

**Honda CBR 600 RR i.e. '09/'10**

**FAST part-no.: 9404**



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## INTRODUCTION

Dear Customer,

We compliment you on your choice of product and we intend to provide some information from which you will understand that you have purchased a truly exclusive product.

During its 50 years of operation the Sito Group has been involved in ongoing evolution which has contributed to its leadership in the field of after-market motorbike exhaust systems.

The most recent of which is LeoVince Electronic systems, which is an ultra-new independent department which answers to the LeoVince Research and Development department, which has been conceived for the development of motorbike engine electronic control units, to be initially fitted to its LeoVince exhaust systems (off-road).

LeoVince engineers have been involved in on-going research and development to create a true "system", that is the combination of a special exhaust system dedicated to a certain type of bike and the electronic control unit itself which is configured both for the exhaust and for the motorbike itself.

The starting point has been the selection of a 4-stroke single cylinder — engine, in a version destined to both Motocross, Enduro and Supermotard bikes, which can however be fitted with the exhaust systems of the LeoVince X3 range.

In this case, the control unit replaces the existing one and is not combined with the existing one, as it will be possible to do on scooters and on injection road bikes.

The LeoVince Electronic engineers have designed and developed the FAST control unit totally in-house in close collaboration with the technicians that produce special exhaust systems, thereby obtaining a totally top class control unit/exhaust integrated system.

The control unit has been developed to operate under difficult conditions due to mechanical, thermal and environmental (water) strain. TUV Italy has undertaken all the necessary product trials thereby assuring a totally reliable product.

After passing the bench tests, the definitive prototypes were given to professional users and riders in order for a series of "field" tests to be undertaken. Following the tuning operation the product has been launched for marketing.

This product represents the first stage in a diversified project which, through an already initiated development program, also seeks to include scooters, single and multi-cylinder fuel-injected road bikes.

*Welcome to the FAST era!*

### FOR FURTHER INFORMATION:

*fast@leovince.com*

## 1. TECHNICAL DATA



**LeoVince FAST II Kit** 9404

**LeoVince exhaust item** 7732 - 7733 - 7734 - 7735 - 7736 - 7759 - 7760 - 7787

### **FAST Control Unit dimensions    Size and weight**

Length	70.00 mm
Width	105.00 mm
Height	31.00 mm
Weight (without wiring)	330 g

## 2. WARNINGS

This manual has been written by SITO GRUPPO INDUSTRIALE S.p.A and is destined for use by qualified staff. Obviously it is impossible to provide complete mechanical instructions in a single manual. So that it is to be understood that whoever uses this manual to undertake installation and processing operations with the FAST control units, must be in possession of sufficient basic technical knowledge to work on motorized vehicles. Failure to respect the information and advice given in this manual, when carrying out the installation, may render the vehicle unsuitable for use and/or dangerous.

SITO GRUPPO INDUSTRIALE S.p.A. is constantly committed to ongoing improvement of all its products. All major modifications or alterations will be notified to all authorized SITO dealers, and where applicable, will be included in subsequent editions of the manual.

**NOTE:** the drawings and specifications may be subject to alteration without any prior warning.

SITO GRUPPO INDUSTRIALE S.p.A. will not accept liability for any damage arising from tampering or improper use of the FAST control unit.

The FAST control unit has been designed and developed for motorbike competitions, so that the use on public roads or motorways is forbidden.

The FAST control unit is to be installed with engine off, and where present the battery should also be disconnected.

Particular care should be taken in the fixture of the control unit, to assure a suitable support. Pay particular attention to the wiring position so as to avoid contact with any excessively hot parts, and avoid excessively narrow curvature angles, avoid critical passages which may be cause abrasion or rubbing of the wires.

**CAREFULLY READ THIS MANUAL BEFORE PROCEEDING WITH INSTALLATION**

## 3. GENERAL WARRANTY TERMS

### 3.1 WARRANTY

SITO GRUPPO INDUSTRIALE S.p.A guarantees its products according to the terms of current laws. In particular it guarantees against conformity defects, either by undertaking repairs or replacement within an adequate time limit.

On the request of the customer for the repair or replacement of the part, SITO GRUPPO INDUSTRIALE S.p.A reserves the right to assess whether the requested remedy is actually feasible and cost effective as compared to other solutions.

Repair or replacement will be undertaken at no additional expense for the customer, the right remaining for SITO GRUPPO INDUSTRIALE S.p.A. to inspect the defective item.

In order to be covered by the warranty the customer must have a regular tax receipt and it must also undertake to notify the defects within 2 months of having noted them.

The warranty will last for a period of two years from the date of product consignment.

Those parts or products replaced under warranty will become the property of SITO GRUPPO INDUSTRIALE S.p.A.

