



Installation Instructions

Audio, iPod Interface

Ver 1.0

Page 1 of 13

June 2004

Accessory
Development

SUBJECT

iPod® Interface Kit - P/N 65 11 0 392 134

MODEL

X3 (E83): Select Vehicle Production 09/03 – On*
 Z4 (E85): Select Vehicle Production 10/02 – On*
 X5 (E53): Select Vehicle Production 10/01 – On*

** Not compatible with optional Navigation (SA609), DSP audio (SA677), 6 Disc CD Changer (SA672) and Sirius Satellite Radio.*

Compatible with X5 In-dash Cassette Radio (SA ZCA) only from Production 10/02 – On.

SUGGESTED INSTALLATION TIME: 0.75 Hours

The instructions below are developed for BMW vehicles and are not be compared to any other existing instructions for vehicles other than BMW. No methods other than those specified in this document are to be used for installation in BMW vehicles. Left and right are determined from driver's seat.

Carefully read all instructions and supplements before proceeding with the installation. Reference should be made to TIS for instructions dealing with a stock part of the vehicle but not stated in detail in these instructions.

The instructions were complete and up to date at time of publication; however, changes to the vehicle or installation may have occurred. Please report any problems or changes noted with the installation to BMW Technical Hotline, along with VIN, date of manufacture and as much detail as possible.

PARTS INFORMATION

Contents of Kit – P/N 65 11 0 392 134

Description	QTY	BMW Part Number
iPod Adapter	1	65 11 0 392 131
iPod I/F cable	1	65 11 0 392 132
Radio I/F cable	1	65 11 0 392 137
Grommet	1	N/A
Owner's Manual	1	65 11 0 392 135

SPECIAL TOOLS

Pin Removal Tool – 61 1 134

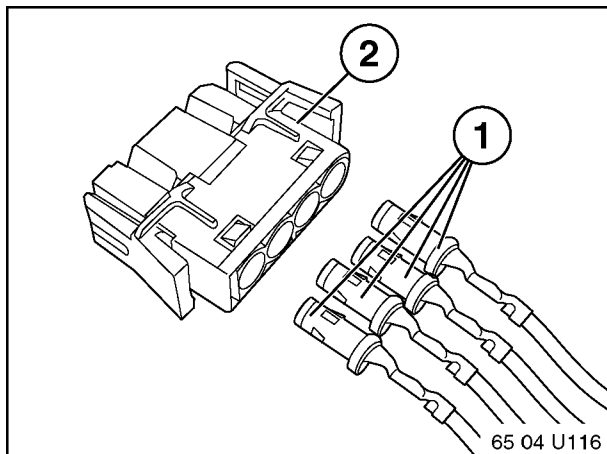
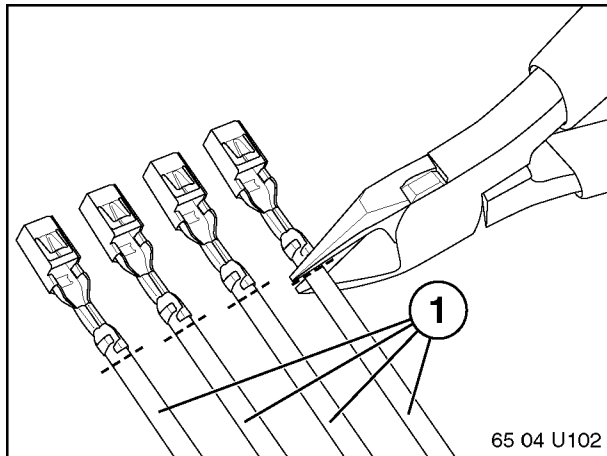
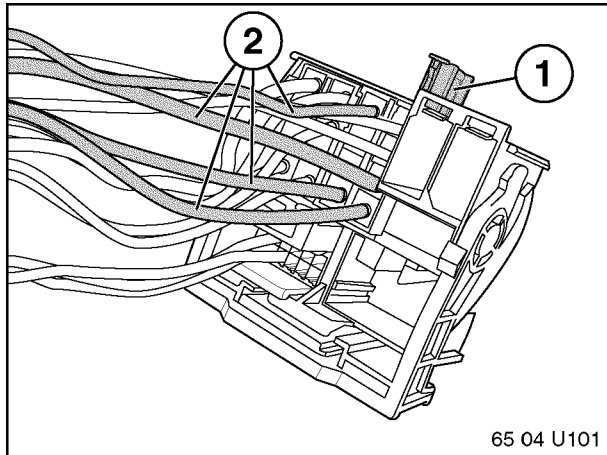
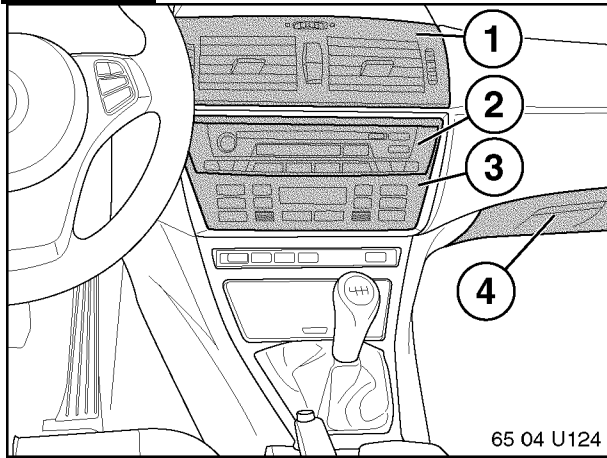
Crimp Tool – 408 449

For X3 - See page 2

For Z4 - See page 6

For X5 - See page 10

★ DO IT RIGHT THE FIRST TIME, ON TIME, EVERY TIME ★ ★

Procedure:**X3**

1. Disconnect vehicle battery.
2. Remove the following components using procedures available through TIS:
 - Center vent (1)
 - Radio (2)
 - Climate Control (3)
 - Glove box (4)
3. Remove the blue lock (1) from radio harness by releasing tab and sliding upwards, then remove following terminals (2) using AMP terminal removal tool (p/n 611134):

