SUBARU CAR AUDIO
STANDARD MODEL
OPERATION SPECIFICATION

Standard model

FCC ID : AX2PF3292

IC ID : 419C-PF3292

Model name : PF-3*** series

26, Jan. 2010　Ver.0.09

clarion

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2. □OUTLINE

- This operation specification is the operation specification of SUBARU ZN4/PD5(Standard).
- This operation specification is the standard specification for all densinations of SUBARU ZN4/PD5(Standard).
- For the control connent of setting microcontroller, please refer to [ZN4/PD5_MICON Specification].
- This operation specification is also the test specification.
- Please check the □ box if you have checked the item.

2-1. □Destination / Model Set Name

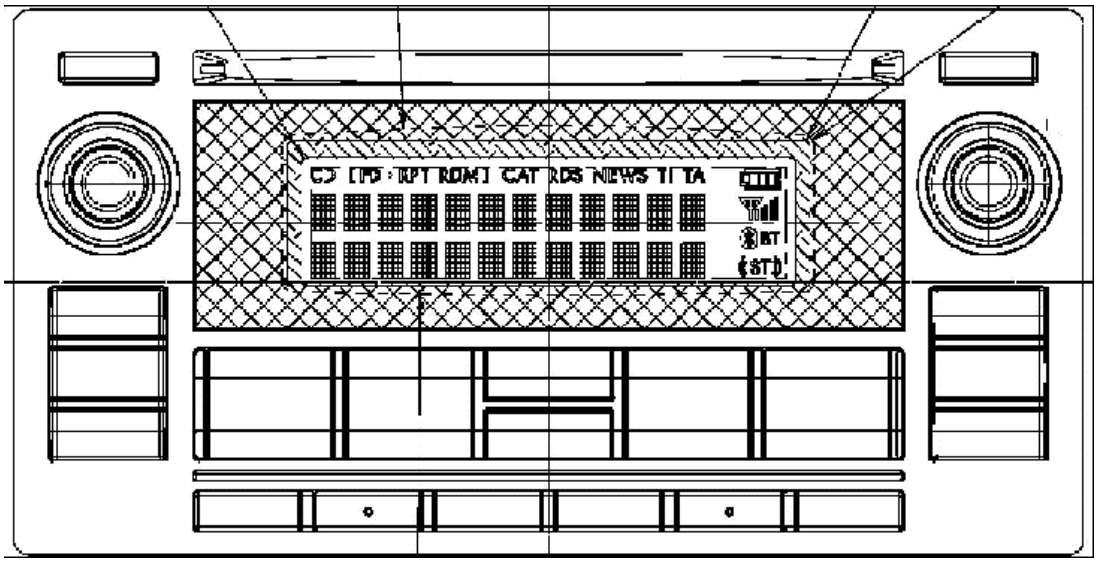
Outline	Car	Model Set	Destination	Note
Standard 2DIN 1CD	ZN4(IMPREZA)	PF-3292	North America(U)	For Left Handle
		PF-3293	Europe(E)	For Right Handle
		PF-3294	Europe(E)	For Left Handle
		PF-3295	Australia(A)	For Right Handle
	PD5(FORESTER)	PF-3297	North America(U)	For Left Handle
		PF-3298	Europe(E)	For Right Handle
		PF-3299	Europe(E)	For Left Handle
		PF-3300	Australia(A)	For Right Handle

2-2. □Warning

- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment..
- This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

- This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

2-3. □Surface Image



3. □Feature List

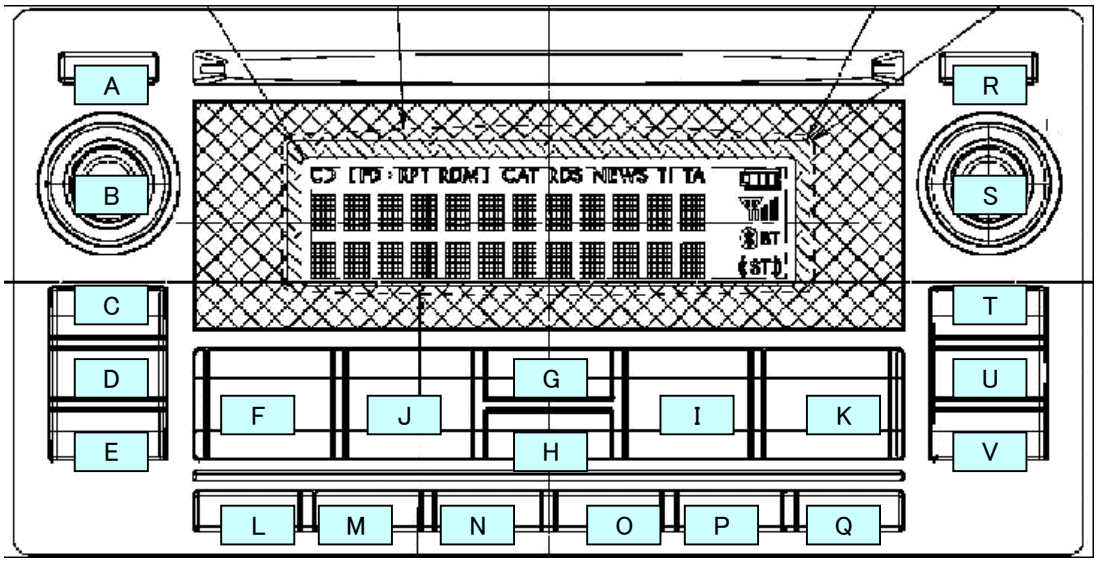
Mode	Function	Destination (ZN4/PD5 Common)			Note
		North America (U)	Europe (E)	Australia (A)	
RADIO	AM (LW) Frequency Band (kHz)	×	153～279	×	3kHz step
	AM (MW) Frequency Band (kHz)	530～1710	531～1602	531～1629	U/K② : 10kHz step E/A/K① : 9kHz step Switch to ①/② by hidden "K" Key
	FM Frequency band (MHz)	87.75～107.9	87.5～108.0	87.5～108.0	U : 200kHz step E/K : 50kHz step A : 100kHz step
	Number of Preset AM Station	6×1	6×2	6×1	
	Number of Preset FM Station	6×3	6×3	6×3	
	MANUAL UP/DOWN	○	○	○	
	SEEK UP/DOWN	○	○	○	
	AUTO STORE	×	○	○	
	Existence Station SCAN UP	○	×	×	
	Preset SCAN UP	×	○	○	
	Switch to LO/DX	AUTO	MANUAL	AUTO	
	RDS/RBDS (AF) ON/OFF	×	○	○	
	REG ON/OFF	×	○	○	
	PS	○	○	○	
	TI ON/OFF	×	○	○	
	NEWS ON/OFF	×	○	○	
	Selection PTY	○	×	×	Group Selection
	PTY SEEK	○	×	×	Group Selection
	PTY SCAN	×	×	×	
	PTY Auto Store	×	×	×	
	RADIO TEXT	○	×	×	
	EON	×	○	○	
	TI / NEWS / Alarm Interrupt	×	○	○	
	Adjust TI / NEWS / Alarm Interrupt VOLUME	×	○	○	
SAT (XM)	Number of Preset Station	6×3	×	×	
	CHANNEL UP/DOWN	○	×	×	
	CHANNEL10Digits UP/DOWN	○	×	×	
	CHANNEL SCAN UP	○	×	×	
	CATEGORY SEARCH MODE	○	×	×	
	CATEGORY UP/DOWN	○	×	×	IN CATEGORY SEARCH MODE
	DISPLAY TITLE	○	×	×	WithoutPage transition
SAT (Sirius)	Number of Preset Station	6×3	×	×	
	CHANNEL UP/DOWN	○	×	×	

	CHANNEL10Digits UP/DOWN		○	×	×	
	CHANNEL SCAN UP		○	×	×	
	CATEGORY SEARCH MODE		○	×	×	
	CATEGORY UP/DOWN		○	×	×	IN CATEGORY SEARCH MODE
	DISPLAY TITLE		○	×	×	WithoutPage transition
	PARENTAL LOCKOUT		×	×	×	
CD	TRACK UP/DOWN		○	○	○	
	FOLDER UP/DOWN		○	○	○	Only for playing compressed audio
	FF/FB		○	○	○	
	TRACK REPEAT		○	○	○	
	FOLDER REPEAT		○	○	○	Only for playing compressed audio
	ALL RANDOM		○	○	○	
	FOLDER RANDOM		○	○	○	Only for playing compressed audio
	SCAN		○	○	○	
	DISPLAY CD-TEXT		○	○	○	
	DISPLAY FOLDER/FILE NAME		○	○	○	Only for playing compressed audio
	DISPLAY COMPRESSED AUDIO TAG		×	×	×	
	BACKUP EJECT		○	○	○	
	PLAYBACK COMPRESSED AUDIO		○	○	○	Support MP3/WMA/AAC
	PLAYBACK CD-R/RW		○	○	○	
USB	TRACK UP/DOWN		○	○	○	
	FOLDER UP/DOWN		○	○	○	Only for playing compressed audio
	FF/FB		○	○	○	
	TRACK REPEAT		○	○	○	
	FOLDER REPEAT		○	○	○	Only for playing compressed audio
	ALL RANDOM		○	○	○	
	FOLDER RANDOM		○	○	○	Only for playing compressed audio
	FOLDER SCAN		○	○	○	Only for playing compressed audio
	DISPLAY FOLDER/FILE NAME		○	○	○	Only for playing compressed audio
	DISPLAY COMPRESSED AUDIO TAG		×	×	×	
	PLAYBACK COMPRESSED AUDIO		○	○	○	SUPPORT MP3/WMA/AAC
	PLAYBACK iPod		○	○	○	MUSIC ONLY
Bluetooth	HFP		○	○	○	
	OPP		○	○	○	
	A2DP		○	○	○	
	AVRCP(Ver.1.1/1.3)		○	○	○	
	VOICE RECOGNIZATION	H/F OPERATION	○	○	○	
		AUDIO OPERATION	○	○	○	
		MULTI LANGUAGES SUPPORT	ENGLISH、FRENCH	×	×	
AUDIO	VOLUME		○	○	○	0～+40
	BASS/MID/TREBLE		○	○	○	±8/±8/±8
	BALANCE/FADER		○	○	○	±9/±9
	PRESET TONE		×	×	×	None
	PRESET BALANCE		×	×	×	None

	SWITCH BEEP ON/OFF	○	○	○	
	LOUDNESS	○	○	○	FIXED ON
	SRS Circle Surround Automotive	×	×	×	None
	TIME ALIGNMENT	×	×	×	None
	MUTE	○	○	○	Only for the key of Steering Controller
	CLOCK	×	×	×	None
	BEEP	○	○	○	possible to switch ON/OFF
	SUPPORT STREERING REMOTE CONTROLLER	○	○	○	
	DISPLAY AREA（LCD）	5×7dot×12digits×2lines	5×7dot×12digits×2lines	5×7dot×12digits×2lines	
	BUS	Sie-BUS / CAN	Sie-BUS / CAN	Sie-BUS / CAN	No Ce-NET
OTHERS	SUPPORT TEL MUTE	○	○	○	
	CONNECT TO AUX	○	○	○	
	ADJUST AUX VOLUME	○	○	○	
	1STEP DIMMER	○	○	○	
	イルミコントロール Function	○	○	○	
	CONNECTION DEVICE	XM-BB Sirius-BB MEDIA-HUB	MEDIA-HUB	MEDIA-HUB	Sie-BUS
	PREVENT FROM BURGLAR	×	○	×	ONLY RIGHT HANDLE CAR CAN
	SPEED VOICE CONTROL(SVC)	○	○	○	CAN

4. □ Key Disposition

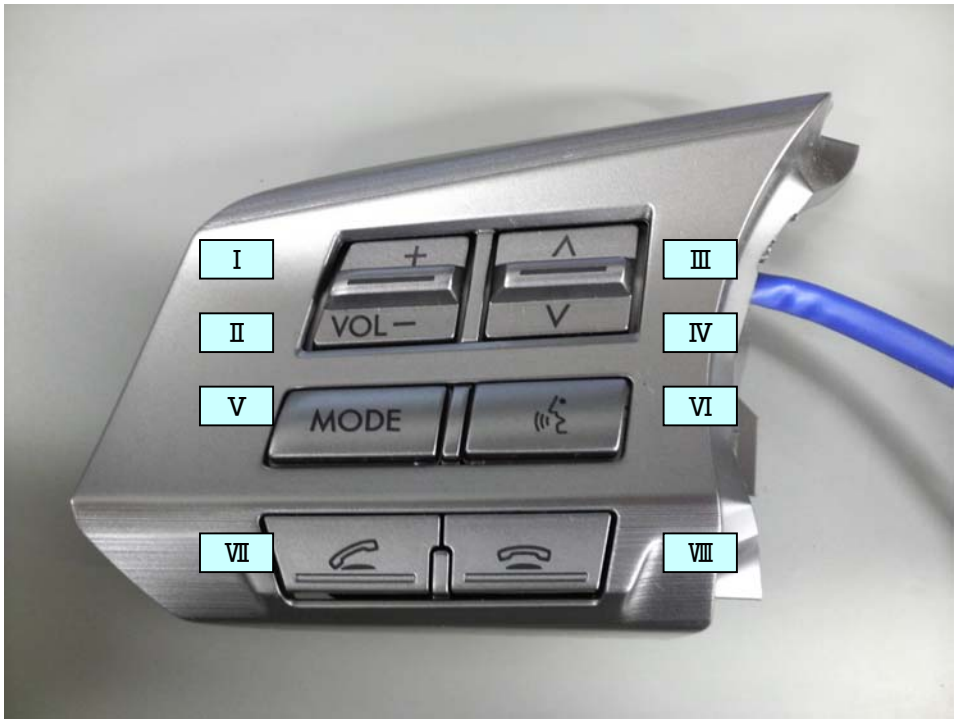
4-1. □Body



記号 \ Destination	Key Name			
	North America	Europe(LH)	Europe(RH)	Australia
A	EJECT	←	TEXT	←
B	VOLUME	←	TUNE (※1)	←
C	CD / AUX	←	LIST / BACK	←
D	FM / AM	←	RPT / RDM	←
E	SAT	RDS	SCAN / AS	←
F	PTY / CAT	T.I/NEWS	MENU	←
G	UP	←	←	←
H	DOWN	←	←	←
I	>>	←	←	←
J	<<	←	←	←
K	MENU	←	T.I / NEWS	←
L	1	←	←	←
M	2	←	←	←
N	3	←	←	←
O	4	←	←	←
P	5	←	←	←
Q	6	←	←	←
R	TEXT	←	EJECT	←
S	TUNE (※1)	←	VOLUME	←
T	LIST / BACK	←	CD / AUX	←
U	RPT / RDM	←	FM / AM	←
V	SCAN	SCAN/AS	RDS	←

※1) "TUNE / TRACK / CH" will be described as "TUNE" in the specification documents.

4-2. □Remote Controller



Destination / Symbol	Key Name		
	North America	Europe	Australia
I	VOLUME +	←	←
II	VOLUME −	←	←
III	UP	←	←
IV	DOWN	←	←
V	MODE	←	←
VI	TALK	←	←
VII	OFF HOOK	←	←
VIII	ON HOOK	←	←

5. ☐ Operation Specification

5-1. ☐Audio Common Operation

5-1-1. ☐VOLUME UP / DOWN

Function	☐ VOLUME UP / DOWN
Operation of button	☐ Turn left/right the VOLUME key
Destination	**North America ・ Europe ・ Australia**
Detail	☐ There are 41 steps in VOLUME STEP from Step0 to Step40. ☐ The set will keep the volume value for each of connection AUX and other modes.(such as RADIO,CD mode) ☐ Initial volume value is 15. ☐ Initial volume value of AUX mode is 15. ☐ If you turn right the VOLUME key, the volume value will be 1 step up. ☐ If you turn left the VOLUME key, the volume value will be 1 step down. ☐ If you adjust volume, it will display the volume value such as "VOLUME 15". ☐ If you turn right when the volume value is the max value (40), or turn left when the volume value is the min value(0), the volume value will not be changed. ☐ The VOLUME key of set will be effective when playing FF/FB in CD mode. ☐ The VOLUME key of Steering Controller will be not effective when playing FF/FB in CD mode. ☐ The VOLUME key of set will be not effective in BT-TEL mode. (incoming call/calling/voice infomation) ☐ Volume adjustment will be released by following conditions. ☐ No volume adjustment operation in 5 seconds. ☐ When you turn ACC / POWER off. ☐ When you touch any effective key in any source mode.

5-1-2. ☐Switch to TONE / BALANCE Adjustment Mode

Function	☐ Switch to TONE / BALANCE Adjustment Mode （BASS / MIDDLE / TREBLE / FADER / BALANCE）
Operation of button	☐ Touch the TUNE key for less than 1.5sec. (Operation when Key is OFF)
Destination	**North America ・ Europe ・ Australia**
Detail	☐ If you touch the TUNE key for less than 1.5sec, it will switch to TONE / BALANCE adjustment mode. ☐ It will go to next mode like following, when you touch the TUNE key. Normal Mode → BASS → MIDDLE → TREBLE → FADER → BALANCE → Normal Mode ☐ TONE / BALANCE adjustment mode will be released by following conditions. ☐ No operation is done in 5 seconds after you switch to next TONE / BALANCE adjustment mode. ☐ When you turn ACC / POWER off. ☐ When you touch the TUNE key in BALANCE adjustment mode. ☐ When you touch any effective key in any source mode.

5-1-3. ☐ Adujust TONE / BALANCE UP / DOWN

Function	☐ Adujust TONE / BALANCE UP / DOWN (BASS / MIDDLE / TREBLE / FADER / BALANCE)
Operation of button	☐ Turn left/right the [TUNE] key
Destination	**North America ・ Europe ・ Australia**
Detail	☐ If you turn the [TUNE] key in T/B adjustment mode, the T/B adjutment value will be up/down. ☐ When the adjustment value becomes 0 (CENTER) by your operation, the value will be hold on for 500msec. ☐ If you turn right the keu when the value is the max, or you turn left when the value is the min, the adjustment value will not be changed. ☐ The range of the T/B adjustment value is the following.

Mode	Adjustment Step	Adjustment Range	Total Steps	Init Value
BASS	±1step	−8 ～ +8	17	0
MIDDLE	±1step	−8 ～ +8	17	0
TREBLE	±1step	−8 ～ +8	17	0
FADER	R/F ±1step	R 9 ～ F 9	19	0
BALANCE	L/R ±1step	L 9 ～ R 9	19	0

Turn Left ← [TUNE] → Turn Right

5-2. ☐ Operation of MENU

5-2-1. ☐ Switch to MENU Mode

Function	☐ Call / Switch to MENU Mode
Operation of button	☐ Touch the [MENU] key. (Action when Key is ON.)
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will go to next mode like following, when you touch the [MENU] key. ☐ Initial setting is "OFF". ・ Destination for North America [OFF] → [BT Audio] → [SVC] → [BEEP] → [OFF] It will go to BT TEL MENU if you want to select BT HFP Language. ・ Destination for Europe・Australia [OFF] → [BT Audio] → [REG] → [VOL ADJUST] → [SVC] → [BEEP] → [OFF] ☐ MENU mode will be released by following conditions. ☐ No operation is done in 5 seconds after you switch to next menu mode. ☐ When you turn ACC / POWER off. ☐ When you touch [MENU] key in BEEP adjustment mode. ☐ When you touch any effective key in any source mode.

5-2-2. □BT Audio Setting

Function	□ Bluetooth Audio Setting □ PAIR AUDIO : Pair to a mobile phone which has A2Dpprofile. □ SELECT AUDIO : Select a mobile phone from registration list. □ SET PASSKEY : Set passkey for pairing. □ DELETE AUDIO : Delete a mobile phone from registration list. ※ BT Audio setting is not effective when driving. ※ Touch "GO BACK" on the top of each item to release menu mode and go back to the last source.
Operation of button	□ PAIR AUDIO 1. Select "PAIR AUDIO" □ Key Operation : Turn the [TUNE] key in BT Audio Setup MENU, select "PAIR AUDIO" and touch. ※ It will display "MEMORY FULL" for 2sec and go to BT Audio Setting Menu if there are more than one BT audio in registration list. 2. Make it waiting for searching and put in the passkey by mobile phone. □ SET SIDE : It will go to display passkey text automatically after displayed "CAR M_MEDIA". □ MOBILE SIDE : Put in the passkey by mobile phone after finishing searching. ※The passkey should be the same to the HF set. ○When paired successfully it will display Device Name and go to BT Audio Setting Menu after displaying "PAIRED". ○When failed in pairing it will go to BT Audio Setting Menu after displaying "FAILED". ※ Initial passkey is "1234". ※ Touch the [BACK] key to release from waiting for searching. ※ Touch the [BACK] key to go back to BT Audio Setting Menu. □ SELECT AUDIO 1. Select "SELECT AUDIO" □Key Operation: Turn the [TUNE] key in BT Audio Setup MENU, select "SELECT AUDIO" and touch. ※ It will display "EMPTY" for 2sec and go to BT Audio setting if there is no BT audio in registration list. 2. Confirm the connection □ Key Operation : Turn the [TUNE] key when displaying "BT Audio", select "CONFIRM" and touch. □ When connected successfully it will go to BT Audio setting after displaying "SELECTED". □ When failed in connecting it will go to BT Audio setting after displaying "FAILED".

	☐ SET PASSKEY 1. Select "SET PASSKEY" ☐Key Operation : Turn the TUNE key when in BT Audio Setup MENU, select "SET PASSKEY" and touch. 2. Set PASSKEY ☐It will display the current passkey(PKY:XXXXXXXX), then display new PASSKEY INPUT TEXT. ※ 4-8 digits number is available. ※ If you set new passkey in BT Audio, the passkey of HF set is also changed. The same is true in reverse. ※ Initial passkey is "1234". ☐Key Operation : Turn the TUNE key when displaying "BT Audio", input numbers and touch. 3. Confirm the New Passkey ☐Key Operation : Turn the TUNE key when displaying "BT Audio", select "CONFIRM" and touch. ☐When finishes reseting the passkey it will go to BT Audio Setting Menu after displaying the New PASSKEY for 2sec. ☐ DELETE AUDIO 1. Select "DELETE AUDIO" ☐Key Operation : Turn the TUNE key in BT Audio Setup MENU, select "DELETE AUDIO" and touch. ※ It will display "EMPTY" for 2sec and go to BT Audio setting if there is no BT audio in registration list. 2. Confirm Delection ☐Key Operation : Turn the TUNE key to select "CONFIRM" and touch. ☐When finish deleting the passkey it will go to BT Audio setting after displaying "DELETED" for 2sec.
Destination	**North America ▪ Europe ▪ Australia**
Detail	☐ It is not available to registrate VOICE TAG. ☐ VOICE COMAND is not available for this function. ☐ Only one Audio model can be registrated. ☐ There is no timeout in BT Audio menu.

5-2-3. □Adjust REG

Function	□ Adjust REG in MENU Mode
Operation of button	□ Turn the TUNE key while adjusting REG
Destination	North America ▪ **Europe** ▪ **Australia**
Detail	□ Turn the TUNE key while adjusting REG in MENUMode to switch REG ON/OFF. □ Initial setting is off. □ It is availble to switch REG ON/OFFonly when RDS(AF) is ON. □ It cannot go to REG Adjustment Menu when RDS is OFF or not in FM mode. □ It is not availble to turn up when the Adjustment Value is ON, or turn down when the Adjustment Value is OFF. □ The Detail of REG Function is in Item" REG" in "The Operation of Radio(RDS)".

5-2-4. ☐ Adjust Interrupt Volume

Function	☐ **Adjust Interrupt Radio Volume**
Operation of button	☐ in MENU Mode : Turn the [TUNE] key while adjusting volume . ☐ while Interrupt receiving : Turn the [VOLUME] key.
Destination	North America ▪ **Europe** ▪ **Australia**
Detail	☐ It is available to adjust interrupt volume when in MENU mode or while Interrupt receiving. ☐ Initial interrupt volume value is 17. ☐ When TI/NEWS/ALARM interrupts, it will compare the normal volume value to interrupt volume value, and set the large one as interrupt volume value. ☐ It will return to normal volume value after interrupt released or finished. ■ Adjustment in MENU Mode ☐ Turn the [TUNE] key while adjusting volume in MENU mode to adjust the volume value for interrupt only. (Adjustment manual of interrupt volume is the same as normal's) ■ Adjustment While interrupt receiving ☐ Turn the [VOLUME] key while interrupt receiving TI/NEWS/ALARM to adjust the volume value for interrupt only. (Adjustment manual of interrupt volume is the same as normal's)

5-2-5. □Adjust SPEED VOLUME CONTROL (SVC)

Function	□ **Adjust SPEED VOLUME CONTROL (SVC) in Menu Mode**
Operation of button	□ Turn the TUNE key
Destination	**North America ・ Europe ・ Australia**
Detail	□ Turn the TUNE key while adjusting SVC in MENU Mode to adjust SVC □ Initial setting is OFF. □ The adjustment value will not be changed if you turn up when it is the MAX value, or turn down when it is the MIN value. □ Adjustment range is the following.