### 3.2 EXCLUSION

The warranty applied by SITO GRUPPO INDUSTRIALE S.p.A. is not applicable on:

- a) parts used for competitions of any type;
- b) for parts used on rental vehicles;
- c) on parts subject to wear as the result of normal use (such as the rubber support, or the aluminium casing to give just two examples);
- d) in the event of the improper use or the misuse of a motorbike part by the owner and/or operator;
- e) in the event of non-authorized modifications or modifications undertaken by personnel not representing SITO GRUPPO INDUSTRIALE S.p.A.;
- f) in the event of parts used in an incorrect manner or on which abnormal maintenance has been undertaken.

### 3.3 LIMITATIONS

The general guarantee conditions cease to have effect in the following cases:

- a) should the part be found to be defective as the result of accidents, maltreatment or overloading;
- b) use of the bikes mounted with these parts, in a non-conforming manner;
- c) in the event that the bike on which these parts are mounted, has been subject to maintenance operations not indicated in the user and maintenance manual;
- d) excluded parts as specified in paragraph 3.1 of the present warranty;
- e) parts excluded as the result of the negligence of the owner in relation to the obligations as specified in paragraph 3.1 of the present warranty.

### 3.4 RESPONSIBILITY FOR DAMAGE FROM DEFECTIVE PRODUCTS

SITO GRUPPO INDUSTRIALE S.p.A is liable in the event of damage caused by defects of its product, in accordance with the terms of the legislative decree of the Italian Republic 6.9.2005 art. 206 from 114 to 127, excluding all other liability.

SITO GRUPPO INDUSTRIALE S.p.A, declines all responsibility in the event that a lack of maintenance either causes damage or jeopardizes the normal function of the product sold.

## 4. IMPORTANT MANUAL INFORMATION

The information of particular importance in this manual is marked with the following symbols:



A danger symbol which means **PAY ATTENTION TO YOUR SAFETY!**



Failure to comply with the instructions denoted by this symbol may cause serious injury, and even the death of the rider, or persons present in the vicinity, or those involved in the inspection or repair of the bike.



Indicates the special precautions to be respected in order to avoid damage to the bike.



A remark provides key information to facilitate or render the procedures clearer.

## 5. PREPARING FOR INSTALLATION

Before undertaking installation of the FAST control unit, it is necessary to follow some simple advice in order to improve and optimize the installation times:

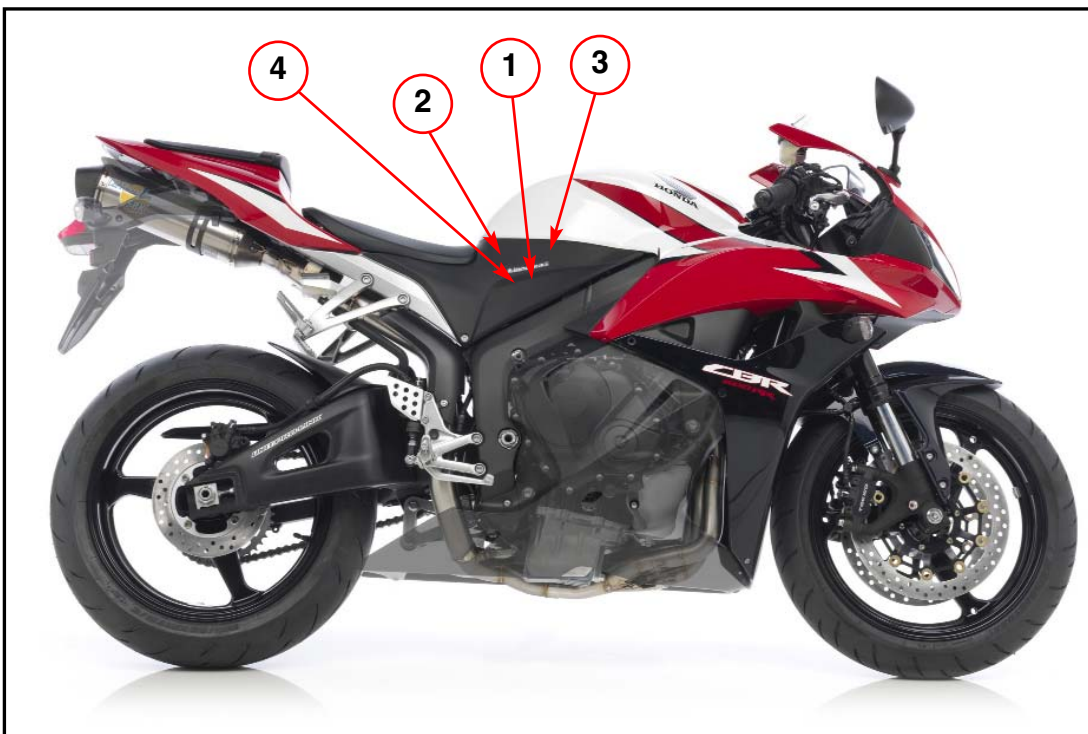
- 1) Begin operations only with the engine cold;
- 2) Remove all traces of dirt, mud, dust and foreign bodies before removal or dismantling of the parts;
- 3) Use only suitable equipment or appliances;
- 4) During the dismantling of the vehicle, clean all the parts and place them on a tray, respecting the dismantling order.  
This will make it possible to reduce the re-assembly times and to correctly install all the parts;
- 5) Disconnect the battery before installation of the FAST kit.

