

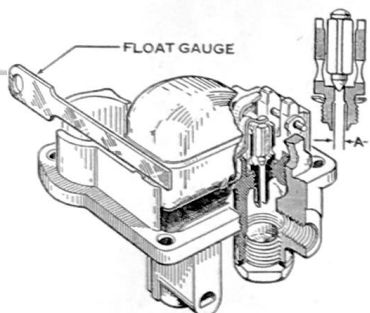
WAI SINGLE CARBURETER

Carb. No.	Casting No.	Year	PARTS PACKAGE		Gasket Assortment
			Standard	I Size Lean	
454S	298	1940-42 Early	1078	1178	139A

NOTES: Late 1942 models used 524S carbureter, refer to catalog sheet listing W1 carbureters, Form 9535.

For 1940-42 do not confuse above die-cast WAI carbureters with cast-iron W1 models also used during part of that period. W1 carbureters are covered on a separate sheet, Form 9535. Dual (WDO) carbureters are also listed on a separate sheet, Form 9536.

1. FLOAT CIRCUIT



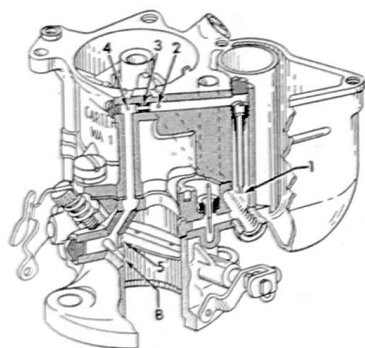
Needle Seat Orifice "A" and Part No.:

48 Dr. (25-33S) 1940-42

Float Level Setting:

3/8" 1940-42

2. LOW SPEED CIRCUIT



(1). Low Speed Jet Orifice and Part No.:

70 Dr. (11-163S) 1940-42

(2). By-Pass Orifice:

53 Dr. 1940-42

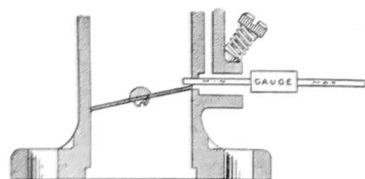
(3). Economizer Orifice:

.0755"-.0765" 1940-42

(4). Idle Bleed Orifice:

50 Dr. 1940-42

(5). Idle Port Opening:



.120"-.124" 1940-42

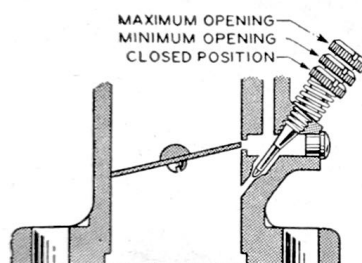
Note: Idle port opening is measured above valve, with valve closed tight.

Idle Mixture Screw Orifice "B":

46 Dr. 1940-42

Idle Mixture Screw Setting,

Minimum and Maximum turns open:
3/4-1 1/2 1940-42



Minimum Idling Speed, mph—in high gear:

7 1/2-8 mph. 1940-42

3. HIGH SPEED CIRCUIT

Nozzle Specifications:



C-Outlet D-Inner E-Upper F-Plug Orifice

Orifice Diameter Orifice & Part No. Part No. Year and Model
48 Dr. 30 Dr. 75 Dr. 30 Dr. (11B-34) 12-261 1940-42

Metering Rod, Standard, Step Sizes and Part No.:

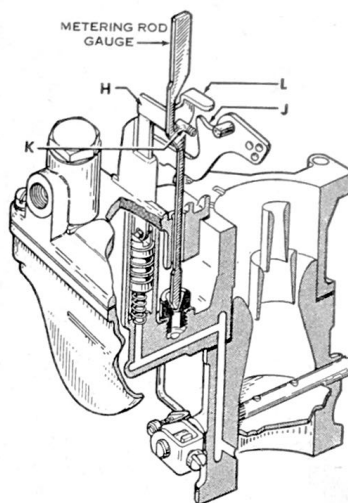
Economy Step	Middle Step	Power Step	Part No.	Year and Model
Size .072"	Size .072"-.064"	Size .044"	75-407	1940-42

Note: Leaner than standard rods for use at high altitudes may be found in parts list.



"G"—Typical 3-Step Metering Rod.

Metering Rod Gauge and Part No.:



T109-102 1940-42

Metering Rod Setting:

Back out throttle adjusting screw to permit throttle valve to seat in carbureter bore. Hold vacuum piston link "H" so that lip "L" rests lightly against point "J" of metering rod arm. With metering rod gauge in position, there should be less than .005" clearance at "K." Adjust by bending lip "L."

Note: Adjust pump travel before metering rod setting.

CARTER CARBURETOR CORPORATION
ST. LOUIS, MO., U. S. A.

HUDSON SPECIFICATIONS 6 CYLINDER 1940-42

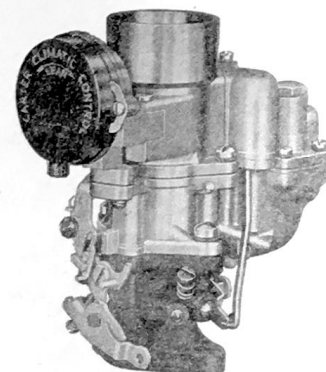
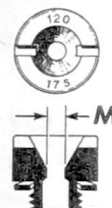


Figure shows 454S carburetor

Metering Jet Orifice "M" and Part No.:



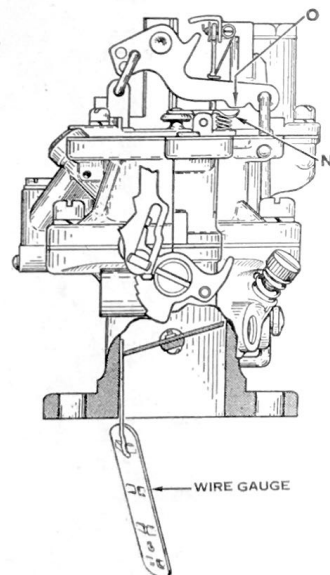
.096" (120-17S) 1940-42

Vacuum Piston Spring:



61-175 1940-42

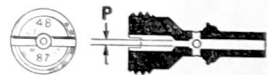
Anti-Percolator Setting:



Open throttle valve .030" by placing a .030" wire gauge directly opposite the idle port. Adjust by bending the anti-percolator arm "N" to provide .010" clearance between anti-percolator arm "N" and pump arm "O". Make this adjustment after setting pump travel and metering rod.

4. PUMP CIRCUIT

Pump Jet Orifice "P" and Part No.:

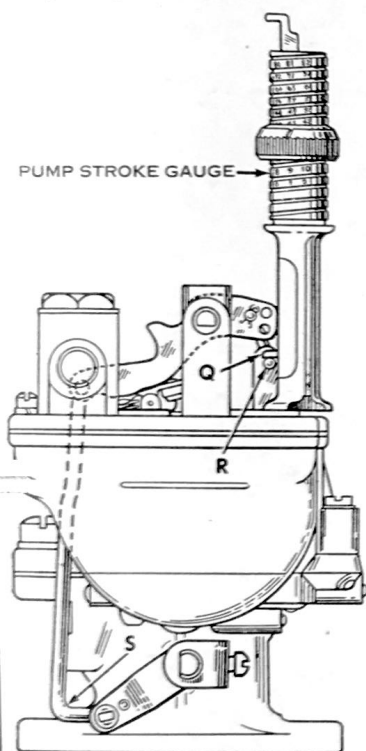


8 Dr. (48-87).....1940-42

Pump Cylinder Spring



Pump Plunger Travel:



12/64" short stroke.....1940-42

Pump Travel Setting:

Back out throttle adjusting screw to permit throttle valve to seat in carburetor bore and see that pump connector link is in short stroke position. Place pump travel gauge on bowl cover ridge and rotate the knurled nut on gauge until the finger "Q" rests on the top surface of the lower end of pump connector link "R," then read the figure on gauge even with the notch on the knurled nut. Repeat the operation with throttle opened fully and again read the figure on the gauge. When correctly adjusted, the difference between these two figures should be 12. (12/64" pump travel.) To adjust, bend throttle connector rod at "S."

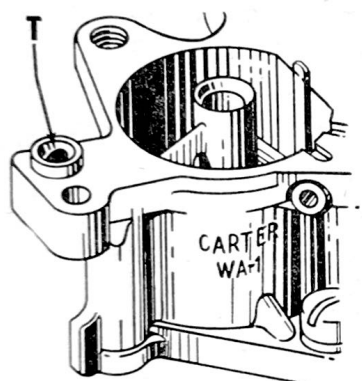
Note: Adjust pump travel before metering rod and anti-percolator setting.

5. CHOKE CIRCUIT

Coil Setting and Part No.:
Center index (170F64S)....1940-42

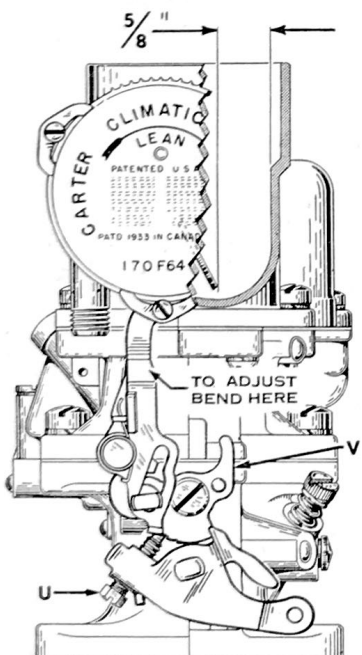


Choke Heat Suction Hole "T" in Body:



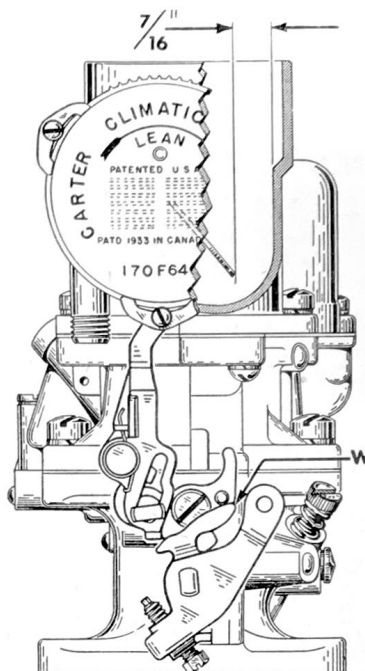
36 Dr.1940-42

Fast Idle Setting:



With throttle closed, idle speed adjusting screw "U" is set against first step on fast idle cam "V." Bend fast idle connector link until clearance between lower edge of choke valve and inner wall of air horn is 5/8". (1940-42.)

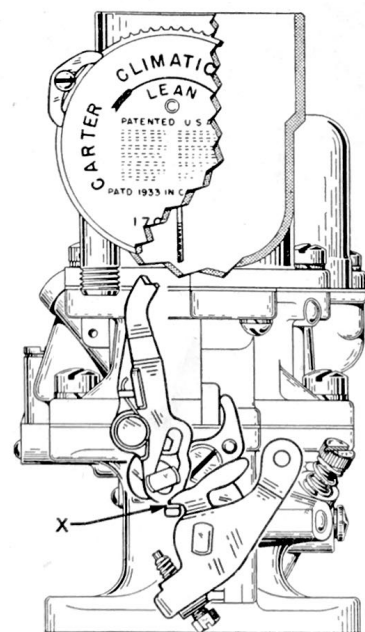
Unloader Setting:



With throttle valve wide open, there should be 7/16" clearance between lower edge of choke valve and inner wall of air horn. Adjust by bending cam "W" on throttle lever.

7/16"1940-42

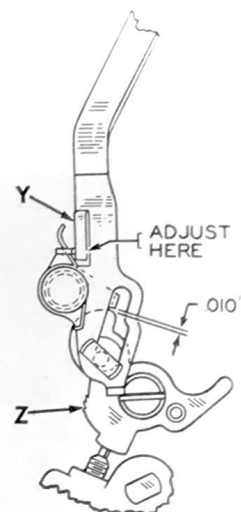
Lock Out Clearance:



There should be 1/32" clearance between throttle lever lock and lip on choker link at "X" when both throttle and choke valves are fully open.

Trip Lever Adjustment:

With choke valve closed and fast idle cam pin resting at bottom of



slot in fast idle connector link, adjust trip lever stop "Y" to give .010" clearance between fast idle cam "Z" and trip lever lip.

