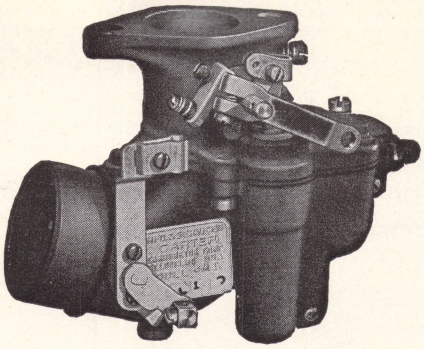
MOTOR SERIAL NUMBERS
T152—2745 and up
T154—2482 and up



DODGE TRUCK CAB-OVER-ENGINE

Model Nos.: B-1-FM, B-1-HM, B-1-HHM, B-1-JML, B-1-KMAL—1½ Ton
Model Nos.: B-1-JM, B-1-KMA—2 Ton

1948-1949

(6N2 can also be used)

B-B UP-DRAFT CARBURETER—**No. 6M1**

CARBURETER SPECIFICATIONS

For Dodge Six Cylinder Engine: 3-7/16 Inch Bore, 4¼ Inch Stroke (T152)

For Dodge Six Cylinder Engine: 3-7/16 Inch Bore, 4½ Inch Stroke (T154)

Dimensions: Flange size, 1½ inch (38.10 mm).
Throttle bore, 1-7/16 inch (38.51 mm).
Main venturi, 1⅛ inch I. D. (28.58 mm).
Air bleed through venturi to idle passage .0885 to .0905 inch diameter (2.25 to 2.30 mm) drill.

Float Setting: Distance from top of float to top surface of lower body casting 1/32 to 1/16 inch (.79 to 1.59 mm).

Vent: To float chamber size, No. 30 (3.26 mm) drill.

Balance Vent Tube: Inside diameter, 7/32 inch (5.56 mm). Restriction hole, upper body 5/32 inch (3.97 mm) diameter.

Gasoline Intake Needle: Triangular, horizontal. No. 44 (2.18 mm) drill in needle seat.

Idle Jet Tube: Jet size, .0236 inch (.60 mm) drill.

Idle Ports: Lower port size: .062 to .064 inch (1.58 to 1.63 mm) diameter.
Top of port located .005 to .009 inch (.13 to .23 mm) below lower edge of valve. Upper port size: .053 to .057 inch (1.35 to 1.45 mm) diameter (for idle adjustment screw).

Set Idle Adjustment Screw: ½ to 1 turn open. For richer mixture, turn screw out. Do not idle engine below 300 r.p.m. or 6 m.p.h.

Main Metering Screw: Calibrated to flow 316 to 320 cc per minute. (Do not gauge for size. If in doubt, replace with new part.)

Nozzle: Discharge jet size, No. 33 (2.87 mm) drill.
Side holes: 2—.0394 inch (1.00 mm) drill 1/16 inch (1.59 mm) from shoulder.
1—.051 inch (1.3 mm) drill ⅜ inch (9.525 mm) from shoulder.
1—.063 inch (1.6 mm) drill 23/32 inch (18.256 mm) from shoulder.
1—.051 inch (1.3 mm) drill 1-1/16 inch (26.99 mm) from shoulder.

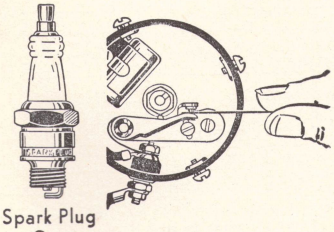
Air Bleed to Nozzle: (Vent tube) Size, .0394 inch (1.00 mm) drill.

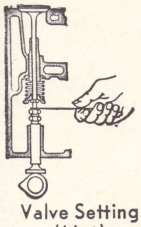
Step-Up Jet: (Power Orifice) Size, .0472 inch (1.20 mm) drill.