## 6. WIRING ARRANGEMENT

Here follows some instructions for the arrangement of cables and wires:

- 1) A loose wire or cable may constitute a safety risk. After positioning, check all the wires and cables to assure that they are securely fixed.
- 2) Secure the wires and cables with some strips. Secure the strip so that only the isolated surfaces come into contact with wires or cables.
- 3) Arrange the wiring so that they are neither too loose nor too taut.
- 4) Arrange the wiring to avoid any sharp edges or corners, Avoid the projecting heads of bolts or screws.
- 5) Protect the wires and cables with insulating tape or insulation pipes if they come into contact with any sharp edges or angles. Thoroughly clean the surface prior to tape application.
- 6) Do not use wires or cables with faulty insulation. Repair them using insulating tape or replace them.
- 7) Keep the wiring away from exhaust pipes or other very hot parts.
- 8) After fixture of the connectors, check each wiring to assure that it does not interfere with any mobile or sliding part.
- 9) The wiring arranged along the handlebar must not be either too taut or too loose or pinched and must not interfere with adjacent or surrounding parts in all the steering positions.
- 10) Following positioning check that the wires are not bent or wound.
- 11) Check the electrical wires and the connection elements, checking for the presence of any stains, rust, humidity etc. If there are any traces of humidity, dry off, using a fan. In the presence of any rust/stains, connect and disconnect the parts several times.
- 12) Thoroughly clean the connectors before connection to the FAST wiring.

## 7. MAIN COMPONENTS ARRANGEMENT



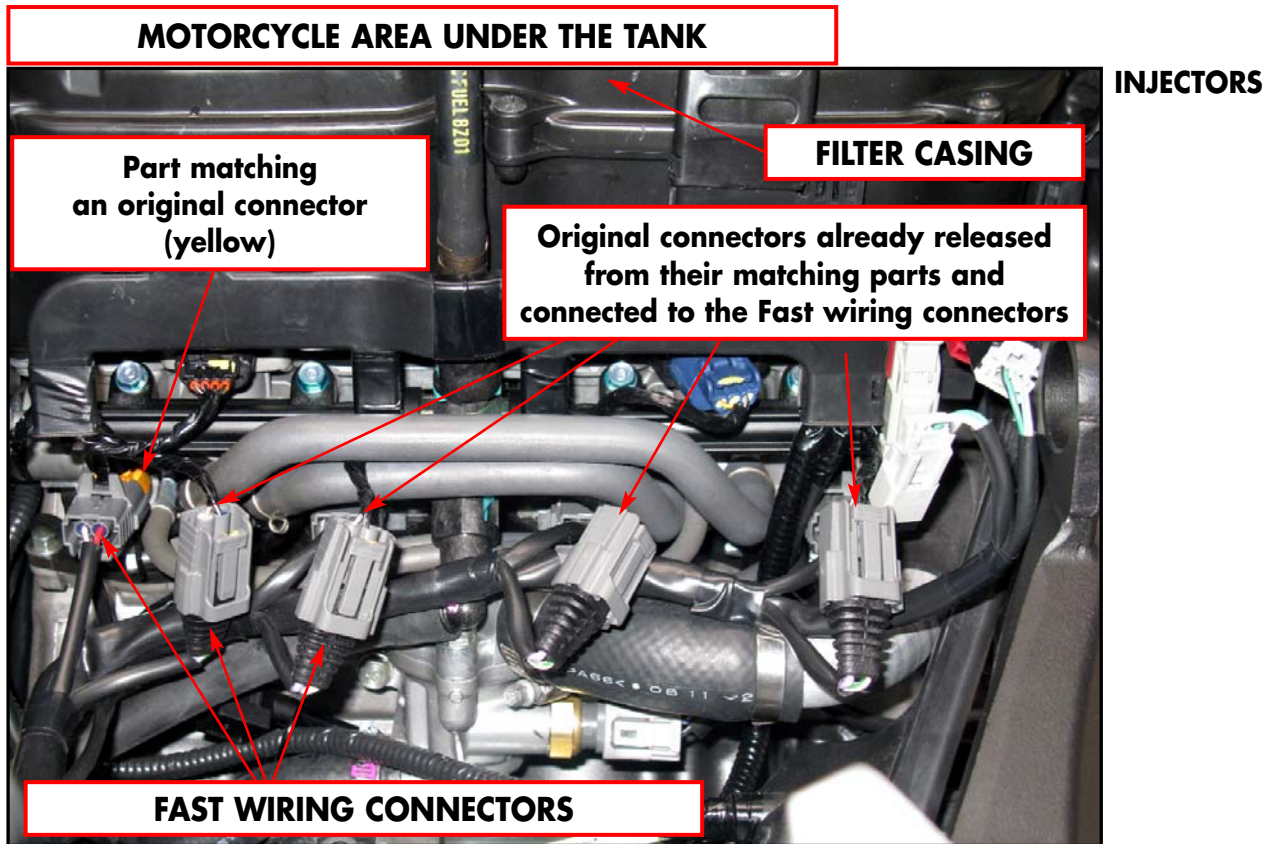
- 1) Injectors
- 2) Ground wire
- 3) TPS
- 4) Rev. indicator

