14Scion Display Audio PT546-00140

 $TROUBLESHOOTING\ GUIDE \qquad \qquad {\rm Rev}\ A:\ 5/17/2013$ 

#### **AUDIO MAINUNIT TROUBLESHOOTING**

APPLY TO: <u>PT546-00140</u>

#### HINT:

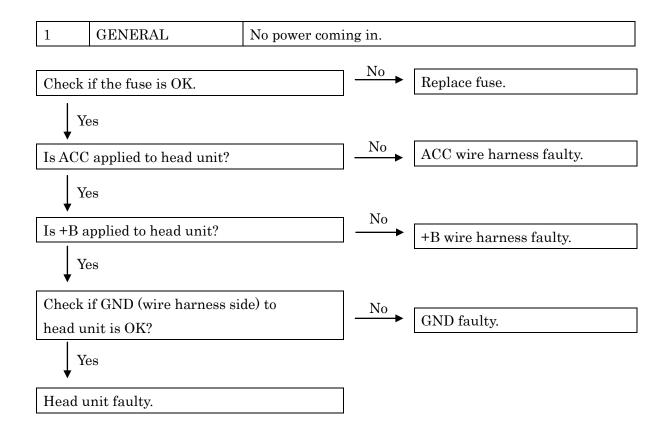
This inspection procedure is a simple troubleshooting that should be carried out on the vehicle during system operation and was prepared on the assumption of system component troubles (except for the wires and connectors, etc.).

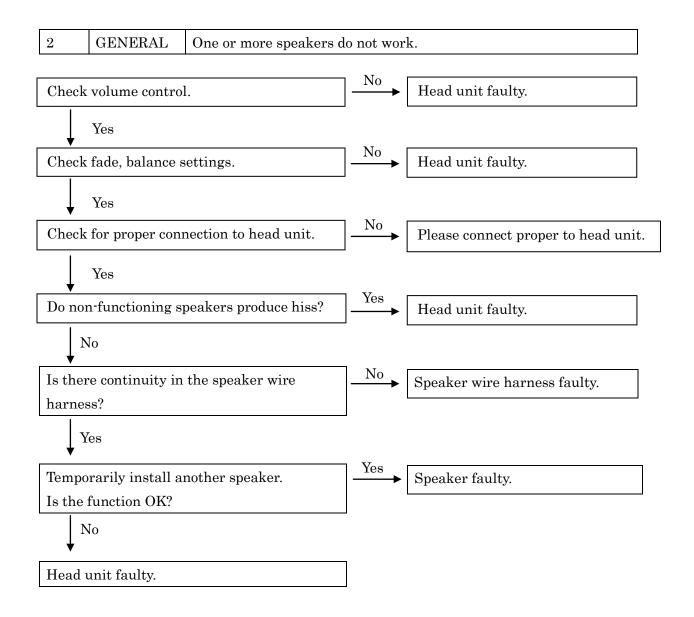
Always inspect the trouble taking the following into consideration.

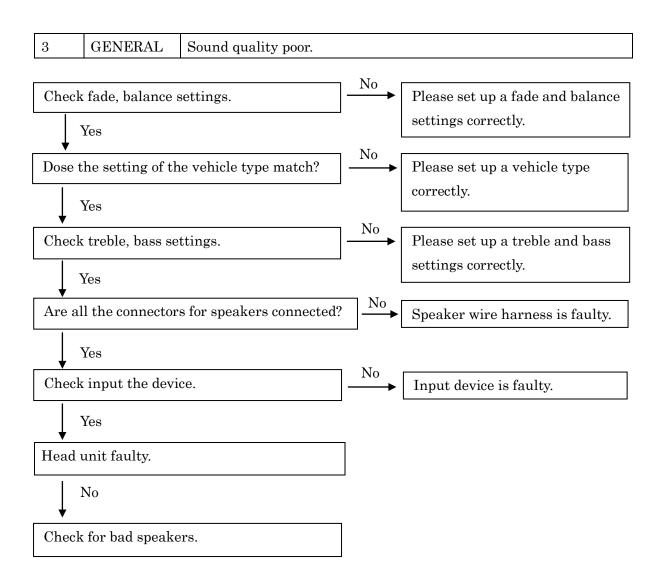
\*Open or short circuit of the wire harness

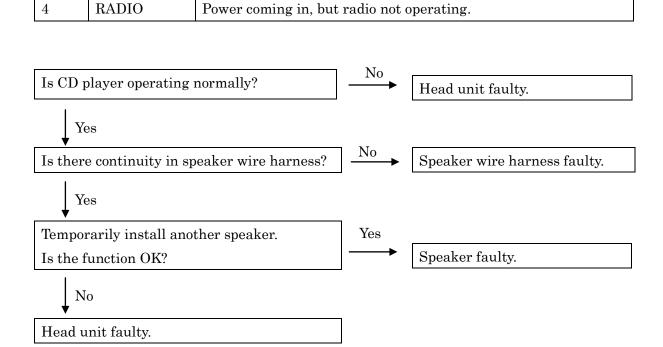
\*Connector or terminal connection fault

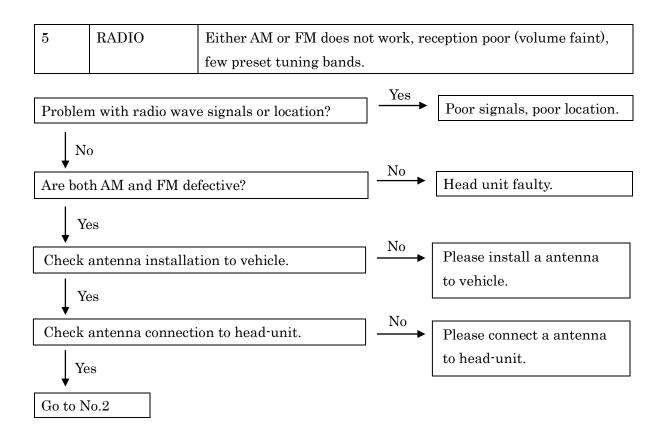
No.		PROBLEM
1	GENERAL	No power coming in.
2		One or more speakers do not work.
3		Sound quality poor.
4	RADIO	Power coming in, but radio not operating.
5		Either AM or FM does not work.
5		Reception poor (volume faint).
5		Few preset tuning bands.
6		Sound quality poor.
7		Cannot set station select button.
7		Preset memories disappear.
8		Analog reception can receive but, HD radio can not receive.
9		HD reception is poor and sound is mute frequently.
10	CD PLAYER	CD cannot be inserted.
11		Power coming in, but CD player not operating.
12		Sound jumps.
13		Sound quality poor (Volume faint).
14		CD will not eject.
15	NOISE	Noise produced by vibration or shock while driving.
16		Noise produced when engine starts.
17		Noise heard occasionally.
18	AUX	Cannot select AUX mode.
19		Sound quality poor (Volume faint).
20	ASL	ASL ineffective (sound level will not increase).
21	USB	Sound quality poor.
22		USB device connected, but cannot select USB mode.
23	iPod/USB	Head unit can play USB devices, but not iPod.
24	iPod	Head unit can operate iPod, but not charge it.
25	Bluetooth	Bluetooth setup menu is not displayed.
26	MAP Screen	MAP Screen is not displayed.

