

Reading time 8min.

Installation manual SYNCROtech Quickshifter

Part № "D-DC" "D-DC2"

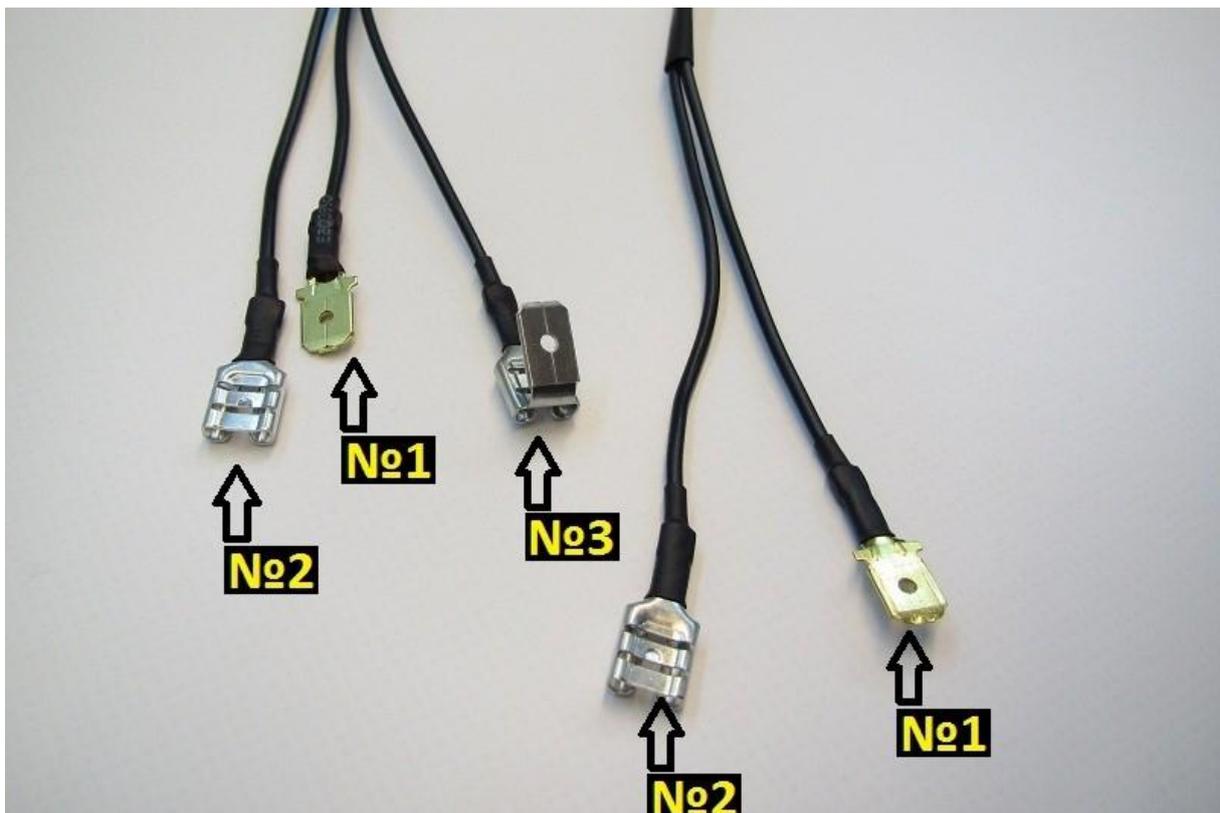
To install the SP SYNCROtech Quickshifter you will have to:

