

Yamaha T-Max 530 i.e. '12

FAST part-no.: 9438



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1. INTRODUCTION

Dear Customer,

We would like to thank you for choosing our product, and provide you with information to help you understand the absolutely exclusive product you just bought.

In over 50 years of business, the Sito Group, has carried out a series of developments that have allowed it to achieve a position of leadership in the field of after-market motorcycle exhaust systems. The most recent development, LeoVince Electronic Systems, is a brand new independent department reporting to the LeoVince Research and Development Department, which was set up to develop electronic engine management control units for use in combination with our 4-stroke motorcycle and scooter exhaust systems.

In the latest development stage of the FAST project, the LeoVince technicians have applied their efforts to four cylinder injection engines, and have developed an electronic control unit for use on the latest generation of street motorcycles.

Both the original FAST and the new Fast II control units manage injection; however, the FAST II control unit includes additions which allow individual ignition control, and is equipped with a series of pluses and accessories that we invite you to discover on our internet site www.leovince.com.

The LeoVince Electronic Systems engineers have designed and built this product completely in-house, closely collaborating with the technicians who develop our special exhaust systems. Their combined efforts have resulted in an integrated control unit/exhaust that is absolutely tailor-made.

The control unit operates in conditions that can become difficult due to mechanical, thermal and environmental stresses. Specialized laboratories have carried out all testing of the product, thus ensuring its reliability.

After passing the bench tests, the definitive prototypes were sent to proven and trusted testers to carry out a series of "field" tests. And so, after some final fine-tuning, the stage has been reached where the product is ready for the market.

This product, the first and only one of its kind, has obtained approval according to the R10 European regulations. By passing the required series of electrical and electromagnetic tests, the absolute reliability of the control unit has been confirmed. The R10-approved control unit guarantees no interference with other electronic items fitted onto the motorcycle or in the surrounding environment.

Welcome to the FAST era!

2. WARNINGS

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This manual has been prepared by SITO GRUPPO INDUSTRIALE S.p.A. for use by qualified personnel. This manual does not provide complete instructions. In order to correctly implement installation and processing operations with FAST II control boxes, you must have all the necessary skill and know-how for operation on motorbikes. This is a basic pre-requisite; without this and respect for all the detailed instructions contained in the manual the use of FAST products on the bike would be rendered inappropriate and/or dangerous.

The information of particular importance in this manual are identified by the following symbols:



DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury. Obey all safety messages that follow this symbol to avoid injury or death.



WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. Obey all safety messages that follow this symbol to avoid possible injury or death.



CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. Obey all safety messages that follow this symbol to avoid possible danger.



NOTICE is used to address practices not related to personal injuries.



SITO GRUPPO INDUSTRIALE S.p.A. is involved in a process of constant product upgrading. All the most significant alterations or modifications will be notified to all Authorized SITO dealers, and where applicable will be included in subsequent editions of this manual.

The drawings and specifications may be subject to alteration without prior warning.

SITO GRUPPO INDUSTRIALE S.p.A. will not accept any responsibility for any damage as the result of tampering or mis-handling of the FAST II control system.

The FAST II control system has been designed and developed for motorbike competitions. **USE ON PUBLIC ROADS OR MOTORWAYS IS NOT PERMITTED.**

FAST is intended for racing or other off-road uses only. FAST is not legal for sale or use in California on pollution-controlled vehicles.

Carry out installation of the FAST Engine Control Unit (ECU) with the engine switched off, and if the battery is installed, disconnect it.

Pay particular attention when attaching the ECU, and be sure to find an adequate support point.

Pay particular attention, when positioning the wiring, to avoid contact with excessively hot parts, avoiding excessively tight bends, and avoiding critical points where there could be rubbing or abrasion of the cables. Pay particular attention to avoid residual stresses in the cables.

Connect the injector connectors being careful not to cross them.

Make sure that the mechanical connection between the connectors was successful.

Make sure that the earth/ground eyelet is connected properly to the negative pole of the battery.

The maps for the ECU supplied with the units and on the website www.leovince.com were made by technicians of SITO GRUPPO INDUSTRIALE S.p.A. in accordance with those conditions that are normal or reasonably foreseeable during use of the motorcycle and the deployment of a LeoVince exhaust system. For use outside of the foregoing, SITO GRUPPO INDUSTRIALE S.p.A. disclaims any liability for damages that may be caused to persons or property.

