

3.8 Initializing the GPS and Checking the Status of GPS Reception

3.8.1 Initializing the GPS

To initialize the GPS



Press to select "INITIALIZE GPS/GPS STATUS" from the MENU screen and press . Then, enter each GPS setup item from the INITIALIZE GPS/GPS STATUS screen and press to send the initialization items to the sensor.

- This menu option initializes the built-in GPS receiver. The built-in GPS receiver is a sensor type receiver, such as the Model JLR-4310 receiver.
- The built-in GPS receiver can make positional measurements even if it is not initialized. When it is used for the first time, however, it may take longer than 10 minutes for the receiver to receive any significant signal.
- Setup items
 - Current position: Latitude and longitude values measured in seconds will suffice.
 - Time difference from UTC: Required to display the local time. Add 9 hours to this value for Japan.
 - Exclusion satellite: Use of an unhealthy satellite may degrade accuracy. Any unhealthy number you entered is ignored.
 - Geodetic system: Errors may occur between the current position and shorelines if the geodetic data does not match that stored on the shoreline ROM card. Enter the number of a geodetic system that is listed on the page 72. The geodetic system number for Japan is 02.
 - Antenna height: Enter the height of the top of the antenna from the sea level.
 - Fixed mode: 2D (two-dimensional) provides greater measurement stability since the antenna height for vessels is constant.
 - DOP level: Specify 10, 5, or any lower value for higher measurement precision.
Caution If the JLR-4320J or JLR-4321J is connected, specifying 5 or any lower value causes the value set to 4 or less in the receiver internally.
 - Position averaging: Select LONG to minimize positioning fluctuations, but at the cost of slower responses. Select NONE for better responses, but at the cost of increased positioning fluctuations..

● Steps

- 1 Press **(MENU)** on the PLOT screen to switch to the MENU screen.
- 2 Press **(▲▼)** to select 7, "INITIALIZE GPS/GPS STATUS," and press **(ENT)** to switch to the INITIALIZE GPS/GPS STATUS screen.
- 3 Press **(▲▼)** to select GPS setup items and type values with numeric keys.
- 4 When you have entered all the GPS setup items required, select 1 for SET DATA and press **(ENT)** key. The setup values are sent to the sensor. A comment reporting the completion of transmission appears when the setup values successfully reach the sensor. In the event of unsuccessful transmission, a comment reporting the occurrence of a transmission error appears, calling upon you to check up the sensor and cable connection.
- 5 Press **(MENU)** to return to the PLOT screen.

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INITIALIZE GPS/GPS STATUS

Send complete

INITIALIZE GPS
DATE 12/01/1996 LOC.TIME 16:52
POSITION LAT N 35° 42.00'
           LON E 139° 34.00'
TIME DIFF. for UTC +09:00
EXCLUSION SAT. EXC 00 SAT. EXCLUDED
                ADD 00
GEODETTIC 02 Japan
ANT HEIGHT +0100 M
FIX MODE 2 0:2D 1:3D 2:AUTO
DOP LEVEL 2 0:up to 5 1:up tp 10 2:up to 20
POS AVERAGE 2 0:LONG 1:MID 2:SHORT
SET DATA 1 0:Discard 1:Send data

GPS STATUS
GPS RCV TIME 07:52
N 35° 41.088' E 139° 34.470'
3D- ALT +0051 DOP 01

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RCV SAT	01	25	06	30	22	29	14	05
FIX	USE	USE	USE	USE	USE	USE	--	--
AZIMUTH	171	321	104	044	242	319	315	052
ELEVAT	65	56	50	42	22	07	08	07
LEVEL	27	22	29	26	18	16	00	00
STATUS	D	D	D	D	D	D	S	S

To return to PLOTMENU, push (MENU) Key.

INITIALIZE GPS/GSP STATUS screen