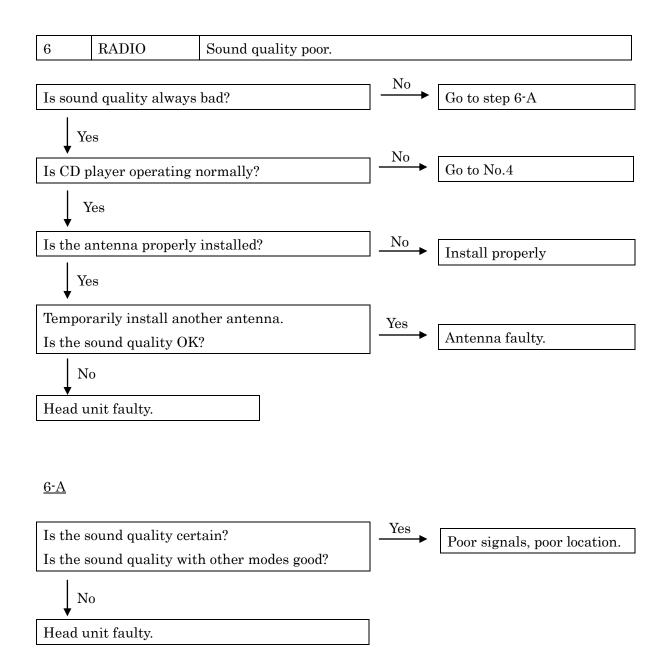


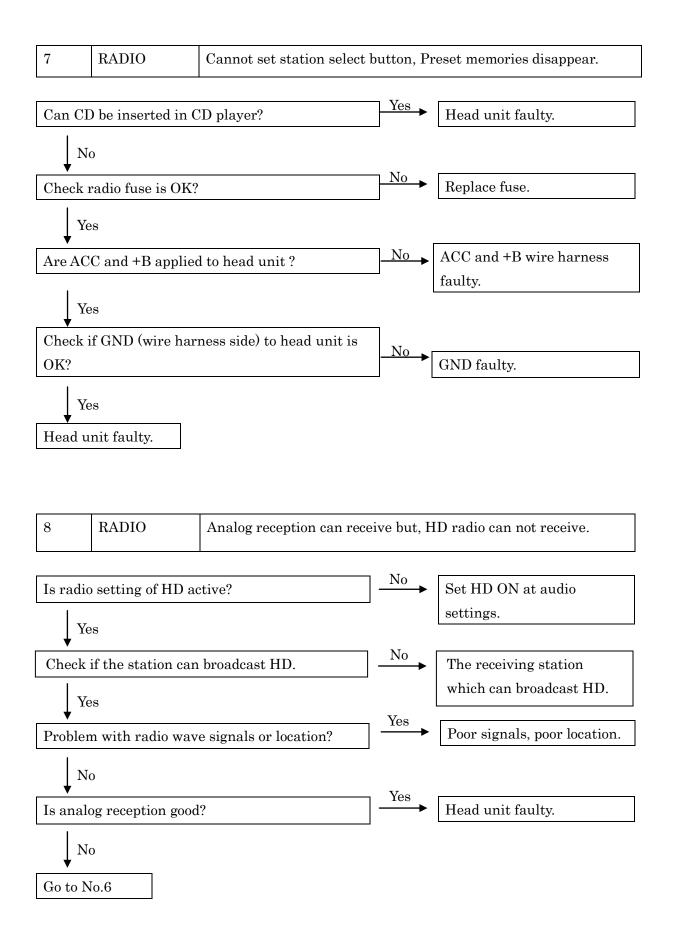


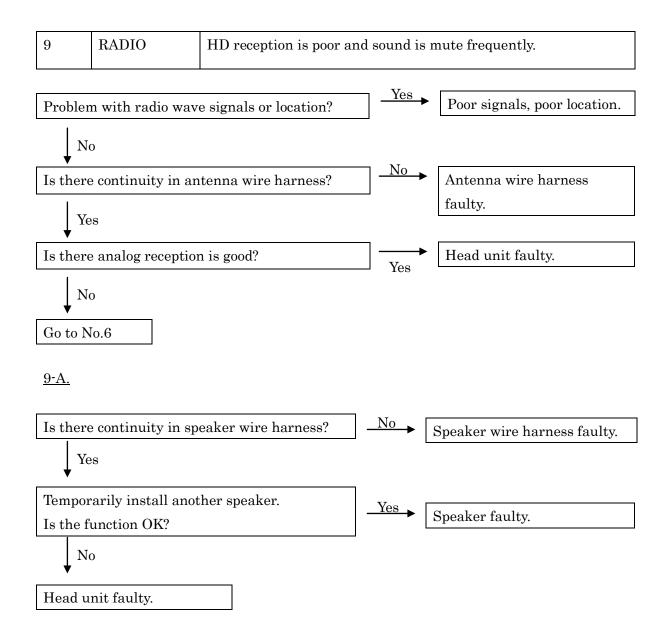


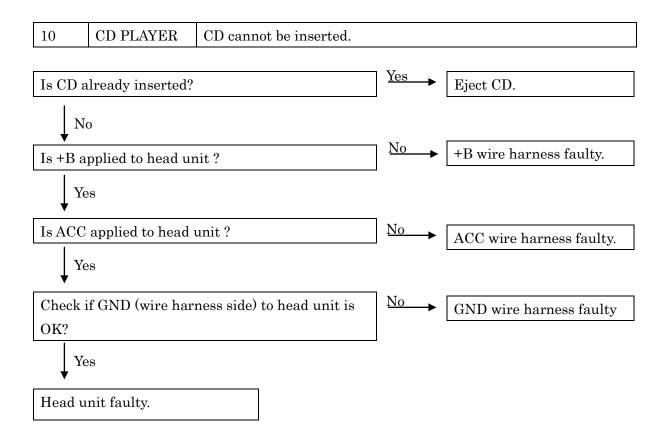


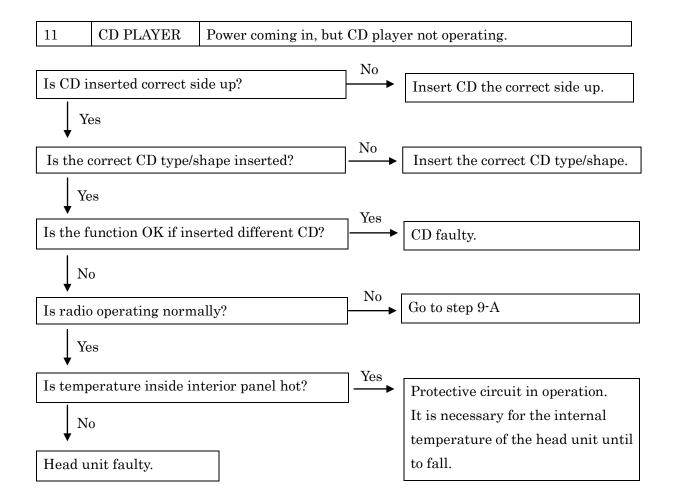


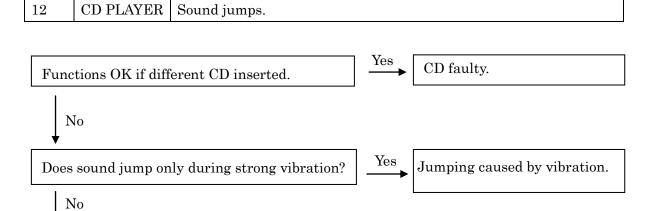




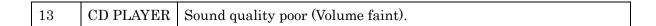


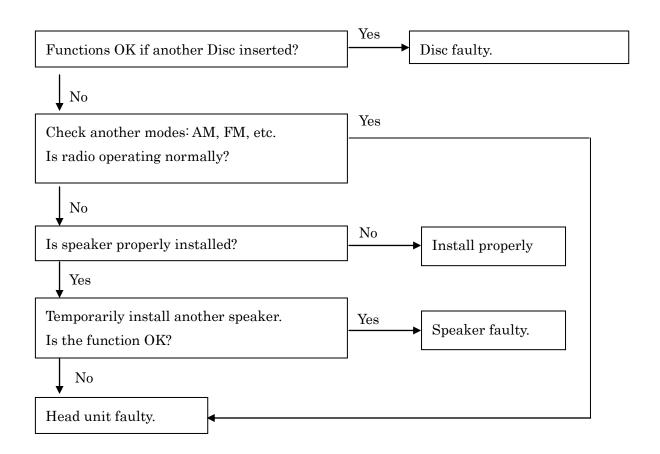


