Air &
Super Turbo Air
600 RPM (SYN.) Super Turbo-Air
850 RPM (SYN.) Turbo Charged
EngineFLOAT LEVEL - With air horn inverted and gasket in place
gauge from top of float to air horn gasket, dimension should
be 1 1/16". Bend tang which contacts needle to adjust.
Float pontoons should be parallel with air horn surface
when set correctly. Align floats to avoid interference with
bowl.FLOAT DROP - With air horn assembly held upright and
floats suspended freely, dimension should be 1 13/16" from
air horn gasket to bottom of float pontoon at toe. Adjust
by bending tang which contacts seat at rear of float arm.FAST IDLE CAM CLEARANCE - NOTE: This adjustment must
be made after curb idle speed has been set on the car.
Stop engine. With throttle lever on second highest step
of fast idle cam, bend tang to obtain .078" clearance be-
tween idle speed screw and throttle lever.VACUUM DIAPHRAGM ADJUSTMENT - a. Hold vacuum
diaphragm arm in against diaphragm.
b. Measure clearance between lower edge of choke valve
and wall of air horn. Clearance should be .190"
c. If necessary to adjust, bend diaphragm link.
d. At this setting, throttle lever fast idle tang should rest
on second highest step of fast idle cam. If not, adjust
by bending outer choke shaft lever tang.CHOKE ADJUSTMENT - Perform adjustment with engine off.
1. Disconnect choke control rod at choke shaft lever.
2. Hold choke valve closed and, while holding the control
rod up against the stop in choke thermostat bracket,
adjust upper choke control rod until it freely enters
hole in choke shaft lever.CAUTION: To minimize the possibility of deforming the
control rod while adjusting, always turn the vertical portion
portion. Do not "crank" the rod using offset portion.3. Start engine and warm up - check choke position after
warm up. Choke valve should be open and fast idle
cam should clear the throttle leverUNLOADER ADJUSTMENT - Check unloader adjustment by
holding throttle valve in wide open position and insert a
.325" wire gauge between choke valve lower edge and
wall of air horn. To adjust, if necessary, bend tang on
throttle lever.NOTE: Unloader adjustment should be checked specially
if it has been necessary to adjust the choke shaft outer
lever tang during choke diaphragm link check.PUMP ROD ADJUSTMENT - 1. Back off curb and fast idle
screws until throttle valve is completely closed.
2. Holding throttle valves closed, check to see that the
scribe mark on the accelerator pump lever is aligned
with the raised cast tang (front edge) on the bowl cover.
3. The accelerator pump rod may be carefully bent, using
a carburetor rod bending tool, to obtain the correct
adjustment.

CARTER - YH-No. 36925 (TURBO CHARGED)

FIXED JETS - Metering Rod Jet (.104") Part No. 120-161
IDLE ENGINE SPEED - 800 RPM; idle needle turns 1/4 to
1-3/4 turns open.

CHOKE - Set one point lean.

FLOAT ADJUSTMENT - 5/8 inch (bowl gasket removed) from
center of float to bowl cover. To adjust, bend float lever.FLOAT DROP - 2-3/8 inch from bottom of float (at free end)
to bowl cover. To adjust, bend stop on float arm.METERING ROD ADJUSTMENT - Insert gauge (T109-104) in
place of metering rod, with throttle valve tightly closed,
press down on diaphragm shaft until metering rod arm con-
tacts lifter link at diaphragm stem. With diaphragm shaft
held in this position, metering rod pin must rest lightly on
metering rod gauge. To adjust, bend metering rod arm.ACCELERATING PUMP - Adjust none, if acceleration is not
satisfactory examine diaphragm for wear or damage, clean
and blow out all passages. Replace all worn or damaged
parts.FAST IDLE ADJUSTMENT - (Coil housing removed) With
choke valve tightly closed and fast idle link on high step
of cam, adjust choke connector rod to give .033" opening
between edge of throttle valve and carburetor bore (side
opposite port).FAST IDLE ON CAR - Hot engine 2000 RPM with link on
high step of cam.UNLOADER ADJUSTMENT - Hold throttle valve wide open
and close choke valve, there should be 7/16" between
lower edge of choke valve and inner wall of air horn. To
adjust, bend choke shaft unloader arm.

