



MOTOROLA

**IGNITION SENSE CABLE
MOTOROLA KIT NO. HKN6128()
INSTALLATION INSTRUCTIONS**

NOTE: The empty parentheses at the end of the kit number mentioned in this document stands for the alphabetical character (A, B, etc.) that denotes the revision level of the kit. The revision level of the kit may change from time to time without affecting the validity of these installation instructions.

Introduction

The ignition sense cable is an accessory for the MCS 2000 radio. It allows the radio to be turned on and off with the vehicle ignition switch.

Contents of Kit

The ignition sense cable kit consists of the components listed in table 1. The components are illustrated in the paragraph titled Installation Instructions. The Motorola Part Numbers given in the first column of table 1 are for reference only. Those parts, except for the fuse, Motorola Part No. 6580283E01, are *not* available separately from Motorola Parts Suppliers.

Table 1 Components of Ignition Sense Cable Kit No. HKN6128()

Motorola Part Number	Quantity	Description
3005707Y01	1	Ignition Sense Cable, 21-Foot Long (with accessory plug pin, Motorola Part No. 3984257L01, crimped onto one end)
3080094G02	1	Fused Power Cable Adapter (with female contact, Motorola Part No. 2802098M03, crimped onto short lead)
6580283E01	1	Fuse, 3-Amperes, Blade-Type, Fast Acting
2802496Y01	1	Faston Receptacle, Type PIDG, AMP Part No. 9-160463-2
2802496Y02	1	Circular Connector Plug, Type PIDG, AMP Part No. 165590-1
4210217A02	2	Tie Strap



Tools Required But Not Supplied

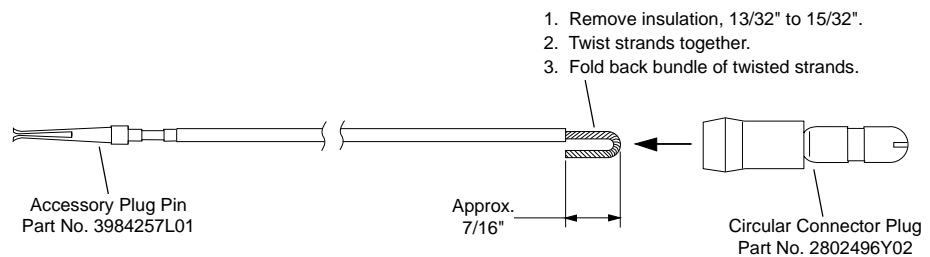
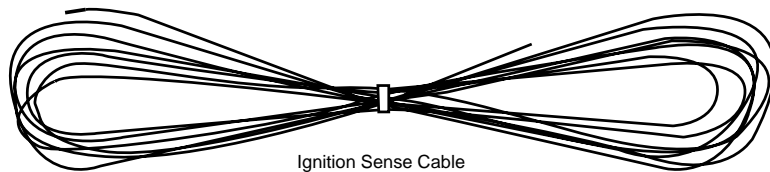
One of the following two crimping tools is required for installation of the ignition sense cable: AMP Hand Crimping Tool No. 47386; or AMP TETRA-CRIMP Hand Crimping Tool No. 59824-1.

Installation Instructions

Installation of the ignition sense cable consists of the following three procedures: connecting ignition sense cable to radio accessory plug; routing ignition sense cable and cutting it to proper length and attaching plug to free end; attaching receptacle to fused power cable adapter; connecting ignition sense cable to fused power cable adapter; and connecting fused power cable adapter to vehicle power source. Each of these procedures are provided in the subparagraphs that follow.

Connecting Ignition Sense Cable to Radio Accessory Plug

1. Refer to MCS 2000 Mobile Radio Installation Manual, Motorola Publication 68P02058U20, for accessory plug disassembly and reassembly instructions.
2. Unplug accessory plug from accessory connector on bottom of radio.
3. If radio is low and mid power type, thread pin end of ignition sense cable through strain relief device on bottom or rear of radio. If radio is high power type, thread pin end of ignition sense cable under tiedown strap on rear of radio mounting tray.
4. Disassemble accessory plug, insert connector pin on end of ignition sense cable into pin location 15, then reassemble accessory plug.
5. Plug accessory plug back into accessory connector on radio.



