



Mikuni's HSR42, HSR45 and HSR48 Smooth Bore Carburetors are the finest motorcycle carburetors made today. They give superb throttle response and deliver all the air flow needed for any level of Harley performance.



Going fast has never been so easy. The number one performance carburetor for all Harley-Davidsons and American big twins now slips onto any late model Harley using the original throttle cables. Mikuni's Big Twin and Sportster/Buell Easy Kits even use your bike's existing manifold, choke cable and air filter. Keep your 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 WFO. Available in 42, 45, 48mm throttle bores for use with stock, mild, and highly modified engines



Bolt On a 25% Power and Torque Increase!

Every Mikuni Carburetor Kit is designed to be an easy bolt-on application. Each HSR carburetor in the kit comes pre-jetted and ready to run!. They also use stock Harley-Davidson throttle cable.

Modified Harley or Harley-based engines tend to fall into one of three categories:

Modified stock — This engine typically has stock cylinder heads, a high flow air cleaner, high flow mufflers, perhaps a bolt-in cam and a Mikuni HSR42 carburetor, we suggest an "Easy Kit".

Highly modified — A hotter cam, professional cylinder head port work, a more specialized exhaust system, high compression pistons and a Mikuni HSR45 carburetor, we suggest a "Total Kit".

All-out ground pounder — Highly modified heads, a displacement increase, either by way of fitting larger pistons, a stroker kit or both. This engine is more likely to be a special engine, built from the ground up to be stronger and to process more air than even a highly modified Harley motor. This is the sort of motor that should have the HSR48.



EASY KITS.

Keep your stock look

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.



Easy kits for Sportsters, Big Twin and Twin Cam Models

1990 to 1999 - 1340cc Big Twin Evolution with stock CV type manifold.

TCI #HSR42-7-K

Includes 42mm carb, airbox adaptor and chrome cover.

1999 to present Twin Cam models

TCI #HSR42-18-K

Includes 42mm carb, air box adaptor and instructions. Use the stock oval chrome cover.

1994 to 2003 Sportster 1200

TCI #HSR42-10-K

1994 to 2003 Sportster 1200 (Buell Models)

TCI #HSR42-11-K

TOTAL KITS.

For the performance you've been craving

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 K&N Filter, chrome cover, chrome breather kit and mounting hardware.



Stock Throttle Cables from 1990 and later models can be used.

Note: 1984-89 Evo models will need new cables from similar 1990-95 model

Total Kits for Big Twin Evolutions and Twin Cam Models

Stock throttle cables from 1990 and later Big Twins can be used. Note: 1984 to 1989 models will need new cables from a 1990 to 1995 model.

HSR 42 kits

1984 to 1999 1340 Big Twin Evo.

TCI #HSR42-8-K

Includes breather kit #KHS-020 for 1993 and later models. Note: 1984 to 1989 models require cables from 1990 to 1995.

1999 to present Twin Cam 88/95

TCI #HSR42-19-K

Includes new breather kit # KHS-030 for Twin Cams. Note: Use your stock throttle cables

HSR 45 kits

1984 to 1999 1340 Big Twin Evo.

TCI #HSR45-2-K

Includes 45mm big bore carb, Kit #KHS-020 breather and a 45mm flange

1984 to 1999 1340 Big Twin Evo.

TCI #HSR45-3-K

Same as kit above without intake manifold

1999 to present Twin Cam 95.

TCI #HSR45-4-K

Includes 45mm big bore carb, breather kit #KHS-030, new manifold with MAPS location and 45mm flange.



HSR48 - For the baddest of the Bad.

Mikuni's new HSR48 is a special version of the proven HSR42 carburetor. Its purpose is to provide maximum airflow for the most demanding high performance engines.

The amount of power any engine can deliver is directly related to the volume of air it can use in a given time together with its efficiency in using that air. Everything else being equal, more air equals more power.

Leaving port and combustion chamber design aside, air flow through an engine can be enhanced or limited by anything it must pass through. A restrictive air cleaner assembly, too small carburetor, restrictive intake manifold and a restrictive or poorly designed exhaust system can (each or all) limit power output. The HSR48 was developed to deliver additional air flow to highly developed engines.

There is little to be gained from installing the HSR48 on an engine with stock cylinder heads or one that is going to be fitted with an exhaust system more suited to looking good than passing gas. The number of bolt-on performance options becomes very narrow when one attempts to get their engine above 100 (or so) Horsepower. We advise that you carefully consider the suitability of other performance components when you consider installing the new HSR48.

Our HSR48 is slightly larger than either the HSR42 or the HSR45. It is taller and the spigot (engine side) is larger in diameter. This may result, with some installations, in interference problems with chassis parts.

Air Flow:

The stock Harley carburetor flows about 185 CFM (cubic feet per minute) when flow is measured at a pressure difference of 12-inches of water. All the Mikuni HSR series flow considerably more:

Stock: 185 CFM

HSR42: 213 CFM

HSR45: 237 CFM

HSR48: 270 CFM

If carburetor air flow were the only factor, the HSR48 could deliver almost 50% more power than the stock carburetor. It isn't, of course, but a 50% gain could not be realized without a high flow carburetor.

If you think your motor is a candidate for an HSR48 in standard or polished carburetor, contact us at TCI Toll free 800-661-9438

Mikuni HSR INDIVIDUAL CARBURETORS

Going fast has never been so easy. The number one performance carburetor now slips onto your Harley using the original throttle cables. Mikuni's Big Twin and Sportster/Buell Easy Kits even use your bike's existing manifold, choke cable and air filter. Keep your Harley's stock factory look and fit, with better throttle response, improved acceleration, increased power and torque. Mikuni's smoothbore, flatslide with roller bearings, and accelerator pump technology delivers peak performance from idle to Wide Open Throttle.

These carburetors are for all Harley Davidson owners and are available in standard aluminum finish or the chrome and polished version.

NOTE: Choke cable is included except in the TM42-6, which will use stock cable from CV type carb.

TM42-6	HSR 42 mm Carb.	Standard finish
TM42-6P	HSR 42 mm Carb.	Polished finish
TM45-2	HSR 45 mm Carb.	Standard finish
TM45-2P	HSR 45 mm Carb.	Polished finish
TM48-2	HSR 48 mm Carb.	Standard finish
TM48-2P	HSR 48 mm Carb.	Polished finish



THROTTLE CABLES for HSR

HSR42/45 Carb Kits sold from 1994 to 1999 required special Mikuni throttle cables. HSR42 carbs manufactured after March 1999, and HSR45 manufactured after March 2000 use stock Harley-Davidson cables.

		HS 40 Part No.	HSR42/45/48 Part No.
1995 and Earlier	Standard Length (38") Open	RS36/34-A	HS42/028-A
"	Standard Length (38") Close	RS36/35-A	HS42/029-A
"	Longer Length (47") Open	RS36/34/6-A	KHS/039
"	Longer Length (47") Close	RS36/35/6-A	KHS/040
"	Shorter Length (34") Open	RS36/34-4-A	
"	Shorter Length (34") Close	RS36/35-4-A	
1996 and Later	Longer Length (47") Open		KHS/041
"	Longer Length (47") Close		KHS/042
"	Standard Length (38") Open		KHS/043
"	Standard Length (38") Close		KHS/044

Note: Open=Throttle / Close=-Idle

MIKUNI HSR OPTIONAL & REPLACEMENT PARTS

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.

KHS-010

- To mount HS40 carb and air filter, includes breather bolts and brackets.

KHS-020

- To mount HSR42/45 carb and filter to Evo Big Twins, does not include Z-brackets. (Note: Z-brackets are found in the Evo HSR Carb Kits.)

KHS-030

- To mount HSR 42/45 carb and filter to Twin Cam engine, includes the new chrome banjos, vent bolts and brackets.

Jet Assortment Kit for HSR42

KHS-025

This jet assortment kit contains 44 pieces in a special jet box. Included are:

- 2 each - 150 through 170 main jets
- 1 each -95, -96 and -97 needles
- 2 each #60 a/p nozzles
- Needle clip and washers.
- 2 each - 20 through 32.5 pilot jets



Accelerator Pump Nozzle

TM42/11-(SIZE)

- 50 Leaner
- 60 Leaner
- 70 Std

Needle Valve Assemblies

786-27001-4.2

HSR 42/45 - Standard

786-27001-2.3

HSR 42/45 - Pressure feed only

Pilot Jet

VM28/486--(SIZE)

Size range 50 to 195 (2.5 increments)

Main Jet

N100/604-(SIZE)

Size range 50 to 197.5 (2.5 increments)

Size range 200 to 220 (5 increments)

Size range 230-240 (10 increments)

Jet Needle

J8-8DDY01-(SIZE)

HSR 42 jet needles

J8-8CFY021-(SIZE)

HSR 45 jet needles

- 95 Richer
- 96 Std.
- 97 Leaner
- 98 Leaner

The Following Mikuni Accessories are available.

DESCRIPTION	HS 40	HSR 42	HSR 45	HSR 48
Chrome Carb Cap with Mikuni Logo		KHS-029	KHS-029	
Chrome Carb Cap No Logo		KHS-028	KHS-028	
Carburetor Rebuild Kit (includes gaskets & needle valve)	KHS-001	KHS-016	KHS-016	KHS-031
K & N Mikuni Air Filter (standard size 2.5")	RS36/25-200	HS42/012 (2.5")	HS42/012 (2.5")	HS42/012 (2.5")
Air Cleaner Cover Chrome (OEM / cut-outs)		HS42/059	HS42/059	HS42/059
Air Cleaner Cover Chrome (Aftermarket / No cut-outs)	RS36/24-200C	HS42/060	HS42/060	HS42/060
Air Cleaner Cover Black (Aftermarket / No cut-outs)	RS36/24-200B			
Shovelhead Manifold (10mm Drop)	RS36/48	HS42/020-42	HS42/020-42	HS42/020-42
Rubber Flange Adapter, Round inlet (with clamp**)	KHS-004	HS42/018-42	HS42/018-45	HS42/018-48
Rubber Flange Adapter, Oval inlet (with clamp**)		HS42/062-42	HS42/062-45	
**Stainless Clamp for Rubber Flange	RS36/02-17	TMX/002-32	TMX/002-32	TMX/002-32
Harley Manifold Spigot Adapter	MK-413			
Push/Pull Twist Throttle Assembly	RS36/59	RS36/59	RS36/59	RS36/59
Idle Screw Adjuster - Short(optional) - Use spring from stock idle cable.		990-605-065	990-605-065	990-605-065
Idle Cable Adjuster -Standard - Does not include spring.		TM42/32	TM42/32	TM42/32
Choke Cable, Enricher	990-662-001	990-662-002	990-662-002	990-662-002
Air Box Adapter (mount to back plate		HS42/001	HS42/001	
Adapter Screws (Use three per adapter)		HS42/002	HS42/002	
O-Ring Seal for Air box Adapter		HS42/003	HS42/003	

EXPLODED VIEW HSR42/45/48 CARB

Parts Breakdown for New Carburetors using Stock Cables

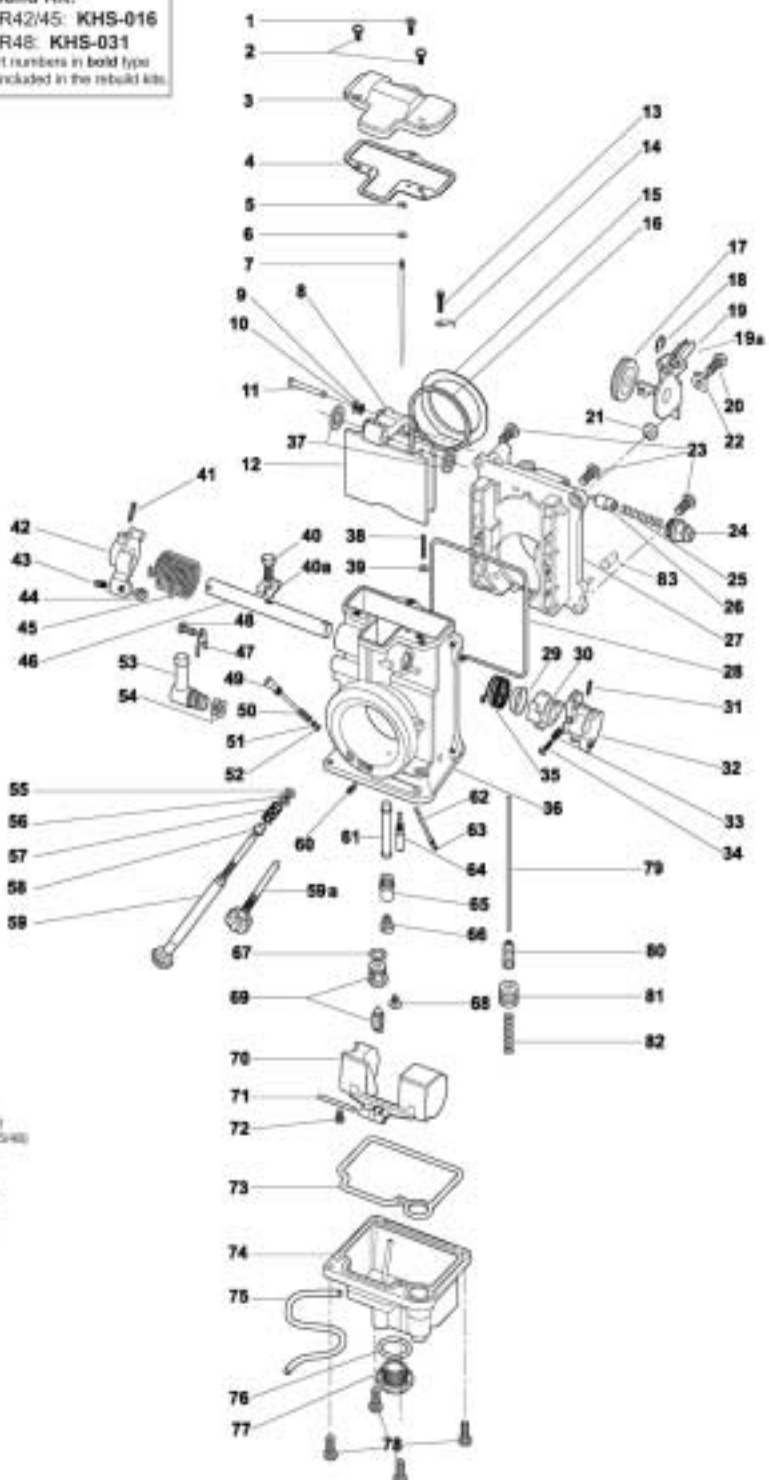
No. Part No.