GENERATORS - (CANADA)

DELCO-REMY - No. 1102336 (35 Amp. D.C. Gen.); 1105135
(35 Amp. Low Cut-In D.C.); 1105139 (40 Amp.)FIELD CURRENT (80 F)-(1102336) 1.69-1.79 Amps. 12 Volts;
(1104135) 2.73-3.0 Amps. 12 Volts; (1105139) 2.73-3.0 Amps. 12V.
COLD OUTPUT - (1102336) 35 Amps. 14 Volts at 2630 RPM;
(1105135) 35 Amps. 14 Volts at 1730 RPM
(1105139) 40 Amps. 14 Volts at 1930 RPMROTATION - (Drive End) Counterclockwise
BRUSH - TENSION - 28 oz.

REGULATORS (CANADA)

- D-662 (1119305) - (Gen. 1102336)
- D-658 (1119635) - (Gen. 1105135)
- 1119654 - (Gen. 1105139)

	D-662	D-658	1119654
Cut-Out Relay			
Air Gap	.020"	.023"	.023"
Point Opening	.020"	.020"	.020"
Closing Voltage	11.8-13.5V	11.8-13.0V	11.8-13.0V
Voltage Reg.			
Air Gap	.075"	.067"	.067"
Point Opening	--	--	.016"
Setting at 126°F	13.8-14.7V	13.8-14.7V	13.8-14.6V
Current Reg.			
Air Gap	.075"	.075"	.075"
Setting Amps. at 125°F	31.0-35.5	31.0-35.5A	36.0-40.5A

MISCELLANEOUS

VALVES

VALVE CLEARANCE - Hydraulic valve lifters

VALVE TIMING - Intake valves open 43°(Std.); 54° (Hi-
perf.) 70° (Turbo-Charged) before top dead center.

COOLING SYSTEM

AIR-COOLED

WINDSHIELD WIPER

DELCO-APPLIANCE -

Service Motor No. 4911945 (1 Speed)

Service Motor No. 4911476 (2 Speed)

Washer Pump No. 4912365 (All)

Linkage - (Drivers Side) - 4906330
- (Pass. Side) - No. 4906319

TRICO -

Wiper Arm (Both Sides Same) No. AL-250

Blade (Both Sides Same) No. PR-15-2W or PR-15

Blade (Refill) No. RE-15

ADDITIONAL SPECIFICATIONS

GAUGES - AC

Gasoline Gauge - Dash Unit No. 5644568 (M/Spyder)

- Dash Unit No. 5644545 (Std.)

- Tank Unit No. 5641419 (All)

Temp. Gauge - Dash Unit No. 6400795 (M/Spyder)

- Motor Unit No. 1513431 (M/Spyder)

SPEEDOMETER - AC - No. 1589536 (Std.);

No. 6406905 (Spyder)

Cable No. 6409611 - 144-5/8" (All)

CRANKCASE CAPACITY - 4 Qts. - Refill (U.S.)

3-1/4 Qts. - Refill (Canada)

Add - 1/2 qt. with filter change

IGNITION LOCK - BRIGGS & STRATTON

Part No. 602023

Key Blank Part No. 32318

Key Series No. 8000-9499

RECOMMENDED TIRE PRESSURE -

15 lbs. front, 26 lbs. rear (cold) Tire Size 6.50 x 13

15 lbs. front, 28 lbs. rear (cold) Tire Size 7.00 x 13

HORN - DELCO-APPLIANCE

No. 9000495 - Low Note

No. 9000496 - High Note



Standards of Adjustment

ELECTRICAL SYSTEM

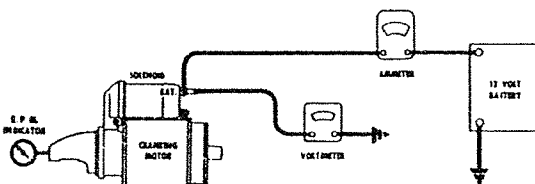
12-VOLT BATTERY

DELCO-REMY - No. 1980007 (Std.) Capacity - 44 Amp. Hr.
- No. 1980568 (Opt.) - 70 Amp. Hr.
(20 Hr. Rate) - ALL
Negative Terminal Grounded

CABLES - PACKARD

Battery to Ground - Lgth. 14" Part No. 4A-15 (Std.)
- Lgth. 16" Part No. 4A-19 (H.D.B.)
Battery to Switch - Lgth. 30" Part No. 4A-30 (Std.)
- Lgth. 32" Part No. 4A-36 (H.D.B.)