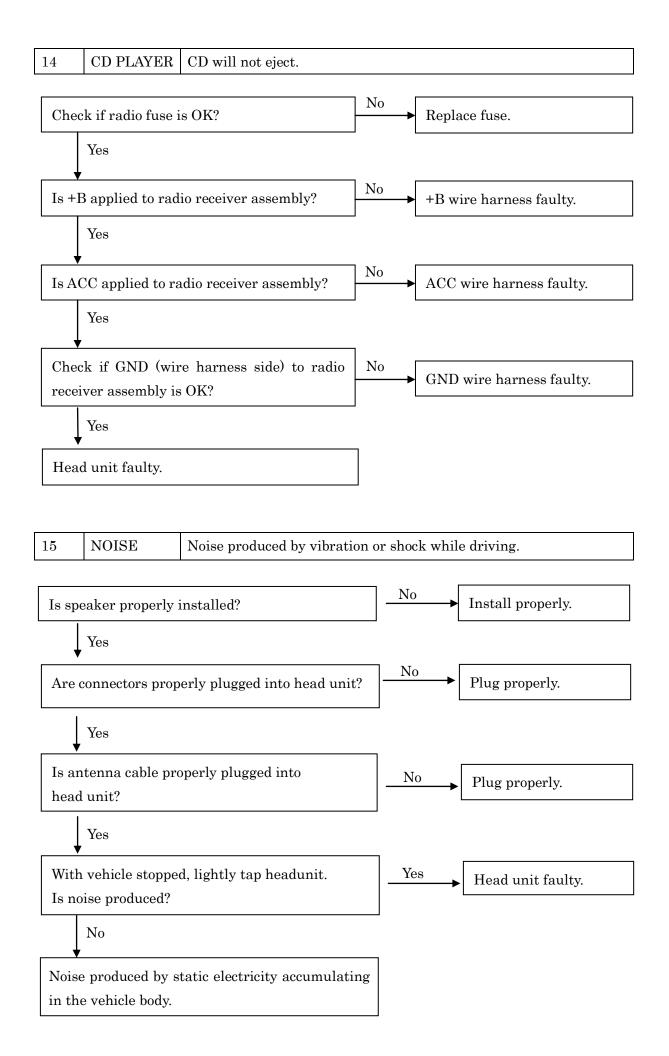


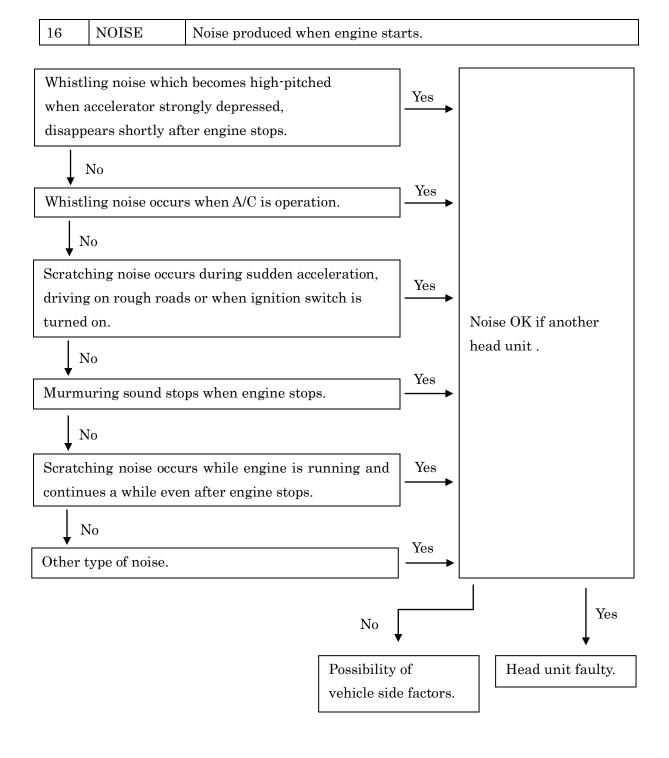


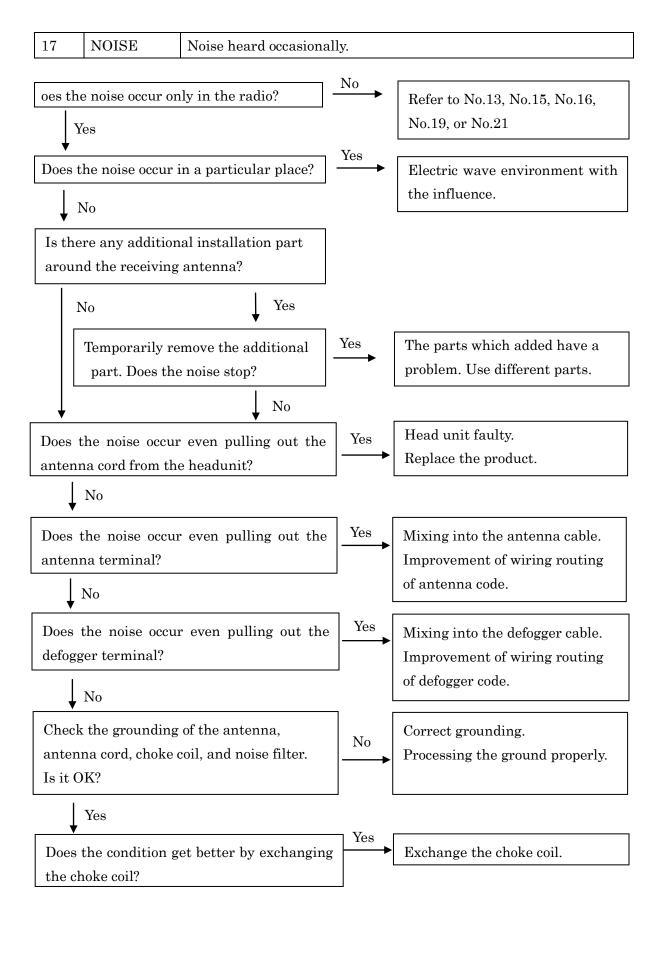
Head unit faulty.













Does the condition get better by replacing the antenna cord?

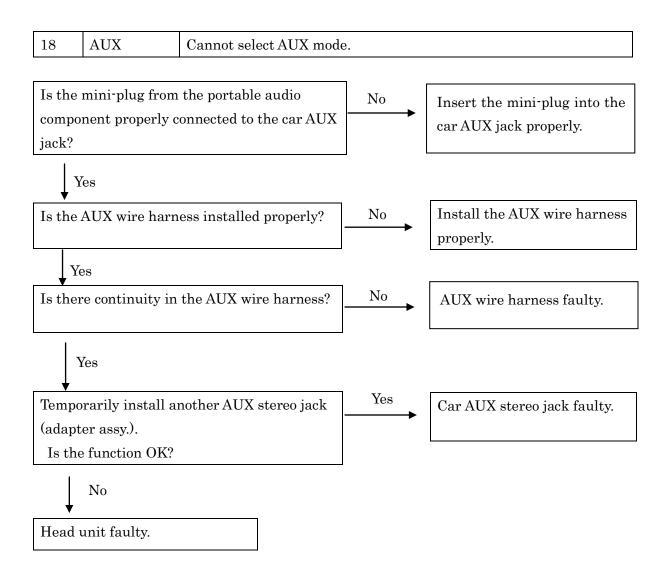
Yes

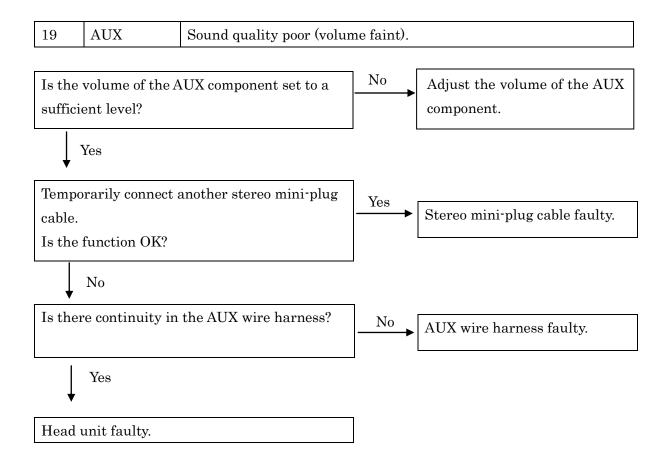
Exchange the antenna cord.