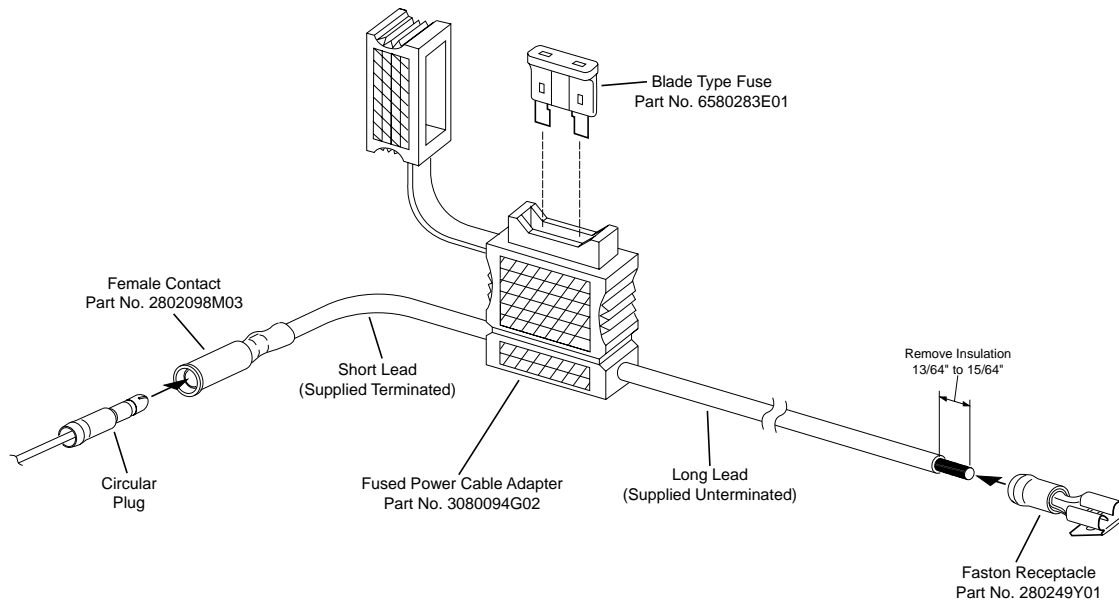
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Routing Ignition Sense Cable, Cutting It To Proper Length, and Attaching Plug to Free end

1. Refer to the illustration above. Route ignition sense cable as required from radio to area in vehicle where it is to be connected to vehicle power source. Be careful to route the cable in such a way that it will not be subjected to abrasion, stretching, sharp bends, or other types of injury that may lead to its eventual failure.
2. Remove 0.4 to 0.5-inch of insulation from end of ignition sense cable being very careful to avoid nicking or otherwise damaging strands of cable.
3. Twist strands of cable tightly then fold back end of twisted strands so that end of twisted strands just touches the point where insulation ends on cable.
4. Insert twisted strands of cable into circular connector plug so that when plug is crimped back crimp will grasp end of insulation on cable and front crimp will grasp folded back twisted strands of cable.
5. Using AMP crimping tool No. 47386 or 59824-1, crimp circular connector plug onto end of ignition sense cable so that back crimp grasps end of insulation on cable and front crimp grasps twisted strands of cable.

Attaching Receptacle To Fused Power Cable Adapter

1. Refer to illustration below. Remove 0.2 to 0.3-inch of insulation from unterminated wire of fused power cable adapter.
2. Twist strands of wire together and insert into Faston receptacle so that when receptacle is crimped back crimp will grasp end of insulation on wire and front crimp will grasp twisted strands of wire.
3. Using AMP crimping tool No. 47386 or 59824-1, crimp Faston receptacle onto end of fused power cable adapter wire so that back crimp grasps end of insulation on wire and front crimp grasps twisted strands of wire.



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Completing
Installation of
Ignition Sense Cable

1. Open top of fuseholder on fused power cable adapter and ensure that fuse *is not* installed. If necessary, remove fuse by grasping top edge with fingers and pulling it straight out.
2. Connect Faston receptacle on wire of fused cable adapter onto hot terminal (switched or unswitched) of vehicle ignition switch or other source of vehicle power.
3. Plug circular plug on end of ignition sense cable securely into female contact on wire of fused power cable adapter.
4. Install fuse in fuseholder of fused power cable adapter.