

HSR Series

Fox Distibuting INC

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HSR Series Carbs

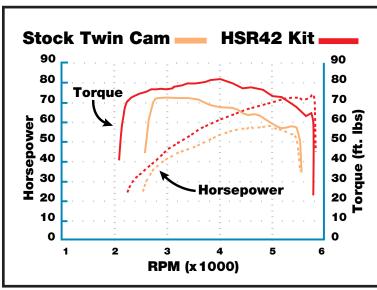
42/45/48

Smoothbore Carburetors

Going fast has never been so easy! The number one performance carburetor for Harley-Davidsons and American Big Twins now slips onto any late model Harley-Davidson using the original throttle cables. Mikuni's Twin Cam, Big Twin and Sportster / Buell Easy Kits even use Harley's existing manifold, choke cable and air filter.

Keep a Harley's stock factory look and fit with better throttle response, improved acceleration, increased power and torque. Mikuni's smoothbore, flatslide throttle with roller bearings, and accelerator pump technology delivers peak performance from idle to Wide Open Throttle.

Available in 42. 45. and 48mm throttle bores for use with stock, mild, and highly modified engines.





Bolt On a 25% Power and **Torque Increase!**

Mikuni's Easy Kit dramatically improves the performance of Harley-Davidson's Twin Cam engine and delivers unmatched throttle response and acceleration! Used with a Screamin' Eagle Air Filter and an aftermarket exhaust system like the optional Screamin' Eagle Mufflers, the HSR42 Easy Kit adds 25% more horsepower to the output of Harley's Twin Cam motor. Maximum horsepower is increased from 57.8 to 72.2 hp, and maximum torque from 71.4 to 80.7 ft/lbs.

HSR Kits



Total Kits 42/45mm

Go for high flow! The complete Total Kit includes a special manifold, rubber flange and high flow air filter. Total Kits allow fitment of a HSR42 or 45mm carburetor to any Big Twin Evolution or Twin Cam model. Our high flow filter supports 100 horsepower with no loss from filter restriction. (Manifold clamps, seals are not included in the kit).



Carburetor kits not designated as C.A.R.B. exempt, are not legal for motor vehicles operated on public highways in the state of California or in other states and countries where similar anti-pollution laws may apply.

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42/45/48 Smoothbore Kits

Every Mikuni Carburetor Kit is an easy bolt-on application. Each HSR carburetor in the kit comes pre-jetted and ready to run!

Easy Kits 42/45mm Keep your stock look with our uniquely designed Easy Kit which uses your stock manifold and cables. Our special adapter retains your stock airbox or use the Screamin' Eagle performance air filter kit. California A.R.B. Legal Kits available for EVO Big Twin applications.

> Race Kits 48mm A real racing carburetor for monster motors. The new HSR48 delivers the highest airflow with accurate fuel metering for more power and precise throttle control. An extended main jet and larger needle valve assembly assure maximum fuel flow to very powerful

engines. Intended for use by experienced builders.

Sportster / Buell Kits

Mikuni offers two different HSR42 Kits for Sportsters and Buells. One kit, just for Sportsters includes a special airbox backing plate as shown to work with the stock oval cover and a Screamin' Eagle high flow replacement filter. The other kit, without the backing plate, works on Buells and Sportsters with an aftermarket performance air filter assembly.



HSR Applications



Mikuni HSR Series Carburetor Kits

HSR Carbs use stock Harley-Davidson throttle cables. The latest 42/45/48mm smoothbore carburetors from Mikuni install guickly using the original stock throttle cables. The HSR flatslide carb delivers excellent throttle response and control. The smoothbore allows the engine to reach its full power potential, so you accelerate and pass with confidence. You'll get good gas mileage and many years of dependable, carefree performance. These kits cover more models with fewer part numbers. Kits include instructions and hardware for each application.

Easy Kits for Sportsters, Big Twin and Twin Cam models

These kits are designed to work with your original Harley-Davidson intake manifold, choke cable, air cleaner and throttle cables. You can run other high performance air filters designed for the CV type carb by using the special adapter included in the kit.

