

KEIHIN PWK Carburetors



Non Air Striker PWK33, 35, 36, 38, 39, 41



PWK36 Quad Vent



PWK 35, 38 Air Striker/Quad Vent

Keihin PWK Series Carburetors

Producing power without compromise, Keihin PWK carburetors have set the standard for ATV, motocross, and offroad racing carburetors. Because of their great performance, they come stock on a lot of leading brand names. PWK features include:

- Chromed semi-flat (D shape) throttle valve for excellent response and more flow at high RPM.
- Throttle Bores sized to give maximum power.
- Quad Vents - Eliminates post jump bogging from fuel plugged vent passages.
- PWK Air Strikers - Directs air to main nozzle for improved signal and throttle response.

PWK carburetors are available in Standard (Non Air Striker) and Air Striker/Quad Vent. Sold each.

PWK (Non Air Striker) Standard Jetting Specifications

Carburetor	Main Jet	Slow Jet	Jet Needle	Throttle Valve Cutaway	Float Height	Description/Mark	Order No.
PWK28	#135	#38	46-JJH	3.5	19mm	PWK28/29S	016-144
PWK33	#165	#52	48-CGL	6.0	16mm	PWK33/S46	016-148
PWK35	#160	#68	48-DGK	6.0	16mm	PWK35/70R	016-150
PWK38	#172	#58	48-DEG	6.0	16mm	PWK38/71R	016-153
PWK39	#160	#60	48-DGH	6.0	16mm	PWK39/72R	016-155
PWK41 Pro-Series	#160	#60	48-DGH	6.0	16mm	PWK41 Pro-Series	016-156

PWK Quad Vent/Air Striker Standard Jetting Specifications

PWK35 Quad Vent/Air Striker	#160	#48	48-DEK	4.5	16mm	PWK35 A.S./S65	016-160
PWK36 Quad Vent	#165	#55	48-DGJ	5.0	16mm	PWK36/S63	016-163
PWK38 Quad Vent/Air Striker	#170	#55	48-DDJ	7.0	16mm	PWK38 A.S./S66	016-167

Note: * X00 represents product code stamped on the carburetor body just above the float bowl.

PWK Special Set Carburetors

Use the following part numbers when ordering for special jetting request. **Please note:** Special Set carburetors are pre-jetted to your request or specific application. Please specify exact jetting details or bike application for each special set carburetor ordered.

Carburetor	Description/Mark	Special Set Order No.
PWK28 Non Air Striker	PWK28/29S	016-189
PWK33 Non Air Striker	PWK33/S46	016-191
PWK35 Non Air Striker	PWK35/70R	016-192
PWK35 Quad Vent/Air Striker	PWK35 A.S./S65	016-197
PWK36 Quad Vent	PWK36/S63	016-198
PWK38 Non Air Striker	PWK38/71R	016-194
PWK38 Quad Vent/Air Striker	PWK38 A.S./S66	016-199
PWK39 Non Air Striker	PWK39/72R	016-195



Sudco Choke Cable System for all PWK's

Includes parts A thru F. listed below. All PWK carburetors.

Order No. [018-501](#)

A.	Cable Sealing Cap	16118-166-0040	018-002
B.	Choke Plunger	W1275-028-9901	021-512
C.	Choke O-Ring	0901-069-6000	021-527
D.	Spring	1290-922-2000	021-582
E.	Cable Holder	W1551-140-9900	021-583