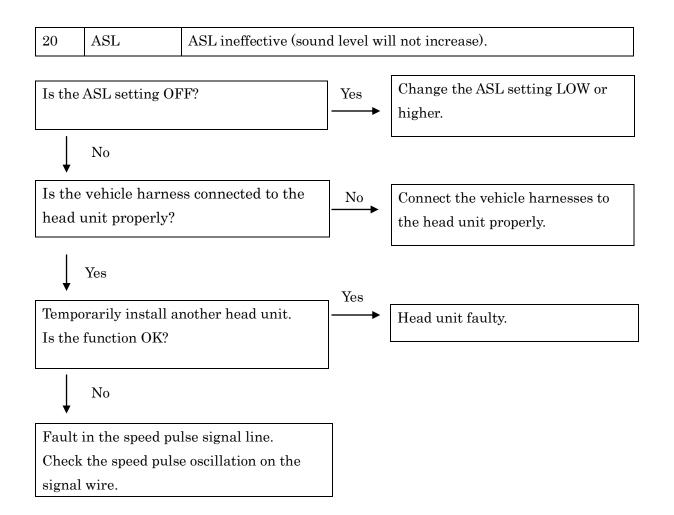
∐ No

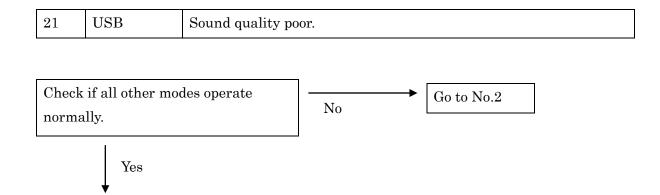
A noise jumps at the antenna cable line via a defogger terminal part from the outbreak source and mixes it.

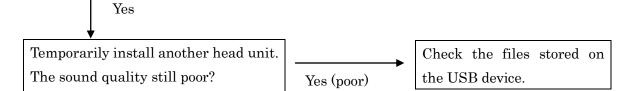
Please identify a noise source from the wiring around the defogger terminal.











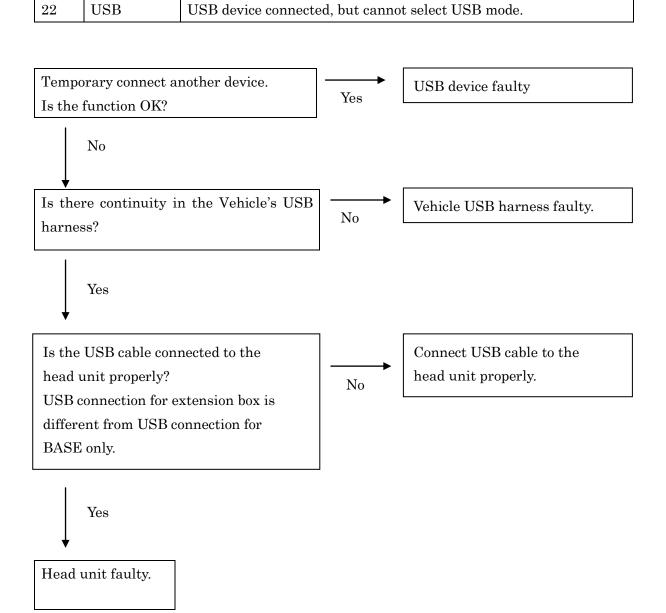
No

Go to No.13  $\,$ 

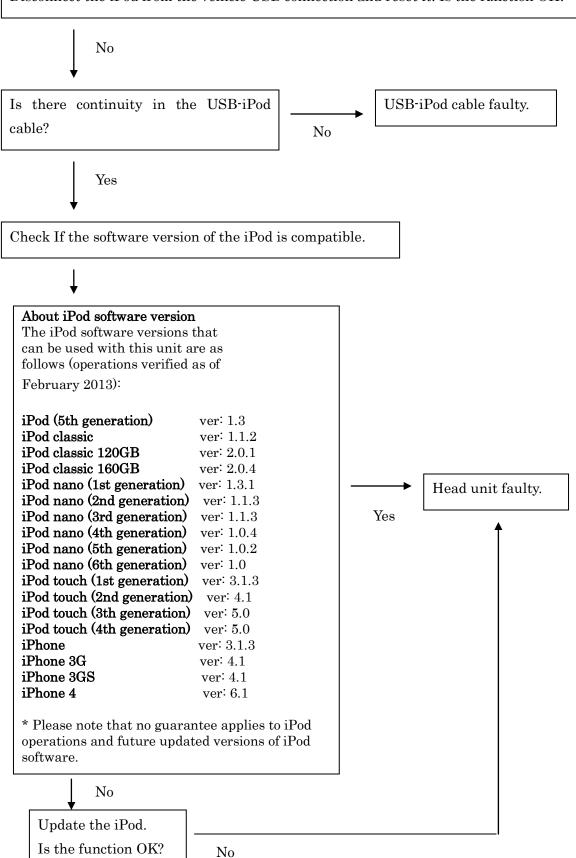
Is the CD sound quality normal?

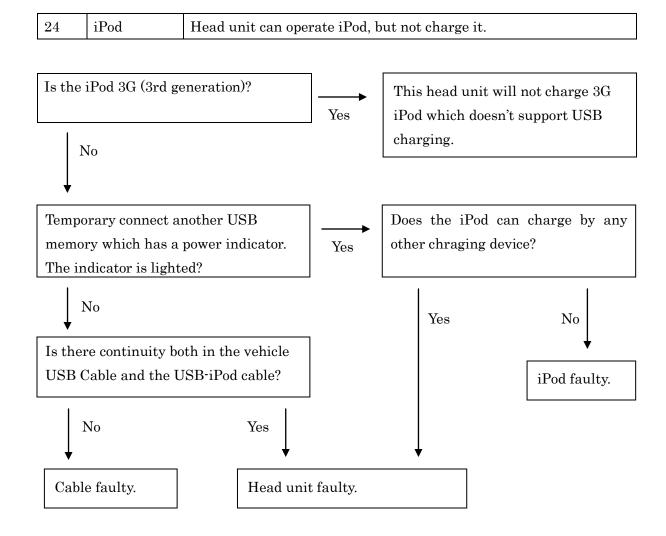
No

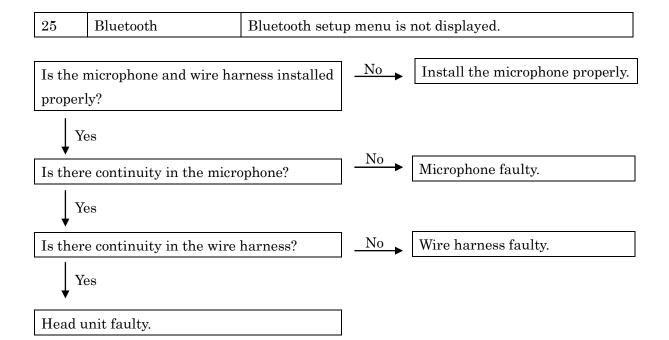
Head unit faulty.

