

CARBURETER INDEX

Year	Carbureter Numbers	Car Model
1940-41	†6C1-6C2	T88-T89
1940-41	†6D1	T88
1940-41	6DIR	Retail
1940-48	6E1	T90-T91-T128-T130
1941-42	6F1	T98-T128-T130
1941-42	6G1	T130

(6DIR can be used in place of 6C1-6C2-6D1)

† 6DIR Carbureter will be shipped on orders for 6C1, 6C2 or 6D1. The instructions below should be followed when 6DIR Carbureter is used to replace 6C1, 6C2 or 6D1.

6C1—Use the following parts which are packed in carton with carbureter:—4-238S, 4A-39S, and 62-118S.

6C2—No additional parts necessary.

6D1—Use 156-29 gas line connection which is packed in carton with carbureter.

DODGE TRUCKS
CAB-OVER-ENGINE
1940-1948

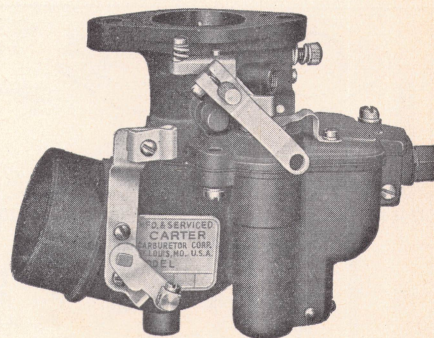


Figure shows 1940 Carbureter, No. 6C1.

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	BREAKER POINTS	IGNITION TIMING	SET VALVES With Motor at Operating Temperature	FLOAT LEVEL (Remove Gasket)
.025"	.020"	<p>Breaker Points to Open</p> <p>6C1-6C2-6D1-6DIR-6G1 T. D. C.</p> <p>6E1 Aluminum Pistons 2° A. T. D. C. Cast Iron Pistons 6° A. T. D. C.</p> <p>6F1 2° A. T. D. C.</p>	<p>6C1-6C2-6D1-6DIR Intake .008" Exhaust .012"</p> <p>6E1-6F1 Intake .010" Exhaust .012"</p> <p>6G1 Intake .010" Exhaust .014"</p>	<p>Correct Float Level 1/32" to 1/16" Below Edge of Casting</p>

CARBURETER ADJUSTMENTS

To Secure a Good Idle: Set throttle lever adjusting screw so motor runs approximately 300 rpm. Then set idle adjustment screw so motor fires evenly. Correct setting will be found between (1/4 to 1/4 on 6E1, 6F1) (1/2 to 1/2 on 6C1, 6C2, 6D1, 6DIR) turns 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

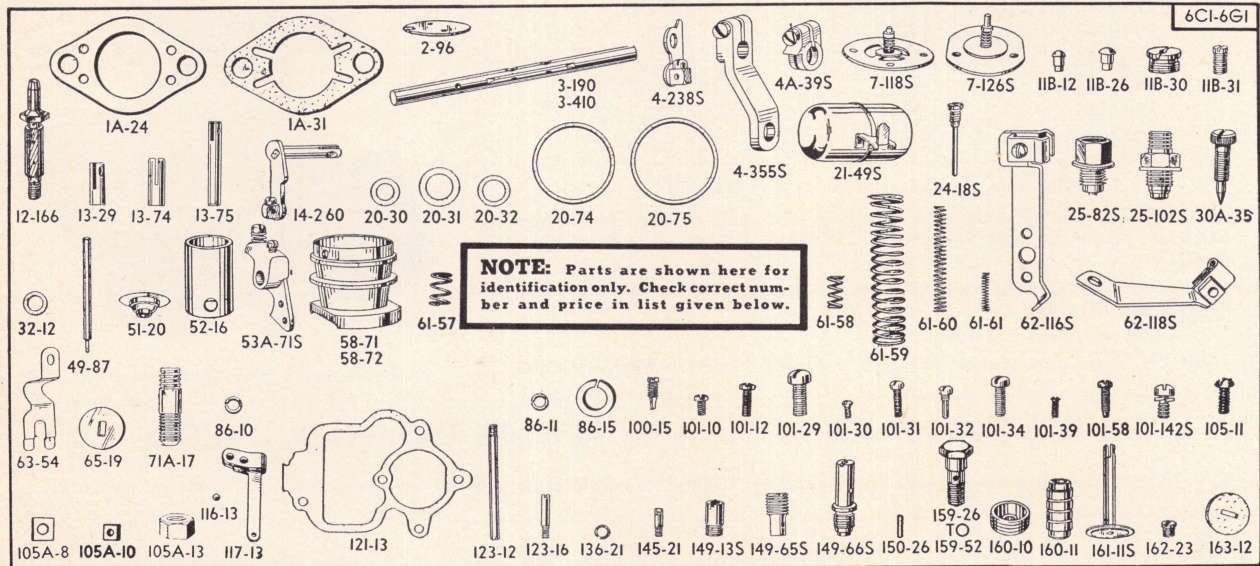
be connected in inner hole, giving short stroke. If this does not give desired results, the main metering jet, pump metering jet, check valve assembly and pump valve assembly should be removed and cleaned with compressed air.

