

Apollo[®] NMS 2001/2101

Quick Reference Guide

How To Use This Guide


SEL Press the button shown


 Turn the Data (small) knob

 Turn the Control (large) knob

Selecting Position Sensor For Navigation

NAV Accesses Navigation Mode

 Turn Large knob to display Latitude/Longitude page.

 Turn Small knob to display the sensor to be used.

SEL Press SEL to select for use.

ENT Press ENT to verify sensor.



```
GPS      IN USE(A)
 45 ° 11.87 PDOP
122 ° 53.30 0.0 ◆
```

```
LORAN  STANDBY
 36 ° 11.90
095 ° 53.28
```

```
GPS      USE ?
 36 ° 11.90
095 ° 53.28
```

Direct-TO Navigation

-D→ Accesses Direct-TO feature

  Use Large and Small knobs to retrieve your desired destination waypoint.

ENT Press ENT to verify destination waypoint

```
LIT  AIRPORT
LITTLE ROCK
CITY  AR  USA
```

```
ETE  LIT  00:53
      +
BRG 134  91.5NM ◆
```

Flight Plan Entry

FPL Accesses Flight Plan Mode

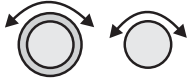
```
PRESS SEL TO  
CREATE A NEW  
FLIGHT PLAN
```



Turn Large knob to the "Create a New Flight Plan" display.

SEL Press SEL to begin.

```
-- -- -- --  
ENTER A NEW  
PLAN NAME
```



Use Large and Small knobs to name flight plan.

ENT Press ENT to enter flight plan name.

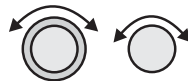


Turn Small knob clockwise one click. Press SEL and ENT to insert waypoint and access waypoint retriever.

SEL

ENT

```
-- -- -- -- TO  
1 PRESS SEL  
TO EDIT LEG
```



Retrieve first waypoint using Large and Small knobs.

```
HOU AIRPORT  
HOUSTON  
CITY TX USA
```

ENT



Continue with ENT and rotary knobs until last waypoint has been inserted.

SEL After last waypoint has been retrieved and entered, press SEL.

```
MSP TO INS?  
4 ° NM  
LEG ET E? _ : _
```

Activate A Flight Plan



Accesses Flight Plan Mode.

```
TRIP 1 930NM  
HOU TO MSP  
INACTIVE
```



Turn Large knob to display desired flight plan.

SEL

Press SEL and ENT buttons to activate.

ENT

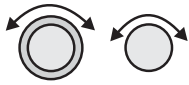
For more detailed information on using the Flight Plan see Flight Plan Mode in the NMC 2001 Operation Manual.

Creating A Present Position Waypoint

FPL Accesses Database Mode.
Displays user waypoint
page.

```
CREATEUSERWPT
BY LAT/LON
PRESENT
```

ENT Press ENT to begin.



Use Rotary knobs to name
this waypoint and specify
runway length.

```
HANGAR
44°12.59NRWLEN
085°33.08W2500'
```

ENT Press ENT to save
waypoint to user database.

Emergency Navigation

EMG Nearest airport is displayed.

```
NEAR1 TO PPOS
8D1 AIRPORT
BRG 130°10.7NM
```



Turn Small knob to view
other nearby airports.



Turn Large knob to display
closest VORs, NDBs,
Intersections, User
waypoints, and special-use
airspaces. Turn Small
knob to display emergency
destination waypoint.

```
NEAR2 TO PPOS
OSH AIRPORT
BRG 250°11.3NM
```



Press to activate Direct-TO
feature, then press ENT to
verify destination waypoint.

```
NEAR1 TO PPOS
OSH AIRPORT
BRG 252°11.0NM
```



Waypoint Retrieval

When accessing the database, pressing and re-pressing SEL toggles between flashing a single character and flashing the entire field. Any character(s) that is flashing can be changed with the Small knob, while turning the Large knob moves the location of the flashing cursor.

To Change WAYPOINT IDENTIFIER

Turn Small knob to change character at flashing cursor.

Turn Large knob to move cursor to next character.

To Change FIELD

Press SEL to make field flash.

Turn Large knob to select different field.

Turn Small knob to change field.

Button And Knob Use

MSG When MSG flashes, press to display important messages.

-D→ Allows entry of Direct-TO destination waypoint.

INFO Displays information on the waypoint or flight plan in view
- turning the Small knob displays any additional pages of information.

SEL Activates character editing - single character flashes.

SEL SEL In Waypoint Retriever mode, toggles between character and field editing - all characters in field flash.

ENT Saves editing changes and acknowledges "Yes" to prompts such as "DEL?"

Mode Buttons (NAV, DB, FPL, & SYS)

- Press to access mode
- Press twice to display "Home" page for that mode

Large Knob

- With no cursor flashing, scrolls display to next major page
- With cursor flashing, moves cursor to next changeable character or field

Small Knob

- With cursor activated, changes flashing character or field
- Displays next sub-page when diamond is displayed in lower right-hand corner

For help on retrieving waypoints, see the BASIC CONCEPTS section of the Operation Manual

Approach Checklist




Location	Action
Enroute	Load Approach
Within 30 nm of Destination	Enable Approach & enter altimeter setting (Approach annunciator turns ON) (CDI goes to 1 nm full-scale sensitivity)
IAF Active Waypoint	Verify Approach annunciator is ON Set OBS/HLD: ON for Procedure Turn or Hold OFF to sequence
FAF Active Waypoint	Verify green Approach-Active annunciator is ON Verify altimeter setting is entered Set OBS/HLD: OFF to sequence to MAP
At FAF (MAP Becomes Active)	Verify Approach-Active annunciator is ON (CDI goes to 0.3 nm full-scale sensitivity)
At MAP (TO/FROM Transition)	If NOT landing: Press OBS/HLD to cancel Approach-Active (Green Approach-Active annunciator turns OFF) (Approach Annunciator remains ON) (CDI goes to 1.0 nm full-scale sensitivity)
MAHP Active Waypoint	Verify OBS/HLD is ON

