

# BENDIX IGNITION LEAD CONVERSION

---

BENDIX MAGNETO HARNESS CONVERSION TO 8.5mm  
SUPER CONDUCTOR AUTOMOTIVE SPARK PLUG WIRES

## *GENERATION 3 IGNITION*



## BENDIX MAGNETO HARNESS CONVERSION TO 8.5mm SUPER CONDUCTOR AUTOMOTIVE SPARK PLUG WIRES

This is a general description on converting existing stock shielded aircraft ignition harnesses and magneto harness cap to automotive type spark plug leads for the use of automotive spark plugs.



1. Remove existing harness wires.



2. Punch out wire inserts.



3. Drill holes to 5/16"



4. Tap hole to 3/8" x 16 coarse thread pitch. Chamfer holes each side. De-burr threads lightly.



5. Trim wire to leave a 1/8" of center conductor protruding.



6. Use silicone RTV on the cap thread to act as lubricant/adhesive. Very slowly screw wire into cap. Do not twist/tear the wire. If you break the fiberglass core, it will be heard and felt. This small section of damaged wire must be cut-off and removed, start over.



7. Continue threading in.



8. Install insert/rivet on center conductor.



9. Wiggle around and push on.



10. Continue to seat,



11. Seat completely and cut off center conductor flush.



12. Adjust total height to .850" from the top of slight rise in cap.



12a.

13. After installing all the spark plug leads. Before installing the silicone nipples. Test fit the harness assembly onto magneto. There should be about .125" to .180" of spring tension holding the harness cap up. This ensures that the insert is contacting the spring. If not check distributor block tower spring for distortion. Measuring down from the top of the distributor tower to the top of the spring can check the terminal spring height. If measurement exceeds .422 the spring maybe deformed or improperly installed. Make sure spring is captivated in groove of block insert. If measurement still exceeds .422" replace spring.



14. Install insulator nipple.



15. Properly crimped spark plug terminal end.

**Note:** When installing harness cap to magneto, use DC-4 or other suitable dielectric compound to aid installation and seal where the nipples are fitted into the distributor block.