

# QUICKSHIFTER

Accessory for Power Commander III USB Models

## Dynojet Quick Shifter Kits

Normally during up shifting you must roll off of the throttle and pull in the clutch in order to engage the next higher gear. In racing (both drag and road race) split seconds count. Rolling off the throttle, even slightly, slows your times and can be the difference between winning and losing.

The Dynojet Quick Shifter (DQS) kit allows you to make full throttle, clutchless up shifts. Once installed, the rider can shift up simply by pressing or lifting (depending on the bike) the gear shift lever.

The amount of "kill time" is adjustable by the user via the provided software. The user can also set a minimum rpm for the system to function. This keeps the system from activating at too low of an rpm, such as low speed road riding.

The DQS is compatible with all PCIIusb's and plugs directly into the expansion port. No cutting or splicing of the bike's wiring is required.

*Note: PCII, PCIII, and PCIIIr model Power Commanders cannot use this kit*



Dynojet Research 2191 Mendenhall Drive North Las Vegas, NV 89031 (800) 992-4993 [www.powercommander.com](http://www.powercommander.com)

Fig. A



PULL - Part #4-101

PUSH - Part #4-102

There are three basic choices of switches that can be used to activate the DQS.

### **SHIFT ROD PRESSURE/TENSION SENSOR**

This sensor mounts in the shift rod. This is a universal sensor and the customer must provide the appropriate “length and thread” shift rod. This sensor (Fig. A) is available in both “push” and “pull” styles depending on the direction the shift rod moves during an up shift. For certain applications a Shift Rod Kit is offered. This is a direct replacement shift rod that will allow quick installation with no custom work required. See application section for details.

Fig. B



The Shift Rod Pressure/Tension Sensor is shown here installed on a Yamaha R6. (Fig. B)

Fig. C



PULL - Part #4-103

PUSH - Part #4-104

### **LINEAR TRAVEL SENSOR KIT**

For applications where a bike does not have a shift rod, or the pressure/tension sensor will not fit, we offer a Linear Travel Sensor (Fig. C). One end of this sensor is mounted to the shift lever itself and the other to a fix point on the chassis. This sensor is available in both “push” and “pull” style to suit all installations. A universal mounting kit is included.

Fig. D

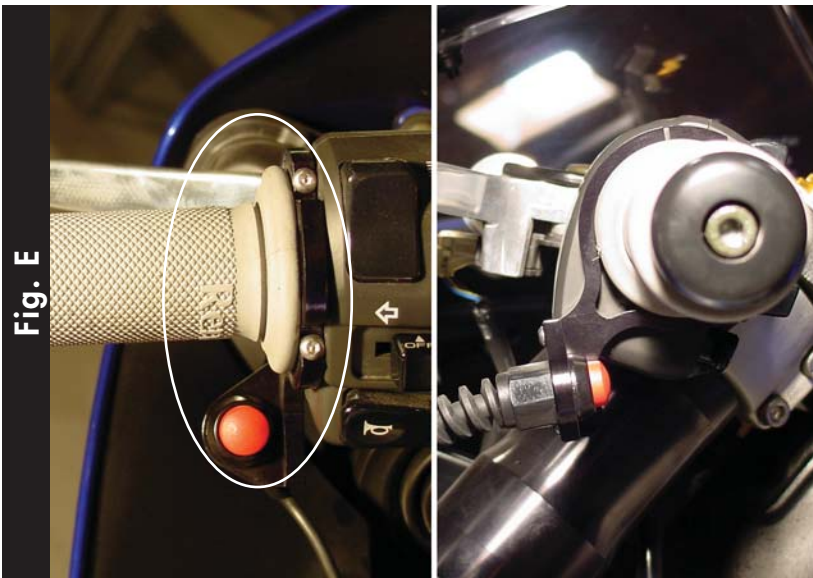


## HANDLEBAR MOUNTED SWITCH

A handlebar mounted activation switch (Fig. D) is offered for situations where a shift rod/lever mounted sensor is not legal for a particular racing organization, impractical to fit, or not preferred by the rider. To use this type of switch, the rider must first slightly preload the shift lever, press the handlebar mounted switch, and then complete the shifter movement.

Part #4-105

Fig. E



The Handlebar Mounted Switch is shown from two angles installed on a Yamaha R1 (Fig. E).