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.



PARTS LIST

WHEN SERVICING, USE GASKET ASSORTMENT No. 172A (All); REPAIR PACKAGE No. 1597 (6E1)
 PART NUMBERS IN BOLD TYPE, LISTED BELOW, INDICATE CONTENTS OF REPAIR PACKAGE

PART NAME	6C1-6C2	6D1-6DIR	6E1	6F1	6G1
Flange Gasket—With Gov.....	1A-24	1A-24	1A-24	1A-24	1A-24
Flange Gasket—Without Gov...	1A-31	1A-31	1A-31	1A-31	1A-31
Throttle valve.....	2-96	2-96	2-96	2-96	2-96
Throttle shaft.....	3-190	3-190	3-410	3-190	3-410
Throttle lever ass'y (loose).....	4-238S (6C1)			4-238S	
Throttle lever ass'y.....	4-355S	4-355S	4-355S	4-355S	4-355S
Fast idle cam.....	4A-39S (6C1)			4A-39S	
Choke valve assembly.....	7-118S	7-118S	7-118S	7-126S	7-126S
Rivet plug.....	11B-12	11B-12	11B-12	11B-12	11B-12
Rivet plug.....	11B-26	11B-26	11B-26	11B-26	11B-26
Step-up piston plug.....	11B-30	11B-30	11B-30	11B-30	11B-30
Idle hole plug.....	11B-31	11B-31	11B-31	11B-31	11B-31
Nozzle.....	12-166	12-166	12-166	12-166	12-166
Choke shaft—stub.....	13-29	13-29	13-29	13-74	13-74
Choke shaft.....				13-75	13-75
Choke lever and clamp ass'y....	14-260S	14-260S	14-260S		
Nozzle gasket.....	20-30	20-30	20-30	20-30	20-30
Needle seat gasket.....	20-31	20-31	20-31	20-31	20-31
Metering screw gasket.....	20-32	20-32	20-32	20-32	20-32
Venturi gasket—upper.....	20-74	20-74	20-74	20-74	20-74
Venturi gasket—lower.....	20-75	20-75	20-75	20-75	20-75
Float and lever ass'y.....	21-49S	21-49S	21-49S	21-49S	21-49S
Float lever pin and plug ass'y..	24-18S	24-18S	24-18S	24-18S	24-18S
Needle and seat ass'y.....	25-82S	(25-82S (6DIR) 25-102S (6DI)	25-102S	25-102S	25-102S
Idle adjustment screw.....	30A-35	30A-35	30A-35	30A-35	30A-35
Pump rod gasket.....	32-12	32-12	32-12	32-12	32-12
Step-up push rod.....	49-87	49-87	49-87	49-87	49-87