- 1. C2-0419-B
- 2. CW2-0414-B
- 3. 776-38005
- 3a. 444-776-044-
- 4. TM4204
- 5. **HS32126**
- 6. **826-63002**
- 7. J8-820101-67
- 7a. J8-820102-67
- 8. TM4203
- 8a. ~~TM4204-1A~~
- 9. 840156
- 10. 840116
- 11. 834-23041
- 12. TM4208-3.0
- 13. 739-13002
- 14. TM4216
- 15. ~~TM4215~~
- 15a. ~~TM4205~~
- 16. TM4215
- 17. 825-58306
- 18. 83974
- 19. TM4251
- 19a. TM4253
- 20. 83-0620-B
- 21. VM26204
- 22. TM4238
- 23. C2-0514-B
- 24. 843-12001
- 25. VM14241
- 26. N189-102
- 27. ~~TM4206~~
- 27a. ~~TM4205~~
- 28. 815-84029
- 29. ~~826-48014~~
- 30. TM4243
- 31. N136-018
- 32. TM4248
- 33. M12F46-8B
- 34. MC-0318-B
- 35. TM4247
- 36. ~~TM4255A/9148~~
- 36a. ~~TM4255A/9148~~
- 37. 836055
- 38. TM4236
- 39. 830205
- 40. TM4269
- 40a. TM4217
- 41. 820843
- 42. TM4246
- 43. ~~8264069~~
- 44. N3-04
- 45. TM4219
- 46. 790-15012
- 47. TM4215
- 48. C2-0419
- 49. 804-26014
- 50. N133-206
- 51. VM12005
- 52. N133-007
- 53. TM4227
- 54. N178
- 55. 830366
- 56. VM220136
- 57. 730-09016
- 58. 825-15301
- 59. TM4232
- 59a. 890-695-065
- 60. 863097
- 61. 784-430006/14
- 62. TM4211-70
- 63. **N126-063**
- 64. VM26486-26
- 65. ~~TM4219~~
- 65a. ~~TM4219-1A~~
- 66. N100-804-size
- 67. **816-33000**
- 68. VM13216
- 69. 786-27901-4.2
- 69a. 786-27902-1A-4.5
- 70. 853-32027
- 71. 8V2622
- 72. C2-0413
- 73. 816-84026
- 74. TM4209
- 75. N122-008
- 76. VM26204
- 77. TM3241
- 77a. ~~TM4219-1B~~
- 78. C2-0413-B
- 79. TM3644-1A
- 80. **TM3664**
- 81. TM3665
- 82. VM145C13/83
- 83. N196-003

DESCRIPTION

- Screw, Top Cover
- Screw, Top Cover (2)
- Top Cover (42/45)
- Top Cover (48)
- Gasket, Top Cover
- E-Ring, Jet Needle
- Washer, Jet Needle
- Jet Needle (42)
- Jet Needle (45/48)
- Lever, T.V. (42/45)
- Lever, T.V. (48)
- E-Ring, Link Lever
- Raising, Link Lever
- Pin, Link Lever
- Throttle Valve (Slide)
- Screw, Needle Retainer
- Clip, Needle Retainer
- Sealing Ring, T.V. (42/45)
- Sealing Ring, T.V. (48)
- Seal, Throttle Valve
- Pulley, Cable Bracket
- E-Ring, Cable Bracket
- Bracket Ass'y, Cable
- Bracket Ass'y (Sportster)
- Soil, Bracket
- Spacer, Bracket
- Plate, Lock Tab
- Screw
- Starter Nut, Choke
- Spring, Starter Plunger
- Starter Plunger
- Body (42/45)
- Body (48)
- Seal, Spigot Body
- Ring (Steel)
- Lever, A/P
- Pin, Throttle Lever
- Lever, Throttle
- Spring, A/P
- Screw, A/P
- Spring, A/P
- Mixing Body (42/45)
- Mixing Body
- Packing, Shaft (Plastic)
- Adjusting Screw, A/P
- O-Ring, A/P Screw
- Soil
- Plate, Lock Tab
- Pin, Return Lever
- Lever, Return
- Adjusting Screw, Throttle
- Nut, Throttle Stop
- Spring, Throttle Return
- Shaft, Throttle
- Plate, Fuel Joint Retainer
- Screw, Fuel Joint
- Screw, Pilot Air
- Spring, Pilot Air
- Washer, Pilot Air
- O-Ring, 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 (72)
- Needle, Assot Pump
- O-Ring, A/P
- Pilot Jet
- Extender, Main Jet (42/45)
- Extender, Main Jet (48)
- Main Jet
- O-Ring, N.V.
- Screw, N.V. Retainer
- Needle Valve Ass'y (42/45)
- Needle Valve Ass'y (48)
- Floaf Ass'y
- Pin, Floaf
- Screw, Floaf Pin
- Packing, Floaf Bowl
- Floaf, Chamber Body
- Howl, Overflow
- O-Ring, Drain Plug
- Drain Plug (42/45)
- Drain Plug (48)
- Screw, Floaf Bowl (short)
- Floaf, A/P
- Soil, A/P Rod
- Plunger, A/P
- Spring, A/P
- Rubber Cap, Purge Port

Rebuild Kit:
HSR42/45: KHS-016
HSR48: KHS-031
 Part numbers in bold type are included in the rebuild kits.

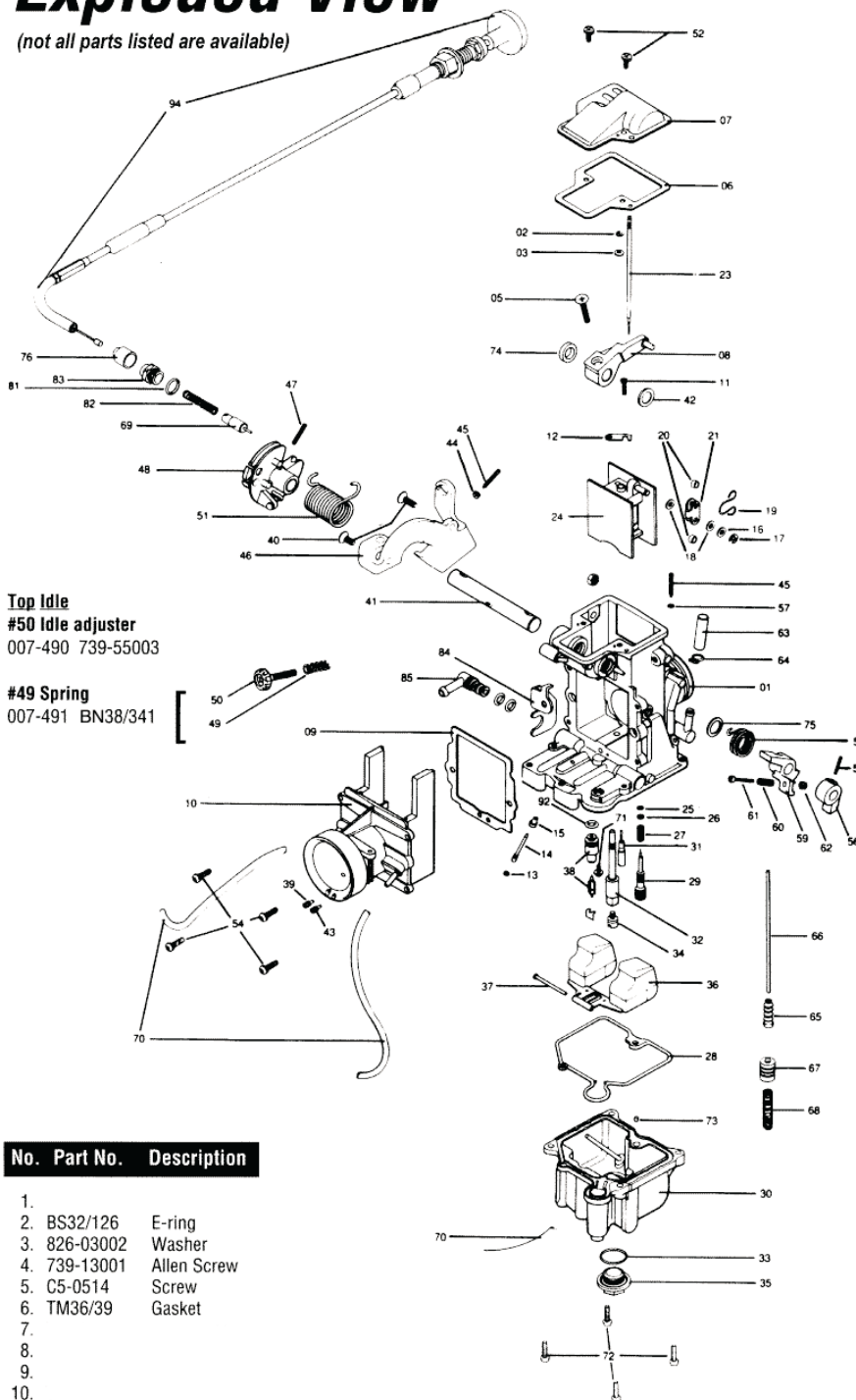


NOTE:
 Part numbers with lines through them are not available.

MIKUNI HS40 & TM36-68 & TM40-6

Exploded View

(not all parts listed are available)



Top Idle
#50 Idle adjuster
 007-490 739-55003

#49 Spring
 007-491 BN38/341

No.	Part No.	Description
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1.		
2.	BS32/126	E-ring
3.	826-03002	Washer
4.	739-13001	Allen Screw
5.	C5-0514	Screw
6.	TM36/39	Gasket
7.		
8.		
9.		
10.		
11.		
12.		
13.	N124.063	O-ring, Nozzle
14.	TM36/43	Pump, Nozzle

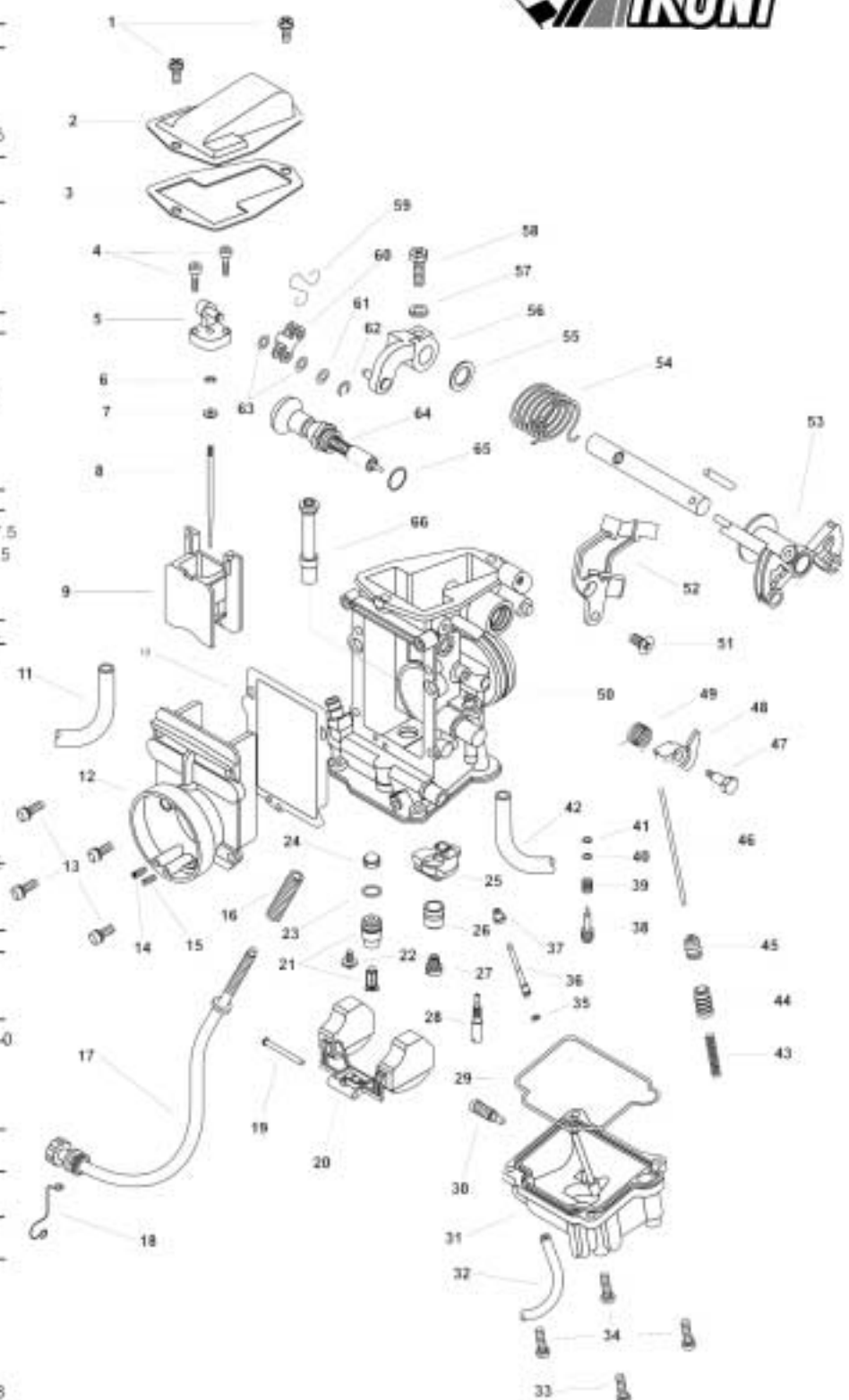
No.	Part No.	Description
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9.	TM36/42	Funnel Gasket
15.	TM29/14	Plug, Nozzle
16.	M10/56	Washer
17.	BSW20/70	E-ring
18.	B401/10	Packing
22.	TM36/54	Conn. Plate
23.	9DJY01	Jet Needle
24.	TM40/81	Throttle Valve
25.	N133.037	O-ring
26.	VM12/33	Washer
27.	N133.206	Spring
28.	619-94021	O-ring, Float Bowl
29.	604-26003	Screw
30.	TM40/12	F.C.B.
31.	VM28/486	Pilot Jet
32.	784-13002	Needle Jet
33.	VM28/254	O-ring
34.	N100/604	Main Jet
35.	TM32/41	Drain Plug
36.	659-32011	Float Ass'y.
37.	VM30/160	Pin, float
38.	786-36007	3.8 N.Valve Ass'y
39.	BS30/97	Main Air Jet (plugged)
40.	C5-0512-B	Screw
41.		
42.		
43.	BS30/97	Pilot Air Jet
44.	N2-03-B	Hex Nut
45.	TM36/48	Adj. Screw
46.	TM40/14	Bracket
47.	N138.019	Pin
48.	TM40/23	Lever Ass'y.
49.	N150.025	Spring Idle Adjust
50.	TM40/91	Adjuster, idle (Side Idle Only)
51.		
52.	CW2-0408	Screw
54.	VM38/133	Screw
55.	BN38/43	Pin
56.	TM36/16	Lever
57.	B30/205	O-ring
58.		
59.	TM36/17	Lever
60.	M12F/46a	Spring
61.	MC-0316	Screw
62.	N3-03-B	Hex Nut
63.	N148.013	Cap
64.		
65.	TM36/64	Cap
66.	TM36/44	Rod
67.	TM36/60	Plunger
68.	VM14SC13/89	Spring
69.	VM38/148	Plunger
70.	888-23026	Hose
71.	VM13/216	Screw
72.	C2-0412-B	Screw
73.	VM17/1002	Stir, Jet
74.		
75.		
76.	VM12/43	Cap, Starter Cable
81.	N138.198	O-ring
82.	VM16/42	Spring Starter
83.	640-12001	Guide Holder
84.		
85.	TM40/27	Inlet, Fuel
92.	KV/10	O-ring N. Valve
94.	990-662-001	Choke Cable Ass'y.
94B.	TM40/07	Choke Knob

TM33 SERIES CARBS



No.	Description	Part Number
1.	Screw, Top Cover	CW2-0410
2.	Top Cover	TM29/16a
3.	Gasket, Top Cover	TM29/17
4.	Screw, Joint Assy	700-13661
5.	Joint Assy	TM29/71
6.	E-Ring	VM20/369
7.	Packing	VM26/315
8.	Jet Needle	J8-5FP98-3
9.	Throttle Valve	832-38007-1.5
10.	Gasket, Air Funnel	TM29/52
11.	Hose, Vent	VM34/105
12.	Air Funnel	TM33/32
13.	Screw, Air Funnel	VM38/133
14.	Pilot Air Screw	B530/97-1.1
15.	Main Air Jet	B530/97-0.7
16.	Spring, Idle Adjuster	730-07008
17.	Idle Adjuster	TM33/38
18.	Clip, Idle Adjuster	N169-169
19.	Pin, Float	VM30/160
20.	Float Assy	859-34003
21.	Needle Valve Assy	N133.200-1.8
22.	Screw, Valve Holder	VM13/218
23.	O-Ring, Needle Valve	KV/10
24.	Filter, Needle Valve	VM18/233
25.	Ring (nylon), Main Jet	TM33/36
26.	Ring (brass), Main Jet	VM18/166
27.	Main Jet	N100.604-127.5
28.	Pilot Jet	VM28/486-37.5
29.	O-Ring, Float Bowl	616-94012
30.	Drain Screw, Float Bowl	N133.363
31.	Float Bowl	TM33/77
32.	Hose, Overflow	888-23043-1F
33.	Screw (long), Float Bowl	C2-0416
34.	Screw (short), Float Bowl	C2-0414
35.	O-Ring, A/P Nozzle	N123.083
36.	A/P Nozzle	TM29/24
37.	Plug, A/P Nozzle	TM29/14
38.	Pilot Screw	N138.192
39.	Spring, Pilot Screw	N138.187
40.	Washer, Pilot Screw	VM12/33
41.	O-Ring, Pilot Screw	N133.037
42.	Hose, Vent	888-26020-1E
43.	Spring, A/P Plunger	730-04003
44.	A/P Plunger	TM29/18
45.	Cap, A/P Red	N160.048
46.	Red, A/P	TM33/46
47.	Bolt, A/P Lever	B30/397
48.	Lever, A/P	VM38/212
49.	Spring, A/P Lever	TM33/47
50.	Main Body	TM330090/01-0
51.	Screw, Throttle Bracket	C5-0510
52.	Throttle Bracket	TM33/33
53.	Bellcrank	TM33/44
54.	Spring, Throttle Return	TM24/21
55.	Packing, Throttle Shaft	B36/96
56.	Lever, Throttle	VM13/166
57.	Washer, Throttle Lever	W4-05
58.	Bolt, Throttle Lever	VM28/230
59.	Spring, Linkage Lever	VM33/49
60.	Plate, Linkage Lever	VM33/45
61.	Washer, Linkage Lever	M10/56
62.	E-Ring, Linkage Lever	BSW28/70
63.	Packing, Linkage Lever	B40/10
64.	Choke Assy	TM33/49
65.	O-Ring, Choke Assy	N138.198
66.	Needle Jet	784-24111-P-8



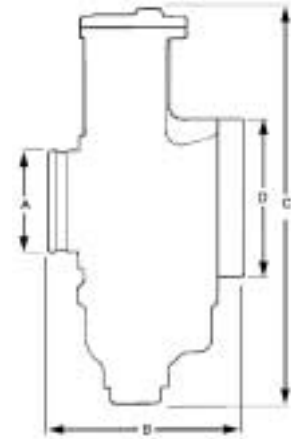


TM SERIES CARBURETORS



Mikuni Flat Slide Carburetor

- Provide significant performance improvements over older round slide carburetors.
- Air flows faster and smoother through the TM Series venturi due to the flat slide design and the jet blocks which help create smooth bore effect.
- The high velocity of the air flow means a stronger vacuum at the needle jet providing more precise metering and better throttle response.



