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IH: Carburetor, Intake Manifold & Exhaust - Sub-01P

Keihin Butterfly Carb Identification

See also in the Sportsterpedia:

- [Keihin Butterfly Carb Basic Information](#)
- [Rebuilding a Keihin Butterfly Carb](#)
- [Keihin Butterfly Carb Function and Tuning](#)
- [See TSB #694 for introduction information on the Keihin butterfly carb.](#)

Click the link to view the TSB page in the Sportsterpedia. Then click on the "Y" next to #694 to view / download the PDF.

Keihin butterfly (non-CV)(Late 1976-1987)	
27153-76 ¹⁾	Late 1976 XLH, XLCH
27153-77 ²⁾	1977-1978 XLH, XLCH
27469-78A B83A ³⁾	1979 XL, XLCH, XLS
27469-80A B83D ⁴⁾	1980 XL, XLS
27469-81A B83F ⁵⁾	1981-Early 1982 XL, XLS
27469-82 B83G ⁶⁾	Late 1982 XL, XLS
27469-83C B83K ⁷⁾	1983-1985 XL, XLS, XLX
27148-77 B75A ⁸⁾	1977-1978 XLCR 1000

76-78 Keihin carbs do not have an HD number on it or a stamp pad for numbering. The Keihin number is stamped in the flange.

The best way to identify a 79-up Harley Keihin carb is to read the Keihin number.

It's the first 4 characters stamped on the (R) choke cable side just above the bowl.

The HD part number on some models is on a sticker placed on the top of the carb.

Older carbs either weren't labeled or the sticker may either be missing or unreadable.

As for interchangeability between butterfly carbs;

Any Harley Keihin butterfly carb will interchange but the ones for big twins will need to be re-jetted for a Sportster engine.

The chart on the [Basic carb information page](#) has the factory jetting information for Sportsters.

You may have to go up or down from there depending on what's already in your carb and your specific engine/A/C/exhaust setup.

Also, 76-78 Sportster carbs have a 38mm venture (measured at the smallest point near the throttle plate).

79-87 Sportster carbs have a 34mm venture. However, the carbs installed on BT's may be 38mm.

To find the venture size of the one you have, cut a piece of cereal / kleenex box cardboard 34mm wide and insert it into the most narrow part of the venturi. ⁹⁾

Tight fit = 34 mm, loose fit = 38 mm.

See the pics below for a visual confirmation of year model features.



Late 1976-Early 1978

- Features:

- 38mm venture ¹⁰⁾
- Pump adjusting screw
- Idle mixture Screw
- Throttle stop screw
- Rocker arm
- Intake manifold (27021-71A) ¹¹⁾
- Accelerator pump rod attached at throttle cam ¹²⁾
- 1977
 - New diaphragm accelerator pump ¹³⁾
 - Optional main jets were made available ¹⁴⁾

Late 1978-1980

Changes were made to L78-up carbs due to the [U.S. Clean Air Act of 1978](#).

- Features/ Upgrades:
 - Changed to 34 mm venture ¹⁵⁾
 - Fast idle cam
 - Limiter Cap (over idle mixture)-late 1978-1979
Square block behind the idle mix tower as a stop for the limiter cap.
 - Throttle stop screw, throttle lever
 - Choke plate
 - Choke lever shaft
 - Mounting flange
 - Accelerating pump lever
 - Rocker arm
 - Intermediate lever
 - 1979
 - Optional high altitude modification kit
 - Accelerator pump housing redesigned ¹⁶⁾
 - Fast idle cam
 - 1980-up
 - Idle mixture screw is set and sealed off at the factory due to EPA regulations ¹⁷⁾

1981-1983

- Features/ Upgrades:
 - 34mm venture
 - A second cable added at the throttle (idle cable)
 - Throttle lever
 - Throttle stop
 - Fast idle cam
 - Fast idle cam adjusting screw
 - Accelerator pump
 - 1983

- VOES port
- Evaporative port

Note:

For those sold for use in California (as part of the evaporative emissions kit) the fuel overflow fitting was capped and the overflow line was removed. ¹⁸⁾

1984-1985

- Features/ Upgrades:
 - 34mm venture
 - Dual throttle cables
 - Throttle lever
 - Throttle lever stop
 - Voes vacuum port
 - Fast idle cam
 - Fast idle cam adjusting screw
 - VOES port
 - Evaporative port

Sportster Keihin Butterfly Carbs

(B50A)

L1976 27153-76 Sportster '76 only' Keihin butterfly carb.