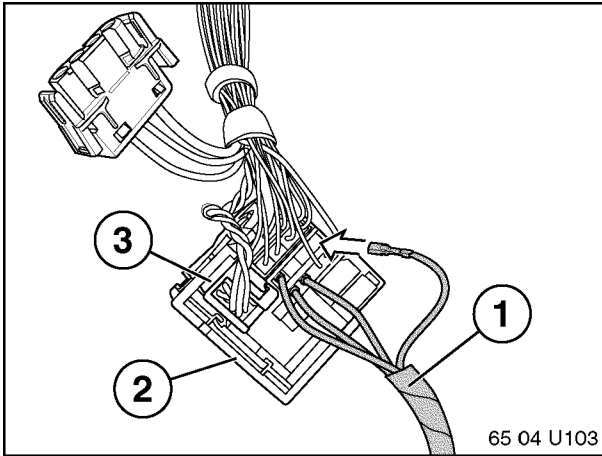
Pin #	Color	Description
9	White/red	I-Bus
12	Brown	Ground
15	Red/green	KL 30
16	Violet/white	KL-R

Note: Wire colors may vary depending on vehicle production changes.

4. Cut original terminals off of 4 wires (1) removed from locations 9, 12, 15 & 16. Cut wire as close as possible to existing terminal to maintain wire length.
5. Strip 1/8" of wire shielding from 4 wires.
6. Using terminal crimping tool (BMW p/n 408 449 or Snap-on PWC47) crimp new female bullet connectors included in kit onto each of the wires from previous step.
7. Insert pins (1) removed from radio connector into 4-pin connector (2) as follows:

Color	Location	Description
Violet/white	1	KL-R
Red/green	2	KL 30
White/red	3	I-Bus
Brown	4	Ground

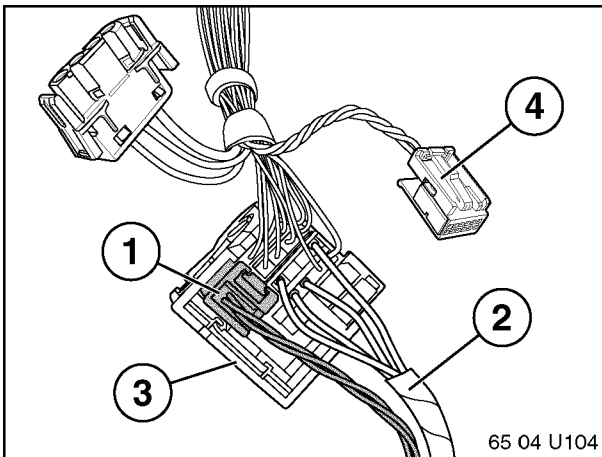
Note: Wire colors may vary depending on vehicle production changes.



8. Insert 4 rectangular pins from iPod harness (1) into radio harness (2) as follows:

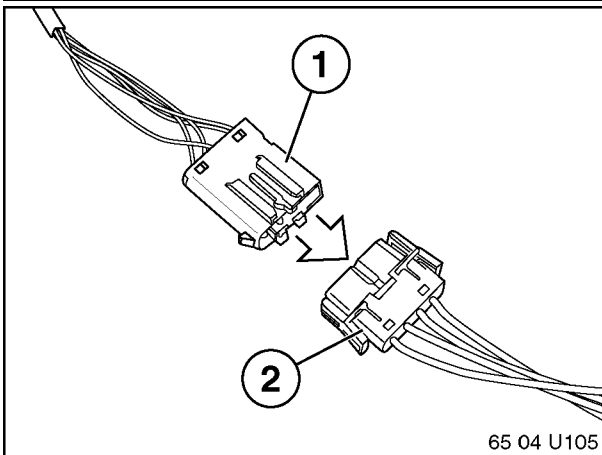
Color	Location	Description
White/gray	9	I-Bus
Brown	12	Ground
Violet/white	16	KL-R
Red/green	15	KL-30

