

Part Number: 00016-00110-01; Beige
 00016-00120-01; Gray
 Accessory Code: ED7

**Kit Contents:**

Item #	Qty.	Component Description
1	1	Monitor Assembly
2	1	Trim Ring Assembly
3	1	Bracket Assembly
4	1	Hardware Bag
5	1	Paper Cutout Template
6	1	Wire Puller

Hardware Bag Contents:

Item #	Qty.	Component Description
1	4	Red T-Taps
2	1	4" X 8" Foam Tape
3	4	Barrel Nuts
4	8	1/4" Phillips Head Screw
5	2	11" Wire Ties
6	10	6" Wire Ties
7	5	M6 10mm Bolt
8	2	Wire Tie Bases

Additional Items Required For Installation:

Item #	Qty.	Component Description
1		Electrical Tape

Conflicts:

--

Recommended Tools:**Safety Tools**

Seat and Floor Covers	Blankets
-----------------------	----------

Installation Tools

Pliers	Nylon Removal Tool (NRT)
#2 Phillips Screwdriver	#1 Phillips Screwdriver
Torque Wrench (36 in. / lbs.)	Wire Cutters
Utility Knife	4mm Allen Driver
10mm Socket/ Ratchet	Pencil
8mm Socket	

Special Tools

None	
------	--

Special Chemicals

None	
------	--

Color Applicability/ Trim Level:

Vehicle Trim Color	Accessory Color	Gray	Beige		
Gray		X			
Sand Beige			X		

General Applicability:

All Crewmax MR, Tundra's

Recommended Sequence of Application:

Item #	Accessory	
1		
2		
3		

LEGEND:

STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.



OPERATOR SAFETY: Use caution to avoid risk of injury.



CRITICAL PROCESS: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation.



TOOLS & EQUIPMENT: This calls out the specific tools and equipment required for this process.



SAFETY TORQUE: This mark indicates that torque is related to safety.



REVISION MARK: This mark highlights a change in installation with respect to previous issue.

SPECIAL NOTE:

After TMS and Safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances the suggested sequence is written for one associate to install and in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation in any order to make the installation efficient as possible while maintaining consistent quality.

A. Pre-installation Precaution

1. Use Seat and Floor Protectors to avoid damage to surfaces.



2. If the vehicle is equipped with an Anti-theft radio, the radio code must be written down prior to disconnecting the battery cable. The code must be re-entered when the negative battery cable is reinstalled. Disconnecting the battery may cause certain vehicle settings to be lost. Manufacture's recommendations for the battery removal should be followed. Disconnecting the battery is recommended.

B. Battery disconnect


1. Remove the NEGATIVE (-) battery terminal using a 10mm socket before starting any disassembly. (Figure B1) 

Figure
B1



C. Vehicle Disassembly


1. Using an NRT (Nylon Removal Tool) pry up rear of center console trim up approximately 1" to 2". (Figure C1) 
2. Slide center console trim back toward rear of vehicle until it stops. (Figure C2)
3. Lift at front of center console trim and remove from vehicle. (Figure C3)
4. Partially remove power point panel from dash by pulling straight back at bottom of panel. (Figure C4)
5. Disconnect electrical connector from rear of power point panel and remove from vehicle. (Figure C5)

Figure C1



Figure C2



Figure C3



Figure C4



Figure C5





6. Partially remove inboard side of IP to allow removal of climate controls and radio. (USE CAUTION NOT TO DAMAGE PANELS)

(Figure C6)

7. Partially remove climate control panel by pulling towards rear of vehicle and sliding out from behind IP. Be careful not to scratch the fan speed control knob when crossing the IP.

(Figure C7)

8. Disconnect all electrical connectors from rear of climate control panel. (Figure C8)

9. Remove (4) bolts located below radio face using a 10mm socket/ ratchet.

(Figure C9) 

10. Pull radio from dash and disconnect all electrical connectors from rear of radio.

(Figure C10)

Figure C6



Figure C7



Figure C8

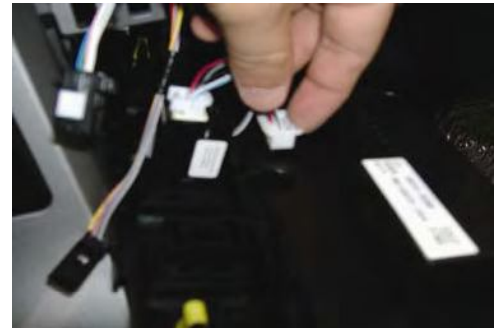



Figure C9



Figure C10



11. Pry front edge of dome lamp lens using a

NRT. (Figure C11) 

