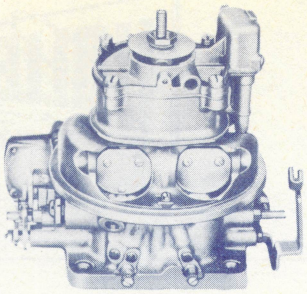

HOLLEY Carburetor Co.
VAN DYKE, MICHIGAN

FORM NO. F-94
ISSUE NO. 1 (9-55)

1956 FORD

THUNDERBIRD SPORT CAR

(292 & 312 CUBIC INCH ENGINE)
STANDARD & AUTOMATIC TRANSMISSION

APPLICATION DATA

VEHICLE		CARBURETOR MODEL 4000						DISTRIBUTOR		
		Holley Model 4000						Holley Model 1312		
Year	Model	Current Part No.	Replaces Part No.	Ford Part No.	Master Repair Kit No.	Gasket Kit No.	Needle & Seat Assembly	Current Part No.	Ford Part No.	Distributor Point No.
1956	8 Cyl., Thunderbird Standard Transmission (292 Cubic inch)	R-1163A		ECJ-9510-R	85R-429	85G-427	18R-28A	D-1113A	FEF-12127-B	76D-94A
	8 Cyl., Thunderbird Automatic Transmission (312 Cubic Inch)	R-1164A		ECJ-9510-N						

CARBURETOR SPECIFICATIONS

	R-1163A	R-1164A
IDLE SYSTEM		
Idle Air Bleed	.052"	.052"
Idle Fuel Restriction	.025"	.025"
Idle Channel Restriction	.043"	.043"
Idle Plate—Angle	5°	5°
Idle Adjusting Needle	40°	40°
Idle Discharge Hole	.0595"	.0595"
Idle Transfer Hole—Upper	.040"	.040"
Idle Transfer Hole—Lower	.037"	.037"
Idle Transfer Hole—Location	.025"	.025"
Top of throttle plate below bottom of hole		
Transfer Tube Discharge Port	.070"	.070"
MAIN METERING SYSTEM		
Inlet Needle Seat	.110"	.110"
Main Jet (0-5,000 Ft.)	.050"	.050"
(5,000-10,000 Ft.)	.049"	.049"
(10,000-15,000 Ft.)	.048"	.048"
Venturi Diameter	1 1/16"	1 1/16"
Aspirating Nozzle	.140"	.140"
High Speed Bleed	.120"	.120"
Booster Venturi Diameter	25/64"	25/64"
POWER SYSTEM		
Economizer Diaphragm Assembly	For Service Stamped "B" No. 28 (1-.028")	For Service Stamped "B" No. 28 (1-.028")
Power Valve		
Power Valve Channel Restriction	.040"	.040"
SECONDARY SYSTEM		
Jet (0-5,000 Ft.)	.073"	.073"
(5,000-10,000 Ft.)	.0635"	.0635"
(10,000-15,000 Ft.)	.055"	.055"
Transfer Hole—Upper	.036"	.036"
Transfer Hole—Center	.031"	.031"
Transfer Hole—Lower	.031"	.031"
Throttle Plate—Location	.000"-.005"	.000"-.005"
Top of throttle plate below bottom of hole		
Throttle Plate—Angle	20°	20°
Venturi Diameter	1"	1"
High Speed Bleed	.028"	.028"
Channel Restriction	.0595"	.0595"
Channel Check Ball	1/8" Steel	1/8" Steel
Channel Check Ball Seat	.098"	.098"