Mode	Adjustment Step	Adjustment Range	Total Steps	Initial Value
SVC	±1step	0FF ～ 2	3	OFF

Turn Left ← TUNE → Turn Right

5-2-6. □Adjust BEEP

Function	□ Switch BEEP ON/OFF in MENU Mode
Operation of button	□ Turn the TUNE key while adjusting BEEP.
Destination	**North America ・ Europe ・ Australia**
Detail	□ Turn the TUNE key while adjusting BEEP to switch BEEP ON/OFF. □ Initial setting is ON. □ The adjustment value will not be changed if you turn up when it is ON, or turn down when it is OFF.

5-3. □ Operation of RADIO (RBDS)

5-3-1. □Initial Setting of RADIO

Function	□ Initial Setting of RADIO Frequency / Preset CHANNEL
Operation of button	—
Destination	**North America** ・ Europe ・ Australia
Detail	■RADIO Setting

Item \ BAND	FM	AM
Frequency Range	87.75 ～ 107.9 MHz	530 ～ 1710 kHz
Receiving Step	200 kHz	10 kHz
SEEKStep	200 kHz	10 kHz
Band	3 バンド	1 バンド
Initial Value of Band/ Frequency	FM1 98.1 MHz	AM 1000 kHz
	FM2 87.7 MHz	–
	FM3 87.7 MHz	–

※ 87.75 will be display as 87.7.
※ Preset Number will not be displayed initial.

■Initial Value of Preset CHANNEL

BAND \ CH	1ch	2ch	3ch	4ch	5ch	6ch
FM1 (MHz)	87.7	90.1	98.1	106.1	107.9	87.7
FM2 (MHz)	87.7	87.7	87.7	87.7	87.7	87.7
FM3 (MHz)	87.7	87.7	87.7	87.7	87.7	87.7
AM (kHz)	530	600	1000	1400	1630	530

※ It will display the CHANNEL Number only when you touch the "PRESET" key.
⇒ It will not display preset channel even the Frequency searched bay TUNE/SEEK is tha same as Preset memory..

5-3-2. ☐Call / Switch RADIO Mode

Function	☐ Call FM/AM RADIO Mode and Switch to BAND
Operation of button	☐ Touch the [FM / AM] key
Destination	**North America** ▪ Europe ▪ Australia
Detail	☐ If you touch [FM / AM] key in other source mode, it will start toreceive Frequency of last Band and last memory. ☐ It is also effective when POWER OFF. ☐ ((ST)) indicator will blink while receiving Stereo Broadcast in FM mode. ☐ If you touch the [FM / AM] key in FM/AM mode, it will switch to next Band like following. [FM1] → [FM2] → [FM3] → [AM] → [FM1]

5-3-3. ☐TUNE UP / DOWN

Function	☐ RADIO TUNE UP/DOWN
Operation of button	☐ Turn the [TUNE] key
Destination	**North America** ・ Europe ・ Australia
Detail	☐ If you turn right the [TUNE] key in radio mode, the receiving frequency will be 1 step up. ☐ If you turn left the [TUNE] key in radio mode, the receiving frequency will be 1 step down. ☐ If you turn up when frequency is the maximum, it will go to the minimum frequency. ☐ If you turn down when frequency is the minimum, it will go to the maximum frequency.

5-3-4. ☐SEEK UP / DOWN

Function	☐ RADIO SEEK UP/DOWN
Operation of button	☐ Touch the [>>] & [<<] key (Action when Key is ON.)
Destination	**North America** ▪ Europe ▪ Australia
Detail	☐ If you touch the [>>] or [<<] key in RADIO mode, the receiving frequency will seek up or down. ☐ Latency time for seeking FM is 6msec, and AM is 30 msec. ☐ It will be MUTE while seeking. ☐ If the frequency reaches the maximum when you are seeking up, it will go back to the minimum frequency and go on seeking up. ☐ If the frequency reaches the minimum when you are seeking down, it will go back to the maximum frequency and go on seeking down. ☐ When it goes back to the maximum/minimum frequency, it will keep the next frequency for 500msec then go on seeking. ☐ If you go to volume adjustment mode or T/B adjustment mode while seeking, the adjustment value will be kept even frequency seek finishes after a receiving station is sought out. ☐ Sensitivity of seeking AM is linked to the illumination. It will be LO SEEK when the illumination is ON, and be DX SEEK when the illumination is OFF. ☐ Sensitivity of seeking FM is fixed to DX. ☐ SEEK mode will be released by following conditions. ☐ When received a station which is possible to be received. ☐ When you go to other sourcemode. (The last frequency is the frequency before seeking.) ☐ When you switch to other band. (The last frequency is the frequency before seeking) ☐ when you turn ACC / POWER OFF. (The last frequency is the frequency before seeking) ☐ When you turn the [TUNE] key. (Stop at the frequency when key is ON) ☐ When you touch the [>>] or [<<] key. (Stop at the frequency when key is ON) ☐ When you touch the [1] ~ [6] key. (Call the cahannel you touch when key is ON) ☐ When you touch the [SCAN] key. (Scan starts from the frequency when key is ON) ☐ When you touch the [PTY / CAT] key. (Start PTY selection mode from the frequency when key is ON. **Destination for USA**)

5-3-5. ☐Call PRESET

Function	☐ Call RADIO Preset Channel
Operation of button	☐ Touch the [1] ～ [6] key for less than 1.5sec.
Destination	**North America** ・ Europe ・ Australia
Detail	☐ If you touch the [1] ～ [6] key for less than 1.5sec in RADIO mode, it will call the frequency which is kept as the memory of the key. ☐ It will switch the channel number display when key is ON. ☐ It will switch the frequency display when key is OFF. ☐ It is available to receive the frequency of preset channel when key is OFF. ☐ It will not work when you touch the key that its preset memory has been received. ☐ The following keys are effective before key OFF.（KEY ON～Less than 1.5sec KEY OFF） ☐ the [VOLUME] key ☐ the [EJECT] key

5-3-6. ☐Write PRESET

Function	☐ Preset Memori of RADIO frequency
Operation of button	☐ Touch the [1] ～ [6] key for more than 1.5sec.
Destination	**North America** ・ Europe ・ Australia
Detail	☐ Touch the [1] ～ [6] key in RADIO mode for more than 1.5sec, it will preset the frequency as the memory of the key you touched. ☐ BEEP sounds when memory is confirmed. ☐ The displaying CH number will blink once when memory is confirmed. ☐ It will not work when you touch the key which the preset memory has been received. ☐ The following keys are effective before key OFF.（KEY ON～） ☐ the [VOLUME] key ☐ the [EJECT] key

5-3-7. ☐SCAN

Function	☐ RADIO Station SCAN UP
Operation of button	☐ Touch [SCAN] key （Operaton when key is ON.）
Destination	**North America** ・ Europe ・ Australia
Detail	☐ If you touch the [SCAN] key in RADIO mode, it will start to scan radio station which is possible to receive. ☐ It will start to scan radio stations, which is possible to receive, from the next frequency. ☐ It will be mute while scaning, if there is no station which is possible to receive. ☐ Mute mode will be off and radio sound comes out, when radio station, which is possible to receive, is found. ☐ When radio station, which is possible to receive, is found, it will receive the frequency for 5 seconds, then goes on to scan the next station. ☐ It will scan around for once, and stop when it goes to the frequency that it starts. ☐ It will not scan the beginning station (the ending station). ☐ SCAN mode will be released by following conditions. ☐ When you go to other sourcemode. （The last frequency is the frequency before scan.） ☐ When you switch to other band. （The last frequency is the frequency before scan.） ☐ when you turn ACC / POWER OFF. （The last frequency is the frequency before scan.） ☐ When you turn the [TUNE] key. （Stop at the frequency when key is ON） ☐ When you touch the [>>] or [<<] key. （Stop at the frequency when key is ON） ☐ When you touch the [1] ～ [6] key. （Call the cahannel you touch when key is ON） ☐ When you touch the [SCAN] key. （Scan starts from the frequency when key is ON） ☐ When you touch the [PTY / CAT] key. （Start PTY selection mode from the frequency when key is ON. **Destination for USA**）

5-3-8. □Select / SEEK PTY

Function	□ Select / Seek RADIO PTY Group
Operation of button	□ Touch the [PTY / CAT] key (PTY selection mode ON : Action when Key is ON.) □ Touch the [FOLDER UP] or [FOLDER DOWN] key (PTY UP/DOWN : Action when Key is ON.) □ Touch the [>>] or [<<] key (RTY SEEK : Action when Key is ON.)
Destination	**North America** ▪ Europe ▪ Australia
Detail	■PTY Group Selection Mode □ If you touch the [PTY / CAT] key in FM mode, it will go to PTY Group Selection Mode and display the PTYgroup being selected for 10 seconds. □ It will display「PTY」in PTY Group Selection Mode. □ If you touch the [FOLDER UP] key in PTY Group Selection Mode, PTY group will be 1 step up. □ If you touch the [FOLDER DOWN] key in PTY Group Selection Mode, PTY group will be 1 step down. □ Only the display will change by touching the [FOLDER UP] or [FOLDER DOWN] key, PTY Group will not. (The sound will not change, either) □ Initial PTY Group is「ALL PTY」. ■PTY SEEK □ If you touch the [>>] key in PTY Group Selection Mode, it will start to seek up in selected PTY group. □ If you touch the [<<] key in PTY Group Selection Mode, it will start to seek down in selected PTY group. □ It will keep PTY Group Selection Mode for 10 seconds even if it does not find the station match with the PTY Group. □ PTY GROUP Selection Mode will be released by following conditions. □ If you do no operation to change PTY for 10seconds. □ When you turn ACC / POWER OFF. (The last frequency is the frequency when released.) □ When you go to other source mode. (The last frequency is the frequency when released.) □ When you switch to other BAND. (The last frequency is the frequency when released.) □ Touch the [PTY / CAT] key (Release when key is ON.) ※It will not scan in PTY Group.

5-3-8-1. □PTY List

PTY Code	PTY Name	PTY Code	PTY Name
0	NO PTY	16	R&B
1	NEWS	17	SOFT R&B
2	INFORMATION	18	LANGUAGE
3	SPORTS	19	RELIGIOUS MUSIC
4	TALK	20	RELIGIOUS TALK
5	ROCK	21	PERSONALITY
6	CLASSIC ROCK	22	PUBLIC
7	ADULT HITS	23	COLLEGE
8	SOFT ROCK	24	NONE
9	TOP 40	25	NONE
10	COUNTRY	26	NONE
11	OLDIES	27	NONE
12	SOFT	28	NONE
13	NOSTALGIA	29	WEATHER
14	JAZZ	30	EMERGENCY TEST
15	CLASSICAL	31	EMERGENCY

5-3-8-2. □PTY GROUP List

No	GROUP NAME	PTY Code of Objiect
1	ALL PTY	0～30
2	INFO	1～4
3	ROCK	5、6
4	SOFT	7、8、12
5	TOP 40	9
6	COUNTRY	10
7	OLDIES	11、13
8	JAZZ	14
9	CLASSICAL	15
10	R & B	16、17
11	RELIGIOUS	19、20
12	MISC	18、21～28、30
13	WEATHER	29

※ PTY Code 31 (EMERGENCY) is included by all the PTY groups.
※ All the PTY GROUP NAME are capital letter.

5-3-9. ☐Switch to PS / RT

Function	☐ Display RADIO PS(Program Service Name) and Switch to RT(Radio Text) Display
Operation of button	☐ Touch the TEXT key for less than 0.5sec.
Destination	**North America** ▪ Europe ▪ Australia
Detail	☐ If PS/RT exists, it will switch to display next like following when you touch the TEXT key for less than 0.5sec. ☐ Initial setting is displaying PS. Display PS → Display RT → Display frequency → Display PS ☐ It will display maximum 8 characters of PS. ☐ It will display maximum 64 characters of RT. ☐ When RT is more than 13 characters, touch the TEXT key for less than 0.5sec to switch to next page. ☐ Operation specification of switch page is same to "Send Page" in CD Chapter. ☐ PS displaying will be Right-aligned. ☐ The TEXT key is effective in SCAN mode. ☐ The TEXT key is not effective while adjusting VOLUME / AUDIO / MENU.

5-4. ☐ Operation of RADIO (RDS)

5-4-1. ☐Initial Setting of RADIO (Europe)

Function	☐ Initial Setting of RADIO Frequency / Preset CH
Operation	—
Destination	North America ・ **Europe** ・ Australia
Detail	■Setting Value of RADIO

項目 \ BAND	FM	MW	LW
Frequency Range	87.50 ～ 108.00 MHz	531 ～ 1602 kHz	153 ～ 279 kHz
Receive Step	50 kHz	9 kHz	3 kHz
SEEK Step	100 kHz	9 kHz	3 kHz
Numbers of Band	3BAND	1BAND	1BAND
Initial Value of Band/Frequency	FM1 98.10 MHz	MW 999 kHz	LW 216 kHz
	FM2 87.50 MHz	–	–
	FM3 87.50 MHz	–	–

※ It will not display Preset Number in initial state.

■Initial Value of Preset CH

BAND \ CH	1ch	2ch	3ch	4ch	5ch	6ch
FM1 (MHz)	87.50	90.10	98.10	106.10	108.00	87.50
FM2 (MHz)	87.50	87.50	87.50	87.50	87.50	87.50
FM3 (MHz)	87.50	87.50	87.50	87.50	87.50	87.50
MW (kHz)	531	603	999	1404	1602	531
LW (kHz)	153	162	216	270	279	153

※ It will display Preset CH Number only when you touch the PRESET key .

⇒ It will not display Preset CH Number even if it found the same frequency to preset memory by touching the TUNE or SEEK key.

5-4-2. ☐ Initial Setting of RADIO (Australia)

Function	☐ Initial Setting of RADIO Frequency / Preset CH
Operation	—
Destination	North America ▪ Europe ▪ **Australia**
Detail	■Setting Value of RADIO

項目 \ BAND	FM	AM
Frequency Range	87.5 ～ 108.0 MHz	531 ～ 1629 kHz
Receive Step	100 kHz	9 kHz
SEEK Step	100 kHz	9 kHz
Numbers of Band	3BAND	1BAND
Initial Value of Band/Frequency	FM1 98.1 MHz	AM 999 kHz
	FM2 87.5 MHz	–
	FM3 87.5 MHz	–

※ It will not display Preset Number in initial state.

■Preset CH 初期値

BAND \ CH	1ch	2ch	3ch	4ch	5ch	6ch
FM1 (MHz)	87.5	90.1	98.1	106.1	108.0	87.5
FM2 (MHz)	87.5	87.5	87.5	87.5	87.5	87.5
FM3 (MHz)	87.5	87.5	87.5	87.5	87.5	87.5
AM (kHz)	531	603	999	1404	1629	531

※ It will display Preset CH Number only when you touch the PRESET key .

⇒ It will not display Preset CH Number even if it found the same frequency to preset memory by touching the TUNE or SEEK key.

5-4-3. ☐Call RADIO Mode / Switch to BAND(Europe)

Function	☐ Call RADIO FM/AM Mode & Switch to BAND(Europe)
Operation of button	☐ Touch the [FM / AM] key
Destination	North America ▪ **Europe** ▪ Australia
Detail	☐ If you touch [FM / AM] key in other source mode, it will start toreceive the Frequency of last Band and last memory. ☐ It is also effective when POWER OFF. ☐ ((ST)) indicator will blink while receiving Stereo Broadcast in FM mode. ☐ If you touch the [FM / AM] key in FM/AM mode, it will switch to next Band like following. [FM1] → [FM2] → [FM3] → [MW] → [LM] → [FM1]

5-4-4. ☐ Call RADIO Mode / Switch to BAND (Australia)

Function	☐ Call RADIO FM/AM Mode & Switch to BAND **(Australia)**
Operation of button	☐ Touch the [FM / AM] key
Destination	North America ▪ Europe ▪ **Australia**
Detail	☐ If you touch the [FM / AM] key in other source mode, it will start toreceive the Frequency of last Band and last memory. ☐ It is also effective when POWER OFF. ☐ ((ST)) indicator will blink while receiving Stereo Broadcast in FM mode. ☐ If you touch the [FM / AM] key in FM/AM mode, it will switch to next Band like following. [FM1] → [FM2] → [FM3] → [AM] → [FM1]

5-4-5. □TUNE UP / DOWN

- The same specification as TUNE UP/DOWN in RADIO Chaper (RBDS).

5-4-6. ☐SEEK UP / DOWN

Function	☐ RADIO SEEK UP/DOWN
Operation of button	☐ Touch the [>>] and [<<] key (Action when Key is ON.)
Destination	North America ▪ **Europe** ▪ **Australia**
Detail	☐ Latency time for seeking FM is 6msec, and AM is 30 msec. ☐ Long touch the [RDS] key to switch LO/DX SEEK sensitivity in Europe. ☐ In Australia ensitivity of seeking AM is linked to the illumination, Sensitivity of seeking FM is fixed to DX. (It will be LO SEEK when the illumination is ON, and be DX SEEK when the illumination is OFF) ☐ It will be MUTE while seeking. ☐ If the frequency reaches the maximum when you are seeking up, it will go back to the minimum frequency and go on seeking up. ☐ If the frequency reaches the minimum when you are seeking down, it will go back to the maximum frequency and go on seeking down. ☐ When it goes back to the maximum/minimum frequency, it will keep the next frequency for 500msec then go on seeking. ☐ The last frequency will be updated by seeking when it detected a possible station and stop seeking. ☐ It will also stop at other station besides RDS stations, even RDS is ON. ☐ It will stop only at TI (Traffic information Broadcasters) Station when TI interrupt is ON. ☐ SEEK mode will be released by following conditions. ☐ When received a station which is possible to be received. ☐ When you go to other source mode. (The last frequency is the frequency before seeking.) ☐ When you switch to other band. (The last frequency is the frequency before seeking) ☐ When you turn ACC / POWER OFF. (The last frequency is the frequency before seeking) ☐ When you turn the [TUNE] key. (Stop at the frequency when key is ON) ☐ When you touch the [>>] or [<<] key. (Stop at the frequency when key is ON) ☐ When you touch the [1] ~ [6] key. (Call the cahannel you touch when key is ON) ☐ Touch the [SCAN / AS] key for less than 1.5sec. (Start to scan from CH1 of current Band) ☐ Touch the [SCAN / AS] key for more than 1.5sec. (Start AS from current frequency)

5-4-7. ☐Call PRESET

Function	☐ Call RADIO Preset CH
Operation of button	☐ Touch the [1] ～ [6] key for less than 1.5sec.
Destination	North America ・ **Europe** ・ **Australia**
Detail	■In AM(MW/LW) Mode ☐ If you touch the [1] ～ [6] key for less than 1.5sec, it will call the frequency which is kept as memory of the key you touched. ■In FM Mode ☐ If you touch the [1] ～ [6] key for less than 1.5sec, it will call the PI Code and the frequency which is kept as memory of the key you touched. ■COMMON FM/AM ☐ It will switch the display of CH Number when key is ON. ☐ It will switch the display of frequency when key is OFF. ☐ It will start to receive the frequency of preset CH. ☐ It will not work when you touch the key that its preset memory has been received. ☐ The following keys are effective before key OFF. (KEY ON～Less than 1.5sec KEY OFF) ☐ the [VOLUME] key ☐ the [EJECT] key

5-4-8. ☐Write PRESET

Function	☐ Write RADIO Preset Frequency Memory
Operation of button	☐ Touch the [1] ～ [6] key for more than 1.5sec.
Destination	North America ・ **Europe** ・ **Australia**
Detail	■In AM(MW/LW) Mode ☐ If you touch the [1] ～ [6] key for more than 1.5sec in RADIO Mode, it will keep the receiving frequency as the memory of the key you touched. ■In FM Mode ☐ If you touch the [1] ～ [6] key for more than 1.5sec in RADIO Mode, it will keep the receiving frequency as the memory of the key you touched. ■Common Specification of FM/AM ☐ BEEP will be sound when memory is confirmed. ☐ The displaying CH Number will blink for once when memory is corfirmed. ☐ It will not work when you touch the key that its preset memory has been received. ☐ The following keys are effective before key OFF. (KEY ON～) ☐ the [VOLUME] key ☐ the [EJECT] key

5-4-9. ☐PRESET SCAN

Function	☐ RADIO Preset SCAN UP
Operation of button	☐ Touch the [SCAN / AS] key for more than 1.5sec.
Destination	North America ▪ **Europe** ▪ **Australia**
Detail	☐ If you touch the [SCAN / AS] key in RADIO Mode for less than 1.5sec, it will start preset scan. ☐ It will scan up the frequency of the preset channel memory. ☐ It will start to preset CH1 if it receives the other channels. ☐ It will start to scan from the next channel when it is receiving the preset channel when Preset Scan starts. ☐ I twill not scan the beginning channel when it is receiving the preset channel when Preset Scan starts. (For Example : If it Preset Scan starts when receiving CH2, it will scan like the following. CH3 ⇒ 4 ⇒ 5 ⇒ 6 ⇒ 1. It will release Preset Scan after CH1 and return to receive CH2.) ☐ Preset Scan will scan around for once in a Band and end. ☐ If it finds a station which is possible to receive, it will wait for 0.5sec and release the mute mode, then starts to receive the channel for 10sec. ☐ It will go to next preset channel after 10sec. ☐ If the frequency of the preset channel is impossible to receive, it will skip. ☐ The frequency of preset channel will not be the last frequency even it is possible to receive. ☐ In TI/NEWS interruption mode, it will receive the frequency of station which is possible to receive, regardless of that it is Transportation information Bureau/ NEWS station or not. ☐ It will go on scaning even there is TI/NEWS interruption. ☐ It will go on scaning in background when it is interrupted by a call. ☐ The Channel Number will blink in preset scan mode. ☐ Preset scan begins when seeking, and returns to the frequency before preset scan starts if there is no station possible to receive. (The last frequency is not the frequency before seeking but scaning.) ☐ SCAN mode will be released by following conditions. ☐ When you go to other sourcemode. (The last frequency is the frequency before scan.) ☐ When you switch to other band. (The last frequency is the frequency before scan.) ☐ when you turn ACC / POWER OFF. (The last frequency is the frequency before scan.) ☐ When you turn the [TUNE] key. (Stop at the current preset CH when key is ON.) ☐ When you touch the [>>] or [<<] key. (Stop at the current preset CH when key is ON.) ☐ When you touch the [1] ～ [6] key. (Call the cahannel you touch when key is ON) ☐ When you touch the [SCAN / AS] key. (Stop at the current preset CH when key is ON.)

5-4-10. ☐AUTO STORE

Function	☐ RADIO Frequency Auto Preset Memory
Operation of button	☐ Touch the [SCAN / AS] key for more than 1.5sec.
Destination	North America ・ **Europe** ・ **Australia**
Detail	☐ I f you touch the [SCAN / AS] key in RADIO Mode for more than 1.5sec, it will start Auto Store. ☐ It comes out "BEEP", when it starts Auto Store. ☐ All bands can be Auto Stored in FM. ☐ AS will start to seek up from the next frequency. ☐ Destination for Europe is that it will seek up around for LO sensitivity, if therer are nothing to preset "1-6" memory, it will seek up around again for DX sensitivity. ☐ Destination for Australia is that seeking sensitivity (LO/DX) will be linked to the illumination in AM mode, and DX sensitivity in FM mode.(the same to SEEK). ☐ If the memory of the "1-6" key has been preseted, it will be ended even it has not finished seeking for 2 circles. ☐ If the frequency/PI stationis the same to that in the preset memory, it will not preset again.. ☐ It will display the preset Number which will be preseted. ☐ When a station which is possible to receive, it will keep the frequency as memory. (Keep the memory even it is released.) ☐ If there are channels which cannot be preseted even it has saugh for 2 circles, the memory will be the frequency before Auto Store starts. ☐ It will start to receive CH1 after Aoto Store released even if there is only one station preseted. ☐ If there is no station preseted after Auto Store ends, it will start to receive the frequency of that when Auto Store starts. ☐ It will go on Auto Storeing in background when there a call interrupts in AS Mode. ☐ If TI interruption is ON, it will preset Transportation information Bureau only. ☐ AS mode will be released by following conditions. ☐ When you go to other sourcemode. (The last frequency is the beginning frequency.※1) ☐ When you switch to other band. (The last frequency is the beginning frequency.※1) ☐ When you turn ACC / POWER OFF. (The last frequency is the beginning frequency.※1) ☐ When you turn the [TUNE] key. (Stop at the frequency when key is ON) ☐ When you touch the [>>] or [<<] key. (Stop at the frequency when key is ON) ☐ When you touch the [1] ～ [6] key. (Call the cahannel you touch when key is ON.) ☐ When you touch the [SCAN / AS] key. (Receive the frequency before AS started when key is ON.) ※1 I t will start to receive CH1 even if there is only one station preseted.

5-4-11. □RDS(AF)

Function	□ Switch to RDS (AF)
Operation of button	□ Touch the [RDS] key for less than 1.5sec. (Common for Europe & Australia)
Destination	North America ・ **Europe** ・ **Australia**
Detail	□ Touch the [RDS] key for less than 1.5sec in FM mode, it will switch RDS(AF) ON/OFF. □ The initial setting for Europe is ON. □ The initial setting for Australia is OFF. □ It will select the best one of the staions of the same broadcasting contents, follow the instead frequency automatically, if receiving state becomes worse when RDS is ON. (In other modes except AM (includes MW, LM.) mode.) □ When RDS is ON/OFF, it will display「RDS ON」/「RDS OFF」for 3sec. □ When RDS is ON, REG will returns to the last state. □ When RDS is ON/OFF, RDS indicator will be the following state. (Indicator will be off in AM mode normally.)