12. Pull down dome lamp to expose electrical connector and disconnect. (Figure C12)

13. Use a NRT to pry passenger grab handle

trip cap. (Figure C13) 

14. Remove grab handle by pulling away from headliner. (Figure C14)

15. Compress both metal clips by hand to remove. (Figure C15)

Figure
C11



Figure
C12



Figure
C13




Figure
C14




Figure
C15




16. Using a NRT pry open passenger side A-pillar bolt covers. (Figure C16) 

17. Remove (2) bolts retaining A-pillar cover with a 10mm socket/ratchet.

(Figure C17) 

18. Remove A-pillar cover and handle together by pulling inward toward the center of the vehicle and lifting up. (Figure C18)

D. Headliner preparation

1. Align cutout template with dome lamp opening and mark outside of template with a marker. (Figure D1) 

2. Peel back dome lamp harness from headliner to avoid wire damage while cutting headliner. (Figure D2)

Figure C16



Figure C17



Figure C18




Figure D1



Figure D2






3. Carefully cut opening in headliner with a utility knife. (Figure D3) 

E Route wiring




1. Use an 8mm socket/ ratchet to attach the grounding eyelet with the supplied M6 bolt in the passenger side A-pillar (DO NOT USE THE AIRBAG SUPPORT BOLT). (Figure E1) 



2. By hand carefully pull down on the headliner around the moon roof opening to release the hook and loop fasteners. (Figure E2)



3. Guide wire puller above headliner starting at passenger A-pillar, route towards moon roof opening avoiding side curtain airbag and moon roof track. (Figure E3) 

4. Attach 12' harness to wire puller end at passenger side A-pillar. (Attach end of harness with snaps on the side of the connector).

5. Pull 12' cable from A-pillar opening to moon roof opening.


(Figure E5) 

Figure D3



Figure E1



Figure E2



Figure E3



Figure E5




6. By hand transfer 12' harness from moon roof opening to monitor cutout opening. (Figure E6)
7. Make sure 12' harness is routed in the channel of factory cross member, leaving 12" in the front left corner. (Figure E7)
8. Route wire puller from passenger side A-pillar down to opening above kick panel. (Figure E8) 
9. Attach 12' cable to wire puller and pull down into kick panel area. (Figure E9)
10. Route cable toward center of vehicle below glove box using (2) 6" wire ties to secure cable along with factory wire harness near HVAC duct. (Figure E10)

Figure E6



Figure E7



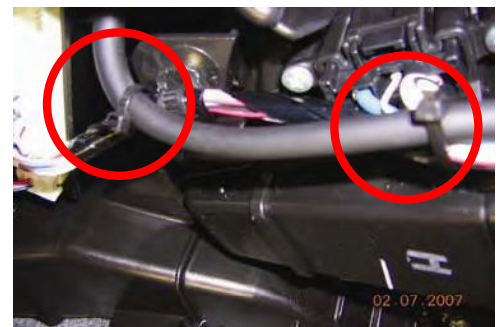
Figure E8




Figure E9



Figure E10



11. Feed wire puller from radio opening down to right of center hump close to the firewall.

(Figure E11) 


12. Attach cable to wire puller at floor board and pull up through to radio opening.

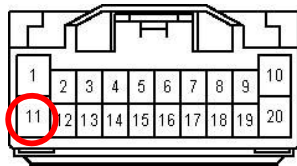
(Figure E12)

F. Connect wiring at radio

1A. Separate Type Amplifier

Attach a red T-tap with pliers to the gray wire of the 20 pin radio connector K18 or K4, Pin # 11.

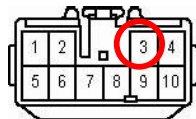
(Figure F1) 



K18 or K4, Pin # 11

1B. Built In Amplifier

Attach a red T-tap with pliers to gray wire of the 10 pin radio connector K1 Pin # 3.



K1- Pin # 3

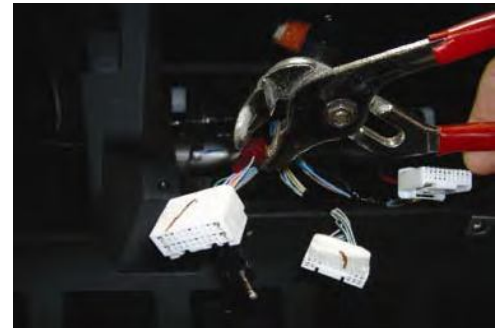
Figure F11



Figure E12



Figure F1



2. Attach the red main power wire from the 12' harness to the T-tap on the gray wire.

(Figure F2)

G. Install FM modulator

1. Wrap foam tape around FM modulator. (Figure G1)
2. Attach male antenna end (vehicle) to female antenna end (modulator). (Figure G2)
3. Attach 12' harness to modulator. (Figure G3)
4. Route (2) 11" wire ties around large wiring harness at rear of radio cavity and secure FM modulator. (Figure G4)

Figure F2



Figure G1



Figure G2



Figure G3



Figure G4



H. Fix A-pillar wiring

1. Attach (2) wire tie bases to A-pillar with 6" wire ties inserted. (Figure H1)
2. Attach 12' cable to wire tie bases and secure clearly above side curtain areas.

