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# IH: Carburetor, Intake Manifold & Exhaust - Sub-01K

## Bendix Carb Identification

See also in the Sportsterpedia:

- [Bendix Carb Basic Information](#)
- [Rebuilding the Bendix Carb](#)
- [Bendix Carb Functions, Adjustments, Tuning](#)

## Bendix Carbs by Serial/Model Number

<b>Bendix / Zenith I6P12 (1972-Early 1976)</b>	
27155-72 <sup>1)</sup>	1972-
27155-72A <sup>2)</sup>	1972-Early 1975
27155-72B <sup>3)</sup>	1975-Early 1976

There are a lot of Sportsters out there that do not have their original Bendix carb attached to them. Consequently, this page will try to bring to light at least some the differences in these carbs.

One could say it's a blessing that Bendix carbs for Harleys will interchange.

One could also say it's a curse.

Bendix carbs for Sportsters were set up for Sportsters.

Bendix carbs for other HD models were set up for the needs of those motors.

Changing the jetting alone (on other intended model carbs) to Sportster specs may still not give the results intended.

The 27155-72A Sportster carb has another number stamped into the ID pad (13732).

This Bendix part number denotes a certain configuration carb body and / or internal parts.

### **Change Letters:**

You may have noticed a letter beside the HD part number or it may be arbitrarily stamped in the ID pad away from the HD number.

Carbs with changes made during the build phase had the change letter included at the end of the HD stamped part number.

Carbs with changes made at the dealership (customer owned bikes) had the change letter stamped into the existing ID pad...somewhere.

This explains the arbitrary location of some of the change letters.

For example, an "A" stamped into the ID pad away from the HD part# is a Bendix modification letter, not a suffix letter to the HD part#.

## Bendix model 13479:

The model 13479 carb was used on FLP, FLH and FX model Harley Davidsons.

The letters A, B, C, D, E and F stamped near the basic Bendix part number (13479) are change letters. Meaning they denote certain changes made per carb model.

The following changes are noted in Technical Service Bulletin (614A). <sup>4)</sup>

- **Change for 13479A:**

- The float setting was changed from 1/8" to 3/16" to remedy a rich condition occurring at steady speeds.
- The clearance between the float tang and the wire clip on the needle decreased. It should be .005"-.010" between the top of the tang and bottom of the portion of spring that hangs over the tang.

- **Change for 13479B:**

- A new choke valve has detents with a spring loaded plunger engaging the detents to provide positive positioning throughout the choking range.
- New part (27664-71 choke shaft replaces 27664-70.
- New part 27665-71 plunger added.
- 27666-71 plunger spring added.

- **Change for 13479C & 13479D:**

Changes were made to correct over-rich mixtures in the intermediate (off idle) speed range.

- A new idle jet has two .06mm holes instead of one .08mm hole near the screw end.
  - New part (27725-71) idle jet has the letter 'A' stamped on the screw end and replaces 27723-71.
  - The idle air bleed hole in the carb body was enlarged from 3.35mm to 3.60mm (app. 9/64: in diameter).  
Idle jet (27725-71 must be used with the drilled out passage in this carb for proper carburetion.  
Dealers could drill the bleed hole and stamp the change letter *if* there was a problem with the field unit's performance.
  - The accelerator pump shaft had 2 additional holes to allow for an increase or decrease of quantity of fuel delivery.  
Factory setting for the pin was the center hole.

## Bendix model 13609 and 13731

There were three Bendix carburetors, designated in the parts catalogs, that were installed on Sportsters.

Sportster Year Model	HD Part #	Bendix Part #	Venture Size	No. of Idle Discharge Holes	Idle Tube
<b>E1972</b>	27155-72 <sup>5)</sup>	13609A	36mm	3	(A) 27749-72
	27155-72 <sup>6)</sup>	13609B	36mm <sup>7)</sup>	4 <sup>8)</sup>	(B) 27750-72
<b>L1972-1974</b>	27155-72A <sup>9)</sup>	13731	38mm	4	(E72-73)

<b>1975-Early 1976</b> (also '71-'75 FL/FLH/FX models)	27155-72B <sup>10) 11) 12)</sup>	13731	38mm	4	integrated w / carb body no letter designation not meant for replacement
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**Bendix model 13732**

- 27152-71A (13732) - 38mm, was reportedly factory installed on a '74 XLH delivered from the dealer in July 1974. <sup>13)</sup>