RDS Function	Receiving Station	RDS Indicator
OFF	-	OFF
ON	Receiving RDS Station	ON
ON	Unable to Receive RDS Station	BLINK (※)

※ Idicator will be ON but not blink in other mode except FM mode.

□ It will start PI search when RDS station is impossible to receive.
□ It will start PI search around for once in the Band at 15 second interval.
□ It will display「PI SEARCH」while PI searching.

5-4-12. ☐REG

Function	☐ Switch to RADIO REG
Operation of button	☐ Operation in MENU
Destination	North America ・ **Europe** ・ **Australia**
Detail	☐ It is able to switch REG ON/OFF in REG Adjustment Mode in MENU ☐ It will follow the frequency of the same PI (the stations which broadcast the same contents) when REG is ON. ☐ It will follow the frequency of the allied PI (the stations which some parts of broadcasting contents are the same) when REG is OFF.

5-4-13. □TI

Function	□ Switch to RADIO TI Interruption
Operation of button	□ Touch the [TI. / NEWS] key for less than 0.5sec.
Destination	North America ・ **Europe** ・ **Australia**
Detail	□ It will switch TI Interruption ON/OFF if you touch the [TI. / NEWS] key less than 0.5sec in FM mode. □ It will switch to FM Band and TI Interruption will be ON if youch the [TI. / NEWS] key less than 0.5sec in other mode except FM mode or when POWER is OFF. □ Initial setting is OFF. □ It will display「T.I. ON」/「T.I OFF」for 3sec when TI Interruption is ON/OFF. □ It will not display「TI. ON」when you touch the [TI. / NEWS] key for less than 3sec in other mode except FM mode. □ It will become TI Interruption receiving state when radio station starts to traffic information broadcast in TI Interruption mode. □ TI Interruption receiving occurs in other mode except AM mode. □ If it is not receiving traffic information broadcast when you switch TI Interruption ON in FM mode, it will start TP-SEEK. □ It will not start PT-SEEK when you switch TI Interruption Mode ON in other mode except FM mode. □ It will go on TP-Seeking in the same Band until it is released (until a TI station is detected) . □ If you switch the key for less than 0.5sec while TP-Seeking, it will switch TI Interruption OFF and return to the frequency before TP-SEEK starts. □ It able to switch TI Interruption ON/OFF when the last mode is AM mode and current mode is other mode except FMmode. (Background mode will be FM mode.) □ TI/TA indicator and the dot display will be the following state when TI Interrution is ON/OFF. (Indicator is OFF in AM mode normally.)

TI Interruption Function	Receiving Station	TI Indicator State	TA Indicator State	Dot Display
OFF	-	OFF	OFF	-
OFF	Receiving TI station	OFF	ON	-
OFF	TI Broadcasting	OFF	ON	-
ON	-	ON	OFF	-
ON	Receiving TI station	ON	ON	-
ON	TI Broadcasting	ON	ON	Traffic Info

□ It will return to CD Mode after TI Interruption begins and ends in CD Mode.
□ It will remain FM Mode after TI Interruption begins and ends, when you switch TI interruption ON in AM(MW/LW) Mode or POWER OFF Mode.

☐ TI Interruption Mode will be released by the following operations if it starts in FM Mode.

- ☐ Touch the other Source Mode Key. (It will go to other source mode.)
- ☐ Turn the [TUNE] key. (1 Step UP/DOWN)
- ☐ Turn the [>>] or [<<] key (Start to SEEK UP/DOWN)
- ☐ Touch the [1] ～ [6] key for less than 1.5sec. (Call Preset)

※It will write preset if you touch more than 1.5sec, and TI Interrution will not be released.

- ☐ Touch the [TI. / NEWS] key. (TI Interruption reciving released when Key is ON.)
- ☐ Touch the [SCAN / AS] key for less than 1.5sec. (Starts PRESET SCAN)
- ☐ Touch the [SCAN / AS] key for more than 1.5sec. (Starts AS)
- ☐ Touch the [MODE] key of Steering Controller for less than 1.5sec.

※It will be mute if you touch more than 1.5sec, and TI Interrution will not be released.

☐ TI Interruption Mode will be released by the following operations if it starts in other mode except FM Mode. (The other operations are not available.)

- ☐ Touch the [CD / AUX] key. (TI Interruption Mode will be released when Key is ON.)
- ☐ Touch the [TI. / NEWS] key. (TI Interruption Mode will be released when Key is ON.)
- ☐ Touch the [MODE] key of Steering Controller for less than 1.5sec.

※It will be mute if you touch more than 1.5sec, and TI Interrution will not be released.

5-4-14. □NEWS

Function	□ Switch to RADIO NEWS Interruption
Operation of button	□ Touch the [TI. / NEWS] key for more than 0.5sec.
Destination	North America ・ **Europe** ・ **Australia**
Detail	□ It will switch NEWS Interruption ON/OFF when you touch the [TI. / NEWS] key for more than 0.5sec in FM Mode. □ It will switch to FM Band and NEWS Interruption will be ON when you touch the [TI. / NEWS] key for more than 0.5sec in other mode except FM Mode or when POWER is OFF. □ BEEP will be sounded when NEWS Interruption starts. □ Initial setting is OFF. □ It will display「NEWS ON」/「NEWS OFF」for 3sec when NEWS Interruption is ON/OFF. □ It will not display「NEWS ON」when you touch the [TI. / NEWS] key for more than 0.5sec in other mode except FM Mode. □ It will become NEWS Interruption receiving state when radio station starts to news broadcast in NEWS Interruption mode. □ NEWS Interruption receiving occurs in other mode except AM mode. □ NEWS indicator state and dot display will be the following when NEWS Interruption is ON/OFF. (Indicator is off in AM normally.)

NEWS Interruption Function	Receiving Station	NEWS Indicator	Dot Display
OFF	–	OFF	–
ON	–	ON	–
ON	NEWS Broadcasting	ON	NEWS

□ It will return to CD Mode after NEWS Interruption begins and ends in CD Mode.
□ It will remain FM Mode after NEWS Interruption begins and ends, when you switch NEWS interruption ON in AM (MW/LW) Mode or POWER OFF Mode.

□ The operation to release NEWS Interruption is same to TI Interruption.

5-4-15. □ALARM

Function	□ RADIO Alarm Interruption
Operation of button	–
Destination	North America ・ **Europe** ・ **Australia**
Detail	□ Alarm Interruption is always ON. □ It will become emergency broadcast Receiving state when station starts emergency broadcast (PTY=31) in other mode except AM (include MW. LM) Mode. □ Test broadcast (PTY=30) will not interrupt. □ The operation to release ALARM Interruption is same to TI Interruption. ※However, if you touch the [TI. / NEWS] key, it will switch TI/NEWS Interruption ON/OFF but not release ALARM Interruption. ■Priority of Interruption □ When RDS interrupts with other interruption, the priority will be following. TEL ＞ ALARM ＞ TI ＞ NEWS □ It will release the interruption from high priority to low when you touch keys to release interruptions.

5-4-16. ☐Switch to LO / DX (For Europe)

Function	☐ Switch to LOCAL / DX of RADIO SEEK Sensitivity
Operation of button	☐ Touch the RDS key for more than 1.5sec.
Destination	North America ▪ **Europe** ▪ Australia
Detail	☐ It will switch to LOCAL / DX of RADIO SEEK Sensitivity if you touch the RDS key for more than 1.5sec in FM/AM Mode. ☐ It will display「LOCAL ON」、「LOCAL OFF」for 3sec when it switch to LO/DX. ➢ LOCAL ON ⇒ LO Sensitivity ➢ LOCAL OFF ⇒ DX Sensitivity ☐ It will not display「LO」/「DX」while seeking.

5-4-17. ☐Switch to PS

Function	☐ Display RSDIO PS
Operation of button	☐ Touch the TEXT key. (Action when Key is ON..)
Destination	North America ▪ **Europe** ▪ **Australia**
Detail	☐ It will display PS if there is PS data in the receiving station. ☐ It will display maximum 8 characters. ☐ When you touch the TEXT key, it will switch to display frequency and PS if there is PS data. ☐ Initial setting is displaying PS. ☐ It will display PS on Right-aligned. ☐ The TEXT key is effective even in Preset Scan Mode. ☐ The TEXT key is not effective while adjusting VOLUME / AUDIO / MENU.

5-5. □Operation of Satellite Radio(XM)

5-5-1. □Call /switch to XM mode

Function	□ Call /Switch to XM mode
Operation of button	□ Touch [SAT] key
Destination	**North America**
Detail	□ If you touch the [SAT] key when it is in other source mode, it will start to receive the channel signal of last band and last memory of XM. □ It is effective when POWER OFF. □ The XM band will switch to next like the following when you touch [SAT] key in XM mode.。 [XM1] → [XM2] → [XM3] → [XM1] ※ The display will be "SAT" but not "XM". □ When receiving channel signal, it will go to the last mode after displaying the channel No. for 3 seconds. □ Initial setting is BAND1 (XM1) and CHANNEL001 (PREVIEW CHANNEL).

5-5-2. □CH UP / DOWN

Function	□ SAT CHANNEL UP/DOWN
Operation of button	□ Turn up/down the TUNE key
Destination	**North America** ▪ Europe ▪ Australia ▪ 一般
Detail	□ If you turn right the TUNE key in SAT mode, the receiving channel will be one step up. □ If you turn left the TUNE key in SAT mode, the receiving channel will be one step down. □ If you turn right the TUNE key in the last channel, it will go to the first channel. □ If you turn left the TUNE key in the first channel, it will go to the last channel.

5-5-3. ☐ CHANNEL UP/DOWN FOR 10 DIGITS

Function	☐ SAT CHANNEL UP/DOWN FOR 10 DIGITS
Operation of button	☐ Touch the [>>] / [<<] key for more than 0.5sec (the function only works while touching)
Destination	**North America** ▪ Europe ▪ Australia ▪ Common
Detail	☐ If you touch the [>>] key for more than 0.5sec in SAT mode, the receiving channel will be up for 10 digits a second. ☐ If you touch the [<<] key for more than 0.5sec in SAT mode, the receiving channel will be down for 10 digits a second. ☐ If you touch the [>>] key in the last channel, it will go to the first channel. ☐ If you touch the [<<] key in the first channel, it will go to the last channel. ☐ The first digits of channel No. will display as "–" while touching. ☐ After released, the third digits and the second digits will display the number which is displaying, and the first digits will be received from the channel number which is the most possible to receive. ☐ The function will be released by the following operation. ☐ ACC OFF/POWER OFF (The last channel will be the channel when release.) ☐ Release the key.

5-5-4. ☐Category Search Mode

Function	☐ SAT Category Search Mode (Category up/down)
Operation of button	☐ Touch [PTY/CAT] key (Category Search Mode ON: Action when Key is ON) ☐ Touch [UP] & [DOWN] key (Category up/down: Action when Key is ON) ☐ Turn up/down the [TUNE] key (CHANNEL UP/DOWN)
Destination	**North America** ▪ Europe ▪ Australia ▪ Common
Detail	■Category Search Mode ☐ If you touch the "PTY/CAT" key in SAT mode, it will go to Category Search Mode and display the name of the category which is receiving for 10 seconds. ☐ CAT indicator light will be on in Category Search Mode. ☐ The name of the catogory you selected will blink in Category Search Mode. ■Category UP/DOWN ☐ If you touch the "UP" key in Category Search Mode, the category wich is possible to receive will be one step up. ☐ If you touch the "DOWN" key in Category Search Mode, the category wich is possible to receive will be one step down. ☐ Only the display will change by touching "UP"/"DOWN" key, the channel will not. (The sound will not change, either) ☐ If you turn right the "TUNE"key in Category Search Mode, the channel in the category you selected will be up. ☐ If you turn left the "TUNE"key in Category Search Mode, the channel in the category you selected will be down. ☐ When channel is up or down, the sound of signal receiving will be output. ☐ CH000 (RADIO ID) cannot be selected when touching "UP" or "DOWN". ☐ Category Search Mode will be released by the following operation. ☐ **If you do no operation to change category or channel for 10 seconds.** ☐ ACC OFF/POWER OFF (The last channel will be the channel when release.) ☐ If you switch to other source mode. (The last channel will be the channel when release.) ☐ If you switch the BAND. (The last channel will be the channel when release.) ☐ Touch the "PTY/CAT" key. (Release by KEY ON) ☐ Touch the "<<" or ">>" key for more than 0.5sec. (CHANNEL 10 Digits UP/DOWN) ☐ Touch the "1～6" key for less than 1.5sec. (Call the preset channel) ☐ Touch the "1～6" key for more than 1.5sec. (Write the preset channel)

5-5-5. ☐ Call Preset

Function	☐ Call SAT Preset Channel
Operation of button	☐ Touch the"1"～"6" key for less than 1.5sec
Destination	**North America** ▪ Europe ▪ Australia ▪ Common
Detail	☐ If you touch "1"～"6" in SAT mode for less than 1.5sec, it will call the channel which is kept as the memory of each key. ☐ If you call the channel, it will display the number of preset and receiving channel for 3 seconds, and then go to the last display mode. ☐ If the preset channel is being received/has been received, it will not work when you touch the same key. ☐ The following keys will be effective before KEY OFF. (KEY ON～1.5sec KEY OFF) ☐ VOLUME key ☐ EJECT key

5-5-6. ☐ Write Preset

Function	☐ SAT Preset Channel Memory
Operation of button	☐ Touch the"1"～"6" key for more than 1.5sec
Destination	**North America** ▪ Europe ▪ Australia ▪ Common
Detail	☐ If you touch "1"～"6" in SAT mode more than 1.5 sec, the receiving channel will be kept as the memory of the key you touch. ☐ If the memory is confirmed, the preset channel number which is displaying will blink for once. ☐ If the memory is confirmed, it will output the "BEEP" sound. ☐ It will display the number of preset and receiving channel for 3 seconds, and then go to the last display mode. ☐ It is available to keep CH000 (RADIO ID) as preset memory. ☐ The following keys will be effective before KEY OFF. (KEY ON～) ☐ VOLUME key ☐ EJECT key

5-5-7. ☐SCAN

Function	☐ SAT　SAT Channel SCAN
Operation of button	☐ Touch the "SCAN" key (Action when Key is ON)
Destination	**North America** ▪ Europe ▪ Australia ▪ Common
Detail	☐ If you touch "SCAN" key in SAT mode, it will start to scan. ☐ It will scan from the next channel for 5 seconds for each when you start it. ☐ If it finishes scaning the last channel, it will go on to scan from the first channel. ☐ It will scan the channels which are possible for once, and stop at the beginning channel. ☐ It will not scan the beginning channel (the ending channel). ☐ The channel number will blink for every 500ms in scan mode. ☐ If you touch "SCAN"key in Category Search Mode, it will scan in the category you selected. ☐ Scan will be stopped by the following condition. ☐ When you go to other source mode (The last channel will be the channel when release.) ☐ When you switch the BAND (The last channel will be the channel when release.) ☐ ACC OFF/POWER OFF (The last channel will be the channel when release.) ☐ When you turn the"TUNE" key. (CHANNEL UP/DOWN) ☐ When you touch the ">>" or "<<"key for more than 0.5sec ☐ When you touch the"PTY/CAT" key. ☐ scan in usual —KEY ON and Category Search Mode ON + release scan ☐ scan in Category —KEY ON and Category Search Mode OFF + release scan ☐ When you touch the "UP" or "DOWN"key. ☐ scan in usual — OFF ☐ scan in Category — KEY ON and Category UP/DOWN ☐ when you touch the "1"～"6" for less than 1.5sec.(Call the preset memory) ☐ when you touch the "1"～"6" for more than 1.5sec.(write the preset memory) ☐ when you touch the "SCAN" key.(Stop at the channel when KEY is ON)

5-5-8. ☐ Switch the Title

Function	☐ Switch the XM title
Operation of button	☐ Touch the "TEXT" key (operation when KEY ON)
Destination	**North America** ▪ Europe ▪ Australia ▪ Common
Detail	☐ If you touch the "TEXT" key, the title will display like following. ☐ Default setting is displaying the channel number. 「CH NUMBER」 → 「CH NAME」 → 「TITLE」 → 「NAME」 → 「CATEGORY」 → 「CH NUMBER」 ☐ When you switch the title, it will display [CH NUMBER], [CH NAME], [TITLE], [NAME] and [CATEGORY] 3seconds for each, and then display the title. ☐ 10 characters information will be supported. (8&16 characters will be not) ☐ The "TEXT" key will be effective in scan mode. ☐ The "TEXT" key will be not effective in Category Search Mode. ☐ The "TEXT" key will be not effective while displaying RADIO ID. ☐ The "TEXT" key will be not effective while adjusting Volume/Audio/Menu.。

5-5-9. ☐ Display RADIO ID

Function	☐ Display XM RADIO ID
Operation of button	–
Destination	**North America** ▪ Europe ▪ Australia ▪ Common
Detail	☐ If you select CH000, it will display RADIO ID. ☐ It will display "RADIO ID" for 2 seconds and then display ID for 10 seconds and repeat. ☐ If Category Search Mode is ON when it is displaying RADIO ID, the category name will be "――" and blink. ☐ If error occurs when it is displaying RADIO ID, it will go on displaying RADIO ID but not advisory message, even if the advisory message should be displayed for the error. (Priority: RADIO ID > Advisory Message)

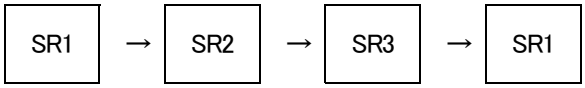
5-5-10. □ Advisory Message List

#	Error Contents	Display Contents	Note
1	Antenna cable is removed from the set.	ANTENNA	For all the channels
2	User password has been changed and cannot receive new code by XM signal. (The channel mapping has been changed.)	UPDATING	It will go to CH001 in 2 seconds.
3	Signal is not enough strong to be received for decoding.	NO SIGNAL	For all the channels
4	It is not effective when it is receiving signal or decoding. (when initial power up.)	LOADING	
5	It is not effective when it is receiving signal or decoding. (When switch channel.)	LOADING	
6	If you select a channel after broadcast ends.	OFF AIR	It will go to the last channel in 2 seconds.
7	SID is not effective.	CH – – – (3″–″)	It will go to CH001 in 2 seconds.
8	The artist's name and title is blank.	– – – – – – (6″–″)	

※The operation of the Note depends on the situation of XM/Sirius-BB.

5-6. ☐ Operation of Satellite Radio (Sirius)

5-6-1. ☐ Call/Switch SR Mode

Function	☐ Call and switch the sirius Mode
Operation of button	☐ Touch the "SAT" key
Destination	**North America** ▪ Europe ▪ Australia ▪ Common
Detail	☐ If you touch the "SAT" key when it is in other source mode, it will start to receive the channel signal of last band and last memory of SR. ☐ It is effective when POWER OFF. ☐ The SR band will switch to next like the following when you touch "SAT" key in SR mode.  ※The display will be "SAT" but not "SR". ☐ When receiving channel signal, it will go to the last mode after displaying the channel No. for 3 seconds. ☐ Initial setting is BAND1 (SR1) and CHANNEL184 (PREVIEW CHANNEL).

5-6-2. □CH UP / DOWN

- The same specification as XM.

5-6-3. ☐ CHANNEL UP/DOWN FOR 10 DIGITS

- The same specification as XM.

5-6-4. ☐ Category Search Mode

- The same specification as XM.

5-6-5. □Call Preset

- The same specification as XM.

5-6-6. □Write Preset

- The same specification as XM.
- But there are some differences as following.

	Changed Point
Detail	□ CH000 and CH255 (RADIO ID) cannot be presetted.

5-6-7. □SCAN

- The same specification as XM.

5-6-8. ☐ Switch the Title

Function	☐ Switch Sirius title
Operation of button	☐ Touch the "TEXT" key for less than 0.5sec.
Destination	**North America** ▪ Europe ▪ Australia ▪ Common
Detail	☐ If you touch the "TEXT" key, the title will display like following. ☐ Initial setting is displaying the channel number. 「CH NUMBER」 → 「CH NAME」 → 「TITLE」 → 「NAME」 → 「CATEGORY」 → 「CH NUMBER」 ☐ When you switch the title, it will display [CH NUMBER],[CH NAME],[TITLE],[NAME] and [CATEGORY] 3seconds for each, and then display the title. ☐ 10 characters information will be supported. (Same as XM. The information more than 10 characters will be truncated) ☐ The "TEXT" key will be effective in scan mode. ☐ The "TEXT" key will be not effective in Category Search Mode. ☐ The "TEXT" key will be effective while displaying RADIO ID. ☐ The "TEXT" key will be not effective while adjusting Volume/Audio/Menu.

5-6-9. ☐ Display RADIO ID

Function	☐ Display RADIO ID
Operation of button	–
Destination	**North America** ▪ Europe ▪ Australia ▪ Common
Detail	☐ If you choose CH000, it will display RADIO ID. ☐ If you choose CH000, it will go to CH255 and display "RADIO ID" for 2 seconds, the upper 8 digits of ID for 5 seconds, and the lower 4 digits of ID for 5 seconds, and repeat. (depend on Sirius-BB) ☐ For the problem of communication with Sirius-BB, the title data of CH255 will be kept as RADIO ID. Therefore, if you do not touch the "TEXT" key to switch to display title, it will not display ID. (It will not display channel number.) ☐ If Category Search Mode is ON when it is displaying RADIO ID, the category name will be "——" and blink.

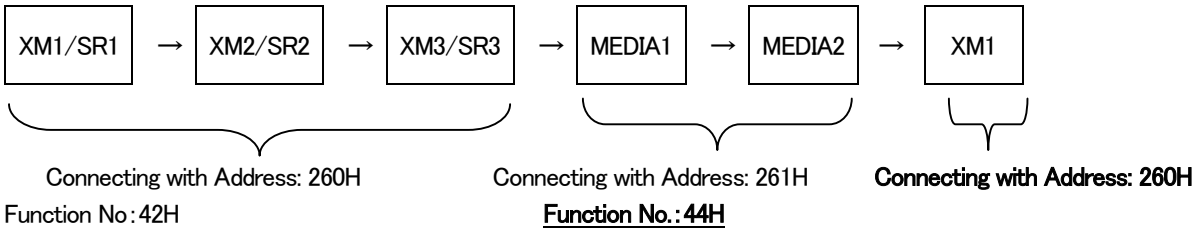
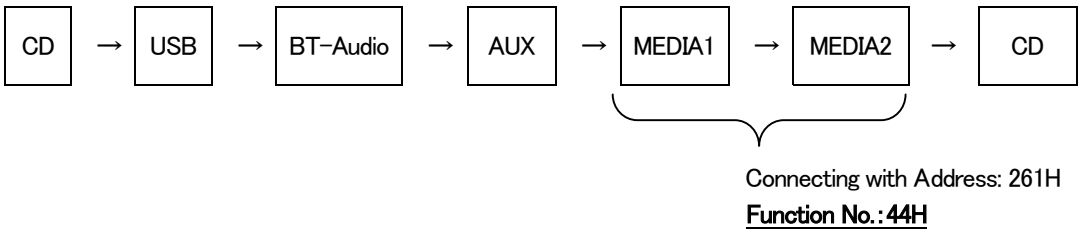
5-6-10. ☐ Advisory Message List

#	Error Contents (formal display)	Display Contents	Note
1	ANTENNA ERROR (ANTENNA)	ANTENNA	
2	Updating signed channel (UPDATING)	UPDATING	
3	Updating channel map (UPDATING)	UPDATING	
4	Requesting for channel/music information (ACQUIRING)	LOADING	
5	Signal is not enough strong to receive (ACQUIRING)	LOADING	
6	Choose unsigned channe (CALL 888-539-SIRI)	CH - - -	
7	Choose unused channel (INVALID CH)	OFF AIR	

※ This specification is equivalent to XM's.

5-7. ☐ Media HUB Operation

5-7-1. ☐ Call /Switch Media HUB Mode

Function	☐ Call /Switch Media HUB Mode
Operation of button	☐ Touch the "SAT" key (For North America) ☐ Touch the "CD/AUX" key (For others except North America)
Destination	**North America ・ Europe ・ Australia**
Detail	**For North America** ☐ If you touch the "SAT" (For North America) key when it is in other source mode, it will start to receive the channel signal of last band and last memory of XM/MEDIA. ☐ If you touch the "SAT" (For North America) key in Media HUB mode, it will switch to next like following.。  ※When XM/SR1-3 is chosen, it will display SAT1-3. **For others except North America** ☐ If you touch the "CD/AUX" (For others except North America) key when it is in AUX mode, it will start to receive the channel signal of last band and last memory of XM/MEDIA. ☐ If you touch the "CD/AUX" (For others except North America) key when it is in CD/USB/BT-Audio/AUX/MediaHUB mode, it will switch to next like following.  **Common Specification** ☐ It is effective when POWER OFF. ☐ When you select MEDIA1/ MEDIA2, it will display MEDIA1/ MEDIA2. ☐ When receiving channel signal, it will go to the last mode after displaying the channel No. for 3 seconds. ☐ The pass key to connect BT Audio is "0000".