Float bowl (27359-76).

Accelerator pump (27364-76), inside casting# (1-2).

It has a solid choke, meaning that the choke plate (butterfly) has no spring action in the linkage. ¹⁹⁾

You can begin to identify -76 only carb cause there is no plastic pieces on the choke shaft.

It also has a idle mixture adjusting screw that was not hidden under a plug. It was rite out in the open where you can get to it.

That is what you can tell from the outside.



20)



21)

The real scoop to tell if it's -76 is on the inside.

Inside, there was no hole drilled between the main jet well and the low speed well to feed the low speed jet.

That made it the only one that didn't use the low speed jet rubber plug you see when you take off the float bowl.

This hole can be seen when you remove the rubber plug and look at the wall between the wells on 77 and up Keihin butterfly carbs.

77-up carbs have a hole to connect the low speed well to the main well. 76 only had no hole.

If you have a 76 only and install rubber plug, your bike won't run.

In the float bowl, the accelerator pump discharge nozzle has a .040" orifice, (stamped 100), as apposed to the .031" (stamped 75) used on 77 up.

But most importantly, it didn't have an accelerator pump "relief" port. You can observe the relief action (if you have a 77-up bowl).

Remove the bowl and the "L" shaped linkage that actuates the pump. Drop the "L" into its hole on the side of the bowl.

Pour enough fuel in the bowl so that you have it about 1/4 full and actuate the pump by depressing the "L" link (don't squirt on yourself).

On the 77-up, there is a little hole down on the bowl floor that fuel squirts out of, as well as the brass nozzle at the gasket surface.

The quicker you press, the more goes thru the "relief".

All "relief" bowls have a steel rod installed under the discharge nozzle. This rod is free in its movement and you can hear it if you shake the bowl.

This rod acts as "variable" resistance to fuel flow to the actual discharge nozzle.

If the pump is actuated slowly enough, all fuel will exit the relief because there isn't enough force to lift the rod.

'76 only' didn't have the rod at all. Instead, it used a check ball assembly in the small cover that is screwed onto the bowl (the one with the 3 holes).

When you shake the small cover when it's removed from the bowl, you will hear the ball. There is no ball on 77-up.

'76 only' has even more differences but those are the biggies.

The JP Cycles Deluxe Carb Rebuild Kit (4000050) will work. ²²⁾

L76 (only) XLH, XLCH main jet 140, slow jet 100,



23)



24)



25)

(B50B) - (B50C)

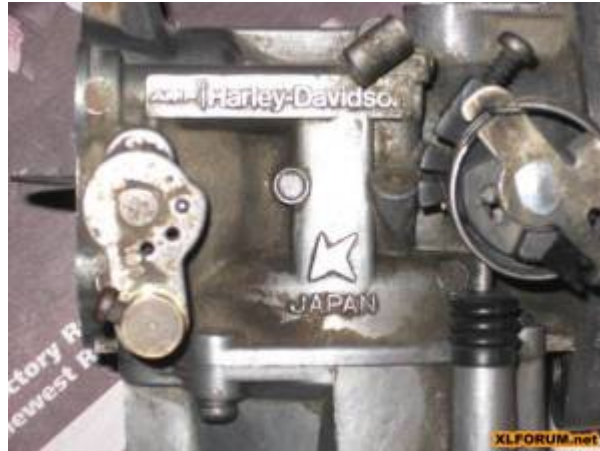
1977-1978 27153-77 Sportster XLH, XLCH, XLT Keihin Butterfly carb.