KEIHIN PWK28 Exploded View

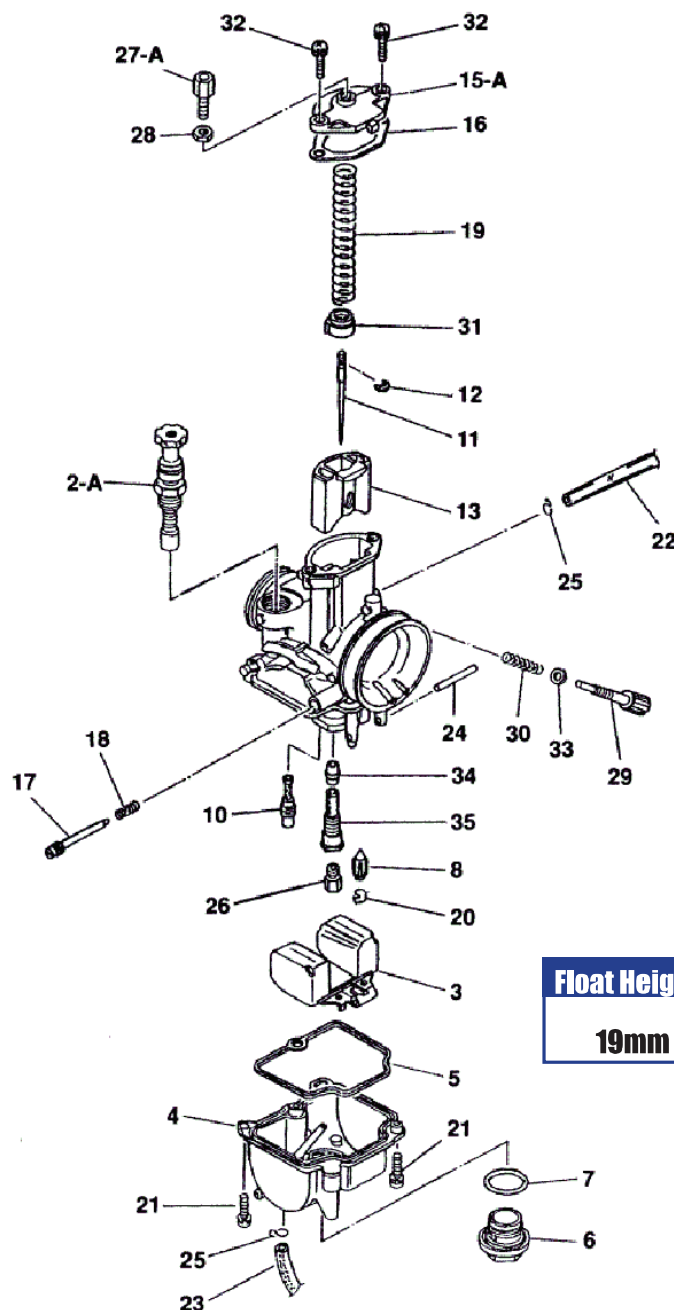
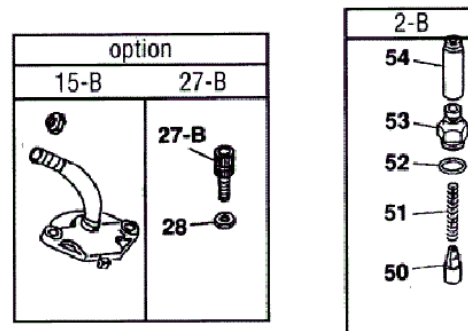
PWK28 Replacement Parts

Keihin Part No. Highlighted in **BOLD RED** are included in rebuild kit.

