

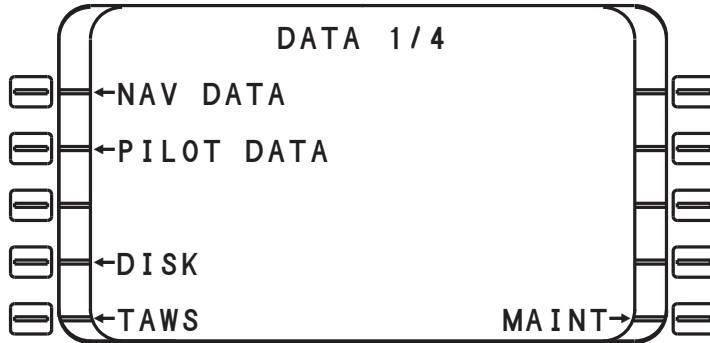
Terrain Database Loading Instructions for TAWS:

Installation and update of the Terrain database is accomplished through Universal’s Flight Management System and SSDTU or DTU-100. If there is not a Universal FMS installed, TAWS is updated directly using a Windows® compatible computer, SSDTU or DTU-100 and the Terminal Monitor Program.

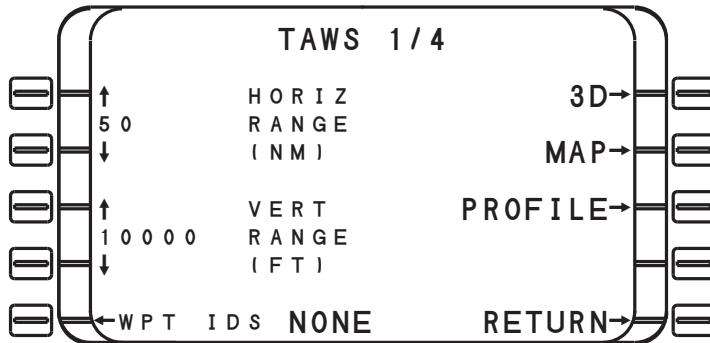
NOTE: If an SSDTU or DTU-100 is not installed, the **DISK** selection will not be displayed.

Database Loading through the FMS (TAWS SCN 10.5 and later)

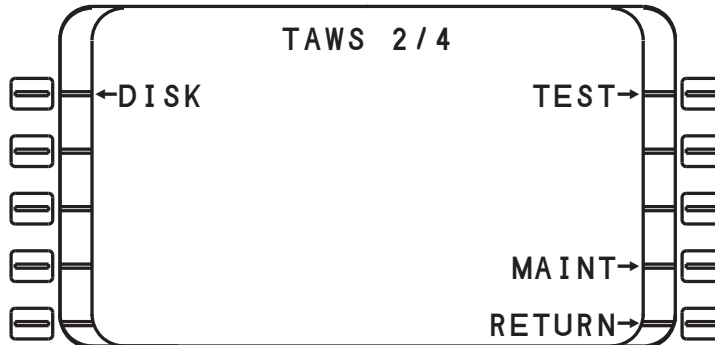
- (1) Press function key [DATA] on the FMS keyboard to display **DATA 1/4** page.



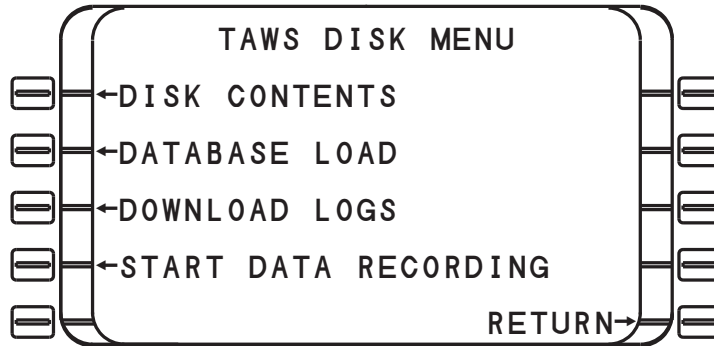
- (2) Press line select key (LSK) [5L] to display **TAWS 1/4** page.



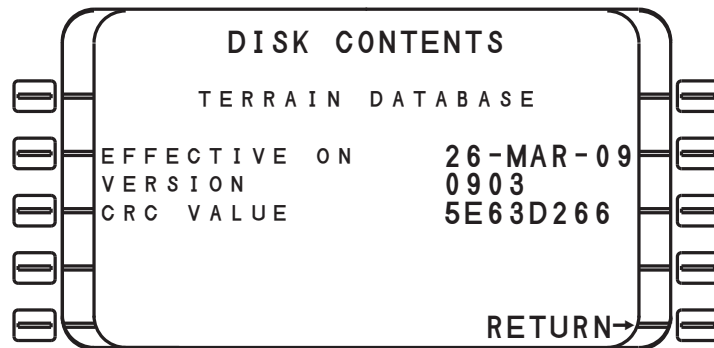
- (3) Press function key [NEXT] to display **TAWS 2/4** page.



- (4) Press LSK [1L] **DISK** to display **TAWS DISK MENU** page.