- 42-7 1990 to 1999 1340 Big Twin Evo with stock CV type manifold. Includes 42mm carb. airbox adapter and chrome cover.
- 1999 to present Twin Cam, 1990 to '99 Big Twin Evo 42-18 Includes 42mm carb, air box adapter, instructions. Twin Cam and Evo engines require the use of an aftermarket air cleaner. Will not work with stock air box. 42-10
 - 1994 to 2004 Sportster 1200. Includes 42mm carb, with special air box back plate. Requires the use of the stock oval cover and a Screamin' Eagle high flow replacement fil-
- ter
- 42-11 1994 to 2006 Sportster 1200, Buell models. Must use with aftermarket performance air filter. 1999 to present Twin Cam, 1990 to '99 Big Twin Evo 45-5 Includes 45mm carb, air box adapter, instructions. Must use a H-D Screamin' Eagle Manifold Kit: Must use a H-D Screamin Lagio manual Nos. 29634-00 (HTTC), 29635-99 (TC), or 29636-99 (Evo)

Total Kits for Big Twin Evolutions & Twin Cam models

These kits are complete with everything needed for a total installation. Kits include an HSR 42mm or 45mm carburetor, new performance manifold, rubber flange, high flow air filter, chrome cover, chrome breather kit and mounting hardware. Stock throttle cables from 1990 and later models can be used. Note: 1984 to 1989 Evo models will need new cables from a similar 1990 to 1995 model.

HSR42 Kits 42-8

1984 to 1999 1340 Big Twin Evo. Includes breather kit #KHS-020 for 1993 and later models. Note: 1984 to 1989 models require cables from 1990 to 1995 model bikes.

42-19 1999 to present Twin Cam 88/95. Includes new breather kit #KHS-030 for Twin Cams. Note: Use your stock throttle cables.

HSR45 Kits 45-2

1984 to 1999 1340 Big Twin Evo. Includes a 45 mm big bore carburetor. breather kit #KHS-020 and a 45mm flange.

1984 to 1999 1340 Big Twin Evo. 45-3 Same as kit above without intake manifold. 45-4 1999 to present Twin Cam 88/95. Includes 45mm carb, breather kit #KHS-030, new

manifold with MAPS location and 45mm flange.

Big Twin Evo CA Legal Kits

These kits may be used in California when all stock original components are unchanged. Kits are exempt from emission laws when installed according to instructions.

| 42-6 | 1990 to 1998 1340 Big Twin Evolution models |
|------|---|
| | |

California.

sold in Includes 42mm C.A.R.B. carb, airbox adapter, A/C cover and instructions. C.A.R.B. exemption No. D-389-4.

Parts



Individual HSR42/45 Carburetors

For the performance engine builder needing the carburetor only for specific custom applications. Available in standard aluminum finish or the polished version. (Note: Choke cable is included. except on TM42-6 which will use stock choke cable from CV type carb).

| TM42-6 | HSR 42mm Carburetor, Standard finis |
|----------|-------------------------------------|
| TM42-6PK | HSR 42mm Carburetor, Polished vers |
| TM45-2K | HSR 45mm Carburetor, Standard finis |
| TM45-2PK | HSR 45mm Carburetor, Polished vers |

HSR Accessories

Crankcase Head-Breather Kits

For the installation of HSR Carburetor Kits using the Mikuni K&N high flow filter on Big Twins and Twin Cams.

banios, vent bolts and brackets.

KHS-020 To mount HSR42/45 carb and filter to Evo Big Twins, includes the new chrome banjos, vent bolts and brackets. To mount HSR42/45 carb and filter to Twin **KHS-030** Cam engine, includes the new chrome

Jet Assortment Kit for HSR

Jet Assortment Kits contain 44 pieces in a special jet box. Included are 2 ea. of a wide range of Main Jets, Pilot Jets, Needles, A/P Nozzles, Needle Clips, Needle Washers.



| KHS-025 | HSR42 Jet Kit with box, 44 piece ass |
|---------|--------------------------------------|
| KHS-045 | HSR45 Jet Kit with box, 44 piece ass |
| KHS-048 | HSR48 Jet Kit with box, 44 piece ass |

HSR42/45/48 Carb Rebuild Kits

All the necessary parts and gaskets to freshen up an HSR carb. Includes needle valve assembly, O-rings, gaskets, screws,

| KHS-016 | Rebuild Kit for HSR42/45 Carb with 4.3 | | |
|---------|---|--|--|
| | needle valve & exploded view instructions | | |
| KHS-031 | Rebuild Kit for HSR48 Carb with 4.5 | | |
| | needle valve & exploded view instruction | | |