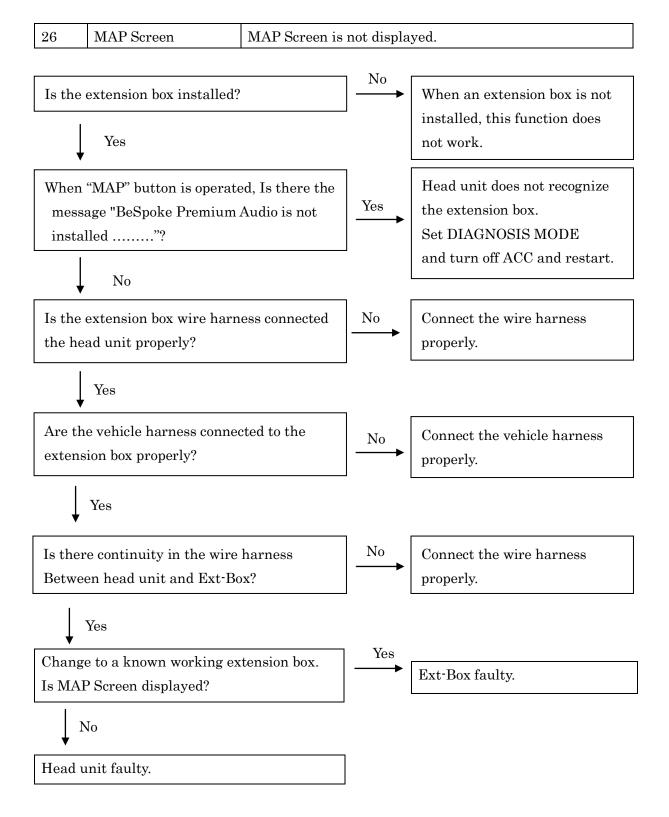


Disconnect the iPod from the vehicle USB connection and reset it. Is the function OK?





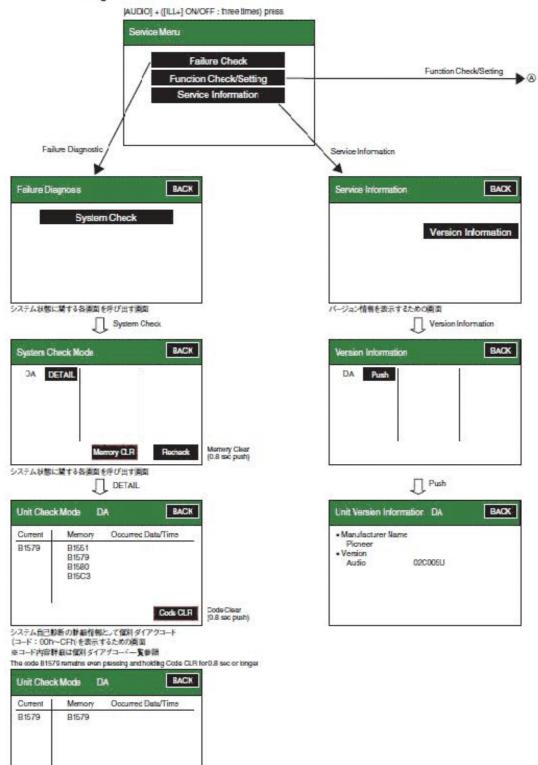




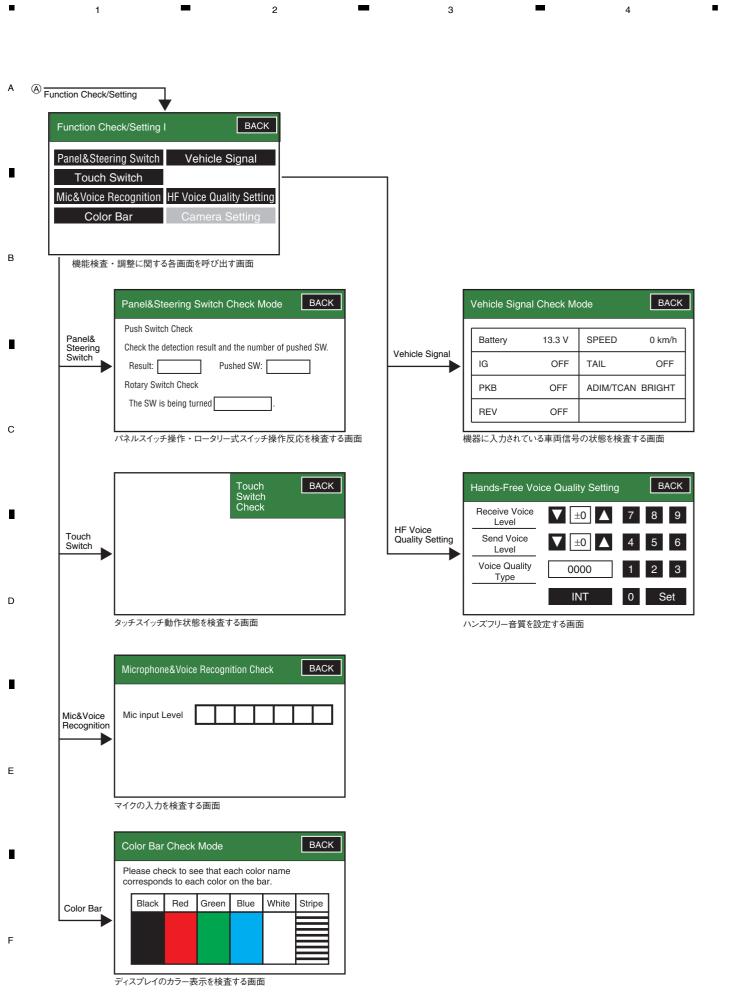
DIAGNOSIS MODE: see next section.

## **DIAGNOSIS MODE**

#### Service Menu Flow diagram



Code CLR



# Diagnosis code table

B****cord management list(MM System area)	
Cause	/
Device abnormal	*551
Communication abnormal	<b>1</b> 26*
Disconnection (not connected) - short	*/\$1
Other device(Other parts) Abnormal detection - Environmental	158*
abnormal detection - Processing failure	
Communication abnormal	*6\$1
Device abnormal	15A*
	15B*
Disconnection (not connected) · short	12C*
Communication abnormal	1SD*
Other device (Other parts) Abnormal detection • Environmental abnormal detection • Processing failure	15E*
Reserved(Communication abnormal)	15F*

Code Details	30 Camera image abnormal				Ť	Ī	Ī					Ī	3C SD card communication abnormal		3E Reserved	SF Reserved		91 Audio HU device no reply	92 DVD player device no reply	93 AMP device no reply		95 RSE device no reply			Ť	99 DCM no reply			9C HUD device no reply							Ì			A6 Display device abnormal		A8 DCM abnormal	A9 DSRC abnormal		AB Operation panel device abnormal			AE Mobile broadcasting device abnormal	AF Hapthick device abnormal
Division C	BI		B1582	B1583	B1584	B1585	B1586	B1587	B1588	B1589	B158A	B158B	B158C	B158D	B158E	B158F		B1591	B1592	B1593	B1594	B1595	B1596	B1597	B1598	B1599	B159A	B159B	B159C	B159D	B159E			B15A1	B15A2	B15A3	B15A4	B15A5	B15A6	B15A7	B15A8	B15A9	B15AA	B15AB	B15AC	B15AD	B15AE	B15AF
Div	B158*																B159*																B15A*															
Details	DAB tuner abnormal	HD-RADIO tuner abnormal	Extension module device abnormal	Reserved	Reserved	Reserved	Reserved	Motor control device failure	XM tuner device failure	XM tuner device failure	haputhick device failure	DAB device failure	CD-CH device failure	Navigation- Brake communication data abnormal	HUD device failure	Clock device failure	DVD-ROM deck device failure	Gateway device failure	USB BOX device failure	Extension module device failure	Reserved	USB BOX device no reply	Motor control device no reply	Indicator(RED) not connected	Indicator(GREEN) not connected	Microphone not connected Reserved	No telephone antenna connected (short) Reserved	GVIF not connected (from Perimeter monitoring ECU)	GVIF not connected (from EMV/MM Integral machine to DISP)			Reserved	Sound recognition microphone not connected	Steering SW not connected	No DTV antenna_3 connected	No DTV antenna_4 connected	No DAB antenna connected	No BT antenna connected	Reserved									
Division Code	B1550	B1551	B1552	B1553	B1554	B1555	B1556	B1557	B1558	B1559	B155A	B155B	B155C	B155D	B155E	B155F	B1560	B1561	B1562	B1563	B1564	B1565	B1566	B1567	B1568	B1569	B156A	B156B	B156C	B156D	B156E	B156F	B1570	B1571	B1572	B1573	B1574	B1575			B1578	B1579	B157A	B157B	B157C	B157D	B157E	B157F
Division	B155*																B156*																B157*															
_	_		_	_		_	_	_																																								