All our maps are created using a standard motorcycle in perfect condition as a reference; however, there can be production differences between the same motorcycles or updates or changes by the manufacturer which are not known by SITO GRUPPO INDUSTRIALE S.p.A. In order to avoid problems that can affect the safe and proper use of our products, please do all the inspections required, such as, but not limited to: any irregularities in power, running, various defects, etc.

The products of Sito Gruppo Industriale S.p.A. were designed and manufactured in accordance with the normal or reasonably foreseeable use. For use outside of the foregoing Sito Gruppo Industriale S.p.A. disclaims any liability for damages that may be caused to persons or property.

OUR FAST UNIT ACTS DIRECTLY ON THE PARAMETERS THAT CONTROL THE ENGINE, SO ITS USE IS RESERVED FOR QUALIFIED PERSONNEL WITH EXPERIENCE IN THE SPECIFIC FIELD OF MOTORCYCLES.

When modifying the maps, please note that extreme values ??in the air-fuel ratio can cause engine damage. This may not be determinable in advance as it is based on different variables, including different types of motorcycles.

In the preparation of customized maps or modification of the maps provided by SITO GRUPPO INDUSTRIALE S.p.A., please note that extreme values ??of degrees of ignition advance can cause engine damage.

Please be careful and stop riding immediately in case of an abnormal engine operation, such as but not limited to any irregularities in power, running, various defects etc.

Before using the FAST II software, please read the Software User Manual and Assembly Instructions Manual on the DVD in the package.

Failure to follow the instructions in the manuals and these warning messages can cause damage to the engine, and if this happens when the motorcycle is in motion can cause serious physical injury or death.

3. GENERAL WARRANTY CONDITIONS



3.1 WARRANTY

SITO GRUPPO INDUSTRIALE S.p.A. guarantees its products in compliance with current standards.

In particular the warranty covers conformity defects by repair or replacement within a reasonable time.

Subject to a request from the consumer to repair or replace the item, SITO GRUPPO INDUSTRIALE S.p.A. shall assess whether the solution requested be excessively demanding in relation to the other solution.

Repair and replacement shall be without additional costs for the consumer, subject to the possibility for SITO GRUPPO INDUSTRIALE S.p.A. to examine the defective product.

To apply the warranty, the consumer is to have a proper receipt of payment, and notify the conformity defects within one month of being found.

The warranty has a duration of two years as from delivery of the product.

Replaced parts or products under the warranty shall become property of SITO GRUPPO INDUSTRIALE S.p.A.

3.2 EXCLUSIONS

The warranty offered by SITO GRUPPO INDUSTRIALE S.p.A. does not cover:

- a) parts used in sporting events of any type;
- b) parts used on motorcycles used in hiring services;
- c) parts subject to wear under normal operating conditions (for example: rubber supports, aluminium body);
- d) defects caused by oxidation or due to atmospheric agents;
- e) improper or misuse of the part or the motorcycle by the owner and/or operator;
- f) unauthorised modifications or modifications carried out by persons who do not represent SITO GRUPPO INDUSTRIALE S.p.A.;
- g) parts used in an incorrect manner or for which normal maintenance has not been observed.

3.3 LIMITATIONS

The general terms of the warranty shall be annulled in the following cases:

- a) the parts have defects deriving from accidents, neglect or overloading;
- b) use of the motorcycles where the items are mounted in a non-conforming manner;
- c) maintenance of the motorcycles where these parts are mounted has not been carried out following the methods indicated in the use and maintenance handbook;
- d) parts excluded, as indicated in section 2.0 of this warranty;
- e) parts excluded due to negligence of the owner in following the obligations specified in section 1 of this warranty;
- f) if the parts are not used in conformity with the technical specifications for use of the vehicles where they are mounted, as supplied by the manufacturers of the said vehicles.

3.4 RESPONSIBILITY FOR DAMAGE FROM DEFECTIVE PRODUCTS

SITO GRUPPO INDUSTRIALE S.p.A. shall be responsible for damages caused by defects in their product, in compliance and according to the conditions of the Executive Order of the Italian Republic 6.9.2005 n. 206 clauses from 114 to 127, excluding any other responsibility.

SITO GRUPPO INDUSTRIALE S.p.A. shall decline any responsibility should lack of maintenance cause damage or jeopardise normal functioning of the product sold.