Approach Setup Summary

A. Load Destination Airport

- SEL** Load a destination airport. Load a stored Flight Plan, or edit the active Flight Plan. You may also use the
- or
- D→** Direct-TO button to choose a destination. The destination must be an airport that has an established approach capability.
-

B. Load Approach Information

- FPL** 1. Press FPL to reach Flight Plan Mode.
-  2. Turn the Large knob to display the desired destination waypoint.
- SEL** 3. Press SEL.
- ENT** 4. Press ENT to prepare to load approach waypoints.
-  5. Turn the Small knob to display the available approach choices.
- ENT** 6. Press ENT to select the displayed approach path.
-  7. Turn the Small knob to display the approach legs.
- NAV** 8. Press NAV to return to Navigation Mode.
- ```
* ACTIVE * 67 nm
DEST WPT: SLE
LOAD APPROACH?
```
- ```
* ACTIVE *      67 nm
NDB 31: BTG 44
APPROACH: SLE
```
- ```
BTG 44 TO SL
2 * 178° 12.1 nm
IAF FAF
```

---

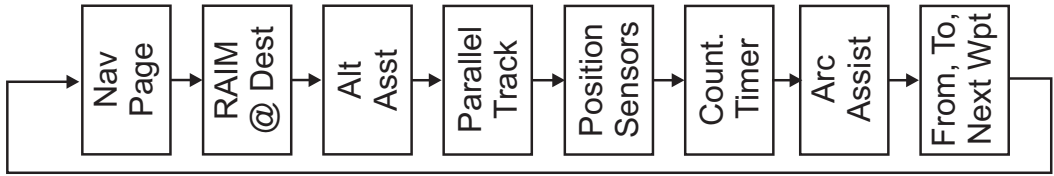
## DME-Arc Checklist


| Location              | Action                                                                                                                                                                                                                                                                                        |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| At Arc Intercept      | <ol style="list-style-type: none"><li>1. Verify/Set OBS/HLD ON</li><li>2. Manually select Flight Plan leg to intercept</li><li>3. USE DME-Arc Page in NAV mode</li><li>4. Verify or select DME-Arc Reference Waypoint</li><li>5. Verify/Set autopilot in Heading mode or disengaged</li></ol> |
| On Arc                | <ol style="list-style-type: none"><li>1. Use DME-Arc page in NAV mode and aircraft heading to navigate</li><li>2. Use CDI/HSI to identify inbound leg intercept</li></ol>                                                                                                                     |
| Inbound Leg Intercept | <ol style="list-style-type: none"><li>1. Set/Verify OBS/HLD OFF</li><li>2. Use CDI/HSI to navigate</li><li>3. Press NAV twice to use standard NMC NAV mode page</li><li>4. Use autopilot as desired</li></ol>                                                                                 |

# NMC Function Summary

**NAV**

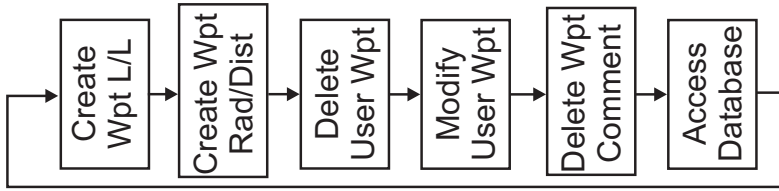
**NAV Mode**



Turn Large knob to view top level pages 

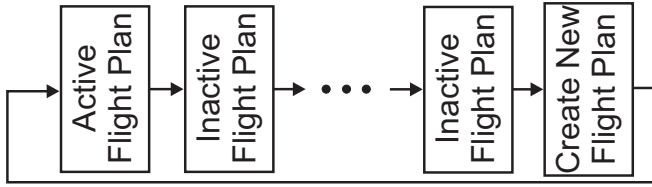
**DB**

**Database Mode**



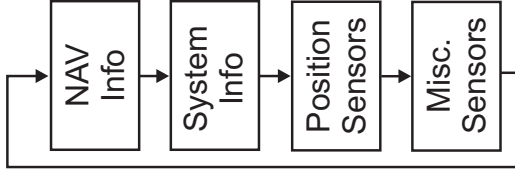
**FPL**

**Flight Plan Mode**



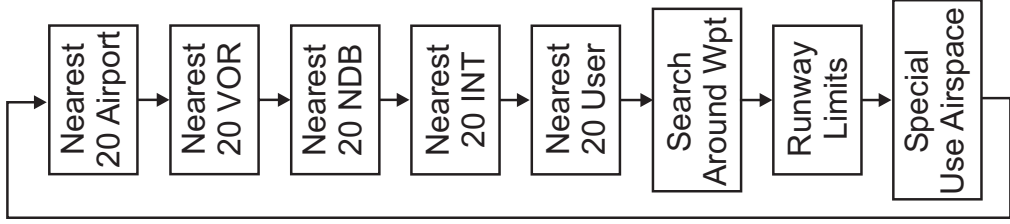
**SYS**

**System Mode**



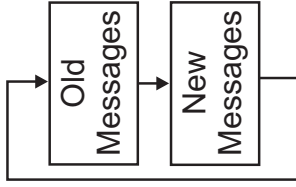
**EMG**

**Emergency Search**



**MSG**

**Messages**



Press the indicated button and then turn the Large knob to view the pages shown. Turn the Small knob for further info when available (diamond shown).

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http://www.iiorrow.com  
P/N 561-0228-00 April 1996  
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