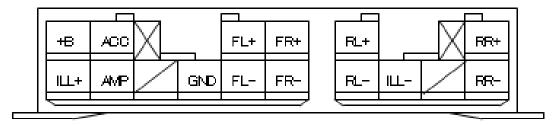
# Diagnosis code table

LIVISIOI	Code	Details	DIVIS	2
B15B*	B15B0	Display area abnormal	B15E*	*.
	BISBI	TV tuner abnormal		
	B15B2	DTV tuner abnormal		
	B15B3	Radio tuner abnormal		
	B15B4	CD(changer) mecha abnormal		
	B15B5	DVD(changer) mecha abnormal		
	B15B6	MD(changer) mecha abnormal		
	B15B7	Bluetooth module abnormal		
	B15B8	HDD abnormal		
	B15B9	DVD-ROM deck abnormal		
	B15BA	XM tuner block abnormal		
	B15BB	USB-BOX abnormal		
	B15BC	Reserved		
	B15BD	Reserved		
	BISBE	Reserved		
	B15BF	Reserved		
B15C*	B15C0	GPS antenna not connected (short)	B15F*	l*
	B15C1	GPS antenna not connected (disconnection)		
	B15C2	Speed pulse signal abnormal		
	B15C3	Speaker output short		
	B15C4	Air bag signal non-input		
	B15C5	Manual operation button abnormal		
	B15C6	IG signal abnormal		
	B15C7	ATV antenna selector not connuected		
	B15C8	DTV antenna 1 not connected		
	B15C9	DTV antenna 2 not connected		
	B15CA	ETC antenna not connected		
	B15CB	DCM antenna not connected		
	B15CC	Back up battery disconnection		
	B15CD	Optical beacon antenna not connected		
	B15CE	Seedback display not connected		
B15D*	B15D0	MOST communication non-establishment		l
	BISDI	Audio HU device not commected failure		
	B15D2	DVD player device failure		
	B15D3	AMP device failure		
	B15D4	DTV device failure		
	B15D5	RSE device failure		
	B15D6	Display device failure		
	B15D7	ETC device failurer		
	B15D8	Perimeter monitoring device failure		
	B15D9	Operation panel device failure		
	B15DA	Rear controller device failure		
	B15DB	DCM device failure		
	B15DC	RS-ECU device failure		
	B15DD	DSRC device failure		
	B15DE	DCM Location information suspension		
	B15DF	USB-BOX connected device communication abnormal		

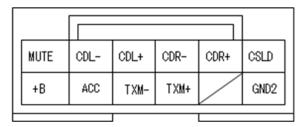
Division	Code	Details
B15E*	B15E0	Security camera operation abnormal
	B15E1	Reproduction media abnormal
	B15E2	ETC CARD abnormal
	B15E3	B-CAS CARD abnormal
	B15E4	Brake system hard abnormal
	B15E5	Electric slot system abnormal
	B15E6	Regulation camera image signal input abnormal
	B15E7	HDD Read/writing abnormal (Low temperature)
	B15E8	
	B15E9	Communication processing failure
	B15EA	OTA failure(A7)
	B15EB	OTA failure(other)
	B15EC	Back up battery deterioration
	B15ED	Noncompliant Back up battery detection
	BISEE	Contract invalidity
	B15EF	Help In-vehicle device ID change
B15F*	B15F0	Reserved
	B15F1	ETC communication information abnormal
	B15F2	ETC wirwless communication abnormal
	B15F3	Setup abnormal
	B15F4	Operation abnormal
	B15F5	Air conditioner BCU: The vehicle setting processing is abnormal.
	B15F6	Main body ECU:The vehicle setting processing is abnormal.
	B15F7	Checking ECU:The vehicle setting processing is abnormal.
	B15F8	D-seat ECU: The vehicle setting processing is abnormal.
	B15F9	Reserved
	B15FA	D-seat door ECU:The vehicle setting processing is abnormal.
	B15FB	P-seat door ECU:The vehicle setting processing is abnormal.
	B15FC	AMP-ANC connected device disagreement
	B15FD	mobile air antenna not connected
	B15FE	XM tuner antenna not connected
	B15FF	XM tuner antenna short

### CONNECTOR INFORMATION

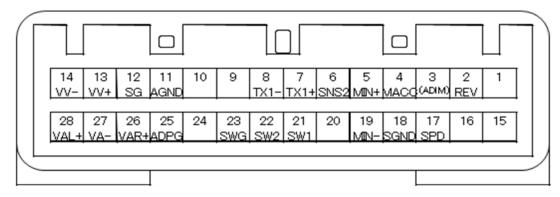
A. Powers and Speakers (2.3 II 10P+6P)



B. AVC-LAN (0.64 12P)



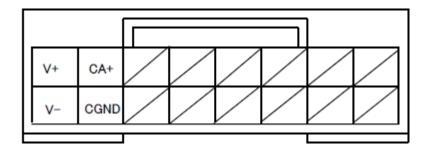
C. EXTENSIONS (0.64 28P)



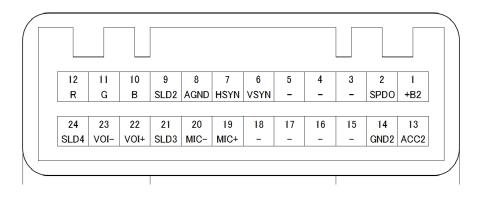
D. USB (TOYOTA USB 2.0 4P)

USV1 (GPL)	4 UGD1 (GKG)	
2 US1- (GPH)	3 US1+ (GPJ)	
	(GPK)	

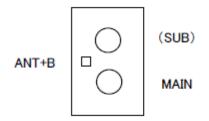
E. Rear camera (0.64 16P)



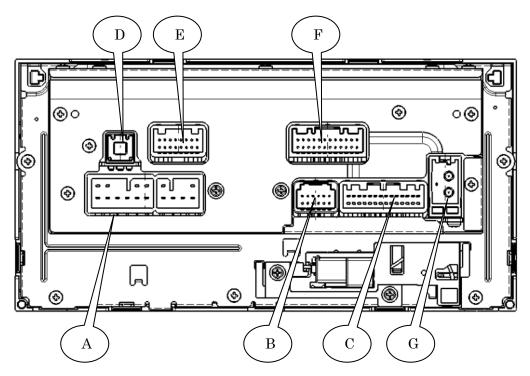
### F. EXTENSIONS (0.64 24P)



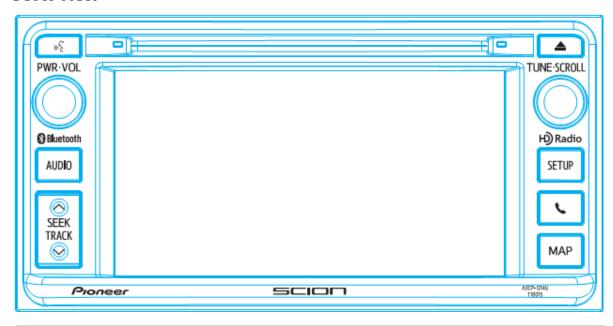
#### G. Antenna (HFC 2P+0.64 1P)