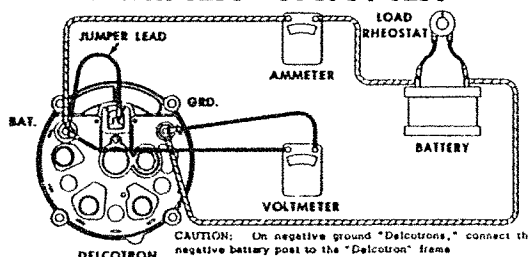
STARTING MOTOR



DELCO-REMY No. 1108306 (Std.); No. 1108307 (P.G.)
DRIVE - No. 1946221 (D-2006)
FREE RUNNING SPEED -
6750-10,500 Min. RPM 80* Amps. 10.6 Volts
RESISTANCE TEST - 280-320 Amps. 4.0 Volts
SOLENOID SWITCH - No. (D-969)
* Includes Solenoid

AC GENERATOR

BENCH TEST - OUTPUT TEST



DELCO-REMY - No. 1100639 (Std.); No. 1100698 (A.C. & Opt.)
GROUND - N ROTATION - (Dr. End) - Counterclockwise
CIRCUIT - B
FIELD CURRENT (80°F) 2.2-2.6 Amps. at 12 Volts (1100639);
2.8-3.2 Amps. at 12 Volts (1100698)
COLD OUTPUT -
(1100639) 14 Volts 25 Amps. at 2000 RPM, 35 Amps. at 5000 RPM
(1100698) 14 Volts 31 Amps. at 2000 RPM, 45 Amps. at 5000 RPM
HOT RATED OUTPUT -
(1100639) 37 Amps., (1100698) 47 Amps.

REGULATOR

DELCO-REMY No. (D-635) 1119515
VOLTAGE REGULATOR - Air Gap .067"; Setting at 85°F -
13.8-14.8
Point Opening - .014"
Field Relay - Air Gap .015"; Point Opening .030";
Closing Voltage - 1.5 - 3.2
TEMPERATURE VOLTAGE CHART - VOLTAGE SETTING

65°F.	85°F.	105°F.	125°F.	145°F.	165°F.	185°F.
13.9-15	13.8-14.8	13.7-14.6	13.5-14.4	13.4-14.2	13.2-14	13.1-13.9

(V) Operation on Lower Contacts must be .05-.4 volts Lower than on Upper Contacts.

DISTRIBUTOR

DELCO-REMY - No. 1110310 (95 H.P. - S/T)
- No. 1110311 (95 H.P. - P/G)
- No. 1110319 (110 H.P. - ALL)
- No. 1110329 (180 H.P. - Turbo)
- No. 1110339 (140 H.P. - P/G)
- No. 1110330 (140 H.P. - 4 x 1-bbl. Carbs.)

BREAKER CONTACT GAP - .020" (1110329-30). (Others) .016"
CAM ANGLE - 31° - 34°

BREAKER CONTACT SET - Part No. D108P

BREAKER ARM SPRING TENSION - 19-23 oz.

CONDENSER - Part No. D-203 1928111

CAPACITY - .18-.25 Mfd.

ROTATION - Clockwise (Viewed from top of distributor)

CENTRIFUGAL ADVANCE - Dist. R.P.M.

DISTRIBUTOR NO.	1110310	1110311
Centrifugal Adv.		
Start	0-2° at 450	0-2° at 975
Intermediate	7-9° at 1350	5-7° at 1600
Maximum	13-15° at 2100	9-11° at 2100

DISTRIBUTOR NO.	1110329	1110319
Start	0-2° at 2050	0-2° at 500
Intermediate	---	1-3° at 600
Intermediate	---	5-7° at 1500
Maximum	8-10° at 2450	9-11° at 2400

DISTRIBUTOR NO.	1110339	1110330
Centrifugal Adv.		
Start	0-2° at 550	0-2° at 500
Intermediate	3.5-5.5° at 1000	---
Maximum	8-10° at 1600	8-10° at 1400

VACUUM ADVANCE -

Control No.	1116229	1116230
Dist. No.	1110310	1110311
Start	5-7"	6-8"
Maximum	12° at 12 3/4-14 3/4"	14-16"

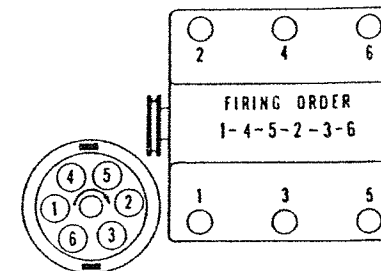
Control No.	1116230	1116245
Dist. No.	1110319	1110329
Start	6-8" Hg.	1.5-2.5 PSI.*
Maximum	12° at 14.5"-15.5" Hg.	4.3-4.5 PSI.*

* Pressure Retard

DISTRIBUTOR (Cont'd.)

