

Antenna 3G010-M



MOUNTING REQUIREMENT AND SELECTING LOCATION

Select a mounting location. Ensure that there is adequate under panel clearance and that there is no double skin panel or cross brace present. Measure to check for central position if applicable.

If the antenna will be mounted co-located with other antennas or roof mounted equipment please try to ensure at least 30cm of clearance around the product in order to avoid de-tuning and interference issues.

Ground plane requirement: This antenna range does not require a ground plane in order to operate. If a ground plane is present it must be $\geq 500 \times 500$ mm in order to maintain isolation between the main cellular elements.



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ISO 9001

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PREPARE AND DRILL HOLE

Mask the panel area around the hole position to protect the paintwork and headliner. Drill a pilot hole, and then increase the hole diameter to 19mm (3/4"), ensuring that drill/cutter bit does not contact headliner. Clean area around the hole, carefully removing all swarf. Apply some petroleum jelly or paint around the hole to prevent corrosion.

FITTING THE ANTENNA

Remove the protective backing from the underside of the antenna and feed the coaxial cables through the panel. Position the antenna over the hole ensuring correct orientation and stick the antenna to the panel by applying firm downward pressure. Assemble the nut and washer from underside and tighten.

ROUTING AND TERMINATING COAXIAL CABLE(S)

Connect the extension coaxial cables to the antenna and route the cables to the radio equipment. When routing the cables take care to avoid running them adjacent to any existing vehicle wiring or fouling any moving vehicle components. The cables must not be routed in front of any airbag device. Fit the correct coaxial connectors or adapters to the cables as required.

COMMISSION AND TEST

Check the GPS cable (if applicable):

- ⊗ The connector body to centre pin should measure ~ 200 to 500Ω.

Check the comms cables:

- ⊗ Earth continuity: connector body to vehicle ground should measure <0.1Ω.
- ⊗ Connector body to centre pin should measure open circuit.
- ⊗ Carry out VSWR check, the VSWR on all feeds should measure <2.5:1 in transmit band.
- ⊗ Connect the GPS cable to the receiver and check for satellite acquisition.
- ⊗ Connect the Cellular/LTE and WLAN cables (if applicable) or secure unused pigtailed.

NOTICES:

CAUTION:

To comply with FCC RF Exposure requirements in section 1.1310 of the FCC Rules, antennas used with this device must be installed to provide a separation distance of at least 20 cm from all persons to satisfy RF exposure compliance.

DO NOT:

- ⊗ Operate the transmitter when someone is within 20 cm of the antenna.
- ⊗ Operate the equipment in an explosive atmosphere.



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Note ! Specifications subject to change without notice.

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