HSR48 Race Kit, Standard 48-2 Standard cast alloy body, cadium fittings 48-2P HSR48 Race Kit. Polished Hand polished cast alloy body, chrome fittings

Race Kit 48mm for Big Motors

Designed for the serious race engine builder and externe street

motor enthusiast looking for more power. Recommended for

120ci engines or bigger with high flow heads and cams. Kits

(78mm bolt hole centers), choke cable, four main jets. Builder

include a 48mm smoothbore carb, rubber mounting flange

supplies manifold and appropriate air filter or velocity stack.

Uses stock Harley CV type cables.

Optional and Replacement Parts



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ns.

TM42/32

990-605-065

990-662-002 HS42/001K HS42/001-CHR-K HS42/002

HS42/003 HS42/018-42K

HS42/018-45K

HS42/061-45

HS42/061-45TC

HS42/062-42K

HS42/062-45K

HS42/062-48K

HS42/012

HS42/012-300

HS42/059 HS42/060 **KHS-028** KHS-029 KHS-032

Jetting Parts

High speed (main), low speed (pilot) jets, jet needles and accelerator pump nozzle for the HSR42/45/48 carburetors.

VM28/486-(size) N100.604-(size) **J8-8DDY01-**(size)

J8-8CFY02-(size) J8-8CFY15-(size) TM42/11-(size)

Pilot Jets. sizes 15 to 50 Main Jets, sizes 140 to 240 HSR42 Jet Needles, size 95, 96, 97 and 98, standard in HSR42 is 97 HSR45 Jet Needles same as above HSR48 Jet Needles same as above Accelerator Pump Nozzle, size

Chrome Carb Top 42/45 w/Mikuni

Chrome Carb Top 48 w/Mikuni logo

N124.063

KHS/039 KHS/040 KHS/043

KHS/044

KHS/042

Long Idle Cable Adjuster (standard). Spring not included. Choke Cable, enrichener. Air Box Adapter Kit, std. finish Air Box Adapter Kit. chrome finish Adapter Screws, use three per adapter. O-Ring Seal for airbox adapter. Rubber Flange Adapter, early 42mm black w/stainless steel clamp. Rubber Flange Adapter, early 45mm black w/stainless steel clamp. Intake Manifold for HSR42/45 mm, Evo style without hole. Intake Manifold for HSR42/45 mm, Twin Cam style with MAPS hole. Rubber Flange Adapter, 42mm black w/stainless steel clamp. Rubber Flange Adapter, 45mm black w/stainless steel clamp. Rubber Flange Adapter, 48mm black w/stainless steel clamp. Air Filter, K&N 2.5 inch. standard in kits, washable Air Filter, K&N 3.0 inch, high performance, washable Air Cleaner Cover, chrome w/cutouts Air Cleaner Cover. chrome wo/cutouts Chrome Carb Top 42/45 wo/Mikuni

Short Idle Screw Adjuster (optional). Uses standard spring.

50, 60, and 70, standard is 70. Accelerator Pump O-Ring Throttle Cables - early HSR 42/45

HSR42/45 Carb Kits from 1994 to1999 required Mikuni throttle cables. HSR42 carbs made after May 1999, and HSR45 made after March 2000 use stock Harley-Davidson cables. HS42/028-A Open (Throttle) Cable, 1970 to 1995, 38 inch screw-in type. HS42/029-A Close (Idle) Cable,

1970 to 1995, 38 inch screw-in type. Open (Throttle) Cable, 1970 to 1995, 47 inch screw-in type. Close (Idle) Cable. 1970 to 1995, 47 inch screw-in type. Open (Throttle) Cable, 1996 to present, 38 inch push-in type. Close (Idle) Cable. 1996 to present, 38 inch push-in type. KHS/041 Open (Throttle) Cable, 1996 to present, 47 inch push-in type. Close (Idle) Cable, 1996 to present, 47 inch push-in type.