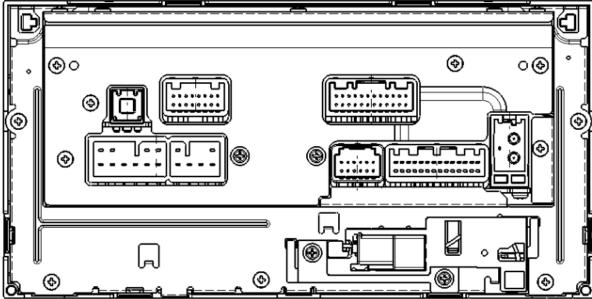


### ■ REAR VIEW



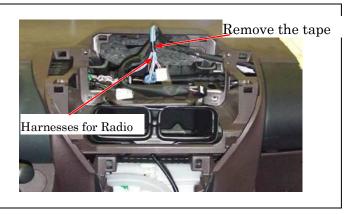
#### PT546-00140

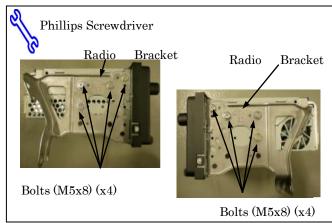


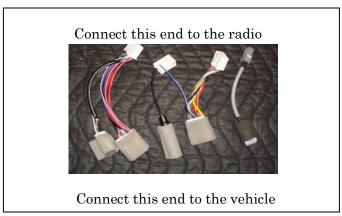


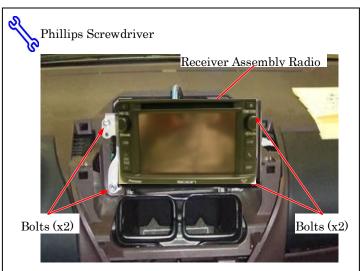
## <u>Installation Manual</u>

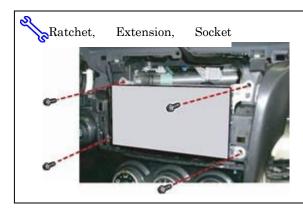
<u>iQ</u>



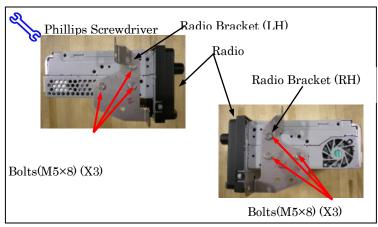


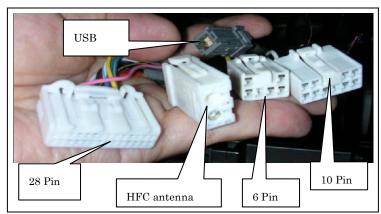


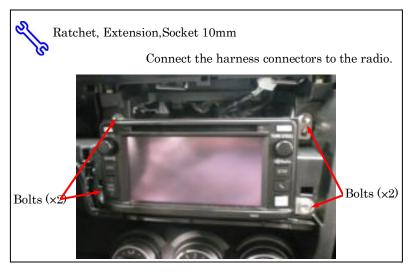


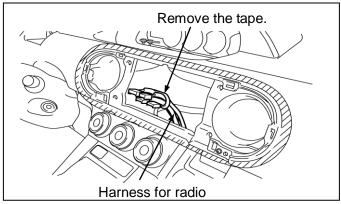


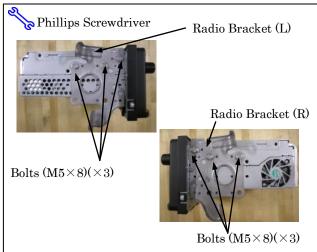
Remove the and save the 4 bolts and remove the radio brackets (R) and (L) from the interior panel.