1. Gain access to the ignition coils-(for best results refer to your motorcycle service manual).

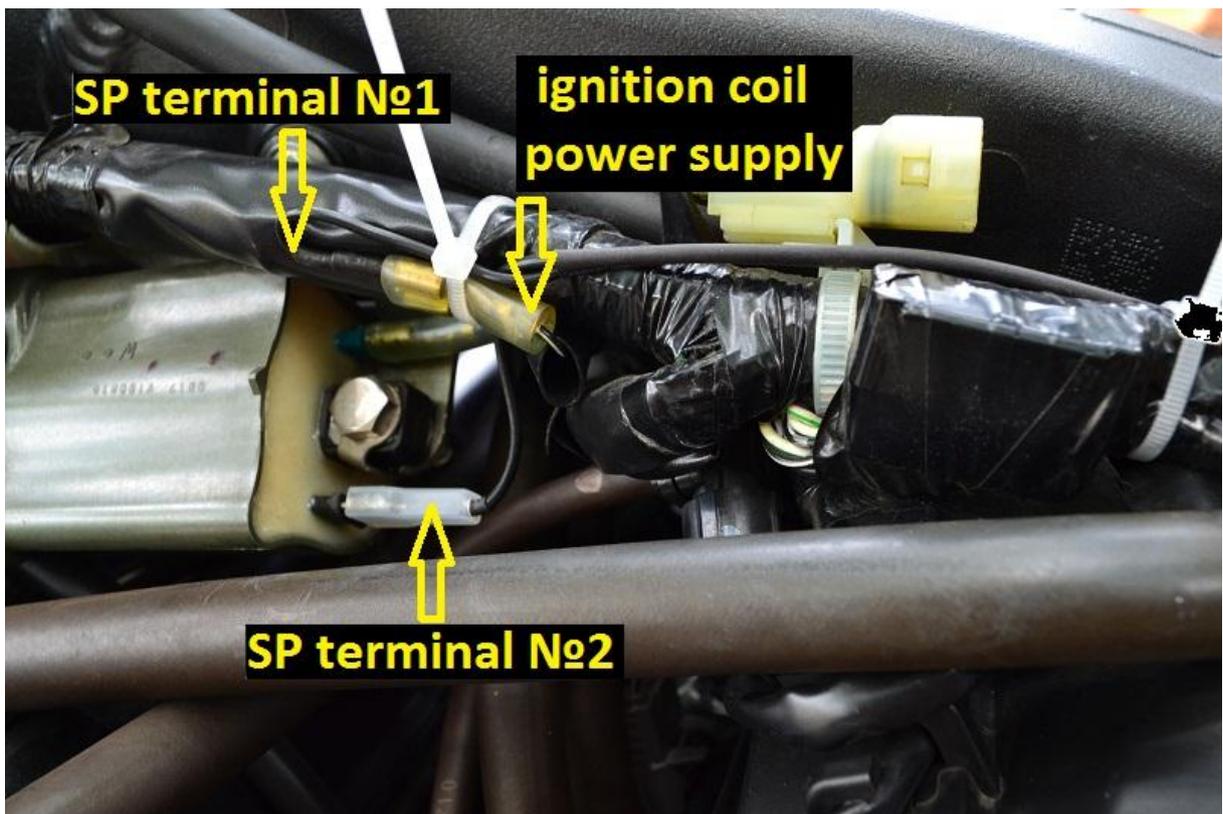
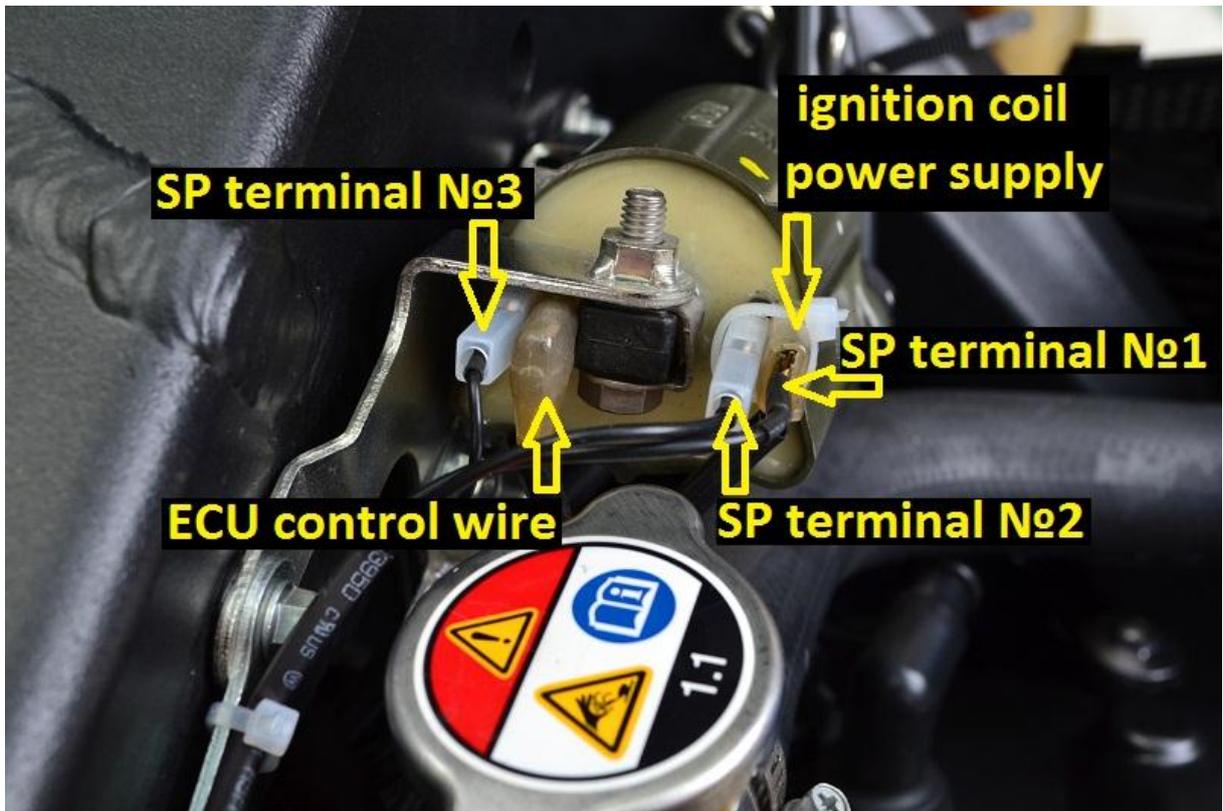
Find appropriate place for the SYNCROtech control box and route the cables, they are high quality automotive class heat resistant cables but there is some care you should take-(avoid moving parts as they might damage them), the best way is to follow other cables from the bike's harness, use the cable ties provided to fasten them. Make sure the place for the control box **is away from heavy vibrations**, heat and it is not constantly exposed to rain and water.