Fig. F

The screenshot shows the Power Commander 3 USB software interface. The main window displays a fuel table with columns for Throttle Position (0, 5, 10, 20, 40, 60, 80, 100) and rows for Engine Speed (RPM) from 1000 to 9000. A red arrow points to the 'Shift Kill' options in the software menu. The interface also includes a 'DynaJet POWER COMMANDER' logo, a serial number (SN: 030406003840), and various status indicators like % Throttle, RPM, Fuel Change, and Duty Cycle.

Engine Speed (RPM)	0	5	10	20	40	60	80	100
1000	0	0	0	0	0	0	0	0
1500	0	0	12	0	0	12	6	4
2000	0	7	11	20	20	6	3	-3
2500	0	20	7	10	20	20	18	24
3000	0	8	5	60	17	29	25	20
3500	0	7	8	20	8	22	18	15
4000	0	6	1	-1	8	30	39	37
4500	0	4	0	-10	-7	-4	13	9
5000	0	0	1	-13	-14	3	8	7
5500	0	0	0	-1	-15	-3	8	6
6000	0	0	0	3	55	-1	7	7
6500	0	0	-5	4	-5	8	13	10
7000	0	0	-4	10	4	17	15	6
7500	0	0	-2	8	6	12	10	6
8000	20	20	20	20	20	20	20	20
8500	20	18	20	20	20	20	20	20
9000	20	20	20	20	20	20	20	20

## ADJUSTMENTS

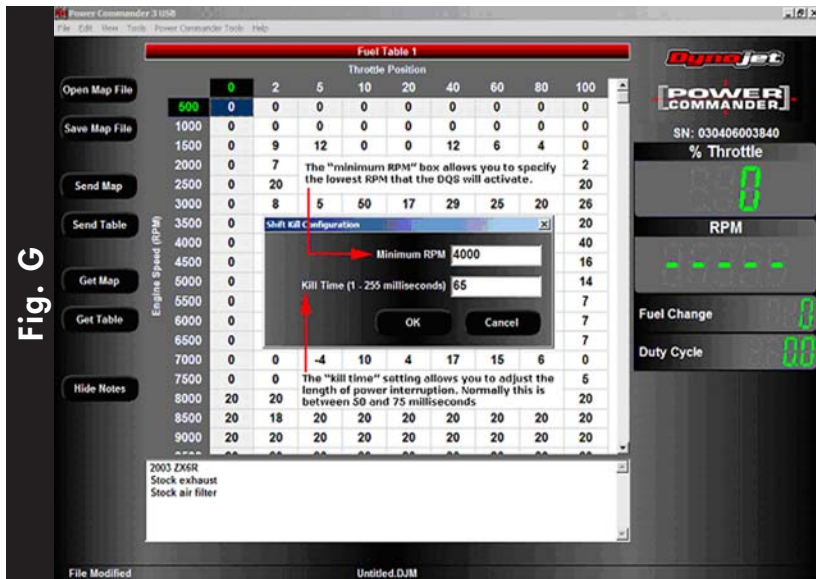
By using the Power Commander Control Center software, the user can adjust both the amount of power interruption (shift “kill” time) and the minimum RPM at which the system will activate. We provide a very easy to use interface for this adjustment (Figs. F & G).

## CHOOSING THE CORRECT SENSOR

When ordering either the Shift Rod Pressure/Tension Sensor or the Linear Travel Sensor, you must make sure to order the correct one for the direction of movement during the upshift (push or pull). If using the shift rod pressure/tension sensor, press on the shift lever in the direction of an upshift and watch to see if the shift rod is “pushing” or “pulling” on the clevis on the shift shaft. This will determine which type is needed. If using the linear travel sensor move the shift lever in the direction of an upshift. If this movement is “down” then a “pull type” sensor is required. If this movement is “up” then a “push type” sensor is required.

## SHIFT ROD KITS

For most models of bikes, we will offer universal Shift Rods that include all of the necessary pieces to install the DQS without custom parts needing to be made. These kits are only for stock footrest assemblies shifting in the normal “street pattern” (1 down, 5 up) unless otherwise specified.