## 8. FAST WIRING INSTALLATION

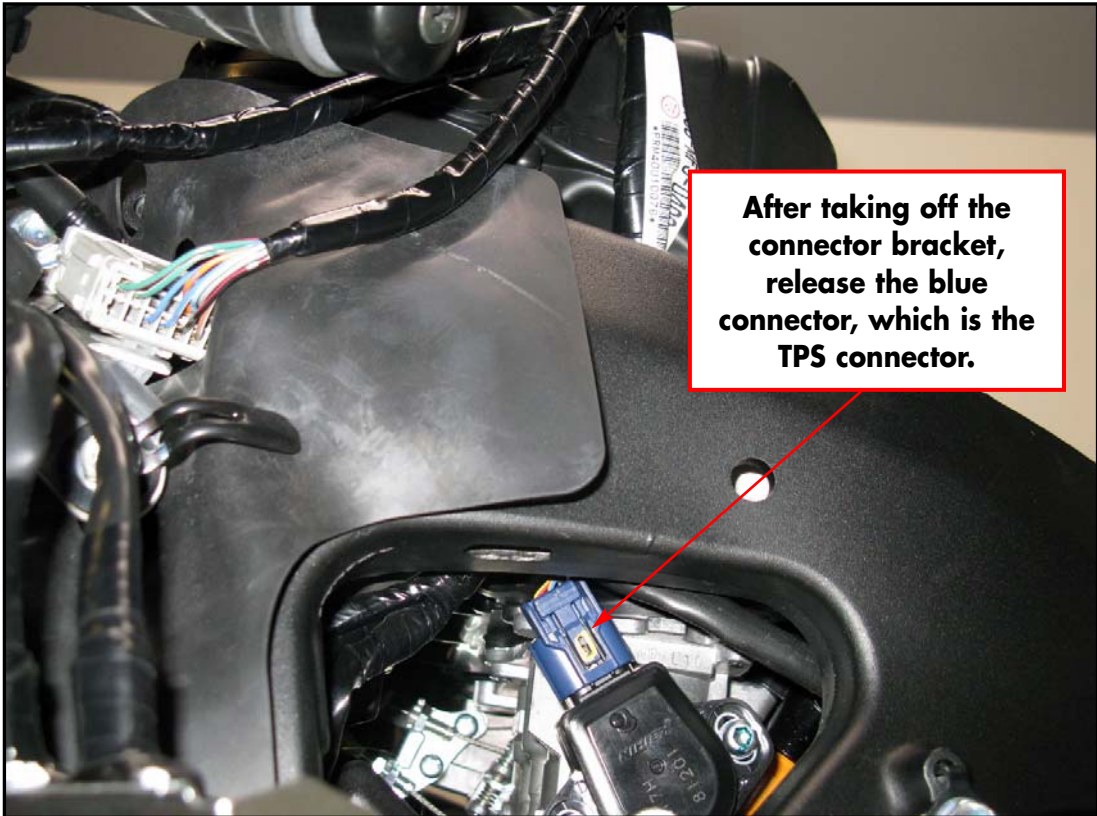
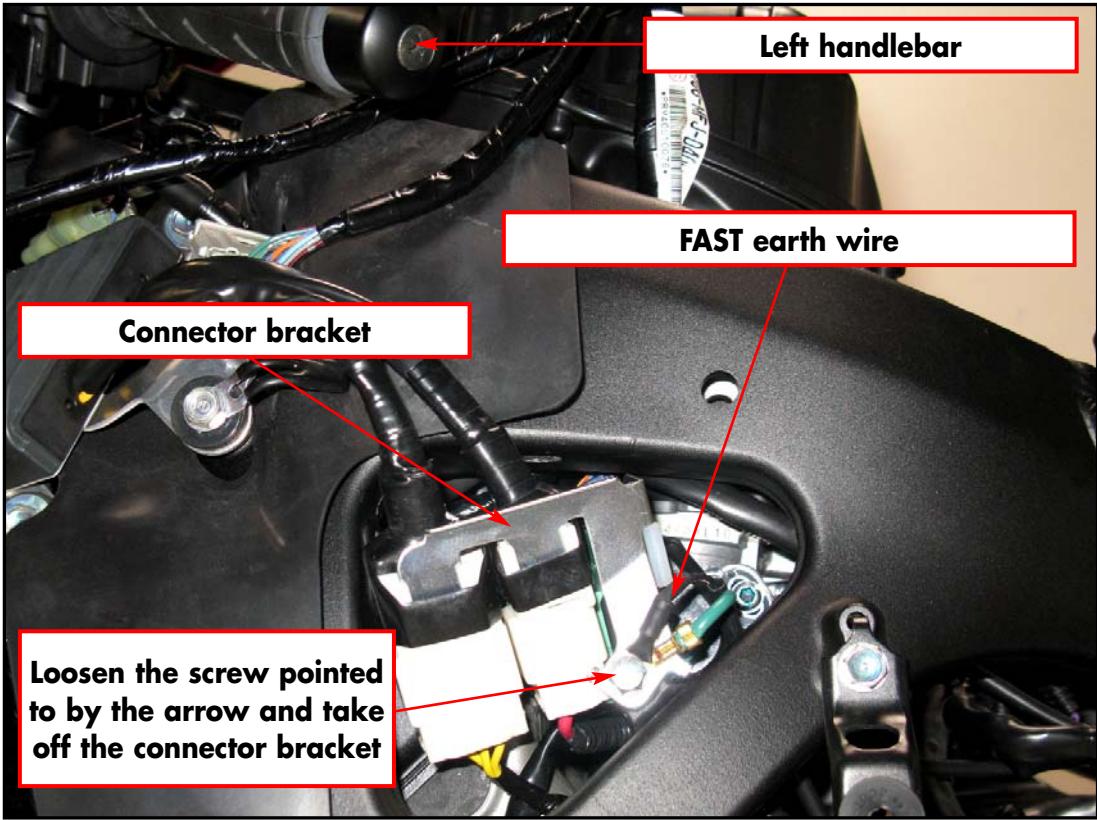