PART NAME	6C1-6C2	6D1-6DIR	6E1	6F1	6G1
Pump collar	51-20	51-20	51-20	51-20	51-20
Pump sleeve	52-16	52-16	52-16	52-16	52-16
Pump arm assembly.....	53A-71S	53A-71S	53A-71S	53A-71S	53A-71S
Venturi	58-71	58-71	58-72	58-71	58-71
Idle adjustment screw spring....	61-57	61-57	61-57	61-57	61-57
Throttle lever adjusting screw spring	61-58	61-58	61-58	61-58	61-58
Pump spring	61-59	61-59	61-59	61-59	61-59
Step-up piston spring.....	61-60	61-60	61-60	61-60	61-60
Step-up spring	61-61	61-61	61-61	61-61	61-61
Choke tube bracket ass'y.....	62-116S	62-116S	62-116S		
Choke tube clamp assembly.....	62-118S (6C1)			62-118S	
Packing retainer	63-54	63-54	63-54	63-54	63-54
Pump link cover plate.....	265-19	265-19	265-19	265-19	265-19
Flange stud	271A-17	271A-17	271A-17	271A-17	271A-17
Lock washer	86-10	86-10	86-10	86-10	86-10
Lock washer	386-11	*386-11	*386-11	*386-11	*386-11
Flange stud lock washer.....	286-15	286-15	286-15	286-15	286-15
Headless screw	100-15	100-15	100-15	100-15	100-15
Wire clamp screw.....	101-10	101-10	101-10	101-10	101-10
Clamp screw	101-12	101-12	101-12	101-12	101-12
Body attaching screw.....	3101-29				
Choke valve screw	2101-30	2101-30	2101-30	2101-30	2101-30
Throttle lever adjusting screw..	101-58 (101-31)	101-58 (101-31)	101-58	101-58	101-31
Pump link screw.....	101-32	101-32	101-32	101-32	101-32
Throttle lever clamp screw.....	101-34	101-34	101-34	101-34	101-34
Throttle valve screw.....	2101-39	2101-39	2101-39	2101-39	2101-39
Choke bracket screw and washer assembly	101-142S	101-142S	101-142S	101-142S	101-142S
Screw and lock washer ass'y....		3101-151S (101-29)	3101-151S (101-29)	3101-151S (101-29)	3101-151S (101-29)
Clamp screw	105-11	105-11		105-11	
Tube clamp nut.....	105A-8	105A-8		105A-8	
Choke tube clamp nut.....	105A-10	105A-10	105A-10		
Flange stud nut.....	2105A-13	2105A-13	2105A-13	2105A-13	2105A-13
Check ball	2116-13	2116-13	2116-13	2116-13	2116-13
Pump link	117-13	117-13	117-13	117-13	117-13
Body gasket	121-13	121-13	121-13	121-13	121-13
Idle passage tube.....	123-12	123-12	123-12	123-12	123-12
Idle orifice tube.....	123-16	123-16	123-16	123-16	123-16
Plug washer	136-21	136-21	136-21	136-21	136-21
Vent tube	145-21	145-21	145-21	145-21	145-21
Check valve cage ass'y.....	149-13S	149-13S	149-13S	149-13S	149-13S
Pump valve cage ass'y.....	149-65S	149-65S	149-65S	149-65S	149-65S
Step-up valve cage ass'y.....	149-66S	149-66S	149-66S	149-66S	149-66S
Pump collar pin.....	150-26	150-26	150-26	150-26	150-26
Main metering screw— Standard	159-51	159-51	159-35	159-51	159-51
Main metering screw— One size lean.....	159-52	159-52	159-26	159-52	159-52
Main metering screw— Two sizes lean.....	159-48	159-48		159-48	159-48
Pump piston	160-10	160-10	160-10	160-10	160-10
Step-up piston	160-11	160-11	160-11	160-11	160-11
Pump rod plate and rod ass'y..	161-11S	161-11S	161-11S	161-11S	161-11S
Power orifice	162-23	162-23	162-23	162-23	162-23
Felt packing	163-12	163-12	163-12	163-12	163-12

*Use with 101-29 on 6D1, 6DIR, 6E1, 6F1, 6G1.

NOTE: Parts in parentheses (in small italic type) are superseded by the part number shown above them.
Small figures preceding part number indicates number of pieces in one carburetor.