No.	Description	Keihin No.	Order No.
2A.	Starter Valve (pull knob) Complete	1166-818-2100	018-500
2B.	Choke Cable System Complete		018-501
*See individual parts with asterisk *50, *51, *52, *53, *54			
3.	Float	W1310-080-9901	018-397
4.	Float Bowl Complete	N350-03A00	018-575
5.	Gasket, Float Bowl	W1354-042-9900	018-406
6.	Plug Screw	16162-ND4-7511-M1	018-128
7.	O-Ring, Plug Screw	16173-001-0040	018-664
8.	Float Valve Complete	W1362-020-9901	018-389
10.	Slow Jet	N424-21-xxx	Pg.148
11.	Jet Needle	N427-46-xxx	Pg.147
12.	Clip, Jet Needle	16115-169-0040	018-033
13.	Throttle Valve	N502-11H00 #3.5	018-582
	Throttle Valve, Chrome (see chart)	N502-52H00 #3.5	018-590
15A.	Top Cover	1030-844-2000	021-575
15B.	Top Cover (option)	1030-843-2200	021-586
16.	Gasket, Top	1202-837-2000	018-566
17.	Air Adjust Screw	W1446-231-9900	018-089
18.	Spring, Air Adjust Screw	W1711-416-9900	018-090
19.	Spring, Throttle Valve	1290-921-2000	018-532
20.	Clip, Float Valve	0405-013-1000	021-576
21.	Screw, Float Bowl	N114-04160	021-577
22.	Bowl, Vent Pipe	W9404-40090	021-578
23.	Overflow Pipe	95003-07042-31	018-534
24.	Float Pin	W9525-25250	018-670
25.	Clip	W9535-35000	018-098
26.	Main Jet (hex type)	99101-357-xxx	Pg.150
26A.	Main Jet SDGAA (round type)	99101-393-xxx	Pg.150
27A.	Cable Adjuster	W9581-59250	018-005
27B.	Cable Adjuster	1036-804-2000	018-542
28.	Nut, Cable Adjuster	W1793-130-9900	018-008
29.	Idle Adjuster	1034-831-2000	018-568
29.	Idle Adjuster (for Chrome T/V)	1034-853-2000	018-569
30.	Spring, Idle Adjuster	1290-923-2000	018-562
30.	Spring, (for Chrome T/V)	1290-963-2000	018-574
31.	Collar, Throttle Spring	1022-805-7000	018-564
32.	Screw, Top Cover	N114-04140	021-580
33.	Washer, Idle Adjuster	0301-078-1200	021-101
34.	Needle Jet	16164-169-0040	018-560
35.	Needle Jet Holder SDGAA	N413-11A00	
35A.	Needle Jet Holder	N413-12A00	021-581
*50.	Starter Valve (Choke Plunger)	W1275-028-9901	021-512
*51.	Spring	1290-922-2000	021-582
*52.	O-Ring,	0901-069-6000	021-527
*53.	Cable Holder	W1551-140-9900	021-583
*54.	Cap	16118-166-0040	018-002

Note: If you see "SDGAA" on your carburetor's stamped portion, your main jet and needle jet holder have to be #parts 26A and 35.

NOTE: Do not remove parts that are not shown on this extended view.



Float Height
19mm

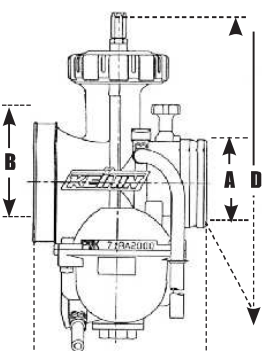
PWK28 Carburetor Dimensions

Size (mm)	A	B	C	D
PWK28	35	49	83	147.4

PWK28 Standard Jetting Specifications

Size (mm)	Main Jet	Slow Jet	Jet Needle	Throttle Valve	Float Height	Order No.
PWK28	#135	#38	46 JJH	3.5	19mm	016-144

Carburetors are intended for off-road riding and racing use only. Not legal for use in California or other locations where similar pollution laws may apply.