VACUUM ADVANCE - (Cont'd.)

Control No.	1116230	1116248
Distr. No.	1110339	1110330
Start	6-8" Hg.	5-7" Hg.
Maximum	12° at 14.5-15.5" Hg.	11° at 13.8-14" Hg.



ENGINE COMPRESSION - 130 Lbs. (U.S.)
- Var. 20 P.S.I.

* At Cranking Speed all plugs removed and throttle wide open.

SPARK PLUGS

AC - SIZE 14MM

46FF - GAP .035" (Std.-95 H.P.)

44FF - GAP .030" (Std.-Others)

42FF - GAP .030" (Competition)

Use Round Wire Gauge

IGNITION COIL

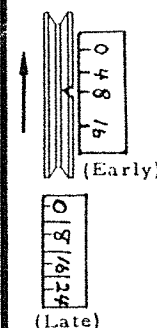
DELCO-REMY - No. 1115200

Service Coil - (D-500)

HIGH TENSION CABLES

IGNITION CABLE SET - PACKARD No. 456-D (All)

IGNITION TIMING



4°-8° at 450-500 RPM B.T.D.C.* (Syn.) -
95 H.P.
12°-16° at 1 B.T.D.C.* (Auto.) 95 &
110 H.P.
24° at 1 B.T.D.C.* (P.G. with A/C -
110 H.P.) Late Engine
12°-16° at 600-650 RPM B.T.D.C.* (Syn.)
110 H.P.
16°-20° at 600-650 RPM B.T.D.C.* (Syn.)
140 H.P.

(CONTINUED ON REVERSE SIDE)

Standards of Adjustment

IGNITION TIMING (Cont'd.)

24° at 850 RPM B.T.D.C.* (Syn.) 180 H.P.
 * Idle speed with auto. trans. should be set as low as possible to obtain a smooth idle and prevent creep in drive or harsh shifts during transmission operation.
 * With vacuum advance line disconnected and plugged at idle speed.
 TIMING MARK LOCATION - CRANKSHAFT PULLEY.

FUEL SYSTEM

FUEL PUMP

AC - No. 719
 Capacity - 1 pint in 30 to 45 seconds
 Pressure - 5-1/4 lbs. min.; 6-1/2 lbs. max.

AIR CLEANER

AC - No. 6419705 (Corvair)
 - No. 6420244 (Monza Spyder)
 - No. 6419985 (Heavy Duty) Corvair
 - No. 6420884 (Heavy Duty) Monza Spyder

OIL FILTER

AC - No. PF-4

CARBURETOR

ROCHESTER - Model HV
 - No. 7025023 (A/T & S/T) 2 Carbs. used.
 - No. 7025024 (Hi-Perf. Pri. Carbs.)
 - No. 7025025 (Air Cond. & Dual Air Cleaners)
 - No. 7025226 (Hi-Perf. Sec. Carb.)

FIXED JETS

- Main Metering No. 7002651 (7025023-7025025 - Carbs.)
 7002650 (7025024 Carb.)
 7002648 (7025226 - Carb.)

IDLE ENGINE SPEED - 500 RPM in neutral S/T (95 H.P.)
 600 RPM in neutral S/T (all others)
 550 RPM in drive A/T (All)

FLOAT LEVEL - 1-1/16" between gasket and top of floats (air horn inverted.).

FLOAT DROP - 1-13/16" between bottom edge of float at toe and air horn gasket. (Air horn upright.)

PUMP ROD ADJUSTMENT - Back out idle stop screw until the throttle valves are completely closed in bore. Bend pump rod until the index line on upper pump lever just aligns with sharp edge on air horn casting.

NOTE: On Powerglide applications using a two hole lower pump lever, setting should be made with pump rod placed in outer hole. After setting is made, pump rod should be moved to inner hole on lever for proper operation.

IDLE VENT VALVE ADJUSTMENT (All Exc. 7025226) - To adjust, bend the tang on the throttle lever so that when the

CARBURETOR (Cont'd.)

vent valve just starts to open .015" gauge will just go between the throttle valve and the bore directly opposite the idle needle. Do not bend the spring arm on the vent valve as distortion may result.

VACUUM BREAK DIAPHRAGM ADJUSTMENT - (All Exc. 7025226) - To adjust push diaphragm plunger inward until seated, and then close choke valve to point where connecting rod is to end of slot in choke lever. With choke valve in this position .190" gauge should fit between lower edge of choke valve and inner air horn wall. To adjust, bend connecting rod.

