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2018 Nissan Frontier Service and Repair Manual

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| Monitored item [Unit] | ALL SIGNALS | Description |
|---|----------------|---|
| [km] | | |
| Vehicle speed [km/h] | × | Displays value of vehicle speed |
| Shift position [OFF,P,R,N,D,B] | × | Displays shift position |
| Ignition [OFF,ACC,IGN,Checking] | × | Displays status of power switch |
| G sensor initial learn value (X) [G] | × | Displays the value (X-axis: lateral direction) set when HD map module calibration (initial learning) is performed |
| G sensor initial learn value (Y) [G] | × | Displays the value (Y-axis: longitudinal direction) set when HD map module calibration (initialization learning) is performed |
| G sensor initial learn value (Z) [G] | × | Displays the value (Z-axis: vertical direction) set when HD map module calibration (initialization learning) is performed |
| IMU sensor temperature [°C] | × | Displays the value detected by temperature sensor |
| Gyro current value X [deg/s] | × | Displays X-axis (lateral) value of the current position detected by the gyro sensor |
| Gyro current value Y [deg/s] | × | Displays Y-axis (longitudinal) value of the current position detected by the gyro sensor |
| Gyro current value Z [deg/s] | × | Displays Z-axis (vertical) value of the current position detected by the gyro sensor |
| Gyro offset learning value (X) [deg/s] | × | Displays the offset compensation value for X-axis (lateral direction) of the gyro sensor |
| Gyro offset learning value (Y) [deg/s] | × | Displays the offset compensation value for Y-axis (longitudinal direction) of the gyro sensor |
| Gyro offset learning value (Z) [deg/s] | × | Displays the offset compensation value for Z-axis (vertical direction) of the gyro sensor |
| Gyro sensitv corret learn value | × | Displays the value that compensates the sensitivity of the gyro sensor |
| G sensor pitch correct value | × | Displays the value that compensates the pitch angle due to the installation angle of |




| Monitored item [Unit] | ALL SIGNALS | Description |
|---|----------------|---|
| [deg] | | HD map module |
| GPS positioning status [No posi, 2D posi, 3D posi, Time] | × | Displays GPS positioning status |
| GPS position info (Latitude) [rad] | × | Displays latitude information acquired by GPS |
| GPS position info (Longitude) [rad] | × | Displays longitude information acquired by GPS |
| GPS position info (Ellipsoid) [mm] | × | Displays altitude (height) of the ellipsoidal sphere acquired by GPS |
| GPS position info (Geoid) [mm] | × | Displays altitude (height) from the geoid surface acquired by GPS |
| GPS speed info (Vehicle speed) [mm/s] | × | Displays vehicle speed information acquired by GPS |
| GPS azimuth info [deg] | × | Displays directional information acquired by GPS |
| Vehicle speed correction value | × | Display the correction value of the vehicle speed calculated from the self-position estimation |
| Map ver. (Full) year [year] | × |  NOTE: The item is displayed, but it is not used |
| Map ver. (Full) month [month] | × |  NOTE: The item is displayed, but it is not used |
| Map ver. (Full) status [I/D] | × | Displays status of map data |
| Map ver. (Full) number | × | Displays the serial number of map data |
| Map ver. (Partial) year [year] | × | Displays what year's map data is used |
| Map ver. (Partial) month [month] | × | Displays what year the map data in use made |
| Map ver. (Partial) day [day] | × | Displays what month the map data in use made |
| Map ver. (Partial) hour [hour] | × | Displays what day the map data in use made |