CARBURETOR

TRADE MARK REG. U. S. PAT. OFF.
MARCA REGISTRADA

CARBURETER SPECIFICATIONS

	6C1-6C2-6D1-6DIR	6E1	6F1-6G1
DIMENSIONS:			
Flange size.....	1 1/2" (38.10 mm)	1 1/2" (38.10 mm)	1 1/2" (38.10 mm)
Throttle bore.....	1-7/16" (36.51 mm)	1-7/16" (36.51 mm)	1-7/16" (36.51 mm)
Main venturi, I. D.....	1-1/16" (26.99 mm)	1 1/8" (28.58 mm)	1-1/16" (26.99 mm)
Air bleed through venturi to idle passage, Dia.....	.0885" to .0905" (2.25 to 2.30 mm) Dr.	.0885" to .0905" (2.25 to 2.30 mm) Dr.	.0885" to .0905" (2.25 to 2.30 mm) Dr.
FLOAT SETTING: Distance from top of float to top surface of lower body casting.....	1/32" to 1/16" (.79 to 1.59 mm)	1/32" to 1/16" (.79 to 1.59 mm)	1/32" to 1/16" (.79 to 1.59 mm)
VENT: (To Float Chamber) Size.....	No. 30 (3.26 mm) Dr.	No. 30 (3.26 mm) Dr.	No. 30 (3.26 mm) Dr.
BALANCE VENT TUBE:			
Inside diameter.....	7/32" (5.56 mm)	7/32" (5.56 mm)	7/32" (5.56 mm)
Restriction hole, upper body—diam.....	5/32" (3.97 mm)	5/32" (3.97 mm)	5/32" (3.97 mm)
GASOLINE INTAKE			
Needle: Triangular, Horizontal. Hole in needle seat. Size.....	No. 44 (2.18 mm) Dr.	No. 44 (2.18 mm) Dr.	No. 44 (2.18 mm) Dr.
IDLE JET TUBE:			
Jet size.....	.0236" (.60 mm) Dr.	.0236" (.60 mm) Dr.	.0236" (.60 mm) Dr.
IDLE PORTS:			
Lower port size, diam.....	.062" to .064" (1.58 to 1.63 mm)	.062" to .064" (1.58 to 1.63 mm)	.062" to .064" (1.58 to 1.63 mm)
Distance—Top of port below lower edge of valve.....	.005" to .009" (.13 to .23 mm)	.005" to .009" (.13 to .23 mm)	.005" to .009" (.13 to .23 mm)
Upper port (for idle adj. screw), diam.....	.053" to .057" (1.35 to 1.45 mm)	.053" to .057" (1.35 to 1.45 mm)	.053" to .057" (1.35 to 1.45 mm)
SET IDLE ADJUSTMENT SCREW: Turns open (Do not idle engine below 6 mph.).....	1/2 to 1 1/2	1/4 to 1 1/4	1/4 to 1 1/4
MAIN METERING SCREW: Calibrated to flow per minute.....	286 to 290 cc	316 to 320 cc	286 to 290 cc
NOZZLE:			
Discharge jet size.....	No. 33 (2.87 mm) Dr.	No. 33 (2.87 mm) Dr.	No. 33 (2.87 mm) Dr.
SIDE HOLES:			
2—.0394" (1.00 mm) Dr. Distance from shoulder.....	1/16" (1.59 mm)	1/16" (1.59 mm)	1/16" (1.59 mm)
1—.051" (1.3 mm) Dr. Distance from shoulder.....	3/8" (9.525 mm)	3/8" (9.525 mm)	3/8" (9.525 mm)
1—.063" (1.6 mm) Dr. Distance from shoulder.....	23/32" (18.256 mm)	23/32" (18.256 mm)	23/32" (18.256 mm)
1—.051" (1.3 mm) Dr. Distance from shoulder.....	1-1/16" (26.99 mm)	1-1/16" (26.99 mm)	1-1/16" (26.99 mm)
AIR BLEED TO NOZZLE:			
Vent tube, size.....	.0394" (1.00 mm) Dr.	.0394" (1.00 mm) Dr.	.0394" (1.00 mm) Dr.
STEP-UP JET: (Power orifice) Size.....	.0472" (1.20 mm) Dr.	.0472" (1.20 mm) Dr.	.0472" (1.20 mm) Dr.
ACCELERATING PUMP:			
Type, Low Pressure, Delayed Action:			
Summer setting (inner hole), short stroke.....	9/16" (14.29 mm)	9/16" (14.29 mm)	9/16" (14.29 mm)
Winter setting (outer hole), long stroke.....	1" (25.40 mm)	1" (25.40 mm)	1" (25.40 mm)
Pump intake ball check size.....	1/8" (3.175 mm)	1/8" (3.175 mm)	1/8" (3.175 mm)
Pump discharge through nozzle.....			
VACUUM SPARK PORT:			
Slot (round end type).....	.040" x .110" (1.016 x 2.794 mm)	.040" x .110" (1.016 x 2.794 mm)	.040" x .110" (1.016 x 2.794 mm)
Distance—Top of port below valve.....	.003" to .009" (.076 to .229 mm)	.003" to .009" (.076 to .229 mm)	.003" to .009" (.076 to .229 mm)

CARBURETER

TRADE MARK REG. U. S. PAT. OFF.
MARCA REGISTRADA