9. Remove white 12-pin connector (3) from lower section of radio connector.

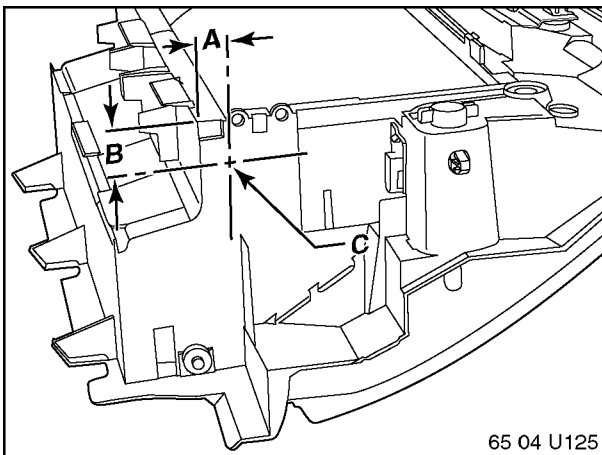


10. Insert white 12-pin connector (1) from iPod harness (2) into lower left section of radio connector (3).

11. Tie other white 12-pin connector (4) back to harness.

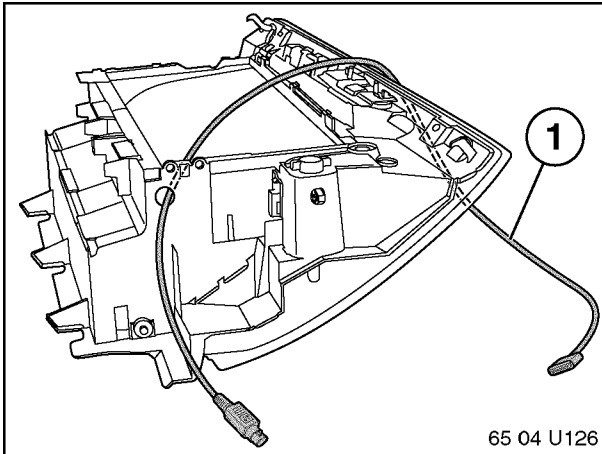


12. Connect 4-pin connectors (1 & 2)

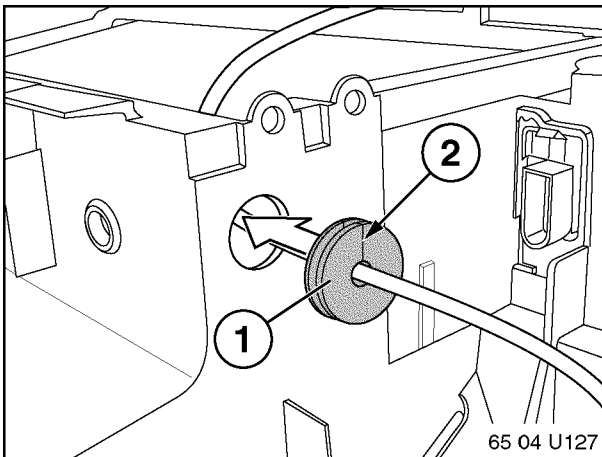


13. Locate and drill 5/8" (16mm) hole in glovebox.

A = 5/8" (16mm)
B = 7/8" (22mm)
C = 5/8" (16mm) Ø diameter

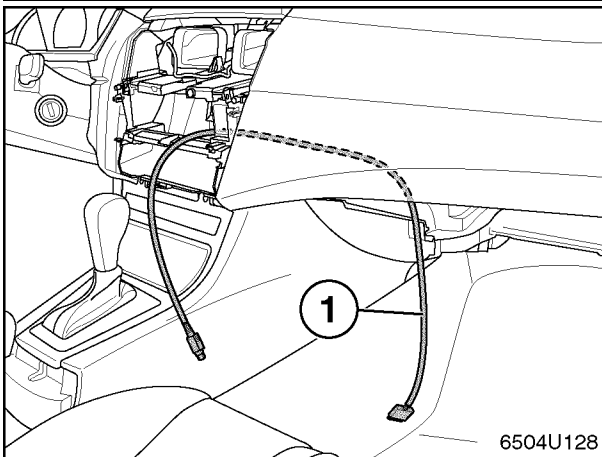


14. Insert iPod cable through hole in glovebox as indicated.



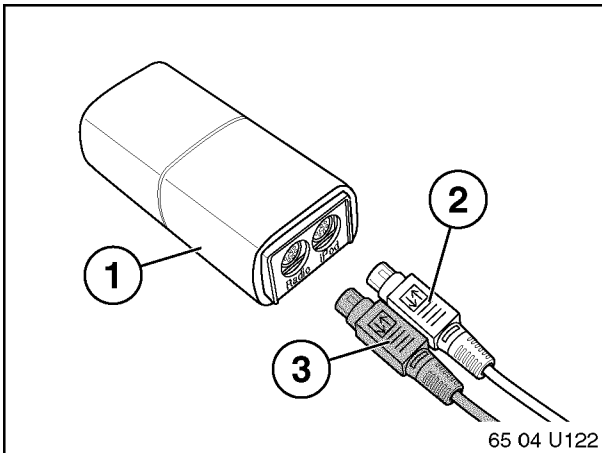
15. Split grommet (1) as indicated (2) and insert grommet through hole in glovebox wall.

16. Secure grommet to glovebox with weatherstrip adhesive from the outside of the glovebox.



17. Route iPod cable through center console from radio location to glovebox location.

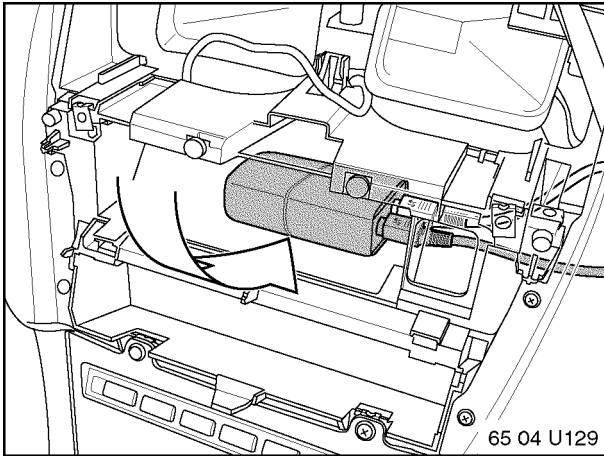
18. Route cable into glovebox alongside fuse panel. Reinstall glovebox.



Caution: Check for bent pins on adapter cables before attaching to iPod adapter. If pins are damaged carefully bend them back into position with a small screwdriver.

19. Slide iPod adaptor fully into foam padding tube (1).

20. Connect white iPod adapter cable (2) and black radio adapter cable (3) to iPod adapter, making sure to connect cables in their proper location.