| Monitored item [Unit] | ALL SIGNALS | Description |
|--|-------------|--|
| Map ver. (Partial) minutes [minute] | × | Displays what minute the map data in use made |
| Power supply voltage [V] | × | Displays power supply voltage value of 12 volt battery |
| Map update progress (USB) [%] | × |  NOTE: The item is displayed, but it is not used |
| Map update license [Valid, Invalid] | × | Displays the validity status of the license required to update the map |
| license expiration date [year] | × | Displays the license expiration date (day) for map update |
| License expiration month [month] | × | Displays the license expiration date (month) for map update |
| USB connection status | × |  NOTE: The item is displayed, but it is not used |
| Map update status (Data type) | × |  NOTE: The item is displayed, but it is not used |
| G sensor learning value X [G] | × | Displays the current position value (learning position value is updated periodically) of G sensor learning position value (X-axis: lateral direction) |
| G sensor learning value Y [G] | × | Displays the current position value (learning position value is updated periodically) of G sensor learning position value (Y-axis: longitudinal direction) |
| G sensor learning value Z [G] | × | Displays the current position value (learning position value is updated periodically) of G sensor learning position value (Z-axis: vertical direction) |
| Gyro offset initial learn value X [deg/s] | × | Displays the position value of X-axis (lateral direction) detected by the gyro sensor at the time of factory delivery |

| <p style="text-align: center;">Monitored item</p> <p style="text-align: center;">[Unit]</p> | <p style="text-align: center;">ALL SIGNALS</p> | <p style="text-align: center;">Description</p> |
|---|---|--|
| Gyro offset initial learn value Y [deg/s] | × | Displays the position value of Y-axis (longitudinal direction) detected by the gyro sensor at the time of factory delivery |
| Gyro offset initial learn value Z [deg/s] | × | Displays the position value of Z-axis (vertical direction) detected by the gyro sensor at the time of factory delivery |
| ECU instll ang lrn ltst val Roll [deg] | × | Displays the current position value of the installation angle learning position value (roll direction) of HD map module |
| ECU instll ang lrn ltst val Pitch [deg] | × | Displays the current position value of the installation angle learning position value (yaw direction) of HD map module |
| Intrnl area 1 prog update cntr [count] | × | Displays the number of program updates for the internal domain 1 of HD map module |
| Intrnl area 2 prog update cntr [count] | × | Displays the number of program updates for the internal domain 2 of HD map module |
| Intrnl area 3 prog update cntr [count] | × | Displays the number of program updates for the internal domain 3 of HD map module |
| Intrnl area 4 prog update cntr [count] | × | Displays the number of program updates for the internal domain 4 of HD map module |
| Intrnl area 5 prog update cntr [count] | × | Displays the number of program updates for the internal domain 5 of HD map module |
| ECU instll angle learn val Roll [deg] | | Displays the value (roll direction) set when HD map module calibration (initialization learning) is performed |
| ECU instll angle learn val Pitch [deg] | | Displays the value (yaw direction) set when HD map module calibration (initialization learning) is performed |

| Monitored item [Unit] | ALL SIGNALS | Description |
|--|----------------|--|
| FOTA status [Waiting, Receiving, Copying, Checking the vehicle status, Preparing to start, Switching, Rebooting, Checking the version, Configuration is running, Startup complete, Error1, Canceling, Error2, During rollback, Rollback complete] | | Displays software update status by automatic software update function (OTA) |
| FOTA cancel counter | | Displays the number of times software updates canceled by automatic software update function (OTA) |

WORK SUPPORT

| Work support items | Description |
|-----------------------------|---|
| HD map module calibration | G sensor value is initialize after installation to compensate the installation error due to the installation angle |
| USB MAP UPDATE |  NOTE: The item is displayed, but it is not used |
| USB MAP UPDATE STATUS CHECK |  NOTE: The item is displayed, but it is not used |
| OTA status reset |  NOTE: The item is displayed, but it is not used |

ECU IDENTIFICATION

Displays HD map module parts number.

| Display item | Description |
|------------------|--|
| ECU parts number | Displays parts number of HD map module |

CONSULT Function (LASER/RADAR)

SIEMD-7109098

Refer to [CONSULT Function \(LASER/RADAR\)](#).

Sample

CONSULT Function (LANE CAMERA)

SIEMD-7109100

Refer to [CONSULT Function \(LANE CAMERA\)](#).

Sample

CONSULT Function (SIDE RADAR REAR LH)

SIEMD-7254851

Refer to [CONSULT Function \[Side radar \(Rear left\)\]](#).

Sample

CONSULT Function (SIDE RADAR REAR RH)

SIEMD-7254852

Refer to [CONSULT Function \[Side radar \(Rear right\)\]](#).

Sample