

Install double DIN in R53

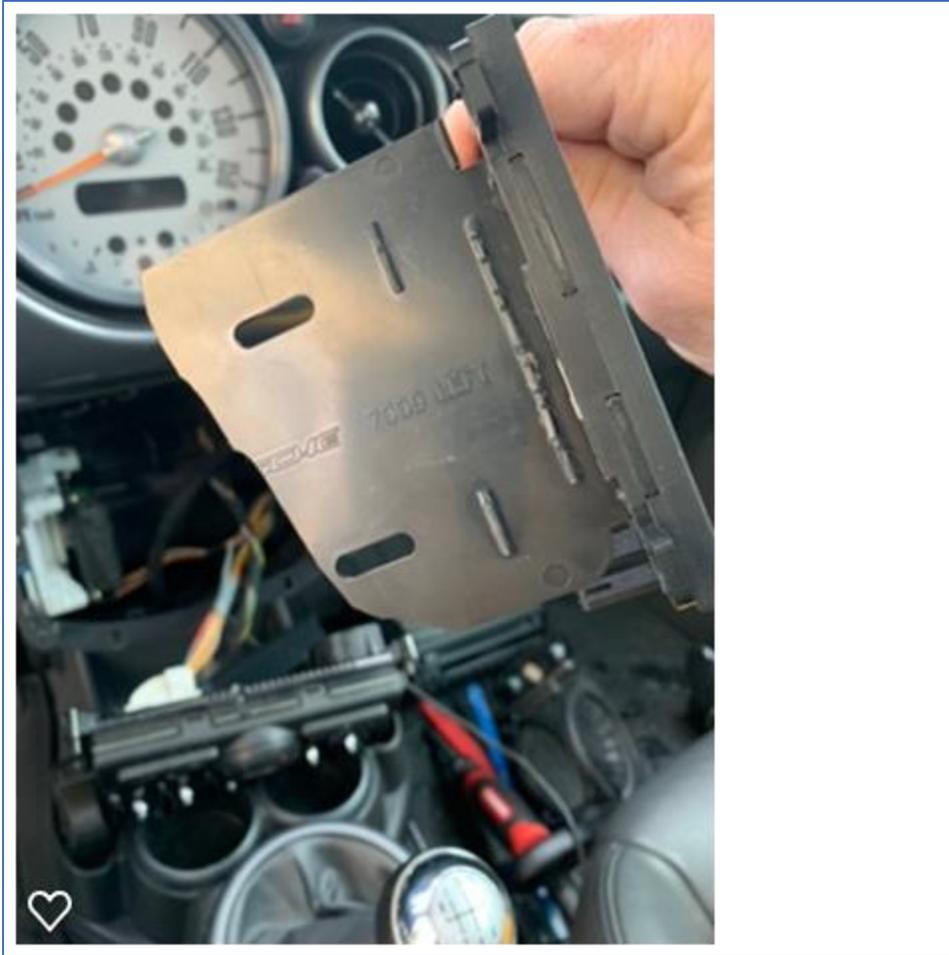
This is for a R53 with the non-HK radio, the sport wheel, no Bluetooth, and auto climate control. It may work for other configurations but I don't know that for sure and would no doubt require changes to what's included below.

1. Remove old radio. Remove down tubes by unscrewing from the sides. To provide clearance you can pop the lower part of the dash. Lift the tubes clear of the foam block and set aside.
2. Remove the rest of the center console including the shifter and parking brake covers. If you're going to fit a rear camera you'll want to remove the rear seats too.
3. Unscrew the radio, HVAC controls, and the switch panel
4. You'll need to cut the center console. I used a combination of a vibrating saw and a Dremel with a metal cutting wheel.
5. Cut the horizontal radio bar out as flush to the sides as possible.
6. There are two options to make room for lowering the rest of the controls.
 - a. The first is what I did. Cut the lower part of the dash out with enough clearance for the HVAC controls to go in, this was about 3 inches out of the lower portion (in the mount photo this is the lower upward curved section and then I had to cut the curved side part of the lower dash (the face portion) to make room for the HVAC controls. I just did this by trial and error cutting a little at a time until I had to room I needed. You'll need to create new slots (really extend existing slots) for the HVAC tabs to go into and you'll need a couple larger holes for the round tabs to fit into. This will be obvious when you start fitting this.
 - b. The second option is to cut the lower dash out completely and reattach it using some aluminum flat bar. This is probably easier since it means you won't be cutting slots and you'll have less drilling to do. Similar to what this guy did, but I wouldn't glue like he did, I'd just use the adapter from Scosche and get some flat bar to tie everything together. <https://www.minitorque.com/threads/r53-double-din-apple-car-play-install.206331/>:



c.

7. Get the [Scosche GM1590DDB Double DIN Dash Kit](#) out and cut the tabs off the top and bottom of the face. Take both sides and cut all the tabs off so you're left with just a couple flat pieces. Fit those to the face, they will click in but they'll fight you the entire time. They're labeled left and right, that's as you're looking at the bracket from the front. Cut down the left side to clear the HVAC equipment, see photo. That white plastic piece on the left in the background is what you're making room for.

