

Craig W460 hidden AUX input by Rhye

DIY manual

1.1 General description

- **AUX input that can be switched on or off any time in AM/FM tuner mode by using Dolby pushbutton (Dolby LED is used as an indication)**
- **FM and AM tuners are switched off when AUX input is on (no interference)**
- **Loudness / Treble / Bass / Balance / Volume controls work normally in AUX mode**
- **No impact on Dolby filter (tape mode) or any other function**
- **Automatic antenna will retract when in AUX or Tape mode**
- **No need to install additional AUX switch**
- **Bluetooth transmitter can be used as an audio input device (can be hidden - no impact on car's interior look)**



Radio mode

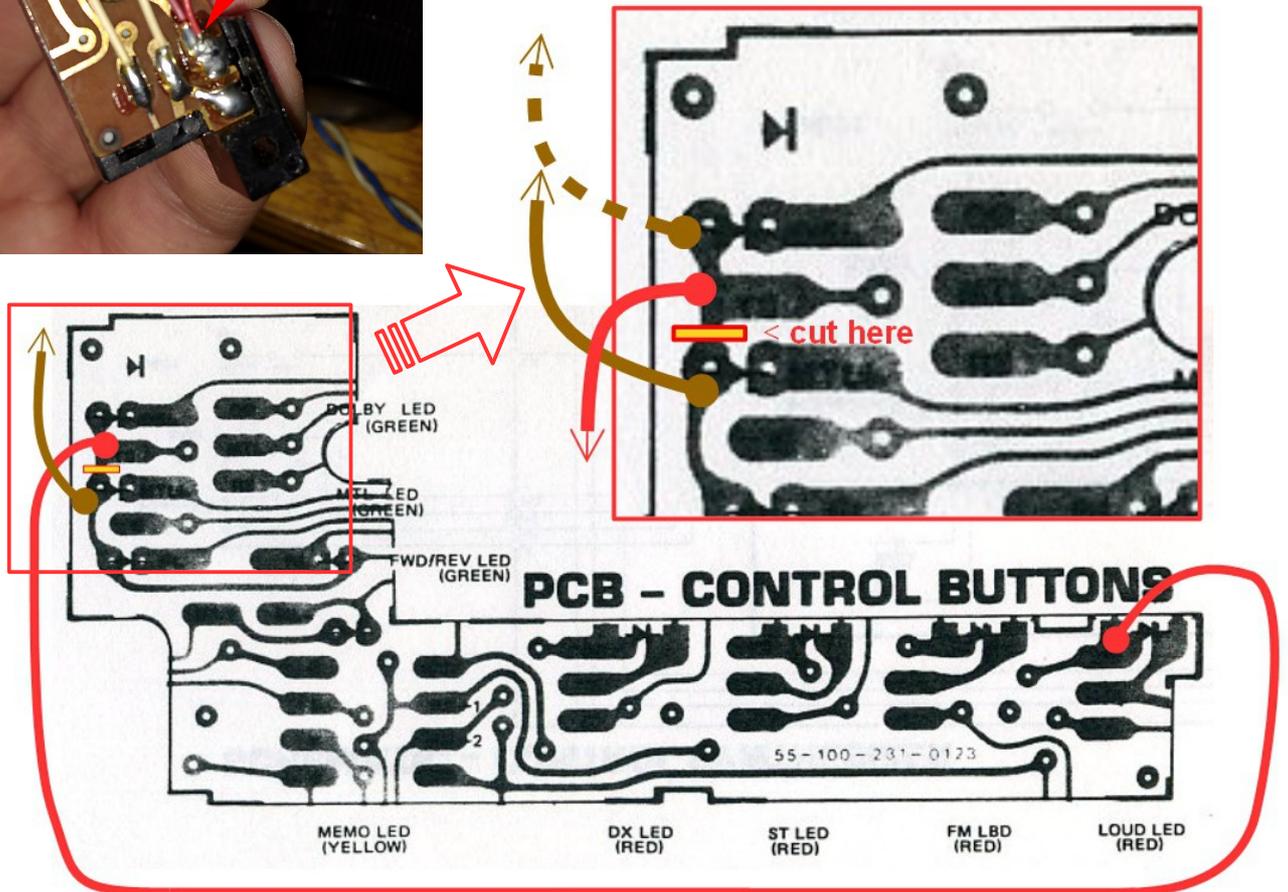
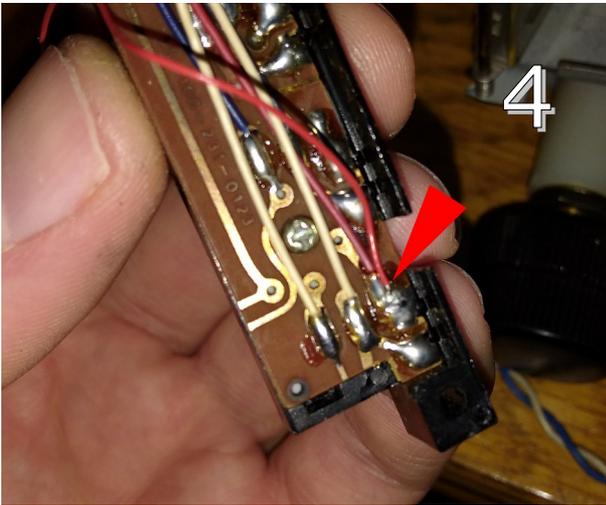
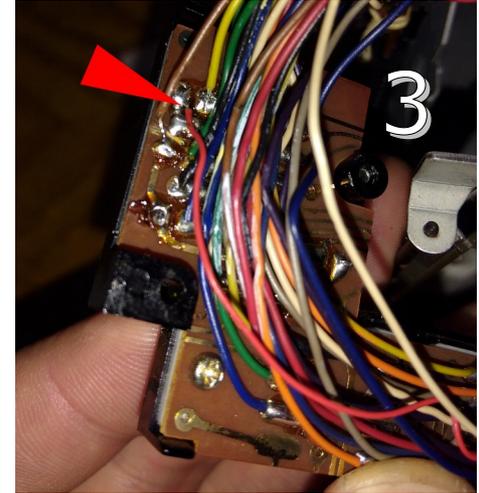
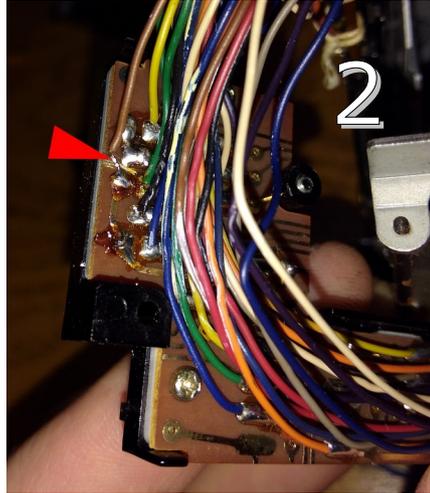
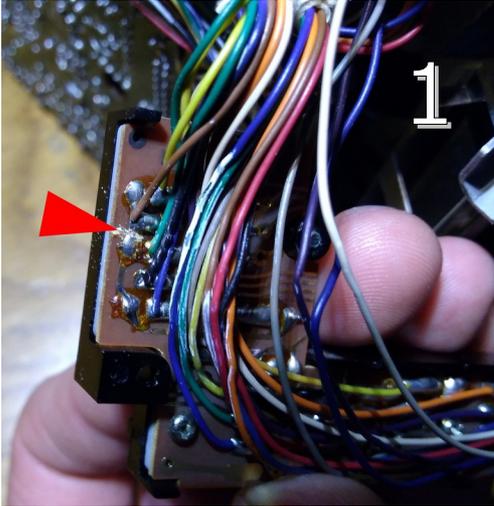