	R-1163A	R-1164A
ACCELERATING PUMP SYSTEM		
Pump Capacity, 10 Strokes	12-16 cc	12-16 cc
Pump Spring	.035" Wire	.035" Wire
Pump Link—Position	No. 1	No. 1
Pump Discharge Nozzle	.028"	.028"
FLOAT SYSTEM		
Fuel Level at 4½ lbs. Pressure	½"	½"
Float Setting—Open	Bottom in Bowl	Bottom in Bowl
Float Setting—Closed	¼"	¼"
Float Gage	82R-55 (Snap-On MC-189)	82R-55 (Snap-On MC-189)
DASHPOT		
Clearance with plunger at solid height and Carburetor at curb idle	—	.045"-.064"
SPARK CONTROL VALVE		
	No By-Pass Stamped	No By-Pass Stamped
Spark Valve	65	65
PRESSURE DISTRIBUTOR		
Connecting Restriction	.052"	.052"
Manifold Vacuum Restriction	.038"	.038"
Manifold Timing Port	.0595"	.0595"
Manifold Timing Port Revealing	.055"	.055"
SECONARDY OPERATING SYSTEM		
Primary Venturi Pickup Port	.067"	.067"
Secondary Venturi Pickup Port	.0465"	.0465"
Diaphragm Check Ball	3/16" Steel	3/16" Steel

NOTE: See Catalog Sheet No. F-2032 for Distributor Advance Curve.

CAUTION: Check for worn parts and leaky gaskets. Always use feeler gages and approved tools when tuning engine.

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1956 FORD

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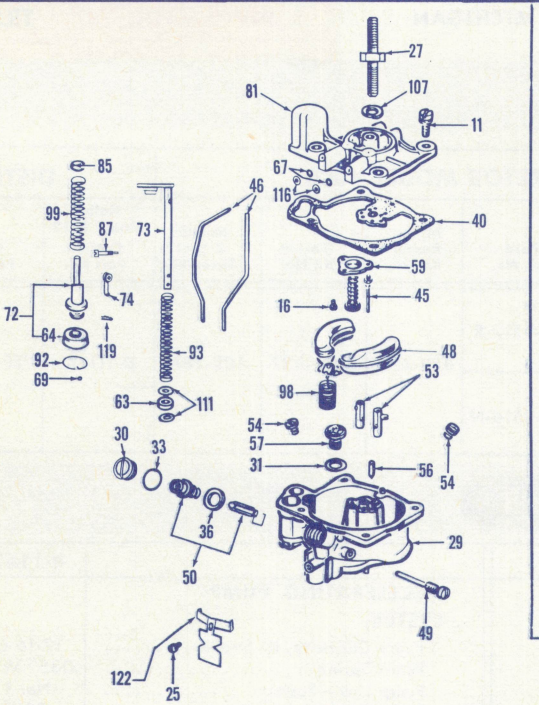
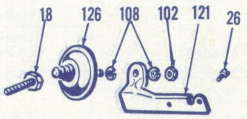
STANDARD & AUTOMATIC
TRANSMISSION

HOLLEY Carburetor Co.