Unplug the "POWER SUPPLY" (+) wires from both coils - it is the wire with the same color on both coils! If you're not sure which one is it, refer to your motorcycle service manual – **(do NOT improvise or you will damage the SYNCROtech control box permanently)**. Plug the SYNCROtech control box female №2 terminal to the coils and the male №1 terminal to the "POWER SUPPLY" wires. Disconnect the ECU control wire from the coil (either one will work) and plug the SYNCROtech №3 terminal to the coil then connect the ECU control wire to the №3 terminal. Make sure all connections are well insulated and tight - if a connection is loose and not insulated and if due to vibrations it touches the engine, it will damage a fuse and/or the control box. It is an easy installation but care must be taken! Refer to the following picture for the SYNCROtech terminal numbers regarding the dual external coils fitment:

SP control box part number D-DC, D-DC2



The following pictures are for illustrative purposes and your ignition coils may look different!

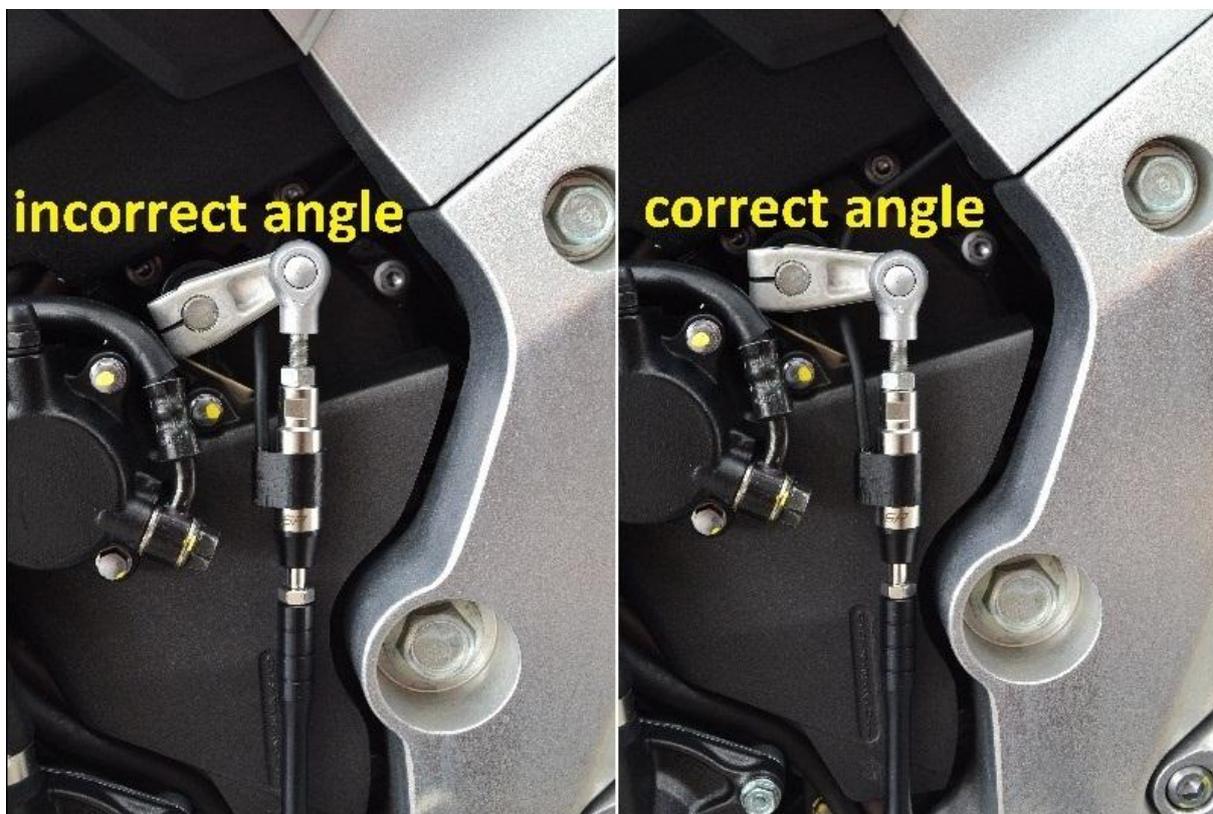


2 The SYNCROtech control box requires negative (ground) connection to power up, connect the single black wire to the battery NEGATIVE (-) lead!