## Dynojet Quick Shifter Accessory Guide and Application List

Description	Part No.	Price
Shift Rod Tension Sensor (Pull Type)	4-101	\$266.47
Shift Rod Pressure Sensor (Push Type)	4-102	\$266.47
Linear Sensor (Pull Type) including mounting kit	4-103	\$266.47
Linear Sensor (Push Type) including mounting kit	4-104	\$266.47
Handlebar Switch	4-105	\$96.62
Female/Female Shift Rod A (Black Anodized Aluminum)	32104060	\$12.35
Male/Male Shift Rod B (Black Anodized Aluminum)	32104050	\$12.35
Male/Female M6 Shift Rod C (Black Anodized Aluminum)	32104030	\$10.29
Male/Female M8/M6 Shift Rod D (Black Anodized Aluminum)	32105030	\$10.29
Dealer Universal Shift Rod Kit (Rods - A, B, C, D)	4-106	\$38.00

Model	Quick Shifter Sensor	Universal Shift Rods			
		Rod A	Rod B	Rod C	Rod D
<b>Aprilia</b>					
04 RSV Mille		<i>In Development</i>			
03-04 Tuono		<i>In Development</i>			
<b>Ducati</b>					
03-04 749	4-102	✓	-	-	-
99 750 & 900 SS		<i>In Development</i>			
00-01 750 & 900 SS		<i>In Development</i>			
00-01 Monster 900	4-102	✓	-	-	-
03-04 Monster 800 sie	4-102	✓	-	-	-
03-04 Monster 1000 sie	4-102	✓	-	-	-
03-04 999	4-102	✓	-	-	-
<b>Honda</b>					
01-04 CBR 600 F4i	4-102	-	✓	-	-
03-04 CBR 600 RR		<i>In Development</i>			
00-01 CBR929 RR	4-102	✓	-	-	-
02-03 CBR954 RR	4-102	✓	-	-	-
04 CBR1000 RR		<i>In Development</i>			
03-04 Varadero 1000		<i>In Development</i>			
03-04 CB 1300		<i>In Development</i>			
02-04 VTX 1800		<i>In Development</i>			
<b>Kawasaki</b>					
03-04 ZX-6 R	4-102	✓	-	-	-
03 ZX-6 RR	4-102	✓	-	-	-
04 ZX-6 RR		<i>In Development</i>			
04 Z750		<i>In Development</i>			
99-04 1500 Drifter		<i>In Development</i>			
00-04 1500 Nomad		<i>In Development</i>			
00-03 1500 Vulcan Classic		<i>In Development</i>			
02-03 Mean Streak		<i>In Development</i>			
04 Mean Streak 1600		<i>In Development</i>			
03-04 1600 Classic		<i>In Development</i>			
03-04 Z1000	4-104	-	-	-	-
04 ZX-10R		<i>In Development</i>			
00-01 ZX-12R	4-102	✓	-	-	-
02-03 ZX-12R	4-102	✓	-	-	-
04 ZX-12R		<i>In Development</i>			
04 Vulcan 2000		<i>In Development</i>			

Model	Quick Shifter Sensor	Universal Shift Rods			
		Rod A	Rod B	Rod C	Rod D
<b>Moto Guzzi</b>					
00-01 V11 Sport		<i>In Development</i>			
00-01 California Special		<i>In Development</i>			
00-03 Jackal/Bassa/Stone		<i>In Development</i>			
00-01 Quota 1100 ES		<i>In Development</i>			
<b>Suzuki</b>					
01-03 GSXR 600	4-102	-	✓	-	-
04 GSXR 600	4-102	-	✓	-	-
03-04 SV 650 & SV 650 S	4-102	-	✓	-	-
04 DL 650 (V-Strom)		<i>In Development</i>			
02-03 GSXR 750	4-102	-	-	-	-
04 GSXR 750	4-102	-	✓	-	-
01-02 GSXR 1000	4-102	-	✓	-	-
03-04 GSXR 1000	4-102	-	✓	-	-
03-04 SV 1000	4-102	-	✓	-	-
02-04 Hayabusa	4-104	-	-	-	-
04 Marauder 1600		<i>In Development</i>			
<b>Triumph</b>					
03-04 Daytona 600		<i>In Development</i>			
<b>Yamaha</b>					
03 YZF 600 R6	4-101	✓	-	-	✓
04 YZF 600 R6	4-101	✓	-	-	✓
04 FZR Fazer		<i>In Development</i>			
02-03 YZF R1	4-101	✓	-	✓	-
04 YZF R1		<i>In Development</i>			
03-04 FJR 1300		<i>In Development</i>			
02-04 Road Star Warrior		<i>In Development</i>			