Model : TCM-3

Instruction Manual

Compact Disc
CD/CD-R/CD-RW/MP3 Player
with PLL MW/FM   Radio,
Radio Data System

LOCATIONS OF CONTROLS

1. POWER ON/OFF

2. FUNCTION SELECT BUTTON

3. VOL UP/VOL DOWN

4. MODE BUTTON

5. AF FUNCTION (ALTERNATIVE FREQUENCIES)

6. BAND BUTTON (BND)

7. AUTO SEEK SEARCH TUNING (AS/PS)

8.9. AUTOMATIC OR MANUAL TUNING (FREQ UP ◄◄ OR FREQ DOWN ►► / CD TRACK/SEARCH BUTTON

10. CD EJECT BUTTON (⏏)

11. CD SLOT

12. LCD DISPLAY

13. PAUSE BUTTON

14. INTRO BUTTON (PREVIEW ALL TRACKS)(INT)

15. REPEAT BUTTON (RPT)

16. RANDOM BUTTON (RDM)

17.18. -/+10 TRACK SEARCH DOWN/UP

19. PRESET STATIONS(1,2,3,4,5,6)

OPERATING INSTRUCTIONS

1. POWER ON/OFF
By pressing this key(1), the unit is switched on and off.
This unit is turned on by pressing any key.

2. SELECT(SEL)
3. VOLUME KNOB
Rotate Volume up/down knob to control the VOLUME to select   other functions, press the
SEL(2) button shortly until the desired functions is shown on the display.
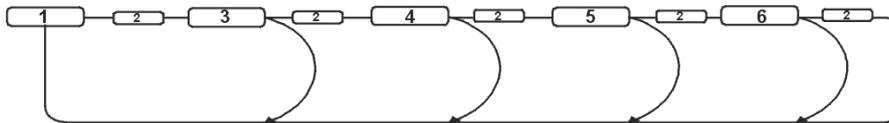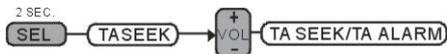Figure 1 shows how control functions are selected using the SEL button.

Fig. 1 Selection of sound control functions

1. VOLUME 2. SELECT3. BASS 4. TREBLE 5. BALANCE   6.FADER
To increase or decrease the volume by rotating the volume knob. These buttons can be used
to adjust the BASS, TREBLE, BALANCE and   FADER.

(1) TA SEEK/TA ALARM (2)
When press the SEL button (2) for more than 2 seconds,it is activated as selecting mode of
these function. TA SEEK Mode or TA ALARM mode is selected by rotating the volume knob.

TA SEEK mode:
When newly turned station does not receive TA   infor-mation for 5sec, the radio retunes to
next station which has not   the same   station(PI) as the last station, but has the TA informa
tion.In TA seek mode,the current station can be changed to the completely different   station
because the unit searches TA   station when the field strength of the current station is very
weak, or the current station has no TA signal.
-TA ALARM   mode:
Any automatic retune mode is not activated, just can be heard Beep sound.

(2)PI MUTE / PI SOUND(2)
  When press the SEL button for more than 2 seconds, it is activated as selecting   mode of
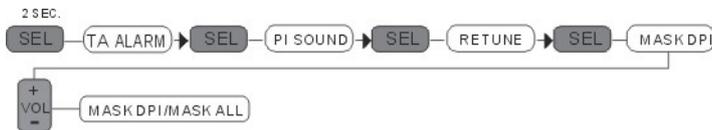these function.

(3)RETUNE L/S
When press the SEL button for more than 2 seconds, it is activated as selecting   mode of
these function.

(4)MASK DPI(2)

When press the SEL button for more than 2 seconds, it is activated as selecting mode of these function.
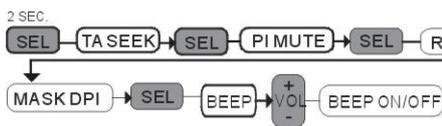

MASK DPI: masked only the AF which has different PI.
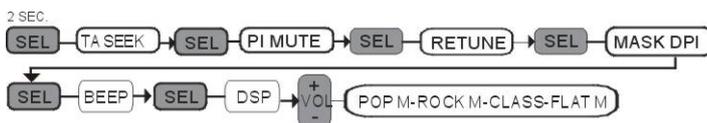**MASK ALL: masked the AF which has different PI and NO RDS signal with field strength.**

(5)BEEP MODE(2)

When press the SEL button for more than 2 seconds, it is activated as selecting mode of these function.

(6)DSP MODE(2)

When press the SEL button for more than 2 seconds, it is activated as selecting mode of these function.

4. MODE BUTTON(MODE)

By pressing this key, user can select RADIO mode or CD/MP3 PLAYER mode.

USING THE RDS FUNCTION

What is RDS?

The RDS (Radio Data System) is a digital information system developed by the EBU (European Broadcast Union). Piggy backed on normal FM broadcasts, RDS offers a variety of information services and automatic retuning functions for RDS-compatible car stereos.In1988, RDS became available in the United Kingdom, France, West Germany, Ireland and Sweden. Test trans-missions are being conducted in many other European countries. It is expected that RDS will be available in most western European countries in the near future.