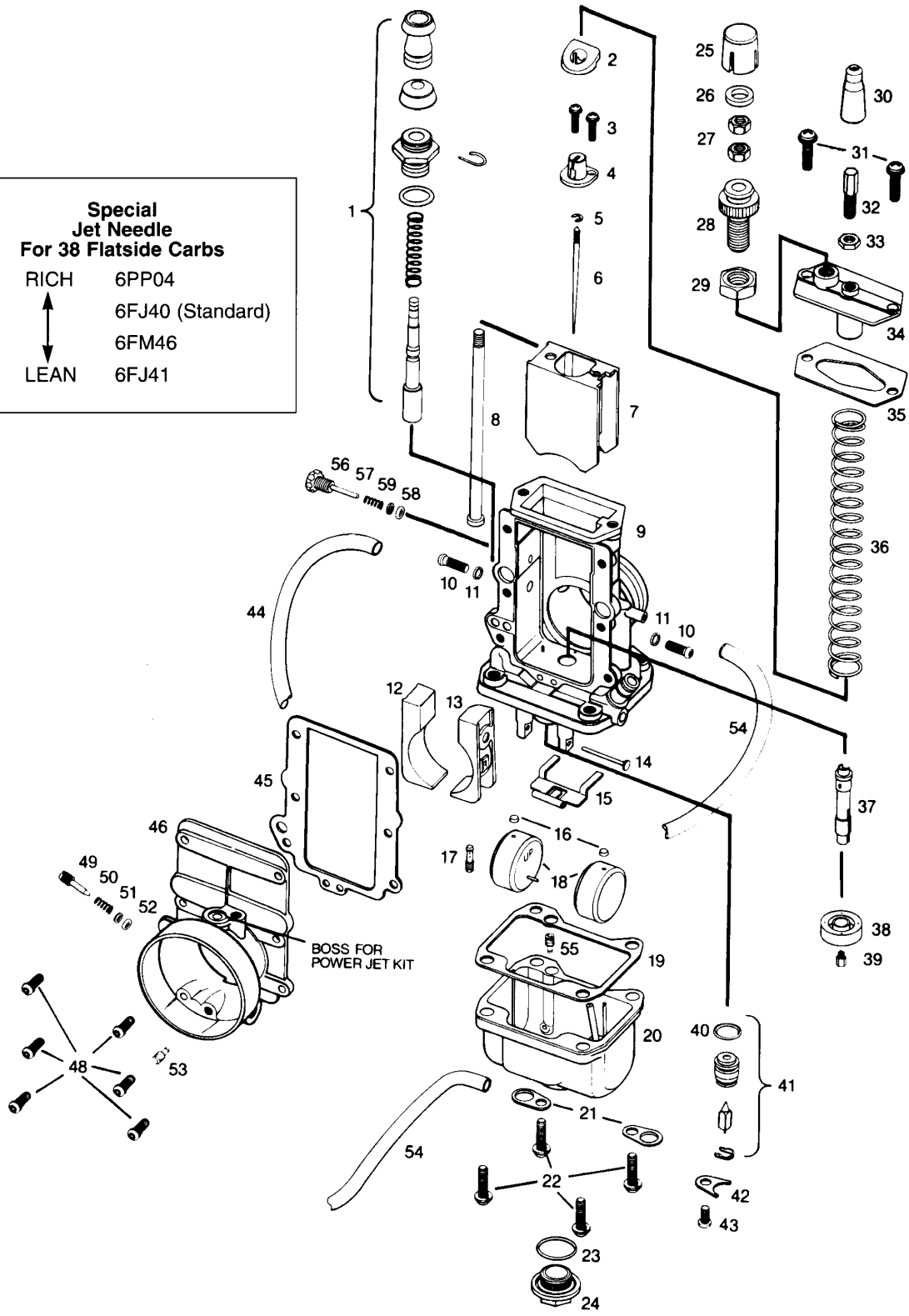
Model Number	VM28-418	TM32-1	TM34-2	TM36-68	TM33-8012	TM36-2	TM38-86	TM38-102	TM38-85	TM40-6
Dimension A	33	40		42	40	43		47		44
(mm) B	82	83		100	93	100				100
C	135	160		176	160	170				165
D	44	58		54	50	62				55
Total Width:	76	78		105		75				

Carb No.	Size (MM)	Main Jet	Pilot Jet	Needle Jet	Jet Needle	Throttle Valve	Air Jet
		4/042-	VM22/210-		J8-		
VM28-418	28	180	15	175 P-8	5DP39	832-33001 2.5	None
TM32-1	32	250	45	389 Q-2	5FP17	832-39012 4.0	None
TM34-2	34	280	50	389 Q-2	5FP17	832-39012 4.0	None
TM36-2	36	280	50	389 Q-6	6FJ40	832-43002 4.0	None
TM38-85	38	230	22.5	389 Q-2	6FJ-41	832-43011-4.0	None
TM38-86	38	230	22.5	389 Q-3	6FJ41	832-43011-4.0	None
TM38-102	38	340	25	389 Q-2	6FJ40	832-43002-4.0	2.5
		N100/604-	VM28/486-		J8-		
TM33-8012	33	127.5	37.5	784-24111 P-8	5FP96	832-38007-1.5	0.7
TM36-68.so	36	130	12.5	784-13002 P-8	9DZH6-50	N/A	1.0
TM40-6	40	165	17.5	784-13002 Y-6	9DDY01	N/A	1.1

TM FLAT SLIDE CARBURETORS

**Special
Jet Needle
For 38 Flatside Carbs**

RICH	6PP04
↕	6FJ40 (Standard)
↕	6FM46
LEAN	6FJ41





TM FLAT SLIDE CARBURETORS - TM SERIES PART LIST

Description	VM28-418	TM32-1	TM34-2	TM36-2	TM38-1&3	TM38-85&86
1. Complete Starter Assy	VM26/116 (LT)	VM29/47	VM29/47	VM29/47	VM29/47	VM29/47
2. Nylon Ring	VM26/1046	VM26/1046	VM26/1046	VM38/153	VM38/153	VM38/153
3. Screw w/Lockwasher	CW2=310	CW2=310	CW2=310	CW2=310	CW2=310	CW2=310
4. Cable Connector	NLA	NLA	NLA	VM38/152	VM38/152	VM38/152
5. E-Ring	VM20/369	VM20/369	VM20/369	VM20/369	VM20/369	VM20/369
6. JET NEEDLE	J8-5DP39	J8-5FP17	J8-5FP17	J8-6F J40	J8-6F J40	J8-6F J41
7. Throttle Valve	NLA	832-39012-4.0	832-39012-4.0	832-43002-4.0	832-43002-4.0	832-43011-4.0
8. Idle Rod	N/A	N/A	N/A	VM38/159	VM38/159	N/A
9. Mixing Chamber Body	NLA	NLA	NLA	NLA	NLA	NLA
10. Screw, Jet Block	VM38/132	VM38/132	VM38/132	VM38/132	VM38/132	VM38/132
11. Washer (Alum)	VM34/274	VM34/274	VM34/274	VM34/274	VM34/274	VM34/274
12. Jet Block, Left	NLA	NLA	NLA	NLA	VM38/144	TM38/08
13. Jet Block, Right	NLA	NLA	NLA	NLA	VM38/145	TM38/09
14. Float Pin	VM30/160	VM30/160	VM30/160	VM30/160	VM30/160	VM30/160
15. Float Arm	N/A	VM36/15	VM36/15	VM36/15	VM36/15	VM36/15
16. Cap, Float Guide Pin	VM26/42	VM26/42	VM26/42	VM26/42	VM26/42	N/A
17. PILOT JET	VM22/210-15	VM22/210-45	VM22/210-50	VM22/210-50	VM22/210-356	VM22/210-22.5
18. Float (Assy)	VM28/694	VM24/236	VM24/236	VM24/236	VM24/236	859-52020
19. Gasket, Float Chamber	NLA	VM34/374	VM34/374	VM34/374	VM34/374	VM34/374
20. Float Chamber Assy	NLA	TM32/02-60	TM32/02-80	TM32/02-100	TM32/02-100	TM38/138
21. Plate, Hose Retaining	NLA	NLA	NLA	NLA	NLA	NLA
22. Screw w/Lockwasher	CW2=0416	CW2=0516	CW2=0516	CW2=0518	CW2=0518	CW2=0516
23. O-Ring	VM26/227	VM28/254	VM28/254	VM28/254	VM28/254	VM28/254
24. Drain Plug	VM28/817	VM28/253	VM28/253	VM28/253	VM28/253	VM28/253
25. Cap, Idle Adjuster	N/A	N/A	N/A	VM35/40	VM35/40	N/A
26. Packing (Rubber)	N/A	N/A	N/A	N138.077	N138.077	N/A
27. Nut	N/A	N/A	N/A	N2=04	N2=04	N/A
28. Idle Adjuster	N/A	N/A	N/A	603-68001	603-68001	N/A
29. Nut	N/A	N/A	N/A	BDC36/35	BD36/35	N/A
30. Rubber Cap	VM26/46	VM/18/228	VM/18/228	VM/18/228	VM/18/228	N/A
31. Screw w/Lockwasher	CW2=0412	CW2=0412	CW2=0412	CW2=0412	CW2=0412	CW2=0412
32. Cable Adjuster	M18F/43a	VM36/83	VM36/83	VM36/83	VM36/83	VM36/83
33. LockNut	B30/247	B30/247	B30/247	B30/247	B30/247	B30/247
34. Mixing Chamber Top	NLA	NLA	NLA	776-19002	776-19002	776-19001
35. Gasket, Top	VM28/1045	NLA	NLA	VM38/127	VM38/127	VM38/127
36. Throttle Valve Spring	730-15001	NLA	NLA	730-16003	730-16003	730-16003
37. NEEDLE JET	VM30/46-P-8(175)	785-24001-Q-2(389)	785-24001-Q-2(389)	785-24001-Q-2(389)	785-24001-Q-2(389)	785-24001-Q-2(389)
38. Ring, Main Jet Assy	VM/28/429	VM24/622	VM24/622	VM24/622	VM24/622	VM24/622
39. MAIN JET	4/042-180	4/042-250	4/042-280	4/042-280	4/042-290	4/042-230
40. VM24/559	KV/10	KV/10	KV/10	KV/10	KV/10	KV/10
41. Needle Valve	VM24/557-2.5	786-46001-3.3	786-46001-3.3	786-46001-3.3	786-46001-3.5	786-46001-3.5
42. Plate, Needle Valve	VM24/560	VM24/560	VM24/560	VM24/560	VM24/560	VM38/29
43. Screw	C2=0406	C2=0406	C2=0406	C2=0406	C2=0406	C2=0406
44. Vent Hose	NLA	NLA	NLA	NLA	NLA	NLA
45. Gasket, Front Cover	VM28/1044	NLA	NLA	NLA	NLA	VM38/126
46. Front Body, Air Intake	NLA	NLA	NLA	NLA	NLA	NLA
47. Bolt	N/A	N/A	N/A	N/A	BV15/27	N/A
48. Screw	VM38/133-B	VM38/133-B	VM38/133-B	VM38/133-B	VM38/133-B	VM38/133-B
49. Air Screw, Pilot	VM20/584	VM24/622	VM24/622	VM24/622	VM24/622	VM24/622
50. Spring, Pilot Air Screw	M12F/46a	M12F/46a	M12F/46a	M12F/46a	M12F/46a	M12F/46a
51. Washer, Pilot Air Screw	N/A	VM12/33	VM12/33	VM12/33	VM12/33	VM12/33
52. O-Ring, Pilot Air Screw	N/A	N133.037	N133.037	N133.037	N133.037	N133.037
53. MAIN AIR JET	BS30/97-1.8	2.5 On Body	2.5 On Body	2.5 On Body	2.5 On Body	2.5 On Body
54. Overflow Hose	NLA	NLA	NLA	NLA	NLA	VM24/328
55. Starter Jet*	VM17/1002-15	VM17/1002-60	VM17/1002-80	VM17/1002-80	VM17/1002-100	VM17/1002-40
56. Idle Stop Screw	603-27002	603-16003	603-16003	N/A	N/A	603-16003
57. Spring Idle Screw	VM15/112	VM24/556	VM24/556	N/A	N/A	VM24/556
58. O-Ring	VM14/75	BV32/04	BV32/04	N/A	N/A	BV32/04
59. Washer	VM14/87	N/A	N/A	N/A	N/A	N/A

Starter Jet available in size 15 thru 120; LT - Lever Type; N/A - Not Applicable NLA - No Longer Available

TMX SERIES CARBURETORS

- Intended for 2-stroke engines.
- Features a radial flat slide design working in a smooth bore venturi.
- Provides improved throttle response along with a wider and stronger engine power band.
- A lightweight and compact body design offers easy maintenance and tuning features.
- A float system with independently moving floats.
- Features an easy-access main jet enclosed in a baffle chamber.
- Performs smoothly without hesitation across the roughest terrain and under extreme lean angles and cornering forces.