21. Mount iPod adapter as indicated below radio. Secure with cable ties if possible.

22. Re-install all components removed for installation procedure.

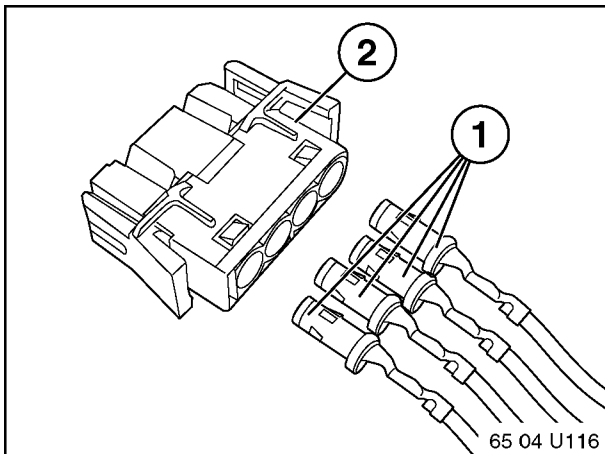
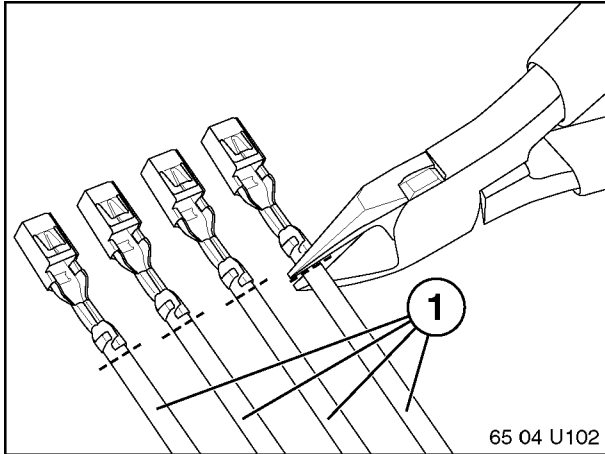
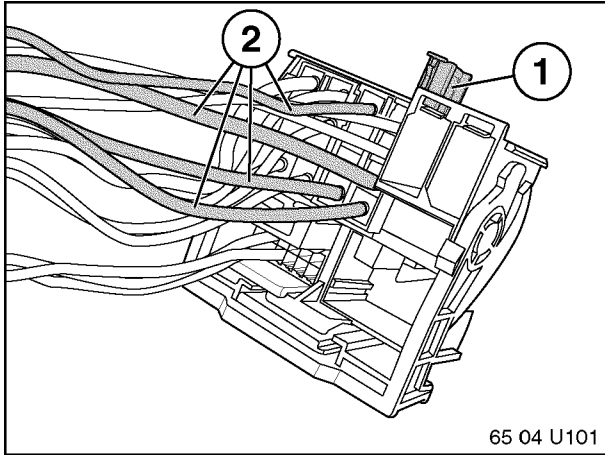
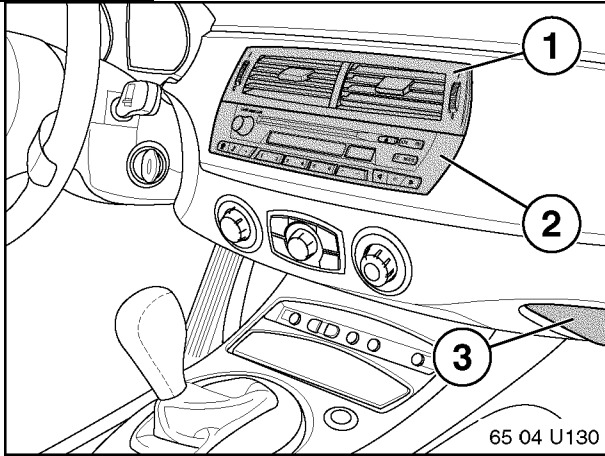
VEHICLE CODING

There is no vehicle coding required for this installation.

TROUBLESHOOTING

- iPod mode is not selectable from the radio until iPod is connected. (refer to iPod Interface Owner's Manual)
- This iPod Interface is compatible with the following software versions:
 - Version 2.2 for iPod
 - Version 1.1 for iPod mini

If the customer's iPod or iPod mini has older versions of software, please advise them to upgrade the software before connecting them to the Interface in their BMW vehicles. (refer to iPod Interface Owner's Manual)

Procedure:

1. Remove the following components using instructions available through TIS:

- Center vent (1) (REF #64 22 161)
- Radio (2) (REF #65 11 080)
- Glove box door (3)

2. Remove the blue lock (1) from radio harness by releasing tab and sliding upwards, then remove following terminals (2) using AMP terminal removal tool p/n 611 134:

Pin #	Color	Description
9	White/red	I-Bus
12	Brown	Ground
15	Red/green	KL 30
16	Violet/white	KL-R

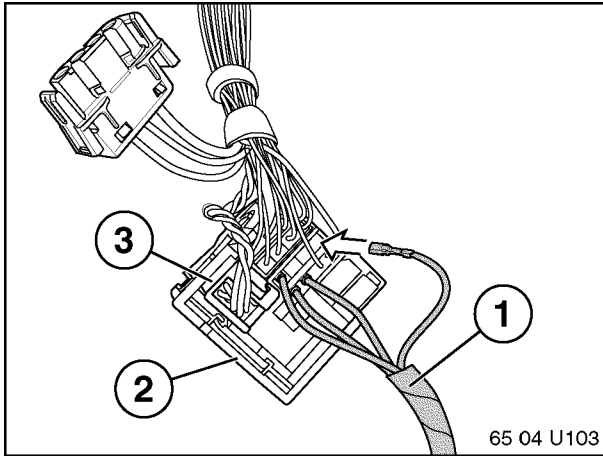
Note: Wire colors may vary depending on vehicle production changes.

3. Cut original terminals off of 4 wires (1) removed from locations 9, 12, 15 & 16. Cut wire as close as possible to existing terminal to maintain wire length.
4. Strip 1/8" of wire shielding from 4 wires.
5. Using terminal crimping tool (BMW p/n 408 449 or Snap-on PWC47) crimp new female bullet connectors included in kit onto each of the wires from previous step.

6. Insert pins (1) removed from radio connector into 4-pin connector (2) as follows:

Color	Location	Description
Violet/white	1	KL-R
Red/green	2	KL 30
White/red	3	I-Bus
Brown	4	Ground

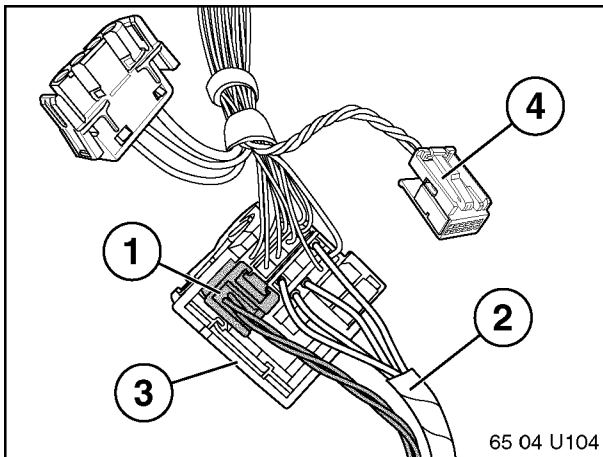
Note: Wire colors may vary depending on vehicle production changes.