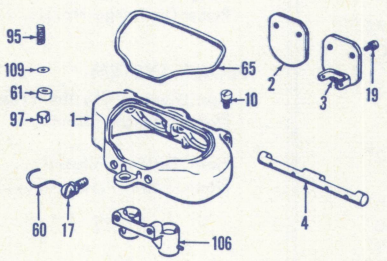
HOLLEY PART NO. R-1163A

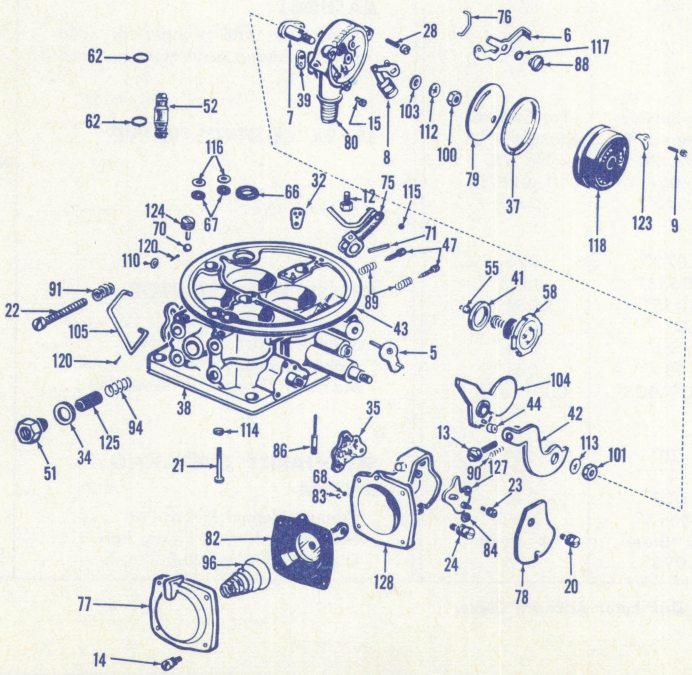




R-1164A

OTHERWISE THE SAME AS R-1163A





HOLLEY Carburetor Co.

1956 FORD

THUNDERBIRD SPORT CAR
(292 & 312 CUBIC INCH ENGINE)
STANDARD & AUTOMATIC TRANSMISSION

ENGINE SPECIFICATIONS

1956 FORD 8 CYLINDER THUNDERBIRD SPORT CAR, STANDARD & AUTOMATIC TRANSMISSION

Spark Plug Gap	.032"-.036"
Breaker Point Gap	.014"-.016"
Breaker Arm Spring Tension	17-20 oz.
Condenser Capacity	.21-.25 mfd.
Ignition Timing (Points to open) Standard Trans.	3° B.T.C.
Automatic Trans.	6° B.T.C.
Valve Setting—(Engine Hot)—	
Intake	.019"
Exhaust	.019"
Fuel Pump (Pressure at 900 R.P.M.)	3½-5½ lbs.
Idle Speed—R.P.M. Standard Transmission	475
Automatic Transmission in "Drive"	425-450

PARTS LIST

ALWAYS ORDER BY PART NUMBER AS LISTED BELOW, NEVER BY INDEX NUMBER. WHEN ORDERING PARTS OR SUBASSEMBLIES CONTAINING FUEL METERING PASSAGES, PLEASE ALSO SPECIFY CARBURETOR PART NO.