**Other known Bendix ID information:**

HD Part #	Bendix Part #	Venture Size	No. of Idle Discharge Holes
27152-71 <sup>14)</sup>		36mm	
27152-71 <sup>15)</sup>	13479A	36mm	3
27152-71 <sup>16)</sup>	13479E	36mm	
27152-71A <sup>17)</sup>	13732	38mm	
27152-72 <sup>18)</sup>		38mm	
27155-72B <sup>19)</sup>		36mm	
27155-72B <sup>20)</sup>	13731C	38mm	

Zenith 13859A Also has the word Andpro.  
Andrews Products used to sell a Bendix carb. No HD markings

Facet		Zenith		CUSTOMER APPLICATIONS		Page 6		
Year	Model	Current Prod. Carb. Number	Carb. Model	Mfg. No.	Carb Kit	Gasket Set	Fuel Valve	Service Replacement Carb.
<b>GRAVELY TRACTOR</b>								
1966-75	Super L	0-13246	68-7	10878A1	K2112	C181-328	C81-17-35	0-12544
<b>HARLEY DAVIDSON MOTOR CO. (AMERICAN MACHINE &amp; FOUNDRY)</b>								
1970-72	L-295,							
	J10ENG	0-13558	1612	1003184	K2184	C181-352	C81-74-40	
1971-72	Sportster	0-13609	16P12	27156-72	K2177	C181-352	C81-72	0-13731
1973-77	Sportster	0-13731	16P12	27156-72B	K2177	C181-352	C81-72	
1980-72	Electro							
	Glide 74 C.I.	0-13478	16P12	27152-71	K2177	C181-352	C81-72	0-13732
1973-74	Electro							
	Glide 74 C.I.	013732	16P12	27152-71A	K2177	C181-352	C81-72	



# Zenith

## CARBURETOR SPECIFICATIONS



Form 3-800  
Page 161

Carburetor Number	REF. NO.	13478	13479	13481	13486	13487	13488	13489	13492***
Carburetor Model		62AJ12	16P12	1310	267LW10	1408	267X9	267J10	Z268J8
Customer Name		J.I. Case	Harley-D.	U.S. Army	Hercules	Onan	I.H.C.	Continental	Continental
Customer Number		13478	27162-71	1164105	40-3060001	1410781	4052313R91	CA10F-300	CABF-311B
Venturi	1	B38-34-33	Cast-In (36)	Cast-In (26)	B38-89-27		B38-71-22	B38-76-28	
Main Jet	2	C52-11-35	C66-143	C52-7-30	C52-36-33	C71-64-34	C52-7-26	C52-7-35	
Idle Jet	3	C55-7-12	C54-40-16	C54-37-12	C55-22-20		C55-22-15	C55-22-16	
Discharge Jet	4	C66-98-1-10	C66-143		C66-102-2-70		C66-102-2-70	C66-102-70	
Power/Accelerator Jet	5			C55-27-12	C57-12-15				
Power Jet Valve	6				C97-23-16				
Metering Well	7								
Fuel Valve & Seat	8		C81-72	C81-67-30	C81-68-35	C81-50-25	C81-68-45	C81-68-40	C81-66-35
Well Vent Jet	9	C77-18-15			C77-18-10		C77-18-21	C77-18-18	
Pump or Econ. Jet	10		C36-93X3	C189-2	C189-3				
Float & Axle	11	C85-40-S	C85-130	C85-127-S	C85-115-S		C85-115-S	C85-115-S	
Main Jet Adjustment	12								
Choke Shaft & Lever	13	C105-167	C108-306	C108-274	C108-297-2	C108-294	C108-177-3	C105-301	
Choke Bracket or Cover	14	C109-46		C109-72	C109-60		C109-60	C109-60-1	
Choke Lever/Auto Choke	15	C106-17						C106-2	
Throttle Shaft & Lever	16	C29-1757	C29-1871		C29-1188	C29-1689	C229-1840-1	C29-1524	C229-1447
Throttle Lever	17								
Floating Lever	18								
Floating Lever Stop	19								
Idle Adj. Screw & Spring	20	C46-38-S	C46-68-S	C46-57-S	C46-54-S	C46-68-S	C46-54-S	C46-54-S	
Throttle Plate & Screw	21	C21-76-S	C21-224	C21-217-S	C21-206	C21-219-S	C21-202-S	C21-207-S	
Karb Kit	22	K204Q	K2177	K2167	K2152	K2165	K2127	K2127	K2169
Gasket Set	23	C181-65	C181-352	C181-350	C181-359	C181-362	C181-325	C181-339	C181-329
Replacement Carburetor		11744	13731	13660			13465		

\*C24-181 Floating Lever Also Required \*\*Indicates Two Pieces Required \*\*\*Low Emission Carburetor

## Venture Size

The venturi size is cast into the venturi. <sup>21)</sup>

Looking in the carb from the air cleaner end, the numbers are on the venturi at 12:00 o'clock on the radiused entry.