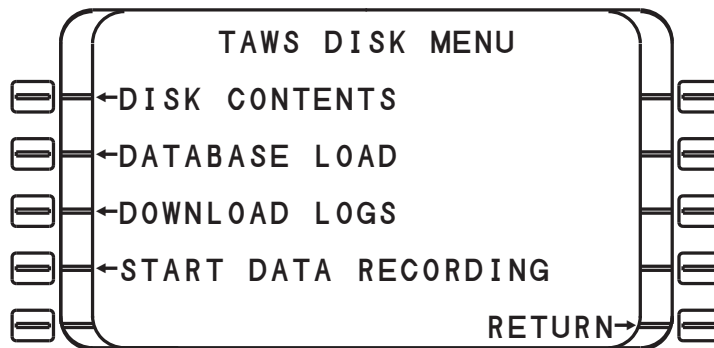
- (5) Insert the USB flash drive into the SSDTU or first disk into the DTU-100.
- (6) Press LSK [1L] to display **DISK CONTENTS** page.



- (7) Wait approximately 20 seconds for the disk to be read. Compare the disk information displayed with the data on the disk label; the Effective On - **26-MAR-09**, Version - **0903** and CRC Value - **5E63D266**. Press **RETURN** to exit.

NOTE: If disk contents are not filled after approximately 20 seconds, remove USB drive or eject the disk and reinsert and wait 20 seconds for the disk contents to fill.

- (8) Press **DATABASE LOAD** LSK [2L].



- (9) Press **LOAD LSK** [5L]. Once selected, the **LOAD** selection will disappear from the display. During the database loading process the text **LOADING** is displayed. **COMPLETE** is displayed after successful loading of the database.

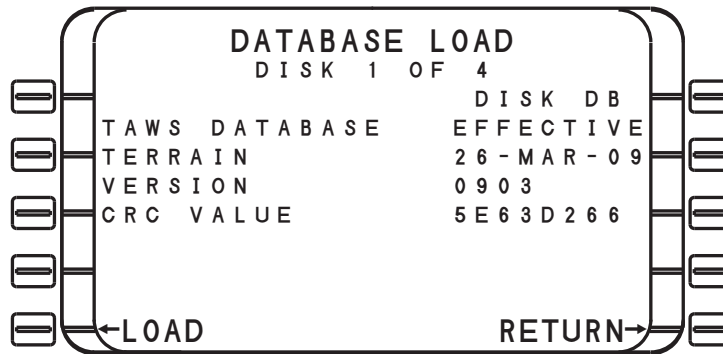
When the next disk in the database load is required, the message **INSERT DISK 2 OF 4** is displayed and repeated with the next disk in the sequence until all disks have been loaded.

NOTE: Only one USB drive is used to load the database.

NOTE: If the incorrect disk is inserted into the DTU the message **INCORRECT DISK FILE FOUND** is displayed.

NOTE: If the database load is aborted before completion, the **TERR INOP** annunciator will illuminate and the display will go blank.

NOTE: If an error is detected during the database loading process, a message corresponding to the error condition is displayed on the **DISK MENU** page.



- (10) Upon completion of database load, TAWS will shutdown and reboot and display a pop-up message window **“TAWS/FMS COMM ERROR RESELECT TAWS”**.

NOTE: The **TAWS** line select key will become active when TAWS restarts. The **COMM ERROR** message will be displayed until the **TAWS** line select key is reselected.

Database Loading through a Personal Computer (PC)

If there is not a Universal FMS installed, TAWS is updated directly using a Windows[®] compatible computer, SSDTU or DTU-100 and the Terminal Monitor Program.

- (1) Connect an RS-232 cable to the cockpit TAWS RS-232 Monitor Port and the other end to a PC.
The Terminal Monitor Program is only displayed on the PC.
- (2) Start the PC.
- (3) Apply power to TAWS and the onboard SSDTU or DTU-100, or, connect a portable SSDTU or portable DTU-100 and apply power.
- (4) On the PC start the Terminal Monitor Program.
- (5) From the Terminal Monitor menu enter **Page 30** to select DTU Options page.
- (6) Insert the Database USB flash drive into the SSDTU or Zip disk into the DTU-100.
- (7) On the DTU Options page tab down to the **LOAD DB** command and press **Enter** on the PC.
The DTU Options page will display the Version, Effectivity Date and CRC of the database that is being loaded.
- (8) On the DTU Options page tab down to the **CONTINUE** command and press **Enter**.
- (9) The loading process will begin.
- (10) When instructed, insert the next database disk. Repeat this until loading is complete.

NOTE: One USB drive contains the entire Terrain Database.

When the database has finished loading, **LOAD COMPLETE** is displayed and after 10 seconds TAWS will begin rebooting.

- (11) After TAWS has completed rebooting and the Terminal Monitor Program is displayed, enter **Page 26** to select the **Misc. Data (SCNs, CRCs)** to verify that the Database and Effectivity Date of the database loaded is correct and no errors occurred during loading.
- (12) Disconnect and remove PC, SSDTU or DTU-100 (if applicable) and cables.

Database Installation Failure

If the database fails to load:

- If the database has an incorrect CRC, reload the database.
- If a particular disk fails to load, retry to load the disk and continue loading.
- If a failure continues to occur during the load process replace the SSDTU or DTU-100 and attempt to reload database.
- If the failure persists return the TAWS unit to Universal Avionics.