Complete Kit Includes: Air Boot Adapter, Inner Throttle Cable Wire, Cable End, Main Jets, Pilot Jets, Jet Needle, Clamps, Hose, Instructions

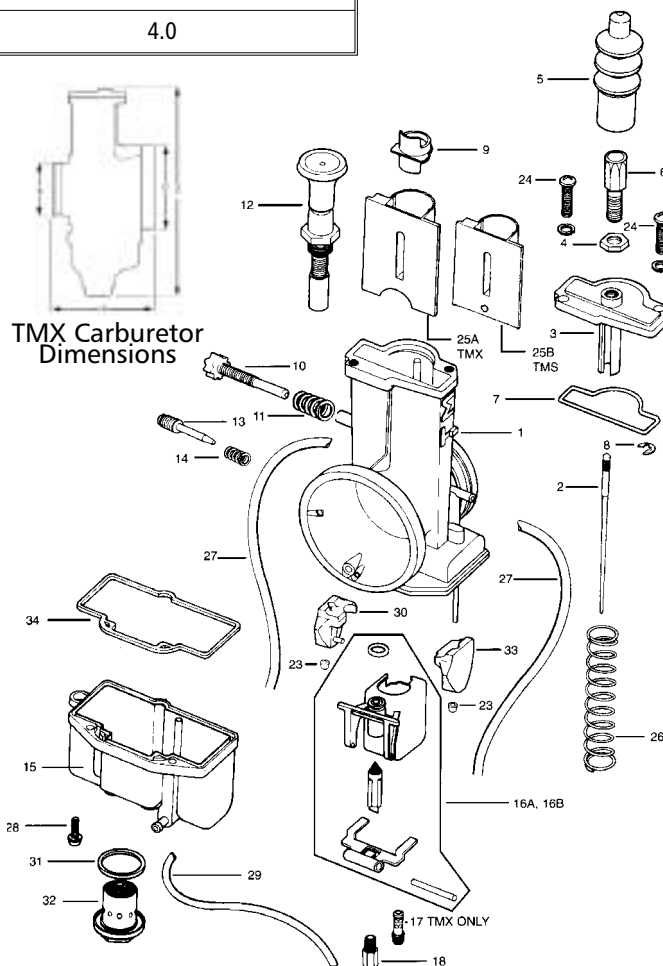


Carb #	Main Jet	Pilot Jet	Jet Needle	Throttle Valve
	4/042-	VM22/210-	J8-	832-014-
TMX35-1	350	20	6EN11-53	6.0
TMX38-1	370	20	6EJ12-55	3.5
TMS38-H125	Fits Honda CR125 '88-92			
TMS38-H12593	Fits Honda CR125 '93+			
TMS38-H250	Fits Honda CR250 '88-91			
TMS38-K125	Fits Kawasaki KX125' 88-91			
TMS38-S125	Fits Suzuki RM125' 88-91			
TMS38-Y125	Fits Yamaha YZ125' 88-91			
TMX38-101	340	25	6EJ12-57	4.0

Dimensions				
	A	B	C	D
TMX35	40	76	164	62
TMX38	44	76	164	62

TMX Series Part List

NO.	DESCRIPTION	PART NUMBER
1.	Mixing Body Carb	NLA
2.	Jet Needle	J8 -See Page 13-25
3.	Cover, Carb Top	776-19014
4.	Lock Nut, Adjuster	B30/247
5.	Cap, Rubber	VM34/282
6.	Adjuster, Cable	VM30/77
7.	O-Ring, Top Cover	616-93009
8.	E-Ring, Needle Clip	BS32/126
9.	Ring, Retaining	TM38/54
10.	Adjuster, Idle Stop	603-25008
11.	Spring, Idle Adjust	N110209
12.	Plunger, Starter Assy	TM38/57
13.	Screw, Air Adjuster	603-36002
14.	Spring, Air Screw	VM15/112
15.	Chamber, Float Bowl	TM38/48
16A.	Valve Seat, Needle Assembly	820-26002-3.5
16B.	Valve Seat, Needle Assembly	820-26002-1.8A
17.	Pilot Jet	VM22/210 -See Tuning
18.	Main Jet	4/042 -See Tuning
23.	Cap, Float Retainer	VM26/42
24.	Screw, Top Cover	CW2=0412
25A.	Throttle Valve (TMX)	832-014 -See Page 219
25B.	Throttle Valve (TMS)	832-017 -See Page 219
26.	Spring T.V.	730-13019
27.	Hose, Vent	888-24011
28.	Screw, Float Bowl	CW2=0308
29.	Hose, Overflow	888-23022
30.	Float, Left Side	859-52021
31.	O-Ring, Drain Plug	BN042-64
32.	Drain Plug	TM38/44
33.	Float, Right Side	859-52020
34.	Gasket, Float Bowl	TM38/52



MIKUNI RACING CARBURETORS - RS SERIES

STANDARD TUNING SPECIFICATIONS

MIKUNI KIT NUMBER	APPLICATION *(GENERAL)	CARB SPACING (Throttle Shaft No.) A-B-C	SPIGOT (O.D.) MM	MAIN JET (N100.804)	*JET NEEDLE (J#-) (CLIP POS.)	NEEDLE JET #568 (784-13002)	PILOT JET (VM28/486)	PILOT SCREW (TURNS)
RS34-D21-K	GSX-600 88 GSX-R 750 to 1990 SUZ GS 750 ALL KAW KZ 750	77-93-77 (700-17011)	40	115	90Z#1 (-3)	P-4	17.5	1/4-1/2
RS36-D3-K	GSX-R 750 to 1990 GSX-R1100 to 1990 GS 1000-1150 KZ 1000-1100	77-93-77 (700-17011)	42	120 120 130 130	90Z#1 (-3)	P-4	17.5	1/4-1/2
RS38-D19-K	GSX-R 750 to 1990 GSX-R1100, GS 1000-1150 KZ 1000-1100	77-93-77 (700-17011)	42	135 135 135	90HY3 (-2)	Y-6	17.5	1/4-1/2
RS40-D1-K	GSX-R '90, GS, KZ RACE	77-93-77 (700-17011)	44	140	90HY3 (-3)	Y-6	17.5	1/4-1/2

KIT PREFIX NUMBER DENOTES CARB VENTURI SIZE IN MILLIMETERS. IE. RS36=36MM BORE

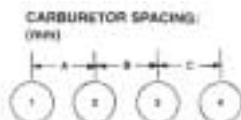
*NOTE: These are guidelines only, other applications may be available contact your Mikuni Distributor specifications are subject to change.



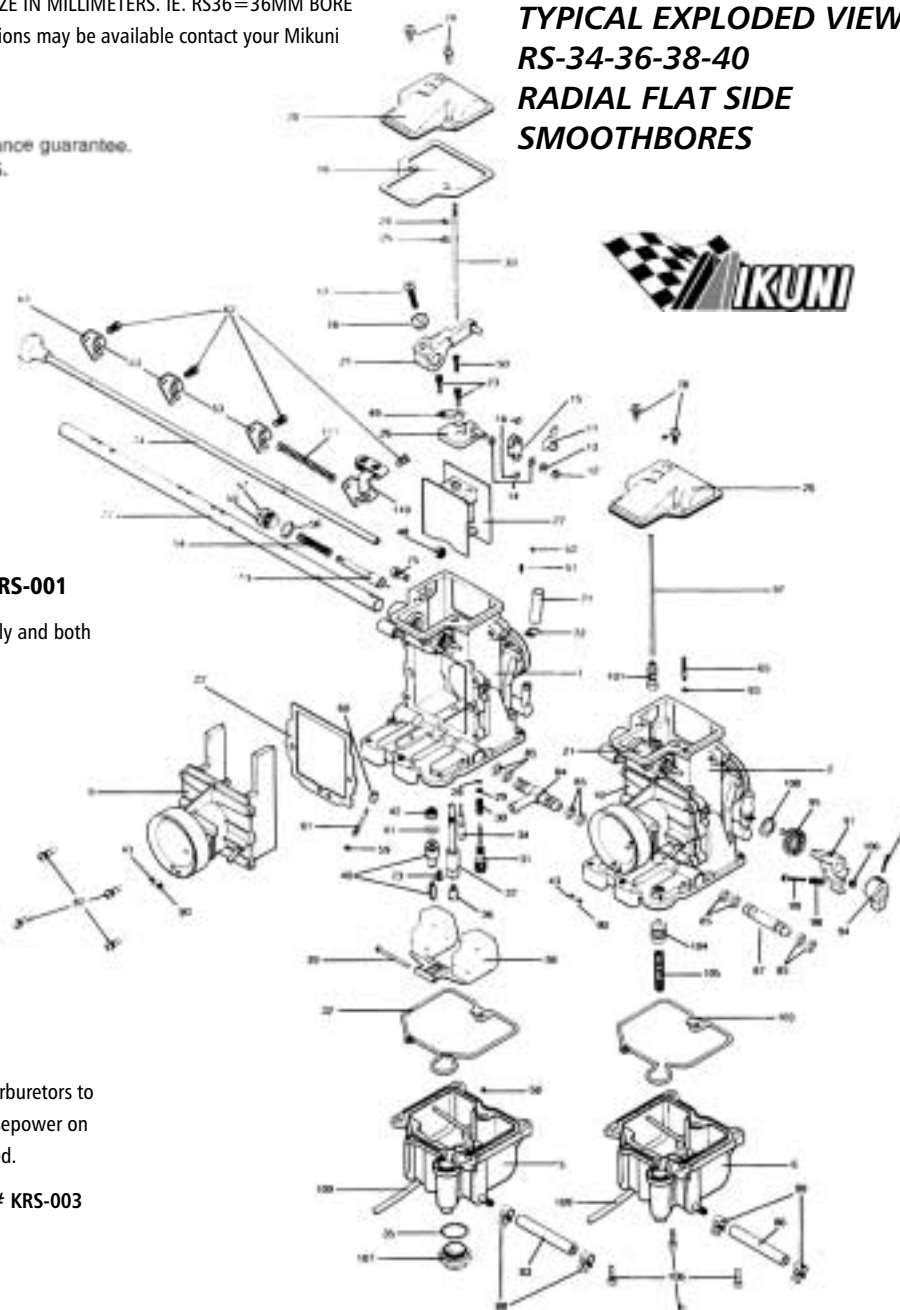
PARTS STAMPING

This marking is your quality assurance guarantee.
DO NOT ACCEPT SUBSTITUTES.

*NOTE: RS34/36
MAY USE 90Z#5
RS38/40 MAY USE
90HY10



**TYPICAL EXPLODED VIEW
RS-34-36-38-40
RADIAL FLAT SIDE
SMOOTHBORES**



Mikuni Push/Pull Throttle Assembly KRS-001

Throttle assembly includes twist throttle assembly and both throttle cables for the RS series carbs.

TCI Part# 708-410

Mikuni Velocity Stacks

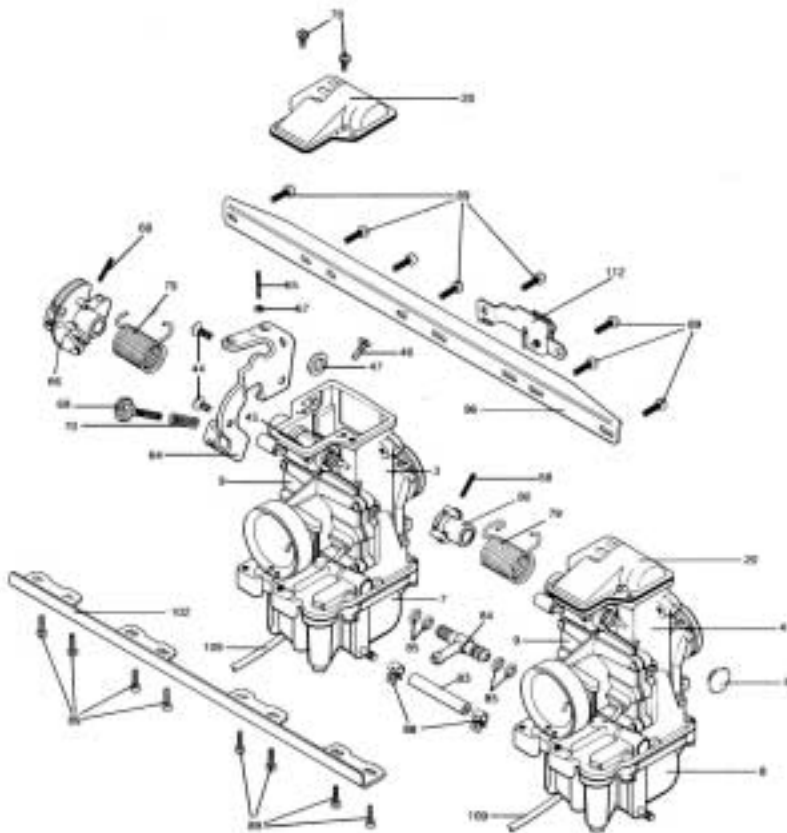
Velocity stacks improve the airflow into the carburetors to increase induction efficiency and increase horsepower on racing engines where air filters are not required.

50mm Mikuni Velocity Stacks TCI Part# KRS-003

MIKUNI RACING CARBURETORS

No.	Description	Part Number
17	SCREW, SYNCH. LOCK	C5-0518
18	RING, SYNCH. ADJUST	TM36/08
19	GASKET, TOP COVER	TM36/39
20	TOP COVER, CARB.	TM36/50
21	LEVER ASSY, T.V. #1-2-4	TM99/51
22	GASKET, A/FUNNEL	TM36/42
23	SCREW, 2.5 mm ALLEN	739-13001
24A	E-RING, RS 32-34-36 NDLE	VM20/369
24B	E-RING, RS 38-40 NDLE	BS32/126
25	WASHER, NEEDLE CLIP	VM26/315
26	CONNECTOR PLATE, T.V.	TM99/54
27A	VALVE, THROTTLE 32-34-36	832-42004
27B	VALVE, THROTTLE 38-40	832-42004-01
28	O-RING, FUEL SCREW	N133.037
29	WASHER, FUEL SCREW	VM12/33
30	SPRING, FUEL SCREW	N133.206
31	SCREW, PILOT FUEL	604-26003
32	O-RING, F.C.B. #1-3-4	616-94020
33A	JET NEEDLE RS36 BEFORE 12/87	J8-9CHY01
33B	JET NEEDLE RS32-34-36	J8-9DZH01
33C	JET NEEDLE RS38-40	J8-9CHY03
34	PILOT JET	VM28/486
35	O-RING, DRAIN PLUG	VM28/254
36	MAIN JET	N100-604
37	NEEDLE JET-568	784-13002
38	FLOAT ASSY	859-3291+

No.	Description	Pa
39	PIN, FLOAT	VF
40	NEEDLE VALVE ASSY	N
41	O-RING, NEEDLE VALVE	K0
42	FILTER, NEEDLE VALVE	VI
43	MAIN AIR JET (PLUGGED)	B1
44	SCREW, CRANK BRACKET	C1
45	LEVER ASSY, T.V. #3 CARB	FF
46	SCREW, LEVER LOCK	GI
47	PACKING, SHAFT	VF
48	HEXAGON, LOCK NUT	VF
49	PLATE, NEEDLE RETAINER	FF
50	SCREW, T.V. PLATE	GI
51	SPRING, STARTER SHAFT	B1
52	BALL, STARTER SHAFT	B1
53	PLUNGER, STARTER	N
54	SPRING, STARTER	VI
55	GUIDE HOLDER, STARTER	GI
56	O-RING, STARTER	N
57	CAP, STARTER	FF
58	STARTER JET	VI
59	O-RING, A/P NOZZLE	N
60	PLUG, A/P NOZZLE	T1
61	PUMP NOZZLE	T1
62	SCREW, START BRACKET	N
63	LEVER, STARTER SHAFT	FF
64	BRACKET, BELL CRANK	FF
65	ADJUST SCREW, A/P	T1
66	LEVER ASSY, BELL CRANK	FF
67	HEXAGON NUT, A/P	N
68	PIN, THROTTLE BELL CRANK	N
69	ADJUSTER, IDLE	FF
70	SPRING, IDLE ADJUSTER	N
71	CAP, VACUUM FITTING	N
72	SPRING CLIP, VAC. FIT	SA
73	SCREW, NV HOLDER	VS
74	SHAFT ASSY, STARTER	FF
75	PAN HEAD MACHINE SCREW	C1
76	FLAT HEAD MACHINE SCREW	GI
77A	SHAFT, THROTTLE B/C #3	70
77B	SHAFT, THROTTLE B/C #1	70
77C	SHAFT, THROTTLE B/C #3	70
78	SCREW, TOP COVER	C1
79	SPRING, THRTL. RTRN.	FF
80	LEVER, RTN. SPRING	FF
81	CAP, SHAFT END	FF
82	SCREW, AIR FUNNEL	VF
83	HOSE, FUEL CONNECT	FF
84	INLET, FUEL "T"	FF
85	O-RING, FUEL JOINT	61
86	HOSE, A/P FUEL	FF
87	JOINT, FUEL	79
88	CLIP, FUEL HOSE	E1
89	SCREW, BRACKET	C1
90	PILOT AIR JET	B1
91	LEVER, A/PUMP	FF
92	PIN, A/P LOCATE	FF
93	O-RING, A/P ADJ.	B1
94	LEVER, A/PUMP	FF
95	SPRING, A/PUMP	FF
96	PLATE, TOP BRACKET	FF
97	ROD, A/PUMP	T1
98	SPRING, A/P ADJ.	M
99	SCREW, A/P ADJ.	M
100	HEXAGON NUT, A/P ADJ.	N
101	CAP, A/P RUBBER	T1
102	PLATE, LOWER BRACKET	FF
103	O-RING, F.C.B. A/P	FF
104A	PLUNGER, A/PUMP 8mm	T1
104B	PLUNGER, A/PUMP 12mm	T1
105	SPRING, A/P 12mm	VS
106	SCREW, FLOAT BOWL	C1
107	PLUG, DRAIN	VS
108	RING, A/P SPRING	GI
109	HOSE	FF
110	LEVER, STARTER CABLE	T1
111	SPRING, STARTER BRACKET	73
112	BRACKET, STARTER CABLE	T1



PART NUMBER (999-999) = NO AVAILABLE STOCK

BN WATERCRAFT CARBURETOR

High Performance Super BN Series

Our Performance BN Carburetors were specially designed to meet the needs of high horsepower racing watercraft. We have achieved greater air flow and fuel flow through extensive testing to provide maximum output for racing engines. Special needle valves and springs give optimum "pop-off" with larger high and low speed jets for "first to the buoy" performance.