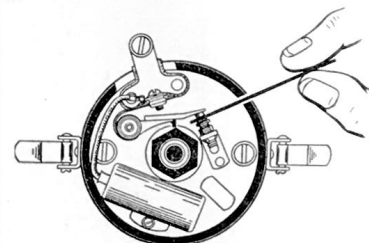
HUDSON MOTOR TUNE-UP 6 CYLINDER 1940-42

SPARK PLUG GAP



.032"1940-42

BREAKER POINT GAP

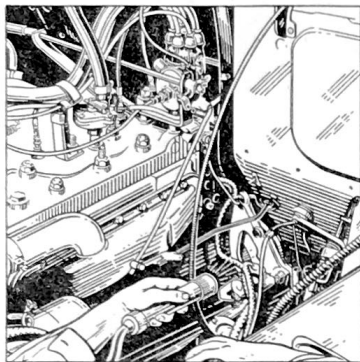


.020"1940-42

IGNITION TIMING

Breaker Points to Open:

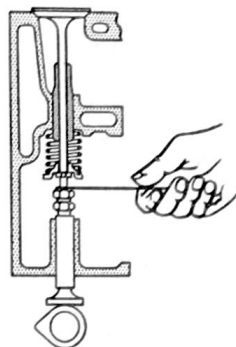
T.D.C.1940
1/2" B.T.D.C.....1941-42



FLYWHEEL MARKINGS

VALVE SETTING

With Motor at Operating Temperature:



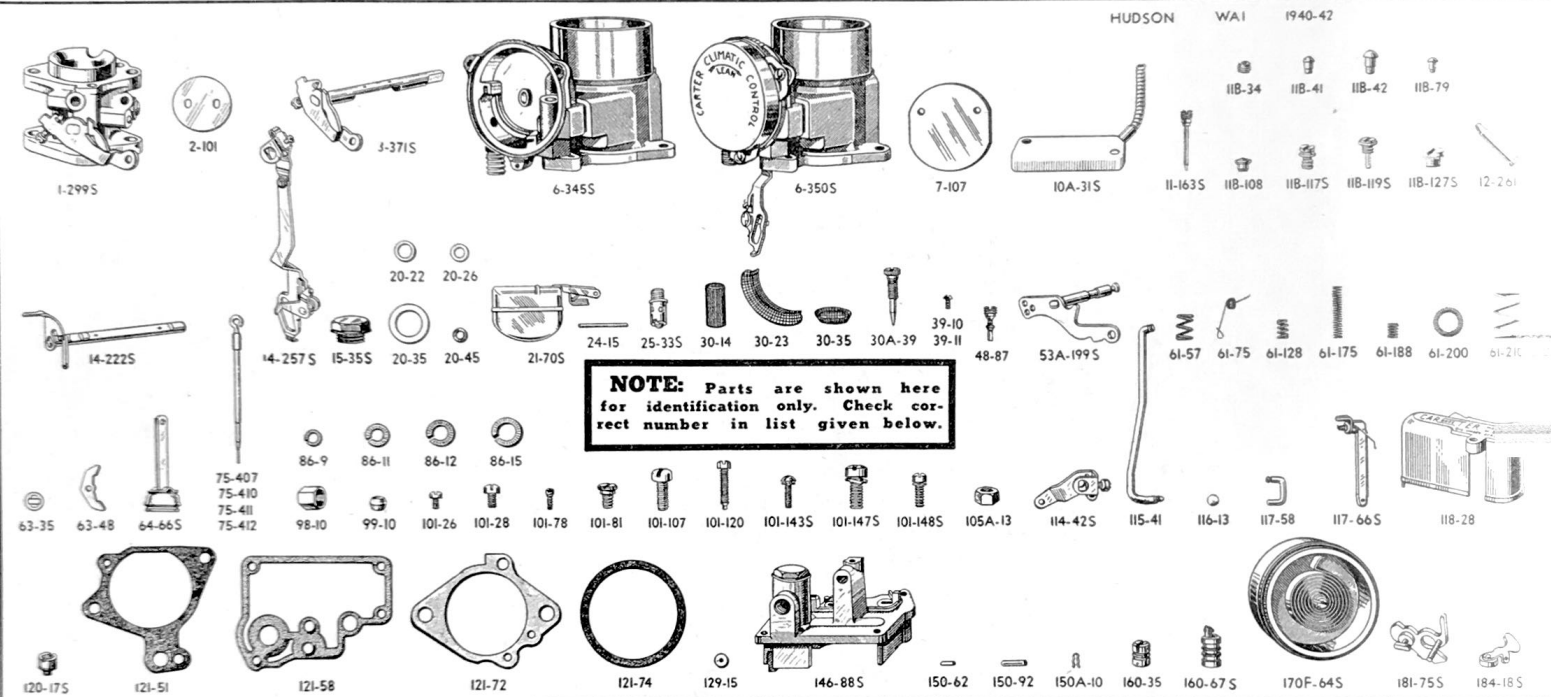
Intake	Exhaust	
.006"	.008"	1940-1941 to Eng 106848
.010"	.012"	1941, Eng. 106848 and later
.010"	.012"	1942

Note: Be sure to run the engine long enough to thoroughly warm the engine oil in the crankcase before attempting to adjust valves.

Abbreviations:

T.D.C.—Top dead center

B.T.D.C.—Before top dead center



HUDSON PARTS LIST 6 CYLINDER 1940-42

FLANGE	1-299S	1940-42
THROTTLE VALVE	2-101	1940-42
THROTTLE SHAFT	3-371S	1940-42
AIR HORN	6-345S	1940-42
AIR HORN AND CLIMATIC CONTROL	6-350S	1940-42
CHOKE VALVE	7-107	1940-42
MANIFOLD STOVE AND TUBING	10A-31S	1940-42

LOW SPEED JET	11-163S	1940-42
NOZZLE RETAINER PLUG	11B-34	1940-42
RIVET PLUG	11B-41	1940-42
FLANGE RIVET PLUG	11B-42	1940-42
RIVET PLUG	11B-79	1940-42
IDLE PORT PASSAGE RIVET PLUG	11B-108	1940-42
LOW SPEED JET PASSAGE SCREW PLUG	11B-117S	1940-42
DISCHARGE BALL RETAINER PLUG	11B-119S	1940-42
PUMP JET PASSAGE OR NOZZLE PASSAGE PLUG	11B-127S	1940-42

NOZZLE	12-261	1940-42
CHOKE SHAFT	14-222S	1940-42
CHOKE LEVER AND LINK	14-257S	1940-42
BOWL COVER STRAINER PLUG	15-35S	1940-42
NEEDLE SEAT OR PASSAGE PLUG GASKET	20-22	1940-42
METERING ROD JET GASKET	20-26	1940-42
BOWL COVER STRAINER GASKET	20-35	1940-42
NOZZLE GASKET	20-45	1940-42
FLOAT	21-70S	1940-42

FLOAT PIN	24-15	1940-42
NEEDLE AND SEAT	25-33S	1940-42
BOWL COVER STRAINER GAUZE	30-14	1940-42
CHOKE HOUSING STRAINER	30-23	1940-42
PUMP CYLINDER STRAINER	30-35	1940-42
IDLE MIXTURE ADJUSTMENT SCREW	30A-39	1940-42
CHOKE VALVE SCREW	39-10	1940-42
THROTTLE VALVE SCREW	39-11	1940-42
PUMP JET	48-87	1940-42
PUMP ARM	53A-199S	1940-42

IDLE MIXTURE ADJ. SCREW SPRING	61-57	1940-42
METERING ROD SPRING	61-75	1940-42
CONNECTOR ROD SPRING	61-128	1940-42
VACUUM PISTON SPRING	61-175	1940-42
ANTI-PERCOLATOR ARM SPRING	61-188	1940-42
LEATHER EXPANDER SPRING	61-200	1940-42
CONNECTOR ROD SPRING RETAINER	63-93	1940-42

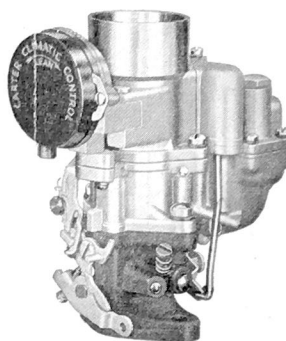
COIL HOUSING RETAINER	BODY TO FLANGE SCREW LOCK WASHER	AIR HORN UPPER SCREW	PUMP CONNECTOR LINK	BOWL COVER AND STRAINER
3-481940-42	86-121940-42	101-1071940-42	117-581940-42	146-88S1940-42
PUMP PLUNGER	FLANGE STUD NUT LOCK WASHER	IDLE SPEED ADJUSTING SCREW	VACUUM PISTON LINK	CHOKE PISTON PIN
4-56S1940-42	86-151940-42	101-1201940-42	117-66S1940-42	150-621940-42
METERING ROD, STANDARD	HOT AIR TUBING COUPLING NUT	AIR HORN LOWER SCREW	DUST COVER	ANTI-PERCOLATOR PIN
5-4071940-42	98-101940-42	101-143S1940-42	118-281940-42	150-921940-42
METERING ROD, SIZE LEAN	HOT AIR TUBING COUPLING CONE	BODY TO FLANGE SCREW	METERING ROD JET	CONNECTOR ROD PIN SPRING
5-4101940-42	99-101940-42	101-147S1940-42	120-17S1940-42	150A-101940-42
METERING ROD, SIZES LEAN	COIL HOUSING SCREW	BOWL COVER OR DUST COVER SCREW	AIR HORN GASKET	CHOKE PISTON
5-4111940-42	101-261940-42	101-148S1940-42	121-511940-42	160-351940-42
METERING ROD, SIZES LEAN	THROTTLE SHAFT ARM SCREW	FLANGE STUD NUT	BOWL COVER GASKET	VACUUM PISTON
5-4121940-42	101-281940-42	105A-131940-42	121-581940-42	160-67S1940-42
BOWL COVER SCREW OR AIR HORN LOWER SCREW LOCK WASHER	CHOKE LEVER SCREW	THROTTLE SHAFT ARM	BODY TO FLANGE GASKET	THERMOSTATIC COIL AND HOUSING
6-91940-42	101-781940-42	114-42S1940-42	121-721940-42	170F64S1940-42
AIR HORN UPPER SCREW LOCK WASHER	FAST IDLE CAM SCREW	PUMP CONNECTOR ROD	COIL HOUSING GASKET	FAST IDLE CAM
7-111940-42	101-811940-42	115-411940-42	121-741940-42	181-75S1940-42
		PUMP BALL CHECK	METERING ROD DISK	ANTI-PERCOLATOR CAP AND ARM
		116-131940-42	129-151940-42	184-18S1940-42

CAR AND MOTOR NUMBERS

1940—40101 and Higher

1941—10101 and Higher

1942—20101 and Higher



Casting No. 298 on face of flange

WAI Down-Draft Climatic Control Carburetor—Model 454S—List Price \$20.00

A \$5.00 exchange allowance is deducted from the list price if buyer turns in old carburetor.

HUDSON

"40" SIX—1940

"10" SIX—1941

"20" SIX—1942

U. S. A. PRODUCTION

CARBURETOR SPECIFICATIONS

For Hudson 6 Cylinder Engine: 3 Inch Bore, 4 1/8 Inch Stroke

Dimensions: Flange size, 1 1/4 inch S. A. E.

Primary venturi, 1 1/32 inch I. D.

Secondary venturi, 1 1/16 inch I. D.

Main venturi, 1 1/4 inch I. D.

Float Level: Distance from seam of float (at free end) to tip on lower edge of float chamber cover, when needle is seated, to be 3/8 inch.

Vents: Outside, No. 10 drill. Inside, none.

Gasoline Intake: Square vertical needle. Size No. 48 drill hole in needle seat.

Gas Line Connection: 5/16 inch Weatherhead nipple.

Low Speed Jet Tube: Jet size, No. 70 drill.

By-pass, size No. 53 drill.

Economizer, .0755-.0765 inch diameter.

Idle bleed, size No. 50 drill.

Idle Port: Length .165 inch; width .032 inch.

Idle Port Opening: .120 to .124 inch above valve with valve closed tight.

Idle Screw Seat: No. 46 drill.

Set Idle Adjustment Screw: 3/4 to 1 1/2 turns open. For richer mixture, turn screw out. Do not attempt to idle engine below a speed equivalent to 7 1/2-8 M.P.H. on level road.

Main Nozzle: In primary venturi, angle 45°. Closed tip. Inside diameter No. 30 drill.

Upper hole: No. 75 drill on 45° angle.

Lower hole: No. 48 drill on 70° angle.

Metering Rod (Vacumeter Type): Economy step, .072 inch diameter; middle step tapers to .064 inch; power step, .044 inch diameter. Length 3-9/64 inches.

Metering Rod Jet: .096 inch diameter.

Metering Rod Setting: Use gauge, part No. T109-102 (2.468 inches).

Accelerating Pump: Low pressure type with adjustable stroke. Discharge jet, size No. 68 drill.

Intake ball check, size No. 40 drill.

Discharge ball check, size No. 32 drill.

Relief passage (to outside), size No. 42 drill.

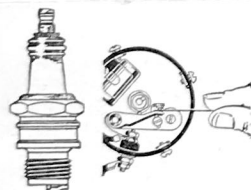
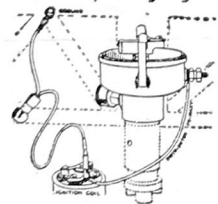
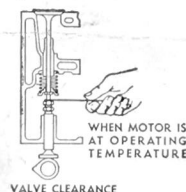
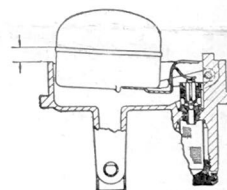
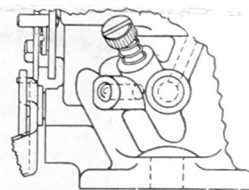
Pump Adjustment: 12/64 inch plunger travel (full throttle position) short stroke. Use gauge No. T109-117S.

Choke: Carter Climatic Control, set at index. Butterfly type, offset valve. Choke Heat Suction Hole, in body, size No. 36 (.1065") drill.

Vacuum Spark Port: .039 to .041 inch diameter. Bottom of port .021 to .029 inch above valve.

Motor Tune-Up—Be Accurate! Always Use Feeler Gauges!

CAUTION: Change worn or leaky flange gaskets. Tighten manifold bolts and test compression before adjusting carburetor.

Spark
Plug Gap
.032"Set
Breaker Points
.020"Use Timing Light
Breaker Points to Open:
1940—T. D. C.
1942—1/2" B. T. D. C.
Ethyl Fuel—Maximum Setting
3/4" B. T. D. C.Set Valves
1940-41 { Intake .006"
(thru 106848) Exhaust .008"
1941 {
(106849 and higher) Intake .010"
1942 { Exhaust .012"Correct Float Level
(Measure from machined
surface of small projection
to top of seam) 3/8 inchIdle Adjustment Screw
Setting 3/4 to 1 1/2
Turns Open

BRIEF CARBURETOR ADJUSTMENTS

PUMP ADJUSTMENT: With throttle valve seated and connector link in place (short stroke: hole nearest countershaft), pump plunger should travel 12/64" from closed to wide open position. Adjustment should be made by bending throttle connector rod at lower angle. Pump travel can be measured by using universal pump stroke gauge T109-117S. Place base of gauge on ridged portion of bowl cover so that projecting portion of pump gauge rests on top surface of connector link at pump shaft. Hold gauge vertical. The difference between the number shown by index mark on gauge, at wide open and closed positions, should be 12.

METERING ROD ADJUSTMENT: Correct setting of metering rod is important and must be made after pump adjustment. Insert gauge (tool No. T109-102) in place of metering rod, seating tapered end in metering rod jet. Hold gauge vertical to insure seating. With throttle valve seated, press down lightly on piston link directly over piston. There should be less than .005" clearance between metering rod pin and shoulder in notch of gauge. Gauge must not drag on pin. Adjustment can be made by bending lip on piston link so that it contacts pump arm. (Use tool T109-105.) Remove gauge and install metering rod and disk. Connect metering rod and spring.