5-7-2. ☐Track UP/DOWN

Function	☐ Track UP/DOWN
Operation of button	☐ Turn the TUNE key
Destination	**North America ・ Europe ・ Australia**
Detail	☐ If you turn right the TUNE key in Media HUB Mode, it will track up. ☐ If you turn left the TUNE key in Media HUB Mode, it will track down. ☐ It will display 001 as CH Number normally.

5-7-3. ☐FF/FB

Function	☐ FF/REW
Operation of button	☐ Touch the [>>] / [<<] key for more than 0.5sec. (Operate only when touching.)
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will wind forward from the playing track if you touch the [>>] key for more than 0.5sec in Media HUBMode. ☐ It will fast backward from the playing track if you touch the [<<] key for more than 0.5sec in Media HUBMode. ☐ FF/FB will be released by following Operation. ☐ When you turn ACC / POWER OF. ☐ When you release the key.

5-7-4. ☐Browsing Mode

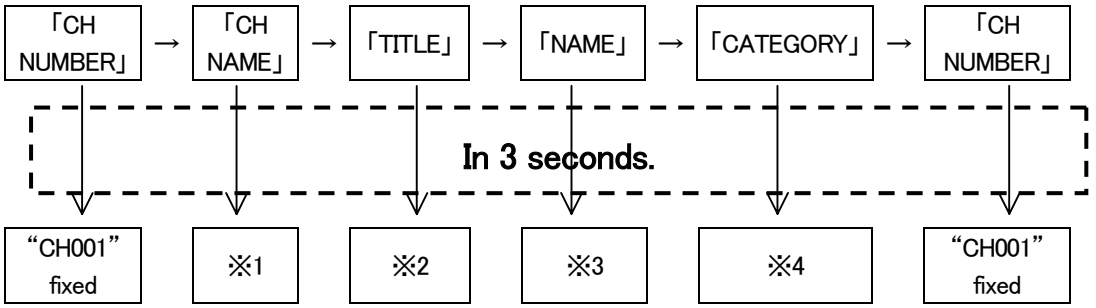
Function	☐ Browsing Mode (Presetting Button)
Operation of button	☐ Touch the PTY / CAT key (For North America), the RDS key. (For Europe & Australia) (CategorySearch Mode ON: Operate when key is ON.) ☐ Touch the UP and DOWN key. (Category UP/DOWN : Operate when key is ON.)
Destination	**North America ・ Europe ・ Australia**
Detail	**■Browsing Mode** ☐ **If you touch the PTY / CAT key in MediaHub Mode, it will go to Browsing Mode, and display the Browsing Mode name for selected P.ch for 5sec.** ☐ CAT indicator will be ON in Browsing Mode. ■List UP/DOWN ☐ If you touch the UP key in Browsing Mode, the list for selected P.ch will be up. ☐ If you touch the DOWN key in Browsing Mode, the list for selected P.ch will be down. ☐ If you touch the UP or DOWN key, it will start to play the tracks of the selected list in 2 sec. It will keep Browsing Mode. ☐ Browsing Mode will be released by following operation. ☐ If you do no operation to change the list for 5sec. ☐ Touch the PTY / CAT key (For **North America**) or RDS key (for **Europe & Australia**). (Release when KEY is ON.) ☐ Turn ACC / POWER OFF. ☐ Switch to other mode. ☐ Switch to Band.

5-7-5. ☐ Select Operation Mode

Function	☐ Select Operation Mode
Operation of button	☐ Touch the [1] ～ [6] key.
Destination	**North America ・ Europe ・ Australia**
Detail	☐ If you touch the [1] ～ [6] key in MediaHub Mode, it will display the Operation Mode for the key. (It will do the same action no matter long touch or not.) ・When connect to iPod ☐ 1:Settings(Shuffle/Repeat) –> Display : SETTINGS ☐ 2:Playlist Select –> Display : PLAYLISTS ☐ 3:Artist Select –> Display : ARTISTS ☐ 4:Album Select –> Display : ALBUMS ☐ 5:Podcast Select –> Display : PODCASTS ☐ 6:Audiobook Select –> Display : AUDIOBOOKS ・When connect to USB Storage ☐ 1:Settings(Shuffle/Repeat) –> Display : SETTINGS ☐ 2～6:Folder Select –> Display : FOLDERS ・When connect to BT Audio ☐ 1～6:Display the connection device name. ☐ **After displaying operation mode for 3sec when call the CH, it will display the title name if you touch the [TEXT] key. (Display CH Number.)** ☐ The following key will be effective while KEY is ON. (From Key ON to less than 1.5sec. Key OFF.) ☐ the [VOLUME] key ☐ the [EJECT] key

5-7-6. □Switch to TITLE

Function	□ Switch to TITLE
Operation of button	□ Touch the [TEXT] key
Destination	**North America ・ Europe ・ Australia**
Detail	□ If you touch the [TEXT] key each time in MediaHub Mode, it will switch to next title like following. □ Initial setting is displaying "CH NUMBER". □ If you switch to next title, it will display「CH NUMBER」/「CH NAME」/「TITLE」/「NAME」/「CATEGORY」 for 3sec, then display the title.



※1 When it is in MEDIA1 Mode,
It will display「USB DEVICE**」 if it is not connected with a device.
It will display「USB iPod****」 if it is connected with a iPod.
It will display「USB MEMORY**」 if it is connected with a USB.
When it is in MEDIA2 Mode,、
It will display「BT AUDIO****」 if it is not connected with a device.
(The display may be different in fact depending on MediaHub.)

※2 It will display the song name when you select P.ch1～4, display podcast when you select P.ch5, and display audiobook name when you select P.ch6.
※3 It will display the information of artist and album when you select P.ch1～4, display podcast when you select P.ch5, and display the information of author when you select P.ch6.
※4 It will display (Such as Shuffle/Repeat, PLAYLIST MODE) the operatin name.
※2～4 It will display「DETACHED****」 when it is not connected with a device, or display「ATTACHED****」 when it is connected with a device for 3 seconds, and then display as shown in the above for selected P.ch.

5-8. ☐ Operation of DISC

5-8-1. ☐CD LOADING

Function	☐ CD Loading
Operation of button	☐ Insert CD Disc
Destination	North America ・ Europe ・ Australia
Detail	☐ It will start CD LOADING, if you insert a CD disk when there is no CD in it. ☐ It will display “CD LOADING” while CD loading. ☐ It will display P-TIME and start to play from the first track. ☐ It is also effective when POWER is OFF. ☐ It is not effective when ACC is OFF basically. (It may be available right after BACKUP EJECT, and so on.)

5-8-2. ☐ EJECT CD

Function	☐ EJECT CD
Operation of button	☐ Touch the [EJECT] key
Destination	**North America ・ Europe ・ Australia**
Detail	☐ If you touch the [EJECT] key when there is a CD in, it will eject the CD. ☐ It will keep CD Mode even if it ejects the CD in CD Mode. ☐ It will keep the current mode when it eject the CD in other mode except CD Mode. ☐ It will go on ejecting even if ACC/POWER is turned off while ejecting. ☐ It will go on ejecting even if it goes to other mode while ejecting. ☐ If you leave the CD on reload for 15 seconds after it rejects, it will pull in the CD again. ☐ It will start to play from the first track after reloads and keep the current mode. ☐ It will eject again for twice if it fails ejecting for it is caught or something else.

5-8-3. ☐ Playback Object (CD / USB)

Function	☐ The Following Data is Able to be Playbacked
Operation of button	― ― ―
Destination	North America ・ Europe ・ Australia
Detail	☐ Maximum number of folders/files

USB Memory	Maximum number of folders	512
	Maximum number of files in a folder	255
	Maximum number of files	130560
CD	Maximum number of folders	255
	Maximum number of files in a folder	255
	Maximum number of files	510

※ Maximum 8- layer (include ROOT) Folder is available.

※ In CD Mode, the number of total folders (include ROOT Folder) and total Tracks should be less than 512.

☐ Media that is able to be played

☐DISCMedia

・Format: Based on ISO9660 LEVEL1,2(MODE1,2 Form1)

☐USB Memory (Mass Storage)

・USB Meomory of Mass Storage Class

・USB Memory that has HUB Class is unable to be played

・USB Memory of ATAP Subclass is unable tobe played

☐iPod

iPod	5G	○
	5.5G	○
	classic 1G	○
	classic 2G	○
	nano 1G	×※1
	nano 2G	○
	nano 3G	○
	nano 4G	○
	touch 1G	○
	touch 2G	○
iPhone	1G(GSM)	○※2
	3G	○※2
	3G S	Will be supported in schedule

※ 1: It may burn in charging for the bug of iPod hardware. It will not be the subject.

※ 2: There are too many bugs of F/W of iPod. Something that depends on those bugs becomes limitations.

☐ Playback Object Files (CD / USB)

MPS	Based on Layer3 of MPEG 1, 2 & 2.5
	Sampling Rate (kHz) : 48,44.1,32,24,22.05,16,12,11.025,8
	Bit Rate (kbps) : 8～320
	Variable Bit Rate Supported
	ID3 Tag (ver1.x,ver2.x)
WMA	Based on Windows Media Audio9
	Bit Rate (kbps) : 32～192
	Unable to Playback DRM Protected Files
AAC	MPEG4 AAC (Based on ISO/IEC 14496-12 : 2003 + iTune Meta-data Specification)
	Sampling Rate (kHz) : 48,44.1,32,24,22.05,16,12,11.025,8
	Bit Rate (kbps) : 8～320
	Number of Channels : 1～2ch

※ Copyright protected files are not able to be play.

※ It does not support Lossless, Professional and Voice of WMA9.

5-8-4. ☐Switch to CD Mode

Function	☐ Switch to CD Mode
Operation of button	☐ Touch the [CD / AUX] key （Action when Key is ON.）
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will go to CD Mode if you touch the [CD / AUX] key in other mode except CD Mode. ☐ It will also go to CD Mode when disk roading. ☐ It is also effective when POWER is OFF. ☐ It will switch to next mode like following if you touch the [CD / AUX] key in CD Mode. [CD] → [USB(iPod)] → [BT Audio] → [AUX] → [MediaHub] → [CD] → ・・・・ ※ For North America Destination, MediaHub Mode is able to be selected by touching the [SAT] key. ☐ It will resume playing whe you switch to CD Mode. （RPT/RDM Setting will be kept.）

5-8-5. ☐Playback / Pause (CD / USB)

Function	☐Playback / Pause the Music
Operation of button	☐Steering Controller Operation Only ☐Refer to Steering Controller Operation Specification
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will be paused if you touch to pause while playing music. ☐ It will fade out and become mute, then pause. ☐ It will display MUTE when pauses. (Refer to Display Specification) ☐ It will fade in when returns to play mode from pause mode. ☐ It will fade in from where it paused. ☐ The volume adjustment while fading out/in is based on the current (fading out/in) volume value. Then the fade result will not effect on the volume, and the volume value you adjustedwill be set ☐ It is able to set volume value from "VOL 00" if you adjust the volume when it is in MUTE. ☐ The operation of FF / FB, Track(Folder) UP / DOWN will be not available in PAUSE Mode. ☐ Pause Mode will be released by the following operation. ☐ When you set volume. ☐ When you switch to other mode and return. (Be released when return to the mode) ☐ ACC OFF / ON, BackUp OFF / ON ■ When playing CD ☐ The Pause Function stops disk rotating in fact. ☐ It will fade in after Pause Mode released, but it takes time before the sound comes out because it starts to rotate the disk. ■ When playing USB (MSC) ☐ It is same to CD Mode basically. ※ There is no operation to stop rotating for the USB is not a disk. ■ When playing USB (iPod) ☐ Make iPod PAUSE. ☐ It will play from where iPod kept, when Pause Mode released. ※ It is an anxiety that the sound may not come out even if it treturn to PLAY Mode. It may be difficult to feel the effection of fading in, for it cannot detect if sound comes out from the side spesker or not.

5-8-6. ☐TRACK UP / DOWN

Function	☐ CD の TRACK UP/DOWN
Operation of button	☐ Turn the TUNE key
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will go to next track if you turn right the TUNE key in CD Mode. ☐ It will play from the beginning of current track if you turn left the TUNE key in CD Mode. ☐ It will go to previous track if you turn TUNE the key in 1sec after operation for changing track. ☐ The operation of TRACK UP/DOWN is not effective while DISC LOADING or READING. ■ When playing CD-DA ☐ It will go to the first track in the same disk if you track UP when it is playing the last track in the disk. ☐ It will go to the last track in the same disk if you track DOWN when it is playing the first track in the disk. (When it has played for less than 1sec.) ■ When playing DISC MP3/WMA/AAC ☐ It will go to the first track in the same folder if you track UP when it is playing the last track in the folder. ☐ It will go to the last track in the same disk if you track DOWN when it is playing the first track in the disk. (When it has played for less than 1sec.)

5-8-7. □FOLDER UP / DOWN (DISC MP3/WMA/AAC)

Function	□ CD の FOLDER UP/DOWN (DISC MP3/WMA/AAC)
Operation of button	□ Touch the UP or DOWN key. (Action when Key is ON) □ The Operation of the UP or DOWN key of Steering Controller refers to Steering Controller Specification.
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will go to the next folder of current folder, if you touch the UP key in CD(DISC MP3/WMA/AAC) Mode. □ It will go to the previours folder of current folder, if you touch the DOWN key in CD(DISC MP3/WMA/AAC) Mode. □ It will go to the first folder if you touch the UP key when current folder is the last. □ It will go to the last folder if you touch the DOWN key when current folder is the first. □ The operation of FOLDER UP/DOWN is not effective while DISC LOADING or READING. □ Long touch of FOLDER UP/DOWN is not effective.

5-8-8. ☐FF / FB

Function	☐ CD FF/FB
Operation of button	☐ Touch the [>>] or [<<] key for more than 0.5sec （Action only when touching）
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will play fast foreward if you touch the [>>] key for more than 0.5sec in CD Mode. ☐ It will play fast backward if you touch the [<<] key for more than 0.5sec in CD Mode. ☐ BEEP occurs when you touch the [>>] or [<<] key for more than 0.5sec. ☐ It will display P-TIME when playing fast FF/FB. ☐ It will go to the beginning of the next track and keep playing FF when it comes to the end of the track. ☐ It will go to the end of the previours track and keep playing FB when it comes to the beginning of the track. ■ When playing CD-DA ☐ The speed will be 3 times in the beginning 3 seconds, and then it will up to 10 times when playing FF/FB. ☐ It will release FF Mode when it comes to the end of the last track in the disk,● and play normally. ☐ It will release FB Mode when it comes to the beginning of the first track in the disk, and play normally. ☐ Sound comes out when playing FF/FB. ■ When playing DISC MP3/WMA/AAC ☐ The speed will be 10 times (fixed) when playing FF/FB. (However, the real speed depends on Bit rate.) ☐ It will release FF Mode when it comes to the end of the last track in the folder, and go to the first track of the next folder and play normally. ☐ It will release FF Mode when it comes to the end of the last track of the last folder in the disk, and go to the first track of the first folder in the same disk and play normally. ☐ It will release FB Mode when it comes to the beginning of the first track in the folder, and play normally. ☐ Sound comes out when playing FF/FB. ☐ FF/FB Mode will be released by following conditions. ☐ When you release the key. ☐ When it comes to the first track in the disk. ☐ When it comes to the first track in the folde. （Only for DISC MP3/WMA/AAC Mode） ☐ When you turn ACC / POWER OFF. ☐ When you EJECT（CD） or DISCONNECT(USB).

5-8-9. □RPT

Function	□ Repeat Mode of CD
Operation of button	□ Touch the [RPT / RDM] key for less than 0.5sec.
Destination	**North America ・ Europe ・ Australia**
Detail	■ When playing CD-DA □ Repeat Mode will switch to next like following, if you touch the [RPT / RDM] key for less than 0.5sec. REPEAT OFF → TRACK REPEAT → REPEAT OFF ■ When playing DISCMP3/WMA/AAC □ Repeat Mode will switch to next like following, if you touch the [RPT / RDM] key for less than 0.5sec. REPEAT OFF → TRACK REPEAT → FOLDER REPEAT → REPEAT OFF □ Initial Mode is OFF. □ It will display repeat mode name for 3sec when you switch to a repeat mode, then displays P-TIME. It will return to the last display. □ RPT indicator will be on in repeat mode. □ It will keep the repeat mode even if you turn ACC/POWER OFF, or switch to other source mode. □ RPT Mode will be released by the following operation. □ Touch the [SCAN] key. (Key is ON and Scan Mode is ON.) □ Touch the [RPT / RDM] key for less than 0.5sec in TRACK RPT Mode.(Only CD-DA : Release RPT Mode) □ Touch the [RPT / RDM] key in FOLDER RPT Mode for less than 0.5sec. (Only MP3/WMA/AAC : Release RPT Mode) □ Touch the [RPT / RDM] key for less than 0.5sec. (RDM :ON) □ EJECT the CD.

5-8-10. □RDM

Function	□ CD RDM Mode
Operation of button	□ Touch the [RPT / RDM] key for more than 0.5sec.
Destination	**North America ・ Europe ・ Australia**
Detail	■ When playing CD-DA □ It will switch to next mode like the following if you touch the [RPT / RDM] key for more than 0.5sec. [RANDOM OFF] → [ALL RANDOM] → [RANDOM OFF] ■ When playing DISC MP3/WMA/AAC □ It will switch to next mode like the following if you touch the [RPT / RDM] key for more than 0.5sec. [RANDOM OFF] → [FOLDER RANDOM] → [ALL RANDOM] → [RANDOM OFF] □ Initial setting is OFF. □ BEEP sounds when you swtich the Mode. □ If you switch RDM modes, it will display the RDM Mode Name for 3sec, then return to the last display mode. □ If it has not got the title, it will display P-TIME until it gets the title. □ RDM indicator is ON in RDM Mode. □ It will keep RDM Mode setting even if you turn ACC/POWER OFF or go to other source mode. □ RDM Mode will be released by following operations. □ Touch the [UP] or [DOWN] key. (Only MP3/WMA/AAC: FOLDER UP/DOWN (Steering Controller is OK, too)) □ Touch the [SCAN] key. (Scan Mode is ON when Key is ON.) □ Touch the [RPT / RDM] key for less than 0.5sec. (RPT Mode is ON) □ Touch the [RPT / RDM] key for more than 0.5sec in all the RDM Modes. (Release RDM Mode) □ EJECT the CD.

5-8-11. □ RPT/RDM Playlist of Track Transition

5-8-11-1. □TRACK RPT (CD-DA,)

RPT Modes	Operation	#	Item/State	Specification
TRACK RPT	Playback normally in RPT Mode	1	Playback Method	□Repeat the current track
		2	When it goes to the end of the track	□Go to the beginning of the same track □Go on repeating
	TRACK UP	1	Track UP	□Go to the next track □Go on repeating
		2	Track UP when it is the last track	□Go to the first track □Go on repeating
	TRACK DOWN	1	Track DOWN (playing for more than 1sec)	□Go to the beginning of the same track □Go on repeating
		2	Track DOWN (playing for less than 1sec)	□Go to the previours track □Go on repeating
		3	Track DOWN when it is the first track (playing for less than 1sec)	□Go to the last track □Go on repeating
	FF	1	Play FF until it reaches the end	□Go to the beginning of the same track □Release FF Mode □Go on repeating
	FB	1	Play FB until it reaches the beginning	□Go to the beginning of the same track □Release FB Mode □Go on repeating

5-8-11-2. □ALL RDM(CD-DA)

RDM Mode	Operation	#	Item/State	Specification
ALL RDM	Playback normally in RDM Mode	1	RDM extraction Method	□Playback the track extracted from all the tracks in media by RDM
		2	When it goes to the end of current track	□Extract the next track from all the tracks in media by RDM □Go on RDM playing
	TRACK UP	1	Track UP	□Extract the next track from all the tracks in media by RDM □Go on RDM playing
	TRACK DOWN	1	Track DOWN	□Go to the beginning of the same track □No track transition □Go on RDM playing
	FF	1	Play FF until it reaches the end	□Extract the next track from all the tracks in media by RDM □Release FF Mode □Go on RDM playing
	FB	1	Play FB until it reaches the beginning	□Go to the beginning of the same track □Release FB Mode □Go on RDM playing

5-8-11-3. □TRACK RPT (DISC MP3/WMA/AAC)

RPT Mode	Operation	#	Item/State	Specifiction
TRACK RPT	Playback normally in RPT Mode	1	Repeat Method	□Repeat the current track
		2	When it goes to the end of the track	□Go to the beginning of the same track □Go on repeating
	TRACK UP	1	Track UP	□Go to the next track □Go on repeating
		2	Track UP when it is the last trackin the folder	□Go to the first track in the same folder □Go on repeating
	TRACK DOWN	1	Track DOWN (playing for more than 1sec)	□Go to the beginning of the same track □Go on repeating
		2	Track DOWN (playing for less than 1sec)	□Go to the previours track □Go on repeating
		3	Track DOWN when it is the first track in the folder(playing for less than 1sec)	□Go to the last track in the same folder □Go on repeating
	FOLDER UP	1	Folder UP	□Go to the first track of the next folder □Go on repeating
	FOLDER DOWN	1	Folder DOWN	□o to the first track of the previours folder □Go on repeating
	FF	1	Play FF until it reaches the end	□Go to the beginning of the same track □Release FF Mode □Go on repeating
	FB	1	Play FB until it reaches the beginning	□Release FB Mode □Go on repeating

5-8-11-4. □FOLDER RPT (DISC MP3/WMA/AAC)

RPT Mode	Operation	#	Item/State	Specification
FOLDER RPT	Playback normally in RPT Mode	1	Repeat Method	□Repeat the tracks in current folder
		2	When it goes to the last track in thefolder	□Go to the first track in the same folder □Go on repeating
	TRACK UP	1	Track UP	□Go to the next track in the same folder □Go on repeating
		2	Track up when it is the last track in the folder	□Go to the first track in the same folder □Go on repeating
	TRACK DOWN	1	Track DOWN (playing for more than 1sec)	□Go to the beginning of current track □Go on repeating
		2	Track DOWN (playing for less than 1sec)	□Go to the previours track □Go on repeating
		3	Track down when it is the first trackin the folder (playing for less than 1sec)	□Go to the last track in the same folder □Go on repeating
	FOLDER UP	1	FOLDER UP	□Go to the first track of the next folder □Go on repeating
	FOLDER DOWN	1	FOLDER DOWN	□Go to the first track of the previours folder □Go on repeating
	FF	1	Play FF until it reaches the end	□Go to the next track □Keep FF Mode □Go on repeating
		2	Play FF until it reaches the end of the last track in the folder.	□Go to the first track in the same folder □Release FF Mode □Go on repeating
	FB	1	Play FB until it reaches the beginning	□Go to the previours track □Keep FB Mode □Go on repeating
		2	Play FB until it reaches the beginning of the first track in the folder	□Release FB Mode □Go on repeating

5-8-11-5. □FOLDER RDM (DISC MP3/WMA/AAC)

RDM Mode	Operation	#	Item/State	Specification
FOLDER RDM	Playback normally in RDM Mode	1	RDM extraction Method	□Playback the track extracted from all the tracks in the folder by RDM
		2	When it goes to the end of the track	□Extract the next track from all the tracks in the folder by RDM □Go on RDM playing
		3	When it goes to the end of the last track in the folder (The last track in RDM)	□Go to the next folder □Extract the track from all the tracks in the next folder by RDM □Go on RDM playing
	TRACK UP	1	Track UP	□Extract the next track from the same folderby RDM □Go on RDM playing
		2	Track UP when it is the last track in the folder (The last track in RDM)	□Extract the next track from the same folderby RDM (RDM the folder again) □Go on RDM playing
	TRACK DOWN	1	Track DOWN	□Go to the beginning of the same track □Go on RDM playing
	FOLDER UP	1	Folder UP	□Release RDM Mode □Playback the first track of the next folder normally
	FOLDER DOWN	1	Folder DOWN	□Release RDM Mode □ Playback the first track of the previours folder normally
	FF	1	Play FF until it reaches the end	□ Extract the next track by RDM □Keep FF Mode □Go on RDM playing
		2	Play FF until it reaches the end of the last track in the folder (The last track in RDM)	□Extract the next track from the same folderby RDM (RDM the folder again) □Keep FF Mode □Go on RDM playing
	FB	1	Play FB until it reaches the beginning	□Playback from the beginning of the same track □Release FB Mode □Go on RDM playing

5-8-11-6. □ALL RDM(DISC MP3/WMA/AAC)

RDM Mode	Operation	#	Item/State	Specification
ALL RDM	Playback normally in RDM Mode	1	RDM extraction Method	□Plackback the track extracted from all the tracks in media by RDM ※ It will not play the same track continued, but may play again when the next ends because it does not caculate all the folders in media, just extracts the next track each time in a simple way.
		2	When it goes to the end of the track	□Extract the next track from media by RDM □Go on RDM playing
	TRACK UP	1	Track UP	□Extract the next track from media by RDM □Go on RDM playing
	TRACK DOWN	1	Track DOWN	□Go to the beginning of current track □No track transition □Go on RDM playing
	FOLDER UP	1	Folder UP	□Release RDM Mode □Playback the first tracck of the next folder normally
	FOLDER DOWN	1	Folder DOWN	□Release RDM Mode □Playback the first tracck of the previours folder normally
	FF	1	Play FF until it reaches the end	□Extract the next track media by RDM □Keep FF Mode □Go on RDM playing
	FB	1	Play FB until it reaches the beginning	□Playback from the beginning of the same track □Release FB Mode □Go on RDM playing