Take off the saddle of driver and remove the tank. To this purpose, please refer to the Use and Maintenance Manual of the vehicle.

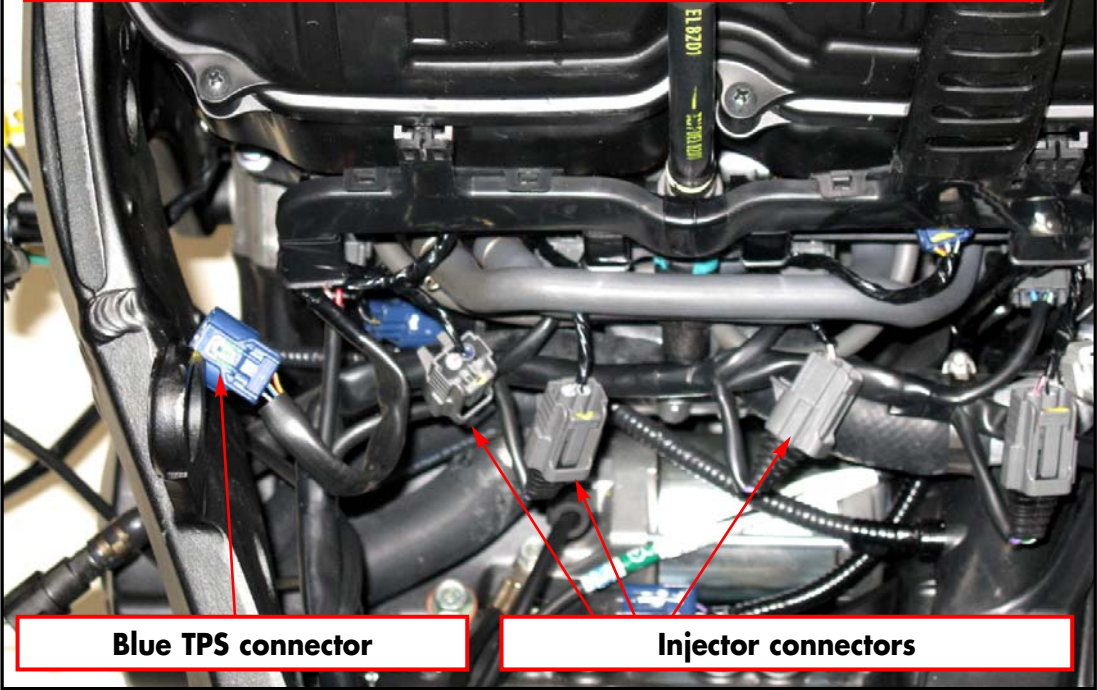
CONNECT THE FAST WIRING CONNECTORS TO THE ORIGINAL CONNECTORS AS WELL AS TO THEIR MATCHING PARTS



TPS



Once the blue connector of TPS has been released, let it slide towards the zone underneath the tank, near the injector connectors.