ANTI-PERCOLATOR ADJUSTMENT: Crack throttle valve (20) by placing gauge T109-29 between valve and bore of carburetor (side opposite port). Bend rocker arm (use tool T109-105) until there is a clearance of .005" to .015" between rocker arm and pump arm.

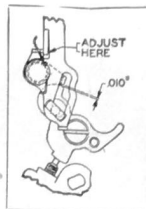
FAST IDLE ADJUSTMENT: With fast idle cam held in normal idle position, tighten throttle lever adjusting screw until it just seats against cam. Hold throttle lever closed and pull cam back until first (or lower) step on cam is against (not on) set screw.

There should now be $\frac{5}{16}$ " clearance between inside wall of air horn and lower edge of choke valve. (Use tool T109-85.) Adjustment can be made by bending at offset portion of fast idle link. (Use tool T109-41.)

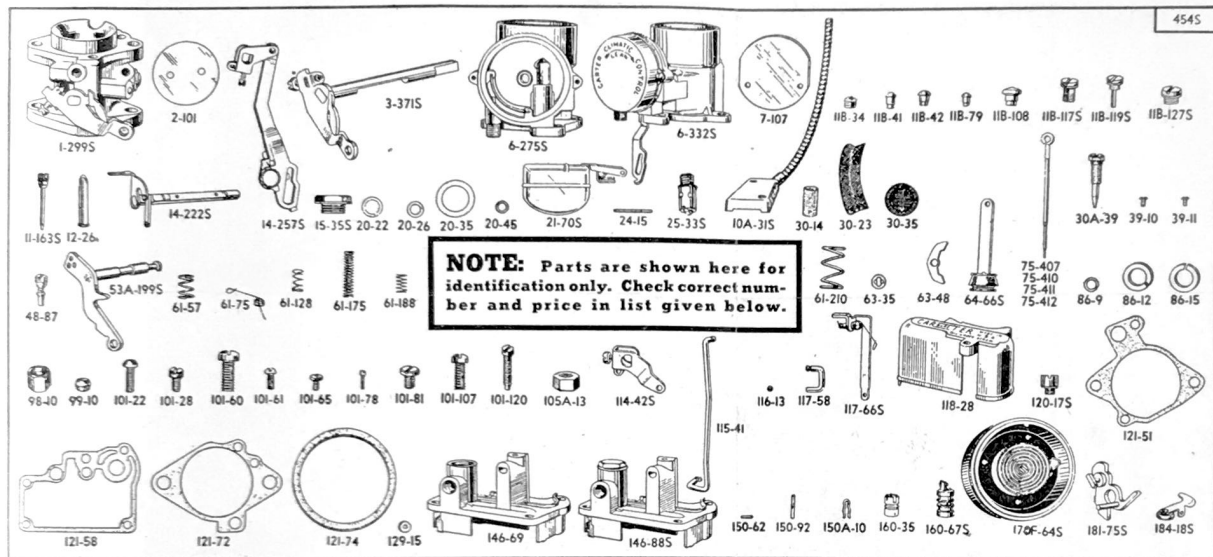
UNLOADER ADJUSTMENT. With throttle valve wide open there should be $\frac{7}{16}$ " clearance between lower edge of choke valve and inner wall of air horn. (Use tool T109-81.) Adjustment should be made by bending cam on throttle lever.

(Use tool T109-41.)

LOCK-OUT ADJUSTMENT: With throttle and choke valves wide open, choke should lock in wide open position. Adjustment should be made by bending lip at lower end of fast idle link to give $\frac{1}{32}$ " clearance between lip and throttle lever lock, with throttle and choke valves held wide open. (Use tool T109-105.)



TRIP LEVER ADJUSTMENT: After making all choke linkage adjustments, hold choke valve tightly closed with pin on fast idle cam resting at bottom of slot in fast idle link. Adjust stop for trip lever to give .010" clearance between fast idle cam and trip lever lip. (See cut.)



Hudson 6-1940-41—No. 454S—List Price \$20.00

WHEN SERVICING, USE GASKET ASSORTMENT No. 139A—PRICE \$0.70; REPAIR PACKAGE No. 1078, PRICE \$3.95

PART NAMES IN BOLD TYPE, LISTED BELOW, INDICATE CONTENTS OF REPAIR PACKAGE

Part No.	PART NAME	List Price	Part No.	PART NAME	List Price
1-299S	Body flange assembly.....	\$3.75	75-410	Meter'g rod—1 size lean—.074"—.074" to .066"—.046".....	.30
2-101	Throttle valve.....	.10	75-411	Meter'g rod—2 sizes lean—.076"—.076" to .068"—.048".....	.30
3-371S	Throttle shaft and lever assembly.....	.80	75-412	Meter'g rod—3 sizes lean—.078"—.078" to .070"—.050".....	.30
6-275S	Air horn and housing ass'y (Sup. by 6-345S).....	2.00	86-9	Bowl cover lock washer (Use with 101-22 and 101-61).....	(6) .01
6-332S	Air horn & clim. con. ass'y (Sup. by 6-350S).....	5.50	86-11	Air horn lock washer.....	(2) .01
6-345S	Air horn and piston housing assembly.....	2.00	86-12	Body flange lock washer (Use with 101-60).....	(2) .01
6-350S	Air horn and climatic control assembly.....	5.50	86-15	Flange stud lock washer.....	(2) .01
7-107	Choke valve.....	.20	98-10	Compression coupling nut.....	.15
10A-31S	Manifold stove, connection and tubing ass'y.....	.50	99-10	Compression coupling cone.....	.10
11-163S	Low speed jet assembly—No. 70 drill.....	.30	101-22	Piston housing attach. screw (Sup. by 101-143S).....	.05
11B-34	Nozzle retainer plug.....	.10	101-26	Thermostat housing attaching screw.....	(3) 2 for .05
11B-41	Rivet plug.....	.02	101-28	Throttle shaft arm clamp screw.....	(2) .05
11B-42	Body flange rivet plug.....	.02	101-60	Body flange attach. screw (Sup. by 101-147S).....	(2) .05
11B-79	Rivet plug.....	(5) .02	101-61	Bowl cover attach. screw (Sup. by 101-148S).....	(5) .05
11B-108	Idle port rivet plug.....	.02	101-65	Thermostat housing attaching screw (Sup. by 101-26).....	2 for .05
11B-117S	Idle passage plug and gasket assembly.....	.10	101-78	Choke lever clamp screw.....	.05
11B-119S	Ball retainer plug and gasket assembly.....	.10	101-81	Fast idle cam screw.....	.05
11B-127S	Pump jet and nozzle plug and gasket ass'y.....	(2) .10	101-107	Air horn attaching screw.....	(2) .05
12-261	Nozzle.....	.30	101-120	Throttle lever adjusting screw.....	.05
14-222S	Choke piston lever link and shaft ass'y.....	.60	101-143S	Piston housing attaching screw and washer ass'y.....	.05
14-257S	Choke lever, screw and link assembly.....	.60	101-147S	Body flange attaching screw and washer ass'y.....	.05
15-35S	Strainer nut and gasket assembly.....	.30	101-148S	Bowl cover attaching screw and washer ass'y.....	.05
20-22	Needle seat gasket.....	(3) .05	105A-13	Flange stud nut.....	(2) .05
20-26	Metering rod jet gasket.....	(3) .05	114-42S	Throttle shaft arm and screw assembly.....	.20
20-35	Bowl strainer gasket.....	.05	115-41	Throttle connector rod.....	.25
20-45	Nozzle gasket.....	.05	116-13	Ball.....	(2) .02
21-70S	Float and lever assembly.....	.80	117-58	Pump connector link.....	.05
24-15	Float lever pin.....	.05	117-66S	Piston link and spring assembly.....	.25
25-33S	Needle and seat assembly.....	.10	118-28	Dust cover.....	.50
30-14	Bowl strainer gauze.....	.10	120-17S	Metering rod jet and gasket assembly—.096".....	.30
30-23	Piston housing strainer.....	.15	121-51	Air horn gasket.....	.05
30-35	Pump strainer.....	.10	121-58	Bowl gasket.....	.10
30A-39	Idle adjustment screw.....	.30	121-72	Body flange gasket.....	.10
39-10	Choke valve attaching screw.....	(2) 2 for .05	121-74	Coil housing gasket.....	.05
39-11	Throttle valve attaching screw.....	(2) 2 for .05	129-15	Metering rod disk.....	.02
48-87	Pump jet—No. 70 drill.....	.20	146-69	Bowl cover (Not sold separately, part of 146-88S).....	1.30
53A-199S	Pump arm and countershaft assembly.....	.50	146-88S	Bowl cover and strainer assembly.....	.02
61-57	Adjustment screw spring.....	.05	150-62	Piston pin.....	.02
61-75	Metering rod spring.....	.10	150-92	Anti-percolator pin.....	.02
61-128	Connector rod spring.....	.05	150A-10	Pin spring.....	(3) .01
61-175	Vacuum piston spring.....	.05	160-35	Choke piston.....	.20
61-188	Rocker arm spring.....	.10	160-67S	Vacuum piston and pin assembly.....	.30
61-210	Pump spring.....	.10	170F-64S	Thermostat housing and coil assembly.....	2.00
63-35	Spring retainer.....	.05	181-75S	Fast idle cam and pin assembly.....	.20
63-48	Housing retainer.....	(3) .05	184-18S	Anti-percolator cap and rocker arm ass'y.....	.25
64-66S	Plunger and rod assembly (Identify by Shaft No. 49-123).....	.70			
75-407	Metering rod—standard—.072"—.072" to .064"—.044".....	.30			

*Gaskets so marked must be soaked in 90 proof denatured alcohol for 15 minutes, installed on part and let dry before using.

NOTE: Small figures in parentheses preceding list prices indicate number of pieces used in one carburetor. Where no figure is shown, only one is used.

ADD 5% TO PRICES SHOWN WITH FRACTIONAL ADJUSTMENT TO NEAREST EVEN CENT. (See Form 3423.) TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE PRICES LISTED HEREIN ARE NOT IN EXCESS OF THE PRICES PROVIDED BY THE APPLICABLE PREVAILING PRICE REGULATION OF THE OFFICE OF PRICE ADMINISTRATION.

HUDSON 1941

6, 8

1941 Models

MOTOR		MOTOR OIL RECOMMENDATIONS				CAPACITY (Qts.)	DRAINING INTERVALS	COOLING SYSTEM CAPACITY	GAS TANK CAPACITY
TYPE	MODEL	Below + 15°	15° to 35°	35° to 90°	Hard Driving Above 90°				
6 Cyl.	6	SAE 10	SAE 20	SAE 20	SAE 30	4½	1000		
8 Cyl.	8	SAE 10	SAE 20	SAE 20	SAE 30	7	1000		
TRANSMISSION		LUBRICANT RECOMMENDED				CAPACITY (Pts., Lbs.)	DRAINING INTERVALS		
TYPE	MODEL	Below + 15°	15° to 45°	45° to 90°	Above 90°				
Syn. Mesh.	6, 8	SAE 90 EP	SAE 90 EP	SAE 90 EP	SAE 90 EP	2	5000		
Overdrive	6, 8	SAE 90 EP	SAE 90 EP	SAE 90 EP	SAE 90 EP	3¼	5000 See Note		
DIFFERENTIAL		LUBRICANT RECOMMENDED				CAPACITY (Pts., Lbs.)	DRAINING INTERVALS	Qt.	Gal.
TYPE	MODEL	Below + 15°	15° to 45°	45° to 90°	Above 90°				
Spiral Bevel	6	SAE 90 EP	SAE 90 EP	SAE 90 EP	SAE 90 EP	2¾	5000	13	See Note
Spiral Bevel	8	SAE 90 EP	SAE 90 EP	SAE 90 EP	SAE 90 EP	2¾	5000	18	16½
UNIT		TYPE	LUBRICANT		INSTRUCTIONS				
DISTRIBUTOR		Grease Cup (6 Cyl.) Oiler (8 Cyl.) Wick	Ballroll Light Motor Oil SAE 20		Turn down 1 turn every 1000 miles. Also 2 drops Homelube on wick under rotor every 2000 miles.				
WATER PUMP		Metered Fitting	Chassis Lubricant		Fill every 1000 miles.				
FAN HUB BEARING					No lubrication required.				
GENERATOR		2 Oilers	Motor Oil SAE 20		Two drops every 1000 miles.				
STARTER		2 Oilers	Motor Oil SAE 20		Two drops every 1000 miles.				
CLUTCH RELEASE BEARING		Fitting	Ballroll Light		Lubricate every 1000 miles.				
STEERING GEAR		Plug	Gear Oil SAE 140 EP		Remove plug and fill every 1000 miles.				
UNIVERSAL JOINT			Chassis Lubricant		See Note.				
UNIVERSAL SPLINE		Plug	Chassis Lubricant		Lubricate every 1000 miles.				
SPRING SHACKLES		4 Fittings	Chassis Lubricant		Lubricate every 1000 miles.				
CHASSIS POINTS		21 Fittings	Chassis Lubricant		Lubricate every 1000 miles. See Note.				
FRONT WHEEL BEARINGS		Remove	Ballroll Light		Remove and repack every 5000 miles.				
REAR WHEEL BEARINGS		Remove	Ballroll Light		Remove and repack every 10,000 miles.				
SPRINGS		Fabric Covers	Spring Lubricant		Service every 5000 miles.				
PARKING BRAKE CABLES		Conduits	Spring Lubricant		Service every 5000 miles. See Note.				
WET CLUTCH			Hudsonite Special Clutch Oil		Lubricate every 5000 miles. See Note.				

LUBRICATION POINTS: 43

LUBRICANTS REQUIRED: 7

STOP-WEAR
LUBRICATION

 Published and Copyrighted 1940
UNION OIL COMPANY OF CALIFORNIA

Printed in U.S.A.