HSR Replacement

HSR42/45/48 Parts PART NO. DESCRIPTION C5=0410-B Screw, Top Cover (HSR42 KHS-028/05 Screw, Top Cover (HSR48 1a. CW2=0414-B Screw, Top Cover (HSR42 2. З. 776-39005 Top Cover (42/45) HS42/081 Top Cover (HSR48) Зa. TM42/04 Gasket, Top Cover 4. BS32/126 E-Ring, Jet Needle 5. 826-03002 Washer, Jet Needle 6. J8-8DDY01-97 Jet Needle (42) 7 -95 Jet Needle (45) 7a. J8-8CFY02-97 -96 7b. J8-8CFY15-97 Jet Needle (48) -97 Lever, T.V. (42/45) 8. TM42/03 -98 Lever, T.V. (HSR48) 8a. TM42/08-1A B40I/56 E-Ring, Link Lever 9. 10. B40l/10 Packing, Link Lever 11. 834-23041 Pin, Link Lever 12. TM42/08-3.0 Throttle Valve (Slide) 13. 739-13002 Screw, Needle Retainer 14. TM42/16 Clip, Needle Retainer 15. TM42/13 Sealing Ring, T.V. (42/45) Sealing Ring, T.V. (48) 15a. TM48/04 Seal, Throttle Valve 16. TM42/10 Pulley, Cable Bracket 17. 925-98006 E-Ring, Cable Bracket 18. 53974 19. TM42/51 Bracket Assíy, Cable 19a. TM42/53 Bracket Assív, Sportster Bolt. Bracket 20. B3=0520-B 21. VM28/204 Spacer, Bracket 22. TM42/38 Plate, Lock Tab 23. C2=0514-B Screw 640-12001 Starter Nut, Choke 24. Spring, Starter Plunger VM14/241 25. 26. N189.192 Starter Plunger Bodv (HSR42/45) 27. TM42/06 27a. TM48/02- Body (HSR48) Seal, Spigot Body 28. 616-94029 29. 925-19011 Ring (Steel) Lever, A/P 30. TM42/43 31. N138.019 Pin, Throttle Lever TM42/48 Lever, Throttle 32. M12F/46-BB 33. Spring, A/P MC-0316-B Screw, A/P 34 35. TM42/47 Spring, A/P TM42SS1/01-0 Mixing Body (42/45) 36. 36a. TM48SS1/01 Mixing Body (48) 37. B36/95 Packing, Shaft (Plastic) Adjusting Screw, A/P 38: TM42/36 B30/205 ORing, A/P Screw 39. TM40/89 Bolt 40. 40a. TM42/17 Plate, Lock Tab for Shaft 41. BN38/43 Pin, Return Lever Lever, Return 42. TM42/46 B30/1069 Adjusting Screw, Throttle 43. 44. N3=04 Nut, Throttle Stop 45. TM42/19 Spring, Throttle Return 700-15012 46. Shaft, Throttle TM42/15 Plate, Fuel Joint Retainer 47. C2=0410 Screw, Fuel Joint 48. 49. 604-26014 Screw, Pilot Air 49a. VM20/584 Optional Short Screw, Pilot Air Spring, Pilot Air 50. N133.206 51. VM12/205 Washer, Pilot Air

