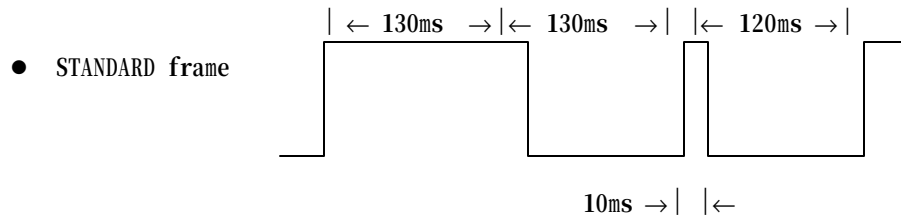


(22-1682 Theory of Operation)

1. SELF TEST .

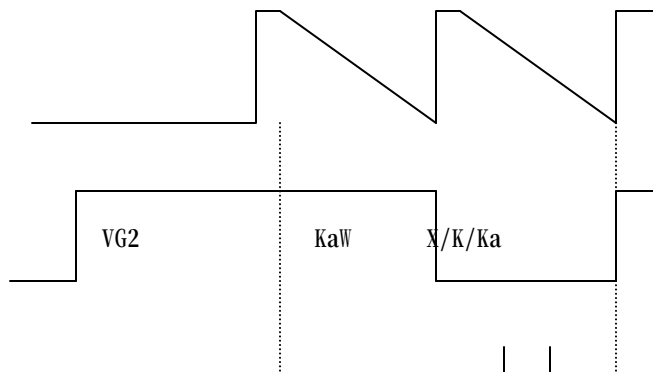
- 1) POWER ON. (DIAL VOLUME)
- 2) LED DISPLAYS.(SEVEN SEGMENT 0 TO 9 → SA → X → K/Ka → VG2)
- 3) SOUND TONES.(KEY TONE)
- 4) TIME (2SECONDS)
- 5) VISUAL & AUDIBLE.

2. STANDARD FRAME (1ST & 2nd local)



* 1ST LOCAL SWP(TP3)

*2nd LOCAL : (TP4)



* TP: Test Point

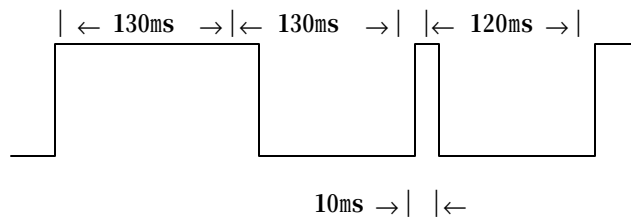
● Radar SIGNAL INPUT

- * TC SPEC.
- 4.9 < TC ≤ 14ms (X – BAND)
 - 3.6 ≤ TC ≤ 4.9ms (K – BAND)
 - 2.5 ≤ TC ≤ 3.ms (Ka – BAND)

* TC:

3. VG-2

* STANDARD frame



* NOMAL : (TP4)



* SIGNAL INPUT VG - 2 :
(TP11)



(TP3)



LOW FIXED : 11.250GHz

(TP4)



LOW FIXED : 280MHz

4. SAFETY ALERT SIGNAL.

- EMERGENCY VEHICLE(EV).

F1 : 24.110GHz
F2 : 24.230GHz

- ROAD HAZARD (RH)

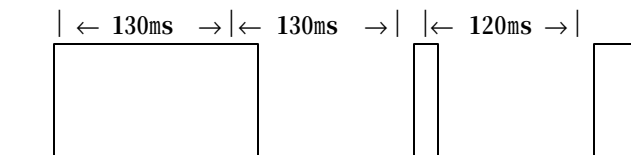
F1 : 24.070GHz
F2 : 24.110GHz

- RAIL ROAD (RR)

F1 : 24.110GHz
F2 : 24.190GHz

* NORMAL

(TP6)



10ms → | |←

(TP4)



* SIGNAL INPUT (TP5):
EV/RH/RR



(TP3)



HIGH FIXED : 11.670GHz (NO SWEEP)

(TP4)



LOW FIXED : 1030MHz

5. KEY OPERATION

(A) MUTE KEY(SW1)

Mute : with a received signal present, pressing this button mutes the audio alarm(audio off)

(B) DIM KEY (SW2)

Each push of the button will reduce the illumination level of the display to the next lower preset level, or if the brightness is already set to the lowest level will restore the display illumination to Full Bright.

(C) HWY / City KEY (SW3)

- HWY Mode.
- “C” LED will be turned off in “HWY” mode.
- While in Highway Mode the unit actuate normally.

CITY Mode.

- “C”LED will be turned on in “ CITY” mode.
- While in City Mode the unit must not actuate an audio alarm for a X-band signal(only)
Unit the signal strength reaches the preset City Mode level(-90dBm/).