The Purchaser is aware that lack of, or incorrect maintenance of the parts, use in a manner that does not conform with the instructions contained in the technical manuals and/or handbooks supplied and the non-observance of warnings contained herein and in the installation handbooks and/or technical handbook supplied with the product, exposes the person, personal belongings and any third parties to the risk of suffering a damage that shall not be refundable as per article 122 of the Civil Code.

3.5 WARNINGS

SITO GRUPPO INDUSTRIALE S.p.A. products have been designed and manufactured in observance of normal use conditions, or conditions rationally foreseen. For other uses that differ from previous indications, SITO GRUPPO INDUSTRIALE S.p.A. shall not be held liable for any damages that could occur to goods or persons.

It is also pointed out that our products have been constructed using as reference a standard motorcycle in perfect condition, however, there could be some manufacturing differences between the same motorcycle examples, or updates or changes made by the manufacturer of which SITO GRUPPO INDUSTRIALE S.p.A. is not aware. In order to avoid problems that could jeopardise correct and safe use of our products, please make the appropriate verifications, such as, for example: any irregularity in delivery of power, functioning defects, etc.

4. TECHNICAL DATA

LeoVince FAST II Kit 9438

LeoVince exhaust item 8588

FAST Control Unit dimensions Size and weight

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

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5. POSITIONING OF THE MAIN COMPONENTS



1) Injectors | 2) Ground | 3) TPS | 4) Crankshaft Signal

6. CASING REMOVAL

Remove the casing indicated in the illustrations below. For casing removal reference should be made to the “user and maintenance” manual of the bike.



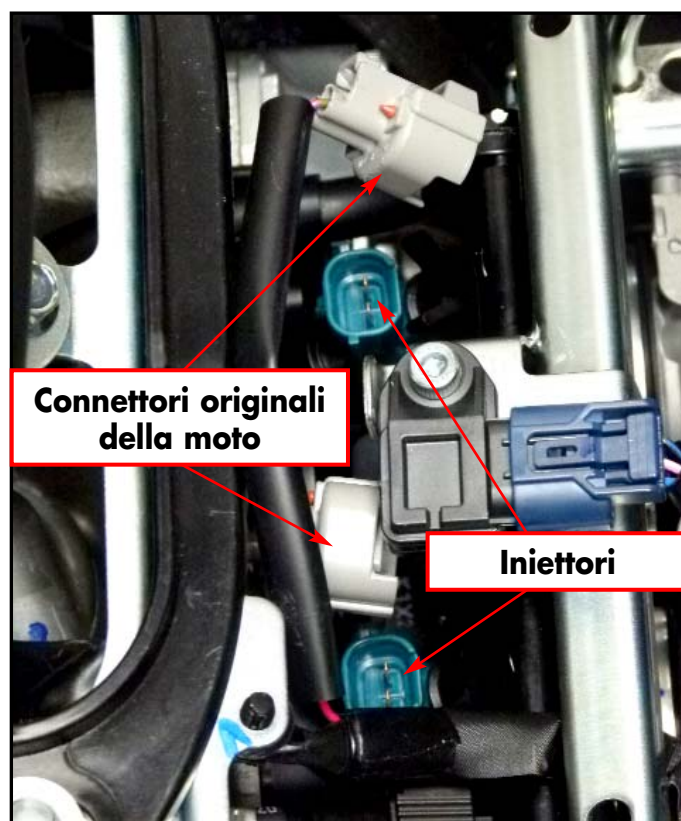
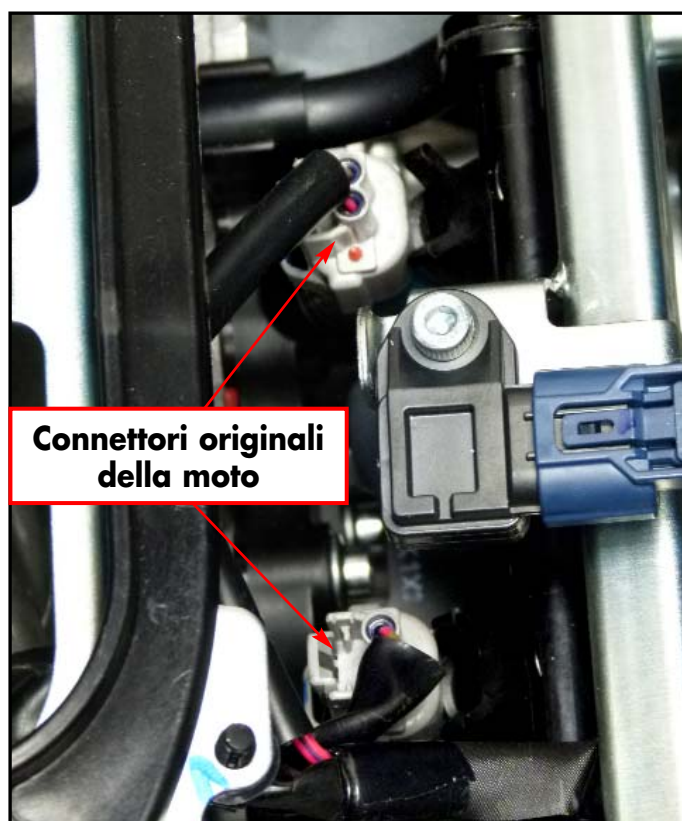
1) Central tunnel
2) Left side painted casing
3) Left side dull casing

