



THE KEY TO O.E.M. INTEGRATION

Tech Brief

Sirius Retention w/ CHYX REF Series Only

Sirius retention with CHYX

This is the solution to the issue of retaining factory Sirius in Chrysler/Dodge vehicles with REF series radios when using the CHYX. The series of the radio can be found below the tuning knob on the face of the radio. Using a common relay and a single pull, single throw (SPST) switch, you can now select between the 2 sources by following the diagram provided.

Factory Sirius as primary source

First locate the factory Sirius module. Cut the constant power wire in the Sirius harness and connect the end closest to the Sirius module to position 87a on the relay. Next wire a SPST rocker switch between ground and position 86 on the relay. Make sure to keep switch in the off position until all wires have been connected to the relay. Cut the yellow wire that connects the CHYX to the 22 pin T-Harness and re-insulate the portion of yellow wire still connected to the T-Harness to avoid shorting. Now connect the yellow wire from the CHYX harness to position 87 on the relay. Next take the other end of the cut constant power wire from the factory Sirius harness and connect it to position 30 on the relay. The last step is to connect position 85 to accessory power directly to the vehicle's FUSE BOX. Once these connections are made the relay will now be energized when the switch is in the on position. This wiring configuration makes the factory Sirius the primary source and will play when the switch is in the off position. **Note: There may be a slight delay when switching sources due to the radio updating channel listing.**

CHYX as primary source

First locate the factory Sirius module. Cut the constant power wire in the Sirius harness and connect the end closest to the Sirius module to position 87 on the relay. Next wire a SPST rocker switch between ground and position 86 on the relay. Make sure to keep switch in the off position until all wires have been connected to the relay. Cut the yellow wire that connects the CHYX to the 22 pin T-Harness and re-insulate the portion of yellow wire still connected to the T-Harness to avoid shorting. Now connect the yellow wire from the CHYX harness to position 87a on the relay. Next take the other end of the cut constant power wire from the factory Sirius harness and connect it to position 85 on the relay. The last step is to connect position 85 to accessory power directly to the vehicle's FUSE BOX. Once these connections are made the relay will now be energized when the switch is in the on position. This wiring configuration makes the CHYX the primary source and will play when the switch is in the on position. **Note: There may be a slight delay when switching sources due to the radio updating channel listing.**

Tech Note:

Whichever source you choose as the primary should be wired to position 87a on the relay. This way that source will play through with the switch in the off position. If position 85 is connected to constant power, the switch should be kept in the 'off' position when the vehicle is not in use. If the switch is left in the 'on' position the relay will be energized and cause a slight current draw (typically 200mA) which could eventually run down the vehicle's battery.