NOTES:

1. Chassis Points: Support arm shafts 4; support arms 4; spindle supports 4; king pins 2; tie rods 4; drag link 2; pedal shaft 1.
2. Shock Absorbers (Delco or Monroe; telescoping type) : Refer to Stop-Wear Manual. Service every 5000 miles.
3. Refer to Stop-Wear Manual for: Air cleaner (AC, wire gauze) ; heavy duty air cleaner (AC, special) ; springs.
4. Battery: Under hood, left side.
5. Transmission with Overdrive: Two drain plugs and two filler plugs. Drain through both drain plugs.
6. Gas Tank: Capacity 16½ gal., except 10T, 10P, 10C and Utility models, 12½ gal.
7. Universal Joints (Spicer) : Disassembly necessary every 20,000 miles; refer to Stop-Wear Manual.
8. Parking Brake Cables: Partial disassembly or special tool needed; refer to Stop-Wear Manual.
9. Clutch: Capacity ⅓ pt. Plug in flywheel reached through opening between engine and starter.
10. Automatic Vacuum Clutch Control: If so equipped, remove plug at rear of cylinder and inject 1 oz. Homelube every 10,000 miles.
11. Miscellaneous: Oil all moving chassis metal parts. Do not spray or oil rubber mounted parts. Use Union Stop Squeak on all rubber shackles and rubber mountings.

HUDSON Six 1941

Series 10, 18

Serial No. (see reverse side) U.S. * *



A. E. A. TUNE-UP SYSTEM


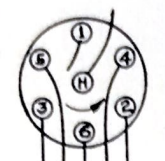
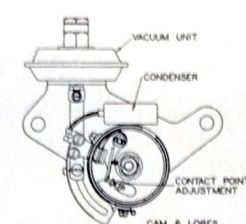
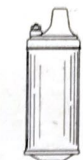
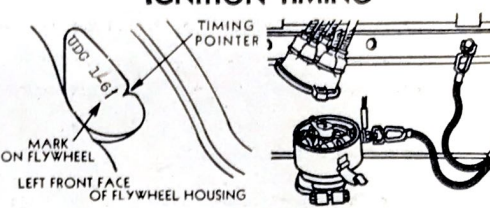


Standards of Adjustment Automotive Electric Association

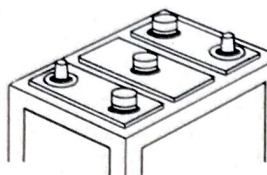
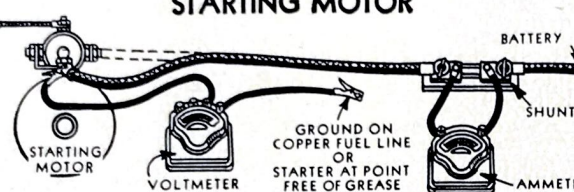
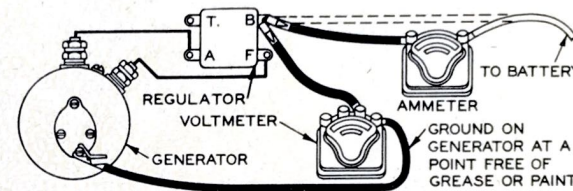
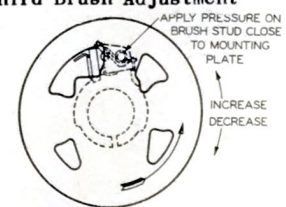
Issued November 1941

Form No. HU-31

IGNITION

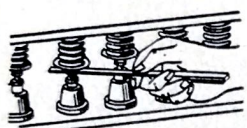
<h4>SPARK PLUGS</h4>  <p>USE ROUND GAUGE</p> <p>Size 14mm. Gap .032"</p> <p>Original Equipment Champion Type J-9</p> <p>For Cooler or Hotter Type See Manufacturer's Chart *</p>	<h4>DISTRIBUTOR</h4>  <p>Auto-Lite No. IGW-4203A</p> <p>Firing Order 1-5-3 6-2-4</p>	<h4>Breaker-Arm Spring</h4>  <p>VACUUM UNIT CONDENSER CONTACT POINT ADJUSTMENT CAM 8 LOBES</p> <p>Breaker Contact Gap - .020" Condenser - Part No. IGW-3075C Rotation - Counterclockwise (viewed from top of distributor) Adjustment - Loosen screw connecting vacuum linkage to base Vacuum Control - No. VC-3060ES. 5.75" - 7.75" hg. to start plunger travel; 6.5" - 8.5" distributor advance at 10" hg.-max. Automatic Advance - Full Automatic - Start 0° at 400 R.P.M.; Intermediate 7° at 1100 R.P.M.; Maximum 11.8° at 1570 R.P.M. (Distributor degrees at distributor R.P.M.)</p>	<h4>COIL</h4>  <p>Auto-Lite No. IG-4098</p> <p>Servicing Coil No. IG-4098</p>	<h4>IGNITION TIMING</h4>  <p>MARK ON FLYWHEEL LEFT FRONT FACE OF FLYWHEEL HOUSING</p> <p>Use Timing Light - Breaker contacts to open for No. 1 cylinder when mark "UDC 1-6" on flywheel is 1/2" ahead of pointer on the inspection hole. (see reverse side) 3*</p>
--	---	---	--	---

STARTING & LIGHTING

<h4>BATTERY</h4>  <p>NATIONAL - Type HT-17 Capacity - 96 Amp. Hour (20 hr. rate) Location - On left side of engine compartment. Ground - Positive terminal grounded.</p>	<h4>STARTING MOTOR</h4>  <p>AUTO-LITE No. MZ-4092</p> <p>Drive - L.H. Inboard Bendix - No. EBA-29 Free Running Speed - 4300 Min. R.P.M. 70 Max. Amps. 5.5 Volts Lock Torque (Stalled) - 11.8 Ft. Lbs. 560 Amps. 4.0 Volts Control - Solenoid Switch No. SS-4001</p>	<h4>GENERATOR</h4>  <p>AUTO-LITE No. GDS-4801A</p> <p>Maximum Output Safe Setting: Cold - 32-34 Amps. 8.0 Volts Regulator No. VRR-4001A (see reverse side) 4* Cut-Out Relay - (combined with regulator) Brush Spring Tension - 53 oz. maximum with new brushes</p> <div data-bbox="1624 620 1962 1037"> <h4>Third Brush Adjustment</h4>  <p>APPLY PRESSURE ON BRUSH STUD CLOSE TO MOUNTING PLATE INCREASE DECREASE COMMUTATOR END</p> <p>Rotation - Clockwise (viewing drive end) Regulation - Third Brush and Vibrating Voltage Regulator</p> </div>
--	--	---

VALVES

CLEARANCE



USE NEW FEELER STOCK FOR EACH JOB

Engine Warm

Up to car No. 106848
Intake - .006"
Exhaust - .006"

After car No. 106848
Intake - .010"
Exhaust - .012"

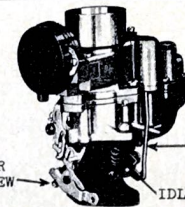
With engine oil and coolant at normal operating temperatures *

TIMING

Previous to car No. 106848, intake valves open 10-2/3° before top dead center. After car No. 106848, inlet valves open 28-1/2° before top dead center.

Tapet Lash for timing: .010" (Cold)

CARBURETION



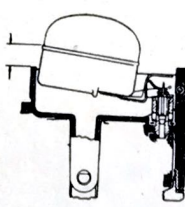
THROTTLE LEVER
ADJUSTING SCREW
THROTTLE CONNECTOR ROD
IDLE ADJUSTING SCREW

Casting No. 298 on Face of Flange

CARTER - Model 454S 5* TYPE - 1-1/4" Single Downdraft
Idle Adjustment - 3/4 to 1-1/2 turns open. Idle at 7-1/2 M.P.H. or 350 R.P.M. To make richer, turn screw out. 6*
Fixed Jets - Metering Rod - Standard Part No. 75-407
Metering Rod - 1 Size Lean Part No. 75-410
Metering Rod - 2 Sizes Lean Part No. 75-411
Metering Rod - 3 Sizes Lean Part No. 75-412
Metering Rod Jet Assembly Part No. 120-175

Accelerating Pump - (see reverse side) 7*
Metering Rod Adjustment - (see reverse side) 8*
Manifold Heat Control - (see reverse side) 9*

FUEL LEVEL



Float Level - 3/8" remove cork gasket. Measure from float (at free end) to float chamber cover when needle is seated.

ADDITIONAL SPECIFICATIONS

Cooling System -
Capacity - 13 Qts. (U.S. Meas.)
Radiator Gravity Flow - Service
21 Gals. Per Min. (U.S. Meas.)
Thermostat - In cylinder head water outlet Starts to open at 150° - 155° F. Fully open at 185° F.
Temperature Gauge - King-Sealey Dash Unit No. 8310 Motor Unit No. 7000

Crankcase - Capacity 4-1/2 Qts. refill (U.S.)
Fuel Pump - (Model 10) AC Type AF No. 1523753
TEST: Using AC Fuel Pump Analyzer No. 1521551 CAPACITY - 1 pint or over in 1 minute PRESSURE - 3-1/2 lbs. maximum (Model 18) AC Type AK No. 1523289
TEST: Using AC Fuel Pump Analyzer No. 1521551 CAPACITY - 1 pint or over in 45 seconds PRESSURE - 4-1/2 lbs. maximum

Air Cleaner - AC Oil-Wetted (with silencer) No. 1528159
(Continued - 10* - see reverse side)

A. E. A. Tune-Up System



Briggs & Stratton

KEY SERIES: H601 - H1100
KEY BLANK PART NO. 42755
LOCK PART NO. 50184



Form No. HU-31

ADDITIONAL DATA

This information applies to the items on reverse side, marked as follows:

* Consult A.E.A. SERVICE MANUAL for more complete information.

* **Serial Number**—On plate on right hand front door hinge pillar.
Series 10 - 10,101 and up (U.S.).
Series 18 - 18,101 and up (U.S.).

Wheelbase—Series 10 - 116".
Series 18 - 128".

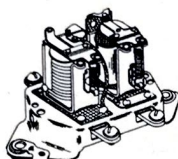
Engine Number—Stamped on top of cylinder block left hand side between No. 1 and No. 2 exhaust manifold flanges. Same as Serial Number.

3 * **Ignition Timing**—When Ethyl or premium gasoline, with an octane rating of 80 or higher, is used or in high altitudes, a more advanced setting may be used. At proper timing under these conditions, a slight "ping" should be noted at between 10 to 15 M.P.H. when accelerating with wide open throttle from 8 M.P.H. However, timing should never be advanced so that pointer is more than 1" ahead of the "UDC 1-6" mark on flywheel.

4 * **Voltage Regulator**—Test meter connections: Disconnect the wire from the "B" terminal on the regulator and connect the test ammeter in series between the terminal and the wire removed from the terminal. Connect the test voltmeter from the regulator "B" terminal to the regulator base.

Before test: Run the engine before taking any test readings at a speed equivalent to 30 M.P.H. for several minutes until the voltage remains constant and the charging rate has dropped back from its peak. Have regulator cover on the unit while balancing voltage and taking test readings.

Test figures: Circuit breaker closes at 6.4 to 7.0 volts; opens at 2.0 to 6.0 amperes discharge. Voltage regulator operates at 7.1 to 7.4 volts at 110° F.



5 * **Carburetor**—Carter 501S used on cars with optional 3"x5" engine. (see opposite column for specifications)

6 * **Fast Idle Adjustment**—With fast idle cam held in normal idle position, tighten throttle lever adjusting screw until it just seats against cam. Hold throttle lever closed and pull cam back until first (or lower) step on cam is against (not on) set screw. There should now be 5/8" clearance between inside wall of air horn and lower edge of choke valve. (Use tool T109-85.) Adjustment can be made by bending at offset portion of fast idle link. (Use tool T109-41.)

7 * **Accelerating Pump**—Set to longest stroke for cold weather, center hole for moderate weather, short stroke for hot weather.

Pump Adjustment—With throttle valve seated and connector link in place (short stroke: hole nearest countershaft), pump plunger should travel 3/16" from closed to wide open position. Adjustment should be made by bending throttle connector rod at lower angle. Pump travel can be measured by using universal pump stroke gauge T109-117S by placing base of gauge on ridged portion of bowl cover so that projecting portion of pump gauge rests on top surface of connector link at pump shaft. Hold gauge vertical. The difference between the number shown by index mark on gauge, at wide open and closed positions, should be 12.

8 * **Metering Rod Adjustment**—Correct setting of metering rod is important and must be made after pump adjustment. Insert gauge (tool T109-102) in place of metering rod, seating tapered end in metering rod jet. Hold gauge vertical to insure seating. With throttle valve seated, press down lightly on piston link directly over piston. There should be less than .005" clearance between metering rod pin and shoulder in notch of gauge. Gauge must not drag on pin. Adjustment can be made by bending lip on piston link so that it contacts pump arm. (Use tool T109-105.) Remove gauge and install metering rod and disk. Connect metering rod and spring.

9 * **Manifold Heat Control**—For normal operation, set at "W" position.

10 * **Gasoline Gauge**—King-Seeley
Dash Unit No. 8305
Tank Unit No. 7550

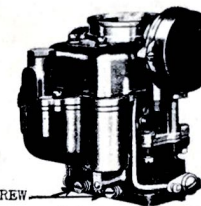
Speedometer—Stewart-Warner No. 587-G
Inner Core (Series 10) No. 96926 - 65-13/16" (Standard), 71-13/16" (Overdrive)
Inner Core (Series 18) No. 96926 - 87-13/16"

Windshield Wiper—Trico
Service Motor No. SSM-103

Recommended Tire Pressure—
16" x 5.50" - Front and Rear - 32 lbs. cold, 35 lbs. hot
16" x 6.00" - Front - 26 lbs. cold - 29 lbs. hot
Rear - 30 lbs. cold - 33 lbs. hot

Battery Cables and Wiring—Battery to Ground Cable - Length 7"; Gauge No. 1.
Battery to Switch Cable - Length 33"; Gauge No. 0.

CARBURETOR



IDLE ADJUSTMENT SCREW
Casting No. 286
on Face of Flange

CARTER-501S

(used on 3"x5" engines)

Idle Adjustment—1/2 to 1-1/2 turns open. Idle at 7-1/2 M.P.H. To make richer, turn screw out.