5-8-12. ☐SCAN

Function	☐ CD Scan Mode
Operation of button	☐ Touch the [SCAN] key (Action when Key is ON)
Destination	**North America ・ Europe ・ Australia**
Detail	■ When playing CD-DA ☐ It will switch to next scan mode like following if you touch the [SCAN] key each time. ☐ It will play each track in the disk for 10sec in scan mode. ☐ It will go to the first track and keep the scan mode when it finishes playing the last track in the disk in scan mode. [SCAN OFF] → [DISC SCAN] → [SCAN OFF] ■ When playing DISC MP3/WMA/AAC ☐ It will switch to next scan mode like following if you touch the [SCAN] key each time. ☐ It will start to play each track in the folder for 10sec from the next track when you switch to FOLDER SCAN Mode. ☐ It will go to the first track and keep the scan mode when it finishes playing the last track in the folder in FOLDER SCAN Mode. [SCAN OFF] → [FOLDER SCAN] → [SCAN OFF] ☐ Initial setting is OFF. ☐ It will display the SCAN Mode name for 3sec, then display P-TIME if you switch to scan mode. ☐ It will scan from the next track to the track when you operate the folder. ☐ It will scan around once in the DISK/FOLDER, and stop when it goes to the track before scan starts. ☐ SCAN Mode will be released by following operations. ☐ Turn ACC/POWER OFF. ☐ Switch to other source mode. ☐ Turn the [TUNE] key. (TRACK UP/DOWN) ☐ Touch the [>>] or [<<] keyfor more than 0.5sec. (FF/FB) ☐ Touch the [UP] or [DOWN] key. (Only DISC MP3/WMA/AAC : FOLDER UP/DOWN) ☐ Touch [RPT / RDM] key for less than 0.5sec. (RPT Mode ON) ☐ Touch the [RPT / RDM] key for more than 0.5sec. (RDM Mode ON) ☐ Touch the [SCAN] key. (SCAN Mode relleased when Key is ON)

5-8-12-1. □DISC SCAN (CD-DA)

SCAN Mode	Operation	#	Item/State	Specification
DISC SCAN	Playback normally in Scan Mode	1	SCAN	□Playback each track for 10sec from the next track. □Go to the first track of the DISC if current track is the last.
		2	When finishes playing for 10sec.	□Playback the next track for 10sec. □Go to the first track of the DISC if current track is the last. □Keep SCAN Mode.
		3	When returns to the track when SCAN begins	□Playback normally. □Release SCAN Mode
	TRACK UP	1	Track UP	□ Playback the next track normally. □Go to the first track of the DISC if current track is the last. □Release SCAN Mode
	TRACK DOWN	1	Track DOWN	□Go back to the beginning of the same track. □Release SCAN Mode
	FF	1	Play FF	□Play FF. □Release SCAN Mode
	FB	1	Play FB	□Play FB. □Release SCAN Mode

5-8-12-2. □FOLDER SCAN (DISC MP3/WMA/AAC)

SCAN Mode	Operation	#	Item/State	Specification
FOLDER SCAN	Playback normally in Scan Mode	1	SCAN	□Playback each track for 10sec from the next track. □Go to the first track of the FOLDER if current track is the last.
		2	When finishes playing for 10sec.	□Playback the next track for 10sec. □Go to the first track of the FOLDER if current track is the last. □Keep SCAN Mode.
		3	When returns to the track when SCAN begins	□Playback normally. □Release SCAN Mode
	TRACK UP	1	Track UP	□Playback the next track. □Go to the first track of the FOLDER if current track is the last. □Release SCAN Mode
	TRACK DOWN	1	Track DOWN	□Go to the beginning of the same track. □Release SCAN Mode
	FOLDER UP	1	Folder UP	□Playback the first track of the next folder normally □Release SCAN Mode
	FOLDER DOWN	1	Folder DOWN	□Playback the first track of the previours folder normally □Release SCAN Mode
	FF	1	Play FF	□Play FF □Release SCAN Mode
	FB	1	Play FB	□Play FB □Release SCAN Mode

5-8-13. ☐ Switch to TITLE （CD/USB）

Function	☐ Switch to TITLE （CD/USB）
Operation of button	☐ Touch the TEXT key for less than 0.5
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will switch to next title mode like following if you touch the TEXT key for less than 0.5sec in CD Mode. ☐ Initial setting is displaying P-TIME. ☐ It will go to display the last mode when connects next time even when ACC(POWER) OFF/ON, NO DISC/NO DEVICE. ☐ It will display the mode name for 3sec then display the title if you switch to Displaying TITLE Mode. ☐ It will display [NO TITLE] if there is no title. ☐ The TEXT key is effective in every trick play mode. ☐ The TEXT key is not effective when displaying VOLUME / AUDIO / MENU / iPod LIST screen. ☐ It will keep the last display mode for each media mode.(Such as display mode of ARTIST TITLE, ALBUM TITLE.) ■ When displaying CD-DA ☐ It will switch to next title mode like following no matter whether there is CD-TEXT or not when playing CD-DA. P-TIME → DISC TITLE → ARTIST TITLE → TRACK TITLE → P-TIME ☐ It will display TRACK ARTIST for ARTIST TITLE, if there is no TRACK ARTIST it display DISC ARTIST instead. It willdisplay [NO TITLE] when there is neither TRACK ARTIST nor DISC ARTIST. ■ When playing DISC/MSC MP3/WMA/AAC ☐ It will switch to next title display like following when playing DISC/MSC MP3/WMA/AAC. ☐ It will display [ROOT] for folder name if you select ROOT folder (the top layer). ☐ It will also display the extension when displys FILE TITLE. P-TIME → FOLDER TITLE → FILE TITLE → P-TIME ■ When playing iPod ☐ It will display the information of the track playing now. ☐ It will display the conent which is got from iPod. P-TIME → ARTIST TITLE → ALBUM TITLE → SONG TITLE → P-TIME ※ It does not support to display chapter name.

5-8-14. □Send PAGE (CD/USB)

(1/2)

Function	□ Send CD / USB TITLE Displaying PAGE (2-line display)
Operation of button	□ Touch the [TEXT] key for more than 0.5sec
Destination	**North America ・ Europe ・ Australia**
Detail	□ There are 2 display modes. One displays the lower line only (1-line Display Mode), the other displays both upper and Lower lines (2-line Display Mode). □ Initial mode is 1-line Display Mode. Exp) Title String as 「come on, leave me breathless」 ■1-line Display Mode

Sceen	Example	Description
Upper	ＣＤ□□Ｆ０３□Ｔ１０□	Display Mode name, folder number and track number.
Lower	ｃｏｍｅ□ｏｎ，□ｌｅａ	Display the beginning 12 charactors of title string.

■2-line Display Mode

Screen	Exmple	Description
Upper	ｃｏｍｅ□ｏｎ，□ｌｅａ	Display the beginning 12 charactors of title string.
Lower	ｖｅ□ｍｅ□ｂｒｅａｔｈ	Display from the 13rd to 24th characters of title string.

Detail

・ 1-line Display Mode

□ It displays Mode name, DISC number, FOLDER number, TRACK number and CHANNEL number on the Upper line of screen.

□ It displays P-TIME, Frequency or Title on the Lower line of screen.

□ It will switch to next display if you touch the [TEXT] key for less than 0.5sec.

□ It will display error message instead when error occurs. (Refer to Displaying Specification for displaying error message.)

Mode	Condition	Example for Upper line	Example for Lower line
FM	-	ＦＭ１□ｃｈ３□□□□□	□□□□□８１．３ＭＨｚ
AM	-	ＡＭ□□ｃｈ１□□□□□	□□□□□１１３４ｋＨｚ
LW	-	ＬＷ□□ｃｈ２□□□□□	□□□□□□２７３ｋＨｚ
MW	-	ＭＷ□□ｃｈ５□□□□□	□□□□□１４０４ｋＨｚ
TI	-	Ｔ－ＩＮＦＯ□□□□□□	□□□□□１６２０ｋＨｚ
CD (CD-DA)	When displaying P-TIME	ＣＤ□□□□□□Ｔ-０１	□□□□□□□□０：０９
	When displaying title	Ditto	ＡＢＣＤＥＦＧＨＩＪＫＬ
CD/USB (MP3/WMA/AAC)	When displaying P-TIME	ＣＤ□□Ｆ０４□Ｔ０１□	□□□□□□□□０：０９
	When displaying title	Ditto	ＡＢＣＤＥＦＧＨＩＪＫＬ

(2/2)

Detail

・ 2-line Display Mode

☐ 2-line Display Mode is the mode to display the title name that more than 13 characters for 2 lines.

☐ It will go to 2-line Display Mode if you touch the TEXT key for more than 0.5sec in 1-line Display Mode.

☐ It will not go to 2-line Display Mode if there are less than 13 characters in the title.

Exp） Title String as 「come on, leave me breathless」

Screen	Example	Discription
Upper	ＣＤ□□Ｆ０３□Ｔ１０□	Display Mode name, folder number and track number.
Lower	ｃｏｍｅ□ｏｎ，□ｌｅａ	Display the beginning 12 charactors of title string.

Touch the TEXT key for more than 0.5sec

Screen	Example	Description
Upper	ｃｏｍｅ□ｏｎ，□ｌｅａ	Display the beginning 12 characters of title string.
Lower	ｖｅ□ｍｅ□ｂｒｅａｔｈ	Display from the 13rd to 24th characters of title string.

☐ It will display the beginning 12 characters of title string on the Upper line and the 13rd to 24th characters on the Lower line.

☐ It will turn to next page if you touch the TEXT key for more than 0.5sec in 2-line Display Mode when there are more than 24 characters in the title.

☐ However, the number characters which would be turned up depends on the conent of the title.

☐ It will return to 1-line Display Mode if you touch the TEXT key for more than 0.5sec in 2-line Display Mode when it is displaying the last page.

☐ It does not break words.

☐ 2-line Display Mode will be released by the following condition.

- ☐ When you touch the TEXT key for more than 0.5sec when it is displaying the last page.
- ☐ No operation for **10sec.**
- ☐ When it goes to a track that there is less than 13 characters in title name.

5-8-15. □Display ERROR Message (CD Mode)

Function	□ Display ERROR Message
Operation of button	–
Destination	North America ・ Europe ・ Australia
Detail	□ It is available to switch modes or adjust AUDIO even when error occurs. □ The displaying of ERROR Message will be released when switch modes. □ It will not display ERROR Message even if error occurs when ejecting in other mode except CD Mode. □ Displaying Priority will be the following:「Mechanism ERROR ＞Forcus ERROR ＞DISC ERROR＞Format ERROR」. ・ Mechanism ERROR □ When Mechanism ERROR occurs in CD. □ When it cannot EJECT DISC. □ It will display “PUSH EJECT” when Mechanism ERROR occurs. ・ Forcus ERROR □ DISC stops when it read TOC. □ There is a flaw in the DISC. □ It will display “CHECK DISC” when Forcus ERROR occurs. ・ DISC ERROR □ Insert the DISC uncrrectly. □ It is a dirty DISC. □ Insert a unwritten CD-R □ TOC information is damaged. □ It will display “CHECK DISC” when DISC ERROR occurs. ・ Format ERROR □ Sound will not come out if it is unable to decode. □ It will take 3sec to detect the file that unable to decode, and keep the state for 5sec then goes to the next file. □ It will display nothing when Format ERROR occurs. ・ No File ERROR □ There is no DISC MP3/WMA/AAC file in the DISC. □ It will display “CHECK DISC” when No File ERROR occurs. ・ Digital Rights Management（DRM） □ It will not come out sound if the DRM of WMA of the playing file is ON. □ It will take 3sec to detect DRM, and keep the state for 5sec then goes to the next file. □ It will display nothing when DRM occurs.

5-9. ☐ Operation of USB

5-9-1. ☐USB CONNECT

Function	☐ Connect to USB Media （1 USB Drive）
Operation of button	☐ Connect to USB Media with USB Concave shape A Connector.
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will not switch to USB Mode automatically even if it connects to USB Media. ・ In USB Mode ☐ It will display [NO DEVICE] if it connects to nothing with USB connector. ☐ It will display [USB READING] until it gets ready to play the device that connected. ☐ It will display [USB READING] no matter what it is connecting to, iPod, MSC or unsuport device. ・ Connected to MSC(Mass Storage Class) in USB Mode ☐ It will play from the first track of the first folder when it finishes USB READING.（TOP PLAY） ☐ It will play the resume when reconnected to the same MSC. ☐ Resume information will be scraped each time it connects to an iPod. ・ Connected to iPod in USB Mode ☐ It will start to play from where controlled by iPod when it finishes USB READING.（Depends on iPod） ☐ It will start to play from the first track of song category after it finishes USB READING when it is connected to an iPod that is stopped. ☐ It will start to play from the first track of song category after it finishes USB READING when it is connected to an iPod that is playing VIDEO. ☐ It will be ALL RPT Mode if it is connected in RPT Mode. It sets ALL RPT automaitically by USB Control Comand. ☐ It supports audio only for iPod.（Video is not supported.） ☐ The Logo of SUBARU will be displayed on iPod screen when connected. ※ You cannot do an operation on iPod while connected. However, Touch Pannel Model iPod will be effective. ・ Others ☐ It is able to connect to an iPod when ACC is OFF, but it cannot recognaize the device. ☐ Response latency for USB DEVICE will be 15sec when turn ACC OFF/ON. It will display [USB READING] in the time even if nothing connected with USB connector.（Specification for bad reaction device.）

5-9-2. □USB DISCONNECT

Function	□ Disconnect USB Device
Operation of button	□ Disconnect USB Connector by hand
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will keep USB Mode when you disconnect USB device in USB Mode. □ It will keep current Mode when you disconnect USB device in other mode except USB Mode. □ It will start USB Mode when you turn POWER ON next time if you disconnect the device when POWER is OFF. □ It will work like following if you replace the connected device when POWER(ACC) is OFF.(Destination for All Models) □ If you replace the connected device with an iPod, it will start to play from where controlled by the iPod. □ If you replace the connected device with a MSC (Even it is the same MSC.), it will start to play from top. □ It will display [USB READING] and start USB Mode when you turn POWER ON next time if you disconnect the device in USB Mode when POWER is OFF. If no device detected it will go to NO DEVICE. (It takes 15sec to confirm NO DEVICE.) □ Trickplay Mode will be released if you disconnect the USB device. □ Trickplay Mode will be kept when you turn ACC on next time if you disconnectand connect the same USB device When ACC is OFF. (It cannot detect device connectin or disconnection when ACC is OFF.)

5-9-3. □Playback Object (CD/USB)

□Refer to Playback Object (CD/USB).

5-9-4. ☐Switch to USB Mode

Function	☐ Switch to USB Mode
Operation of button	☐ Touch [CD / AUX] key （Action when Key is ON.）
Destination	**North America ・ Europe ・ Australia**
Detail	☐ Touch the [CD / AUX] key to switch to USB Mode when in other source mode. ☐ It is effective when POWER is OFF. ☐ It will switch to next source mode like following if you touch the [CD / AUX] key in USB Mode. [CD] → [USB(iPod)] → [BT Audio] → [AUX] → [MediaHub] → [CD] → ・・・・ ※ MediaHub can be selected by touching the [SAT] key in Destination For North America. ☐ It will play resume if you switch to USB Mode when it is connected to Memory or iPod. （RPT/RDM Mode is kept.）

5-9-5. □Play / Pause (CD / USB)

Please refer to CD Mode for it includes the operation.

5-9-6. □TRACK UP / DOWN （MSC）

- It is the same to CD（DISC MP3/WMA/AAC When playing）.

5-9-7. □FOLDER UP / DOWN (MSC)

- It is the same to CD(DISC MP3/WMA/AAC When playing).

5-9-8. □TRACK UP / DOWN （iPod）

Function	□ Index UP/DOWN ※It display trck index in iPod.
Operation of button	□ Turn the TUNE key
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will go to the next index if you turn right the TUNE key in iPod Mode. □ It will go to the beginning of the playing ndex if you turn left the TUNE key in iPod Mode. □ It will go to the previours index if you turn left the TUNE key when it plays the index for less than 1sec. However, the timing may be different for different model or F/M Version because of that going to previours track or not is controlled by iPod. □ It is not available to operate in READING.

5-9-9. □CHAPTER UP / DOWN (iPod)

Function	□ CHAPTER UP/DOWN
Operation of button	□ Turn the TUNE key □ It is possible to operate in Podcasts or Audio Books. (There is ST with or without chapter for different content) □ It will track up if you chapter up when it is the last chapter. □ It will track down if you chapter down when it is the first chapter.
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will go to the next chapter if you turn right the TUNE key in a file with chapters in iPod mode. □ It will go to the beginning of the chapter if you turn left the TUNE key in a file with chapters in iPod mode. □ It will go to the previours chapter if you turn left the TUNE key when it palys the chapter for less than 1sec. However, the timing may be different for different models or F/M Version because of that going to previours chapter or not is controlled by iPod. It will track up/down even there are chapters in the index when you continue to track up/down because it is tracked up/down before judge there are chapters or not. □ It will go to the next index if you turn right the TUNE key when it is the last chapter. □ It will go to the previours index if you turn left the TUNE key when it is the first chapterand it has played for less than 1sec. □ It is not available to oprate when READING.

5-9-10. □FF / FB (MSC)

- It is the same to Operation Specification of CD(DISC MP3/WMA/AAC When playing).

5-9-11. □FF / FB (iPod)

・ Track is discripted as Index in iPod.

Function	□ Playing FF/FB of iPod □ Sound comes out when playing FF/FB. (Sound comes out or not depending on the condition of iPod.)
Operation of button	□ Touch the [>>] or [<<] key for more than 0.5sec. (Action only while touching.)
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will play FF if you touch the [>>] key fot more than 0.5sec in iPod Mode. □ It will play FB if you touch the [<<] key fot more than 0.5sec in iPod Mode. □ BEEP sounds when confirms the key operation. □ It will display P-TIME in playing FF/FB. □ It will not display P-TIME but keep displaying menu if it is in iPod MENU Mode. □ It will go to the next index and released from FF mode if it plays FF in the end of the index. (Depending on Specification of iPod.) □ It will be released from FB mode and start to play if it plays FB at the beginning of the index. (Depending on Specification of iPod.) □ The speed of playing FF/FB is depending on Specification of iPod for it is controlled by iPod. □ FF/FB mode will be released by following conditions. □ When you release the key. □ When you switch to other source mode. □ Whe you disconnect the device. □ When you turn ACC / POWER OFF.

5-9-12. □RPT (MSC)

Function	□ RPT Mode of MSC
Operation of button	□ Touch the [RPT / RDM] key for less than 0.5sec.
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will switch to next RPT mode like following if you touch the [RPT / RDM] key for less than 0.5sec each time. [REPEAT OFF] → [TRACK REPEAT] → [FOLDER REPEAT] → [REPEAT OFF] □ Initial setting is OFF. □ It will display the RPTmode name for 3sec, then trturns to the last display (such as ARTIST NAME, P-TIME) when you switch to RPT Mode. □ RPT indicator will be on in RPT Mode. □ It will keep RPT Mode when you turn ACC/POWER OFF or switch to other source mode. □ RPT Mode will be released by following operation. □ Touch the [SCAN] key. (SCAN Mode will be ON when Key is ON) □ Touch the [RPT / RDM] key for less than 0.5sec in FOLDER RPT Mode. (RPT Mode released.) □ Touch the [RPT / RDM] key for more than 0.5sec. (RDM Mode will be ON) □ Disconnect the media device. (Replaced with other media device.)

5-9-13. □RDM (MSC)

Function	□ RDM Mode of MSC
Operation of button	□ Touch the [RPT / RDM] key for more than 0.5sec.
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will switch to next RDM mode like following if you touch the [RPT / RDM] key for more than 0.5sec each time. [RANDOM OFF] → [FOLDER RANDOM] → [ALL RANDOM] → [RANDOM OFF] □ Initial setting is OFF. □ BEEP sounds when you switch to RDM Mode. □ It will display the RDM mode name for 3sec, then trturns to the last display when you switch to RDM Mode. □ It will keep displaying P-TIME until it gets the title. □ RDM Indicator will be on in RDM Mode. □ It will keep RDM Mode when you turn ACC/POWER OFF or switch to other source mode. □ RDM Mode will be released by following operation. □ Touch the [UP] or [DOWN] key. □ Touch the [SCAN] key. (SCAN Mode will be ON when Key is ON) □ Touch the [RPT / RDM] key for less than 0.5sec. (RPT Mode will be ON) □ Touch the [RPT / RDM] key for more than 0.5sec in ALL RDM Mode. (RDM Mode released) □ Disconnect the media device. (Replaced with other media device.)

5-9-14. □RPT/RDM Playlist of Track Transition

5-9-14-1. □TRACK RPT (MSC)

- Omitted for the same Operation Specification to TRACK RPT (DISC MP3/WMA/AAC).

5-9-14-2. □FOLDER RPT (MSC)

- Omitted for the same Operation Specification to FOLDER RPT (DISC MP3/WMA/AAC).

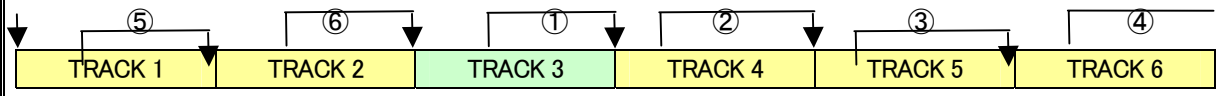
5-9-14-3. □FOLDER RDM(MSC)

- Omitted for the same Operation Specification to FOLDER RDM (DISC MP3/WMA/AAC).

5-9-14-4. □ALL RDM(MSC)

- Omitted for the same Operation Specification to ALL RDM(DISC MP3/WMA/AAC).

5-9-15. □SCAN

Function	□ SCAN Mode of USB(MSC Only)
Operation of button	□ Touch the [SCAN] key. (Action when key is ON.)
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will switch to next SCAN mode like following if you touch the [SCAN] key each time. □ It will start to play all the tracks in the folder for 10sec each from the next track if you switch to FOLDER SCAN Mode. □ It will go to the first track and go on scaning when it is the end of the last track in the folder in FOLDER SCAN Mode. SCAN OFF → FOLDER SCAN → SCAN OFF □ Initial setting is OFF. □ It will display SCAN Mode name for 3sec, then displays P-TIME when you switch to SCAN Mode. □ It will go to the first track when it finishes scaning the last track in the folder. □ It will scan the folder around once and stops when it returns to the track before it starts. For an Example:It is playing Track3 in these 6 tracks.  ※ ①It will track up when you switch to SCAN Mode. It will start to sacn from Track4. □ SCAN Mode will be released by following operation. □ Turn ACC / POWER OFF. □ Switch to other source mode. □ Turn the [TUNE] key. (Track UP / DOWN) □ Touch the [>>] or [<<] key for more than 0.5sec. (FF / FB) □ Touch the [UP] or [DOWN] key. (DISC / MSC MP3 / WMA / AAC Only : FOLDER UP / DOWN) □ Touch the [RPT / RDM] key for lessthan 0.5sec. (RPT Mode ON) □ Touch the [RPT / RDM] key for more than 0.5sec. (RDM ON) □ Touch the [SCAN] key. (SCAN Mode released when Key is ON)

5-9-16. □RPT (iPod)

Function	□ RPT Mode of iPod □ Initial setting may be different depending on the RPT setting of iPod when connecting. □ Repeat Function is carried on by iPod. For an example, if you track up in SONG RPT Mode. It is judged by iPod that it will go to the next track or go to the beginning of current track or it is not effective. So it may display P-TIME as "00:00" temporarily, the track may be judged as not available by iPod, return the last P-TIME. □ It is available to set RPT and Shuffle together depending on the Specification of iPod.
Operation of button	□ Touch the [RPT / RDM] key for less than 0.5sec.
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will switch to next RPT Mode like following if you touch the [RPT / RDM] key for less than 0.5sec. ALL REPEAT ⇔ SONG REPEAT □ Initial setting is ALL REPEAT. (It will not switch to REPEAT OFF Mode for it may make iPod work unstably.) However, when the RPT Mode of the connecting iPod is OFF, It will set to ALL RPT. □ It will return to RPT OFF if you do not set RPT and disconnect the iPod (or ACC OFF) after it is set to ALL RPT for RPT is OFF when connecting. □ It will display RPTMode name for 3sec, then returns to the last display (Such as ARTIST TITLE, P-TIME) when you switch to RPT Mode. □ RPT Indication will be ON in RPT Mode. □ IPod will keep the setting even if it is disconnected. ※ The setting may be relesed depending on the Specification. □ It is not available to set RPT when playing Audiobook.