They are small but every bendix should have the number stamped there.



22)

## I.D. Numbers

27155-72 (13609B), arbitrary 'B', venturi stamped 36mm <sup>23)</sup>



27155-72B (13731C), arbitrary 'C', venturi stamped 38mm <sup>24)</sup>



Both of these carbs are stamped 27152-71.

One has a '36' and the other has a '38' stamped inside the venturi.

27152-71A (13732) - venturi stamped '38' <sup>25) 26)</sup>



27152-71 (13479A) arbitrary 'A' - venturi stamped '36' <sup>27)</sup>



27152-71 (13479E) arbitrary 'E', adjustable jet <sup>28)</sup>

27152-71 (13479E) arbitrary 'E', fixed jet, 36mm <sup>29)</sup>





## 36mm and 38mm Comparison

Side by side comparison of 36mm and 38mm Bendix carbs.

Aside from the venturi size, the other main difference that might affect the way it runs is the number of secondary idle discharge ports.

These are the holes that get uncovered by the throttle plate at part throttle settings.

The 38mm has 3 (in addition to the idle adjustment screw hole).

The 36 has 2 (in addition to the idle adjustment screw hole).

The air cleaner screw bosses on the 36mm are smaller.



## Idle Passages

The 13609A 36mm carb has 3 idle passages. <sup>33)</sup>

The 13609B 36mm carb has 4 idle passages. <sup>34)</sup>

The 38mm carbs have 4 idle passages.

## Main Jet / Idle Tube

One feature of an adjustable main jet, (besides the number), is the holes near the bottom that are drilled at about a 45° angle. <sup>35)</sup>

Note that on the adjustable main jet shown below (R), the top of it looks identical to the fixed jet. <sup>36)</sup>



Some have converted their fixed main jet setup to an adjustable jet.

The C66-157 fixed main jet came standard on a 1974 Sportster.



The C66-184 adjustable main jet has the tube extending beyond the taper. <sup>40)</sup>

Bendix C66-184 adjustable main jet <sup>41)</sup>



## Idle Tube

Alternate references include intermediate / idle / low speed jet. The original idle tubes are designated with either an A, B, or C marked on top. <sup>42)</sup>

Tube sizes:

These are removable (threaded) jets.

Both the A and B tubes were used on the early 27155-72 (13609B) and 27155-72 (13731) carbs.

Neither the screw type "C" tube nor it's successors were ever installed on a Sportster carb (officially anyway).

- A = .60mm <sup>43)</sup> (27749-72) standard on carbs through change letter "A".
- B = .65mm <sup>44)</sup> (27750-72) standard on carbs through change letter "B".
- C = <sup>45)</sup> standard on carbs through change letter "C".

**72-74 Sportster Fixed Idle Tube:** (screw in type - no adjustment)



<sup>46)</sup>



<sup>47)</sup>

**75-E76 Sportster Fixed Idle Tube:** (pressed in type - no adjustment)

Note: Measurements taken on used / removed idle tube from carb #27155-72B (13731C)



## Throttle Linkage

Here's another, and more significant difference. <sup>53)</sup>

The cable attachment to the throttle shaft is in a different position which changes the geometry of the cable action.

With the 36 mm carb, the cable pulls from over center with the stock outer jacket bracket.

As you can see in the left picture, even with a modified bracket, the geometry isn't great.

The picture on the right is the same 36mm carb with the correct throttle shaft and return spring for a

38mm carb added.

The throttle return spring is substantially stronger than the original (for the 36mm).

It also required an additional spring to properly return.

The standard (38mm style) bracket was used to support the outer jacket of the cable.



## Pics of Bendix Carbs

# 27152-71A



57)



58)



59)



60)



61)



62)



63)



64)



65)



66)



67)



68)

## 27155-72B (13731)

27155-72B (13731) fixed jet (hidden under welch plug). Also has stampings 'C' and '5 95' <sup>69)</sup>



# Zenith Replacement Carbs

## 0-13731

- Standard Finish <sup>70)</sup>
- 38mm venturi
- Fixed main jet
- Fits all H-D® Sportster 1974 through 1980 engines
- OEM for (27155-72B)

## 0-13859

- Standard Finish -38mm -venturi <sup>71)</sup>
- Adjustable main jet
- Fits all H-D® Sportster 1974 thru 1980 engines



<sup>72)</sup>

## 0-14130

- Standard Finish <sup>73)</sup>
- 40mm venturi
- Dual throttle cable
- All year H-D® models with use of proper manifold.
- Designed for Evolution® motors



## 015110 and 015112

- 015110 - Standard finish <sup>74)</sup>
- 015112 -Chrome finish
- 40mm venture
- Adjustable main jet
- Dual throttle linkage-spigot mount
- Fits 1984 Evolution Engines & H-D Twin Cam models 1999 and later.