Blue TPS connector

Injector connectors

Detail of the blue TPS connector

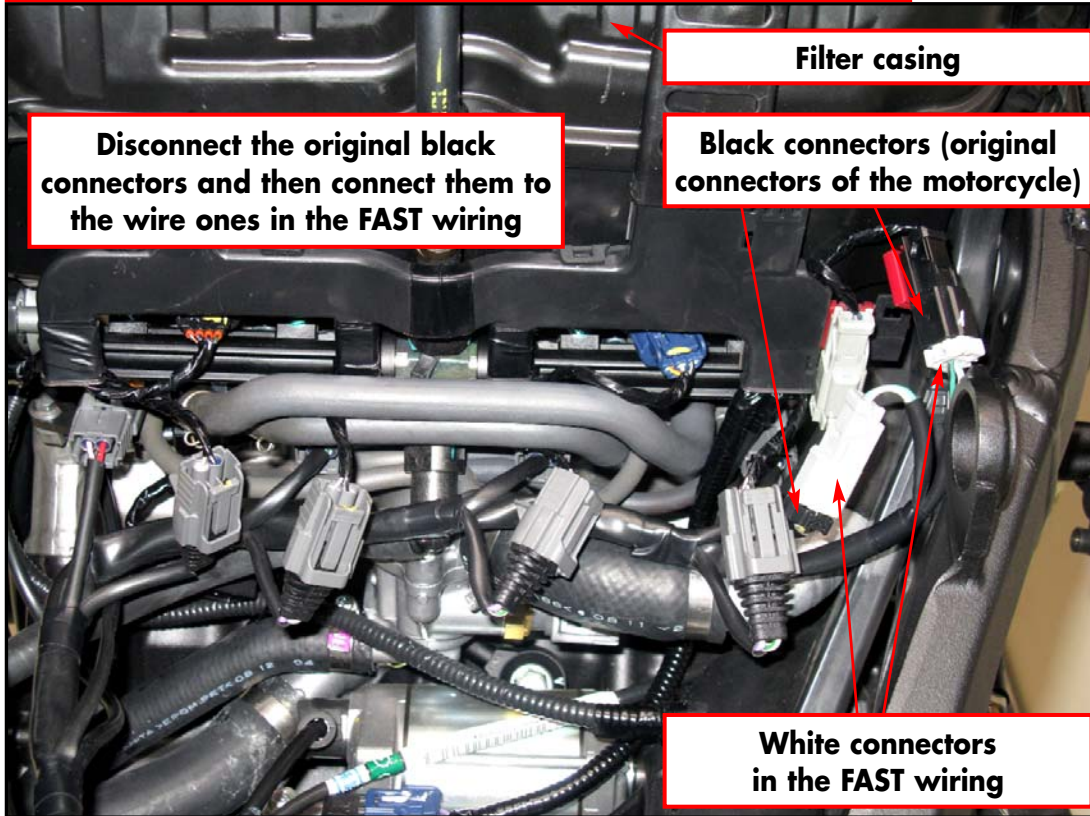
Using the wire splicer, included in the Fast kit, connect the yellow wire in the Fast wiring to the wire pointed to by the arrow (yellow/blue wire in the centre)