7. Insert 4 rectangular pins from iPod harness (1) into radio harness (2) as follows:

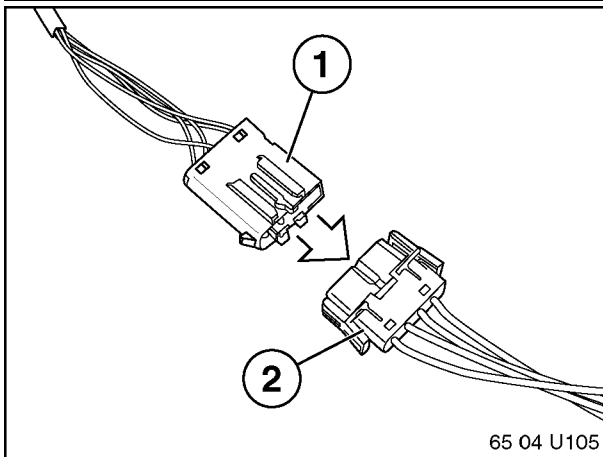
Color	Location	Description
White/gray	9	I-Bus
Brown	12	Ground
Violet/white	16	KL-R
Red/green	15	KL-30

8. Remove white 12-pin connector (3) from lower section of radio connector.

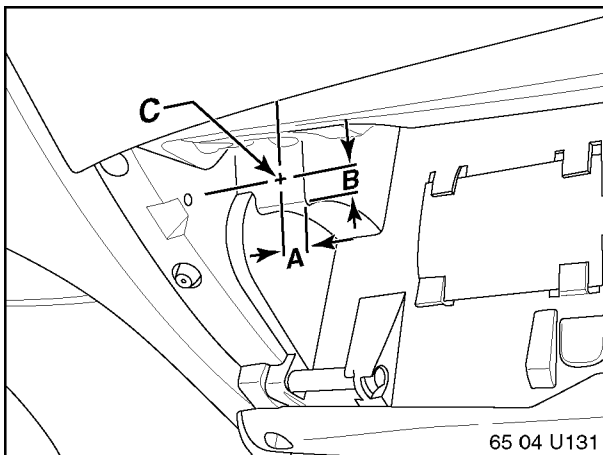


9. Insert white 12-pin connector (1) from iPod harness (2) into lower left section of radio connector (3).

10. Tie other white 12-pin connector (4) back to harness.

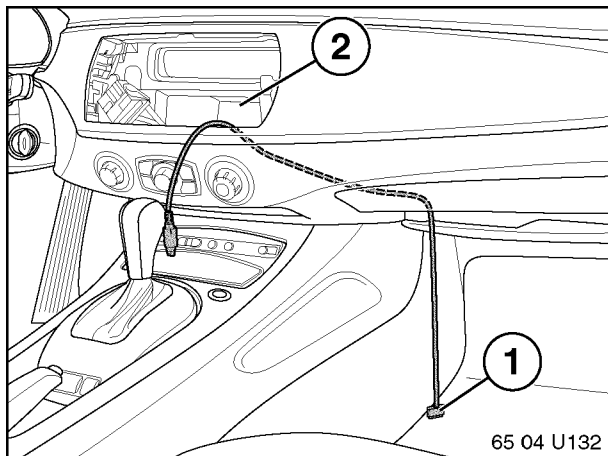


11. Connect 4-pin connectors (1 & 2)

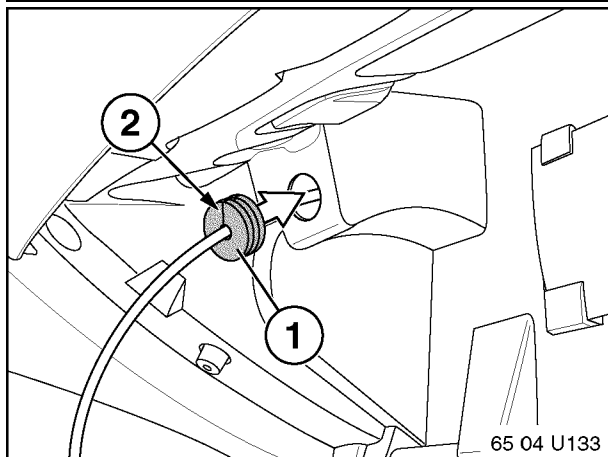


12. Locate and drill 5/8" (16mm) hole in glove box upper right panel.

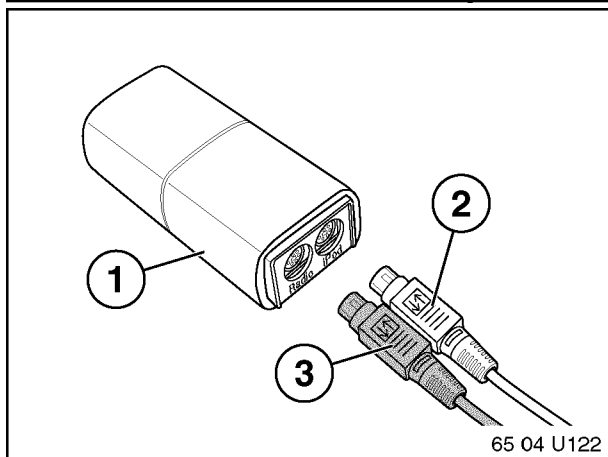
A = 5/8" (16mm)
B = 5/8" (16mm)
C = 5/8" (16mm) Ø diameter



13. Insert iPod cable (1) through hole in glovebox as indicated and route through radio cavity (2). A wire fish will be beneficial for this step.