Float bowl (27384-77).

Accelerator pump (27364-76), inside casting# (1-2).



26)



27)



28)



29)



30)

(B83A) - (B83B)

1979 Sportster 27469-78,³¹⁾ 27469-78A³²⁾ XL, XLCH, XLS models, main jet 165, slow jet 65, limiter cap over the idle mixture screw.

Float bowl (27890-78) (B78A).

Accelerator pump (27891-78). Accel pump 27891-80 was sold in 1985 as a replacement on carb 27469-78A.³³⁾

Idle mixture screw tower has a block made on the back of it as a stop for the limiter cap (27883-78).



34)

B83A:



35)

B83B:



36)



37)



38)



39)

(B83D)

1980 XL, XLS 27469-80, ⁴⁰⁾ 27469-80A ⁴¹⁾

Main jet 165, slow jet 65.

Float bowl (27890-78) (B78A).

Accelerator pump (27891-78). Accel pump 27891-80 was sold in 1985 as a replacement on carb 27469-80A. ⁴²⁾

Soft plug over the A/F mixture screw.

(B83E)

E1981-E1982 XL, XLS 27469-81 ⁴³⁾ ⁴⁴⁾

Main jet 160, slow jet 68.

Soft plug over the A/F mixture screw.

Float bowl(27890-78) (B78A).

Accelerator pump (27891-78).

(B83F)

L1981-E1982 XL, XLS 27469-81A. ⁴⁵⁾

Main jet 160, slow jet 68.

Soft plug over the A/F mixture screw.

Float bowl (27890-78) (B78A).

Accelerator pump (27891-80).



46)



47)

(B83G)

L1982 XL, XLS 27469-82. ⁴⁸⁾

Main jet 150, slow jet 68.

Soft plug over the A/F mixture screw.

Float bowl(27890-78) (B78A).

Accelerator pump (27891-80).

(B83H)

Float bowl (27331-83) (B83H). Casting marks inside the bowl: 328:1

Accelerator pump (27891-80).

E1983 27469-83 XL, XLS, XLX. ⁴⁹⁾

L1983 27469-83A XL, XLS, XLX. ⁵⁰⁾

Main jet 160, slow jet 52.

Soft plug over the A/F mixture screw.

Accelerator pump (27891-80).

Black plug over evaporative port.



51)

(B83K)

1984 27469-83B XL, XLS, XLX.

Main jet 160, slow jet 52.

Soft plug over the A/F mixture screw.

Black plug over evaporative port.

Float bowl (27331-83) (B83H). Casting marks inside the bowl: 328:1

Accelerator pump (27891-80).



52)



53)



54)

(B83K)

1985 27469-83C XL, XLS, XLX

Main jet 160, slow jet 52.

Soft plug over the A/F mixture screw.

Float bowl (27331-83) (B83H). Casting marks inside the bowl: 328:1

Accelerator pump (27891-80).

Black plug over evaporative port.



55)

Other HD Keihin Butterfly Carbs

There are usually lots of compatible Keihin carbs on eBay. Anything from late 1976 up to about 1988 will bolt on and work well. ⁵⁶⁾

They all “look” about the same but there are differences. (As for factory Sportster carbs), best may be the late 1976 to 1978 keihin butterfly.

It is 38 mm, and does not suffer the government mandated modifications that are in the 1979-on Keihins.

27155-76 / 27155-76A

Application for all 76-E1978 FX models, FL, FLH. ⁵⁷⁾ ⁵⁸⁾

No choke spring, no plastic on choke. ⁵⁹⁾

Air Fuel Screw is on top, not buried under a cap.

Accelerator pump has check ball, not the rod.

Low speed jet is covered with rubber plug and there is a hole between the low speed and main well.

Float bowl: ⁶⁰⁾

76-E77 (27359-76).

L77-78 (27359-76A).

Accelerator pump 76-78 (27364-76). ⁶¹⁾

(B28D)

27470-80.