CHOKE ROD ADJUSTMENT (All exc. 7025226) - To adjust, place fast tang on second step of fast idle cam next to highest step. Close choke valve so that trip lever on choke shaft just contacts choke tang on lever and collar assembly.

(.190) gauge should just fit between lower edge of choke valve and inner air horn wall.

To adjust, bend tang on trip lever up or down.

UNLOADER ADJUSTMENT (All Exc. 7025226) - To adjust, hold throttle valve wide open (accelerator pedal depressed to floor), then .325 gauge should just fit between lower edge of choke valve and inner air horn wall. To adjust, bend unloader tang on throttle lever.

CARTER YH No. 39025 (S/T) 164 C.I.

IDLE RPM - 800 RPM in neutral. Screw setting 1/4 to 2 turns open.

CHOKE CLIMATIC CONTROL - Set 1 point lean.

FIXED JETS -

- Metering Rod Jet - (.089") 120-159
 - Metering Rod (Std.) - (.057" x .048") 75-1654

FLOAT ADJUSTMENT - 5/8 inch (bowl gasket removed) from center of float to bowl cover. To adjust, bend float lever.

FLOAT DROP - 2-3/8 inch from bottom of float (at free end) to bowl cover. To adjust, bend stop tab on float arm.

METERING ROD ADJUSTMENT - Insert gauge (T109-104) in place of metering rod, with throttle valve tightly closed, press down on diaphragm shaft until metering rod arm contacts lifter link at diaphragm stem. With diaphragm shaft held in this position, metering rod pin must rest lightly on metering rod gauge. To adjust, bend metering rod arm.

ACCELERATING PUMP - Adjust none, if acceleration is not satisfactory examine diaphragm for wear or damage, clean and blow out all passages. Replace all worn or damaged parts.

FAST IDLE ADJUSTMENT - (Coil housing removed) With choke valve tightly closed and fast idle link on high step of cam, adjust choke connector rod to give .033" opening between edge of throttle valve and carburetor bore (side opposite port).

FAST IDLE ON CAR - Hot engine 2000 RPM with link on high step of cam.

UNLOADER ADJUSTMENT - Hold throttle valve wide open and close choke valve, there should be 7/16 inch between lower edge of choke valve and inner wall of air horn. To adjust, bend choke shaft unloader arm.

MISCELLANEOUS

VALVES

VALVE CLEARANCE - Hydraulic valve lifters

VALVE TIMING - Intake valves open 44° (95 H.P.); 55° (All Others) before top dead center.

COOLING SYSTEM

AIR-COOLED

WINDSHIELD WIPER

DELCO-APPLIANCE -

Service Motor No. 4911945 (1 Speed)

Service Motor No. 4911476 (2 Speed)

Washer Pump No. 4912365 (All)

Linkage - (Drivers Side) - 4915410
 (Pass. Side) - 4915411

TRICO -

Wiper Arm (Both Sides Same) No. AL-250

Blade (Both Sides Same) No. PR-15-2W or RR-15

Blade (Refill) No. RF-15

ADDITIONAL SPECIFICATIONS

CRANKCASE CAPACITY - 3 qts. Refill (U.S.)

- 2.4 qts. Refill (Can.)

Add - 1/2 qt. w/Filter Change

RECOMMENDED TIRE PRESSURE -

15 lbs. Front, 26 lbs. Rear (Cold) all

GAUGES - AC

Gasoline Gauge - Dash Unit No. 6430225 (M/Spyder)

Dash Unit No. 6430291 (Std.)

Tank Unit No. 6425531 (All)

Temperature Gauge - Dash Unit No. 6401645 (M/Spyder)

SPEEDOMETER - AC -

- No. 6455435 (Std.); 6455245 (Spyder)

Cable No. 6453315 - 59-39/64" (All)

ELECTRONIC TRACHOMETER - No. 6412203 (M/Spyder)

IGNITION LOCK - BRIGGS & STRATTON

Part No. 601472

Key Blank Part No. 32318 - 9499

Key Series No. 8000-9499

HORNS - DELCO - Low No. 9000539

High No. 9000540

Relay - 1115811

ELECTRICAL SYSTEM

12 VOLT BATTERY

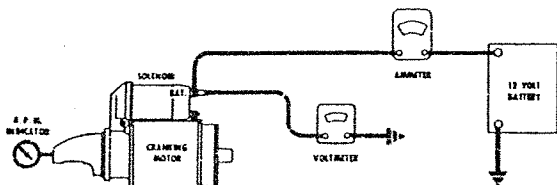
DELCO-REMY - No. 555 (Std.) Capacity - 44 Amp. Hr.
- No. 569 (Opt.) - 70 Amp. Hr.
(20 Hr. Rate) - ALL