| List | 52. N133.037 53. TM40/27 54. KV/10 55. B30/398 56. VM22/138 57. 730-09018 58. 925-15001 59. TM42/32 59a. 990-605-065 60. BS30/97-00 61. 784-430000-Y-6 62. TM42/11-70 63. N124.063 64. VM28/486-25 65. TM42/12 65a. TM42/12-1A 66. N100.604-160 67. 616-33003 68. VM13/216 69. 786-27001-4.2 69a. 786-27002-1A-4.5 70. 859-32027 71. BV26/22 72. C2=0410 73. 616-94028 74. TM42/05 75. N122.028 76. VM28/254 77. TM32/41 77a. TM32/41-1D 78. C2=0412-B 79. TM36/44-1A 80. TM36/64 81. TM36/60 82. VM14SC13/89 83. N198.063 | ORing, Pilot Air Fuel Joint O-Ring, Fuel Joint Packing, Idle Adjuster Washer, Idle Adjuster Spring, Idle Adjuster Ring, Idle Adjuster Idle Adjuster (Long) Idle Adjuster (Short) Air Jet (Blank) Needle Jet (723) Nozzle, Accel, Pump → O-Ring, A/P Pilot Jet (Sportster - 20) Extender, Main Jet (42/45) Extender, Main Jet (42/45) Extender, Main Jet (48) Main Jet (45-175, 48-190) O-Ring N.V. Screw, N.V. Retainer Needle Valve Assbly (42/45) Needle Valve Assbly (48) Float Assíy Pin, Float Screw, Float Pin Packing, Float Bowl Float, Chamber Body Hose, Overflow O-Ring, Drain Plug Drain plug (42/45) Drain plug (42/45) Drain plug (48) Screw, Flt Bowl, short Rod, A/P Boot, A/P Rod Plunger, A/P Spring, A/P Rubber Cap, Purge Port |
|------|---|---|
| | | |
| | J8-8DDY01-96 J8-8CF J8-8DDY01-97 J8-8CF | R45 HSR48 Y02-95 J8-8CFY15-95 Ric Y02-96 J8-8CFY15-96 Ric Y02-97 J8-8CFY15-97 Sto Y02-98 J8-8CFY15-98 Lea |
| | AcceleratorPump No.TM42/11-70StdTM42/11-60LeanerTM42/11-50Leaner | zzles: |
| | | lies: HSR48) HSR42/45) |

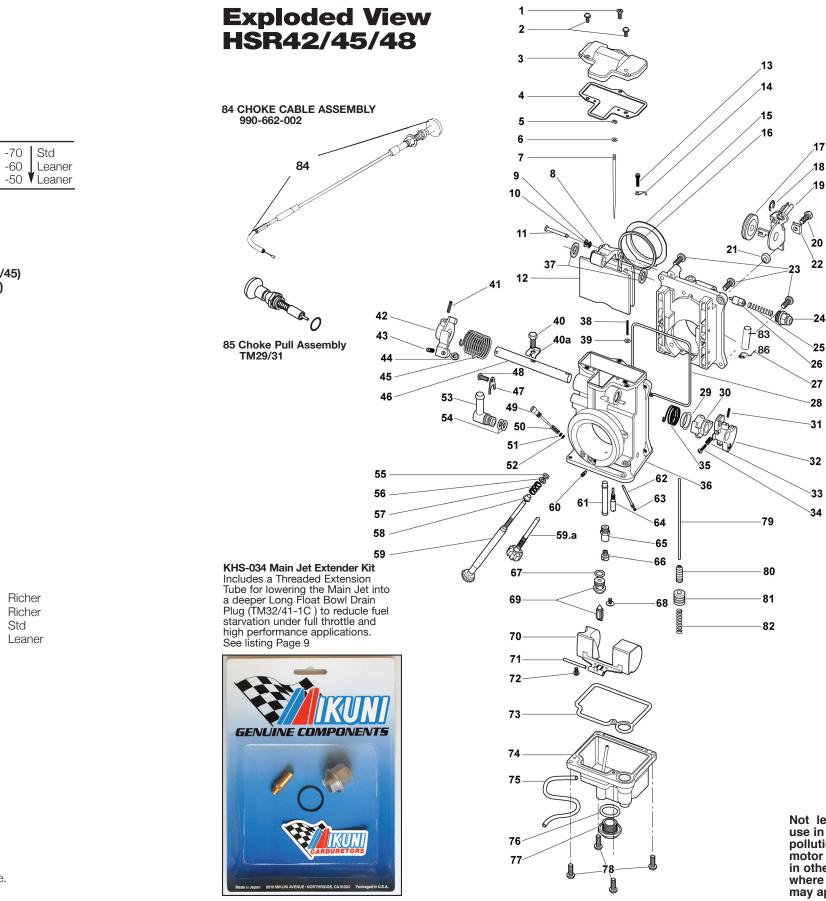
/86-2/001-4.2 Sta (HSR42/45) 786-27001-3.5 Smaller 786-27001-2.3 Pressure feed only

Rebuild Kit:

HSR42/45: KHS-016 KHS-031 HSR48:

NOTES:

1. — Lined through Part Numbers are not available. 2. Parts in **Bold** are included in Rebuild Kits



Parts

Not legal for sale or use in California on pollution controlled motor vehicles, or in other states where similar laws may apply.