5-9-17. ☐Shuffle (iPod)

Function	☐ Shuffle Mode of iPod ☐ It will display "RANDOM" or "RDM"instead of "Shuffle" for there are too many character. ☐ ShuffleFunction is carried on by iPod. ☐ It will go on playing current track and reorder the playlist by random when set Shuffle.(When it switch to other track it will not random again but play the playlist which decided when set shuffle.) For this reason, the playing index number will not be changed. If there are too many tracks in current DB, random calculation of iPod may become slowly and the display update slowly. The playing order is changed only by iPod and there will not be special action occurs on set. (It does not mean to do special action that track up in the last track in DB.) ☐ It will not calculate by random for Shuffle on set, because the playing order is decided by iPod. ☐ It is available to set RPT and SHUFFLE together depending on Specification of iPod. ☐ It will act like following depending on Specification of iPod. ☐ SONG Shuffle : Reorder the playing order in selected DB by random. ☐ ALBUM Shuffle : Reorder the playing order of album unit in selected DB by random.
Operation of button	☐ Touch the [RPT / RDM] key for more than 0.5sec.
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will switch to next Shuffle Mode like following if you touch the [RPT / RDM] for more than 0.5sec. [Shuffle OFF] → [ALBUM Shuffle] → [SONG Shuffle] → [Shuffle OFF] ☐ Initial setting is depending on the shuffle setting of the connecting iPod. ☐ BEEP counds when you switch to next shuffle mode. ☐ It will display Shuffle name for 3sec then returns to the last display when you switch to Shuffle Mode. ☐ It will display P-TIME until it gets the title. ☐ RDM indicator is on in Shuffle Mode. ☐ It will keep Shuffle Mode even if you turn ACC/POWER OFF or switch to other source mode. ※ It may be released depending on iPod Specification. ☐ IPod will keep the shuffle setting even it is disconnected. ☐ Shuffle Mode will be released by following operation. ☐ Touch the [RPT / RDM] key for more than 0.5sec in SONG Shuffle Mode. ☐ It is not available to set Shuffle Mode when playing Audiobook / Podcasts. ☐ RDM indicator will be OFF when playing Audiobook / Podcasts.

5-9-18. ☐ RPT/Shuffle Playlist of Track Transition

5-9-18-1. ☐SONG RPT (iPod)

※ The following is the reference only for the action is controlled by iPod. (It is not concerned in the set.)
There may be different actions for different iPod model or F/M Specification.

※ACTION FOR REFERENCE※

RPT Mode	Operation	#	Item/State	Specification
SONG RPT	Play normally in RPT Mode	1	Repeat Method	☐ Repeat the current index.
		2	When it goes to the end of current track.	☐ Go to the beginning of current index. ☐ Go on repeating
	Track UP	1	Track UP	☐ Go to the beginning of current index. ☐ Go on repeating
		2	Track up when it is the last track in the DB	☐ Go to the beginning of current index. ☐ Go on repeating
	Track DOWN	1	Track DOWN (Has played for more than 1sec)	☐ Go to the beginning of current index. ☐ Go on repeating
		2	Track DOWN (Has played for less than 1 sec)	☐ Go to the beginning of current index. ☐ Go on repeating
	FF	1	Play FF until it reach the end	☐ Go to the beginning of current index. ☐ FF Mode **Released** ☐ Go on repeating
	FB	1	Play FB until it reach the beginning	☐ FB Mode **Released** ☐ Go on repeating

5-9-18-2. □ALL RPT (iPod)

※ The following is the reference only for the action is controlled by iPod. (It is not concerned in the set.)
There may be different actions for different iPod model or F/M Specification

※ACTION FOR REFERENCE※

RPT Mode	Operation	#	Item/State	Specification
ALL RPT	Play normally in RPT Mode	1	Repeat Method	□ Repeat all indexes in current DB
		2	When finishes playing the last index in DB	□ Go to the first index in DB □ Go on repeating
	Track UP	1	Track UP	□ Go to the next index in current DB □ Go on repeating
		2	Track UP when it is the last index in DB	□ Go to the first index in DB □ Go on repeating
	Track DOWN	1	Track DOWN (Has played for more than 1sec)	□ Go to the beginning of current index □ Go on repeating
		2	Track DOWN (Has played for less than 1sec)	□ Go to the previours index □ Go on repeating
		3	Track DOWN when it is the first track in the folder (Has played for less than 1sec))	□ Go to the last index in current DB □ Go on repeating
	FF	1	Play FF until it reach the end	□ Go to the next index □ FF Mode Released □ Go on repeating
		2	Play FF until it reach the end of the last index in DB	□ Go to the first index in DB □ FF Mode **Released** □ Go on repeating
	FB	1	Play FB until it reach the beginning	□ FB Mode Released □ Go on repeating
		2	Play FB until it reach the beginning of the first index in DB	□ FB Mode **Released** □ Go on repeating

5-9-18-3. □ALBUM Shuffle (iPod)

※ The following is the reference only for the action is controlled by iPod. (It is not concerned in the set.)
There may be different actions for different iPod model or F/M Specification.

※ACTION FOR REFERENCE※

RPT Mode	Operation	#	Item/State	Specification
ALBUM Shuffle	Play normally in Shuffle Mode	1	Shuffle Method	□ Repeat all indexes in current DB
		2	When finishes playing the last index in DB	□ Go to the first index in current DB □ Reshuffle □ Go on shuffling
	Track UP	1	Track UP	□ Go to the next index in current DB □ Go on shuffling
		2	Track UP when it is the last index in DB	□ Go to the first index in current DB □ Reshuffle □ Go on shuffling
	Track DOWN	1	Track DOWN (Has played for more than 1sec)	□ Go to the beginning of current index □ Go on shuffling
		2	Track DOWN (Has played for less than 1sec)	□ Go to the previours index □ Go on shuffling
		3	Track DOWN when it is the first track in the folder (Has played for less than 1sec))	□ Go to the last index in the same folder □ Reshuffle □ Go on shuffling
	FF	1	Play FF until it reach the end	□ Go to the next index □ FF Mode Released □ Go on shuffling
		2	Play FF until it reach the end of the last index in DB	□ Go to the first index in current DB □ Reshuffle □ FF Mode Released □ Go on shuffling
	FB	1	Play FB until it reach the beginning	□ FB Mode Released □ Go on shuffling
		2	Play FB until it reach the beginning of the first index in DB	□ FB Mode Released □ Go on shuffling

5-9-18-4. □SONG Shuffle(iPod)

※ The following is the reference only for the action is controlled by iPod. (It is not concerned in the set.)
There may be different actions for different iPod model or F/M Specification.

※ACTION FOR REFERENCE※

RPT Mode	Operation	#	Item/State	Specfcation
SONG Shuffle	Play normally in Shuffle Mode	1	Shuffle Method	□ Repeat all indexes in current DB
		2	When finishes playing the last index in DB	□ Go to the first index in current DB □ Reshuffle □ Go on shuffling
	Track UP	1	Track UP	□ Go to the next index in current DB □ Go on shuffling
		2	Track UP when it is the last index in DB	□ Go to the first index in current DB □ Reshuffle □ Go on shuffling
	Track DOWN	1	Track DOWN (Has played for more than 1sec)	□ Go to the beginning of current index □ Go on shuffling
		2	Track DOWN (Has played for less than 1sec)	□ Go to the previours index □ Go on shuffling
		3	Track DOWN when it is the first track in the folder (Has played for less than 1sec))	□ Go to the last index in current DB □ Reshuffle □ Go on shuffling
	FF	1	Play FF until it reach the end	□ Go to the next index □ FF Mode Released □ Go on shuffling
		2	Play FF until it reach the end of the last index in DB	□ Go to the first index in current DB □ Reshuffle □ FF Mode Released □ Go on shuffling
	FB	1	Play FB until it reach the beginning	□ FB Mode Released □ Go on shuffling
		2	Play FB until it reach the beginning of the first index in DB	□ FB Mode Released □ Go on shuffling

5-9-19. □Select Category (iPod)

Function	□ Select Category of iPod □ Only Audio Category is able to be selected. □ The iPod may go to Stop Mode. It will display iPod MENU when it goes to Stop Mode.
Operation of button	□ Touch the [LIST / BACK] for less than 1.5sec : Call iPod MENU (iPod MENU Released) □ Touch the [LIST / BACK] for less than 1.5sec : List Back(iPod MENU Displaying) □ Touch the [LIST / BACK] for more than 1.5sec : Release iPod MENU(iPod MENU Displaying) □ Turn right the [TUNE] key : iPod MENU 内 UP(iPod MENU Displaying) □ Turn left the [TUNE] key : iPod MENU 内 DOWN(iPod MENU Displaying) □ Touch the [TUNE] key : Decide the Item(iPod MENU Displaying)
Destination	**North America ・ Europe ・ Australia**
Detail	□ It is able to select audio category of iPod in iPod MENU. □ It will display Playlists when you open iPod MENU.(The list in this layer is called Top Menu.) □ Item order will be the following when you open the Top Menu. Playlists ⇒ Artists ⇒ Albums ⇒ Songs ⇒ Podcasts ⇒ Genres ⇒ Composers ⇒ Audiobooks ⇒ Playilists・・・ □ The Items are cyclical. (iPod MENU displaying) □ It will stop moving for 500ms when it goes from the beginning to the end or the end to the beginning.. For Example) In Top Menu ➢ Stop at Audiobooks for 500ms when goes from Audiobooks to Playlists. ➢ Stop at Playlists for 500ms when goes from Playlists to Audiobooks □ It will display [NO MUSIC] if there is no item in the list you selected to go when touch the [TUNE] key. □ It will return to upper list and it is able to select list/item, if you touch the [LIST / BACK] key for less than 1.5sec when displaying [NO MUSIC]. (The [LIST / BACK] key is able to do that itself even not in dispalying [NO MUSIC]. □ It will display P-TIME temporary then goes to the main Screen and plays the track if you selected a track and touched the [TUNE] key. □ It will release iPod MENU automatically and display P-TIME temporary then goes to the main Screen and plays if you do no operation in 10sec when you open the list. □ It will return to upper list if you listback from current iPod MENU. □ It will display the list of what you select last time. □ It is able to return to main Screen at last if you touch the key till it returns to main Screen. □ It is unable to listback in Main Screen. (It will go to the Top MENU in iPod MENU) □ It will release iPod MENU Screen and go to Main Screen if you touch the [LIST / BACK] key for more than 1.5sec in iPod MENU Screen.

Detail

☐ It will act like following when you do operations in iPod MENU.

Please refer to each chapter for detail operation of effective keys.

● HARD KEY OF SET

KEY	Destination	Effect	Notes
EJECT	ALL	effective	Keep the Display Go on to count 10sec
TEXT	ALL	not effective	Keep the Display
CD / AUX	ALL	effective	Switch to the Mode
FM / AM	ALL	effective	Switch to the Mode
SCAN(/ AS)	ALL	not effective	Keep the Display
MENU	ALL	effective	iPod MENU Released
RDS	Europe	effective	Keep the Display(AF ON / OFF) Go on to count 10sec
SAT	North America	effective	Switch to the Mode(when there is tuner)
T.I / NEWS	Europe	effective	Switch to the Mode
VOL	ALL	effective	Display VOL Temporary Keep displaying for 10sec then return to iPod MENU
Power OFF	ALL	effective	Power OFF
UP / DOWN	ALL	not effective	Keep the Display
<< / >>	ALL	not effective	Keep the Display
Pch 1～6	ALL	not effective	Keep the Display
RPT / RDM	ALL	not effective	Keep the Display

● STEREO REMOTE CONTROLLER

KEY	Effect	Notes
MODE	effective	Switch to the Mode
UP	not effective	Keep the Display
DOWN	not effective	Keep the Display
VOLUME +	effective	Display VOL Temporary Keep displaying for 10sec then return to iPod MENU
VOLUME −	effective	Display VOL Temporary Keep displaying for 10sec then return to iPod MENU
TALK	effective	Go to TEL Mode
OFF HOOK	effective	Switch to the Mode
ON HOOK	not effective	Keep the Display

5-9-20. □Switch to TITLE

- Refers to Switch to TITLE of CD/USB

5-9-21. □Send PAGE

- Omitted for the same.

5-9-22. ☐Display ERROR (USB)

(1/2)

Function	☐ Display ERROR in USB Mode
Operation of button	–
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It is able to switch other mode or adjust AUDIO when ERROR occurs. ☐ It will nothing when ERROR occurs in other mode except USB Mode.(Display ERROR only in USB Mode) ■ Bus Error ☐ It occurs when more than 1.5A overcurrent caused by USB 5V Bass shorts. ☐ It displays [CHECK DEVICE]. (Refer to Display Specification for Detail) ☐ It will return by turning ACC OFF/ON. (It will occur right away if it still shorts.) ☐ It will stop power supply automatically but display nothing when the current is between 1 to 1.5A. It will return automatically if the cause of the overcurrent removed. ■ Unsupported Device ERROR ☐ It occurs when it is connected to a device which is not supported, such as USB mouse. ☐ It also occurs when iPod is frozen or cannot communication rightly. ☐ It occurs if it is connected to an iPod which is not Object iPod. (such as iPod 4G) ☐ It displays [CHECK DEVICE]. (Refer to Display Specification for Detail) ☐ It will return when disconnect them. ■ Playing ERROR ☐ It occurs when USB communication disconnected by surge or decoding failure happens when playing.. ☐ It occurs when timeout happens for iPod responses extremely late.(Soft wait for about 60sec.) ☐ It occurs when error is notified by iPod. (iPod always responses normal command and may notify error in rare cases.) ☐ It displays [CHECK DEVICE]. (Refer to Display Specification for Detail) ☐ It will return when disconnect them. ☐ It may return automatically after displaying error because it will retry if you do nothing. (It may occurs again after retried for different eroors.) ■ iPod Recognization ERROR ☐ It will display the ERROR when error occurs when it is certifying the connecting iPod. It mainly happens with imitation iPod, Unstable iPod and so on. ☐ It displays [CHECK DEVICE]. (Refer to Display Specification for Detail) ■ HUB ERROR ☐ It occurs when it is connected to USB-HUB. Sometimes it also occus if there are both Mass Storage Class and HUB Class. ☐ It displays [CHECK DEVICE]. (Refer to Display Specification for Detail) ☐ It will return when disconnect them.

Detail	■ Digital Rights Management（DRM） ☐ It will not come out sound if the DRM of WMA of the playing file is ON. ☐ It will take 3sec to detect DRM, and keep the state for 5sec then goes to the next file.（It will display P-TIME as "—:—" and blink） ☐ The file which it would go to when finishes playing current filae normally, or the next file decided by trick play will be the next file. ☐ It will go to the next file in TRACK RPT Mode. ☐ It is not available to pause when playing DRM file. ☐ It is not effective to operate trick play when playing DRM file. ☐ It will display nothing when DRM occurs. ☐ TrickPlay Mode will be kept. ■ Unsupported Files ☐ It will not come out sound if it plays a file which is not supported. ☐ It will keep the state for 5sec then goes to the next file.（It will display P-TIME as "—:—" and blink） ☐ The file which it would go to when finishes playing current filae normally, or the next file decided by trick play will be the next file. ☐ It will go to the next file in TRACK RPT Mode. ☐ It is not available to pause when playing unsupported files. ☐ It is not effective to operate trick play when playing unsupported files. ☐ It will display nothing when ERROR occurs. ☐ TrickPlay Mode will be kept.

5-10. □Operation of Bluetooth Audio

- It is unable to control completely by the set. Each state of operation depends on specification of connecting device.

5-10-1. □Play / Pause

- It is the same specification to CD(DISC MP3/WMA/AAC / AAC When playing).(No operation for DISC rotation or stop.)
- It is unable to control completely by the set. Each state of operation depends on specification of connecting device.

5-10-2. □TRACK UP / DOWN

- It is the same specification to CD(DISC MP3/WMA/AAC / AAC When playing)
- However, it does not support continued operation of TRACK UP/DOWN.
- It is unable to control completely by the set. Each state of operation depends on specification of connecting device.
- The action that tracks down when it is the first track depends on specification of connecting device.
- The action that tracks up when it is the last track depends on specification of connecting device.

5-10-3. □FOLDER UP / DOWN

- It is the same specification to CD(DISC MP3/WMA/AAC / AAC When playing)
- It is unable to control completely by the set. Each state of operation depends on specification of connecting device.
- The strvcture of FOLDER depends on connecting Mobile Phone.
- However, it does not support continued operation of FOLDER UP/DOWN.
- The action that folder down when it is the first track depends on specification of connecting device.
- The action that folder up when it is the last track depends on specification of connecting device.

5-10-4. □RPT

Function	□ RPT Mode of Bluetooth Audio
Operation of button	□ Touch the [RPT / RDM] key for less than 0.5sec
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will switch to next RPT Mode like following if you touch the [RPT / RDM] key for less than 0.5sec. [REPEAT OFF] → [ALL REPEAT] → [FOLDER REPEAT] → [TRACK REPEAT] → [REPEAT OFF] □ It is unable to control completely by the set. Each state of operation depends on specification of connecting device. □ Initial state depends on the connecting device. □ It will display the RPTMode for 3sec when you switch to RPT Mode, then it display P-TIME. It will return to the last display. □ RPT indicator is ON in RPT Mode. □ It depends on the connecting device to keep RPT Mode or not when you turn ACC/POWER OFF or switch to othersource mode. □ The state after operation depends on the specification connecting device. □ Releasing RPT Mode depends on the connecting device.

5-10-5. ☐RDM

Function	☐ RDM Mode of Bluetooth Audio
Operation of button	☐ Touch the [RPT / RDM] key for more than 0.5sec.
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will switch to next mode like following if touch the [RPT / RDM] key for more than 0.5sec. [RANDOM OFF] → [ALL RANDOM] → [FOLDER RANDOM] → [RANDOM OFF] ☐ It is unable to control completely by the set. Each state of operation depends on specification of connecting device. ☐ Initial state depends on the connecting device. ☐ BEEP sounds when switch to RDM Mode. ☐ It will display the RPTMode for 3sec when you switch to RPT Mode, then it returns to the last display. ☐ It will keep displaying P-TIME until it gets title. ☐ RDM indicator is ON in RDM Mode. ☐ It depends on the connecting device to keep RDM Mode or not when you turn ACC/POWER OFF or switch to othersource mode. ☐ The state after operation depends on the specification connecting device. ☐ Releasing RDM Mode depends on the connecting device.

5-10-6. □RPT/RDM Playlist of Track Transition

- The Specification of playlist of track transition of ALL REPEAT, TRACK REPEAT, FOLDER REPEAT, ALL RANDOM, FOLDER RANDUM is the same to 6-9-11.RPT/RDM. However, the state after operation depends on the specification connecting device.

5-10-7. ☐Switch to TITLE

Function	☐ Switch to Title of Bluetooth Audio
Operation of button	☐ Touch the TEXT key for less than 0.5sec
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will switch to display title if you touch the TEXT key for less than 0.5sec in Bluetooth Audio. ☐ Initial setting is diplaying P-TIME. (Depends on the connecting device) ☐ It displays that notified from Mobile Phone. ☐ The state after operation depends on the specification connecting device. ☐ It will display the last display mode when connect next time, even you turn ACC(POWER) OFF/ON, or disconnect the device. ☐ It will display the Title name for 3sec when you switch to Title Mode, then display the title. ☐ It will display "NO TITLE" if there is no title. ☐ The TEXT key is effective in each trick play mode. ☐ The TEXT key is not effective in VOLUME / AUDIO / MENU Mode. ☐ It depends on the connecting device to keep the last display mode or not. ☐ It will switch to next title display mode like following in playing Bluetooth Audio, no matter wether there is tag or not. ☐ The Title Area will be blank if the connecting Mobile Phone has AVRCP Ver1.0. P-TIME → ARTIST TITLE → ALBUM TITLE → TRACK TITLE → P-TIME ☐ It will display TRACK ARTIST as ARTIST TITLE. It will display NO TITLE when there is no TRACK ARTIST.

5-10-8. □ Send PAGE

- It is the same specification with(CD/USB).

5-11. ☐Operation of Bluetooth HFP

5-11-1. ☐ VOICE COMMAND

Function	☐ It is the function to call Menu, Phonebooks or set the setting by Voice Command.
Operation of button	☐ Touch the TALK key and say effective Voice Commands.
Destination	North America ・ Europe ・ Australia
Detail	☐ It is able to call menu or make a call by VOICE COMMAND. ☐ Only Canadian and French languages are supported for North America Destination in Voice Command. ☐ Touch the TALK key and say the Voice Command when it becomes effective. ☐ It will display "LISTENING" when you say a Voice Command. (It will end the Mode in 5sec after it cannot recognize theCommand.) ☐ It is available to registrate VOICE TAG for Mobile Phone or Phonebooks to call these functions out by Voice Command. ☐ [REPEAT] and [CANCEL] are always effective when the TALK key is effective. ☐ If you say "REPEAT" it will repeat the guidance output just before you touch the TALK key. ☐ If you say "CANCEL" it will go to to the last source from BT MENU. ☐ Some of HELP Commands are effective. If you say "HELP" it will guide to the effective Voice Command. ☐ VOICE TAG is effective for North America, Europe and Australia.

5-11-2. □VOICE COMMAND List

No.	ENGLISH	Canadian French
1	0(zero,oh)	0(zéro)
2	1(one)	1(un)
3	2(two)	2(deux)
4	3(three)	3(trois)
5	4(four)	4(quatre)
6	5(five)	5(cinq)
7	6(six)	6(six)
8	7(seven)	7(sept)
9	8(eight)	8(huit)
10	9(nine)	9(neuf)
11	*(star)	*(étoile)
12	#(pound)	#(carré、dièse)
13	+(plus)	'+(plus)
14	*double*	*double*
15	callback	rappel
16	redial	recomposer
17	dial by number	composer par numéro
18	dial by name	composer par nom
19	phonebook	registre
20	setup	réglages
21	phone book add entry	ajouter l'entrée dans le registre
22	phone book change name	modifier le nom dans le registre
23	phone book delete entry	supprimer l'entrée du registre
24	phone book list names	lister les noms du registre
25	phone book set speed dial	configurer composition abrégée pour le registre
26	phonebook delete speed dial	supprimer composition abrégée pour le registre
27	phone book unlock	déverrouiller le registre
28	cancel	annuler
29	help	aide
30	repeat	répéter
31	go back	retourner
32	mute	sourdine
33	*call transfer*	*transfert d'appel*
34	dial	composer
35	previous	précédent
36	delete	supprimer
37	store	enregistrer
38	confirm	confirmer
39	phone setup	réglages du téléphone
40	security	sécurité
41	pair phone	jumeler le téléphone
42	change name	modifier le nom
43	select phone	sélectionner le téléphone
44	list phones	lister les téléphones
45	set pass key	configurer le passe-partout
46	*list phone*	*lister le téléphone*

47	add entry	ajouter l'entrée
48	delete entry	supprimer l'entrée
49	delete speed dial	supprimer composition abrégée
50	by voice	vocalement
51	*voice*	*vocal*
52	by phone	par téléphone
53	*phone*	*téléphone*
54	call history	historique d'appels
55	*by call history*	*par historique d'appels*
56	set speed dial	configurer composition abrégée
57	*next*	*suivant*
58	incoming	entrant
59	outgoing	sortant
60	list names	lister les noms
61	set PIN	configurer NIP
62	phone book lock	verrouiller le registre
63	*PIN setup*	*configuration du NIP*
64	*send*	*envoyer*

※ The commands in *Italic type* are not supported in this set.