PWK 28 Throttle Valve Chart

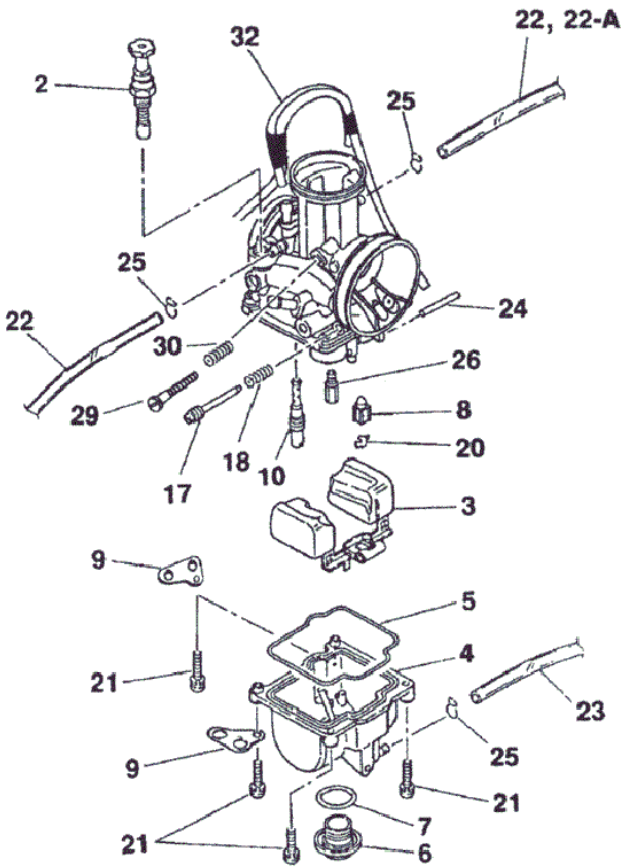
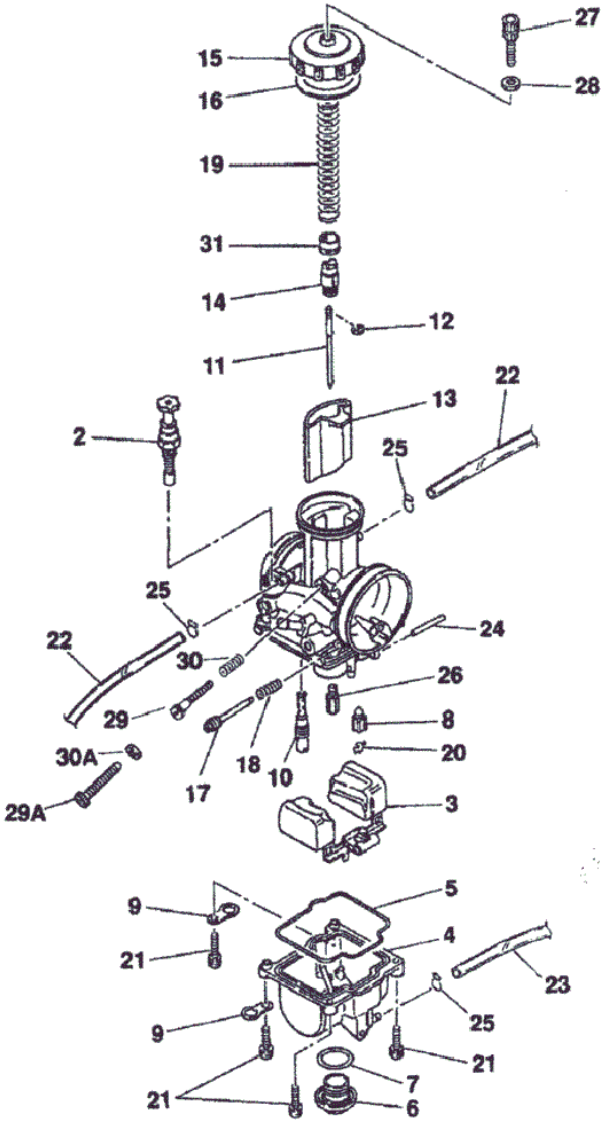
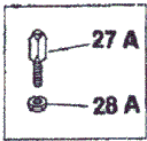
	Cutaway	Keihin No.	Order No.
Rich ↑ ↓ Lean	1.0	N502-52B00	018-584
	2.0	N502-52C00	018-585
	3.0	N502-52D00	018-586
	3.5 (Std)	N502-52H00	018-590
	4.0	N502-52E00	018-587
	5.0	N502-52F00	018-588
	6.0	N502-52G00	018-589

KEIHOIN PWK33-41 Exploded View

Non Air Striker PWK33, 35, 36, 38, 39, 41

Quad Vent/Air Striker

*See part numbers 11, 12, 14, 15, 16, 19, 27, 28, 31 from the drawing to the left.



NOTE: Do not remove parts that are not shown on this exploded view.