7. FAST WIRING INSTALLATION

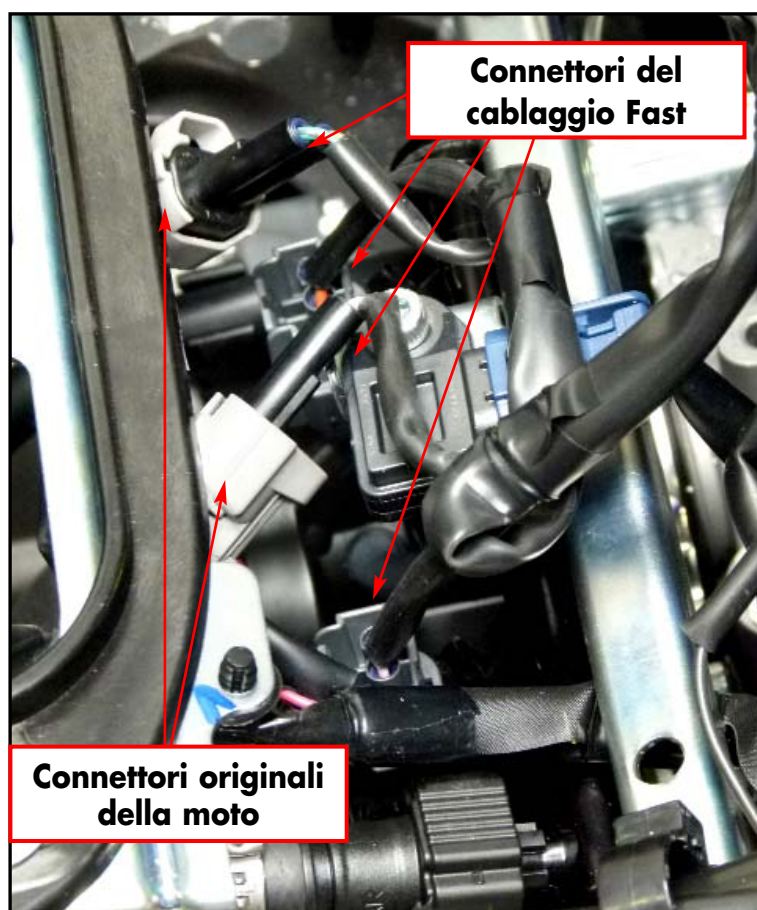
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INJECTORS

Disconnect the original connectors from the injectors.