Figure H1

**I. Dome lamp harness**


1. Apply one red T-tap with pliers to each the white/black, pink, and gray dome light wires of the W6 connector. (Figure I1) 
2. Attach the dome light harness as follows:

Figure I1



Figure I2



DVD d/I	OE Color	U6
Black/Red	Gray	PIN #1
Red/Black	White/ Black	PIN #2
Purple/Brown	Pink	PIN #3




W6 Connector

(Figure I2)

J. Install bracket

1. Route 12' harness through opening in center of monitor bracket.
2. Line up holes in bracket with holes in the factory beam and secure with (4) M6 bolts using an 8mm socket/ratchet.

(Figure J2) 

K. Install monitor



1. Trim hole in trim ring fabric 1" inside inner opening in trim ring with a utility knife.

(Figure K1) 

2. Attach trim ring to monitor with (8) 1/4" screws using a #1 Phillips head screwdriver.

(Figure K2) 


3. Open monitor screen.
4. Connect cables from headliner opening to the backside of the overhead unit. (Figure K4)
5. Install monitor with (4) barrel nuts using a 4mm hex (Allen) wrench. (Figure K5) 

Figure J2



Figure K1



Figure K2



Figure K4

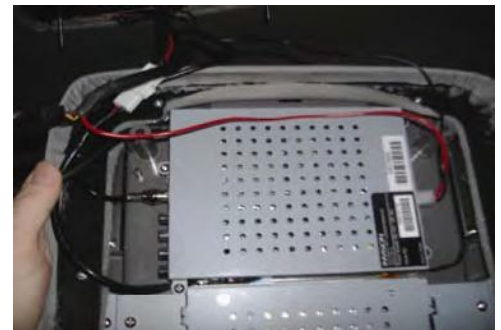


Figure K5




L. Reassemble radio and trim

1. Reassemble radio and trim components by reversing steps B and C

M. Complete installation

1. Install 2 AAA batteries in each remote and headphone headset.

2. Connect battery neg. cable and torque to

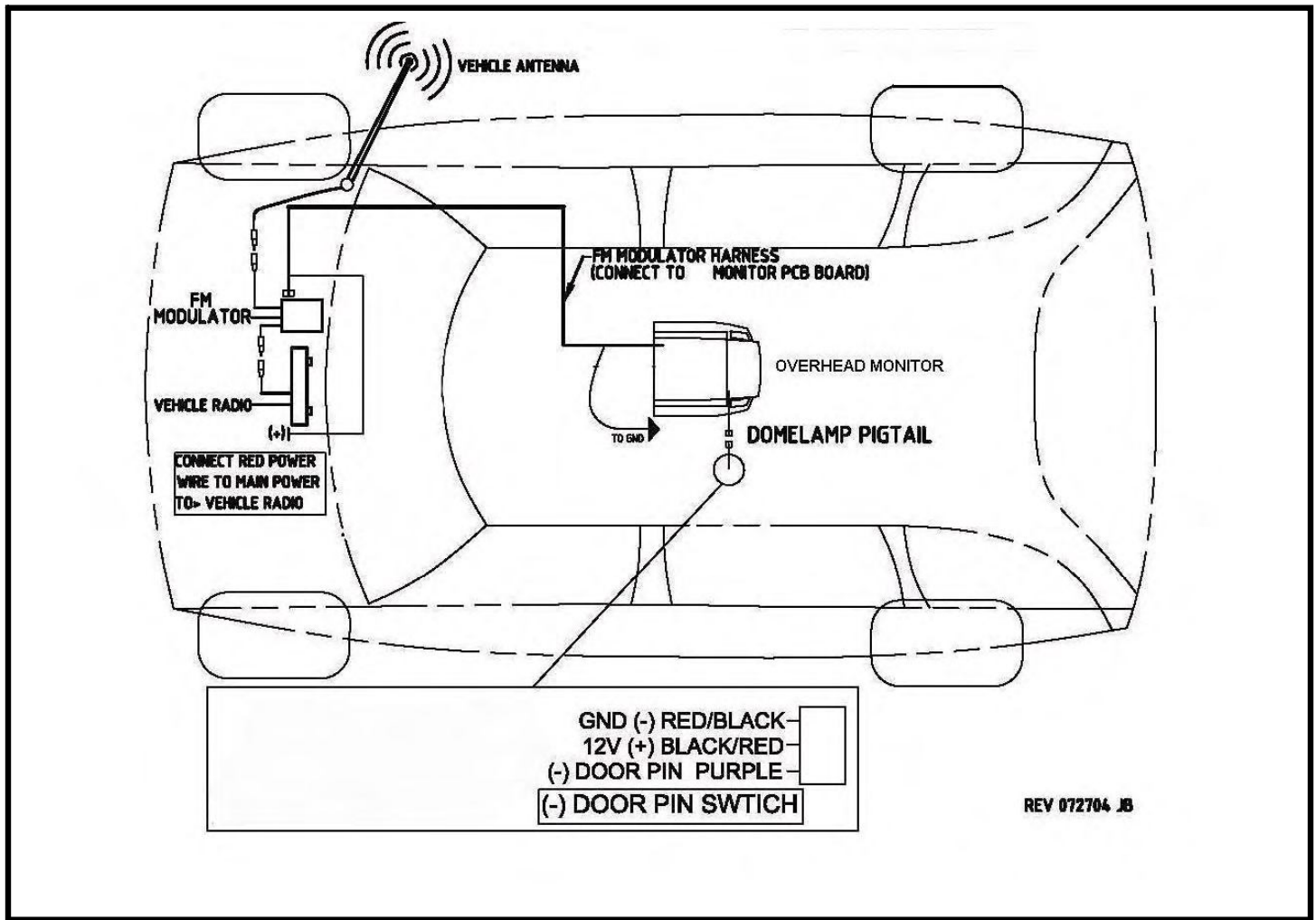
36in. lbs 



3. Check all previously disconnected factory connectors and accessories to ensure they are all connected and operational.

4. After testing, store owner's manual in glove box. Store remotes and headphones in center console.

Wiring Diagram



**Functional Verification:****Check****Look For:****Accessory Function checks:**

Turn vehicle ignition to ON, depress power button on remote control for monitor.

Monitor should power on, start up screen should appear on screen.



Insert DVD into monitor, press enter.

DVD should begin playing.



Depress "sound around" on remote control. Tune vehicle FM radio station to channel displayed on screen.

"Sound around "ON" and FM channel displayed on screen.



Depress "sound around" on remote control. Tune vehicle FM radio station to channel displayed on screen.