Fast Idle Adjustment—With choker valve tightly closed and a fast idle screw on upper step of fast idle cam, adjust screw to give .045" opening between edge of throttle valve and bore of carburetor side opposite port.

Fixed Jets—Metering Rod - Standard Part No. 75-467
Metering Rod - 1 Size Lean Part No. 75-474
Metering Rod - 2 Sizes Lean Part No. 75-475
Metering Rod Jet Assembly Part No. 120-65S

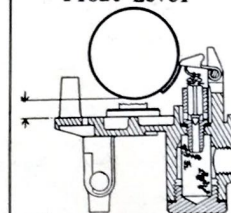
Pump Adjustment—With pump connector link in long stroke (outer) hole in pump arm, and a throttle adjustment screw backed out, pump plunger should travel 9/32" from closed to wide open position. Adjustment can be made by bending throttle connector rod at lower angle. (Use tool T109-75.) Pump travel can be measured by using gauge T109-117S. Difference between reading at wide open and seated throttle should be 18. Projecting portion of indicator should be placed on top surface of lower portion of connector link at pump shaft.

Metering Rod Adjustment

- (1) Insert one metering rod gauge T109-113 in place of metering rods. Be sure gauge seats in metering rod jet after backing out throttle lever adjusting screw, so that throttle valves seat.
- (2) Install metering rod pin and pin spring in metering rod arm.
- (3) Press lightly on vacuum piston link until piston rests in bottom of cylinder. There may be less than .005" clearance between metering rod pin and gauge.
- (4) With throttle valve seated, bend lip on anti-percolator arm until this clearance is obtained (between metering rod gauge and metering rod pin).
- (5) Remove gauge and metering rod pin, and install metering rods, discs, spring, pin and pin spring and hook metering rod spring on metering rods.

Climatic Control Adjustment—For average driving and climatic conditions, center index mark on coil housing should be set one point lean.

Float Level



Float Level—Distance from float to bowl cover, when needle is seated, to be 1/8".

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.

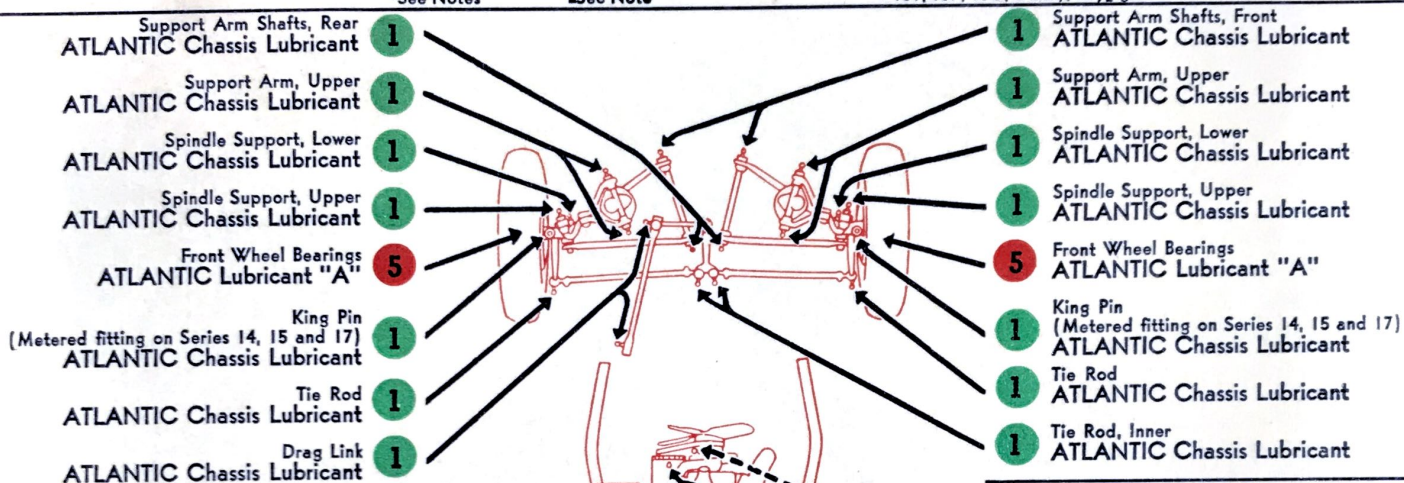
HUDSON 6, 8-1941

(Passenger Cars, Business Cars)

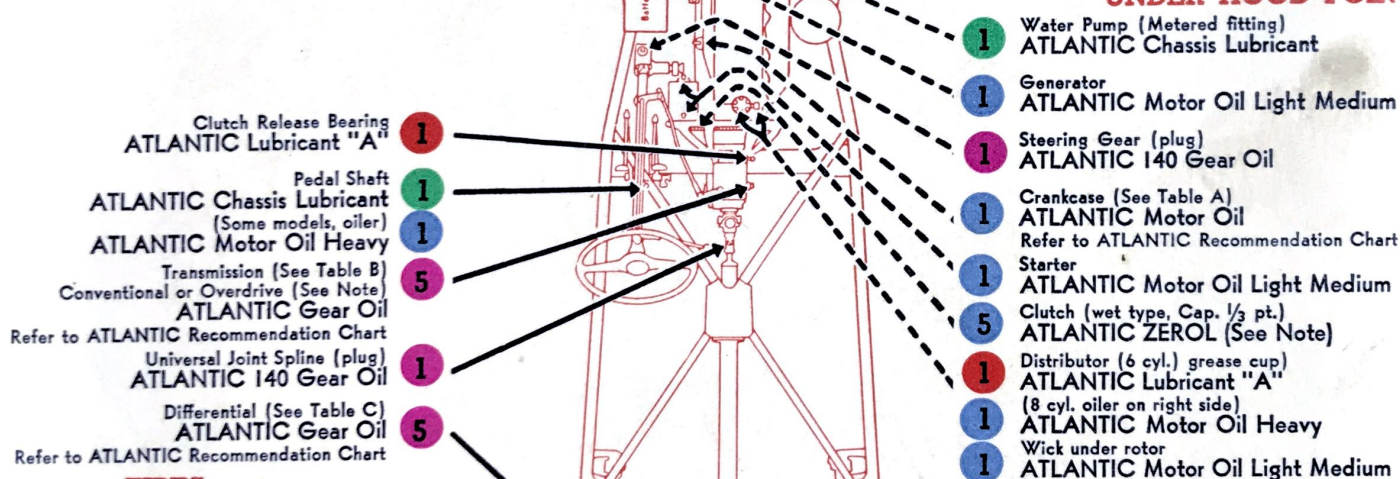
43 LUBRICATION POINTS 5 ATLANTIC LUBRICANTS

(Spiral Bevel Rear Axle—Roller Bearing Universals—Threaded Shackles—Independently Sprung Front Wheels—Wet Type Clutch—Transmission Overdrive optional)

CAPACITIES:	Crankcase (A)	Transmission (B)	Differential (C)	Cooling System	Gas Tank	Battery		
						No. Plates	Amp. Hrs.	Term. Grounded
6 Cyl.	4 1/2 qt.	*2 pt. or lb.	*2 3/4 pt. or lb.	13 qt.	♦16 1/2 gal.	17	96	Positive
8 Cyl.	7 qt.	*2 pt. or lb.	*2 3/4 pt. or lb.	18 qt.	♦16 1/2 gal.	19	108	Positive
		*See Notes	*See Note		♦10T, 10P, 10C, Utility, 12 1/2 gal.			



UNDER HOOD POINTS



TIRES

Size	Inflation Pressures	
	Front	Rear
Passenger Cars		
5.50-16	32	32
6.00-16		
6.25-16		
6.50-16	26	30
7.00-15		
Business Cars		
6.00-16	(4 ply) 26	30
6.50-16	(6 ply) 26	40
7.00-15		

MILEAGE LEGEND

- 1 = every 1000 miles
- 5 = every 5000 miles
- 10 = every 10000 miles
- 20 = every 20000 miles



NOTES

STARTING SERIAL No. Traveler, DeLuxe, Business Cars (10)—10101; Super 6 (11)—11101; Commodore 6 (12)—12101; Commodore 8 (14)—14101; Commodore 8 Custom Coupe (15)—15101; Commodore 8 Custom Sedan (17)—17101; 6 Big Boy Business Cars (18)—18101. On right front door hinge pillar post.

SHOCK ABSORBERS—Delco or Monroe, telescoping type. See General Instructions. If service is required, refer to car dealer.

SPRINGS—Fitted with fabric covers. Remove covers and repack with ATLANTIC CHASSIS LUBRICANT.

AIR CLEANERS—AC wire gauze, AC heavy duty (special).

Copyright 1940, THE CHEK-CHART CORPORATION, Chicago. All trade-names and material descriptive of products of THE ATLANTIC REFINING COMPANY are the sole property of that company. Printed in U.S.A.

ATLANTIC MOTOR OIL EXTRA HEAVY above 32 deg., ATLANTIC MOTOR OIL LIGHT MEDIUM below 32 deg. See General Instructions.

TRANSMISSION AND DIFFERENTIAL—When checking oil level, allow car to stand long enough to permit the lubricant to reach its actual level before checking.

TRANSMISSION WITH OVERDRIVE—Capacity 3/4 pt. or lb. Two drain plugs and two filler plugs. Drain through both drain plugs. Fill overdrive unit with 1 1/4 pt. or lb. and transmission unit with 2 pt. or lb.

UNIVERSAL JOINTS—Packed at assembly. Disassemble, clean and relubricate with ATLANTIC CHASSIS LUBRICANT. See General Instructions.

5 PARKING BRAKE CABLES—ATLANTIC CHASSIS LUBRICANT. Partial disassembly necessary.

5 AUTOMATIC VACUUM CLUTCH CONTROL—If so equipped, remove plug at rear of cylinder and inject 1 oz. ATLANTIC ZEROL.

CLUTCH (Wet Type)—Plug in flywheel reached through opening between engine and starter.

OIL CAN POINTS—Under Hood—Throttle Linkage, etc., ATLANTIC MOTOR OIL LIGHT MEDIUM. DO NOT OIL AUTOMATIC CHOKE LINKAGE.

POINTS REQUIRING NO LUBRICATION—Fan, Rear Spring Front Bolts, Intermediate Steering Arm.

Prices in effect Sept. 22, 1940. Subject to change without notice.
Nothing is to be added to these prices for Federal Tax.

1941 HUDSON PRICES and EQUIPMENT

Body Type	Factory Delivered Price	Groups A & B	Detroit Delivered Inc. Grps. A & B	Transportation Charge	Local Delivered Price	License and Local Tax	Weight
(10-T) HUDSON SIX TRAVELER—116' W.B.—92 H.P.—Tires, 16 x 5.50							
2-Dr. Touring Sedan	\$765	\$18	\$783				2850
4-Dr. Touring Sedan	793	18	811				2900
3-Pass. Coupe	695	18	713				2790
Club Coupe	788	18	806				2840
(10-P) HUDSON SIX DE LUXE—116' W.B.—92 H.P.—Tires, 16x6.00							
2-Dr. Touring Sedan	\$822	\$20	\$842				2900
4-Dr. Touring Sedan	856	20	876				2950
3-Pass. Coupe	801	20	821				2840
Club Coupe	848	20	868				2895
Convertible	1063	20	1083				2980
(11) HUDSON SUPER SIX—121' W.B.—102 H.P.—Tires, 16 x 6.00							
2-Dr. Touring Sedan	\$901	\$20	\$921				3000
4-Dr. Touring Sedan	932	20	952				3050
3-Pass. Coupe	881	20	901				2935
Club Coupe	936	20	956				2980
Convertible	1155	20	1175				3125
Station Wagon							
(12) HUDSON COMMODORE SIX—121' W.B.—102 H.P.—Tires, 16 x 6.25							
2-Dr. Touring Sedan	\$966	\$46	\$1012				3050
4-Dr. Touring Sedan	994	46	1040				3100
3-Pass. Coupe	935	46	981				3000
Club Coupe	997	46	1043				3045
Convertible	1204	43	1247				3160
(14) HUDSON COMMODORE EIGHT—121' W.B.—128 H.P.—Tires, 16 x 6.25							
2-Dr. Touring Sedan	\$1003	\$46	\$1049				3210
4-Dr. Touring Sedan	1039	46	1085				3260
3-Pass. Coupe	978	46	1024				3135
Club Coupe	1040	46	1086				3210
Convertible	1254	43	1297				3350
(15) HUDSON COMMODORE CUSTOM EIGHT—121' W.B.—128 H.P.—Tires, 16 x 6.50							
3-Pass. Coupe	\$1064	\$46	\$1110				3185
Club Coupe	1127	46	1173				3235
(17) HUDSON COMMODORE CUSTOM EIGHT—128' W.B.—128 H.P.—Tires, 16 x 6.50							
4-Dr. Touring Sedan	\$1232	\$46	\$1278				3400
8-Pass. Sedan	1438.50	32.50	1471				
(10) HUDSON BUSINESS CARS—116' W.B.—92 H.P.—Tires, 16 x 6.00*							
Cab and Chassis	\$687	\$9	\$696				
Cab Pick-Up	723	9	732				2910
Utility Coach	781	18	799				2825
Utility Coupe	721	18	739				2900
All-Purpose Delivery	1117	9	1126				3150
(18) HUDSON BIG BOY PASSENGER CARS—128' W.B.—98 H.P.—Tires, 16 x 6.00							
8-Pass. Sedan	1154	18	1172				
Carry-All	1025	18	1043				
(18) HUDSON BIG BOY BUSINESS CARS—128' W.B.—98 H.P.—Tires, 16 x 6.00							
Cab and Chassis	\$736	\$9	\$745				
Cab Pick-Up	775	9	784				3050

*Tires: 16 x 5.50 on Utility Coach and Coupe.
16 x 6.00 6-ply on All-Purpose Delivery.

