Autoblipper -

=Triumph Street Triple 765= Manual



Autoblipper control unit "Shifter-France Autoblipper" (hereinafter referred to as AB) is used for clutchless shifting by downward. Upwards shifting is controlled by stock ECU

For setting of AB unit use *software Autoblipper* and cable with USB-micro connector. For download go to www.Shifter-France.com

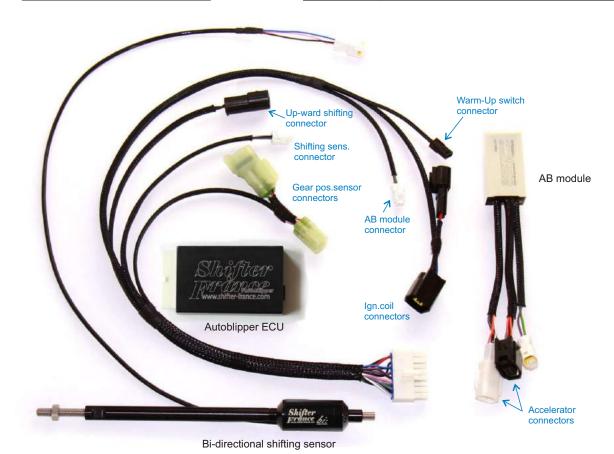
QS unit can be used on closed road only. Incorrect use or connection may result damage of motorcycle parts or cause an injury.

Kit contains:

- -AB unit
- Bi-directional shifting sensor
- -AB module
- wiring harness Plug&Play
- fasteners, ties
- manual



1	Input 2				
2	Input 1				
3	Input from gear pos. sensor				
4	Output 2 (max 500mA)				
5	Output 1 (max 500mA)				
6	RPM input				
7	+ 12V out (max 1A)				
8	Supply +12V				
9	Input 3				
10, 14, 15	Sense ground				
11	Accelerometer input				
12, 13	Output 3A + 3B (max 200mA)				
16	Supply GND				



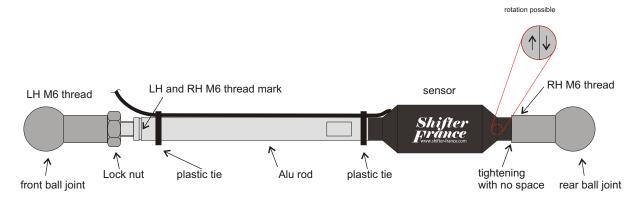
Sensor installation



Remove original shifting rod and replace with new shifting rod with Bi-directional sensor. Using Original Ball joints. Right side of sensor fully tighten the ball-joint (use lock agent). Rotation of sensor against tightened ball-joint is possible. Attach the left hand ball joint to the shifting arm (the angle between shifting arm and shifting rod should be 90° +/-10,) adjust to the ball joint and lock in place with nut.

Use cable ties to secure the shifter cable, Cable have to be free by shifting

Check settings in software before first run. Go to bookmark "Monitor", section pedal move to lower gear (from N to 1st), "Blipper" is light on. When the shifting pedal move to higher gear (from N to 2nd), "Shifter" is light on. More in section "Software, page 4.



AB unit connection

- 1) Remove fuel tank and airbox. Wiring harness can be found along the right side of frame (see photo).
- 2) Unplug ignition coil connector and insert connectors on AB wiring harness (female to ignition coil and male to motorcycle wiring harness)





3) Disconect accelerator connector and insert AB module. Connect AB module to AB wiring harness by 2way white connector.



4) Under fuel pump are 2 connectors: for "Gear position sensor" and for "OEM shifting sensor". Disconnect GPS connector (black 4way Sumitomo with wirees in male conector:P, P/B, B/P and B/W) and insert AB wiring harness - 4way natural Sumitomo.

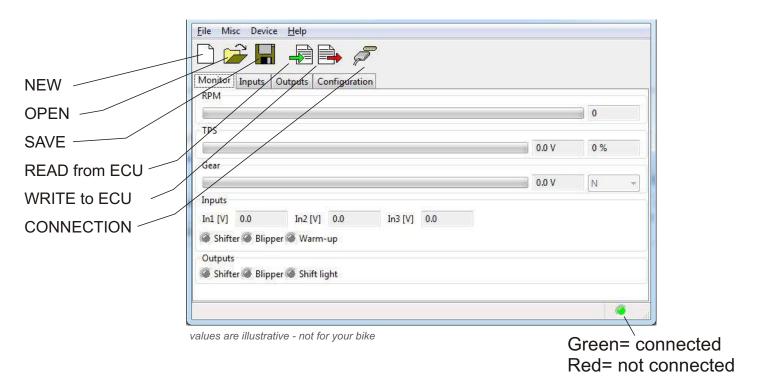
Connect black 2way Econoseal connector from AB wiring harness instead of OEM shifting sensor.