Negative Terminal Grounded

CABLES - PACKARD

Battery to Ground - Part No. 4A-15 (Std.)
Part No. 4A-19 (Hvy. Duty Battery)
Battery to Switch - Part No. 4A-36 Call

STARTING MOTOR



DELCO-REMY No. 1108306 (S/T); No. 1108307 (A/T)

DRIVE - No. 1946221 (D-2000)

FREE RUNNING SPEED - (Call)

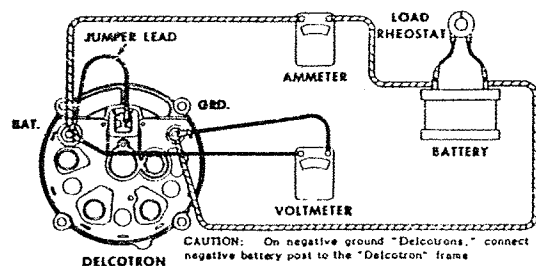
6750 - 10,500 Min. RPM 80* Amps. 10.6 Volts

RESISTANCE TEST - 280-320 Amps. 4.0 Volts

SOLENOID SWITCH - No. D-969

* Includes Solenoid

AC GENERATOR-DELCO-TRON BENCH TEST - OUTPUT TEST



CAUTION: On negative ground "Delco" units, connect the negative battery post to the "Delco" frame

DELCO-REMY - No. 1100639 (Std.); No. 1100698 (A.C. & Opt.)
GROUND - N ROTATION - (Dr. End) Counterclockwise
CIRCUIT - B

FIELD CURRENT (80°F) 2.2-2.6 Amps. at 12 Volts (Std.);
2.8-3.2 Amps. at 12 Volts (A.C.)

COLD OUTPUT -

(Std.) 14 Volts 25 Amps. at 2000 RPM, 35 Amps. at 5000 RPM
(A.C.) 14 Volts 31 Amps. at 2000 RPM, 45 Amps. at 5000 RPM

HOT RATED OUTPUT -

(1100639) 37 Amps., (1100698) 47 Amps.

REGULATOR

DELCO-REMY No. 1119515 (D635)-Std., 1119519 (A.C.)
VOLTAGE REGULATOR - Air Cap. 067"

Point Opening .014"

Field Relay - Air Gap .015"; Point Opening .030",
Closing Voltage - 1.5 - 3.2

TEMPERATURE VOLTAGE CHART - VOLTAGE SETTING

65°F.	85°F.	105°F.	125°F.	145°F.	165°F.	185°F.
13.9-15.0	13.8-14.8	13.7-14.6	13.5-14.4	13.4-14.2	13.2-14	13.1-13.9

(V) Operation on Lower Contacts must be .05-.4 volts
Lower than on Upper Contacts.

DISTRIBUTOR

DELCO-REMY - No. 1110310 (95 H.P. - S/T)
- No. 1110311 (95 H.P. - P/G)
- No. 1110319 (110 H.P. - ALL)
- No. 1110329 (180 H.P. - Turbo)
- No. 1110339 (140 H.P. - P/G)
- No. 1110330 (140 H.P. - 4 x 1 bbl. Carbs)

BREAKER CONTACT GAP - .020" (1110329-30). (Others) .016"
CAM ANGLE - 31° - 34°

BREAKER CONTACT SET - Part No. D108P

BREAKER ARM SPRING TENSION - 19-23 oz.

CONDENSER - Part No. (D-203) 1928111

CAPACITY - .18-.25 Mfd.

ROTATION - Clockwise (Viewed from top of distributor)

CENTRIFUGAL ADVANCE - (Dist. R.P.M.)

DIST. No.	1110310	1110311	1110339
Start	0-2° @ 450	0-2° @ 975	0-2° @ 550
Inter.	7-9° @ 1350	5-7° @ 1600	3.5-5.5 @ 1000
Maximum	13-15° @ 2100	9-11° @ 2100	8-10° @ 1600

DIST. No.	1110329	1110319	1110330
Start	0-2° @ 2050	0.2° @ 500	0-2 @ 500
Inter.	-	1.3° @ 600	-
Inter.	-	5.7° @ 1500	-
Maximum	8-10° @ 2450	9-11° @ 2400	8-10° @ 1400

VACUUM ADVANCE - (Dist. Degrees @ Inches Mercury)

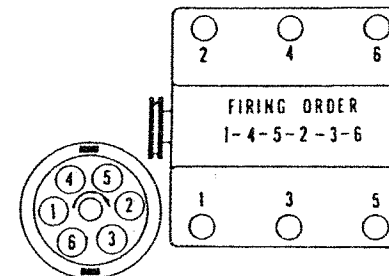
Control No.	1116229	1116230
Dist. No.	1110310	1110311-9-339
Start	5-7"	6-8" Hg.
Maximum	12° at 12-3/4-14-3/4"	12° at 14.5"-15.5" Hg.

