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KENWORTH TRUCKS

Troubleshooting Guide For
Multiband Antenna System

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VERIFYING KENWORTH TRUCK MODEL AND MULTIBAND ANTENNA SYSTEM

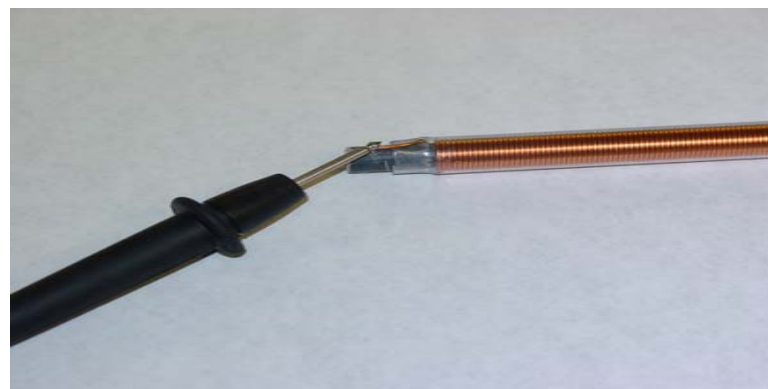
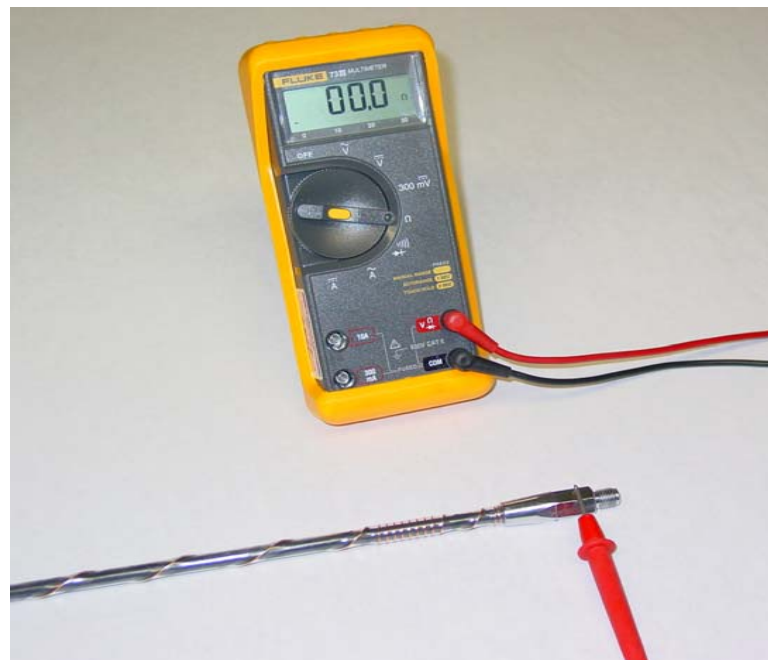
<u>Truck Model</u>	<u>Antenna System Type</u>	<u>RAMI Whip P/N</u>	<u>RAMI Multiplexer P/N</u>
T800 & W900 Models	Dual Whip System	MASC3AK1-48	MASC4AK1
T800 & W900 Models	Single Whip System	MASC3AK1S-48	MASC4AK1S
T600 Model	Dual Whip System	MASC3AK2	MASC4AK2
T600 Model	Single Whip System	MASC3AK2S	MASC4AK2S
T2000 Model With Weatherband	Dual Whip System	MASC3AK3R1-42	MASC4AK3W2

Troubleshooting Whip

Whip Antenna:

Verify that each whip antenna has a good connection/solder joint at the ferrule end of the antenna. Remove the antenna cap and make a small cut in the heat shrink if required to expose the wire. Do not allow the wire to come out of the slot and uncoil. Using an ohmmeter, check for dc continuity from the antenna ferrule to the tip of the coiled wire at the opposite end of the antenna. While checking for continuity, flex/twist the ferrule end to check for intermittent breaks at the solder joint.