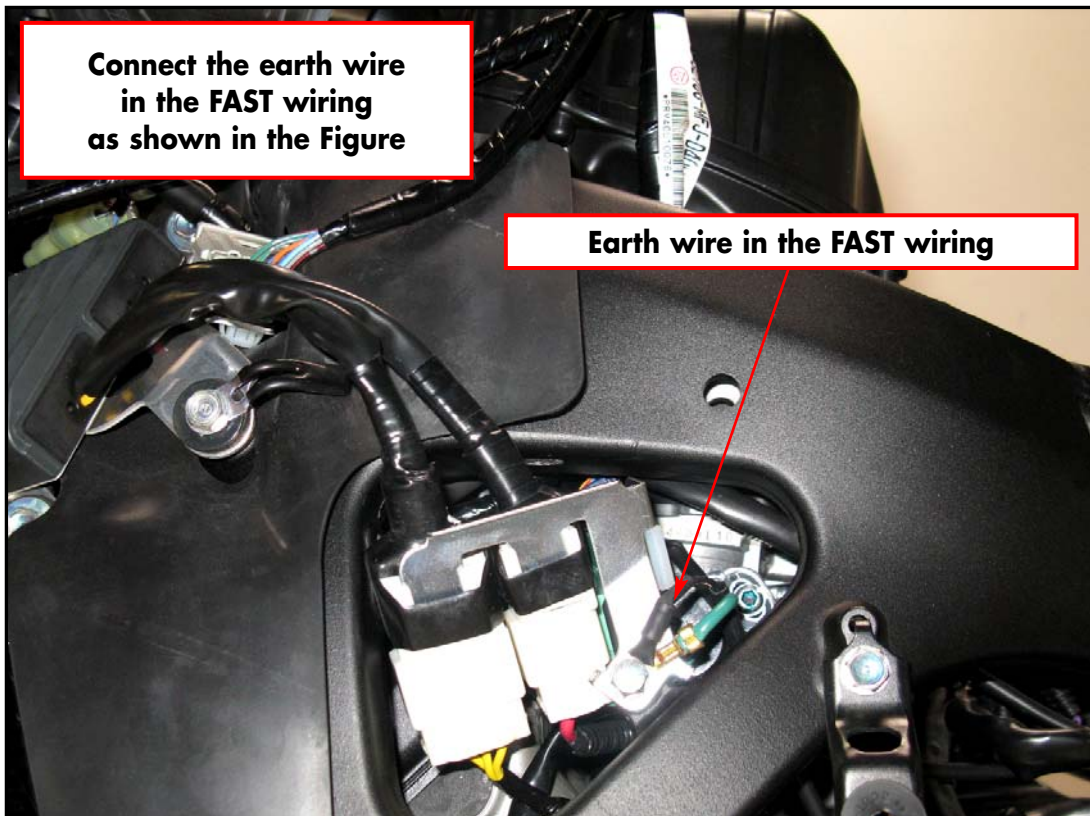
Make sure that the wire splicer cuts into the concerned wire sufficiently. FAST Technicians advice to strip the yellow/blue wire, if possible, over approx. 1 mm.