Control No.	1116248	1116245
Dist. No.	1110330	1110329
Start	5-7" Hg.	1.5-2.5 PSI.*
Maximum	11° at 13.8-14" Hg.	4.3-4.5 PSI.*

*Pressure Retard

AIR-AIR INJECTION REACTOR (Smog Control)

DISTRIBUTOR (Cont'd.)



ENGINE COMPRESSION - 130 lbs. (U.S.)
- Var. 20 P.S.I.

* At Cranking Speed all plugs removed and throttle wide open.

SPARK PLUGS

AC - SIZE 14MM

46FF - GAP .035" (Std.-95 H.P.)

44FF - GAP .030" (Std.-Others)

Use Round Wire Gauge

IGNITION COIL

DELCO-REMY - No. 1115202

HIGH TENSION CABLES

IGNITION CABLE SET - PACKARD No. 456-D (All)

IGNITION TIMING

Breaker Points to Open - B.T.D.C.
W/O Air

6° (95-S/T)	10° (110-S/T*)
14° (95-A/T)	10° (110-A/T*)
9° (95-S/T*)	18° (140-A11)
4° (95-A/T*)	3° (140-S/T*)
14° (110-S/T2A/T)	8° (140-A/T*)
24° (110-A/T2A/C)	24° (100-A11)

All at Idle RPM and with Vacuum Line
Disconnected
/ with A.I.R.
Timing Mark Location-Vibration Damper.