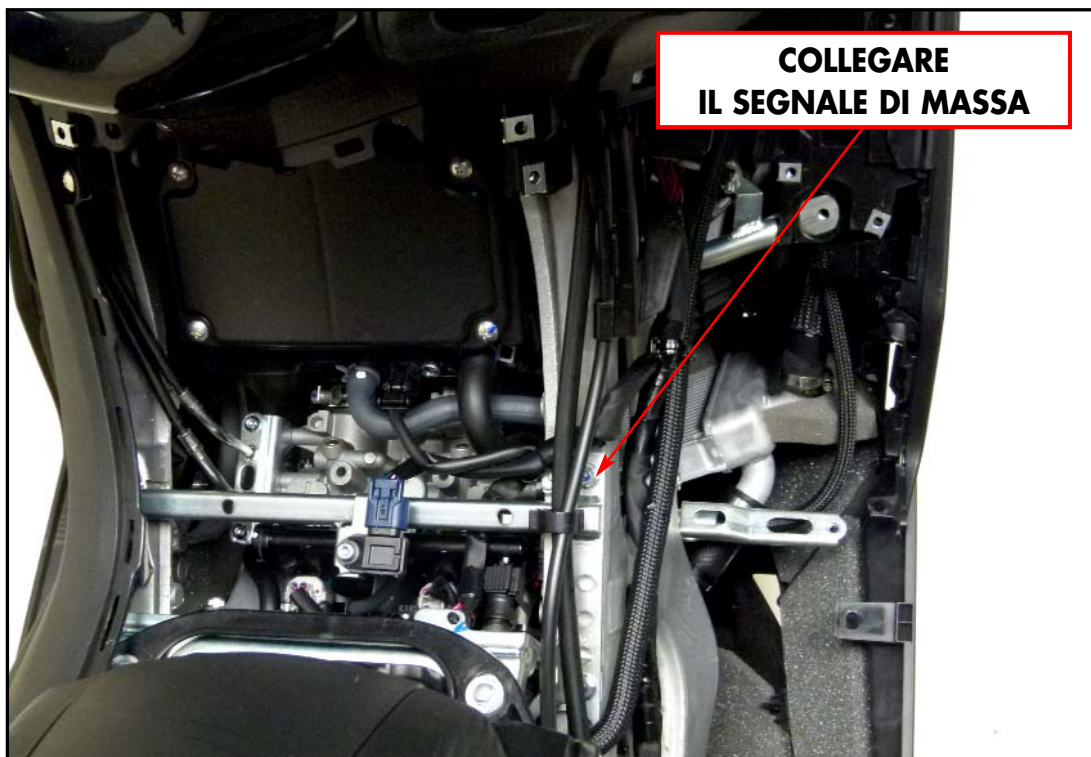
Connect the FAST wiring connectors to the original connectors and the related counterparts.



GROUND/EARTH

Connect the ground/earth eyelet of the FAST wiring to the point shown in the figure.

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CONNETTORI TPS

Disconnect the original connectors.



Connect the FAST connectors to the original connectors of the motorcycle.

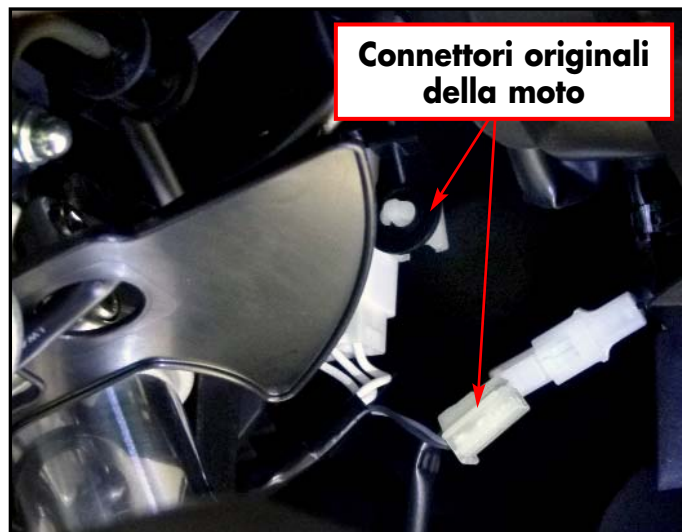


RPM SIGNAL CONNECTOR

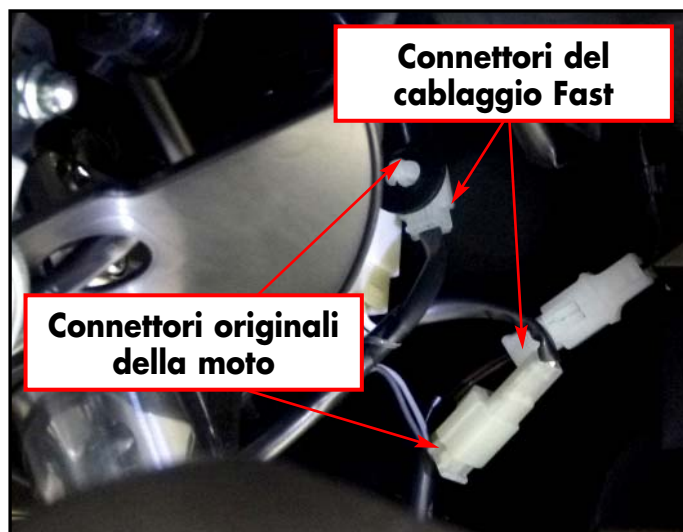
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The crankshaft sensor connector is located under the front casing, you can reach it without removing any casing through the space between the casing and the fork on the right side of the scooter.