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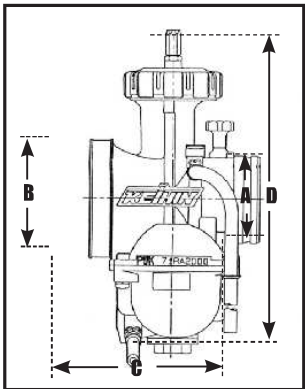
PWK Standard Jetting Specifications

Non Air Striker
Size (mm)

	Main Jet	Slow Jet	Jet Needle	Throttle Valve	Float Height	Order No.
PWK33/S46	#165	#52	48-CGL	6.0	16mm	016-148
PWK35/70R	#160	#68	48-DGK	6.0	16mm	016-150
PWK38/71R	#172	#58	48-DEG	6.0	16mm	016-153
PWK39/72R	#160	#60	48-DGH	6.0	16mm	016-155
PWK41 Pro-Series	#160	#60	48-DGH	6.0	16mm	016-156

Quad Vent/Air Striker

PWK35	#160	#48	48-DEK	4.5	16mm	016-160
PWK36 Quad Vent	#165	#55	48-DGJ	5.0	16mm	016-163
PWK38	#170	#55	48-DDJ	7.0	16mm	016-167



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Float Height
16mm

Size (mm)	A	B	C	D
PWK33	42	59	91	164.3
PWK35	42	59	91	163.3
PWK36	46	63	91	176.6
PWK38	46	63	91	171.6
PWK39	46	63	91	171.6
PWK41	46	63	91	171.6

PWK 33-41 Replacement Parts

Keihin Part No. Highlighted in **BOLD RED** are included in rebuild kit.

No.	Description	Application	Keihin No.	Order No.
2A. Starter Valve (pull knob) Complete				
	All PWK	1166-818-2100	018-500	
2B.	Choke Cable System	All PWK		018-501
3.	Float	All PWK	W1310-079-9921	018-110
4.	Float Bowl Complete	All PWK	W1350-311-9910	018-502
5.	Gasket, Float Bowl	All PWK	16163-ND4-7510-M1	018-113
6.	Plug Screw	All PWK	16162-ND4-7511-M1	018-128
7.	O-Ring, Plug Screw	All PWK	16173-001-0040	018-664
8.	Float Valve Complete	All PWK	1062-814-2100	018-504
9.	Anchor Plate			
	PWK33 Non Air Striker		16179-428-6711-M1	018-119
	PWK35 Non Air Striker		16179-428-6711-M1	018-119
	PWK36 Quad Vent		16179-KZ4-6900	018-505
	PWK38 Non Air Striker		16179-428-6711-M1	018-119
	PWK39 Non Air Striker		16179-428-6711-M1	018-119
	PWK41 Non Air Striker		16179-428-6711-M1	018-119
	PWK35 Quad Vent/Air Striker		16179-KZ4-6900	018-505
	PWK38 Quad Vent/Air Striker		16179-KZ4-6900	018-505
10.	Slow Jet	All PWK	N424-21-xxx	Pg.148
11.	Jet Needle	All PWK	N427-48-xxx	Pg.146
12.	Clip, Jet Needle	All PWK	16155-169-0040	018-033
13.	Throttle Valve		(see chart below)	
14.	Cable Holder	All PWK	1101-804-2000	018-526
15.	Top	All PWK	1030-840-2000	018-528
16.	Gasket	All PWK	W1593-051-9900	018-016
17.	Air Adjust Screw	All PWK	W1446-231-9900	018-089
18.	Spring	All PWK	W1711-416-9900	018-090
19.	Throttle Spring			
	PWK33 Non Air Striker		1290-917-2001	018-530
	PWK35 Non Air Striker		1290-917-2001	018-530
	PWK36 Quad Vent		1290-917-2001	018-530
	PWK38 Non Air Striker		1290-920-2000	018-531
	PWK39 Non Air Striker		1290-920-2000	018-531
	PWK41 Non Air Striker		1290-920-2000	018-531
	PWK35 Quad Vent/Air Striker		1290-917-2001	018-530
	PWK38 Quad Vent/Air Striker		1290-920-2000	018-531
20.	Clip, Float Valve	All PWK	0405-019-1000	018-674
21.	Screw, Float Bowl	All PWK	93892-04016-18	018-122
22.	Bowl Vent Pipe			
	PWK33 Non Air Striker		95003-07042-31	018-534
	PWK35 Non Air Striker		95003-07042-31	018-534
	PWK36 Quad Vent		95003-07042-31	018-534
	PWK38 Non Air Striker		95003-07048-31	018-535
	PWK39 Non Air Striker		95003-07048-31	018-535
	PWK41 Non Air Striker		95003-07048-31	018-535
	PWK35 Quad Vent/Air Striker		95003-07048-31	018-535
	PWK38 Quad Vent/Air Striker		95003-07048-31	018-535

