Operator's Manual
TDL-424 Loran Navigator
(CAN/ARN-133 V2)
3. Loran Navigation System

(i) MODE switch to OPERATE

(ii) DISPLAY switch to POSITION

(iii) Compare displayed LAT/LNG coordinates with airport coordinates.

If difference less than approximately 30', go to step (v);
otherwise, continue

(iv) INITIALIZE Present Position

(1) MODE switch to INITIALIZE

(2) DISPLAY switch to POSITION

(3) Depress CLR key (if display does not blank, press CLR a second time)

(4) Depress POS 0 key (POSITION)

(5) Depress N 2 key (North Latitude)

(6) Enter 6 digits of present position latitude: 28 14 00

(7) Depress W/L 4 key (West Longitude)
(8) Enter 6 (or 7) digits of present position longitude: 803600
(9) Depress [INSERT] key

(v) Verify Loran Chain GRI (Group Repetition Interval)

(1) MODE switch to INITIALIZE
(2) DISPLAY switch to TK/TKE (Note: Top display is GRI)
(3) If GRI is correct, go to step (vi)
(4) Depress [CLR] key (if display does not blank, press again)
(5) Depress [GRI] 5 key
(6) Enter 4 digit GRI: _____
(7) Depress [INSERT] key

(vi) Verify secondary stations pair:

(1) MODE switch to ADVISE
(2) DISPLAY to TK/TKE
(3) If pair in use is correct, go to step (vii)
(4) Depress [CLR] key (if display does not blank, press [CLR] again)
(5) Depress [S] 8 key (S - secondary)
(6) Enter 2 secondary station numbers: ___
(7) Depress [INSERT] key

(vii) Verify Loran chain acquisition

(1) MODE switch to ADVISE
(2) DISPLAY switch to DIST/BRG

Top display

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? 7/7/7/7

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go back to step (vi)
(3) Note changing numbers: Each position should count up from 0 to 7 (7 indicates station locked in)

(4) After approximately 3 minutes the master and 2 or more secondaries should be 7

(5) If the master station digit does not change, i.e., remains a zero, go back to step 3 and recheck all entry data. If all data is correct, there may be a severe local interference. Continue

(6) The WARN light will go out within 30 seconds after the master and 2 secondaries are in track.

(viii) Set Loran to operate

(1) MODE switch to OPERATE

(2) DISPLAY switch to POSITION

(3) Verify WARN light not on

(4) Record display Lat/Lng