Remove your original shift rod and install the shift sensor with the fitting rod(s) provided to its place. Route the wire to the SYNCROtech control box and plug it in. When installing the sensor, make sure all counter nuts are locked and the sensor wire is not under tension when pressing the gear lever all

the way up and down. The rod and sensor provided are made with DUAL THREADS so fitting is universal.

NOTE: The gearbox pivot arm must extend to 90° degrees with the rose joint in order to receive an equal force in both directions, if not set correctly, the gearbox may not react accordingly and miss gears when using the quickshifter!



After this is done, turn the ignition key ON, make sure the engine kill switch is in RUN position and the gearbox is in neutral, at this time the control box display must power up, (if not recheck connections and particularly the single black wire for the ground connection).

The SYNCROtech Quickshifter is compatible to the make and model of motorcycle it is intended, do not install it on another make and model of motorcycles before checking for compatibility as you might damage the ECU or the SYNCROtech Quickshifter permanently.

Adjusting the Quickshifter shift time (St)

Adjusting the quickshifter engine interrupt time(Shift time): Press and hold the **-mSEC** button, turn the ignition key on to power the control box in about 5 seconds it will display "St", release the button and then you can adjust the time in 2ms (milliseconds) increments by pressing the **-mSEC / +mSEC** buttons. Press and hold the **-mSEC** while in St adjusting mode to change the increment of adjusting in 1ms. The St adjustable range is from 50ms to 140ms, the display is 2 digit and when it displays the range from 00ms to 40ms it will add 100ms to that value! You can exit the Shift time setting mode by starting the engine or turning the ignition key off.

Tips on adjusting your Quickshifter!

The SYNCROtech Quickshifter arrives with best overall setting to your motorcycle make and model. We strongly recommend you to test ride it before changing the St settings. Use the following as a general guide when adjusting your Quickshifter:

If when using the Quickshifter the gearbox seems to push back the shift lever, the shift feels rough and you have experienced missed gears - this means that the gearbox needs more time to react-turn the adjuster clockwise for more time.

If when using the Quickshifter the motorcycle front dives for too long and the shift seems slow - this means that you have to lower the shift time - turn the adjuster anticlockwise for less time. Best results for most motorcycles are achieved with the following time settings - (60ms-70ms).

NOTE: : Before changing the factory setting make sure to remember the length of the Shift Time, so that you will be able to set it back and have a good starting point. If you want to switch OFF the SYNCROtech Quickshifter functions for any reason, unplug the Shift Sensor from the SYNCROtech Quickshifter control box.

The Quickshifter has a threshold RPM which means that the engine speed must exceed the minimum threshold in order to activate the Quickshifter function. The factory setting are over 3000RPM and this is adjustable.

Adjusting the Quickshifter active range (AR)

With everything connected press and hold the **SETAR** button, turn the ignition key on to power the control box in about 5 seconds it will display "AR", release the button and then you can adjust the active range to r3 = 3000RPM, r6 = 6000RPM, r8 = 8000RPM by pressing the **SETAR** button, the program will cycle through the above values. You can exit the AR adjusting mode by turning the ignition key off or starting the engine.

If for some reason you're experiencing difficulties adjusting your Shift Power product, you think it is not functioning as expected or you would like to share your opinion please feel free to contact us to support you with a professional help.

Web: www.ShiftPower.co.uk

Email: info@ShiftPower.co.uk

This product is covered by one year warranty against malfunctions from the original date of purchase under the following conditions:

- 1.** If any of the components are physically damaged by an external force and/or improper installation, the warranty will be voided, so please make sure it is installed by a professional as most, if not all malfunctions will result from an improper installation.
- 2.** If any malfunction occurs, the faulty component will be exchanged with a new one if repair is not possible: the buyer must send it back to the manufacturer for complete testing and he/she is responsible for covering shipping costs both ways.
- 3.** Warranty will be given to the buyer himself/herself and it begins from the original date of the purchase.

Warranty disclaimer:

Shift Power Ltd shall not under any circumstances, be liable for any special, incidental or consequential damaged including, person, party or property, but not limited to, damage loss of cost of purchased or replacement goods or service, claims of customers of the purchaser, which may arise and/or result from sale or use of these parts. Installation of these parts could adversely affect the engine manufacturer warranty coverage.

Thank you for using the SP SYNCROtech Quickshifter!