AUX mode

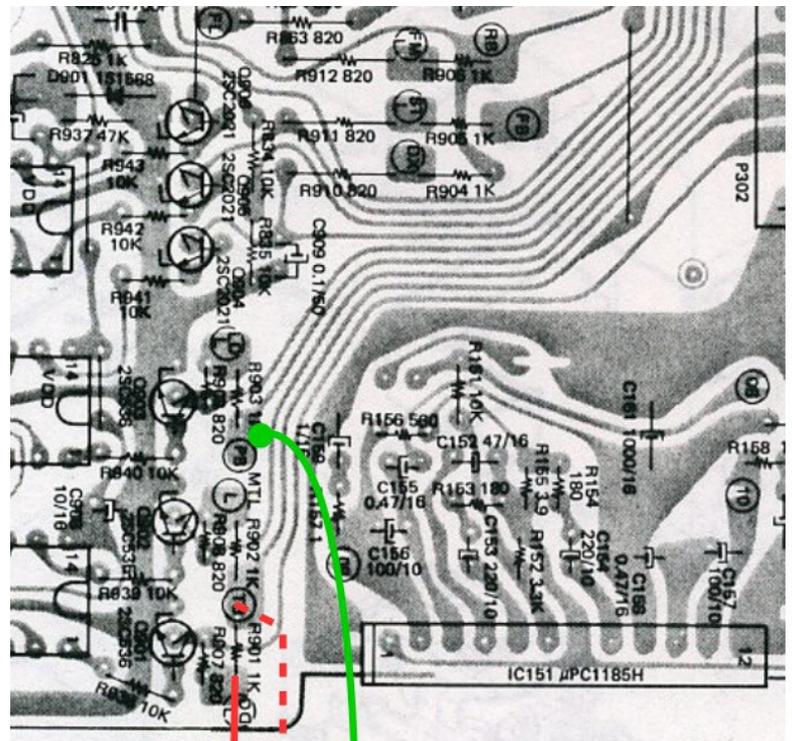
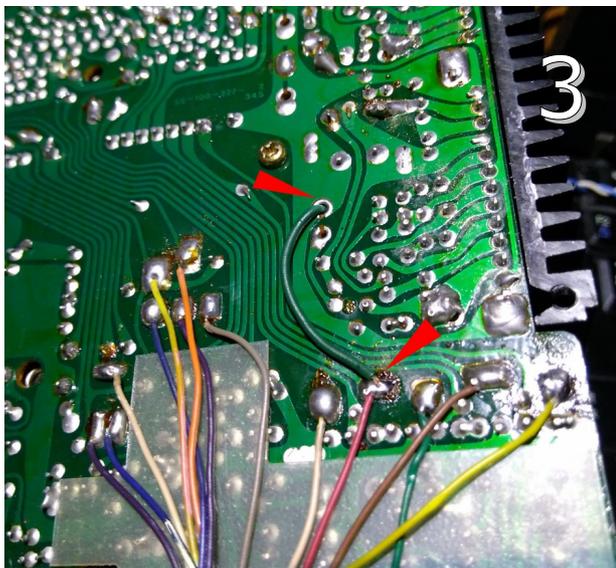
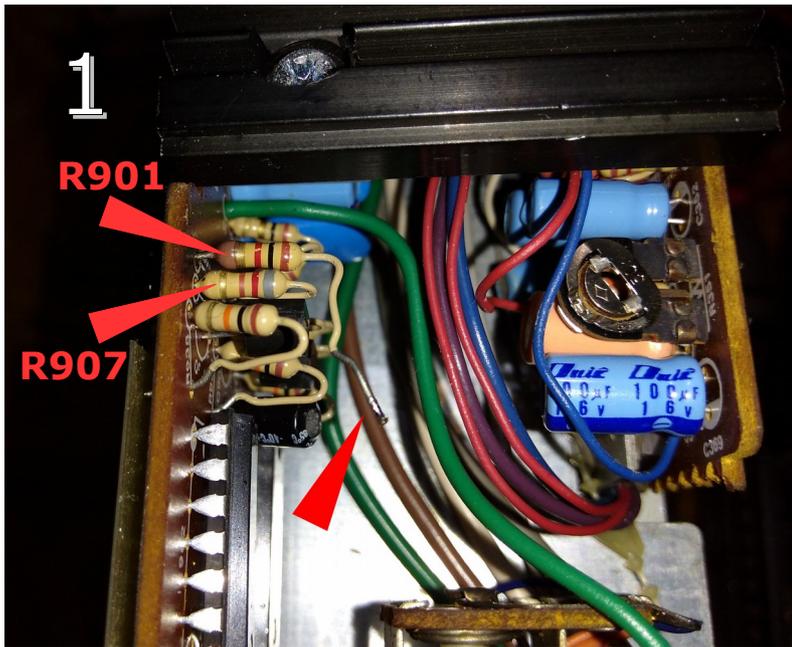
1.2 BOM:

Relay	ST3 002 H 12 W or equivalent	2pcs
Resistor	330 Ohm 0,25W 5%	1pc
Plug	3.5 mm Jack stereo plug, male (or other, depending on needs)	1pc
Cable	2-wire shielded stereo cable (length acc. to your needs)	
Double-sided self-adhesive tape	14x9mm (0.55x0.35 in)	2pcs
Heat-shrinkable sleeves (various lengths and sizes - see further description)		
Single wires (various lengths and sizes - see further description)		
Solder		
Acetone		
Cable ties, 3mm wide (or smaller)		

2.1. Remove both covers and front face of the radio. Remove switch panel. Make a cut through switch panel PCB path (1). Unsolder the brown wire and solder it back to the pad under the cut (2). Solder thin wire across the pads of dolby pushbutton/LED and loudness pushbutton/LED (3) (4). Install the switch panel back in place.

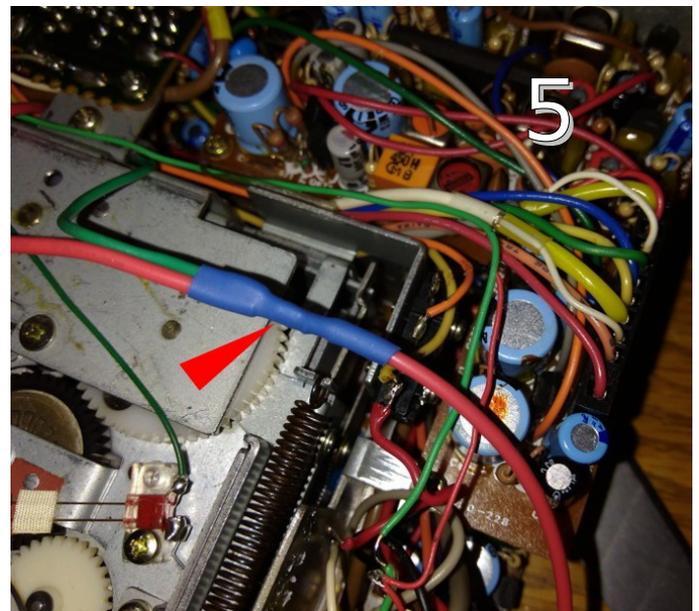
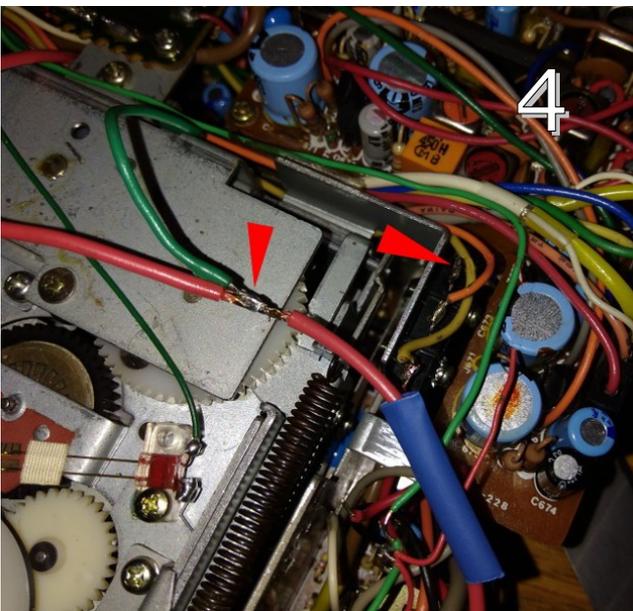
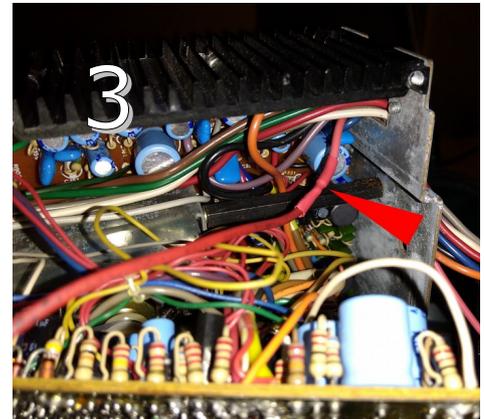
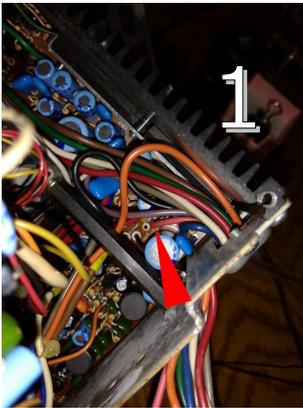