INDEX NO.	PART NAME	PART NO.	R-1163A	R-1164A
1	Air Horn & Plugs Assembly	1R-618A	1	1
2	Plate—Choke R.H.	2R-229	1	1
3	Plate Assembly—Choke L.H.	2R-279A	1	1
4	Shaft—Choke Plate	3R-239	1	1
5	Shaft Assembly—Choke	3R-260A	1	1
6	Lever—Choke Thermostat	4R-391	1	1
7	Lever Assembly—Choke Housing	4R-440A	1	1
8	Piston & Lever Assembly—Choke	4R-441A	1	1
9	Screw—No. 8—32 x .44 in. (Thermostat Housing)	5R-16	3	3
10	Screw & Lock Washer—No. 10—32 x .62 in. (Air Horn)	5R-290	1	1
11	Screw & Lock Washer—No. 12—24 x .62 (Main Body Cover, Short)	5R-333	4	4
12	Screw & Lock Washer—No. 5/16—24 x .88 in. (Throttle Body, Short)	5R-335	1	1
13	Screw—No. 10—32 x .88 in. (Throttle Adjusting (Cam)	5R-343	1	1
14	Screw & Lock Washer—No. 8—32 x .44 in. (Diaphragm Cover Assembly)	5R-365	4	4
15	Screw & Lock Washer—No. 8—32 x .62 in. (Choke Housing, Short)	5R-370	1	1
16	Screw & Lock Washer—No. 8—32 x .312 in. (Economizer)	5R-375	1	1
17	Screw & Lock Washer—No. 10—32x.44 in. (Secondary Venturi)	5R-415	2	2
18	Screw—No. 10—32 x .87 in. (Dashpot Adjusting)	5R-447		1
19	Screw & Lock Washer—No. 4—48 x .25 in. (Choke Plate)	5R-474	4	4
20	Screw & Lock Washer—No. 6—32 x .25 in. (Diaphragm Housing Cover)	5R-476	1	1
21	Screw—No. 5/16—24 x 3¼ in. (Throttle Body, Long)	5R-480	1	1
22	Screw & Lock Washer—No. 10—32 x 1.38 in. (Throttle Stop)	5R-496	1	1
23	Screw & Lock Washer—No. 6—32 x .31 in. (Diaphragm Lever Assembly)	5R-506	1	1
24	Screw & Lock Washer—No. 8—32 x .44 in. (Diaphragm Housing Assembly)	5R-508	3	3
25	Screw & Lock Washer—No. 8—32 x .25 in. (Secondary Tube Bracket)	5R-512	1	1
26	Screw & Lock Washer—No. 10—32 x .37 in. (Dashpot Bracket)	5R-523		2
27	Screw—Air Cleaner Anchor	5R-560	1	1
28	Screw & Lock Washer—No. 8—32 x .88 in. (Choke Housing, Long)	5R-573	2	2
29	Main Body & Plugs Assembly	6R-1183A	1	1
30	Plug—Fuel Valve Seat	7R-113	1	1
31	Gasket—Power Jet Valve	8R-69	1	1
32	Gasket—Main Body to Throttle Body	8R-402	1	1
33	Gasket—Fuel Valve Plug	8R-410	1	1
34	Gasket—Fuel Inlet Fitting	8R-482	1	1
35	Gasket—Diaphragm Housing	8R-591	1	1
36	Gasket—Fuel Valve Seat	8R-624	1	1
37	Gasket—Thermostat Housing	8R-626	1	1
38	Gasket—Flange	8R-634	1	1
39	Gasket—Choke Housing	8R-647	1	1
40	Gasket—Main Body Cover	8R-648	1	1
41	Gasket—Spark Valve	8R-650	1	1
42	Lever (Cam) Throttle	11R-614	1	1
43	Throttle Body & Shaft Assembly	12R-1532A	1	1
44	Bearing—Fast Idle Cam	13R-433	1	1
45	Jet Assembly—Secondary	14R-295A-73	2	2
46	Tube—Secondary Connecting	14R-311	2	2
47	Needle—Idle Adjusting	15R-52	2	2
48	Float & Hinge Assembly	16R-197A	1	1
49	Shaft—Float	17R-14	1	1
50	Valve & Seat Assembly—Fuel Inlet	18R-28A	1	1

NOTE: Underlined part numbers will be found in Master Repair Kits.