BN38-8075/8076

Performance dual 38 mm carbs with a shaft coupling included. Designed exclusively for dual 38 mm kits using most after market manifolds and flame arrestors.

- Features a 2.0 Viton needle valve, #65 pilot jet, #107.5 main jet, primer type cold starter fitting, angled fuel fitting and instruction manual.

BN38-34-8113

Performance single 38 mm carb to replace most standard BN or Super BN carb.

- Features a Viton 2.0 needle valve, extended throttle shaft for dual or triple applications, #65 pilot (slow) jet, #107.5 main (high) jet, no butterfly choke, primer fitting, and owners manual.

BN44-40-8067

Performance single 44 mm for most sit-down models requiring larger jets.

- Features a Viton 2.5 needle valve, extended throttle shaft for dual or triple applications, #120 pilot (slow) jet, #140 main (high) jet, no butterfly choke, primer fitting and owners manual.

BN44-750K

High performance 44 mm super BN carb kit with manifold, K & N flame arrestor, primer pump and installation hardware.

- For Kawasaki 750SS/SX.

BN46-750K

High performance 46mm super BN carb kit with manifold, K&N flame arrestor, primer pump and installation hardware.

- For Kawasaki 750SS/SX



Pro racing super BN 46 series

The "Biggest" Super BN ever made. The Super BN46 features a large 48mm intake tapering to a 42mm Venturi and controlled by a 46mm butterfly valve. This carb comes ready to race

BN46-42-8002

High performance 46mm super BN carb with extended throttle shaft to make dual kits. Designed to give pro level performance. Features a 2.5 Viton needle valve, #120 pilot jet, #150 main jet, primer type cold starter fitting, angled fuel fittings and instruction manual.

Note: Bolt pattern is the same as BN44, some manifold porting may be necessary to maximize air flow.



BN CARBURETOR PARTS

Super BN 38 Needle Valve Kit BN38NV

- Replacement kit for Super BN38, contains a 2.0 needle valve, and 115 gram spring with approximately 32lbs pop off and 80gram spring for 21 lbs pop off.

Super BN 44 Needle Valve Kit BN44 NV1

- Replacement kit for Super BN44, contains a Viton 2.3 needle valve and 65 gram spring for 15 lbs pop off. Instructions included.

Super BN44 Needle Valve Kit BN44 NV2

- Replacement kit for High Performance Super BN44 and 46, contains a 2.5 needle valve and 80 gram spring for 14lbs pop off. Instructions included.

Round BN Needle Valve Kit BN38/44NV

- Replacement needle valve kit for standard BN carbs with round fuel pump.

Rebuild kits for BN, SBN, BNI

All the parts you need to rebuild your Mikuni BN Series carburetor. Does not include needle valve, see Needle Valve kits for this. See page 210 exploded view of carburetor for the parts included in this kits.

BN Rebuild Kit BN38/44

- For 38/44mm early style round standard BN carbs.

Super BN Carb Rebuild kit BN38/44SPR

- For 38/44mm rectangular Super BN carbs., and for 38/40mm "I" carbs.



Throttle Shaft Rebuild Kits

Kit includes butterfly valve, shaft, seals, screws and instructions.

SBN 38mm BN/038TV

SBN 44mm BN/044TV

SBN 46mm BN/046TV

Angled flange-nut wrench

Designed to make carb removal and installation a breeze.

BN/002 12mm wrench

BN/003 13mm wrench



Super BN Owners Manual BN/004

This manual provides full details on tuning and service.



Coupling Kit BN/001

Allows two carbs to be connected for dual carb setups



BN WATERCRAFT CARBURETOR PARTS



Super BN Tuning component

Pilot (Slow Speed) Jets	N100.606-(size)
• Sizes 50 through 150 in increments of 2.5	
Main (High Speed) Jets	N102/221-(size)
• Sizes 50 through 200 in increments of 2.5.	
Needle valve Assembly	786-35015-(size)
• Solid Needle, Viton Tipped, sizes 1.5, 2.0, 2.3, 2.5.	
Needle Valve Arm Springs 65g	730-03030
Needle Valve Arm Springs 115g	730-03027
Needle Valve Arm Springs 95g	730-03027-T
Needle Valve Arm Springs 80 grams(Black)	730-03033

30 lb Pop Off Pump

BN PMP

Guage gives accurate pop off pressure readings. Our high pressure pump is very durable and easy to use. This pump is a must for tuning your carb.

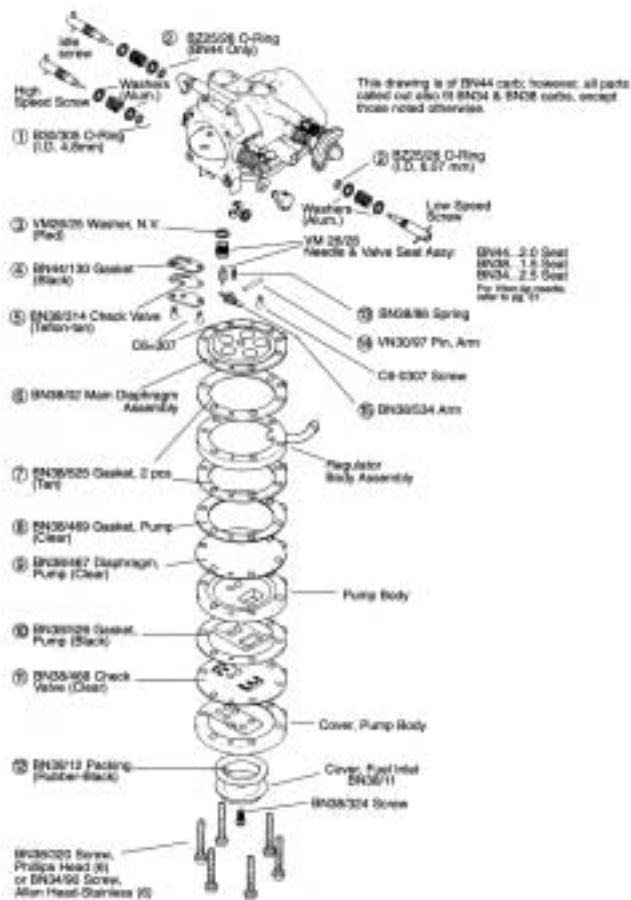


100lb Pop Off Pump

BN PMP100

Guage & pump allow for readings on many stock carbs with small needle valves and strong springs.

BN ROUND PUMP TYPE CARB



SUPER BN WATERCRAFT CARBURETOR

Rebuild Kit for Super BN38 & BN44

Fits:

Mikuni Super BN38 & BN44 (Square Pump)
 Yamaha Water Vehicles with Super BN44
 See-Doo with Super BN38

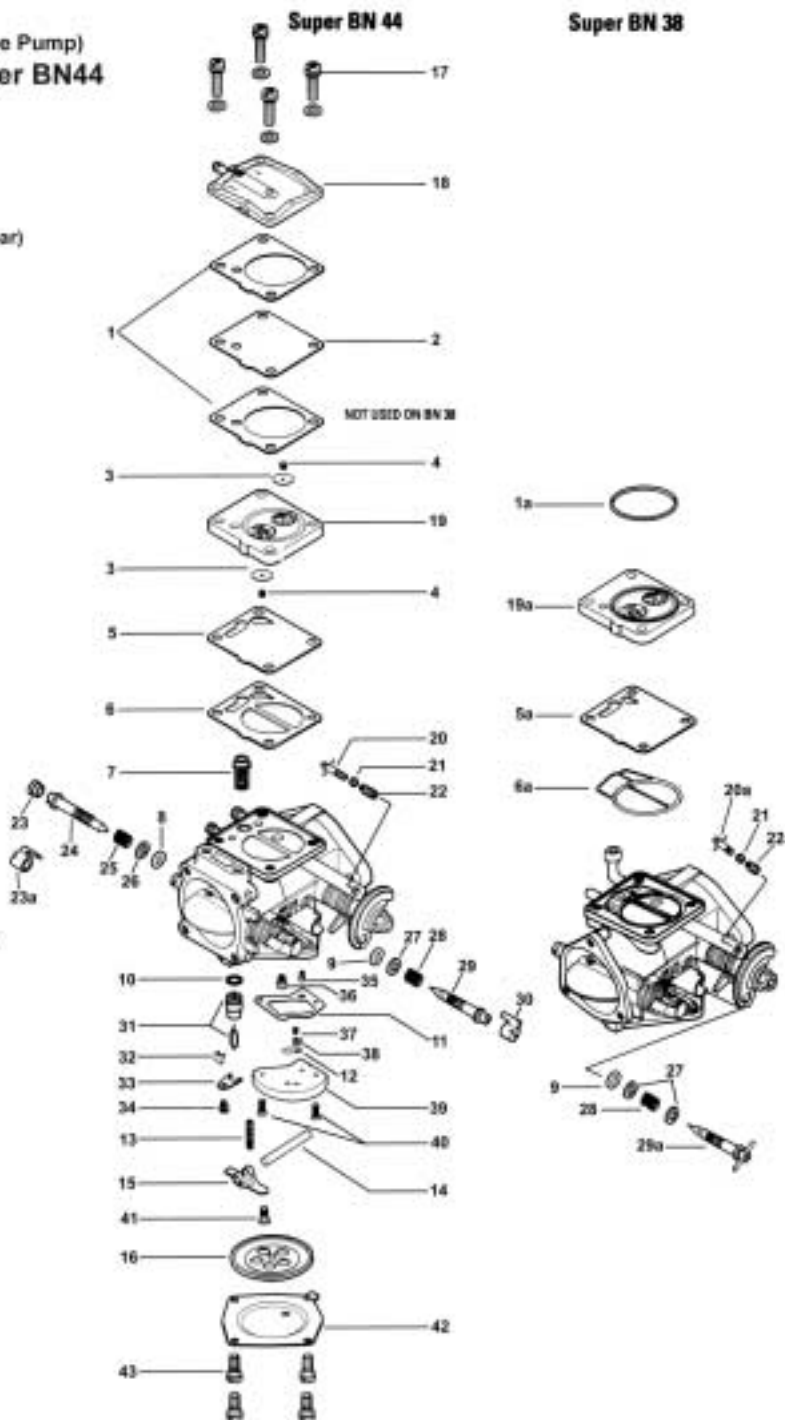
No.	Part Number	Description
1.	BN38/547	Gasket, Pump (2)
2.	616-72001*	O-Ring
3.	BN34/97	Diaphragm, Pump (Clear)
4.	BN34/125	Grommet, Check Valve (2, clear)
5.	BN34/100**	Diaphragm, Damper
5.a	BN34/129*	Diaphragm, Damper
6.	BN34/101**	Gasket, Damper
7.	BN44/146	Filter
8.	B30/305	O-Ring, Hi-Speed
9.	MD12/15	O-Ring, Low Speed
10.	KV/10	O-Ring, Needle Valve
11.	BN34/123	Gasket, Valve Body
12.	BN34/107	Check Valve (Clear)
13.	730-03027	Spring, Arm (115 grams)
14.	VM30/97	Pin, Arm
15.	BN38/534	Arm (Stainless)
16.	BN44/145	Diaphragm Assembly

Note: Kit contains parts 1 through 16

17.	BN34/120-30	Screw w/ washers, (4, Stainless)
18.	BN34/95B	Cover, Pump
19.	BN34/95A	Body Assembly, Pump
19.a	BN34/128*	Body Assembly, Pump
20.	BN44/109**	Stop Screw, Idle
20.a	BN34/82*	Stop Screw, Idle
21.	BN38/39	Washer (Aluminum)
22.	BN38/341**	Spring, Idle
22.a	BN38/344*	Spring, Idle
23.	B26/03**	Cap
23.a	BN44/118*	Cap w/ Tab
24.	604-25017	Adjuster, Hi Speed
25.	BN38/344	Spring, Hi Speed
26.	BN38/39	Washer, Hi Speed (Aluminum)
27.	BN38/172	Washer, Low Speed (Aluminum)
28.	BN38/343	Spring, Low Speed
29.	604-26008**	Adjuster, Low Speed
29.a	BN38/477*	Adjuster, Low Speed w/ Cross Bar
30.	990-904-006	Cap
31.	786-30015-size	Needle Valve Assembly (Viton)
32.	VM15/285	Spring Clip, Needle Valve
33.	BN34/117-GG	Plate, Needle Valve Retainer
34.	CW2-0307-G	Screw w/ Washer
35.	N100.606-size	Jet, Low Speed
38.	N102.221-size	Jet, Hi Speed
37.	BV15/121-05-GG	Screw
38.	BN34/108-GG	Plate, Valve
39.	BN44/165	Valve Body Assembly
40.	C5-0414-G	Screw (2 pcs)
41.	C6-0308-G	Screw
42.	BN44/147	Cover (Stainless)
43.	MCWS-0512	Screw w/ Washer (4, Stainless)

NOTE:

Parts marked w/ single asterisk (*) fit BN38 only.
 Parts marked w/ double Asterisk (**) fit BN44 only.