5. AF/REG function (ALTERNATIVE FREQUENCIES)

When press short, AF/REG switching mode is selected.

When AF/REG switching mode is selected, the radio checks the signal strength of the AF all the time. When press long, it is activated as regional mode ON/OFF.

    -Regional mode ON:

AF switching or PI SEEK is implemented to the station which have all PI codes same as current station. REG segment is turned on in LCD display.

    -Regional mode OFF

The regional code in the format of PI code is ignored when AF switching or PI SEEK is implemented.

6. BAND BUTTON(BND)

Each band is toggled cyclically by pressing this key FM1-FM2-FM3-MW1-MW2.

7. AUTO SEEK SEARCH TUNING(AS/PS)

By pressing shortly, the radio searches for each preset Station.

When field strength level is bigger than the threshold level of stop level, the radio is holding at that preset number for5 secretary.

With releasing mute, and then searches again.

By pressing longer than 1sec,and then 6 strongest stations are preset to the corresponding preset number.

When AS operation is finished, the radio executes the preset scan.

8.9. AUTOMATIC OR MANUAL TUNING(FREQ UP : OR FREQ DOWN 9)

(A) RADIO MODE

When press short, these keys are operated as MANUAL tuning mode.

When press longer than 1 sec., they are operated as SEEK tuning mode.

(B) CD/MP3/WMA/SD/MMC/USB PLAYER MODE

When press short, they are operated as TRACK UP/DOWN mode.

When press longer than 1 secretary., they are operated as CUE or REVIEW mode.

10. CD EJECT BUTTON

Press the EJECT button(10) to remove the CD.

11. CD SLOT

12. LCD DISPLAY

The liquid Crystal Display will display the current state of the unit.

13. PAUSE BUTTON

During PLAY mode, press PAUSE button(18) to PAUSE .

Press it again to resume play.

14. INTRO BUTTON(Preview all Tracks)

When this button (19) is pressed, INT indication is displayed and the first several seconds of

each track of the disc are played.
Press again to stop intro and listen to track.

15. REPEAT BUTTON (RPT)
When this button is pressed, RPT indication is displayed and play of the selected track will be continually repeated until the Track Repeat mode is cancelled by pressing RPT button (20) again.

16. RANDOM BUTTON (RDM)
When this button is pressed, RDM indication is displayed and each track of the disc are played in random instead of normal progression.
To cancel RANDOM mode, press RDM   button (21) again.

17,18. 10 TRACK DOWN/UP SELECT:
        (In case of MP3   files)
        5: 10 TRACK DOWN   6: 10 TRACK UP

19. PRESET STATIONS(1,2,3,4,5,6)
RADIO MODE:
When press short, these keys select a preset station directly. When press longer   than 1 sec., current station is stored in preset memory bank

CD CONTROL LOCATION OF PARTS
8. 9. SKIP TRACK/SEARCH BUTTON
FORWARD AND REVERSE TRACK SEARCH
(or changing songs)
Press the SKIP button(TUN ▶▶ or TUN ◀◀) during play to go to the desired   track(song).
TUN   ◀◀ ...REVERSE   TUN   ▶▶   ...FORWARD
Press and hold the SKIP button (TUN ▶▶ or   TUN ◀◀) during play to scan the disc at high speed. When the desired music section of the disc is found,release the button. Normal play will resume.When CD/MP3 play is finished, CD/MP3/WMA mode automatically changes to FIRST TRACK ..

HOW TO SELECT MP3/WMA FILES
1. Searching Track:
   Press "AS/PS" , then searching track is activated.
   Press "SEL", then the first digit is blinking.
   With "VOL⊙ / VOL⊙ "knob, select first digit you want.
   Press "SEL", then the first digit is fixed and second digit is blinking.
   With "VOL⊙ / VOL⊙   " knob, select 2' nd and 3' rd respectively.
   Then automatically the song you selected will start.

2. Searching File Name:
   Press "AS/PS" twice, then file search is activated.

Press "SEL", then the first directory is displayed.
With "VOL⟳ / VOL⟲ " knob, you can select the directory you want.
Press "SEL" again, then the directory is fixed and the fisrt file name
With "VOL⟳ / VOL⟲ " knob, you can select the file you want is displayed.
Press "SEL", Then The Song you selected will start.

SPECIFICATIONS

FM SECTION

Frequency range	87.5-108.0MHz
Channel step	50KHz
Intermediate frequency	10.7MHz
Sensitivity	2uVat 30 dB S/N
Signal to noise radio	>60dB

MW SECTION

Frequency range	522-1620KHz
Channel step	9 KHz
Intermediate frequency	10.7MHz
Sensitivity	30 dB
Signal to noise radio	>50dB

CD/MP3/WMA PLAYER SECTION

Signal to Noise Ratio	>60dB
Frequency Response	20Hz-20KHz

GENERAL

Power Supply Voltage	DC 12 Volts Negative Ground
Max Current Consumption	1A
Max Output Level	2 V