2.2. On main PCB, near the black radiator: replace the 800 Ohms 0.25W R907 resistor with a 330 Ohms 0,25W. Unsolder one side of R901 resistor (1) and solder ~ 110mm (4,3 in) of wire to this end and protect the joint with heat-shrinkable sleeve (2). Remove the pre-amp/dolby/motor goveror PCB. Route R901 wire through a hole in main PCB and connect to "PB" pad (3).

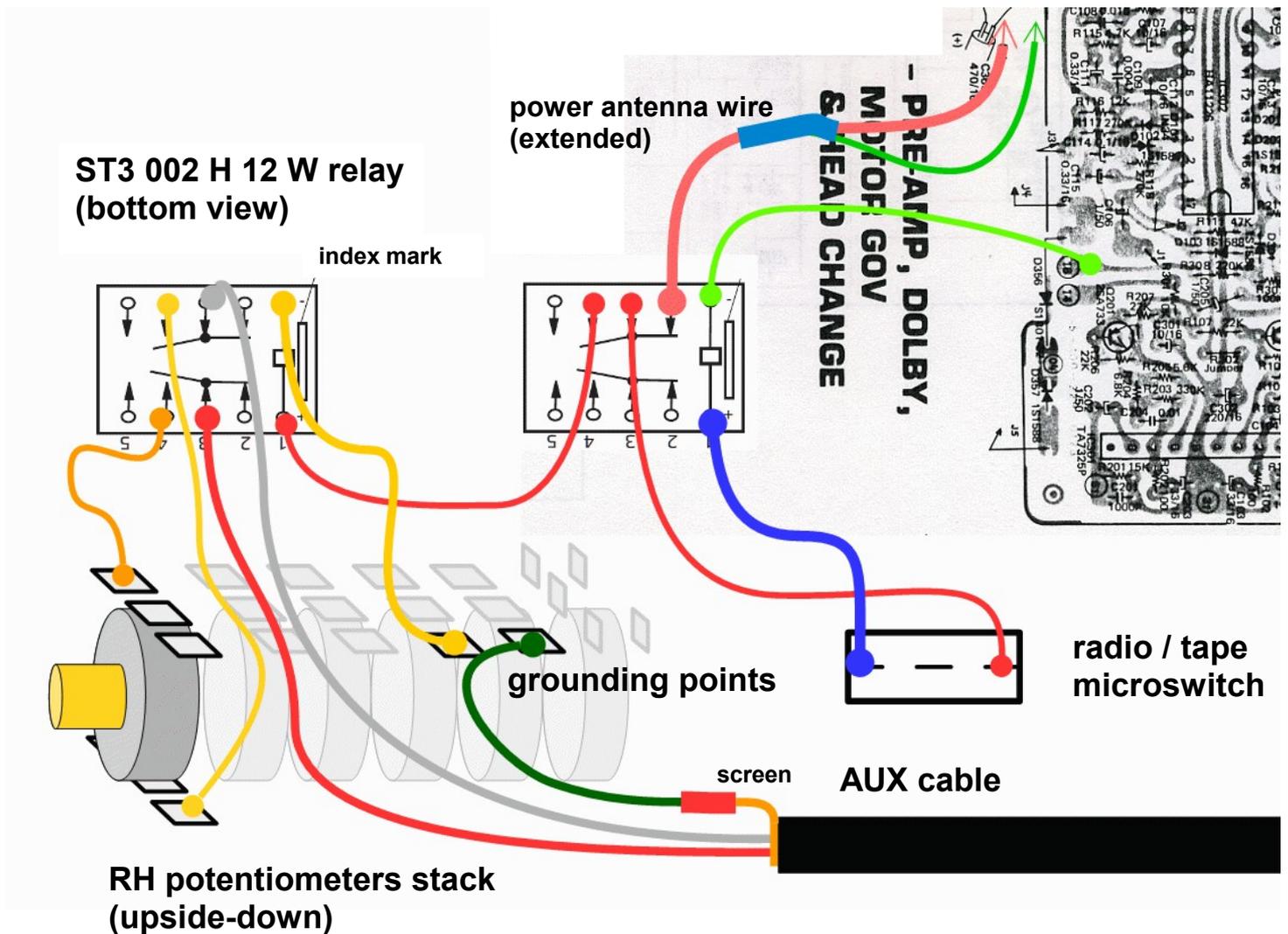
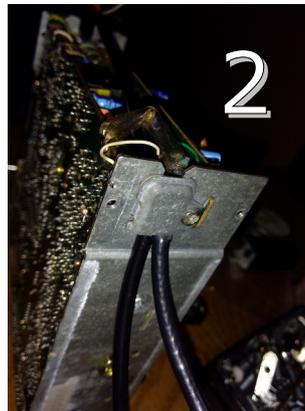
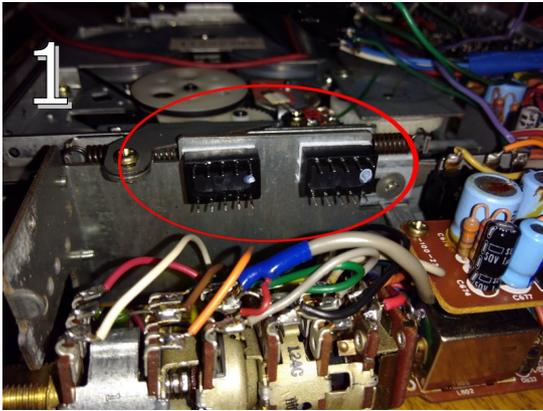


R901

2.3. Find and unsolder power antenna wire (1) (2). Extend it by soldering ~190mm (7,5 in) of wire of a similar gauge (3). Unsolder the radio power line (green wire) out of the radio/tape microswitch. Aling both wires. Take out small section of the insulation of the extended antenna wire in place where the end of radio power wire points (4). Solder radio power wire to the exposed antenna wire and protect the joint with heat-shrinkable sleeve (5).



2.4. Install two ST3 relays by sticking them to a chassis under volume/balance/treble/bass potentiometers by means of a double-sided self-adhesive tape - mind the position of index mark so you don't confuse the pins once the top face of the relay becomes invisible (1). You can temporarily unscrew the potentiometers and move them slightly away to make things easier. Route the AUX cable - you can lead it out of the chassis using antenna cable outlet, there's some space left there (2). Secure end of the cable near the potentiometers with a small cable tie. Connect both relays and AUX cable (3) according to the drawing.



2.5. Connect jack stereo plug (or any other connector you need) to the other end of the AUX cable according to the diagram. Assemble the radio back and test it on a bench or inside the car.