Used on 1980 FXWG-80.

1984- All FX Models.

(B28H)

27470-81A.

Used on 1981-1983 FXS-80, FXB, FXWG, FXSB

(B28K)



(B78A)

27466-78A.
Used on 1979 FXEF.

(B78B)

27466-78A.
Used on L1978-1979 FLH-80 and Classic.



65)

(B78D)

27466-80A.

Used on 1980 FFLH and Classic (sidecar- 1979-later)

(B78E)



66)



67)



68)

(B78F)

27494-81A.

Used on 1981-1984 FLH, Classic.

(B79A)

27472-79.

This was the factory carb mounted to a 1979 FXS-80 / FXEF-80, main jet 160, low speed jet 72.



69)



70)



71)



72)

(B79B)



73)



76)



74)



75)



77)



78)



79)

(B79D)

27472-80A.

Used on 1980 FXS-80, FXEF-80, FXB.

(B79E)



80)



81)



82)

(B79F)

27472-81A.

1981-1983 FXEF-80 / FXE-80



83)



84)



85)



86)

(B80B)

27467-78A.

Used on L1978-1979 FL, FLH. Click on a pic to enlarge: [87\)](#)



(B80D)

27467-80A.

Used on 1980 FL, FLH.

(B81B)

27468-78A.

L1978-1979 FX, FXS, FXE



88)



89)



90)



91)

(B81D)

27468-80A.

1980 FX, FXS, FXEF

(B8?D)

27467-80.

This is reportedly a 1980 Shovelhead carburetor. ⁹²⁾



93)



94)



95)

(B88R)

27034-86B.

1987 All FLT Models.

27029-86

1988 FLT or FXR. 38mm venture. ⁹⁶⁾



⁹⁷⁾



⁹⁸⁾



⁹⁹⁾



¹⁰⁰⁾

(02BL)

27029-83D.

Used on 1984 FXST.

(02BP)

Part number unknown at this time, BT carb . Possible 83 model carb due to the black rubber cap on the top of the carb's evaporative port. ¹⁰¹⁾ ¹⁰²⁾

Just leave it capped. It has no practical use.



¹⁰³⁾



¹⁰⁴⁾



¹⁰⁵⁾



106)



107)



108)



109)



110)



111)



112)



113)



114)



115)



116)



117)

(02BQ)

27029-86B.

Used on All 1986 FX Models.



118)



119)

(02BR)

27029-86B.

All 1987 FXR, Softail models, main jet 162, slow jet 50



120)



121)



122)

27029-88

Other numbers on body: (0695) and (F58A) (BH28) for 88-89 FLT, FXR and SOFTAIL models (except Cal.)

123)



124)



125)



126)



127)



128)



129)

(F58A)

27029-88.

88-89 FLT, FXR and SOFTAIL models.

(F59B)

27026-88A.

88-89 FLT, FXR and SOFTAIL models (Cal. and Swiss models only) ¹³⁰⁾



131)

(F20Q)



132)



133)



134)



135)

Accelerator Pump Pics



136)

Parts List

L1976 Keihin (butterfly) Carb		
27006-76	CARBURETOR REPAIR KIT	L1976
27153-76	CARBURETOR	L1976
27304-76	SCREW, choke cable bracket	L1976
27305-76	BRACKET, choke cable	L1976
27306-76	ADJUSTING SCREW, pump stroke	L1976
27307-76	SCREW, wire block	L1976
27308-76	PIN, float	L1976
27309-76	SCREW, float pin	L1976
27310-76	ROD, accelerator pump	L1976
27311-76	RUBBER CAP, accelerator pump	L1976
27312-76	O-RING	L1976
27313-76	SCREW, throttle stop	L1976
27314-76	SPRING, throttle stop screw	L1976
27315-76	ADJUSTING SCREW, low speed mixture	L1976
27319-76	SPRING, low speed mixture adjusting screw	L1976
27320-76	SCREW, throttle cable bracket	L1976
27321-76	BRACKET, throttle cable	L1976
27322-76	SPRING, throttle lever	L1976
27328-76	THROTTLE LEVER	L1976
27333-76	SPRING WASHER, throttle lever	L1976
27335-76	NUT, throttle lever	L1976
27336-76	O-RING	L1976
27337-76	FLOAT VALVE, with clip	L1976