## Parts List

Parts listed from the 1962-1973 Sportster Parts Catalog Supplement (99451-73)

Part#	Item	Year
1214HW	SCREW, No. 10 x 24 x 3/4" fillister head	1972
3738	BOLT, throttle cable clamp, 1/4" x 28 x 1/2" Hex Head	1972
6316W	WASHER, carburetor to manifold stud, 5/16" x 5/8" x 1/16" (2)	1972
7036	LOCKWASHER, throttle cable clamp bolt 1/4"	1972
7725	LOCKNUT, carburetor to manifold stud, 5/16" x 24 (2)	Late 1972
7739	LOCKNUT, carburetor to manifold stud, 5/16" x 18 (2)	Early 1972
20014-67	STUD, carburetor to manifold (2)	Early 1972
27021-71	INTAKE MANIFOLD	1972
27023-71	GASKET, carburetor to intake manifold	1972
27060-55	O-RING, intake manifold (2)	1972
27063-57	CLAMP, with screw and buckle (2)	1972
27065-57	BUCKLE, clamp (2)	1972
27132-71	REPAIR PARTS AND GASKET KIT	1972
27155-72	CARBURETOR	1972
27164-71	ROLL PIN , accelerator pump	1972
27271-71	SCREW, throttle stop, #8-32 slotted hex head	1972
27272-71	SPRING, throttle return	1972
27281-71A	THROTTLE SHAFT AND LEVER	1972
27282-71	THROTTLE PLATE	1972
27326-71	O-RING	1972
27341-71	LEVER, accelerator pump	1972
27342-71	SCREW WITH LOCKWASHER, #1/8-40 (4)	1972
27389-71	BOOT, accelerator pump	1972
27396-71	SCREW WITH LOCKWASHER, #4-36	1972
27403-71	WASHER, main jet (fiber)	1972
27404-71	WASHER, idle jet (fiber)	1972
27449-72	BRACKET, throttle cable with clamp	1972

27612-71	MAIN JET, 0.90	1972
27613-71	SPRING, throttle stop screw	1972
27614-71	MAINJET, 0.95mm	1972
27618-71	MAIN JET, 1.00mm	1972
27619-71	MAIN JET, 1.05mm (standard)	1972
27630-71	FLOAT	1972
27631-71	PIN, float	1972
27641-71	IDLE ADJUSTING SCREW	1972
27642-71	SPRING, idle adjusting screw	1972
27645-71	BOWL	1972
27646-71	GASKET, bowl	1972
27659-71	SPRING, float	1972
27663-71	CHOKE PLATE	1972
27664-71	CHOKE SHAFT AND LEVER	1972
27665-71	PIN, choke friction spring	1972
27666-71	FRICITION SPRING, choke	1972
27686-71	SCREW, wire block, #8-36 (2)	1972
27737-71	CLIP, fuel valve	1972
27748-71	FUEL VALVE, with clip	1972
27749-72	IDLE JET	Early 1972
27750-72	IDLE JET	Late 1972
27762-71A	ACCELERATOR PUMP	1972
27763-71	BOWL DRAIN PLUG	1972
33298-65	STUD, carburetor to manifold (2)	Late 1972
38679-72	CLAMP, throttle cable bracket	1972
63578-52	INLET FITTING	1972

## Bendix / Zenith Manuals and Other Helpful Links

- [Zenith Fuel Systems.com](http://www.zenithfuel.com)
- [2009 Zenith Fuel Systems LLC PDF for Harley Carbs](#)

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<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/ironhead-sportster-motorcycle-talk-1957-1985/184818-id-carb?t=1981918>

3)

HD Sportster Parts Catalog (99451-78B)

4)

HD TSB 614A dated April 14, 1971

5) 6)

1972,1973 HD Sportster Parts Catalog Supplements (99451-72), (99451-73)

7) 8)

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9)

1973, 1974 HD Sportster Parts Catalog Supplements (99451-73) (99451-74)

10)

1975 HD Sportster Parts Catalog Supplement (99451-75)

11)

1976 HD Sportster Parts Catalog Supplement (99451-76)

12)

1971-1984 HD FX Parts Catalog pg 35

13) 17)

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42) 43)

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