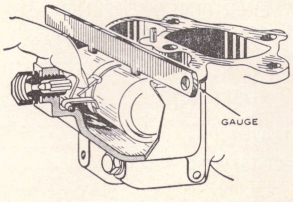
Accelerating Pump: Type, low pressure, delayed action. Stroke: Summer setting (inner hole, short stroke) 9/16 inch (14.29 mm).
Winter setting (outer hole, long stroke) 1 inch (25.40 mm).
Pump intake ball check: Size ⅛ inch (3.175 mm).
Pump discharge (through nozzle).

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

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







Spark Plug Gap .028"-.032" (Std.) .038" (Resistor)

Breaker Point Setting .020"

Ignition Timing Breaker Points to Open: T.D.C. (T152) 2° A.T.D.C. (T154)

Valve Setting (Hot) Intake .010" Exhaust { .014" (T152) { .018" (T154)

Float Setting (Use Gauge) 1/32 to 1/16

Idle Adjustment Screw Setting ½ to 1 Turn Open

CARBURETER
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MARCA REGISTRADA

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CARBURETER ADJUSTMENTS

To Secure a Good Idle: Set throttle lever adjusting screw so motor runs approximately 300 r.p.m. Then set idle adjustment screw so motor fires evenly. Correct setting will be found between ½ to 1 turn open. A richer mixture is obtained by backing out adjustment screw—a leaner mixture by turning screw in. If motor stalls while idling, remove idle passage tube and idle jet tube and clean with compressed air.

To Improve Acceleration: Examine pump link setting: For winter driving, link screw should be set in outer hole, giving long stroke; for hot weather, in high altitudes, pump link should be connected in inner hole, giving short stroke. If this does not give desired results, the main metering jet, pump metering jet, check valve assembly and pump valve assembly should be removed and cleaned with compressed air.

If Motor Loads—Check Float Level: Wear on lip of float lever will raise float level from factory setting, causing carbureter to load up. To lower float level, bend lip of float lever toward needle. To raise float level, bend lip away from needle. A very slight bend is sufficient. Be sure to bend lip of float, **not** bracket.

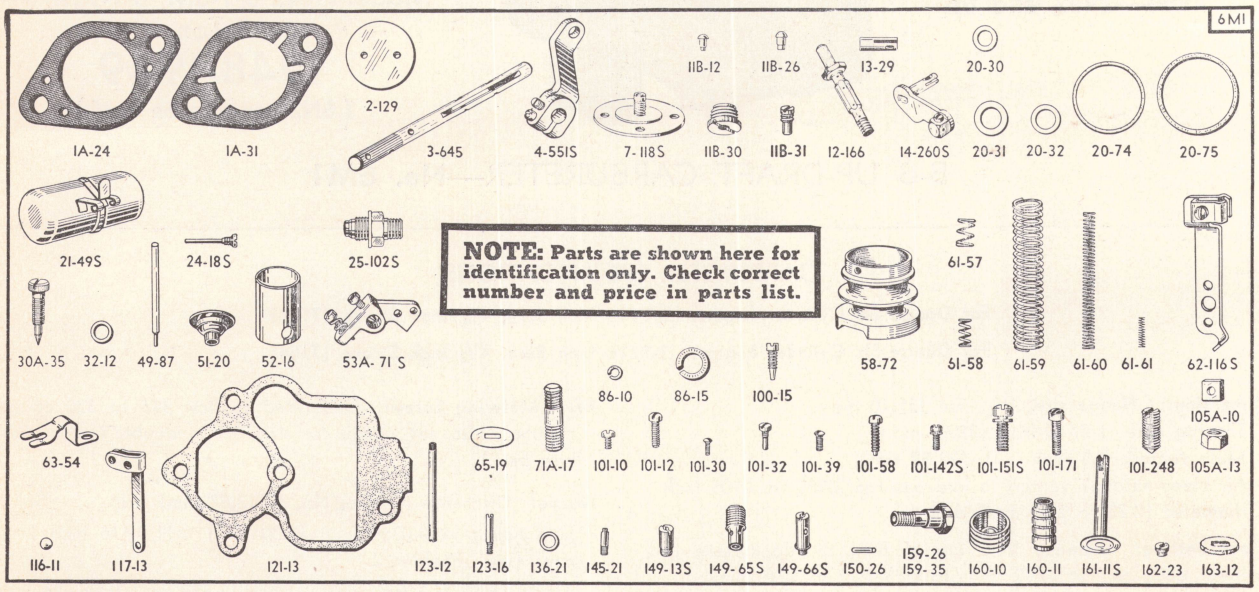
Economy: (a) Maximum economy is secured only when breaker points, spark plugs, valves and motor timing are set to manufacturer's specifications.