## REV INDICATOR CONNECTOR

### MOTORCYCLE AREA UNDER THE TANK



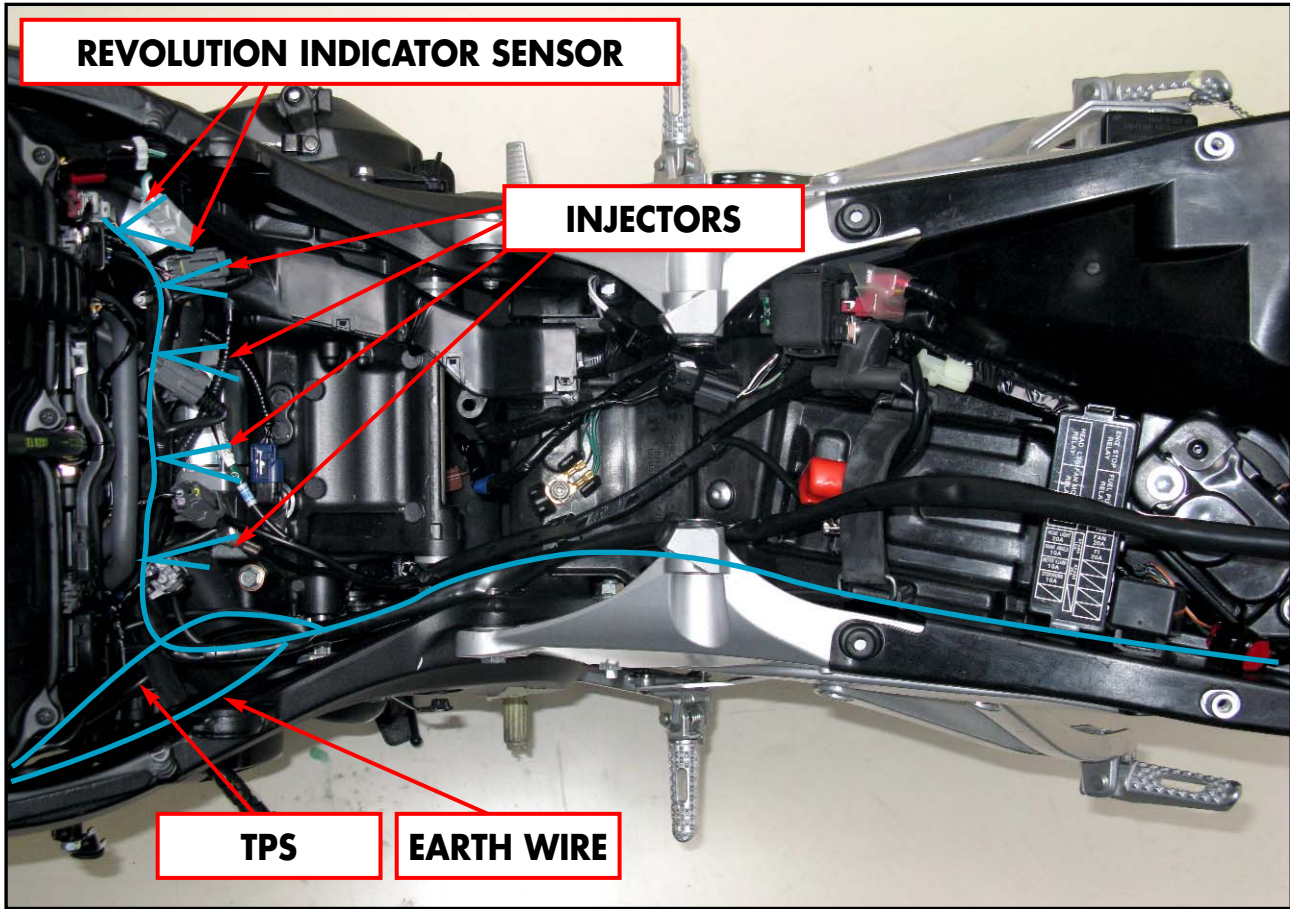
## EARTH WIRE



## 9. POSITIONING OF THE FAST WIRING

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Arrange the wiring as shown by the blue line in the figure below.

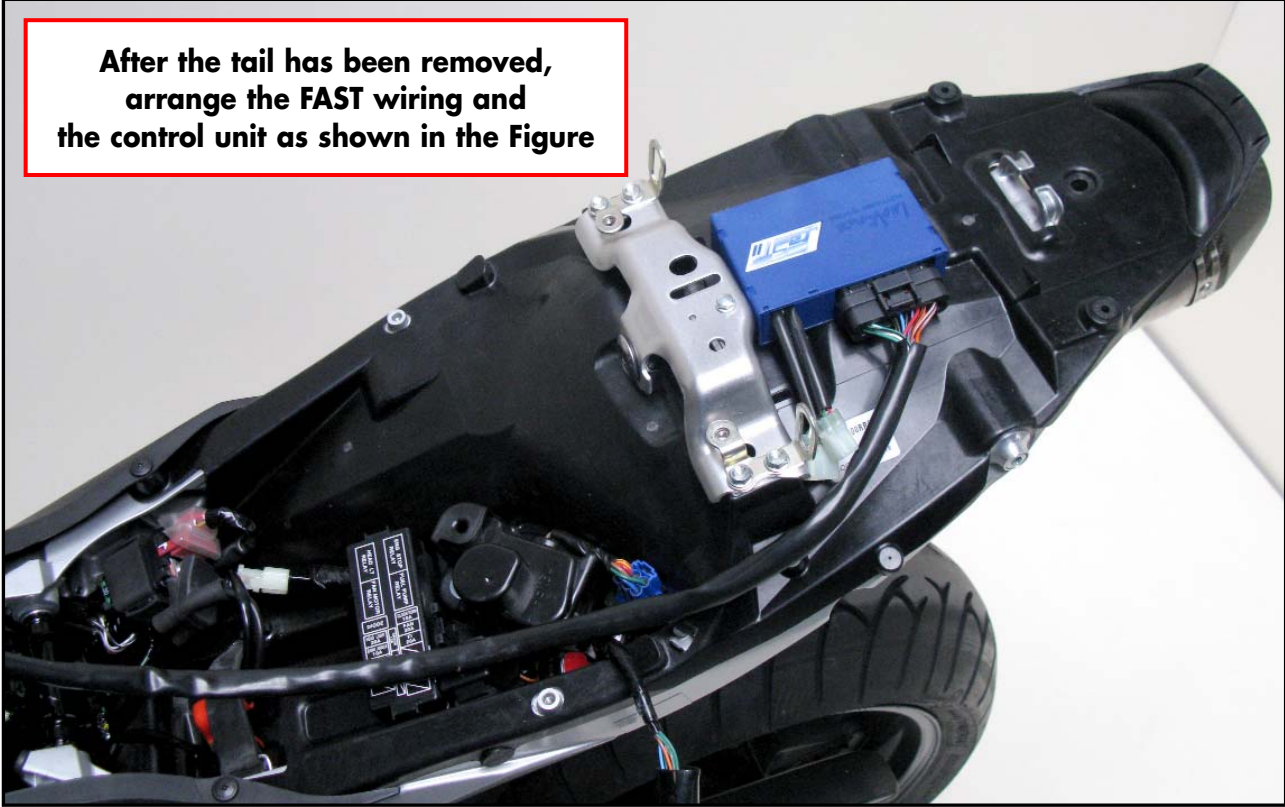


## 10. FAST CONTROL BOX INSTALLATION

Secure the FAST control unit as shown in the figure below. To this purpose, use the Velcro strip included in the FAST kit.

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**After the tail has been removed,  
arrange the FAST wiring and  
the control unit as shown in the Figure**



**LeoVince<sup>®</sup>**  
ELECTRONIC SYSTEMS

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