BN46I WATERCRAFT CARBURETOR

No.	Part Number	Description
1.	BN46I/13	Gasket, Pump
2.	BN46I/14	Diaphragm, Pump (Clear)
3.	616-73002	O-Ring
4.	BN46I/11	Check Valve (2)
5.	BN34/125	Grommet (2)
6.	BN46I/34	Diaphragm, Damper
7.	BN46I/15	Diaphragm, Damper (Clear)
8.	616-73003	O-Ring
9.	BN44/146	Filter, Fuel
10.	B30/305	O-Ring, Hi Speed (2)
11.	MD12/16	O-Ring, Low Speed
12.	KV/10	O-Ring, Needle Valve
13.	BN34/123	Gasket, Valve Body
14.	BN34/107	Check Valve (Clear)
15.	VM30/97	Pin, Arm
16.	730-03034	Spring, Arm 95 gram
17.	BN38/534	Arm (Stainless)
18.	BN44/145	Diaphragm assy., Main

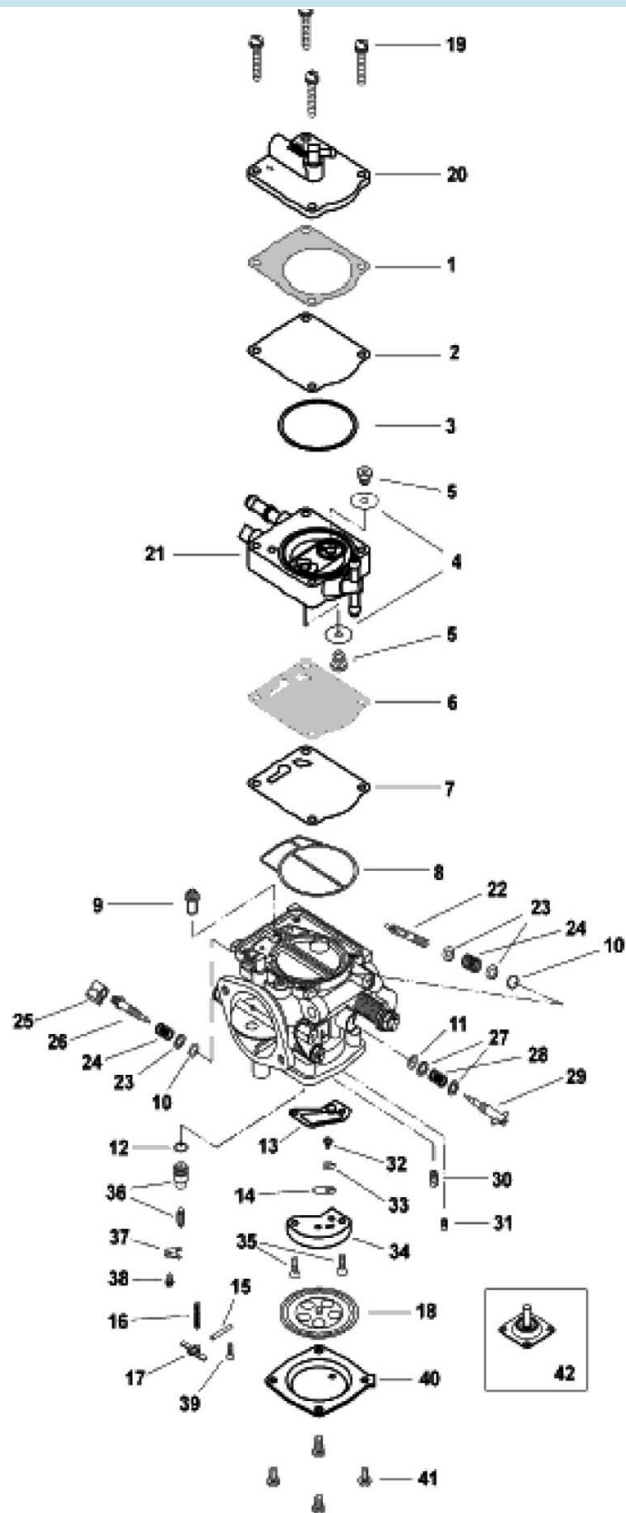
NOTE: Kit contains parts 1 through 18

19.	BN34/120-35	Screw w/ washers (4)**
20.	BN46I/xx	Cover, Pump
21.	BN46I/49	Body Assy., Pump
22.	BN38I/40	Stop Screw, Idle
23.	BN38/39	Washer, Aluminum (3)
24.	BN38/344	Spring (2)
25.	999-904-006	Cap, Hi Speed Adjuster
26.	604-25017	Adjuster, Hi Speed
27.	BN38/172	Washer, Aluminum (2)
28.	BN38/343	Spring, Low Speed
29.	BN38/477	Adjuster, Low Speed
30.	N102.221-size	Jet, Hi Speed
31.	N100.606-size	Jet, Low Speed
32.	BV15/121-05-GG	Screw
33.	BN34/108-GG	Plate, Valve
34.	BN44/165	Valve Body Assy.
35.	C5=0414-G	Screw (2)
36.	786-35018-size	Needle Valve Assy.
37.	BN34/117-GG	Plate, Needle Valve rtnr
38.	CW2=0307-G	Screw w Washer
39.	C6=0308-G	Screw
40.	BN44/147	Cover (Stainless)
41.	C2S=0514	Screw (4)**
42.	BN40I/22	Diaphragm, Acclr. Pump

****Tightening Torque:**

Part No. 19: 4.5 N/m (45 Kg/Cm)

Part No. 41: 3.5 N/m (35 Kg/Cm)



VM SERIES CARBURETORS



The most popular high performance single carburetors in the use of motorsports.

Round Slide Single Carburetors

- The performance standard for use in any application on both 2-stroke and 4-stroke engines.
- Designed to meet the unique demands of snowmobiles & motorcycles.
- Snow Carbs feature special throttle valve and needle valve designs which are better suited to colder, more dense air and constant throttle settings.
- Performance features include a large selection of bore sizes for increased fuel mixture flow to match engine modifications.
- Offers a wide range of tuning components to allow precise fuel mixture metering in any application, at any throttle setting, under any riding condition.



Round Slide Singles Mikuni Carburetor Standard Specifications

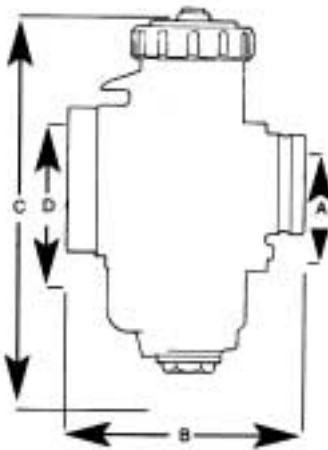
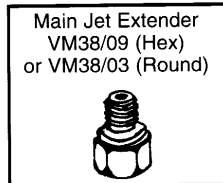
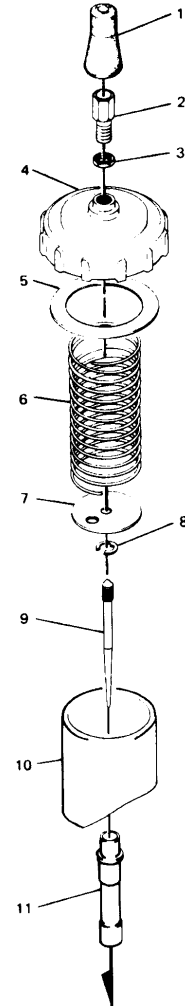
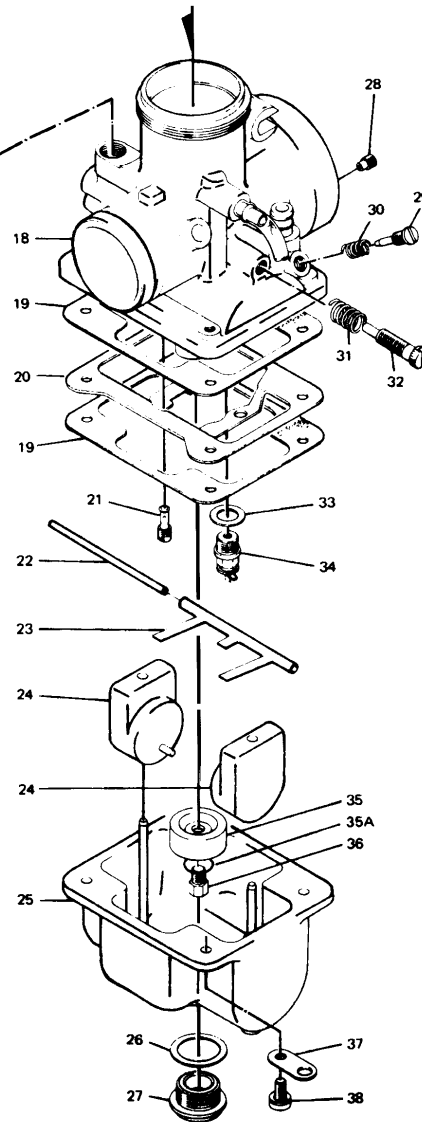
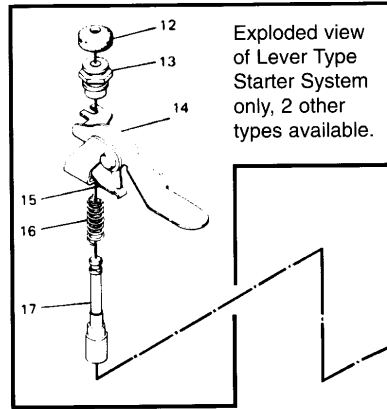
Carb #	Size (mm)	Main Jet (4/042)	Pilot Jet (VM22/210)	Needle Jet (Series #)	Jet Needle	Throttle Valve (Part #)	Main Air Jet (Part #)	Needle Valve (Part #)
VM-16-519*	16	70	25 (VM22/210)	D-8 (VM16/67)	3DJ3	(VM16/137) 2.5	(BS30/97) 0.5	(VM34/39) 3.3
VM18-144*	18	80	30	O-0 (145)	4F18	(VM18/158) 3.0	2.5	(VM15/172) 1.5
VM20-273*	20	180	225 (M28/1001)	O-6 (239)	4J13	(VM20/491) 2.0	(VM13/04) 0.5	(VM15/172) 1.5
VM22-133*	22	100	30	N-8(257)	4D20	(VM26/21) 2.0	2.5	(VM26/26) 2.0
VM24-512	24	210	40	N-8 (864)	5L14-4	(VM26/21) 1.5	(MD13/24) 0.8	(VM26/26) 2.0
VM26-8074	26	190	60	N-8 (182)	5F3	(VM28/56) 2.0	(BS30/97) 0.5	(VM2626) 2.5
VM30-83	30	250	40	P-5 (159)	6F5	(VM34/110) 2.5	(BS30/97) 2.0	(VM34/39) 3.3
VM30-164	30	270	35	Q-0 (159)	6DH	2.0	2.5	1.5
VM32-193*	32	200	35	Q-6 (159)	6DP17	(VM32/65) 3.0	(BS30/97) 2.0	(VM34/39) 3.3
VM32-33	32	200	35	Q-6 (159)	6DP17	(VM34/110) 3.0	(BS30/97) 2.0	(VM34/39) 3.3
VM32-282	32	280	35	Q-0 (159)	6DH4	2.5	2.5	1.5
VM34-168*	34	260	35	Q-2 (159)	6DH4	(VM34/110) 2.5	(BS30/97) 2.0	(VM34/39) 3.3
VM34-275*	34	260	35	Q2 (159)	6DH4	(VM32/65) 2.5	(BS30/97) 2.0	(VM34/39) 3.3
VM34-389	34	330	30	Q-0	6DH3	2.5	2.5	1.5
VM36-4	36	310	35	Q-5 (159)	6FJ6	(VM36/36) 2.5	(BS30/97) 2.0	(VM34/39) 3.3
VM38-9	38	330	30	Q-2 (166)	6DP1	(VM38/24) 2.5	(BS30/97) 0.5	(VM34/39) 3.3
VM38-21	38	360	40	Q-0 (166)	6DH3	(VM38/24) 2.5	2.5	(VM28/163) 1.5
VM44-3	44	310	35	AA-5(224)	7F7	(VM44/23) 2.5	(BS30/97) 0.5	(VM34/39) 3.3
VM44-7	44	540	35	AA-4(224)	7DH2	(VM40/02) 1.5	(BS30/97) 0.7	(VM28/163) 1.5

*VM18-144: Special order, clamp on type; VM16-159: clamp on type *VM20-273, YSR50 flange type; *VM22-133: flange type; *VM32-193, right side idle screw (match to VM32-33); *VM34-168, 11.5mm bell, large fuel inlet; VM34-275, right side idle screw (match to VM34-168); all VM26 thru VM44mm, spigot type

See next page for carburetor sizes and measurement diagram

VM SPIGOT MOUNT TYPE CARBURETORS

VM Series Part List



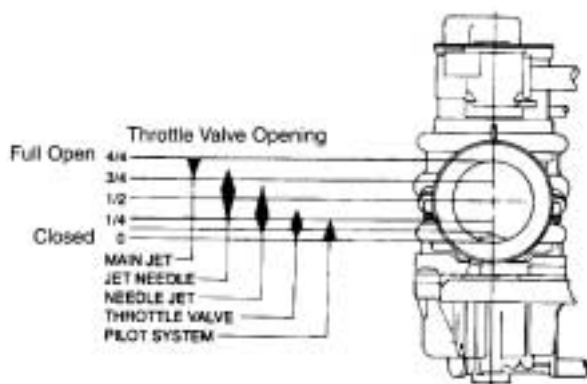
MODEL	VM18	VM20	VM22	VM26		VM30	VM32	VM34	VM36	VM38	VM44
A	CLAMP ON 22 ID	FLANGE 50.8 BOLT CTR	FLANGE 49 BOLT CTR	35			40			43	52
B	67	66	85	93		93	102	93		116	
C	108	115	114	122		137	142	137	152	154	193
D	32	43	43	44			58		62		70
TOTAL WIDTH	61	76.5	82	82			83			79	



VM Series - Part List

ITEM # & DESCRIPTION	VM26	VM28	VM30	VM32	VM34	VM36	VM38	VM40	VM44
1. Rubber Cap, throttle cable	Straight VM26/46 - 90° angle M22/18								
2. Cable Adjuster	Straight M18F/43 - 90° angle I-M22-10-3								
3. Locknut, cable adjuster	B30/247								
4. Top, mixing chamber	VM26/44 VM26/56		VM34/27		VM36/09		VM44/05		
5. Gasket, mixing chamber top	VM26/57		VM34/29		VM36/06				
6. Spring, throttle valve	VM24/195	VM28/58	VM34/50 VM34/06	VM34/55				VM44/13	
7. Plate, spring seat	VM26/55	VM28/132	VM34/31		VM35/09		VM44/09		
8. Clip, needle positioning	VM20/369							BS32/126	
9. Needle	J8-* (#5 Series) page 220		J8-* (#6 Series) page 221				J8-* (#7 Series) page 222		
10. Throttle Valve (Slide)	VM28/56-*		VM34/110-*		VM36/36*	VM38/24*	VM44/23-*		
11. Needle Jet	VM28/86*	VM30/38*	VM34/05-*			VM34/17*	VM44/10-*		
12. Rubber Cap, starter plunger	VM20/455								
13. Fitting, starter plunger	VM26/116		VM20/456						
14. Lever, starter	VM28-51A		VM32/53						
15. Spring Plate, starter level	VM26/09C		VM32/17						
16. Spring, starter plunger	VM14SC11/89 VM16/42								
17. Plunger, starter	VM15/62		VM18/144						
18. Body, mixing chamber									
19. Gasket, float bowl	VM28/129		VM34/30 (w/o Baffle Plate) VM34/71 (w/Baffle Plate)		VM36/20				
20. Baffle Plate, float bowl			VM34/72		VM36/16 VM36/40		VM44/12		
21. Pilot Jet	VM22/210* ²¹⁶								
22. Pin, float arm hinge	BV26/22								
23. Arm, float		VM28/166	VM34/73		VM36/15				
24. Float, independent	CM24/236 (Flange Carb)								
	VM28/164 (Spigot)		VM34/61 (w/Baffle Plate) VM34/36 (w/o Baffle Plate)		VM24/236				
24. Float, connected twin brass	VM24/171								
25. Bowl, float			VM34/68		VM36/07		VM44/04		
26. Washer, main jet plug	VM28/134		4/053						VM28/134
27. Plug, main jet	VM28/133		VM34/42		VM36/14 VM28/253	VM38/08	VM28/133		
28. Air Jet	BS30/97-* page 216								
29. Air Adjusting Screw	VM20/214								
30. Spring, air adjusting screw	M12F/46A								
31. Spring, idle adjusting screw	M20/11								
32. Idle Adjusting Screw	VM24/224	VM28/142	VM24/224		VM22/171		VM24/224		
33. Washer, needle valve	VM26/25		B34/52						
34. Needle Valve & Seat Assy.	VM26/26		See Page						
35. Ring, main jet	VM28/228		VM36/17		VM28/228				
35A. Main Jet Washer	VM20/169								
36. Main Jet	4/042-* see page 215								

TUNING COMPONENTS



Functional Range Effectiveness of Tuning Parts - In Relation to the Throttle Valve Opening

- Approximate Values
- Pilot System - pilot air jet, pilot fuel jet, pilot fuel screw

Note: Optional Power Jet will affect other tuning components.

MAIN JETS

- The main jet meters the amount of fuel entering the needle jet.
- Main jets control the fuel flow at the full throttle opening.
- Order by part # and size (ie. 4/042-150).
- Jets are listed by size, from leaner to richer.

Large Hex

TCI PART# 4/042 - Jet Size

Jets are pre-packaged in bags of 4 but price is based on single jet. Please order Large Hex Main Jets in multiples of 4.

