

Your Ultimate Source for OEM Repair Manuals

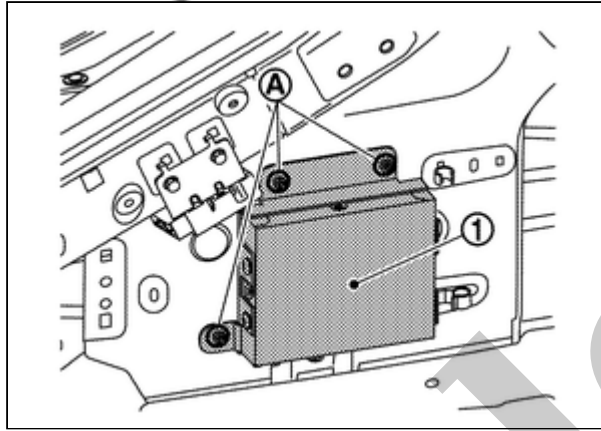
FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2017 NISSAN Quest OEM Service and Repair Workshop Manual

[Go to manual page](#)

REMOVAL

- 1 Remove the luggage side lower finisher LH. Refer to [Removal & Installation](#).
- 2 Disconnect the harness connector.
- 3 Remove the around view monitor control unit bolts (A), and then remove the around view monitor control unit (1).



RPR-001899211-02-000357589

- 4 Remove the bracket mounting screws, and then remove the brackets from the around view monitor control unit.

INSTALLATION

Installation is the reverse order of removal.

CAUTION:

Perform the “ADDITIONAL SERVICE WHEN REPLACING AROUND VIEW MONITOR CONTROL UNIT” when after replacing around view monitor control unit. Refer to [Description](#).

VALUES ON THE DIAGNOSIS TOOL










NOTE:





The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.




| Monitor Item | Condition | | Value/Status |
|-----------------------------------|-------------------|---|--------------|
| Reverse signal | [Power switch ON] | R position | On |
| | | Other than R position | OFF |
| Camera switch signal | [Power switch ON] | When camera switch signal is input | On |
| | | Other than the above | Off |
| Camera off signal | [Power switch ON] | | Off |
| Rear camera image signal | [Power switch ON] | When rear camera image signal input status is normal | OK |
| | | When rear view camera image signal input status is not normal | NG |
| Rear camera communication status | [Power switch ON] | When communication status with rear camera is normal | OK |
| | | When communication status with rear camera is not normal | NG |
| Rear camera communication line | [Power switch ON] | When communication line with rear camera is normal | OK |
| | | When communication line with rear camera is not normal | NG |
| Front camera image signal | [Power switch ON] | When front camera image signal input status is normal | OK |
| | | When front camera image signal input status is not normal | NG |
| Front camera communication status | [Power switch ON] | When communication status with front camera is normal | OK |
| | | When communication status with front camera is not normal | NG |
| Front camera communication line | [Power switch ON] | When communication line with front camera is normal | OK |
| | | When communication line with front camera is not normal | NG |
| Left camera image signal | [Power switch ON] | When side camera LH image signal input status is normal | OK |
| | | When side camera LH image signal input status is not normal | NG |
| Left camera communication status | [Power switch ON] | When communication status with side camera LH is normal | OK |
| | | When communication status with side camera LH is not normal | NG |
| Left camera line | [Power switch ON] | When communication line with side camera LH is normal | OK |
| | | When communication line with side camera LH is not normal | NG |
| Right camera image signal | [Power switch ON] | When side camera RH image signal input status is normal | OK |
| | | When side camera RH image signal input status is not normal | NG |
| Right camera communication status | [Power switch ON] | When communication status with side camera RH is normal | OK |
| | | When communication status with side camera RH is not normal | NG |
| Right camera line | [Power switch ON] | When communication line with side camera RH is normal | OK |

| Monitor Item | Condition | | Value/Status |
|-------------------------|--|---|-------------------------------------|
| | | When communication line with side camera RH is not normal | NG |
| Folding motor voltage 1 | Passenger side door mirror is in retracted status | | OFF |
| | Passenger side door mirror is in expanded status | | ON |
| Folding motor voltage 2 | Passenger side door mirror is in retracted status | | ON |
| | Passenger side door mirror is in expanded status | | OFF |
| Switch1 | [Power switch ON] | When ProPILOT Park switch is not pressed | Released |
| | | When ProPILOT Park switch is pressed | Pushed |
| Switch2 | [Power switch ON] | When ProPILOT Park switch is not pressed | Released |
| | | When ProPILOT Park switch is pressed | Pushed |
| Average vehicle speed | While driving | | Input value of vehicle speed signal |
| Image output | [Power switch ON] | When camera image displayed | On |
| Power supply state | [Power switch ON] | sleep mode | State1 |
| | | — | State2 |
| | | Cutoff Pending | State3 |
| | | Auto ACC ON | State4 |
| | | — | State5 |
| | | Power switch ON | State6 |
| | | | State7 |
| | | READY state | State8 |
| | | Automatic brake hold OFF | State9 |
| | | Automatic brake hold ON | State10 |
| | | — | State11 |
| | | — | State12 |
| VehicleSpeed1 | While driving | | Input value of vehicle speed signal |
| GADE | Cranking or Power switch OFF and auto ACC ON | | Allow err detection (Cranking) |
| | Power switch OFF and auto ACC ON | | Allow err detection (ACC) |
| | Power switch OFF and auto ACC ON (When the battery voltage is low) | | All err 1 (Excluding CAN diag) |
| | Power switch ON and auto ACC ON (READY state) | | All err 2 (Including CAN diag) |
| | When software is automatically updated | | Prohibit err detection |
| AVM Gear Engaged | [Power switch ON] | Selector lever: P position or N position | Parking/Neutral |
| | | Selector lever: R position | Rear |
| | | Selector lever: D position or B position | Drive |
| | | — | Unavailable |
| MAIN switch | [Power switch ON] | When ProPILOT switch is pressed | On |
| | | When ProPILOT switch is not pressed | Off |