"Sound around OFF" and FM channel displayed on screen. Vehicle radio should operate normal



Turn power "ON" wireless headphones (turn Volume dial up slightly on headphones).

Program on G10 monitor should be audible through wireless headphones.



Slide dome lamp switch on monitor to "ON".

Both lights on monitor should turn on.

**Troubleshooting:****Condition:****Check For:**

Unit does not power "ON"

1. Is ignition turned "ON"?
2. Are batteries installed in remote control?
3. Are power connections and ground secured?
4. Check power on the vehicle side of power connection.
5. Check power on the accessory side of power connection.
6. Is vehicle fuse blown? If yes, check to see that there is not a short circuit.
7. Check overhead video unit for continuity to ground on black wire and power at red wire on 4 pin connector (Fig. 1). Use eyelet as ground connection for all voltage checks. If continuity and power exist, the problem lies in the overhead unit.

Sound is not heard through vehicle radio

1. Is "sound around" turned on?
2. Does vehicle radio station match radio station displayed when "sound around" is turned "ON"?
3. Check that FM Modulator is receiving power. Test G10 main harness for continuity at 8 pin connector on each side. All pins should be continuous (Fig. 1). Test for power at PIN #8, ground at PIN #1, and audio voltage of .02 V at PIN #3 and PIN #4. If voltages are not present, the problem lies in the overhead unit.

Sound is not heard through wireless headphones

1. Are batteries installed?
2. Is power "ON" (headphones)?
3. Is volume turned "UP" (on headphones)?
4. Is anything blocking signal between monitor and headphones?

Vehicle has poor sound

1. Turn off "sound around" on monitor

Interference caused by local radio station

1. Use FM Model Select to choose a different channel.

IR Sensor inoperative

1. Verify that the batteries in the remote are fresh.
2. Verify that the remote sensor eye is not obstructed.
3. Verify that the infrared transmitter is affixed over the sensor eye of the component to be controlled.

No picture

1. Verify the correct video input mode is used.
2. Verify the video cable is plugged into jack securely.

Unit powers up but no audio and/or video

1. Try another disc format (Note: not all DVD formats are compatible with player)