Disconnect the original connectors.

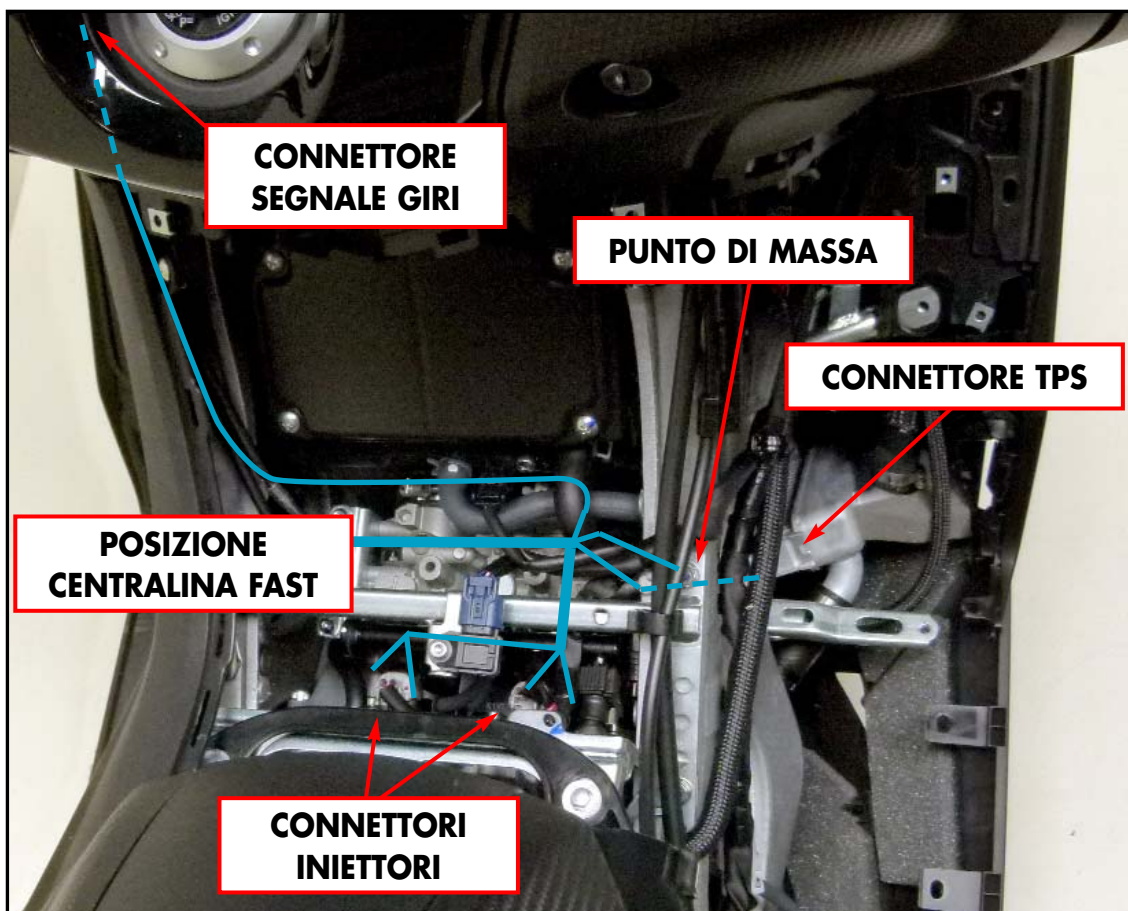


Connect the FAST connectors to the original connectors of the motorcycle.



Where appropriate, attach the wiring with zip ties, being careful not to squeeze the cable excessively while also leaving a little slack.

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8. FAST BOX INSTALLATION

Secure the FAST electronic control unit as shown in the figure below.





INSTRUCTION MANUAL
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