FACTORY TOWN DELIVERED PRICES INCLUDE THE ITEMS MARKED "X" AS STANDARD EQUIPMENT

EQUIPMENT	11-T and Utilities	10-P	11	12 & 14	15 & 17	10 & 18 Cab Pk.	18 Carry- All	18 8-P Sedan	10 All-Purpose Delivery
Remote Control Gear Shift.....	x	x	x	x	x	x	x	x	x
Auto-Poise Control.....	x	x	x	x	x	x	x	x	x
Airfoam Seats.....	x	x	x	x	x	x	x	Fr.-x	x
Safety Glass.....	x	x	x	x	x	x	x	x	x
Dual Carburetion.....	x	x	x	x	x	x	x	x	x
Automatic Choke and Heat Control..	x	x	x	x	x	x	x	x	x
Auto. Choke Manual Heat Control..	x	x	x	x	x	x	x	x	x
Ventilator Wings.....	x	x	x	x	x	x	x	x	x
Extra Air Horn.....	Grp. A	Grp. A	Grp. A	x	x	Grp. A	Grp. A	Grp. A	Grp. A
Extra Tail Light.....	Grp. B	Grp. B	Grp. B	x	x	Grp. A	Grp. B	Grp. B	Grp. A
Extra Windshield Wiper.....	Grp. B	Grp. B	Grp. B	x	x	Grp. A	Grp. B	Grp. B	Grp. A
Chrome Outside Window Mouldings..	x	x	x	x	x	x	x	x	x
Sun Visor—Convertibles.....	1-x	2-x	2-x	2-x	1-x	1-x	1-x	1-x	1-x
Others.....	1-x	1-x	1-x	{ 1-Grp. A	{ 1-Grp. A	1-x	1-x	1-x	1-x
Voltage Regulator.....	x	x	x	x	x	x	x	x	x
Radiator Thermostat.....	x	x	x	x	x	x	x	x	x
Spring Covers.....	Grp. A	x	x	x	x	Grp. A	Grp. A	Grp. A	Grp. A
Bumpers—Front.....	x	x	x	x	x	x	x	x	x
Rear.....	x	x	x	x	x	x	x	x	x
Grille Guard.....	x	x	x	x	x	x	x	x	x
Bumper Guards—Front.....	Grp. B	x	x	x	x	Grp. A	Grp. B	Grp. B	Grp. A
Rear.....	Grp. B	x	x	x	x	Grp. A	Grp. B	Grp. B	Grp. A
Bumper Wings.....	x	x	x	x	x	x	x	x	x
Fenders in Body Color.....	x	x	x	x	x	x	x	x	x
Extra Wheel.....	x	x	x	x	x	x	x	x	x
Spare Tire and Tube.....	x	x	x	x	x	x	x	x	x
Luggage Compartment Light.....	x	x	x	x	x	x	x	x	x
Bonnet Ornament Lights.....	x	x	x	x	x	x	x	x	x
Headlight Indicator.....	x	x	x	x	x	x	x	x	x
Vacuum Drive.....	x	x	x	x	x	x	x	x	x
Instrument Light Dimmer.....	x	x	x	x	x	x	x	x	x
Ash Trays—Front.....	1-x	1-x	1-x	1-x	1-x	1-x	1-x	1-x	1-x
Rear.....	2-x*	2-x*	2-x*	2-x*	2-x*	2-x*	2-x*	2-x*	2-x*
Package Compartment Lock.....	x	x	x	x	x	x	x	x	x
Large Hub Caps.....	x	x	x	x	x	x	x	x	x
Front Door Arm Rests.....	x	x	x	x	x	x	x	x	x
Assist Straps—	x	x	x	x	x	x	x	x	x
2-Dr. Touring Sedan & Club Cpe..	1-x	1-x	1-x	1-x	1-x	1-x	1-x	1-x	1-x
4-Dr. Touring Sedan.....	2-x	2-x	2-x	2-x	2-x	2-x	2-x	2-x	2-x
Cigar Lighters.....	x	x	x	x	x	x	x	x	x
Arm Rest—Rear Center.....	x	x	x	x	x	x	x	x	x
Direction Indicator.....	x	x	x	x	x	x	x	x	x
Arm Rest—Front Seat Center.....	x	x	x	x	x	x	x	x	x
Fender Lamps.....	x	x	x	x	x	x	x	x	x
Radiator Ornament.....	x	x	x	x	x	x	x	x	x
Gravel Deflector.....	Grp. B	Grp. B	Grp. B	x	x	Grp. B	Grp. B	Grp. B	Grp. B
Rear Lateral Sway Eliminator.....	x	x	x	x	x	x	x	x	x
Dome Lamp—Front.....	x	x*	x*	x*	x*	x	x	x	x
Rear—Sedans Only.....	x	x	x	x	x	x	x	x	x
Independent Suspension.....	x	x	x	x	x	x	x	x	x
Clock (Wind).....	Grp. A	Grp. A	Grp. A	Grp. A	Grp. A	Grp. A	Grp. A	Grp. A	Grp. A
Clock (Electric).....	x	x	x	x	x	x	x	x	x
De Luxe Steering Wheel.....	x	x	x	x	x	x	x	x	x
De Luxe Running Boards.....	x	x	x	x	x	x	x	x	x
Chrome Wheel Rings.....	x	x	x	x	x	x	x	x	x
Group A Price.....	\$9.50	\$13.50	\$13.50	\$30.00*	\$30.00**	\$9.00	\$9.50	8.50	\$9.00
Group B Price.....	8.50	6.50	6.50	16.00	16.00	8.50	8.50	8.50	8.50
Group A Price—8-Pass. Sedans and Convertibles.....		13.50	13.50	27.00	16.50				

†6-Passenger Sedans only.
*Except Convertibles.

**Except 8-Passenger Sedans.
†Swivel Type.

COLOR OPTIONS (All Models)

Standard		Extra Cost	
K—Black	H—Hollywood Tan	NH—Newport Tan—lower	} * \$12.50
G—Gunmetal	B—Baronet Blue	Hollywood Tan—upper	
P—Pine Green	S—Silver Green#	QR—Quaker Gray—lower	} * 12.50
N—Newport Tan	J—Jewel Blue#	Richmond Gray—upper	
Q—Quaker Gray	M—Maroon#		
	R—Richmond Gray#		
*Note—Standard on Models 15 and 17. All-Purpose Delivery in Prime Only. All colors except black are opalescent. Delivered prices include fenders in color to match body.		PS—Pine Green—lower	} * 12.50
#Extra cost on Cab and Cab Pick-Up \$10.00 list.		Silver Green—upper	
†N. A. on Business Cars except Utilities.		BR—Baronet Blue—lower	} * 12.50
		Richmond Gray—upper	
		CC—Crystal Bronze	10.00
		RR—Regal Red	10.00

UPHOLSTERY (All Models except Convertibles)

Model	Material	Color	Option	Standard with Body Colors
Six Traveler	Boucle	Tan	All	
Six De Luxe	Broadcloth	Tan	W 3	K-P-N-H-S-M-CC-RR-NH-PS
		Gray	W 4	K-G-Q-B-J-R-QR-BR
Super Six	Hockanum Tweed Cloth	Tan	W 3	K-N-H-M-CC-RR-NH
Commodore Six and Eight	Hockanum Twill Cord	Gray	W 4	K-G-Q-B-J-R-QR-BR
Commodore Custom Six and Eight*	Hockanum Bedford Cord	Green	W 5	K-P-S-PS
Business Cars and Carry All	Imitation Leather	Brown	All	
*8-Pass. Sedans (Models 17 and 18)	Bedford Cord	Gray	All	
Mohair—"W 1"—optional at no charge on Models 10P and 11 except Convertible, Cab Pickup, Delivery Car, and Carry All; and on Model 10T at extra charge of: Sedans and Utility Coach \$9.50, 13-Pass. Coupe and Utility Coupe \$5.75, Club Coupe \$7.00. Mohair not supplied on Models 12, 14, 15 and 17. Leather front seat optional in 8-Pass. Sedans at no extra charge.				

LEATHER

CONVERTIBLES:

Six De Luxe Light tan deep-buffed leather (AA-1) is standard. Hand-buffed leather choice of four colors \$25.00 extra, list. (Specify AA-2, 3, 4 or 5. See below.)*

Other Models Hand-buffed leather is standard in choice of four colors AA 2, 3, 4 or 5. See below.*

CLOSED BODY TYPES:

MODEL	2 and 4 Dr. Sedans	8-Pass. Sedan	3-Pass. Coupe	Club Coupe	Leather Option
Six Traveler	\$21.00		\$15.00	\$19.00	AA-1 Only
Big Boy					AA-1 Only
Six De Luxe	37.50		26.50	33.00	AA-2, 3, 4 or 5. See below.*
Super Six	37.50		26.50	33.00	
Commodore 6 & 8	33.50		25.50	32.00	
Commodore Custom 8	33.50		25.50	32.00	

*If color number is not specified leather will be supplied to harmonize with body color, as follows:

- *AA-1—Light tan deep-buffed leather with all body colors
- AA-2—Maroon hand-buffed leather with M-RR-CC
- AA-3—Tan hand-buffed leather with N-H-NH
- AA-4—Gray hand-buffed leather with G-Q-B-J-R-QR-BR
- AA-5—Green hand-buffed leather with K-P-S-PS

CONVERTIBLE TOP MATERIAL

Body Color	Standard Top Material	Optional Top Material	Price
K-G-Q-B-J-M-R-RR	Black	Tan (Specify Tan Top)	N.C.
P-N-H-S-CC	Tan	Black (Specify "YY")	N.C.
	Special Top Material		
N-H-CC-M-RR-K	Red Tan		\$40.00 list
G-Q-R-B-J-K	Blue Gray		
P-S-K	Sage Green		

PRICES OF FACTORY INSTALLED OPTIONAL EQUIPMENT

Option	ITEM	10 and 18 Business	18 Pass.	10-T Six Traveler	10-P Six De Luxe	11 Super Six	12 and 14 Commodore Six and Eight	15 and 17 Commodore Custom Eight
TIRE OPTIONS								
WW	Standard Size—White Sidewall	\$ 9.5	\$ 9.57	\$ 8.50	\$ 9.57	\$ 9.57	\$10.93	\$11.79
TT	Standard Size—6-Ply Heavy Duty (N.A. with WW)	19.2	19.21	17.00	19.21	19.21	21.93	23.29
EE	16 x 6.00—4-Ply	Std.	Std.	15.21	Std.	Std.	N.A.	N.A.
EEWW	16 x 6.00—White Sidewall			24.79				
EETT	16 x 6.00—6-Ply			34.43				
EE	16 x 6.50—4-Ply	19.7	19.71	N.A.	19.71	19.71	10.14	Std.
EEWW	16 x 6.50—White Sidewall	31.5	31.50	N.A.	31.50	31.50	21.93	
EETT	16 x 6.50—6-Ply	43.0	43.00	N.A.	43.00	43.00	33.43	
A	15 x 7.00	29.2	29.29	N.A.	N.A.	29.29	19.71	12.50
AWW	15 x 7.00—White Sidewall	42.2	42.21	N.A.	N.A.	42.21	32.64	22.50
ATT	15 x 7.00—6-Ply	55.0	55.07	N.A.	N.A.	55.07	45.50	35.36
RADIOS								
Y	Custom Radio—8 Tube	\$63.50	\$63.50	\$63.50	\$63.50	\$63.50	\$63.50	\$63.50
L	De Luxe Radio—6 Tube	46.50	46.50	46.50	46.50	46.50	46.50	46.50
PP	Vacuum Antenna	6.50	6.50	6.50	6.50	6.50	6.50	6.50
OVERDRIVE AND VACUUMOTIVE DRIVE								
T	Overdrive	\$59.50	\$59.50	\$59.50	\$59.50	\$59.50	\$59.50	\$59.50
C	Vacuumotive Drive	27.50	27.50	27.50	27.50	27.50	27.50	27.50
MISCELLANEOUS								
D	De Luxe Heater and Defroster	\$21.60	\$21.60	\$21.60	\$21.60	\$21.60	\$21.60	\$21.60
E	Fender Lamps	10.90	10.90	10.90	10.90	10.90	Grp. B	Grp. B
O	Oil Bath Air Cleaner	2.25	2.25	2.25	2.25	2.25	2.25	2.25
U	Less Running Boards	N.A.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
V	Extra Visor	2.25	2.25	2.25	2.25	2.25	Grp. A	Grp. A
X	Weathermaster and Defroster	33.50	33.50	33.50	33.50	33.50	33.50	33.50
Z	Chrome Outside Window Mouldings—Sedans	N.A.	N.A.	N.A.	12.50	12.50	Std.	Std.
	—Coupes	N.A.	N.A.	N.A.	7.00	7.00	Std.	Std.
DD	Direction Indicator	18.00	18.00	18.00	18.00	18.00	10.00	Std.
GG	Vacuum Booster Pump	5.00	5.00	5.00	5.00	5.00	5.00	5.00
HH	Model 11 Motor		N.A.				N.A.	N.A.
II	Front Door Ventilator Wing	10.00	10.00	10.00	Std.	Std.	Std.	Std.
KK	De Luxe Steering Wheel	13.50	13.50	13.50	13.50	13.50	Grp. A	Grp. A
MM	Airfoam Seats—Sedans and Club Coupes only†	N.A.	12.00	12.00	12.00	12.00	Std.	Std.
NN	Chrome Wheel Rings	8.75*	8.75	8.75*	8.75	8.75	8.75	Std.
QQ	Special Running Board Mouldings	15.00	15.00	15.00	15.00	15.00	Std.	Std.
UU	Large Hub Caps	6.50	6.50	6.50	6.50	6.50	Std.	Std.
VV	Airfoam Seats—Front only†	N.A.	6.00	6.00	6.00	6.00	Std.	Std.
XX	Electric Clock	9.50	9.50	9.50	9.50	9.50	Grp. A	Grp. A
ZZ	Grained Instrument Panel and Window Mouldings with "W4" or "W5" Trim only—Std. with "W3" Trim	Std.	Std.	Std.	Std.	N.C.	N.C.	N.C.
SPECIAL	ORDER—Two Swivel Visors instead of One Hinge Type	3.50	3.50	3.50	3.50	3.50	1-Std. 1-Grp. A	1-Std. 1-Grp. A
	Twin Air Horns	7.00	7.00	7.00	Grp. A	Grp. A	Std.	Std.
	Right-Hand Front Door Arm Rest	3.00	3.00	3.00	3.00	3.00	3.00	Std.
	Commodore Type Bumpers and Wings	N.A.	N.A.	N.A.	16.00	16.00	Std.	Std.