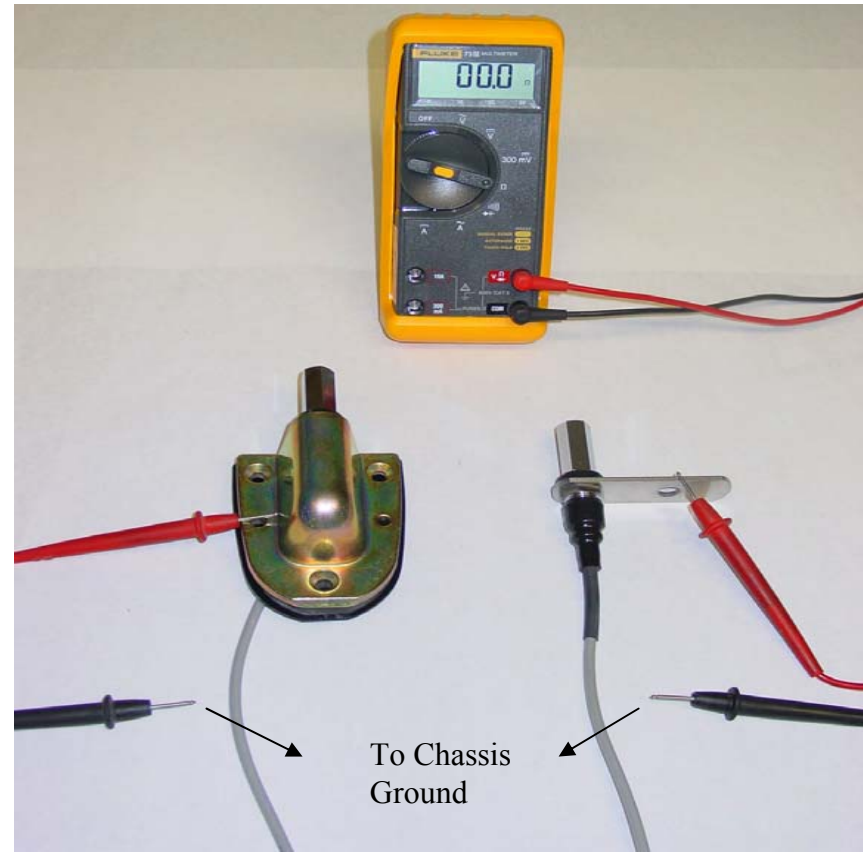
NOTE: The wire is coated with an insulating material. Before performing a continuity check, lightly sand the coiled wire end to expose a small “uncoated” portion near the tip of the antenna.



Troubleshooting Bracket



Using an ohmmeter, verify that the antenna mount bracket assembly has no dc continuity between the standoff nut and the ground portion.



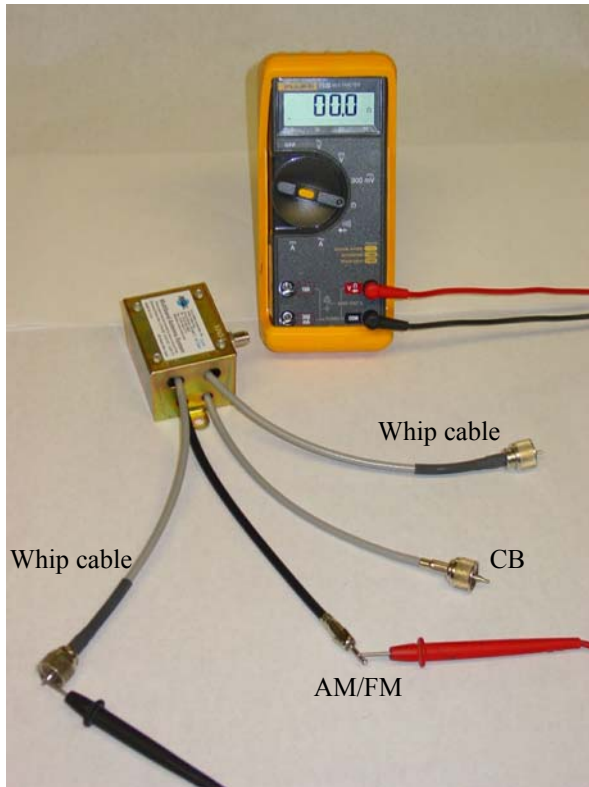
Then verify that the ground portion of the bracket has dc continuity to chassis ground (less than 5 ohms).