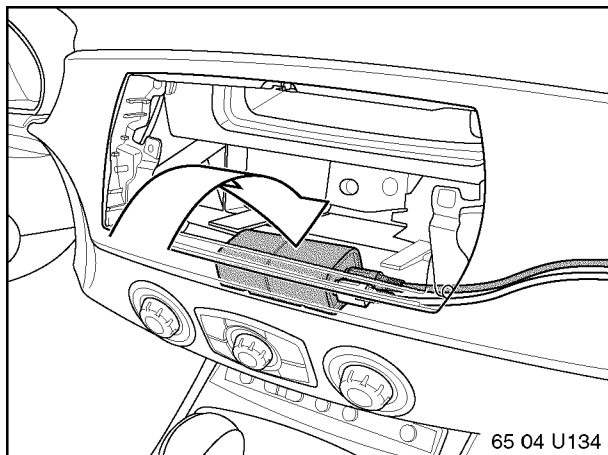


14. Split grommet (1) as indicated (2) and insert grommet through hole in glovebox wall.



Caution: Check for bent pins on adapter cables before attaching to iPod adapter. If pins are damaged carefully bend them back into position with a small screwdriver.

15. Slide iPod adaptor fully into foam padding tube (1).
16. Connect white iPod adapter cable (2) and black radio adapter cable (3) to iPod adapter, making sure to connect cables in their proper location.



17. Mount iPod adapter as indicated below radio. Secure with cable ties if possible.
18. Carefully pull white cable into glovebox to remove excess cable slack.
19. Re-install all components removed for installation procedure.

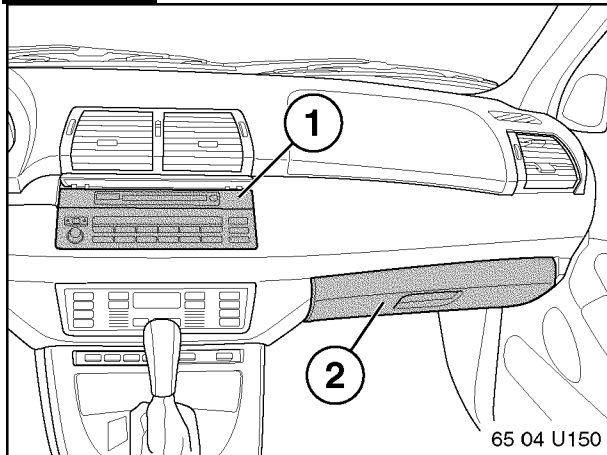
VEHICLE CODING

There is no vehicle coding required for this installation.

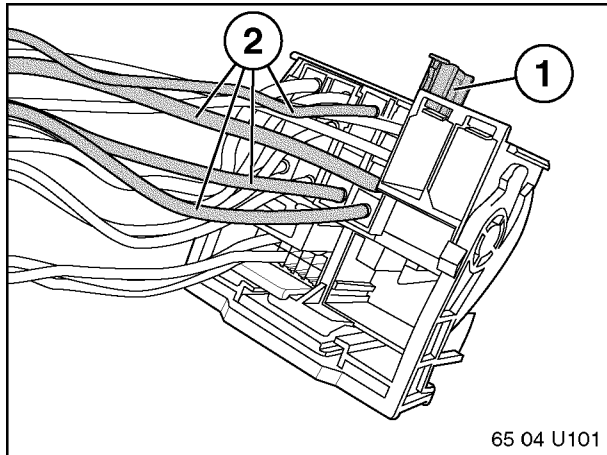
TROUBLESHOOTING

- iPod mode is not selectable from the radio until iPod is connected.
(refer to iPod Interface Owner's Manual)
- This iPod Interface is compatible with the following software versions:
 - Version 2.2 for iPod
 - Version 1.1 for iPod mini

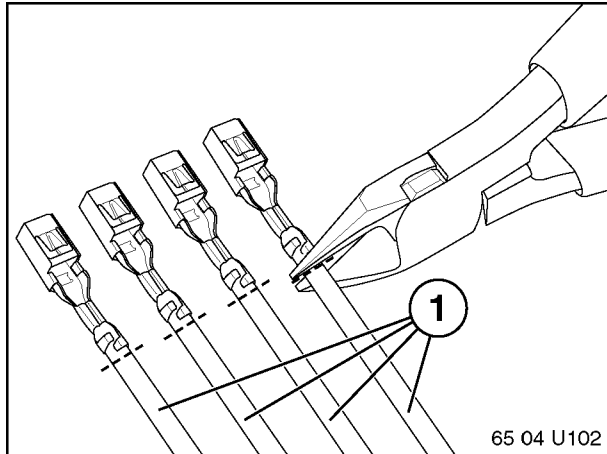
If the customer's iPod or iPod mini has older versions of software, please advise them to upgrade the software before connecting them to the Interface in their BMW vehicles. (refer to iPod Interface Owner's Manual)

Procedure:

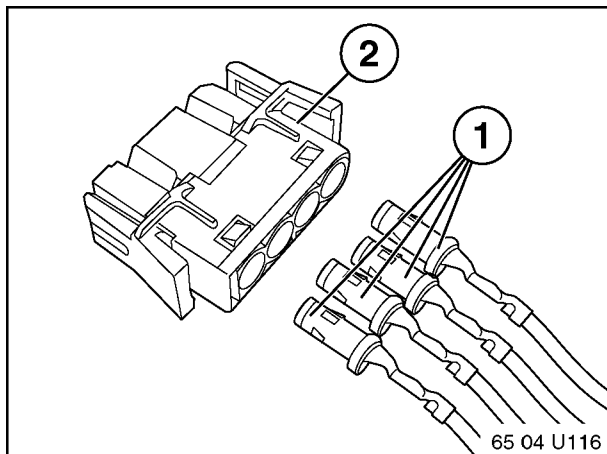
65 04 U150



65 04 U101



65 04 U102



65 04 U116

X5

1. Disconnect vehicle battery.
2. Remove the following components using procedures available through TIS:
 - Radio (1)
 - Glovebox (2)
3. Remove the blue lock (1) from radio harness by releasing tab and sliding upwards, then remove following terminals (2) using AMP terminal removal tool (p/n 611134):