No.	Description	Application	Keihin No.	Order No.
22A.	Bowl Vent Pipe			
	PWK36 Quad Vent		95003-07048-31	018-535
23.	Overflow Pipe	All PWK	95003-05033-31	018-538
24.	Float Pin	All PWK	W9525-25250	018-670
25.	Clip	All PWK	W9535-35000	018-098
26.	Main Jet	All PWK	99101-357-xxx	Pg.150
27.	Cable Adjuster	All PWK	1036-804-2000	018-542
27A.	Cable Adjuster (25mm)	All PWK	W9581-59250	018-005
27B.	Cable Adjuster (20mm)	All PWK	W9581-59200	018-306
28.	Nut, Cable Adjuster	All PWK	0208-007-1100	018-544
28A.	Nut, Cable Adjuster	All PWK	W1793-130-9900	018-008
29.	Idle Adjuster (Plastic)	All	1034-853-2000	018-569
29A.	Idle Adjuster (Brass) For non chrome slides			
			1034-826-2002	018-546
30.	Spring	All PWK	1290-963-2000	018-574
30A.	Nut (use with 018-546)			
	PWK35 Non Air Striker		94002-05080-0S	018-548
	PWK38 Non Air Striker		94002-05080-0S	018-548
	PWK39 Non Air Striker		94002-05080-0S	018-548
	PWK41 Non Air Striker		94002-05080-0S	018-548
31.	Collar	All PWK	1118-929-7000	018-550
32.	Bowl Vent Pipe, Complete			
	PWK36 Quad Vent		16199-KZ3-6900	018-537
	PWK35 Quad Vent/Air Striker		16199-KZ3-6900	018-537
	PWK38 Quad Vent/Air Striker		16199-KZ3-6900	018-537
	O-Ring, Jet Block (not shown)		1202-834-2000	021-532



Sudco PWK33 - 41mm Carburetor Rebuild Kit

Sudco rebuild kit for Keihin PWK33-41 carburetors contains GENUINE Keihin replacement parts. Sold as a kit.

Description	Application	Order No.
PWK33-41mm	Motorcycle	020-110

PWK Throttle Valve Chart

	I.D. Mark	PWK33 N502-15x02	PWK35 N502-16x03	PWK36 Quad Vent N502-17x01	PWK38, 39, 41 N502-17x01	PWK35 Air Striker N502-15x02	PWK38 Air Striker N502-17x01
Rich ↑ ↓ Lean	0	_____	018-508	018-517	018-517	_____	018-517
	3.0	_____	018-509	018-518	018-518	_____	018-518
	4.0	_____	018-510	018-519	018-519	_____	018-519
	4.5	018-240	_____	_____	_____	018-240	_____
	5.0	018-241	018-511	018-520	018-520	018-241	018-520
	5.5	018-242	_____	_____	_____	018-242	_____
	6.0	018-243	018-512	018-521	018-521	018-243	018-521
	6.5	018-244	_____	018-525	018-525	018-244	018-525
	7.0	018-245	018-513	018-522	018-522	018-245	018-522
	8.0	_____	_____	018-523	018-523	_____	018-523
	8.5	_____	018-514	_____	_____	_____	_____
	9.0	_____	_____	018-524	018-524	_____	018-524
	9.5	_____	018-515	_____	_____	_____	_____