Troubleshooting Multiplexer Box

*Testing continuity through the CB cable is no longer possible as the internal components do not provide a D.C. path. To verify continuity through the whip antenna cables, checks are made to the AM/FM Motorola connector.

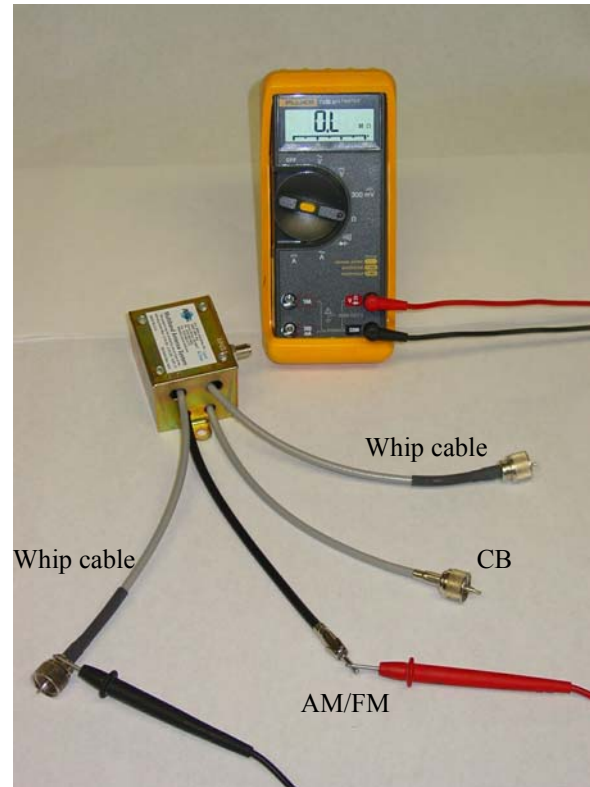
*T2000 Model must have a ground strap from the multiplexer box to the ground terminal on a radio.

Center to Center



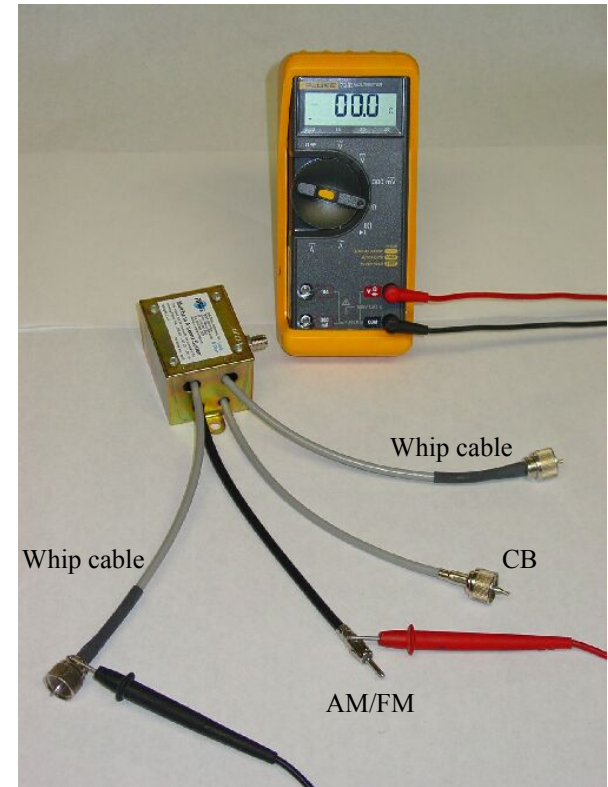
With cables disconnected from the bracket mount assemblies Test from the AM/FM cable center conductor to the whip cable center conductor – dc continuity

Center to Outer



With cables disconnected from the bracket mount assemblies Test from the AM/FM cable center conductor to the whip cable outer conductor – no dc continuity

Outer to Outer



With cables disconnected from the bracket mount assemblies Test from the outer shell of the AM/FM cable connector to the whip cable outer conductor – dc continuity