

Top Spark Technology Pte. Ltd.

Installation Procedure of "BEST I" Cable Assembly

Product Warranty is valid only for proper installation.

Proper Installation Procedure of "BEST I" Cable Assembly:

- 1) a) Check the Spark Plug condition before installation of BEST I Cable, performance guarantee only with R-type Spark Plug; change the Spark Plug if it is fouled heavily with carbon deposit and or its electrode being corroded; b) Check the conditions of ignition coil; change the ignition coil if observe crack line.
- 2) Do not remove all the ignition wire sets at the same time from the Coil-Distributor connection and Distributor-Spark Plug connections. Follow the principle of remove one and an immediate replace one procedure using ignition cable with similar cable length and boots configurations.
- 3) Repeat the removing and replacement procedure one by one for all the other locations of Distributor-Spark Plug connections.
- 4) Make sure all the "BEST I" Cable assembly are fitted properly at all locations of Coil-Distributor connection and Distributor-Spark Plug connections. The cable terminals should be firmly locked or connected to the coil / distributor terminal and spark plug terminal.
- 5) Start the car engine, and check the followings to ensure vehicle is under proper operation :
 - Engine should be easy to start without vibration, quiet and smooth idling
 - Switch on the audio system to ensure no radio frequency noise interference
 - Switch on the air-conditioning system, if engine continues to operate if no electro-magnetic interference -----→successfully installed; if engine stop then change to a new set of R-type spark plug.
- 6) Contact "BEST I" Authorized Agent if installation unsuccessfully.

Remark:

- 1) Always check the spark plug condition: The conditions of existing spark plugs (e.g. excessive deposits of carbon / lead / fuel and oil additives, excessive wear of the electrode, and increase of plug gap) could cause engine starting problem and improper performance, loss of power and increase fuel consumption) . Replace with a new set of spark plug when needed. The normal expected life span of a spark plug is about 30000 – 50000 KM.
- 2) Always use R-type spark plug for perfect performance.
- 3) Its recommend to change cable wire set when there is a need to change spark plug, otherwise will suffer an increase in fuel consumption and loss of vehicle power.
- 4) Check the ignition coil condition, replace a new one if observed crack line on the ignition coil.
- 5) Cable removal from the coil / distributor terminal and spark plug terminal by pulling the rubber boots, not the cable.

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- 6) The life span of ignition coil is at least 2 years or exceeds 30000 KM, premature failure of ignition coil may occur due to dielectric leaking from its insulator.
- 7) Symptoms of bad ignition coil and or spark plug including rough engine idling, engine hesitation, reduce engine power, and increase fuel consumption.

Cable inspection procedure after installation; With the engine on, visual inspection of the ignition cable and also listen for any sign of :

- 1) Arcing – no intermittent spark occurring anywhere along the exterior of the spark plug cable (short of blue spark and heard as cracking or snapping noise) particularly close to the ground planes or other wiring
- 2) Soiling – make sure wire / boots / nipples are not caked with oil, grease and dirt
- 3) Damage – make sure wire / boots / nipples have no burns, cracks, chafing or damage (cut / swelling)
- 4) Arcing to grounds – spark plug wires should not be in contact or within ½" of any ground planes (e.g. exhaust manifold, engine bracket, etc.), to make sure spark plug wires are not arcing to any ground planes

Product Warranty:

- 1) A limited 30-Day warranty , extending period of warranty can be requested from the Dealer subjected to conditions and requirements.
- 2) The "Product" that claimed to be defective must be returned to the place of original purchase, with the proof of purchase, Upon assessment, the Company will, at its option, replace or repair the merchandise proved defective in materials and / or workmanship during the warranty period.
- 3) The warranty covers replacement of the "Product" only.
- 4) The warranty applies on the following conditions: -- The "Product" is working with the resistor-type (R-type) Spark Plugs, -- Solely on the original purchaser of the "Product" being installed on the vehicle it was originally installed, -- Proper handling of the "Product" during installation and removal processes.
- 5) The warranty does not include or apply to the following conditions: -- Cost of removal and installation of the "Product", -- Other incidental or consequential claims for labor or replacement of other parts, -- The "Product" being altered or tempered, improperly installed / maintained or repaired, or damaged by accident / negligence / misuse, -- The responsibility on any injury, property damage or other consequential damage arising directly

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or indirectly from improper handling of the “Product”, -- Damage to the “Product” resulting from overheating, oil leaks or battery acid.