Key to abbreviations:

‡Model 18 only.

†Standard on Convertibles.

*N.A. on Carry All—Standard in Front Seat Cushion and Front Seat Back in 8-Pass. Sedans.

*With 16 x 6.00 Tires only.

#Except 8-Pass. Sedans.

‡N.A. on Station Wagon.

Std.—Standard Equipment.

N.A.—Not Available.

N.C.—No Charge.

HUDSON 1941

OPERATING INSTRUCTIONS

IMPORTANT

Read Carefully Before Driving Your Car

The instructions given on this card are necessarily brief as it is intended to give only such information as is essential to operating the car. More complete information on this subject can be found by referring to the Owner's Manual.

Be sure Owner's Policy and Ownership Card are filled in by your Hudson Dealer.

Be sure the car battery is registered by your Hudson Dealer.

Be sure the car key numbers are recorded on the Ownership Card and by your Hudson Dealer.

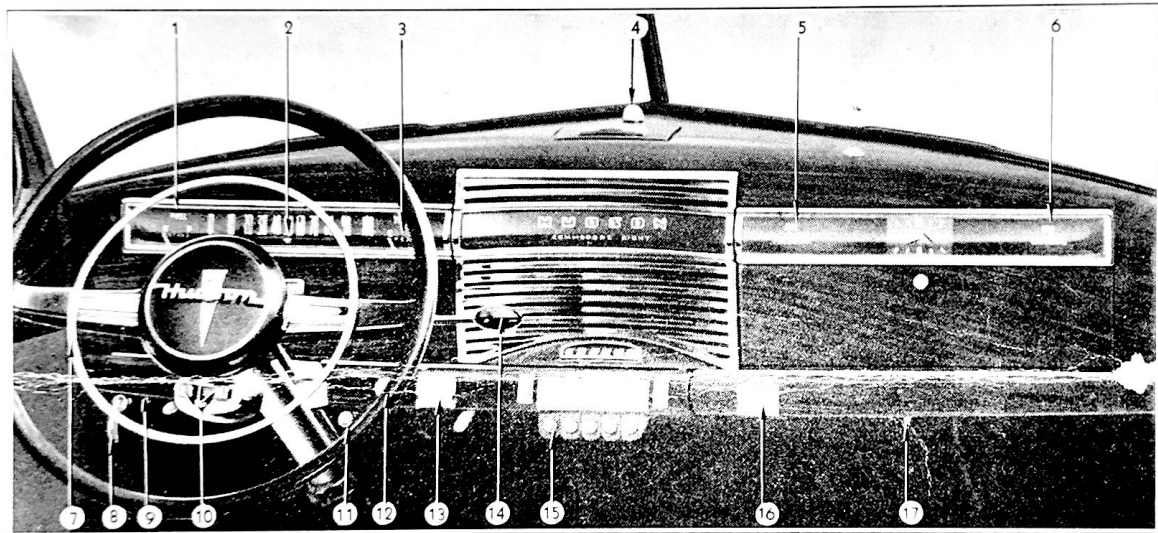
LUBRICATION

The lubricants placed in your car at the time of assembly are of the finest quality procurable and NEED NOT be changed until the recommended change period has been reached.

For complete information on the lubrication of your car please refer to the Owner's Manual.

Caution:—Whenever flushing fluids are used in the engine, be sure the oil reservoir is removed and thoroughly cleaned out before adding new oil.

Be sure to read the Owner's Manual for full information on your new Hudson car.



- | | |
|--|---|
| 1. Fuel Gauge | 9. Rheostat (All Models Except 10, 11, 18) |
| 2. Headlamp Beam Indicator | 10. Direction Indicator (Models 15 and 17) |
| 3. Water Temperature Gauge | 11. Overdrive Control Button (Optional Equipment) |
| 4. Windshield Wiper Control | 12. Ignition Switch |
| 5. Oil Pressure Indicator | 13. Starter Button |
| 6. Generator Charging Indicator | 14. Transmission Control Lever |
| 7. Horn Button Ring (All Models Except 10, 11, 18) | 15. Vacumotive Drive (Optional Equipment) |
| 8. Hand Brake Lever | 16. Lighting Switch |
| | 17. Dome Lamp Switch (Models 12-14-15-17-18 P Sedans) |

SEAT ADJUSTING LEVER—Located on left side of front seat near front corner. Raise lever with finger and slide seat backward or forward for most suitable position and release lever.

ACCELERATOR PEDAL—Controls the throttle opening and engine speed. Never pump the pedal when starting the engine as it will cause engine to flood.

On cars equipped with **OVERDRIVE** and with the control button pushed in, momentarily release the accelerator pedal when a speed of approximately 22 miles per hour in high gear has been reached to engage overdrive. To disengage **OVERDRIVE** for passing other cars, depress accelerator pedal to full extent of its travel. To re-engage **OVERDRIVE**, release accelerator pedal momentarily as before.

BRAKE PEDAL—Hydraulically operates brakes on all wheels. In event of disablement of the hydraulic system, continued pressure on the same pedal automatically applies the mechanical brake system on rear wheels.

CLUTCH PEDAL—Should be depressed fully to floor board when starting the engine and when shifting gears. When car is equipped with Vacumotive Drive clutch pedal need be depressed only when starting the engine.

DIRECTION INDICATOR (Models 15 and 17)—Push "R" button for right turn and "L" button for left turn. Push center button to turn off signal.

DOMELAMP SWITCH (on instrument panel Models 12-14-15-17-18 P Sedans)—is of the sliding type.

FUEL GAUGE—Indicates the fuel level only when ignition is turned on. When pointer reaches empty mark approximately 2 gallons of fuel remains in reserve.

GENERATOR CHARGING INDICATOR—Shows red when ignition is turned on and engine is idling at low speed. Should go out as speed is increased.

HAND BRAKE LEVER—Apply by pulling straight back *and at same time depress brake pedal*. Release lever by turning $\frac{1}{4}$ turn to right and push it downward as far as it will go.

HEADLAMP BEAM INDICATOR—Shows red when headlamp beam is in country (upper) position.

HEADLAMP FOOT SWITCH—On toe board to left of clutch pedal. Press down with left foot if headlamp beam indicator is red when approaching on-coming traffic and release. Pressing switch second time restores driving headlamp beam.

HORN BUTTON RING (All Models except 10, 11, 18)—Press down from any position to operate horns.

IGNITION SWITCH—Insert key and turn to right to turn "on" ignition.

LIGHTING SWITCH—With lights out pressing button once turns on instrument lights, parking lamps and tail lamps. Pressing button the second time turns on headlamps in addition to other lamps previously lighted and pressing the button the third time turns off all lights.

OIL PRESSURE INDICATOR—Shows red when ignition is turned on and engine is not running. Light should go out when engine is started.

OVERDRIVE CONTROL BUTTON (Optional Equipment)—Must be pushed in to operate in overdrive. This can be done at any speed. Pull out to disengage overdrive and at same time depress clutch pedal momentarily. This may be done at any speed up to 60 miles per hour.

RHEOSTAT (All Models Except 10, 11, 18)—Controls brilliancy of instrument lights. Turning knob to right decreases light. Turning knob to left increases brilliancy and extreme left position turns out instrument lights.

STARTER BUTTON—Press in to close switch. Do not press button while engine is running or car is in gear. Button will not operate starter until ignition is turned on.

TRANSMISSION CONTROL LEVER (Handy Shift)—Place in neutral before starting engine. Raise knob and move forward for reverse and move rearward for low gear. Move to neutral, depress and slide forward for second gear and move rearward for high gear.

VACUMOTIVE DRIVE (Optional Equipment)—Push knob in for automatic control and pull out for manual clutch operation.

WATER TEMPERATURE GAUGE—Indicates temperature of cooling fluid when ignition is turned on. Pointer returns to "H" position at right side of dial when ignition is turned off.

WINDSHIELD WIPER CONTROL—Turn to left to operate wipers.

To Start Engine

1. Place transmission control lever in neutral position.
2. Depress clutch pedal.
3. Turn on ignition switch.
4. If engine is completely COLD, depress accelerator pedal at least half way and release *slowly*. Then press starter button. After engine has started depress accelerator pedal slightly and release it to reduce engine speed.
5. If engine is WARM, depress the accelerator pedal one-quarter to one-half way and hold in this position while cranking.

To Start Car

After engine has been started and clutch pedal is depressed—

1. Raise transmission control lever and move rearward for low gear position; release and depress clutch pedal alternately, moving transmission control lever into intermediate and high gear positions. For reverse gear raise lever from neutral and slide forward. When car is equipped with Vacumotive Drive it is not necessary to use clutch pedal—merely release accelerator pedal momentarily as gears are shifted and depress for normal operation.

Door Locks

To lock doors from inside raise knob projecting from lower window finish moulding.

Right hand front door can be locked from inside by raising knob in window finish moulding, or from outside by turning safety lock key one-quarter turn clockwise and back to starting position.

To unlock safety lock turn key one-quarter turn counter-clockwise and back to starting position.

HUDSON

Models 10, "Traveler", "DeLuxe" and "Business", 6 cyls., (1941)

Automatic Advance—11-3/4 degrees (Distributor).

Eng. R.P.M.	Dist. R.P.M.	Degrees Advance (Dist.)
800.	400.	Start
1000.	500.	1
1200.	600.	2
1400.	700.	3
1600.	800.	4
1800.	900.	5
2000.	1000.	6
2200.	1100.	7
2400.	1200.	8
2600.	1300.	9
2800.	1400.	10
3000.	1500.	11
3150. (Max.)	1575.	11-3/4

Breaker Plate—Auto-Lite, IGW-2010.

Condenser—Auto-Lite, IGW-3075-C.

Contact Point—Auto-Lite, IGP-33.

Breaker Lever and Point—Auto-Lite, IGW-3028-L.

Rotor—Auto-Lite, IGB-1239.

Distributor Cap—Auto-Lite, IGB-1240.

Flexible Lead (Ground)—Auto-Lite, DG-107.

Ignition Coil—Auto-Lite, IG-4098.

Ignition Switch and Cable—(Not Auto-Lite.)

GENERATOR

Rotation, L. H., Com. End
Auto-Lite, GDS-4801-A

NOTE:—This is an especially designed third brush current control generator, to be operated in conjunction with a vibrating-point voltage regulator. The following performance readings were taken with the generator field terminal grounded to the generator frame, and the voltage regulator inoperative.

Performance Data—Gen. cold.

Amps.	R. P. M.	Volts
0	850	6.30
2	880	6.45
4	910	6.60
6	942	6.75
8	980	6.90
10	1030	7.05
12	1080	7.20
14	1140	7.35
16	1200	7.50
18	1265	7.75
20	1360	7.80
22	1450	7.90
24	1550	8.08
26	1670	8.20
28	1830	8.35
29	1950	8.43
30	2200	8.50

Motoring Freely—5.1 to 5.45 amps. at 6 volts.

Max. Stall Current—29 to 32 amps. at 5.1 volts.

Field Test—1.65 to 1.82 amps. at 6 volts.

Brush Spring Tension—53 ounces max. on each (new brushes).

Brush spring tension should be measured by a scale hooked in hole at end of brush arm, and the pull exerted at right angles to force exerted by brush spring.

Armature—Auto-Lite, GDF-2006.

Main Brush Setting—The main brushes should be set 1 to 1-1/2 commutator bars ahead of neutral.

Third Brush Adjustment—Loosen cover band. Shift third brush by hand. Mounting plate held in any position by friction clamp washers. Third brush should be set 1 bar minus 1 mica (min.) to 1 bar (max.) from the insulated main brush.

RELAY-REGULATOR

Auto-Lite, VRR-4001-A Pos. Ground

A combination of Cut-Out Relay and Vibrating Point Voltage Regulator, with auxiliary set of points on relay armature.

CUT-OUT RELAY

Resistance of Voltage Winding—29.8 to 33.0 ohms.

Points Close—6.4 to 6.6 volts.

Points Open—4.2 to 4.8 volts (points open with a discharge of approximately 4 to 6 amperes).

Contact Point Gap—.015 inch minimum.

Armature Air Gap—.031 to .034 inch.

Armature Spring—12-3/4 turns.

VOLTAGE REGULATOR

Resistance of Voltage Winding—10.8 to 12.0 ohms.

Resistance Unit—Auto-Lite, TC-51-L, marked "30"; Ohms 28 to 32.

Armature Air Gap—.048 to .052 inch (the distance between core and underside of armature when contacts just open).

Contact Point Gap—.012 inch minimum (armature pressed down against stop pin).

Operating Voltage—7.35 to 7.65 (70° F.)

Armature Spring—14-1/2 turns.

LIGHTING

Switch—H. A. Douglas Mfg. Co., No. 5842.

Location—Behind instrument board.

Fuses—Two 30 amp. fuses (type 3AG-30) mounted on fuse block; one fuse protects the stop light, body light and cigar lighter circuits, while the other protects the lighting switch circuits. Single 2 amp. fuse (type 1AG-2) on back of clock.

Stop Light Switch—H. A. Douglas Mfg. Co., No. 5529.