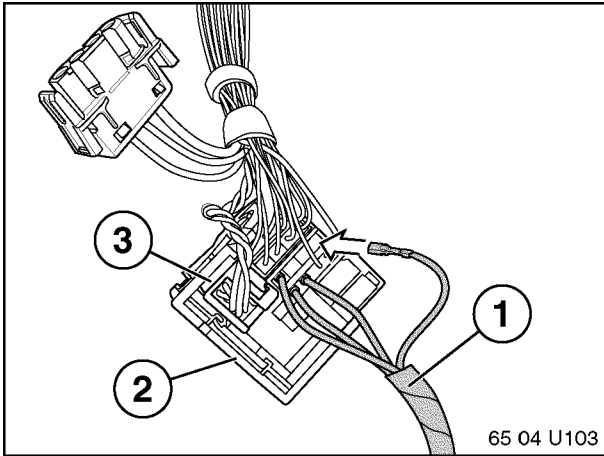
Pin #	Color	Description
9	White/red	I-Bus
12	Brown	Ground
15	Red/green	KL 30
16	Violet/white	KL-R

Note: wire colors may vary depending on vehicle production changes.

4. Cut original terminals off of 4 wires (1) removed from locations 9, 12, 15 & 16. Cut wire as close as possible to existing terminal to maintain wire length.
5. Strip 1/8" of wire shielding from 3 wires.
6. Using terminal crimping tool (BMW p/n 408 449 or Snap-on PWC47) crimp new female bullet connectors included in kit onto each of the wires from previous step.
7. Insert pins (1) removed from radio connector into 4-pin connector (2) as follows:

Color	Location	Description
Violet/white	1	KL-R
Red/green	2	KL 30
White/red	3	I-Bus
Brown	4	Ground

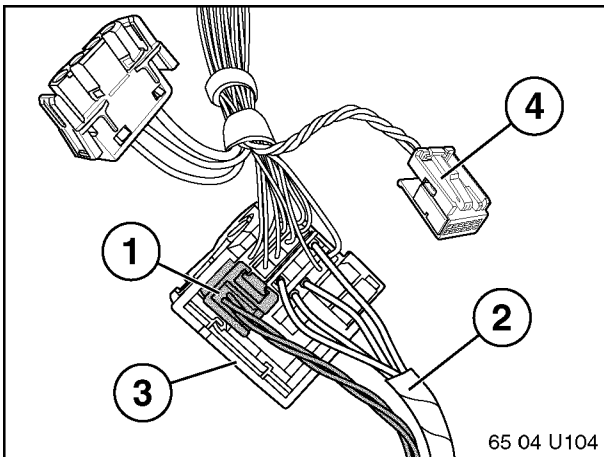
Note: wire colors may vary depending on vehicle production changes.



8. Insert 4 rectangular pins from iPod™ harness (1) into radio harness (2) as follows:

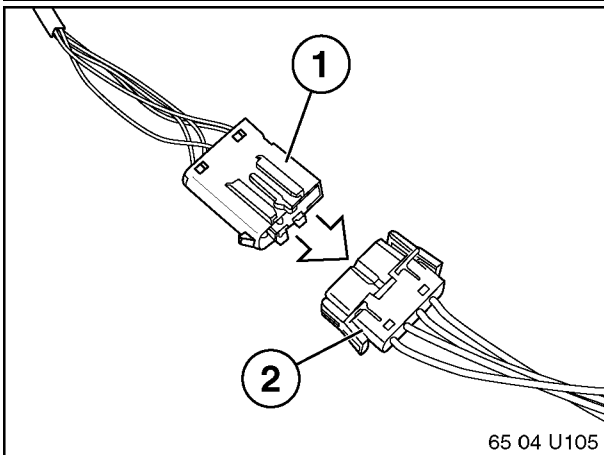
Color	Location	Description
White/gray	9	I-Bus
Brown	12	Ground
Violet/white	16	KL-R
Red/green	15	KL-30