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INDEX NO.	PART NAME	PART NO.	R-1163A	R-1164A
51	Fitting—Fuel Inlet	19R-92	1	1
52	Fitting—Fuel Inlet	19R-149	1	1
53	Nozzle Assembly—Discharge	21R-488A	2	2
54	Jet—Main	22R-40-50	2	2
55	Restriction—Spark Valve	22R-53-38	1	1
56	Valve—Pump Discharge	23R-115	1	1
57	Valve Assembly—Power Jet	25R-80A-28	1	1
58	Valve Assembly—Spark	25R-189A-65	1	1
59	Diaphragm & Stem Assembly Economizer	25R-208A-8	1	1
60	Wire—Secondary Venturi Safety	27R-55	1	1
61	Seal—Pump Rod Felt	27R-70	1	1
62	Seal—Fuel Inlet Fitting	27R-109	2	2
63	Ring—Lubricator, Pump Operating Rod	27R-113	1	1
64	Cup—Accelerating Pump Piston	27R-130	1	1
65	Seal—Air Horn	27R-131	1	1
66	Grommet—Air Tube	** 27R-145	1	1
67	Seal —Secondary Connecting Tube	27R-148	4	4
68	Valve—Diaphragm Check	28R-1	1	1
69	Valve—Pump Check	28R-94	1	1
70	Ball—Secondary Check	28R-94	2	2
71	Pin—Choke Plate Lever	29R-526	1	1
72	Piston Assembly—Accelerating Pump	30R-219A	1	1
73	Rod Assembly—Pump Operating	31R-146A	1	1
74	Link Assembly—Pump	33R-242A	1	1
75	Lever & Link Assembly—Choke Plate	33R-275A	1	1
76	Link—Choke Thermostat Lever	33R-276	1	1
77	Cover—Diaphragm	34R-1011	1	1
78	Cover—Diaphragm Housing	34R-1012	1	1
79	Cover—Choke Housing Plate	34R-1116	1	1
80	Housing & Plugs Assembly—Choke	34R-1304A	1	1
81	Cover & Plugs Assembly—Main Body	34R-1364A-54	1	1
82	Diaphragm Assembly	35R-136A	1	1
83	Retainer—Diaphragm Check Valve	36R-162	1	1
84	Retainer—Diaphragm Link	36R-164	1	1
85	Retainer—Pump Operating Rod	36R-164	1	1
86	Retainer—Distributor Check Valve	36R-165	1	1
87	Stud—Pump Rod	37R-120	1	1
88	Stud—Choke Thermostat Lever	37R-124	1	1
89	Spring—Idle Adjusting Needle	38R-108	2	2
90	Spring—Throttle Adjusting Screw (Cam)	38R-110	1	1
91	Spring—Throttle Stop Screw	38R-110	1	1
92	Spring—Pump Check Valve Ret.	38R-236	1	1
93	Spring—Accelerating Pump Return	38R-339	1	1
94	Spring—Filter Screen Retainer	38R-342	1	1
95	Spring—Pump Rod Seal	38R-434	1	1
96	Spring—Diaphragm	38R-464	1	1
97	Selector—Bowl Vent	38R-486	1	1
98	Spring—Float (Purple)	38R-508	1	1
99	Spring—Accelerating Pump	38R-526	1	1
100	Nut—Hexagon, No. 8—36 (Choke Shaft)	39R-5	1	1
101	Nut—Hexagon, No. 8—36 (Throttle Lever)	39R-5	1	1
102	Nut—Lock, No. 5/16—24 Dashpot	39R-106		1
103	Spacer—Choke Thermostat Lever	40R-108	1	1
104	Cam Assembly—Fast Idle	41R-127A	1	1
105	Rod—Secondary Throttle Connecting	43R-173	1	1
106	Venturi Assembly—Secondary	45R-100A	1	1
107	Washer—Lock Air Cleaner Anchor Screw	46R-3	1	1
108	Washer—Lock, 5/16" Dashpot Nut	46R-10		2
109	Washer—Lubricator, Pump Operating Rod	46R-11	1	1
110	Washer—Secondary Throttle Connecting Rod	46R-25	1	1
111	Washer—Pump Rod Seal	46R-131	2	2
112	Washer—Lock, Choke Shaft Nut	46R-248	1	1
113	Washer, Lock, Throttle Lever Nut	46R-248	1	1
114	Washer—Lock, Thro. Body Screw	46R-367	1	1
115	Washer—Choke Shaft Thrust	46R-407	1	1
116	Washer—Secondary Connecting Tube Seal	46R-422	4	4
117	Washer—Choke Thermostat Stud	46R-447	1	1
118	Housing Assembly—Thermostat (Complete)	47R-75A	1	1
119	Retainer—Pump Link	48R-117	1	1
120	Pin—Cotter, Secondary Throttle Connecting Rod	48R-183	2	2
121	Bracket—Dashpot	49R-283		1
122	Bracket—Secondary Connecting Tube	49R-325	1	1
123	Clamp—Thermostat Housing	49R-128	3	3
124	Retainer—Secondary Check Ball	50R-44	2	2
125	Screen & Retainer Assembly Filter	57R-19A	1	1
126	Dashpot Assembly	58R-32A		1
127	Lever Assembly—Diaphragm	63R-249A	1	1
128	Housing & Plug Assembly Diaphragm	79R-344A	1	1

NOTE: Underlined part numbers will be found in Master Repair Kits.