5-11-3. ☐BT TOP MENU

(1/2)

Function	☐ Call, Registrate and Set BT TOP MENU.
Operation of button	☐ Call BT TOP MENU in other mode except BT Mode by touching following keys. ☐ KEY OPERATION : Call BT TOP MENU by touching the OFF HOOK key, Select each item by turning the TUNE key and decide by touching it. ☐ VOICE COMMAND : Say the voice commands to call each item in BT TOP MENU directly after touch the TALK key. ※ Following Items are effective. PHONEBOOK : The menu to operate about phonebook REDIAL : The menu to redial or delete the outgoing call history CALLBACK : The menu to redial or delete the incoming call history SET UP : The menu to set each setting of Bluetooth TEL Mode ☐ The following VOICE COMMANDS are effective in BT TOP MENU. ☐ Phonebook : Go to PHONEBOOK ☐ Redial : Go to Redial ☐ Callback : Go to Callback ☐ Setup : Go to Set up ☐ Dial + Voice tag : Call Voice Tag recognized ☐ Dial by name : Go to Dial By Name ☐ Dial by number : Go to Dial By Number ☐ Phonebook Add Entry : Go to Add Entry ☐ Phonebook List Names : Go to List Names ☐ Phonebook Change name : Go to Change Name ☐ Phonebook Set Speed Dial : Go to Set Speed Dial ☐ Phonebook Delete Entry : Go to Delete Entry ☐ Phonebook Delete Speed Dial : Go to Selete Speed Dial ☐ HELP : Call HELPCommand ☐ The following VOICE COMMANDS are effective futher in the following items in BT TOP MENU. ☐ When Item PHONEBOOK is selected. ☐ Add Entry : Go to Add Entry ☐ List Names : Go to List Names ☐ Change Name : Go to Change Name ☐ Set Speed Dial : Go to Set Speed Dial ☐ Delete Entry : Go to Delete Entry ☐ Delete Speed Dial : Go to Delete Speed Dial ☐ Go Back : Go back to BT TOP MENU ☐ HELP : Call HELPCommand ☐ When Item REDIAL is selected. ☐ Dial : Call the number selected ☐ Store : Registrate the number to phonebooksand go to the menu ☐ Delete : Delete the selected number from history and go to the menu ☐ Previous : Go back to display the previours newest number

	☐ Go Back : Go back to display the second newest number ☐ HELP : Call HELPCommand ☐ When Item CALL BACK is selected. ☐ Dial : Call the number selected ☐ Store : Registrate the number to phonebooksand go to the menu ☐ Delete : Delete the selected number from history and go to the menu ☐ Previous : Go back to display the previours newest number ☐ Go Back : Go back to display the second newest number ☐ HELP : Call HELPCommand ☐ When Item SET UP is selected. ☐ Security : Go to Security ☐ Phone Set Up : Go to Phone Set Up ☐ Go Back : Go to BT TOP MENU ☐ HELP : Call HELPCommand ☐ It will announce the Guidance if you operate the hard keys about Bluetooth HFP when driving. ☐ If you drived when regestrating the commands of BY PHONE, MANUAL INPUT, SET SPEED DIAL, DELETE SPEED DIAL, PAIR PHONE and SPEED DIAL, it will cancel the function and return to TOP MENU.
Destination	**North America ・ Europe ・ Australia**

Detail

☐ BT TOP MENU

- PHONEBOOK : The menu to operate about phonebook
  - ADD ENTRY : The function to registrate numbers to phonebook
    - BY VOICE : registrate by VOICE COMMAND
    - BY PHONE : registrate by Mobile phone
    - MANUAL INPUT : registrate by inputing numbers
    - CALL HISTRY : registrate from incoming history
  - LIST NAMES : The function to Read the Voice Tag in phonebook, It is possible for outgoing a call
  - CHANGE NAMES : The function to change registrated VOICE TAGS.
  - SET SPEED DIAL : The function to set an entry as speeed dial.
  - DELETE ENTRY : The function to delete an entry from phonebook..
  - DEL SPEED DIAL : The function to delete SPEED DIAL regestration.
- REDIAL : The menu to redial or delete the outgoing call history
  - DIAL : The function to make a call by selecting a number from outgoing history.
  - STORE : The function to registrate by selecting a number from outgoing history.
  - DELETE : The function to delete a recorde from outgoing history.
- CALL BACK : The menu to redial or delete the incoming call history
  - DIAL : The function to make a call by selecting a number from incoming history.
  - STORE : The function to registrate by selecting a number from incoming history.
  - DELETE : The function to delete a recorde from incoming history.
- SET UP : The menu to set each setting of Bluetooth TEL Mode
  - SECURITY : Setting of PIN CODE and phonebook LOCK ON/OFF
    - SET PIN : SET/RESET PIN
    - PHBK LOCK : PHBK LOCK ON(cannot operate)
    - PHBK UNLOCK : PHBK LOCK OFF
  - PHONE SETUP : Setting of Registrate a Mobile Phone
    - PAIR PHONE : The function to pair with a mobile phone.
    - SELECT PHONE : The function to connect to any phone on the regestration list.
    - CHANGE NAME : The function to reset VOICE TAG of registrated phones.
    - LIST PHONES : The function to read the VOICE TAG.
    - SET PASSKEY : Reset PASS KEY.
    - DELETE : The function to delete a phone from regestration list.
  - SYSTEM SETUP : Setting or Initialization of Guidance Volume
    - GUIDANCE VOL : The function to set Guidance Volume
    - INITIALIZE : The function to initialize.
    - SEL LANGUAGE : The function to set Languages

5-11-4. ☐INITIAL START (PAIRING)

Function	☐ It will begin Initial Pairing if you go to BT TOP MENU when there is no regestration on the list. ☐ It is the same operation to paring normally. ☐ It will display "NOT AVAIL" and released from BT Mode if it begin driving.。
Operation of button	☐ Select the Languages ☐ Key Operation : Select English or French by turning the TUNE and decide by touching the TUNE key. ☐ Display "WELCOME!" ☐ Key Operation : Touch the TUNE or TALK key to skip to registration. ☐ Regestration 1. Registrate the VOICE TAG for a a phone to registrate. ☐ Key Operation : It will display next like following :PAIR PHONE → RECORD NAME → GO BACK Select the RECORD NAME and decide. Touch the TALK key to start Voice Recognization. 2. Read VOICE TAG and registrate. ☐ Key Operation : TURN the TUNE key and select "CONFIRM" and touch. ☐ Voice Recognization : Touch the TALK key and say the Voice Tag(Voice Tag: ***CONFIRM***) 3. Search from mobile phone and iput the PASS KEY. ☐ It will display "CAR M MEDIA" when VOICE TAG registrated → Input PASS KEY by Mobile Phone when it displays. ※ Initial PASSKEY is 1234.
	North America ・ Europe ・ Australia
Detail	☐ It will be released from BT Mode by touching the ON HOOK key. (Go to the last source mode) ☐ Voice Cancel Command is effective in all states. It will be released from BT Mod. (Go to the last source mode)

5-11-5. ☐DIAL

Function	☐ The function to Dial. ☐ There are 8 ways to dial basically. ☐ DIAL BY NAME : Outgoing a call by Saying Voice Tag in Voice Recognization Mode. ☐ DIAL BY NUMBER : Outgoing a call by Saying Numbers in Voice Recognization Mode. ☐ SPEED DIAL : Outgoing a call by Touching the Pch KEY which is registrated for SPEED DIAL ☐ REDIAL : Redial from outgoing history. ☐ CALL BACK : Call back fron incoming history. ☐ LIST NAMES : Outgoing a call from phonebook. ☐ TOP REDIAL : Outgoing a call from outgoing historyby touching the OFF HOOK key from TOP MENU. ☐ DIAL FROM MOBILE : Outgoing a call from Mobile Phone. ☐ It will stop outgoing a call by touching the ON HOOK key when it starts to call.
Operation of button	☐ DIAL BY NAME 1. Touch the TALK key to call VOICE RECOGNIZATION Mode in BT TOP MENU or in other mode except BT Mode and say "*DIAL BY NAME*"to go to DIAL BY NAME Mode. 2. Touch the TALK key to call VOICE RECOGNIZATION Mode and say VOICE TAG to call the memory. It will display the regestration name or number when you call the memory. 3. Outgoing a call. ☐ Key Operation : Turn the TUNE key and select DIAL and touch the TUNE or OFF HOOK key when displaying number. ☐ VOICE COMMAND : Touch the TALK key and say "*DIAL*"when displaying number. ☐ DIAL BY NUMBER 1. It will go to VOICE RECOGNIZATION Mode by touching the TALK key in BT TOP MENU or in other mode except BT Mode. 2. It will go to DIAL BY NUMBER Mode by saying "*DIAL BY NUMBER*". 3. It will go to VOICE RECOGNIZATION Mode by touching the TALK key and say the numbers. 4. Outgoing a call.(The same operation to DIAL BY NAME) ☐ SPEED DIAL 1. It will call the numbers when you touch the 1 ～ 6 key in BT TOP MENU. 2. Outgoing a call by touching the OFF HOOK key.

☐ REDIAL

1. Call REDIAL Mode.

   ☐ Key Operation : Turn the TUNE key and select REDIAL and touch in BT TOP MENU.

   ☐ VOICE COMMAND: Touch the TALK key and say "***REDIAL***" in BT TOP MENU or other mode except BT Mode.

2. Turn the TUNE key in outgoing history and select the number.
3. Outgoing a call.(The same operation to DIAL BY NAME)

(It is possible to call the displaying number by touching the OFF HOOK keywhen displaying outgoing history.)

☐ CALL BACK

1. Call CALL BACK Mode.

   ☐ Key Operation : Turn the TUNE key and select CALL BACK and touch in BT TOP MENU.

   ☐ VOICE COMMAND : Touch the TALK key and say "***CALL BACK***" in BT TOP MENU or other mode except BT Mode.

2. Turn the TUNE key in incoming history and select the number。
3. Outgoing a call.(The same operation to DIAL BY NAME)

(It is possible to call the displaying number by touching the OFF HOOK keywhen displaying incoming history.)

☐ Call from LIST NAMES

1. Call LIST NAMES.

   ☐ Key Operation : Turn the TUNE key to select LIST NAMES in PHONE BOOK and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "***LIST NAMES***" in PHONEBOOK.

   Turn the TUNE key to select a number/name and touch (It display "SELECTED)

3. Outgoing a call.(The same operation to DIAL BY NAME)

(It is possible to call the displaying number by touching the OFF HOOK keywhen displaying phonbook.)

☐ Call TOP REDIAL

1. It will call the most recently number in outgoing history by touch the OFF HOOK key in BT TOP MENU.
2. Trun the TUNE key and select DIAL and touch to outgoing a call.

(In Item 2, it is alsopossible to outgoing a call by touching the OFF HOOK key .)

	North America ▪ Europe ▪ Australia
Detail	

5-11-6. ☐Incoming Call

Function	☐ The function of taking a call.
Operation of button	☐ The following operation is effective when a call incoming. ☐ Answer the call : Answer the call by touching the OFF HOOK key ☐ Response Pending : Short touching the ON HOOK key for Response Pending ☐ Refuse the call : Long touching the ON HOOK key for refusing the call ☐ Adjust the incoming volume : Touch the VOL+ or VOL− key
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It is able to adjust the incoming volume when incoming a call.(Value Range:0～14 Initial Value : 7) ☐ Incoming volume will return to the initial value when next call incomes, even it is adjusted when a call incoming. ☐ It will go to the last mode when incoming calls end. ☐ No Voice Commands are effective.

5-11-7. □CALL

Function	□ The Function to Call By Connecting HFP.
Operation of button	□ The followong operation is effective when calling. □ Switch HF Mode to PRIVATE Mode : Touch the OFF HOOK key.(It also possible for the opposite action.) □ Switch Micphone to MUTE : Touch the TALK key. (It also possible for the opposite action.) □ End the Call : Touch the ON HOOK key.
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will go to the last source mode when a call ends. □ Where it will go depends on the way you dial. The last source mode. □ It is able to adjust the incoming volume when incoming a call.(Value Range:0～14 Initial Value : 7) □ It will release BT Mode and go to the last source mode when you switch to Private Mode. □ Call volume will return to the initial value in next call, even it is adjusted when calling. □ No Voice Commands are effective. □ It is able to adjust Sending Volume Level. If you touch the UP key, Sending Volume Level will be UP. If you touch the DOWN key, Sending Volume Level will be DOWN. (VALUE RANGE:1～5 INITIAL VALUE: 3)

5-11-8. ☐ Registration Phone Book

Function	☐ The function to registrate phone numbers, names and some information else to phonebook. Threr are 6 ways like following. ☐ BY VOICE : Registrate phonebook by saying numbers in VOICE COMMAND Mode. ☐ BY PHONE : Registrate phonebook the numbers transferred from phonebook of mobile phone. ☐ MANUAL INPUT : Registrate phonebook by inputing numbers by key or in VOICE COMMAND Mode. ☐ CALL HISTORY : Registrate phonebook from incoming/outgoing history. ☐ STORE(REDIAL) : Registrate phonebook in REDIAL Item. ☐ STORE(CALL BACK) : Registrate phonebook in CALL BACK Item. ☐ SPEED DIAL : It is available to registrate SPEED DIAL if VOICE TAG has been registrated.
Operation of button	☐ BY VOICE 1. Call BY VOICE MODE in ADD ENTRY Menu. ☐ Key Operation : Turn the TUNE key select BY VOICE and touch. ☐ VOICE COMMAND : Touch the TALK key and say "***BY VOICE***" 2. Say the number you want to registrate. ☐ VOICE COMMAND : Touch the TALK key and say the number. 3. Do the following operation to confirm after saying numbers. ☐ Key Operation : Turn the TUNE key select CONFIRM and touch. ☐ VOICE COMMAND : Touch the TALK key and say "***CONFIRM***". 4. Registrate VOICE TAG ☐ Key Operation : Turn the TUNE key to select RECORD NAME and touch or touch the TALK key. 5. Confirm VOICE TAG. It will display STORED and go to SPEED DIAL after registrated. ☐ Key Operation : Turn the TUNE key to select CONFIRM and touch. ☐ VOICE COMMAND : Touch the TALK key and say "***CONFIRM***" ☐ BY PHONE(It will release BT Mode and display NOT AVAIL when you start driving.) 1. Call BY PHONE MODE in ADD ENTRY Menu. ☐ Key Operation : Turn the TUNE key select BY PHONE and touch. ☐ VOICE COMMAND: Touch the TALK key and say "***BY PHONE***". 2. Corfirm BY PHONE. ☐ Key Operation : Turn the TUNE key select CONFIRM and touch. ☐ VOICE COMMAND: Touch the TALK key and say "***CONFIRM***". 3. Transfer numbers from mobile phone and confirm loke following. ☐ Key Operation : Turn TUNE key to select CONFIRM and touch. ☐ VOICE COMMAND : Touch the TALK key and say "***CONFIRM***". ※ The Rest is the same to「No.3 VOICE TAG REGISTRATION」.

☐ MANUAL INPUT（It will release BT Mode and display NOT AVAIL when you start driving.）

1. Select MANUAL INPUT in ADD ENTRY Menu.

   ☐ Key Operation ： Turn the TUNE key toselect MANUAL INPUT and touch.

2. Input the Numbers（MAX: 24digits）

   ※ The Rest is the same to「No.3 VOICE TAG REGISTRATION」.

☐ CALL HISTORY

1. CALL HISTORY in ADD ENTRY Menu.

   ☐ Key Operation ： Turn the TUNE key to select CALL HISTRY and touch.

   ☐ VOICE COMMAND ： Touch the TALK key and say "*CALL HISTRY*".

2. Turn the TUNE key to select OUTGOING/INCOMING and touch.

   ☐ Key Operation ： Turn the TUNE key to select OUTGOING/INCOMING and touch

   ☐ VOICE COMMAND ： Touch the TALK key and say "*INCOMING*"/"*OUTGOING*"

3. Select the numbers from the history.

   ☐ Key Operation ： Turn the TUNE key to select number and touch.

   ※ The Rest is the same to「No.3 VOICE TAG REGISTRATION」

☐ REDIAL

1. Call REDIAL in BT TOP MENU.

   ☐ Key Operation ： Turn the TUNE key to select REDIAL and touch.

   ☐ VOICE COMMAND ： Touch the TALK key and saying "*REDIAL*".

2. Select the number / name.

   ☐ Key Operation ： Turn the TUNE key to select the number/name and touch to decide.

3. Registrate

   ☐ Key Operation ： Turn the TUNE key to select STORE and touch.

   ☐ VOICE COMMAND ： Touch the TALK key and saying "*STORE*".

   ※ The rest is the same to「No.2 Confirm the Number」.

☐ CALL BACK

1. Call CALL BACK in BT TOP MENU

   ☐ Key Operation ： Turn the TUNE key to select CALL BACK and touch.

   ☐ VOICE COMMAND ： Touch the TALK key and saying "*CALL BACK*".

   ※ The rest is the same to「No.2 Confirm the Number」.

	☐ SPEED DIAL(It will release BT Mode and display NOT AVAIL when you start driving.) 1. It will go to registrate SPEED DIAL after VOICE TAG registrated. ☐ Key Operation : Turn the TUNE key to select SPEED DIAL and touch. ☐ VOICE COMMAND : Touch the TALK key and saying "*SET SPEED DIAL*". 2. Touch any key from 1 ～ 6 which you you want to registrate. ※ It will display "OVERWRITE?" if the key you touch has been registrated.
Destination	**North America ・ Europe ・ Australia**
Detail	☐ VOICE TAG and SPEED DIAL Registration can be ommitted.

5-11-9. ☐PHONEBOOK (Others)

Function

☐ There are some other items like following in phonebook.

- ☐ LIST NAMES : The function to read VOICE TAG. It is able to call.
- ☐ CHANGE NAMES : The function to change VOICE TAG which has been registrated.
- ☐ SET SPEED DIAL : The function to registrate SPEED DIAL.
- ☐ DELETE ENTRY : The function to delete memory from phonebook.
- ☐ DEL SPEED DIAL : The function to delete SPEED DIAL.

Operation of button

☐ LIST NAMES

1. Call LIST NAMES in PHONEBOOK.

   ☐ Key Operation : Turn the TUNE key to select LIST NAMES and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "***LIST NAME***")

2. The following operations are effective in LIST NAMES.

   ☐ Touch the OFFHOOK key : Outgoing a call of the number selected.

   ☐ Touch the TALK key : Select the number which selected when you rouched.(Refer to 3)

   ☐ Turn the TUNE key : Go to next memory(From No.N To No.N+1)

   ☐ Touch the TUNE key : Select the number which selected when you rouched.(Refer to 3)

   ☐ Touch the ON HOOK key : Go to the last Source Mode.

   ☐ No Operation : Display the memory and read VOICE TAG, then go to next memory.

3. If you select a number/name and touch, it will display "SELECTED". The following items are able to select. And VOICE COMMAND is also effective.

   ☐ Key Operation : Turn the TUNE key to select following items and touch.

   - ***DIAL*** : Dial the number
   - ***CHANGE NAME*** : Change VIOCE TAG
   - ***SET SPEED DIAL*** : Registrate SPEED DIAL
   - ***DELETE ENTRY*** : Delete entry from phonebook.
   - ***GO BACK*** : Return to LIST NAMES

   ☐ VOICE COMMAND : Touch the TALK key and say

   After the TALK key has been touched

   - SAY: ***DIAL*** : Dial the number
   - SAY: ***CHANGE NAME*** : Change VIOCE TAG
   - SAY ***: SET SPEED DIAL*** : Registrate SPEED DIAL
   - SAY ***: DELETE ENTRY*** : Delete entry from phonebook.
   - SAY: ***GO BACK*** : Return to LIST NAMES

☐ CHANGE NAME

1. Call CHANGE NAME in PHONEBOOK.

   ☐ Key Operation : Turn the TUNE key to select CHANGE NAME and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "*CHANGE NAME*".

2. Call and change the number/name and Confirm

   ☐ Key Operation : Turn the TUNE key to select the number and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "*VOICE TAG*".

3. Confirm the number. (Only for Call VOICE Recogniztion in Item2.)
   Confirm after displayed the number has been recognized.

   ☐ Key Operation : Turn the TUNE key to select CONFIRM and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "*CONFIRM*".

4. After displayed the number has been recognized, Touch the TALK key or select RECORD NAME to say and registrate a new VOICE TAG.
5. Confirm the VOICE TAG. It will display "CHANGED" 、finishes registration or Updation,then go to Phonebook.

   ☐ Key Operation : Turn the TUNE key to select CONFIRM and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "*CONFIRM*".

☐ SET SPEED DIAL(It will release BT Mode and display NOT AVAIL when you start driving.)

1. Call SET SPEED DIAL in PHONEBOOK.

   ☐ Key Operation : Turn the TUNE key to select SET SPD DIAL and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "*SET SPEED DIAL*".

2. Call the number/name to registrate SPEED DIAL.

   ☐ Key Operation : Turn the TUNE key to select the number and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "*VOICE TAG*".

3. Confirm the number.(Only for Call VOICE Recogniztion in Item2.)

   ☐ Key Operation : Turn the TUNE key to select CONFIRM and touch.

   ☐ VOICE COMMAND :Touch the TALK key and say "*CONFIRM*".

   Touch any key of 1 ～ 6 to registrate SPEED DIAL.

	☐ DELETE ENTRY 1. Call DELETE ENTRY in PHONEBOOK. ☐ Key Operation : Turn the TUNE key to select DELETE ENTRY and touch.. ☐ VOICE COMMAND : Touch the TALK key and say "*DELETE ENTRY*". 2. Call the number to delete. ☐ Key Operation : Turn the TUNE key to select the number and touch. ☐ VOICE COMMAND : Touch the TALK key and say "*VOICE TAG*". 3. Delete the number. (It will display DELETED and go to PHONE BOOK.) ☐ Key Operation : Turn the TUNE key to select CONFIRM and touch. ☐ VOICE COMMAND : Touch the TALK key and say "*CONFIRM*". ☐ DELETE SPD DIAL(It will release BT Mode and display NOT AVAIL when you start driving.) 1. Call DEL SPD DIAL. ☐ Key Operation : Turn the TUNE key to select DEL SPD DIALand touch. ☐ VOICE COMMAND : Touch the TALK key and say "*DELETE SPEED DIAL*". 2. Touch the key of 1 ～ 6 to delete. 3. Delete SPD DIAL. It will display DELETED and go to PHONE BOOK ☐ Key Operation : Turn the TUNE key to select CONFIRM and touch. ☐ VOICE COMMAND : Touch the TALK key and say "*CONFIRM*".
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will go to the last source mode automatically when call ends. ☐ The ON HOOK key is no efective except when calling/ taking a call.

5-11-10. □BT SETUP (SECURITY)

Function	□ There are following settings in SECURITY. □ SET PIN : SET PIN CODE □ PHBK LOCK : SET PHBK LOCK ON(No operation about phonebook is availble) □ PHBK UNLOCK : SET PHBK LOCK OFF
Operation of button	□ Call SETUP in BT TOP MENU and set up. □ Key Operation : Turn the TUNE key to select SETUP and touch. □ VOICE COMMAND : Touch the TALK key and say "*SETUP*". □ Set PIN CODE in SECURITY 1. Call SECURITY when setting up. □ Key Operation : Turn the TUNE key to select SECURITY and touch.. □ VOICE COMMAND : Touch the TALK key and say "*SECURITY*". 2. Call SET PIN . □ Key Operation : Turn the TUNE key to select SET PIN and touch. □ VOICE COMMAND : Touch the TALK key and say "*SET PIN*". 3. Input the current PIN Code when it displays CURRENT PIN?. □ Key Operation : Turn the TUNE key to select Number and touch to decide. □ VOICE COMMAND : Touch the TALK key and say "*PIN CODE NUMBER".* 4. Confirm PIN CODE. □ Key Operation : Turn the TUNE key to select CONFIRM and touch. □ VOICE COMMAND : Touch the TALK key and say "*CONFIRM*". 5. It will display SET PIN and go to registrate newPIN CODE. □ Key Operation : Turn the TUNE key to select the number and touch. To decide. □ VOICE COMMAND : Touch the TALK key and say "*PIN CODE NUMBER".* 6. Confirm the new PIN CODE. (It will display COMPLETED and go to SECURITY MENU.) □ Key Operation : Turn the TUNE key to select CONFIRM and touch. □ VOICE COMMAND : Touch the TALK key and say "*CONFIRM*".

☐ Call PHBK LOCK in SECURIT MENU.

1. Call SECURITY MENU when setting.

   ☐ Key Operation : Turn the TUNE key to select SECURITY and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "***SECURITY***".

2. Call PHBK LOCK.

   ☐ Key Operation : Turn the TUNE key to select PHBK LOCK and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "***PHONE BOOK LOCK***".

3. Input the current PIN Code when it displays CURRENT PIN?.

   ☐ Key Operation : Turn the TUNE key to select Numbers and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "***PIN CODE NUMBER***".

4. Confirm PIN CODE. If PIN CODE is correctly it will display LOCKED, and lock the phonebook.

   ☐ Key Operation : Turn the TUNE key to select CONFIRM and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "

☐ Set PHBK UNLOCK in SECURITY MENU.

1. Call PHBK UNLOCK in SECURITY like PHBK LOCK..

   ☐ Key Operation : Turn the TUNE key to select PHBK UNLOCK and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "***PHONEBOOK UNLOCK***".

   ※ If it is unlocked it will display UNLOCKED and go to SECURITY MENU.

   ※ Then input the PIN CODE and it will display UNLOCKED and unlock the phonbook just like PHBK LOCK..

Destination	North America ・ Europe ・ Australia
Detail	☐ PIN CODE is the code for locking /unlocking the PHONEBOOK. It is different from the KEY for pairing. (The Key forpairing is called PASS KEY.) ☐ PIN CODE is made up by a 4-digit number. ☐ The following operations are limited in BT MENU when it is locked. ☐ If you go to the menu which is limited, it will display PHBK LOCK. The following operations are effective in the case. ☐ Key Operation : Turn the TUNE key to select PHBK UNLOCK and touch.