9. Remove white 12-pin connector (3) from lower section of radio connector.

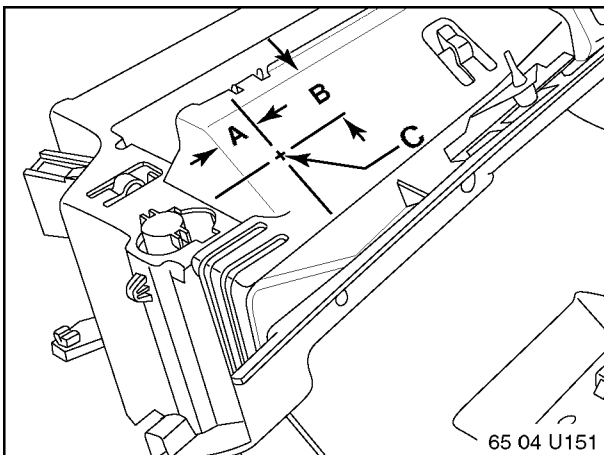


10. Insert white 12-pin connector (1) from iPod harness (2) into lower left section of radio connector (3).

11. Tie other white 12-pin connector (4) back to harness.

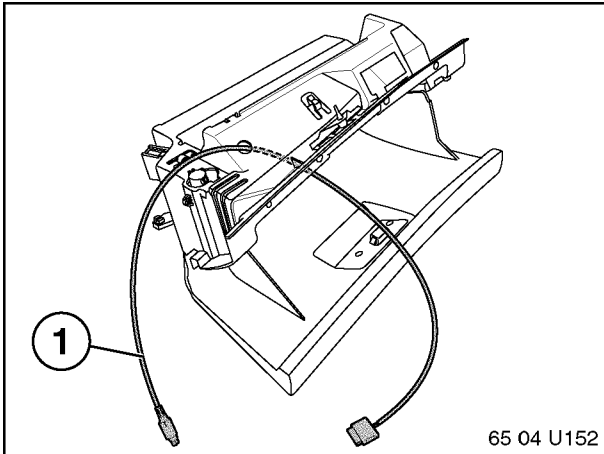


12. Connect 4-pin connectors (1 & 2)



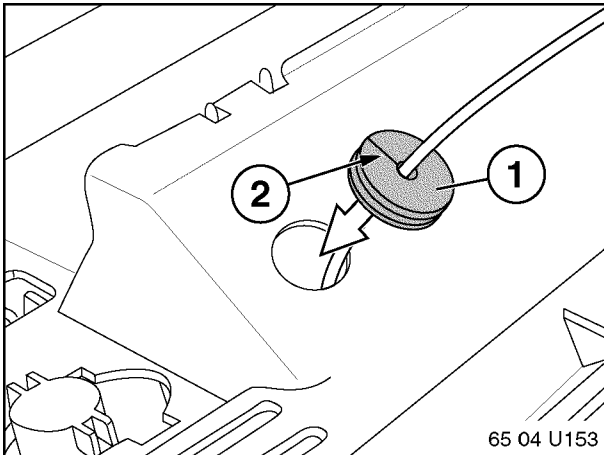
13. Locate and drill 5/8" (16mm) hole in glove box.

A = 7/8" (23mm)
B = 1 3/16" (30mm)
C = 5/8" (16mm) Ø diameter



65 04 U152

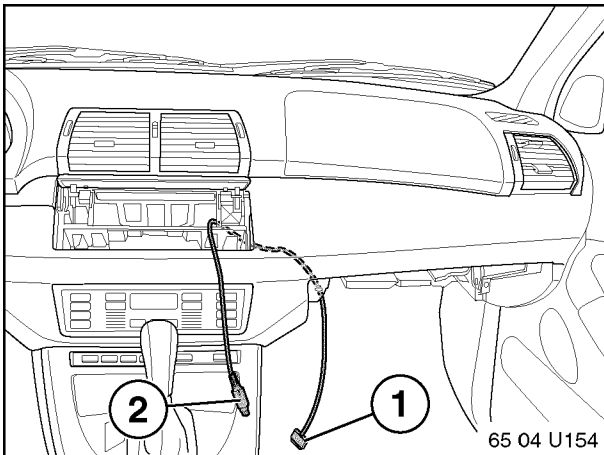
14. Insert iPod cable through hole in glove box as indicated.



65 04 U153

15. Split grommet (1) as indicated (2) and insert grommet through hole in glovebox wall.

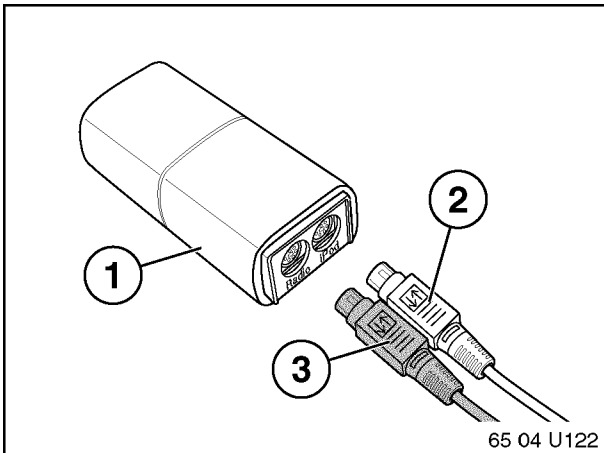
16. Secure grommet to glovebox with weatherstrip adhesive from the outside of the glovebox.



65 04 U154

17. Route iPod cable through center console from radio location to glovebox location.

18. Route cable into glovebox alongside fuse panel. Re-install glovebox.

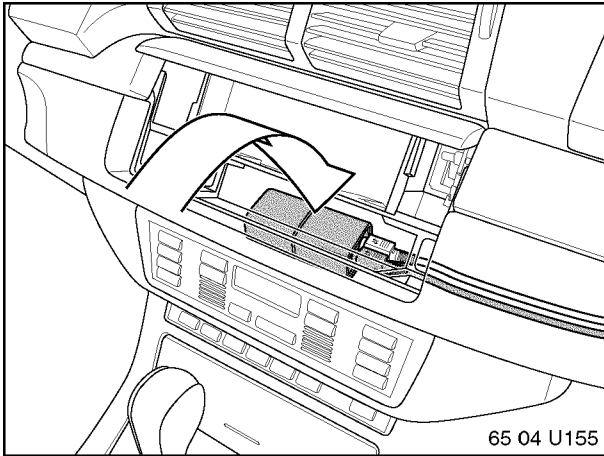


65 04 U122

Caution: Check for bent pins on adapter cables before attaching to iPod adapter. If pins are damaged carefully bend them back into position with a small screwdriver.

19. Slide iPod adaptor fully into foam padding tube (1).

20. Connect white iPod adapter cable (2) and black radio adapter cable (3) to iPod adapter, making sure to connect cables in their proper location.



21. Mount iPod adapter as indicated below radio. Secure with cable ties if possible.

22. Reinstall all components removed for installation procedure.

VEHICLE CODING

There is no vehicle coding required for this installation.

TROUBLESHOOTING

- iPod mode is not selectable from the radio until iPod is connected. (refer to iPod Interface Owner's Manual)
- This iPod Interface is compatible with the following software versions:
 - Version 2.2 for iPod
 - Version 1.1 for iPod mini

If the customer's iPod or iPod mini has older versions of software, please advise them to upgrade the software before connecting them to the Interface in their BMW vehicles. (refer to iPod Interface Owner's Manual)