27338-76	CLIP, float valve	L1976
27339-76	FLOAT	L1976
27340-76	MAIN NOZZLE	L1976
27348-76	LOW SPEED JET	L1976
27358-76	O-RING, bowl	L1976
27360-76	O-RING (2)	L1976
27361-76	DIAPHRAGM, accelerator pump	L1976
27362-76	SPRING, diaphragm	L1976
27364-76	ACCELERATOR PUMP HOUSING	L1976
27366-76	SCREW (5)	L1976
27367-76	SCREW	L1976
27368-76	CLIP, overflow hose	L1976
27369-76	HOSE, overflow	L1976
27395-76	BOWL	L1976
27397-76	MAIN JET, 1.55 mm. (1001-104-155)	L1976
27398-76	MAIN JET, 1.50 mm. (1001-104-150)	L1976
27399-76	MAIN JET, 1.45 mm. (1001-104-145)	L1976
27400-76	MAIN JET, 1.35 mm. (1001-104-135)	L1976
27401-76	MAIN JET, 1.30 mm. (1001-104-130)	L1976
27594-76	INLET FITTING	L1976
27615-76	MAIN JET, 1.40 mm. (1001-104-140)	L1976

Helpful Links

Video:

Here are some excellent videos of servicing the pre-CV Keihin Butterfly carbs: ¹³⁷⁾

- [#1 - Tips and tricks.](#)
- [#2 - Disassembly and cleaning.](#)
- [#3 - Assembly and testing.](#)
- [#4 - Testing and start-up.](#)

[Go To Technical Menu](#)

¹⁾ ²⁾

HD Sportster Parts Catalog XLH/XLCH 99451-78B

³⁾

1979 Harley Davidson Sportster Parts Catalog

⁴⁾

1979-1985 HD XL Parts Catalog pg 23

5) 6)

1979-1985 HD XL Parts Catalog pg 25

7)

1979-1985 HD XL Parts Catalog pg 27

8)

1977 HD XLCR Parts Catalog pg 57

9)

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<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/ironhead-sportster-motorcycle-talk-1957-1985/152553-keihin-carb?highlight=keihin+bowl#post3246682>

10) 15)

Hopper

<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/ironhead-sportster-motorcycle-talk-1957-1985/55576-how-to-tune-keihin-carbs-links/page2?t=276157&page=2>

11)

HD Sportster Parts Catalog (99451-78B)

12) 13)

HD XLH XLCH-1000 Parts Catalog (99451-78B)

14)

HD Parts and Accessories Bulletin dated February 8, 1977

16)

HD Sportster Parts Catalog pg 17

17)

HD Service Letter #ML-131 dated September 14, 1979

18)

HD Service Bulletin #M-905 dated August 26, 1985

19)

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1979 HD Sportster Parts Catalog -79 pg 17

32) 40)

1980 HD Sportster Parts Catalog -80 pg 17

33) 42)

1979-1985 HD Sportster Parts Catalog -85 pg 23

34)

photo courtesy of Ebay seller, Robison Motorcycles [Link to Ebay Store](#)

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41)

1981 HD Sportster Parts Catalog -81 pg 19

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1981 HD Sportster Parts Catalog -81 pg 21

44) 45) 48)

1983 HD Sportster Parts Catalog -83 pg 23

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49) 50)

1984 HD Sportster Parts Catalog -84 pg 27

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52) 53) 54)

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1971-1984 HD FX Model Parts Catalog pg 31

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1941-1984 FL Model Parts Catalog pg 39

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1970-1978 HD Electra Glide and Super Glide Parts Catalog pg 17

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