○HARD KEY

KEYS	EFFECT
OFF HOOK	After going to REDIAL Menu, displays PHBK LOCK
ON HOOK	Go to the last source mode.
TALK	Call Voice Recognization
Touch TUNE	Decide selected item
Turn TUNE	Select item
1～6	Display PHBK LOCK

○VOICE COMMAND

VOICE TAG	EFFECT
PHONEBOOK	Display PHBK LOCK
REDIAL	Display PHBK LOCK
CALL BACK	Display PHBK LOCK
SET UP	Go to SET UP MENU
VIOCE TAG 名	Display PHBK LOCK
DIAL BY NAME	Display PHBK LOCK
DIAL BY NUMBER	Go To DIAL MENU
PHONEBOOK ADD ENTRY	Display PHBK LOCK
PHONEBOOK LIST NAME	Display PHBK LOCK
PHONEBOOK CHANGE NAME	Display PHBK LOCK
PHONEBOOK SPEED DIAL	Display PHBK LOCK
PHONEBOOK DELETE SPEED DIAL	Display PHBK LOCK

5-11-11. □BT SETUP (PHONE SETUP)

Function	□ There are setting items like following in PHONE SETUP MENU. □ PAIR PHONE : Paring □ SELECT PHONE : Select a mobile phone from registration list to connect to. □ CHANGE NAME : Registrate/Change VOICE TAG of the phones on registration list. □ LIST PHONES : Read the VOICE TAG of the phones on registration list. □ SET PASSKEY : Set PASSKEY for pairing. □ DELETE : Delete phones/a phone from registration list.
Operation of button	□ PAIR PHONE (It will release BT Mode and display NOT AVAIL when you start driving.) 1. Registrate VOICE TAG for the phone to registrate. □ Key Operation : Turn the TUNE key to select RECORD NAME and touch or touch the TALK key and speak. □ VOICE COMMAND : Touch the TALK key to call VOICE Recognization Mode and say "***RECORD NAME***". 2. Registrate VOICE TAG after you spoke. □ Key Operation : Touch the TUNE key to select CONFIRM and touch. □ VOICE COMMAND : Touch the TALK key and say "***CONFIRM***". 3. Search from mobile phone and input the PASS KEY. ※ Initial PASSKEY is 1234. □ SELECT PHONE 1. Call SELECT PHONE in PHONE SETUP MENU. □ Key Operation : Turn the TUNE key to select SELECT PHONE and touch. □ VOICE COMMAND : Touch the TALK key and say "***SELECT PHONE***". ※ If there is no phone on registration list, it will display "EMPTY" and go to PHONE SETUP MENU. 2. Select a phone from the registration list. □ Key Operation : Touch the TUNE key to select a mobile phone to connect to and touch. □ VOICE COMMAND : Touch the TALK key and say "***VOICE TAG***". 3. Confirm the phone. (Only for the case that called Voice Recognization in Step2) □ Key Operation : Touch the TUNE key to select CONFIRM and touch. □ VOICE COMMAND : Touch the TALK key and say "***CONFIRM***". 4. Start to connect. It will go to PHONE SETUP MENU after displaying the name and "SELECTED".

☐ CHANGE NAME

1. PHONE SETUP から CHANGE NAME を呼び出します。

   ☐ Key Operation : Touch the TUNE key to select CHANGE NAME and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "*CHANGE NAME*".

   ※ If there is no phone on registration list, it will display "EMPTY" and go to PHONE SETUP MENU.
2. Select the phone to change name from the list like SELECT PHONE.
3. Registrate VOICE TAG again.

   ☐ Key Operation : Touch the TUNE key to select RECORD NAME and touch or touch the TALK key to speak.
4. Confirm VOICE TAG. It will display "CHANGED" and go to PHONE SETUP MENU after you confirm it.

   ☐ Key Operation : Touch the TUNE key to select CONFIRM and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "*CONFIRM*".

☐ LIST PHONES

1. Call LIST PHONE in PHONE SETUP MENU.

   ☐ Key Operation : Touch the TUNE key to select LIST PHONES and touch.

   ☐ VOICE COMMAND : Touch the TALK key and say "*LIST PHONES*".

   ※ If there is no phone on registration list, it will display "EMPTY" and go to PHONE SETUP MENU.
2. Display the phones from the first one and display VOICE TAG. It will go to next like following by Key Operation.

   ☐ Key Operation : Touch the TUNE key to select the next phone and touch.

   : Touch the ON HOOK key to go to the last source mode.

   : Touch the TALK key to select the phone.

   : It will display the phone without operation and read VOICE TAG and go to next memory.
3. It will display SELECTED if you select a phone. Then the following items become effective. The following items are also able to be called by VOICE COMMAND by touching the TALK key.

   ☐ Key Operation : Touch the TUNE key to select following item and touch.

   - *SELECT PHONE* : Connect to a phone
   - *CHANGE NAME* : Change VIOCE TAG
   - *DELETE* : Delete a phone/phones from registration list
   - *GO BACK* : Return to LIST PHONES MENU

   ☐ VOICE COMMAND : Touch the TALK key and speak.

   After touching the TALK key

   - SAY: *SELECT PHONE* : Connect to a phone
   - SAY: *CHANGE NAME* : Change VIOCE TAG
   - SAY *: DELETE ENTRY* : Delete a phone/phones from registration list
   - SAY: *GO BACK* : Return to LIST PHONES MENU

	☐ SET PASSKEY 1. Call SET PASSKEY in PHONE SETUP MENU. ☐ Key Operation : Touch the TUNE key to select SET PASSKEY and touch. ☐ VOICE COMMAND : Touch the TALK key and say "*SET PASSKEY*". 2. Input the new PASSKEY after displaying current PASSKEY. ☐ Key Operation : Touch the TUNE key to select a number and touch to decide. ☐ VOICE COMMAND : Touch the TALK key and say "*PASSKEY NUMBER*". 3. Confirm the PASSKEY. It will go to PHONE SETUP MENU after displaying the new PASS KEY. ☐ Key Operation : Touch the TUNE key to select CONFIRM and touch. ☐ VOICE COMMAND : Touch the TALK key and say "*CONFIRM*". ☐ DELETE 1. PHONE SETUP から DELETE を呼び出します。 ☐ Key Operation : Touch the TUNE key to select DELETE and touch. ☐ VOICE COMMAND : Touch the TALK key and say "*DELETE*". 2. Select the phone to delete from the list. ☐ Key Operation : Touch the TUNE key to select a phone and touch. ☐ VOICE COMMAND : Touch the TALK key and say "*VOICE TAG*". 3. Confirm. It will go to PHONE SETUP MENU after displaying DELETED. ☐ Key Operation : Touch the TUNE key to select CONFIRM and touch. ☐ VOICE COMMAND : Touch the TALK key and say "*CONFIRM*".
Destination	**North America ・ Europe ・ Australia**
Detail	

5-11-12. □BT SETUP (SYSTEM SETUP)

Function	□ There are following setting items in SYSTEM SETUP MENU. □ GUIDANCE VOL : Adjust GUAIDANCE VOLUME □ INITIALIZE : Initilize Information of Registrated Device □ SEL LANGUAGE : Select Language
Operation of button	□ GUIDANCE VOL 1. Call GUIDANCE VOL in SYSTEM SETUP MENU. □ Key Operation : Touch the TUNE key to select GUIDANCE VOL and touch. 2. Turn the TUNE key and adjust GUIDANCE VOL(1～7). It will go to SYSTEM SETUP MENU when timeout or you touch the TUNE key. □ INITIALIZE 1. Call INITIALIZE in SYSTEM SETUP MENU. □ Key Operation : Touch the TUNE key to select INITIALIZE and touch. 2. Confirm INITIALIZATION. It will display"PLEASE WAIT" and "INITIALIZED" then go to the last source mode. □ Key Operation : Touch the TUNE key to select CONFIRM and touch. ※ No key will be effective when displaying "PLEASE WAIT". □ SEL LANGUAGE 1. Call SEL LANGUAGE in SYSTEM SETUP MENU. □ Key Operation : Touch the TUNE key to select LANGUAGE and touch. 2. Turn the TUNE key to select ENGLISH or FRANÇAIS. It will go to SYSTEM SETUP MENU when timeout or you touch the TUNE key.
Destination	**North America ・ Europe ・ Australia**
Detail	□ VALUE RANGE of VOLUME is 1～7. □ It will go to SYSTEM SETUP MENU after you adjust VOLUME. □ The OFF HOOK will be not effective. □ The 1 ～ 6 keys will be not effective.

5-11-13. □DELETE HISTORY

Function	□ Delete the history of REDIAL/CALLBACK.
Operation of button	□ REDIAL 1. Call REDIAL in BT TOP MENU. □ Key Operation : Touch the TUNE key to select REDIAL and touch. □ VOICE COMMAND : Touch the TALK key and say "*REDIAL*". 2. Select the number/ name to delete. □ Key Operation : Touch the TUNE key to select registration number/name and touch to decide. 3. Delete. □ Key Operation : Touch the TUNE key to select DELETE and touch. □ VOICE COMMAND : Touch the TALK key and say "*DELETE*". 4. Confirm deletion. It will display "DELETED" and go to TOP MENU. □ Key Operation : Touch the TUNE key to select CONFIRM and touch. □ VOICE COMMAND : Touch the TALK key and say "*CONFIRM*". □ CALL BACK 1. Call CALL BACK in BT TOP MENU. □ Key Operation : Touch the TUNE key to select CALL BACK and touch. □ VOICE COMMAND : Touch the TALK key and say "*CALL BACK*". ※ The rest is the same specification to Item2 "Select the number/ name to delete" in Registration from REDIAL History.
Destination	**North America ・ Europe ・ Australia**
Detail	

5-12. □Operation of AUX

Function	□ AUX Input
Operation of button	□ Touch the CD / AUX key. （Action when Key is ON） □ Touch the MODE key of Steering Controller.
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will switch to AUX Mode if you touch the CD / AUX key no matter whether connected to an AUX Device or not. (Please refer to "Switch to CD Mode" in CD Chapter.) □ It will not switch to AUX Mode if you touch the MODE key of Steering Controller when there is no AUX Device connected. □ It will keep AUX VOLUME Value even if you disconnect the AUX Device. □ It will not go to AUX Mode automatically even if you connect a AUX Device to the SET when it is working. □ It will keep AUX Mode when you disconnect the AUX Device in AUX Mode. □ AUX Mode will be released by following operation. □ When you switch to other mode.

5-13. □OTHERS

5-13-1. □POWER ON

Function	□ POWER ON/OFF
Operation of button	□ Touch the VOLUME key.
Destination	North America ・ Europe ・ Australia
Detail	□ POWER will be ON in last mode if you touch the VOLUME key when POWER is OFF. □ POWER will be OFF if you touch the VOLUME key when POWER is ON. □ The Display will also be off when POWER is OFF. □ It will not FADE OUT/IN like touching the MUTE key when POWER is OFF/ON. □ It will start to receive initial FM1 frequency of RADIO when you turn POWER ON first time.

5-13-2. □BEEP

(1/2)

Function	□ BEEP OCCURING When Operate the Specified Key
Operation of button	□ Refers to Following.
Destination	North America ・ Europe ・ Australia
Detail	□ BEEP(3kHz、60ms) Comes out from the Front Speaker. □ The following table is about states when BEEP is ON. □ When BEEP is OFF, "○" becomes "×" in following table.

	KEY	MODE	BEEP		
			SHORT TOUCH	LONG TOUCH	TURN LEFT/ RIGHT
SET	EJECT	ALL	×	–	–
	VOLUME	ALL	×	–	×
	CD / AUX	Except BT Tel	×	–	–
		BT Tel	–	–	–
	FM / AM (US/EU)	Except BT Tel	×	–	–
		BT Tel	–	–	–
	SAT(US)	Except BT Tel	×	–	–
		BT Tel	–	–	–
	RDS(EU) (※1)	RADIO(FM)	×	○	–
		Except RADIO(FM)	–	–	–
	PTY / CAT(US)	RADIO / SAT	×	–	–
		CD / USB / BT Audio / AUX / BT Tel	–	–	–
	TI / NEWS(EU)	ALL	×	○	–
	FOLDER / CATEGORY UP/DOWN	AUX / BT Tel	–	–	–
		RADIO / CD / SAT / USB/ BT Audio	×	–	–
	SEEK UP/DOWN	RADIO	×	–	–
		CD / USB	–	○	–
		SAT	–	○	–
		BT Audio / AUX / BT Tel	–	–	–
	MENU	ALL	×	–	–

Detail

SET	PRESET 1～6	RADIO / SAT	×	○	−
		CD	×	−	−
		USB / BT Audio /AUX / BT Tel	−	−	−
	TEXT	AUX / BT Tel	−	−	−
		RADIO / CD / SAT / USB / BT Audio	×	○	−
	TUNE	ALL	×	×	×
	LIST / BACK	iPod	×	○	−
		BT Audio	×	−	−
		RADIO / CD / SAT / USB(iPod EXCEPT) / AUX / BT Tel	−	−	−
	RPT / RDM	RADIO/SAT/AUX/BT Tel	−	−	−
		CD / USB / BT Audio	×	○	−
	SCAN (US)	RADIO / CD / SAT / USB	×	−	−
		BT Audio / AUX / BT Tel	−	−	−
	SCAN / AS (EU)	RADIO	×	○	−
		CD / USB	×	−	−
		BT Audio / AUX / BT Tel	−	−	−
STE REO CON TRO LLE R	MODE	BT Tel 以外	×	○	−
		BT Tel	−	−	−
	SEEK UP / DOWN	RADIO	×	○	−
		CD / USB / BT Audio / SAT	×	−	−
		AUX / BT Tel	−	−	−
	VOL UP / DOWN	ALL	×	×	−
	TALK	ALL	×	−	−
	OFF HOOK	ALL	×	−	−
	ON HOOK	EXCEPT BT Tel	−	−	−
		BT Tel	×	−	−

○ : BEEP rings
× : BEEP does not ring
− : NO OPERATION

5-13-3. ☐Switch to LOUDNESS

Function	☐ Switch LOUDNESS ON/OFF
Operation of button	☐ Touch the 1 and 6 and TUNE keys together when POWER is ON.
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will switch LOUDNESS ON/OFF if you touch the 1 and 6 and TUNE keys together when POWER is ON. ☐ Initial setting is LOUD ON. ☐ It will return to initial setting if you turn B/U OFF. ☐ This is Operation Specification for Program Developing but not for USER after all.

5-13-4. ☐ Switch to EQ

Function	☐ Switch to EQ of CAR
Operation of button	☐ Touch the [1] and [2] and [TUNE] keys togther when POWER is OFF ⇒ Setting SEDAN ☐ Touch the [1] and [3] and [TUNE] keys togther when POWER is OFF ⇒ Setting WAGON ☐ Touch the [1] and [4] and [TUNE] keys togther when POWER is OFF ⇒ Setting FLAT
Destination	**North America ・ Europe ・ Australia**
Detail	☐ It will set EQ as SEDAN if you touch the [1] and [2] and [TUNE] keys togther when POWER is ON. ☐ It will set EQ as WAGON if you touch the [1] and [3] and [TUNE] keys togther when POWER is ON. ☐ It will set EQ as FLAT if you touch the [1] and [2] and [TUNE] keys togther when POWER is ON. ☐ It will keep the setting if it is set by operations above, even if you turn B/U OFF or reset. ☐ This is Operation Specification for Program Developing but not for USER after all.

5-13-5. ☐ Function of Preventing From Burglar

Function	☐ AUDIO SECURITY
Operation	–
Destination	North America ▪ **Europe** ▪ Australia
Detail	☐ Only for RIGHT-HANDLE CAR. ☐ Please refer to attachment.

5-13-6. ☐TEL MUTE

Function	☐ TEL-MUTE
Operation of button	–
Destination	**North America ・ Europe ・ Australia**
Detail	☐ If car-phone is connected to the TEL-MUTE terminal of the set and call rings, it will stop the mode if it is in RADIO/CD/USB/AUX mode. ☐ It will display「CALL」in TEL-MUTE Mode. ☐ It will stop displaying「CALL」and return to the last mode if call ends and telphone is OFF. ☐ If you crank or turn ACC/POWER ON in TEL-MUTE Mode, it will release TEL-MUTE Mode for 10sec from then on and output the sound of last mode. ☐ It will return to TEL-MUTE Mode 10sec later. ☐ TEL-MUTE Mode will be released by following conditions. ☐ When you go to other source mode. (Including going to other source mode by LOADING) ☐ When you touch the MODE key of Steering Controller for more than 1.5sec. (Return to last mode) ☐ It will not return to TEL-MUTE Mode if TEL-MUTE terminal has not been OFF for once, even TEL-MUTE Mode is released by the operations above. ☐ Both normal MUTE and TEL-MUTE Modes will be released and sound comes out, if you do the operation above to release TEL-MUTE Mode when it is switched from normal MUTE.

5-13-7. □Operation of Steering Controller

When it is detected that more than 1 key are touched together (When the keys of Steering Controller in low voltage are touched), the first key and the last key you touch will be not effective.

5-13-7-1. □VOLUME UP / DOWN (1step)

Function	□ VOLUME の UP/DOWN
Operation of button	□ Touch the VOLUME + or VOLUME − key for less than 0.5sec.
Destination	**North America ・ Europe ・ Australia**
Detail	■ COMMON FOR ALL MODES □ Adjust VOLUME when Key is ON. □ VOLUME will be 1step UP if you touch the VOLUMR + key for less than 0.5sec. □ VOLUME will be 1step DOWN if you touch the VOLUMR − key for less than 0.5sec. □ It will not be UP when it is the MAX(**40**). □ It will not be DOWN when it is the MIN(**0**). □ The VOLUME + and VOLUME − keys of the set will be not effective when you are touching the VOLUME + or VOLUME − key of Steering Controller. □ The VOLUME keys of Steering Controller will be effective even it is receiving a call/calling/ in Voice Guidance in BT-TEL Mode. □ VOLUME ADJUSTMENT will be released by following conditions. □ When you turn ACC / POWER OFF. □ When you touch an effective key which is effective in each mode. □ When you do no operation in **5sec.**

5-13-7-2. □VOLUME UP / DOWN (Continued)

Function	□ VOLUME be UP/DOWN Continued
Operation of button	□ Touch the VOLUME + or VOLUME − key for more than 0.5sec. (Action Only When Touching)
Destination	**North America ・ Europe ・ Australia**
Detail	■ COMMON FOR ALL MODES □ VOLUME will be UP/DOWN continued when you touch the VOLUME + or VOLUME − key for more than 0.5sec. □ VOLUME will be 1 step UP/DOWN in every 150ms when you touching the key for more than 0.5sec. □ It will stop when it is the MAX/MIN(**40/0**).

5-13-7-3. ☐ UP / DOWN

Function	☐ Preset CH UP / DOWN （SEEK UP / DOWN）
Operation of button	☐ Touch the UP or DOWN key.
Destination	**North America ・ Europe ・ Australia**
Detail	■ RADIO Mode ☐ Preset CH will be UP/DOWN if you touch the UP or DOWN key for less than 1.5sec. ☐ It will SEEK UP/DOWN if you touch the UP or DOWN key for more than 1.5sec. ■ SAT Mode ☐ CH will be UP/DOWN if you touch the UP or DOWN key.（Action when Key is ON） ■ CD / USB / BT Audio Mode ☐ TRACK will be UP/DOWN if you touch the UP or DOWN key for less than 1.5sec. ☐ FOLDER will be UP/DOWN if you touch the UP or DOWN key for more than 1.5sec. ■ AUX Mode ☐ The key is not effective in AUX Mode. ■ BT-TEL Mode ☐ The key is not effective in BT-TEL Mode.

5-13-7-4. □MODE

Function	□ Switch MODES
Operation of button	□ Touch the MODE key for less than 1.5sec.
Destination	**North America ・ Europe ・ Australia**
Detail	【 COMMON FOR ALL MODES 】 □ It will switch to other mode if you touch the key. The Mode order will be different for different Destinations. North America／Australia FM → AM → SAT ※ → CD ※ → USB ※ → → BT Audio ※ → AUX ※ → Media-HUB ※ → FM Europe FM → MW → LW → CD ※ → USB ※ → → BT Audio ※ → AUX ※ → Media-HUB ※ → FM □ It will go to the last frequency of the last BAND if you switch to FM Mode. □ It will go to the last frequency if you switch to AM Mode. □ It will go to the last channel of the last BAND if you switch to SAT Mode. □ It will go to the last time of the last track of the last DISC if you switch to CD Mode. □ It is not effective when ACC/POWER is OFF. □ It will go to the last time of the last track if you switch to USB Mode. □ ※ The mode with the mark will be skipped if it is not connected (or no disk inserted). (This specification is for touching the MODE key of Strereo Controller only, it will not skip when switch by other ways.)

5-13-7-5. □MUTE

Function	□ MUTE ON / OFF
Operation of button	□ Touch the MODE key for more than 1.5sec.
Destination	**North America ・ Europe ・ Australia**
Detail	□ It will switch MUTE ON/OFF if you touch the MODE key for more than 1.5sec in each mode. □ It will display "MUTE" in MUTE Mode. □ It will FADE OUT when switch to MUTE-ON. □ It will FADE IN when switch to MUTE-OFF. □ The function of FADE IN/OUT is effective ONLY in CD, USB, BT-Audio and AUX modes. □ Time RULE of FADE IN/OUT action will be the following.

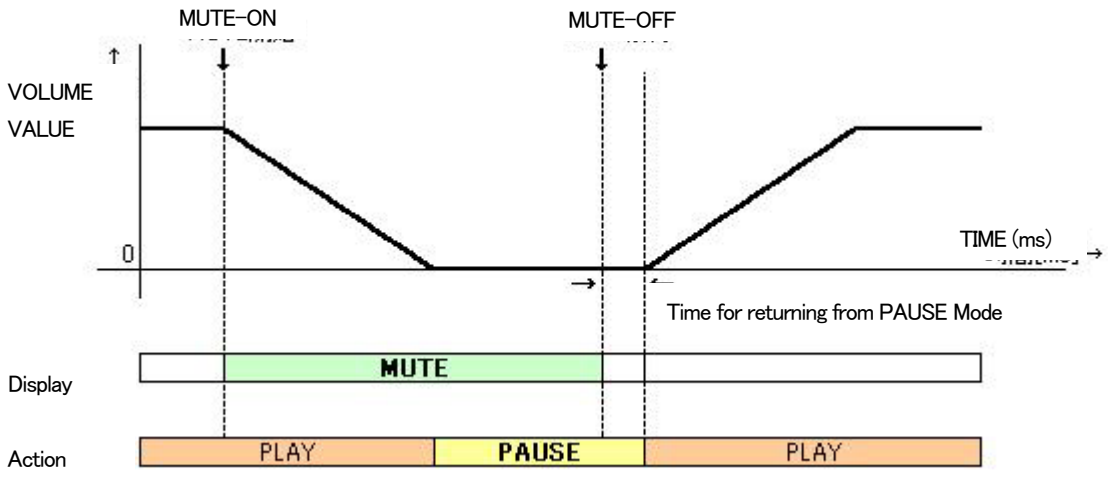
OPERATION	VOLUME STEP / TIME	LAST VALUE
MUTE-ON	1step DOWN / 50 msec	Vol -∞
MUTE-OFF	1step UP / 50 msec	LAST VOL

□ It will stop when the volume value is 1 up, if you operate to UP the volume when fading out.
□ The volume value will be 1 if you operate to up the volume for 1 step in MUTE Mode.
□ It is not effective to down the volume in MUTE Mode.
□ The volume value will be 1 up/down if you operate to up/down the volume when fading in.

■ CD/USB/BT-Audio Mode

□ DISC BOSE acts like following when MUTE-ON in CD/USB (Including iPod) Mode. (Refer to the picture below)

OPERATION	BOSE ACTION	ACTION TIMING
MUTE-ON	BOSE ON	Right after Volume becomes -∞ when MUTE-ON
MUTE-OFF	BOSE OFF	Right before returns to the last Volume



■RADIO MODE

☐ The MODE is also effective when seeking..

☐ If you switch MUTE ON when seeking, It will keep the MUTE Mode even it finishes seeking.

☐ MUTE Mode will be released by following situation.

- ☐ When you turn ACC / POWER OFF.
- ☐ When you go to other source mode.
- ☐ Touch the MODE key more than 1.5sec.
- ☐ When you turn VOLUME UP.
- ☐ When BT-TEL interrupts.

※It will not be released when RDS interrupts.

☐ The following key is also effective besides above. (MUTE Mode will not be released.)

- ☐ The EJECT key.

※MUTE Mode will be released in case of touching the EJECT key when you going to other source mode.

5-13-7-6. □ON HOOK

Function	□ End a Call
Operation of button	□ Touch the ON HOOK key.
Destination	**North America ・ Europe ・ Australia**
Detail	【 COMMON FOR ALL MODES 】 □ End HFP function by mobile phone.

5-13-7-7. □OFF HOOK

Function	□ Outgoing a Call
Operation of button	□ Touch the OFF HOOK key.
Destination	**North America ・ Europe ・ Australia**
Detail	【 COMMON FOR ALL MODES 】 □ Outgoing a call from mobile phone.

5-13-7-8. □VOICE COMMAND

Function	□ VOICE COMMAND
Operation of button	□ Touch the TALK key
Destination	**North America ・ Europe ・ Australia**
Detail	【 Common For All Models 】 □ Voice Command will be effective by touching the TALK key.

5-13-8. CONTROL BRIGHTNESS & ILLUMI

Function	☐ The Brightness of LCD backlight can be changed by the operation of illumination.
Operation of button	–
Destination	**North America ・ Europe ・ Australia**
Detail	☐ If it receives "BRIGHT ON" signal from ECU, it will set brightness of LCD backlight to Day Brightness (MAX). ☐ If it receives "BRIGHT OFF" signal from ECU, it will set brightness of LCD backlight as singnal. ☐ It is possible to adjust the brightness in 6 steps.

	STEP OF CAR ILLUMI	LCD BACK LIGHT BRIGHTNESS
Night Brightness	1	DARK
	2	↑
	3	|
	4	|
	5	↓
	6	LIGHT
Day Brightness	–	MAX