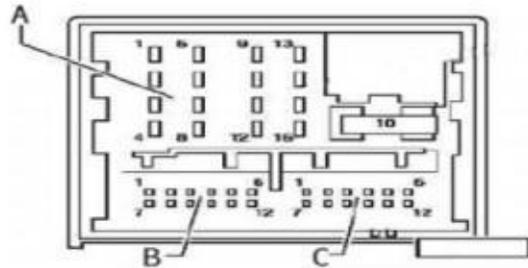


8. Screw the new radio to the mount using the provided screws and slide it into position at the top of the console area.
9. While holding it at the top drill a couple new holes through the top holes in the bracket for your old radio screws. Screw the unit in using the new holes you just drilled, top only. Remember you're screwing into plastic so go easy.
10. Grab the HVAC controls and start your cutting. In the photo above it's that lower grey curved part you'll be cutting into. You won't be able to see this once it's all back together so don't worry too much about making it pretty. Cut in small pieces, you can always cut more but it's hard to put material back. Again don't worry too much about it you can't see it when it's back together. Once you get the HVAC controls to fit you can screw them in through the lower holes in the radio surround and then screw the switch panel to the HVAC controls. This photo shows the mockup, you can see the extended slots and how it fits into the lower part of the dash. The switch panel is just hanging in space. As I mentioned elsewhere though once the side tubes are cut and fitted this is pretty solid and you could leave it as is.



11. I cut some ½ wide aluminum bar with the holes and slots to match the radio/HVAC/Switch mounting. Frankly this is probably overkill once the controls as mounted are pretty solid but I had the material handy so I did it anyway. No photo I forgot to take one.
12. Prep your wiring harness. Get your ASC Audio Car Stereo Radio Wire Harness (part: B072KB1SST). Note that this kit includes the required antenna adapter but didn't include the pin for the Axxess steering wheel controls (This is pin 9, I used a vampire tap for that wire). Using the diagram below crimp or solder your connections. I only needed connector A, make sure you remove the blue plugs from the factory connector.
 - a. If you're using the Metra Axxess ASWC-1 Universal Steering Wheel Control Interface include its wires in the ground and accessory wire connection in the main harness (pin 16 power, and pin 12 ground). Note that there are only 3 wires from that Axxess harness you'll need: the power, ground and wheel control, pin 9 in the car's harness.
 - b. Include the antenna amplifier connection with your accessory power for 3 wires total. Do not use the power antenna wire for this.

Radios New Generation 40 Pins



(A) Conector 16 Pines XI8126 / XI3646

| PIN # | Funcion | PIN # | Funcion |
|-------|-------------------|-------|-----------------------------|
| 1 | Spk Rear Right + | 10 | PHONE MUTE / (Speed Signal) |
| 2 | Spk Front Right + | 11 | TEL ON |
| 3 | Spk Front Left + | 12 | GND |
| 4 | Spk Rear Left + | 13 | 12V Ant Out |
| 5 | Spk Rear Right - | 14 | 12V Ilum (58g) |
| 6 | Spk Front Right - | 15 | 12V Dir (30) |
| 7 | Spk Front Left - | 16 | 12V Acc (R) |
| 8 | Spk Rear left - | | |
| 9 | I-BUS | | |

(B) Conector 12 Pines XI3598 o XI3321

| PIN # | Funcion | PIN # | Funcion |
|-------|--------------------|-------|-----------------------|
| 1 | Line OUT Left | 7 | Line OUT Right |
| 2 | CD CHG GND | 8 | CD CHG Audio Left In |
| 3 | Line OUT GND | 9 | CD CHG Audio Right In |
| 4 | VCR Audio Right In | 10 | Nav/TV Audio Right In |
| 5 | VCR Audio Left In | 11 | Nav/TV Audio Left In |
| 6 | VCR Audio GND | 12 | Nav/TV Audio In GND |

(C) Conector 12 Pines XI3649

| PIN # | Funcion | PIN # | Funcion |
|-------|------------------|-------|------------------|
| 1 | Tape Left + | 7 | Tape Right + |
| 2 | Tape Left - | 8 | Tape Right - |
| 3 | AUX Input Left | 9 | NAV BUS |
| 4 | AUX Input Right | 10 | AUX Input GND |
| 5 | NAV/TV Audio + | 11 | NAV/TV Audio - |
| 6 | Phone Audio In + | 12 | Phone Audio In - |

13. You'll need to run the yellow/blue wire from the Alpine harness to the parking brake wire, see photo. I used another vampire tap for this connection. You can also fit a bypass module if you'd rather.



14. If you're adding a backup camera you'll need to tap into the backup light circuit. You can probably do this in the right foot well BCM but since I had to run a wire from my backup camera I ran a second wire for the back up circuit (the Orange/White wire from the Alpine harness). I vampire tapped into the backup wire at the rear light for both the trigger and camera power.
15. You'll need to cut the down tubes to allow the lowered HVAC/switched to fit. Like this photo I swiped from the Internet. I think I cut about 4 inches out but I just cut a bit at a time until I got the fit I wanted. Match roughly the vertical original cuttings. I put some sound deadening material inside to help with any buzzing, keep this pretty high to avoid it getting hung up on the lower foam blocks. I didn't find it necessary to put the felt over the edges, no new rattles.



16. Pull everything out and connect all the wires and fit it all back into the dash. Program the steering wheel controller before putting the rest of the interior bits back in.

Here are the parts I used:

- Alpine iLX-W650 or any other <3" deep double din radio, anything over about 2.75" will require cutting some of the HVAC plastic or letting the unit stick out past the face. You'll probably need a different dash kit at that point.
- Metra Axxess ASWC-1 Universal Steering Wheel Control Interface
- ASC Audio Car Stereo Radio Wire Harness and Antenna Adapter to Install an Aftermarket Radio for some BMW and Mini Cooper (includes antenna adapter, if you buy a different adapter make sure you get an antenna adapter too).
- Scosche GM1590DDB Double DIN Dash Kit for Select 1992-Up GM & Select 1992-2008 Honda/Isuzu/Suzuki
- HD 720p Backup Camera Waterproof Rear-view License Plate Rear Reverse Parking Camera for BMW E82 E88 E93 E60 E61 E39 E53 E90 E92 M3 Mini cooper R50 R52 R53 (this required heavy modification to fit)