- 6mm hex width, 5mm thread diameter

Jet Size: (Increments)

50 thru 245 (5)
250 thru 500 (10)
520, 540, 560, 580, 600, 620, 640,
650, 660, 680, 700, 710, 720



Small Hex

TCI PART#M10/14 - Jet Size

- Length 8mm, 6mm OD

Jet Size: (Increments)

40 thru 200 (5)



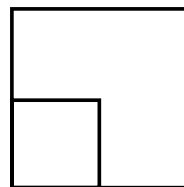
Large Round

TCI PART#N100/604 - Jet Size

- Length 9mm, 8mm OD

Jet Size: (Increments)

50 thru 200 (2.5)



Mikuni Parts Stamping

This is your quality assurance guarantee. Do not accept anything less than the best.

Small Round

TCI PART#N102/221 - Jet Size

- Length 9mm, 6mm OD

Jet Size: (Increments)

30 thru 250 (2.5)



Press In

TCI PART#N208.099 - Jet Size

- Length 9mm, 6mm OD

Jet Size: (Increments)

115 thru 150 (5)



Large Thread

TCI PART#VM11.22 - Jet Size

Special order part

- Length 8mm, 10.5mm OD

Jet Size: (Increments)

50 thru 180 (5)



PILOT JETS

- Controls starting, idling and low speed operation until approximately ¼ throttle.

Fits all VM, TM, TMX Carburetors

TCI PART# VM22/210 - Jet Size
\$3.49-J

- Length 14mm, Outer Diameter 4mm

Jet Size: *(Increments)*

10 thru 40 (2.5)

40 thru 110 (5.0)



Bleed Type

TCI PART# BS 30/96 - Jet Size

- Length 14mm, Outer Diameter 4mm

Jet Size: *(Increments)*

30 thru 60 (2.5)



Low Speed Tuning for Super BN

TCI PART#N100.606 - Jet Size

- Length 6.5mm, Outer Diameter 4mm
- 4mm thread

Jet Size: *(Increments)*

50 thru 150 (2.5)



OEM for TMX CR, RM, YZ, KX

TCI PART#N224.103 - Jet Size

- Length 28mm, Outer Diameter 5mm, Inner Diameter 2.5mm
- Has groove above thread area

Jet Size: *(Increments)*

10 thru 17.5

10 thru 70 (2.5)



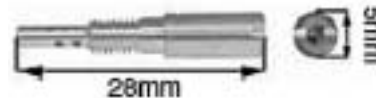
Fits all RS & HSR Carburetors and late model Suzuki RM 125/250

TCI PART# VM28/486 - Jet Size

- Length 28mm, Outer Diameter 5mm, Inner Diameter 2mm
- Thread 4mm x 0.70mm

Jet Size: *(Increments)*

10 thru 70(2.5)



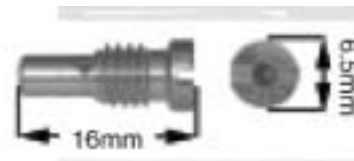
Pilot Jet for B-Type Butterfly Carburetors

TCI PART#N101.043 - Jet Size

- Length 16mm, Outer Diameter 6.5mm

Jet Size: *(Increments)*

30 thru 110 (2.5)



Non-Bleed Type

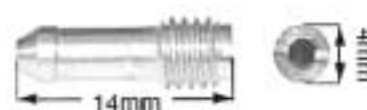
Used in many original equipment carburetors OEM for new Triumph

TCI PART#N151.067 - Jet Size

- Length 14mm, Outer Diameter 4mm

Jet Size: *(Increments)*

30 thru 60 (2.5)



OEM Carbs, Banshee

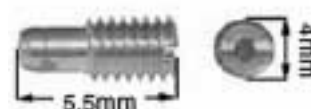
Banshee OEM , OEM applications

TCI PART#M28/1001 - Jet Size

- Length 5.5mm, Outer Diameter 4mm

Jet Size: *(Increments)*

15 thru 70 (2.5)



AIR JETS / STARTER JETS

AIR JET

TCI PART# BS 30/97 - Jet Size

- Length 7.5mm
- Thread 4mm x 0.70mm
- A fine tuning component in regulating air-fuel mixture
- Meters air flow to the needle jet
- For most Mikunis

Jet Size: *(Increments)*

.5 thru 2.0 (.1)



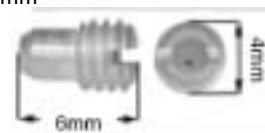
STARTER JET (special order)

TCI PART#VM17/1002- Jet Size

- Controls enricher on TM carburetors
- Length 6mm, Outer Diameter 4mm

Jet Size: *(Increments)*

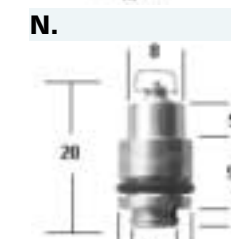
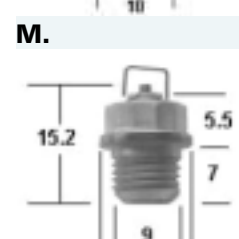
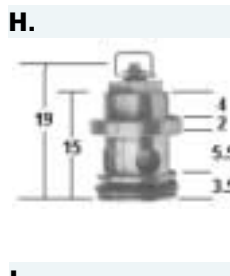
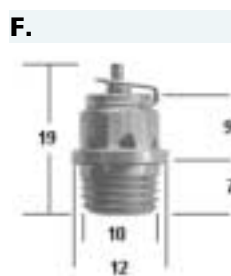
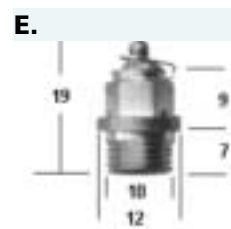
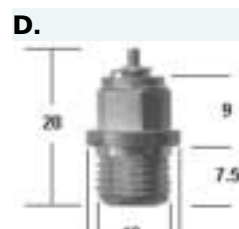
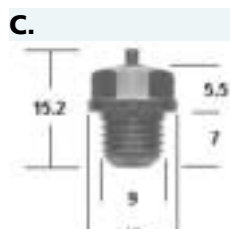
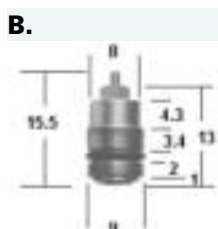
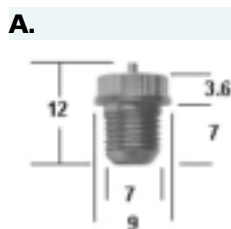
15 thru 120 (1.0, 1.5, 2.0)



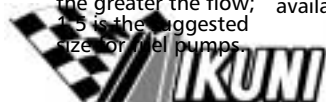
NEEDLES & SEAT ASSEMBLIES (AKA NEEDLE VALVE)

- terminates and regulates the rate of flow of fuel from the gas tank to the float bowl assembly.

Pic	Application		Standard Needle & Size		Viton Tip Needle & Size	
			TCI #	Available Size	TCI #	Available Size
A	VM18, VM20	Threaded	VM15/172	1.2, 1.8		
B	VM28 Flat Slide	Push-in	VM24/557	1.5, 2.0, 2.5		
C	VM26,28 Round Slide BN34, 38, 44 Watercraft	Threaded	VM26/26	1.5,2.0,2.5,2.8	VM26/185	1.2, 1.5
D	VM30 thru 44	Threaded	VM28/163	1.2, 1.5, 1.8, 2.0, 2.5, 3.0	VM28/511	1.5, 1.8, 2.0
E	VM30 thru 44	Threaded	VM34/39	2.5, 3.5		
F	VM30 thru 44	Threaded	VM38/11	3.5 (six holes)		
	VM29,33Smoothbore	Threaded	N122/032	2.5, 2.8		
G	HS40 Harley-Davidson	Push-in			786-36007	3.8
H	HSR42,45	Push-in			786-27001	2.3, 3.5, 4.2(std)
J	TM32, 34, 36, 38 Flat Side	Push-in			786-46001	1.2, 1.5, 1.8, 3.3, 3.5
K	RS38, 36, 38, 40	Push-in	N149.040	2.0, 2.5, 2.8		
L	TMX35, 38		786-36004	3.5		
L	TMX35, 38		786-36004 A	1.8		
M	BN34, 38, 44 Watercraft Carb	Threaded			786-15005	1.5, 2.0, 2.5
N	Super BN38, 44 Watercraft	Push-in			786-35015	1.5, 2.0, 2.3, 2.5
O	Super BN38,44	Solid-type	786-15008	1.5,2.0,2.3,2.5		
P	TM33 - OE		N133/200	1.2,1.5,1.8,2.0,2.3		



- The larger the size the greater the flow; 1.5 is the suggested size for fuel pumps.
- O. and P. pictures not available

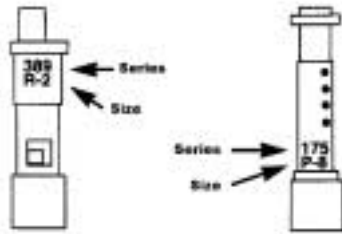




NEEDLE JETS

Needle Jets (a.k.a. Nozzles, Emulsion Tubes)

- Main fuel passage together with the needle controlling 1/4 to 3/4 throttle range.



Example on How to Order

TCI Part# VM34/05 P-2

- Series #159 (VM34/05) is outside characteristics
- 'P' is inside diameter size in increments of .050 mm
- '2' is inside diameter size in increments of .005mm

Carb App.	VM26 Round	VM29 ↓ VM33 Smoothbore	New TMX Dirtbikes
Part #:	VM28/86	VM28/16	784-13005
Leanest ↑ ↓ Richest	O-0	O-0	S-4
	O-2*	O-2*	S-7
	O-3*	O-4	S-8
	O-4*	6	S-9
	Q-2*	8	T-0
		P-0	
		2	
		4	
		6	
		8	
Type	Primary	Bleed	
Series #	182	261	633

Carb App.	VM30 ↓ VM36 Round Slide		VM38 Round Slide	VM28 ↓ VM30 Small Body	VM28 Round TM28 Flat	VM30 ↓ VM36 Round Slide	VM40 ↓ VM44 Round	YAM OEM	TM32 ↓ TM38 Flat Slide	TM33 Flat Slide	RS34 ↓ RS40, HS40	HSR 42/45
Part#:	VM34/05	VM26/17	VM34/17	VM30/38	VM30/46	VM32/19	VM44/10	VM38/41	785-2400 1	784-24005	784-13002	784-43000
Leanest ↑ ↓ Richest	N-4*	Q-2	N-6*	N-4*	O-0	O-4*	Q-5	N-6*	O-0*	P-8*	O-6*	Y-2
	6*		8*	6*	4	6*	Z-0	8*	2*	Q-0*	8*	4
	8*		O-0*	8*	6*	P-4*	2*	O-0*	4	2*	P-0	6
	O-0		2*	O-0*	8*	8*	4*	2*	6	4*	2	8
	2		4	2*	P-0		5	4	8		4	2-0*
	4		5*	4*	2		6	6*	P-0		6	
	5		6	6*	4		8*	8*	2		8	
	6		8	8*	5*		AA-0	P-0	4		Y-0*	
	8		P-0	P-0	6		2	2	2		2*	
	P-0		2	2	Q-0*		4	4	4		4	
	2		4	4	2		5	5	5	Q-0	6	
	4		5	5	4		6	6	6	2	8	
	5		6	6	6*		7	8	8	4	Z-0*	
	6		8	8	8*		8	8	Q-0	6	2*	
	8		Q-0	Q-0			BB-0	2	2	8	4*	
	Q-0		2	2			-5	4	4	R-0	6*	
	2		4	4			CC-0	5	2	2	AA-0*	
	4		5	5*			-5	6	4	4	BB-0	
	5		6	6*				8	6	6		
	6		8	8				R-0	8	8		
8		R-0	R-0				2*					
R-0		2	2				4*					
2		4	4				6*					
4		5	5				8*					
5*		6	6									
6*		8	8									
8*												
Type	Primary	Primary	Primary	Primary	Bleed	Bleed	Primary	Primary	Primary		Non-Bleed	Non-Bleed
Series #	159	164	166/480	169	175	176	224	247	389	499	568	723

* Special Order (not a stocking item)



THROTTLE VALVES

Throttle Valve (a.k.a. Cutaway or Slide)

- Affects the air-fuel mixture from 1/8 to 1/2.
- The larger the cutaway (size), the more air flows, which causes a leaner condition.



Note: Brass slides are chrome plated; aluminum slides are anodized, xylan or nickel-plated.

Carb Application	Part Number	Cut-A-Way Sizes Available	Slide Material	Idle Screw Location	Guide Pin Groove Width (mm)
VM26-28	VM28/56 -	1.5, 2.0	Brass	Left	2.05
VM30 Small Body	VM30/176 -	1.0, 1.5, 2.0, etc.	Brass	Left	2.05
VM30, 32, 34	VM32/65 -	1.5 thru 3.5	Brass	Right	2.60
VM30, 32, 34	VM34/110 -	1.0 thru 3.5	Brass	Left	2.60
VM32, 34 Flange Style Carbs	VM28/156-	1.5, 2.0, 2.5	Brass	Left	2.05
VM36	VM36/36 -	1.5 thru 3.5	Brass	Left	3.05
VM36	VM36/39 -	3.0, 3.5	Brass	Right	3.05
VM38	VM38/24 -	1.0 thru 3.5	Brass	Right	3.05
VM38	VM38/52 -	1.5 thru 3.0	Brass	Left	3.05
VM40, 44	VM40/02 -	0.5 thru 4.0	Alum.	Left	3.05
VM40, 44	VM44/23 -	1.5 thru 4.0	Brass	Left	3.05
TM32.34	832-39012 -	4.0	Alum.	Left	
TM36, 38-1,3	832-43002 -	1.5 thru 5.0	Alum.	Left	
TM38-85, 86	832-43011 -	2.5 thru 4.5	Alum.	Left	
TMX35, 38	832-014 -	2.5 thru 6.0	Alum.	Left	
TMS38, 250	832-017-250 -	N/A	Alum.	Left	
TMS38, 125	832-017-125 -	N/A	Alum.	Left	

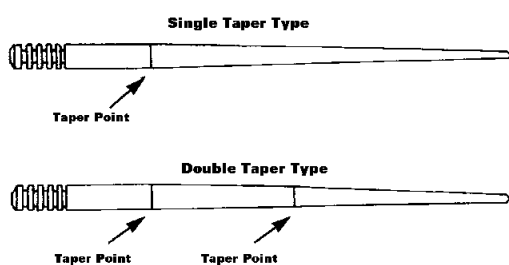
For prices see page 194

NEEDLES

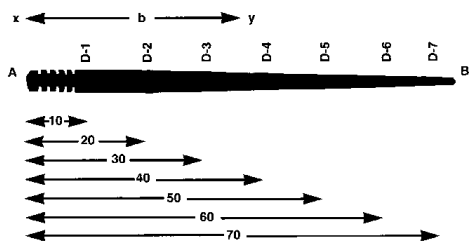
Needles (a.k.a. Jet Needle)

- Controls fuel amount in the / to / throttle operation.
- A thinner taper needle will be richer and a thicker needle will be leaner.