Connect 3way white connector from Bi-directional shifting sensor to AB wiring harness.





Download software Autoblipper and driver from web page QS.vyrobce.cz/ab_en.html



Monitor

RPM - display current RPM

TPS - display current accelerator position (%) and voltage (V).

Gear - display current gear and voltages (V) from gear position sensor.

If is not right, go to bookmark "Inputs"

Inputs - voltage on each inputs

Outputs -

grey = output is not activated green= output is activated

Shifter Twww.shifter-france.com

Inputs

In 1, 2, 3 - input setting

None = input is off

Blipper = AB module is activated by switch

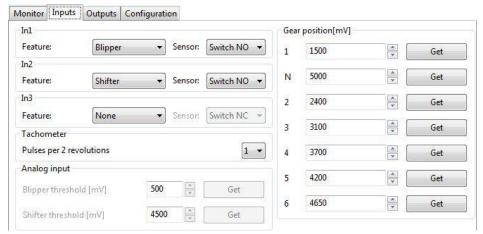
Shifter = QS in stocj ECU is activated by switch

Shifter/Blipper = input for sensor with analog output

WarmUp = engine will be faster warm-up by activation. Gearbox in neutral position is neccesary.

NO = sensor is closed by force (Normal Open)

NC = sensor is open by force (Normal Close)



values are illustrative - not for your bike

Tachometer - amount of pulses on RPM input (pin 6) for 2 rev of crankshaft.

Analog input - setting for sensor with analog output

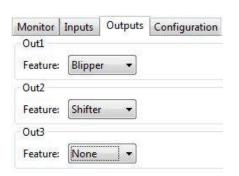
Blipper threshold = voltage for Blipper activation Shifter threshold = voltage for Shifter activation

Gear position - voltages for each gear. Switch igniton On, don't run the engine. Shift 1st gear and push button "GET" for 1st gear. Do it again for other gears.

Outputs

Out 1, 2, 3 - output setting

None = output is off
Blipper = output for AB module activation
Shifter = output for QS activation
Shift Light = outpud is grounded when is reach setting
RPM. You can you it for shifting light.



AB unit setting



Configuration

Shift Light RPM = rev value for activate Shift Light

Delay = minimum time between two upward shiftings

Throttle position min. = minimum voltage from accelerator sensor Switch ignition ON, don't touch on throttle and press "Get"

Throttle position max. = maximum voltage from accelerator sensor Switch ignition ON, full throttle and press "Get"

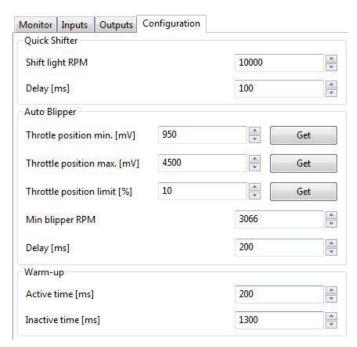
Throttle position limit = maximum accelerator position for blipper activation (works below this value)

Min blipper RPM = minimum engine rev for blipper activation (works above this value)

Delay = minimum time between two downward shiftings

Active time = time of rev rising by WarmUp function

Inactive time = time of rev falling by WarmUp functionp



values are illustrative - not for your bike

AB unit setting



<u>Maps</u>

Blipper map - time of rev rising by blipper activation depend on RPM (rows) and Gear (columns). When is no signal on GEAR input detected, values in column "2" will be used.

too short time= hard shifting or shift to bad neutral between gears

too long time = motorcycle jerk forward by shifting

Monitor	Inputs	Outputs	Confi	guration Ma	ps		
Autobl	ipper ope	ning time	[ms]				
RI	PM	2		3	4	5	6
	2000	- 1	80	80	80	80	80
	3000		80	80	80	80	80
	4000		80	80	80	80	80
	5000		80	80	80	80	80
	6000		80	80	80	80	80
	7000		80	80	80	80	80
	8000		80	80	80	80	80
	9000		80	80	80	80	80
	10000		80	80	80	80	80
	11000		80	80	80	80	80
	12000		80	80	80	80	80
	13000		80	80	80	80	80
	14000		80	80	80	80	80
	15000		80	80	80	80	80
	16000		80	80	80	80	80

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