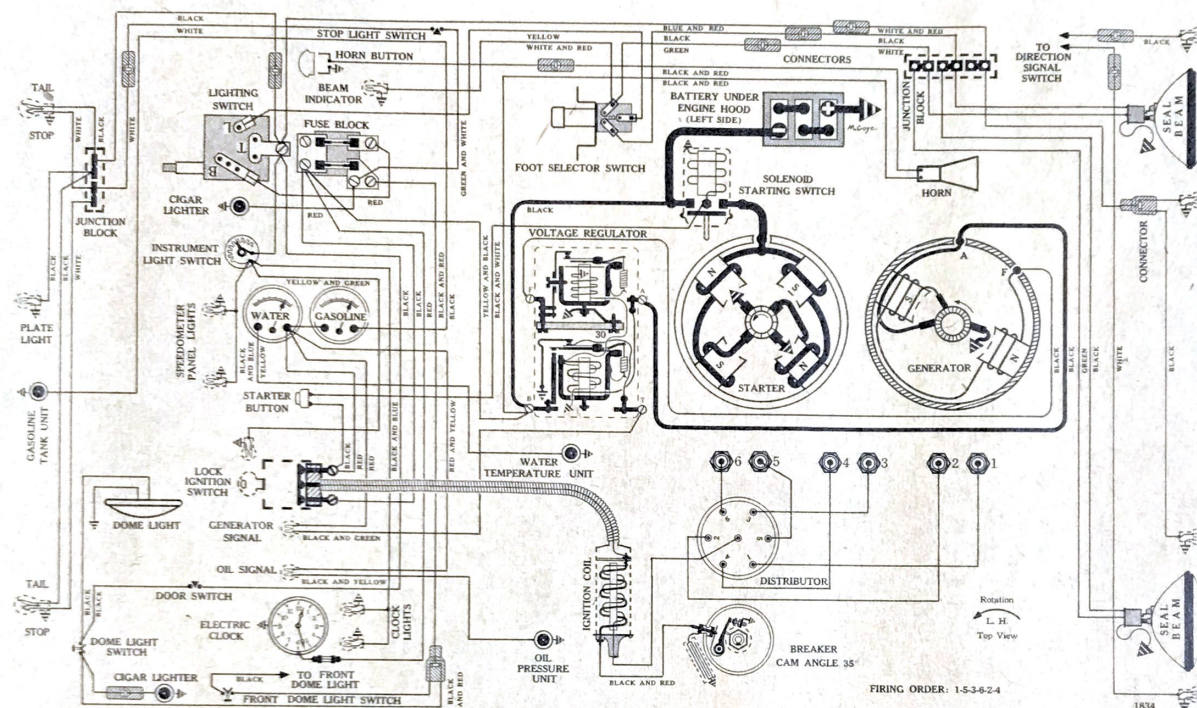
Foot Selector Switch—Hudson, 160089.

Lamps—HEAD--4030; PARKING--55; FENDER--63; BEAM INDICATOR--51; GENERATOR AND OIL INDICATOR--55; INSTRUMENT--55; IGNITION LOCK--51; CLOCK--51 and 55; RADIO--44; DOME--87; LICENSE PLATE--63; STOP AND TAIL--1154.

HUDSON

Engine { Bore 3
Stroke 5

Models 11 "Super", 12 "Commodore" and 18 "Big Boy", 6 cyls., (1941)



BATTERY

National, HT-17, 6 Volts
Positive Terminal Grounded

Starting Capacity—120 amps. for 20 minutes.

Minutes of Discharge at 300 Amps., Zero Degrees F.—3.5

Lighting Capacity—4.8 amps. for 20 hours (96 amp. hour).

Case—Length, 10-9/16; width, 7-1/4; height, 7-13/16 inches.

STARTER

A-L Test 162 Rotation, L. H., Com. End
Auto-Lite, MZ-4092

Connection to Engine—Bendix Drive, Type A-1684.

Running Free—70 amps. at 5-1/2 volts, 4300 R.P.M.

Stall Data—7.8 pound-feet, 420 amps. at 3 volts.

Brush Spring Tension—42 to 53 ounces on each (new brushes).

Brush spring tension should be measured by a scale hooked under the brush spring at the bend just beyond the brush, and the reading taken at moment spring leaves the brush. The pull should be exerted at right angles to force exerted by the brush spring.

Solenoid Starting Switch—Auto-Lite, SS-4001.

Push Button Starting Switch—H. A. Douglas Mfg. Co., No. 5841.

Armature—Auto-Lite, MZ-2138.

IGNITION

A-L Test 715 Rotation, L. H., Top View
Auto-Lite, IGW-4203-A

(Full Automatic Spark Advance in conjunction with Vacuum Chamber which moves the entire Distributor.)

Breaker—Contact separation .020 inch.

Cam Angle—35 degrees.

Percentage of Dwell—59%.

Contact Spring Tension—18 to 20 ounces.

Timing—3 degrees before top dead center. Flywheel mark "U.D.C. 1-6" should register one-half inch before the pointer on the engine rear support plate when breaker points open. This is the recommended timing for low altitudes with standard brands of nonpremium gasoline, having an octane rating of approximately 70. Lower grade fuels may necessitate a slight retard. In high altitudes, or when using premium gasolines, timing may be advanced not to exceed a distance of one inch before pointer.

Spark Plugs—14-MM (Champion type J-9); Gap .032 inch.

Firing Order—1-5-3-6-2-4.

Vacuum Distributor Control (Auto-Lite, VC-3060-E; Test No. 661)—7½ degrees advance (Dist.). Starts with vacuum of 6-3/4 inches of mercury. Requires a vacuum of 10 inches for full travel.

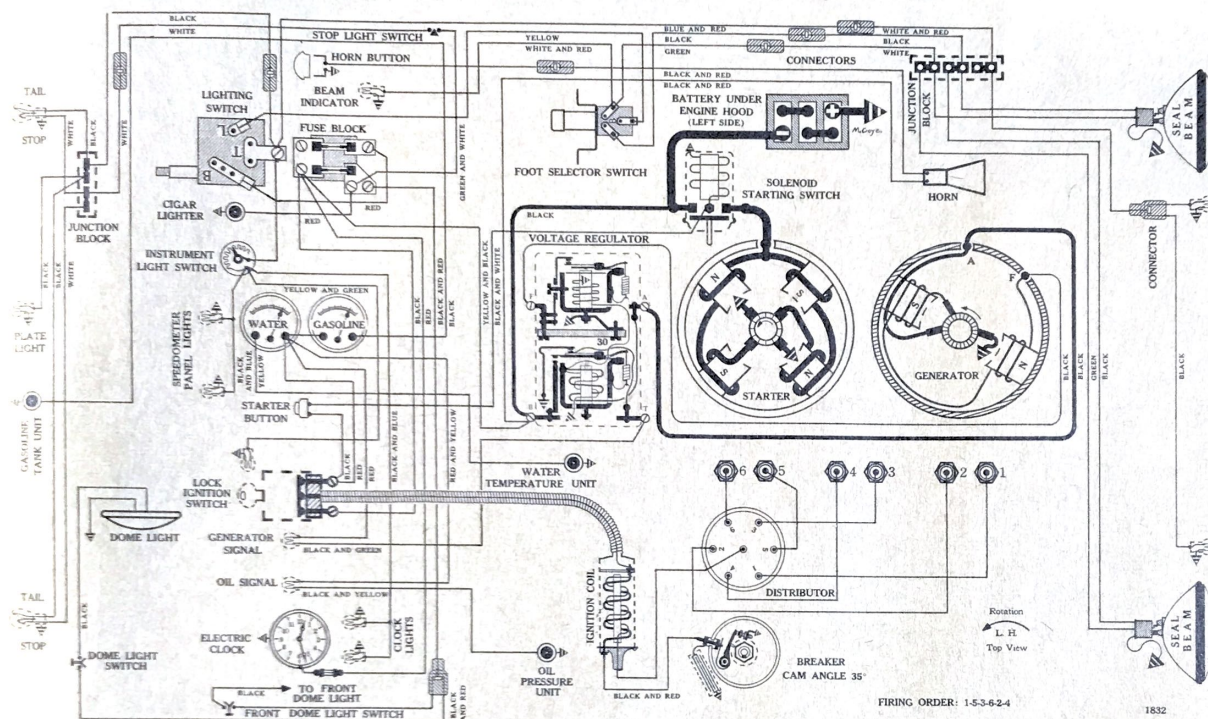
Vacuum Chamber Advance Table—

Inches of Mercury	Degrees Dist. Advance
6.75	Start
7.18	1
7.61	2
8.04	3
8.48	4
8.91	5
9.34	6
9.78	7
10.00	7½

HUDSON

 Engine { Bore 3
Stroke 4-1/8

Models 10, "Traveler", "DeLuxe" and "Business", 6 cyls., (1941)



BATTERY

 National, HT-17, 6 Volts
Positive Terminal Grounded

Starting Capacity—120 amps. for 20 minutes.

Minutes of Discharge at 300 Amps., Zero Degrees F.—3.5

Lighting Capacity—4.8 amps. for 20 hours (96 amp. hour).

Case—Length, 10-9/16; width, 7-1/4; height, 7-13/16 inches.

STARTER

 A-L Test 162 Rotation, L. H., Com. End
Auto-Lite, MZ-4092

Connection to Engine—Bendix Drive, Type A-1684.

Running Free—70 amps. at 5-1/2 volts, 4300 R.P.M.

Stall Data—7.8 pound-feet, 420 amps. at 3 volts.

Brush Spring Tension—42 to 53 ounces on each (new brushes).

Brush spring tension should be measured by a scale hooked under the brush spring at the bend just beyond the brush, and the reading taken at moment spring leaves the brush. The pull should be exerted at right angles to force exerted by the brush spring.

Solenoid Starting Switch—Auto-Lite, SS-4001.

Push Button Starting Switch—H. A. Douglas Mfg. Co., No. 5841.

Armature—Auto-Lite, MZ-2138.

IGNITION

 A-L Test 715 Rotation, L. H., Top View
Auto-Lite, IGW-4203-A

(Full Automatic Spark Advance in conjunction with Vacuum Chamber which moves the entire Distributor.)

Breaker—Contact separation .020 inch.

Cam Angle—35 degrees.

Percentage of Dwell—59%.

Contact Spring Tension—18 to 20 ounces.

Timing—3 degrees before top dead center. Flywheel mark "U.D.C. 1-6" should register one-half inch before the pointer on the engine rear support plate when breaker points open. This is the recommended timing for low altitudes with standard brands of nonpremium gasoline, having an octane rating of approximately 70. Lower grade fuels may necessitate a slight retard. In high altitudes, or when using premium gasolines, timing may be advanced not to exceed a distance of one inch before pointer.

Spark Plugs—14-MM (Champion type J-9); Gap .032 inch.

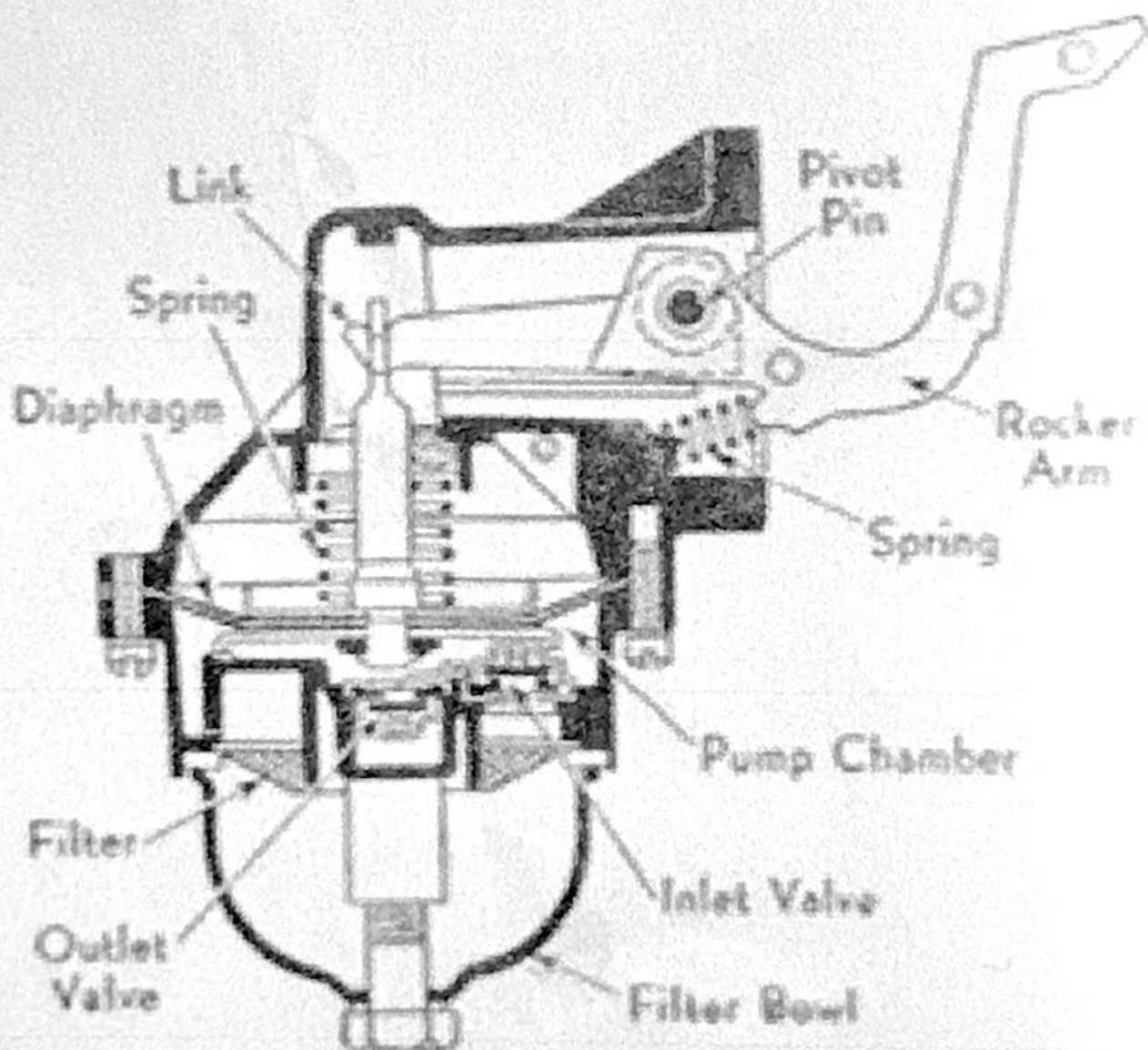
Firing Order—1-5-3-6-2-4.

Vacuum Distributor Control (Auto-Lite, VC-3060-E; Test No. 661)—7½ degrees advance (Dist.). Starts with vacuum of 6-3/4 inches of mercury. Requires a vacuum of 10 inches for full travel.

Vacuum Chamber Advance Table—

Inches of Mercury	Degrees Dist. Advance
6.75	Start
7.18	1
7.61	2
8.04	3
8.48	4
8.91	5
9.34	6
9.78	7
10.00	7½

For reference only-some pumps differ



MODEL AH—AW IS SIMILAR