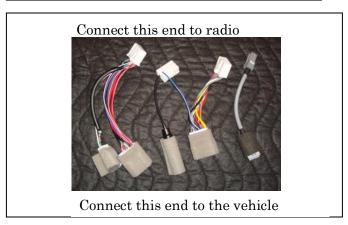


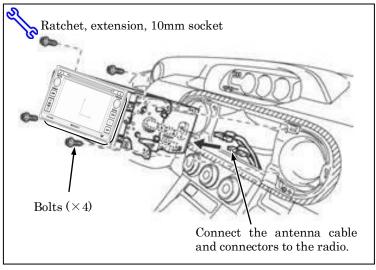


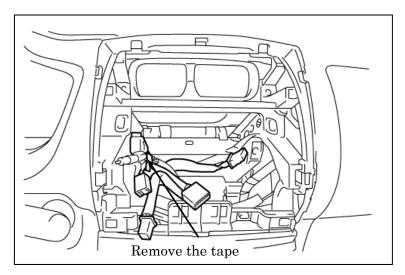


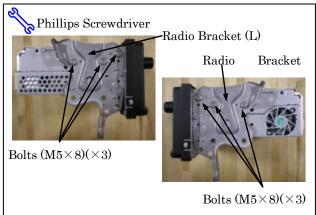


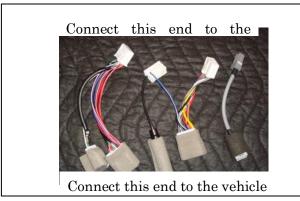


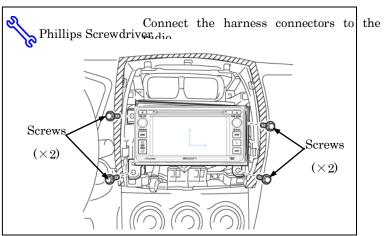




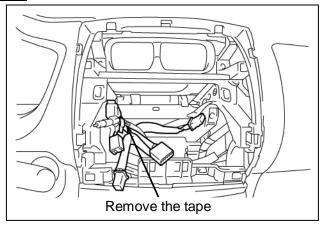


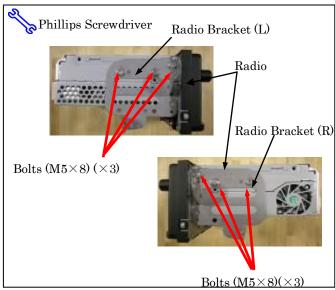


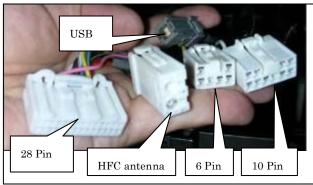


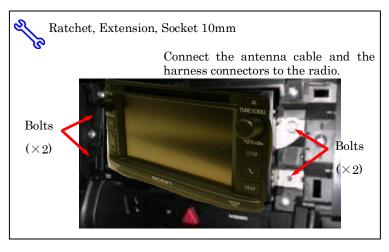


## FR-S

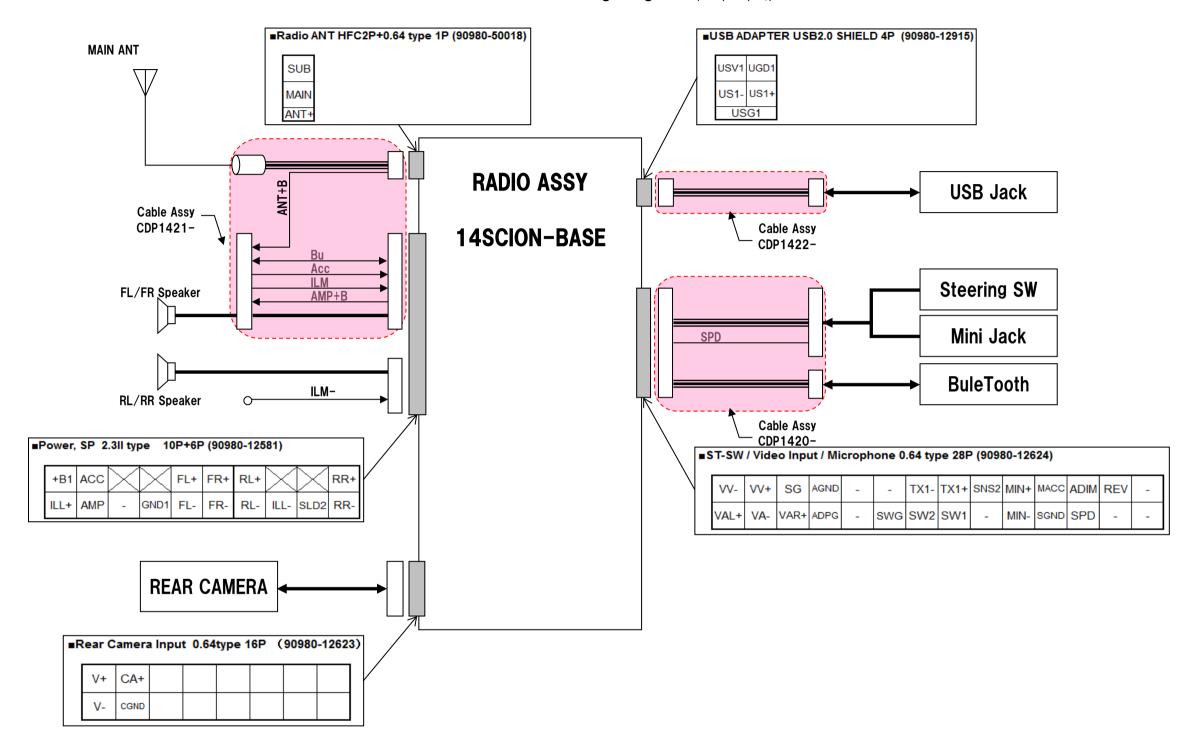




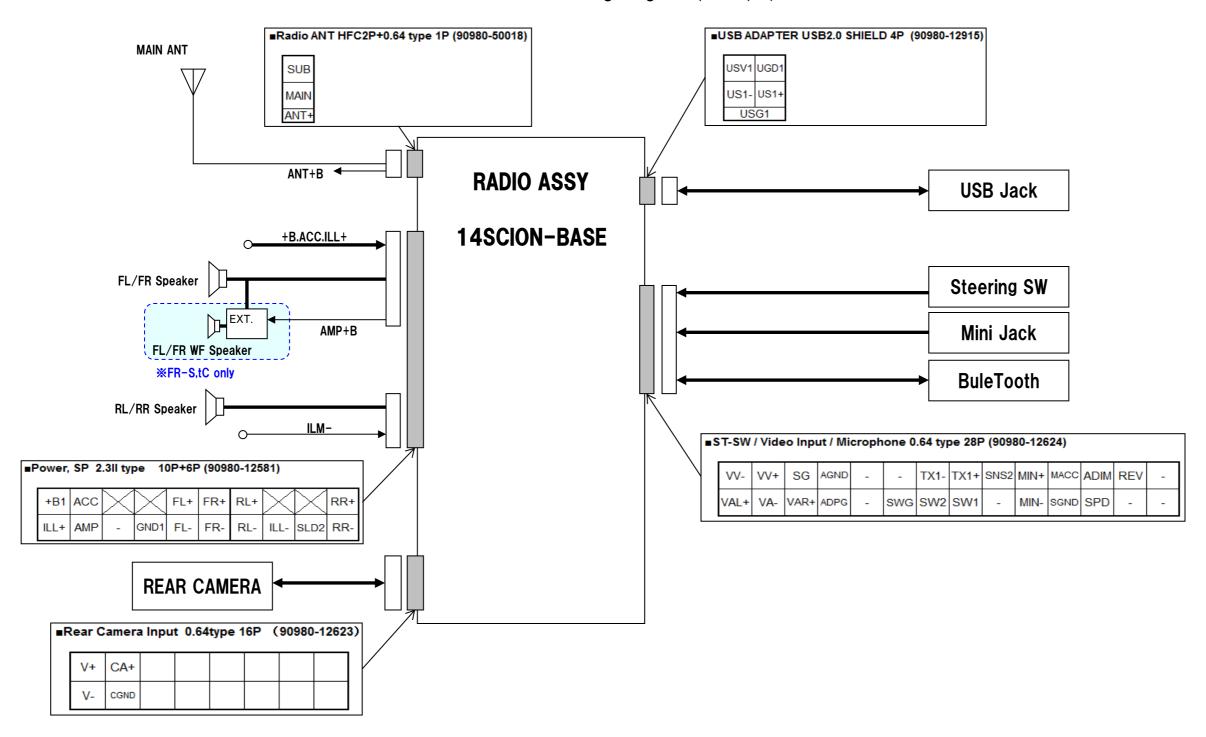




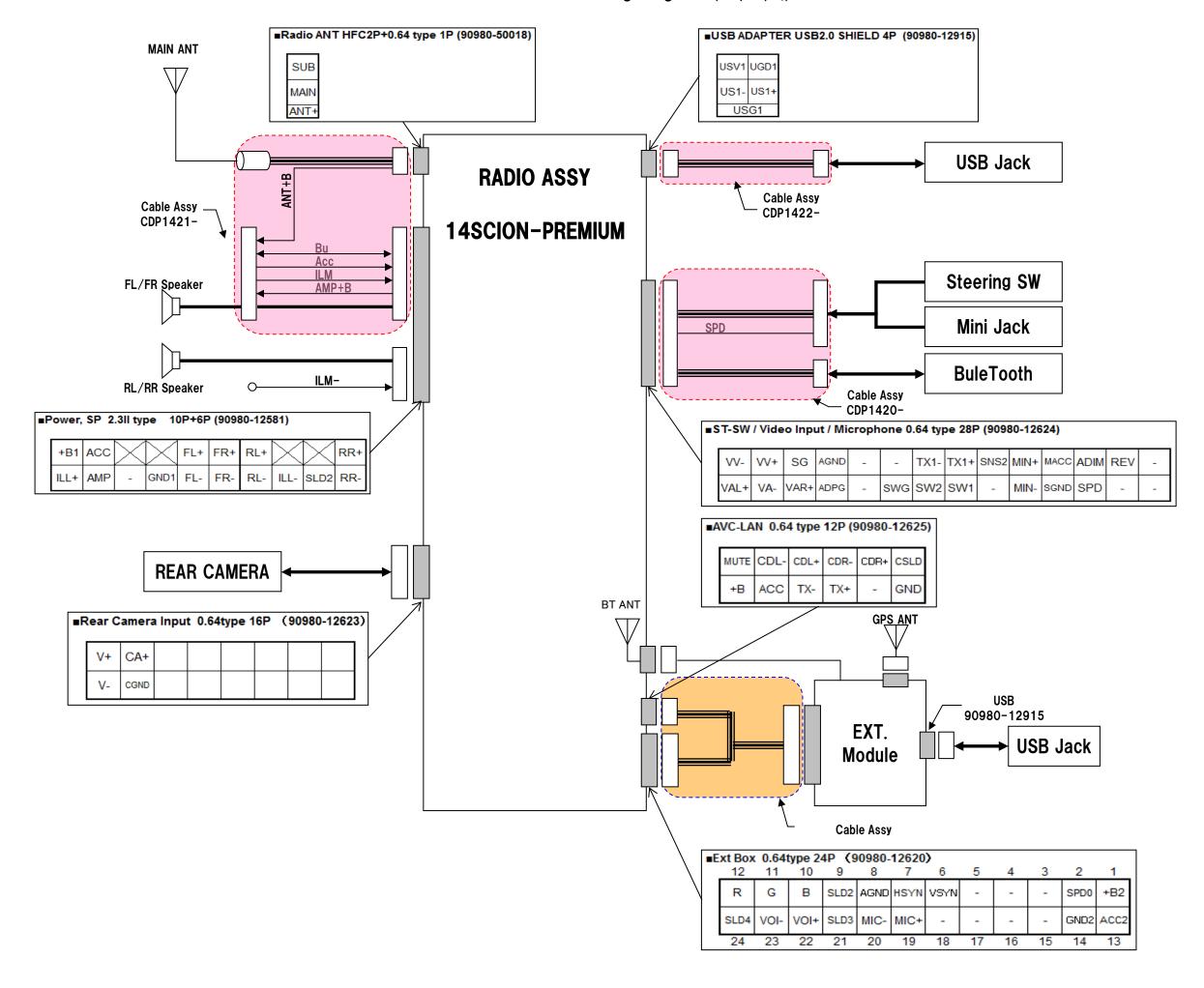
# 14SCION-BASE Electrical Wiring Diagram (xB,xD,iQ)



# 14SCION-BASE Electrical Wiring Diagram (FR-S,tC)



# 14SCION-PREMIUM Electrical Wiring Diagram (xB,xD,iQ)



## 14SCION-PREMIUM Electrical Wiring Diagram (FR-S,tC)

