

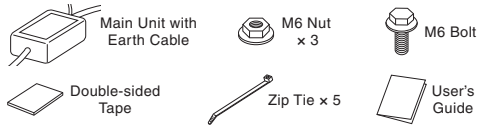
SPARKEARTH

High Power IGNITION Earth System

USER'S GUIDE

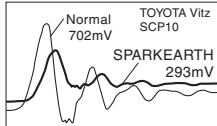
Thank you for purchasing PIVOT "SPARKEARTH". Please read these instructions carefully before installing or using this device. Please do not lose this user's guide, as you will held liable for the cost of reissuing it.

Please check the package contents



FEATURES

New Idea! Earth strengthening system specially designed for ignition.



Engine performance is greatly improved due to a more stable ignition which is brought about by the double effect of a strengthened earthing system and the noise filter circuitry that quickly suppresses noise when the ignition coil fires.

- Easy Installation** Wiring is only to engine and battery terminal.
- LED Monitor** The specially low energy consumption designed LED allows you to check operation status without putting a strain on your battery.
- Waterproofing** The circuit board has a waterproof coating and an internal fuse to give you extra assurance against wet conditions.

WARNINGS

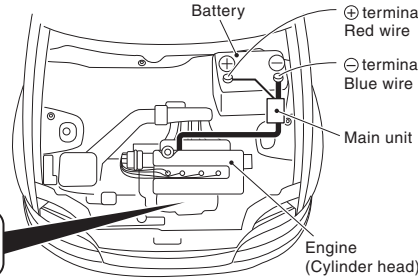
- Make sure wiring is correct to the battery ⊕ and ⊖**
Mixing these up may cause a short circuit and subsequent malfunction to the product or your car.
- During installation be sure to remove the ⊖ cable from the battery**
so as to prevent fire and damage resulting from the shorting of circuits, etc...
- Do not install in areas subject to water**
Circuitry has waterproof coating. But do not install in areas subject to water or spray with water.
- This product is for DC12V cars;**
installation cannot be carried out on cars with other voltage batteries.

ATTACHING TO VEHICLE

1 Check all connections

(Wires from the main unit)
Red wire = Battery ⊕
Blue wire (short) = Battery ⊖
Blue wire (long) = Engine (Head cover screw)

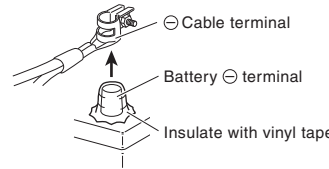
⚠ Can't connect to the exhaust side (muffler side) screw.



2 Installation preparation

1. Remove the ⊖ cable from the ⊖ battery terminal.
2. Insulate the ⊖ battery terminal with vinyl tape.

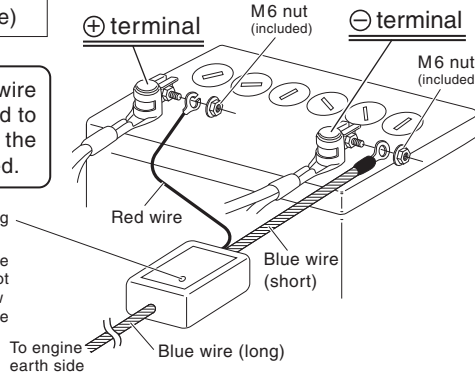
⚠ To prevent making any mistakes with the ⊕ and ⊖ and causing a short during installation, please make sure to insulate.



Basic Wiring (Battery side)

⚠ **NOTE** If the Blue wire is connected to the battery ⊕ terminal, the main unit will be damaged.

LED (LED will light up when wiring has been successfully completed)
※ Even when the key is OFF, the LED will not go off; this is not malfunction. Also, due to its low electrical current design there is no load put on the battery.



3 Connect the Red wire from the main unit to the battery ⊕ terminal

1. Remove the cover from the ⊕ terminal of the battery.
2. Fasten by inserting the terminal between the existing nut and the provided M6 nut.
3. Replace the cover after completing the connection.

⚠ If the cover does not insulate properly, please use vinyl tape to ensure proper insulation.

4 Check wiring

1. Remove the vinyl tape from the ⊖ terminal of the battery.
2. Connect Blue wire (short side) to the bolt of the ⊖ battery and check to see if the main unit's blue LED lamp goes on or not.
 - LED lamp goes on ⇒ Normal
 - LED lamp does not go on ⇒ Check all connections including whether ⊕ and ⊖ are properly connected.

5 Connect the Blue wire (short side) from the main unit to the battery ⊖ terminal

1. Properly connect the ⊖ cable terminal to the ⊖ battery terminal.
2. Fasten by inserting the terminal between the existing nut and the provided M6 nut.

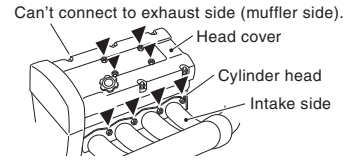
6 Connect the Blue wire (long side) from the main unit to cylinder head screw on the intake side

Loosen and take off the screw from the connection place and install a cable terminal.

NOTE

- The exhaust side screw becomes very hot and may cause damage, so do not attach to that side.
- The wire terminal hole is ø8, so please make sure to use a screw which is ø8 or less.

◀ = Example of connection for earth



REFERENCE

If you can loosen the screw but cannot remove it, cut the end of the terminal with pliers or other tool and squeeze the terminal into the space and tighten it on as you tighten the screw.



7 Fasten the main unit

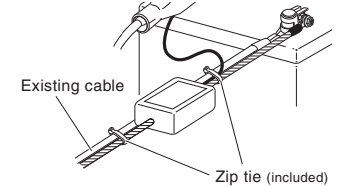
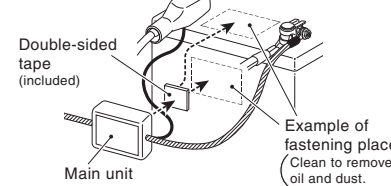
Please refer to the following if you wish to fasten down the main unit.

WARNING

1. Please fasten the main unit as far away as possible from the following hot places. (Near the Radiator, Radiator Hose, Near the Exhaust)
2. Do not pull the Red wire too tightly and leave some looseness in it.

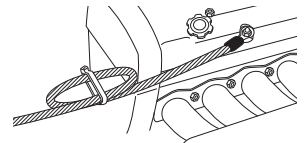
● Attaching to the battery

● Fasten with other cables



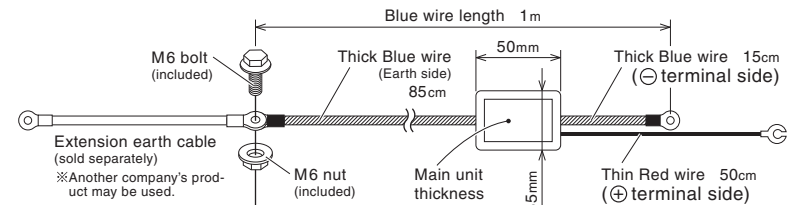
8 Pull together any extra wire

⚠ **WARNING** To ensure heat release, do not cut the extra wire, but gather together using the zip ties.



9 If there is not enough wire:

If there is not enough wire, use some other earth cable (sold separately) to create an extension wire.



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Pivot

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