Two Types of Needles



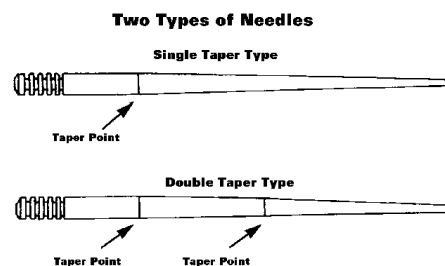
	A	B	D-1	D-2	D-2	D-4	D-5
	D-1 thru D-5 indicates diameter (mm) at each point.						
J8-4E1	50.3	28.0	2.515	2.515	2.345	2.127	1.924
J8-4DG6	50.3	24.0	2.518	2.518	2.405	2.119	1.850
J8-4J13	50.2	24.0	2.513	2.513	2.230	1.800	1.400
J8-4L6	50.3	24.5	2.515	2.515	2.178	1.660	1.190
J8-4F10	50.2	24.5	2.513	2.513	2.385	2.135	1.877
J8-4J11	41.5	21.3	2.512	2.506	2.188	1.776	
J8-4J6							
J8-4D2							



	A	B	C	D-1	D-2	D-3	D-4	D-5
	D-1 thru D-6 indicates diameter (mm) at each point.							
J8-5FJ9	59.2	35.0	2.517	2.517	2.517	2.364	2.021	
J8-5DI20	59.1	28.2	2.520	2.520	2.479	2.311	1.980	
J8-5F3	58.0	27.4	2.519	2.519	2.419	2.135	1.863	
J8-5EJ11	60.3	28.5	2.515	2.515	2.515	2.241	1.839	1.420
J8-5FL11	60.3	28.2	2.518	2.518	2.438	2.175	1.740	1.256
J8-5FL14	58.0	28.0	2.520	1.520	2.440	2.170	1.735	
J8-5FL7	58.0	28.0	2.518	2.518	2.440	2.170	1.735	
J8-5DP7	57.6	26.4	2.512	2.512	2.440	2.259	1.580	
J8-5J6	58.0	27.5	2.518	2.518	2.340	1.890	1.450	
J8-5L1	58.0	27.0	2.518	2.518	2.330	1.811	1.297	
J8-5J9	58.0	27.0	2.522	2.520	1.432	1.996	1.505	
J8-5D1	53.5	27.6	2.510	2.510	2.496	2.338	2.169	
J8-5DP2	60.3	32.4	2.515	2.514	2.513	2.418	2.067	1.418
J8-5D5	57.6	30.0	2.513	2.513	2.510	2.366	2.205	
J8-5DH21	52.3	16.5	2.515	2.470	2.465	2.328	2.024	
J8-5J11								
J8-5FL17								

NEEDLES (A.K.A. JET NEEDLE) CON'T.

	A	B	D-1	D-2	D-3	D-4	D-5	D-6
			D-1 thru D-6 indicates diameter (mm) at each point.					
J8-6DH2	62.3	28.0	2.511	2.511	2.466	2.295	2.000	1.660
J8-6F9	62.3	28.9	2.516	2.516	2.475	2.210	1.949	1.678
J8-6CF1	61.5	29.5	2.512	2.512	2.429	2.240	1.974	1.710
J8-6FJ6	62.3	35.2	2.505	2.505	2.505	2.376	2.040	1.606
J8-6DH3	62.3	22.0	2.512	2.512	2.458	2.286	1.948	1.607
J8-6J3								
J8-6L1	62.3	37.0	2.512	2.512	2.512	2.335	1.826	1.313
J8-6DP17	62.3	32.1	2.518	2.518	2.518	2.372	1.834	1.141
J8-6N1	62.3	37.0	2.514	2.514	2.514	2.278	1.672	1.058
J8-6DP1	62.3	28.9	2.511	2.511	2.476	2.312	1.748	1.075
J8-6F3	60.5	34.2	2.512	2.512	2.512	2.313	2.050	
J8-6DH4	62.3	25.5	2.520	2.520	2.440	2.258	1.915	1.575
J8-6J1	64.0	36.2	2.517	2.517	2.517	2.339	1.919	1.495
J8-6DH7	62.2	28.5	2.516	2.516	2.505	2.316	2.009	1.688
J8-6DH8	62.2	20.3	2.538	2.538	2.436	2.208	1.827	1.497
J8-6FL14	62.1	26.7	2.538	2.538	2.538	2.233	1.649	1.218
J8-6F15	62.2	19.8	2.535	2.538	2.461	2.208	1.979	1.649
J8-6DP10	62.4	26.5	2.51	2.51	2.44	2.26	1.56	.89
J8-6F13	64.2	32.8	2.50	2.46	2.46	2.24	1.97	1.70
J8-6DJ30	64.7	26.3	2.51	2.51	2.45	2.09	1.66	1.24
J8-6F5	62.3	19.0	2.515	2.456	2.454	2.364	2.098	1.840
J8-6F4	62.3	19.4	2.515	2.442	2.436	2.206	1.939	1.678
J8-6F8	62.3	21.5	2.512	2.512	2.386	2.214	1.945	1.688
J8-6F16	64.6	18.4	2.520	2.404	2.400	2.201	1.941	1.679
J8-6FJ4								
J8-6FJ11								
J8-6FJ40								
J8-6FJ41								
J8-6FJ43								
J8-6DH10								
J8-6DP4								
J8-6FI6								

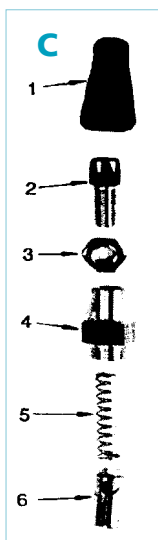
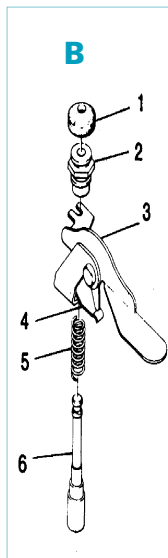
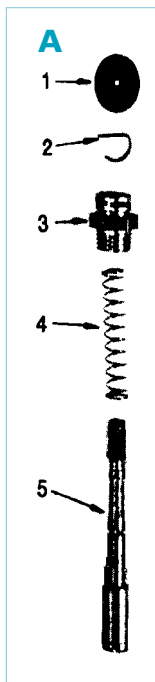


NEEDLES (A.K.A. JET NEEDLE) CON'T.

	A	B	D-1	D-2	D-3	D-4	D-5	D-6	D-7
	D-1 thru D-7 indicates diameter (mm) at each point.								
7DH5	72.2	27.4	2.98	2.98	2.94	2.78	2.44	2.08	1.72
7F7	72.3	33.1	2.99	2.99	2.99	2.80	2.54	2.28	2.02
7F6	72.3	29.0	3.00	3.00	2.95	2.68	2.41	2.14	1.87
7DH3	72.5	28.1	2.98	2.98	2.96	2.80	2.47	2.11	1.76
7DH2	75.3	31.6	2.99	2.99	2.99	2.84	2.66	2.27	1.92

Jet Needle Number	Applications	Needle Diameter Before Taper (mm)	Air Fuel Ratio
J8-6FJ41	TM38 Flatslide	2.522	Leanest
J8-6FM46		2.522	↕
J8-6FJ40		2.522	↕
J8-6DP04		2.515	Richest
J8-6EJ12-60	TMX38 Flatslide	2.60	Leanest
59		2.59	↕
58		2.58	↕
57		2.57	↕
56		2.56	↕
55		2.55	↕
54		2.54	↕
53		2.53	Richest
J8-6EN11-58	TMX35 Flatslide	2.58	Leanest
57		2.57	↕
56		2.56	↕
55		2.55	↕
54		2.54	↕
53		2.53	↕
52		2.52	↕
51		2.51	Richest
J8-6CEM01, 02, 03, 04, 05			Leanest
59			↕
58			↕
57			Richest

CHOKE SYSTEMS



A. Pull-Up Type

1. Rubber Cap	VM20/455	36 - 44 Spigot
2. Clip	VM14SC11/99	36 - 44 Spigot
3. Fitting	VM20/300	36 - 44 Spigot
4. Spring	VM14SC11/89	36 - 44 Spigot
5. Starter Plunger	VM38/06	36 - 44 Spigot

B. Lever Type

1. Rubber Cap	VM20/455	All
2. Fitting	VM20/456	All
3. Lever	VM28/51A	28 Spigot
	VM32/53	30 thru 44
4. Spring Plate	VM26/09C	26 & 28 Spigot
	VM32/17	30 thru 44
5. Spring	VM14SC11/89	All
6. Starter Plunger	VM15/62	24 thru 28
	VM18/144	30 thru 44

C. Cable Type

- Complete kit available that contains all parts for "C" cable type. See Cable Starter Kit below.

Complete Kit for Cable Choke 724-4751

- Individual pieces are also available:

1. Rubber Cap	VM26/46	30 thru 44
2. Cable Adjuster	M18F/43	30 thru 44
3. Lock Nut	B30/247	30 thru 44
4. Plunger Fitting	VM15/37	30 thru 44
5. Spring	VM14SC11/89	30 thru 44
6. Starter Plunger	VM15SC4/85	30 thru 44

FLOAT BOWLS

Transparent Float Bowl

- Proper fuel level and harmful sediment visible
- Transparent drain plug

Float Bowl VM26-28

PB 26



Adjustable Float Bowl

- Outside adjustment mechanism consists of an adjustable needle with a tapered seat which meters the fuel flow. The needle fine tunes the main jet enabling the user to lean or enrich the fuel mixture as desired

VM36 & 38 Mikuni Carbs

VM36/102B

O-Ring

BV32/04

Washer

VM20/169

Jet Setter

VM36/55

MIKUNI FUEL PUMP RHINO REBUILD KIT



Yamaha Rhino Fuel Pump Kit MK-DF52-531

Contents:

- 1 Thick Rubber Gasket (DF42/105)
- 2 Clear Film Diaphragms (DF52-48/10)
- 2 Thin Rubber Gaskets (DF52-48/05) / (DF52/113)
- 1 Thick Fiber Gasket (DF52/27A)
- 2 Clear Valves (DF52/27A)
- 2 Black Grommets (DF44/26)

CARBURETOR SCREWS

DESCRIPTION	TCI PART#	THREAD DIAMETER	THREAD LENGTH
Standard Phillips Machine	C2=0406	4 mm	5 mm
	C2=0416	4 mm	16 mm
	C2=0518	5 mm	18 mm
Countersunk Machine	C6-0307	3mm	7mm
Flush-Countersunk Machine	C5-0414-G	4 mm	11 mm
Std. Phillips Machine Washer	CW2=0305	3 mm	4 mm
	CW2=0308	3 mm	7 mm
	CW2=0310	3 mm	9 mm
	CW2=0406		
	CW2=0408	4 mm	7 mm
	CW2=0412	4 mm	10 mm
	CW2=0414-B	4 mm	14 mm
	CW2=0414	4 mm	12 mm
	CW2=0416	4 mm	15 mm
	CW2=0516	5 mm	15 mm
	CW2=0518	5 mm	18 mm



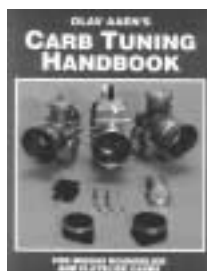
Power Jet Kit MK-406

560-MK406



- Power Jet Kits are used in two-stroke engine applications to improve mid-range throttle response and add additional fuel to wide open throttle running conditions, especially with snowmobile applications.
- Kit may be installed easily on Mikuni TM and VM Series Motorcycle and Snowmobile carburetors.

MANUAL



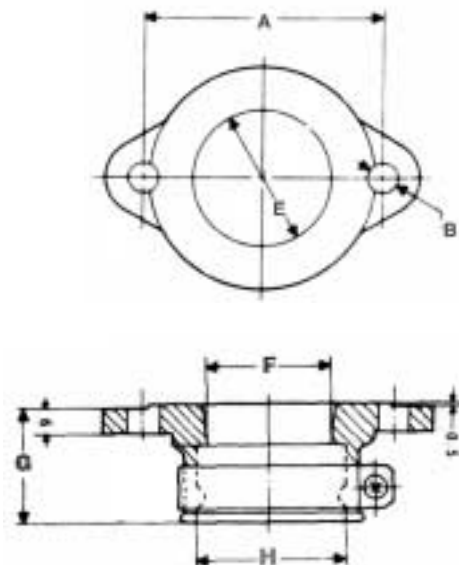
Carb Tuning Handbook

215-B16002

- This updated book covers the basics in carb tuning, testing, and racing. Mikuni's VM round slide carbs, TM flatside carbs, and the new TMX are discussed in detail.
- A must for those who want to get the most out of their engine. Learn how to diagnose your carbs performance, use correct testing procedures, and calibrate with the right tools.

MIKUNI CARB MOUNTING FLANGES

- Most older snow machines that have common engines (Kolher, Xenoah, Kawasaki, CCW, etc) used standard Mikuni carbs or other carbs that can be switched to use Mikuni carbs.
- Use measurement chart to select correct flange.



TCI Part#		A = Engine Mount Bolt Hole	B = Bolt Hole Size	F = Carb Bore Size	G = Flange Throat Depth	H = Carb Spigot Diameter	Typical Carb Size
Mikuni	Taiwan						
	596-1003	60	8.5 mm	30	23	35	VM26
VM30/288	596-1001	57	8.5 mm	30	23	37	VM26~28
	596-1002	74.6 (HD)	8.5 mm	29.5	29	35	VM26~28
	596-1008	57.2 (HR)	8.5 mm	30	40.5	37	VM26~28
IVM28/200-1		60	8.5 mm	30	28	35	VM26~28
VM32/205	596-1013	75	8.5 mm	34	32	40	VM30~34
IVM34/200-1	596-1004	60	8.5 mm	36	25	40	VM30~34
	596-1005	60	8.5 mm	39.5	46	39.5	
IVM36/200-1	596-1006	70	8.5 mm	40	25	43	VM36~40
KHS-004		70-75	11 mm	40	28	43	VM36~40
IVM38/200-1	596-1014	75	8.5 mm	40	28	43	VM36~40
IVM40/200-1	596-1015	75	8.5mm	46	32	52	VM40~44
IVM44/200-1		84	11 mm	46	26	52	VM40~44
HS42/01-42		70-75	11 mm	42	25	45	VM42
HS42/01-45		70-75	11 mm	45	25	48	VM45
	596-1007	74.6 (HD)	8.5 mm	41.5	52	40	
HS42/01-48		70-78	11 mm	48	25	51	VM48

MAIN JETS FOR KEIHIN

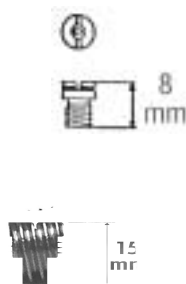
TCI PART# 31-3 - JET SIZE

- Thread 5.0mm x 0.80mm
- Length 8mm, OD 6mm

Jet Size: (Increments)

100 thru 200 (2,3,3,2)
(ie. 100, 102, 105, 108, 110)

- Keihin# N424-36
- Applications:
Kawasaki - CDK, CDKII



TCI PART# 31-4 - JET SIZE

- Thread 5mm x 0.8mm
- Length 16.5mm

Jet Size: (Increments)

100 thru 220
(ie. 100, 102, 105, 108, 110)

- Keihin# 99101-357
- Applications:
Keihin - FCR, CRS
Honda - PD, PE-34-38, PJ
Kawasaki - PWK
Harley - BD
Yamaha - BD
Polaris - PWK



SLOW JETS KEIHIN

TCI PART# 31-2 - JET SIZE

- Thread 6mm x 0.75mm
- Length 28mm

Jet Size: (Increments)

35 thru 80 (3,2,2,3)
(ie. 035, 038, 040, 042)

- Keihin# N424-21
- Applications:
Honda - PJ, PE 26-30
Kawasaki - PWK



TCI PART# 31-1 - JET SIZE

- Length 32mm
- OD 5.5mm

Jet Size: (Increments)

35 thru 80 (3,2,2,3)
(ie. 035, 038, 040, 042)

- Keihin# N424-24
- Applications:
Keihin - CRS



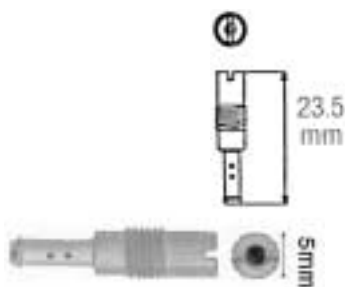
TCI PART# 31-5 - JET SIZE

- Length 23.5mm
- OD 5mm

Jet Size: (Increments)

35 thru 80 (3,2,2,3)
(ie. 035, 038, 040, 042)

- Keihin# N424-26



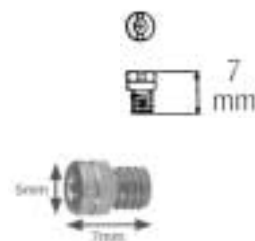
TCI PART# 31-6 - JET SIZE

- Length 7mm
- OD 5mm

Jet Size: (Increments)

50 thru 120 (2,3,3,2)
(ie. 050, 052, 055, 058)

- Keihin# N424-35
- Applications:
Kawasaki - CDK, CDKII



TCI PART# 31-7 - JET SIZE

- Thread 4.5mm x 0.75mm
- Length 45mm

Jet Size: (Increments)

38 thru 75 (3,2,2,3)
(ie. 035, 038, 040, 042)

- Keihin# N424-25
- Applications: CV, FCR