(b) Float level must set as instructed on page 1.

(c) Step-up valve cage assembly should be examined. Ball check in this assembly must seat and move freely. When reassembling valve cage must be screwed in tight against seat.

(d) Step-up push rod must move freely in upper and lower guides.

(e) Step-up piston in upper casting should not bind and must be free from dirt.



Dodge Carbureter No. 6M1—1948-1949

WHEN SERVICING, USE GASKET ASSORTMENT No. 172A; REPAIR PACKAGE No. 1597

PART NAMES IN CAPITAL LETTERS, LISTED BELOW, INDICATE CONTENTS OF REPAIR PACKAGE

Part No.	PART NAME
1A-24	FLANGE GASKET—FOR USE WITH GOVERNOR
1A-31	FLANGE GASKET—FOR USE WITHOUT GOVERNOR
2-129	Throttle valve
3-645	Throttle shaft
4-551S	Throttle lever assembly
7-118S	Choke valve assembly
11B-12	Rivet passage plug
11B-26	Rivet plug (3)
11B-30	Step-up piston plug
11B-31	Idle hole plug
12-166	Nozzle
13-29	Choke shaft—stub
14-260S	Choke assembly with clamp and screw
20-30	NOZZLE GASKET
20-31	Needle seat gasket
20-32	METERING SCREW GASKET
20-74	Venturi gasket—upper
20-75	Venturi gasket—lower
21-49S	Float and lever assembly
24-18S	FLOAT LEVER PIN AND PLUG ASSEMBLY
25-102S	NEEDLE AND SEAT ASSEMBLY
30A-35	Idle adjustment screw
32-12	Pump rod gasket
49-87	STEP-UP PUSH ROD
51-20	Pump collar
52-16	Pump sleeve
53A-71S	Pump arm assembly
58-72	Venturi
61-57	Idle adjustment screw spring
61-58	Throttle lever adjusting screw spring
61-59	PUMP SPRING
61-60	STEP-UP PISTON SPRING
61-61	Step-up spring
62-116S	Choke tube bracket assembly
63-54	Packing retainer

Part No.	PART NAME
65-19	Pump link cover plate (2)
71A-17	Flange stud (2)
86-10	Lock washer
86-15	Flange stud lock washer (2)
100-15	Pump arm clamp screw
101-10	Wire clamp screw
101-12	Clamp screw
101-30	Choke valve screw (2)
101-32	PUMP LINK SCREW
101-39	Throttle valve screw (2)
101-58	Throttle lever adjusting screw
101-142S	Attaching screw and washer assembly (3)
101-151S	Body attaching screw and washer assembly **(3)**
101-171	Throttle lever clamp screw
101-248	Throttle lever set screw
105A-10	Choke tube clamp nut
105A-13	Flange nut (2)
116-13	Step-up check ball
117-13	Pump link
121-13	BODY GASKET
123-12	Idle passage tube
123-16	IDLE ORIFICE TUBE
136-21	Float pin plug washer
145-21	VENT TUBE
149-13S	CHECK VALVE CAGE ASSEMBLY
149-65S	PUMP VALVE CAGE ASSEMBLY
149-66S	STEP-UP VALVE CAGE ASSEMBLY
150-26	Pump collar pin
159-26	Main metering screw—1 size lean
159-35	MAIN METERING SCREW
160-10	Pump piston
160-11	STEP-UP PISTON
161-11S	Pump rod plate and rod assembly
162-23	Power orifice
163-12	FELT PACKING

NOTE: Figures in parentheses indicate number of pieces used in one carbureter. Where no figure is shown, only one is used.