FUEL SYSTEM	CARBURETOR (Cont'd.)	MISCELLANEOUS								
<u>FUEL PUMP</u> AC - No. 4886 (All) Pressure - 5-1/2 lbs. min.; 6-3/4 lbs. max.	VACUUM BREAK DIAPHRAGM ADJUSTMENT - (All) - To adjust push diaphragm plunger inward until seated, and then close choke valve to point where connecting rod is to end of slot in choke lever. With choke valve in this position .190" gauge should fit between lower edge of choke valve and inner air horn wall. To adjust, bend connecting rod. CHOKE ROD ADJUSTMENT (All) - To adjust, place fast tang on second step of fast idle cam next to highest step. Close choke valve so that trip lever on choke shaft just contacts choke tang on lever and collar assembly. (.190) gauge should just fit between lower edge of choke valve and inner air horn wall. To adjust, bend tang on trip lever up or down. UNLOADER ADJUSTMENT (All) - To adjust, hold throttle valve wide open (accelerator pedal depressed to floor), then .325 gauge should just fit between lower edge of choke valve and inner air horn wall. To adjust, bend unloader tang on throttle lever.	<u>VALVES</u> VALVE CLEARANCE - Hydraulic valve lifters VALVE TIMING - Intake valves open 44° (95 H.P.); 55° (All Others) before top dead center.								
<u>AIR CLEANER</u> AC - No. 6419705 (Closed PCV) 6422728 (A.I.R.) 6419984 (Closed PCV-Paper) 6422730 (A.I.R. - Paper) 6420244 (Spyder - Closed PCV) 6420884 (Spyder - Opt.) 6421253 (Closed PCV - Quad) 6422729 (A.I.R. - Quad.)	CARTER YH No. 4141S (S/T) 164 C.I. IDLE RPM - 850 RPM in neutral. Screw setting 1/4 to 2 turns open. CHOKE CLIMATIC CONTROL - Set 1 point lean. FIXED JETS - - Metering Rod Jet - (.0846") 120-257 - Metering Rod (Std.) - (.053" x .048") 75-2825 FLOAT ADJUSTMENT - 5/8" (bowl gasket removed) from center of float to bowl cover. To adjust, bend float lever. FLOAT DROP - 2-3/8" from bottom of float (at free end) to bowl cover. To adjust, bend stop tab on float arm. METERING ROD ADJUSTMENT - Insert gauge (T109-104) in place of metering rod, with throttle valve tightly closed, press down on diaphragm shaft until metering rod arm contacts lifter link at diaphragm stem. With diaphragm shaft held in this position, metering rod pin must rest lightly on metering rod gauge. To adjust, bend metering rod arm. ACCELERATING PUMP - Adjust none, if acceleration is not satisfactory examine diaphragm for wear or damage, clean and blow out all passages. Replace all worn or damaged parts. FAST IDLE ADJUSTMENT - (Coil housing removed) With choke valve tightly closed and fast idle link on high step of cam, adjust choke connector rod to give .033" opening between edge of throttle valve and carburetor bore (side opposite port). FAST IDLE ON CAR - Hot engine 2000-2500 RPM with link on high step of cam. UNLOADER ADJUSTMENT - Hold throttle valve wide open and close choke valve, there should be 7/16" between lower edge of choke valve and inner wall of air horn. To adjust, bend choke shaft unloader arm.	<u>COOLING SYSTEM</u> AIR-COOLED								
<u>CARBURETOR</u> ROCHESTER - H & HV Models No. 7026023 (S/T.-PRI), 7026024 (A/T-PRI) No. 7026026 (S/T & A/T-Sec.), 7036015(S/T-95 H.P w/Air) No. 7036014 (A/T-95 H.P. w/Air), No. 7036023 (S/T-110 & 140 H.P. w/Air) No. 7036024 (A/T-110 & 140 H.P.-w/Air) Engine Idle Speed - 500 RPM (95 H.P.) 650 RPM (110-140 H.P.), 600 RPM(Drive)-A/T-95 H.P. w/A.C., 700 RPM. (All others w/ A.C.) Fixed Sets - Main Metering -	<u>WINDSHIELD WIPER</u> DELCO-APPLIANCE - Service Motor No. 4911945 - (1 Speed) Service Motor No. 4911476 - (2 Speed) Washer Pump No. 4912365 (All) Linkage - (Drivers Side) - 4915410 (Passenger Side) 4915411 TRICO - Wiper Arm (Both Sides Same) No. AL-250 Blade (Both Sides Same) No. PR-15-2W Blade (Refill) No. RF-15 or LP-15	<u>ADDITIONAL SPECIFICATIONS</u> CRANKCASECAPACITY - 3 qts. Refill (U.S.) - 2.4 qts. Refill (Can.) Add - 1/2 qt. w/Filter Change RECOMMENDED TIRE PRESSURE - (Cold) 15 lbs. Front, 26 lbs. Rear - Std. 15 lbs. Front 28 lbs. Rear - Convertible GAUGES - AC Gasoline Gauge - Dash Unit No. 6430225 (CORSA) Dash Unit No. 6430291 (Std.) Tank Unit No. 6425531 (All) Temperature Gauge - Dash Unit No. 6401645 (CORSA) SPEEDOMETER - AC - - No. 6455435 (Std.); 6455245 (CORSA) Cable No. 6453315 - 59-39/64" (All) HORNS - DELCO - Low No. 9000539 High No. 9000540 Relay - 1115811								
<table border="1"> <thead> <tr> <th>Carb.</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>7026026</td> <td>7002646</td> </tr> <tr> <td>7026023-36014-24</td> <td>7002649</td> </tr> <tr> <td>7026024-36015-23</td> <td>7002650</td> </tr> </tbody> </table> FLOAT LEVEL - (All) 1-1/16" between gasket and top of floats (air horn inverted). FLOAT DROP(All)-1-13/16" between bottom edge of float at toe and air horn gasket. (Air horn upright.) PUMP ROD ADJUSTMENT (All) - Back out idle stop screw until the throttle valves are completely closed in bore. Bend pump rod until the index line on upper pump lever just aligns with sharp edge on air horn casting. NOTE: On Powerglide applications using a two hole lower pump lever, setting should be made with pump rod placed in outer hole. After setting is made, pump rod should be moved to inner hole on lever for proper operation. IDLE VENT VALVE ADJUSTMENT (All) - To adjust, bend the tang on the throttle lever so that when the vent valve just starts to open .015" gauge will just go between the throttle valve and the bore directly opposite the idle needle. Do not bend the spring arm on the vent valve as distortion may result.	Carb.	Part No.	7026026	7002646	7026023-36014-24	7002649	7026024-36015-23	7002650	AIR - AIR INJECTION REACTOR (SMOG CONTROL)	<u>OIL FILTER</u> AC - Element - No. PF-4
Carb.	Part No.									
7026026	7002646									
7026023-36014-24	7002649									
7026024-36015-23	7002650									