| Monitor Item | Condition | | Value/Status |
|--------------------------|--|--|-------------------------------------|
| Brake switch | [Power switch ON] | Brake pedal depressed | On |
| | | Brake pedal not depressed | Off |
| Stop lamp switch | [Power switch ON] | Brake pedal depressed | On |
| | | Brake pedal not depressed | Off |
| Stop lamp active signal | [Power switch ON] | When the around view monitor control unit transmits the stop lamp request signal | On |
| | | Other than the above | Off |
| Idol switch |  NOTE: This item display, but not use. | | |
| Vehicle speed signal | While driving | | Input value of vehicle speed signal |
| Set vehicle speed signal | When vehicle speed is set | | Displays the set vehicle speed |
| D range | [Power switch ON] | Selector lever: D position or B position | On |
| | | Other than the above | Off |
| N/P range switch | [Power switch ON] | Selector lever: R position or N position | On |
| | | Other than the above | Off |
| Parking switch signal | [Power switch ON] | Parking brake is active | On |
| | | Parking brake is inactive | Off |
| Gearbox position |  NOTE: This item display, but not use. | | |
| Wiper switch | [Power switch ON] | Front wiper stopped | OFF |
| | | Front wiper LO operation | Low |
| | | Front wiper HI operation | High |
| Wiper signal |  NOTE: This item display, but not use. | | |
| VDC active signal | [Power switch ON] | VDC is active | ON |
| | | VDC is inactive | OFF |
| VDC malfunction status | [Power switch ON] | When ABS actuator and electric unit DTC is detected. | ON |
| | | Other than the above | OFF |
| VDC OFF switch | [Power switch ON] | VDC OFF | ON |
| | | VDC ON | OFF |
| ABS active signal | [Power switch ON] | ABS is active | ON |
| | | ABS is inactive | OFF |
| ABS malfunction status | [Power switch ON] | When ABS actuator and electric unit DTC is detected. | ON |
| | | Other than the above | OFF |

| Monitor Item | Condition | | Value/Status |
|-------------------------------|--|--|--------------|
| TCS active signal | [Power switch ON] | TCS is active | ON |
| | | TCS is inactive | OFF |
| TCS malfunction status | [Power switch ON] | When ABS actuator and electric unit DTC is detected. | ON |
| | | Other than the above | OFF |
| Door open | [Power switch ON] | Any door open | ON |
| | | All doors are closed | OFF |
| Door switch |  NOTE: This item display, but not use. | | |
| ePKB keep request |  NOTE: This item display, but not use. | | |
| Vehicle speed | While driving | Input value of vehicle speed signal | |
| Engine start flag |  NOTE: This item display, but not use. | | |
| Preceding car recognition | [READY state] | When a vehicle ahead is detected | OK |
| | | Other than the above | NG |
| Camera error | [Power switch ON] | Front camera unit is abnormal | ON |
| | | Front camera unit is normal | OFF |
| ACC warning output | [Power switch ON] | When the ProPILOT system malfunction message is displayed on the combination meter | ON |
| | | Other than the above | OFF |
| ACC buzzer output | [Power switch ON] | When the buzzer of the combination meter is operating due to the operation of the Driver Assistance System | ON |
| | | Other than the above | OFF |
| Display of units | [Power switch ON] | | km/h |
| System ready status | READY state | | ON |
| | Other than the above | | OFF |
| Release switch (normal open) | [Power switch ON] | Brake pedal depressed | ON |
| | | Brake pedal not depressed | OFF |
| Release switch (normal close) | [Power switch ON] | Brake pedal not depressed | ON |
| | | Brake pedal depressed | OFF |
| Trunk switch | [Power switch ON] | Back door opened | Open |
| | | Back door closed | Closed |
| Market |  NOTE: This item display, but not use. | | |

| Monitor Item | Condition | | Value/Status |
|----------------------------------|--|------------------------------------|--------------------------------------|
| SNOW switch |  NOTE: This item display, but not use. | | |
| Camera high temp message |  NOTE: This item display, but not use. | | |
| Yaw rate | When driving straight | | Approx. 0 °/s |
| | Turning right | | (0) - (-200) °/s |
| | Turning left | | 0 - 200 °/s |
| ADAS power supply voltage | [Power switch ON] | | 10 – 16 V |
| Wheel speed signal (front right) | While driving | | Increases according to vehicle speed |
| Wheel speed signal (front left) | While driving | | Increases according to vehicle speed |
| Wheel speed signal (right rear) | While driving | | Increases according to vehicle speed |
| Wheel speed signal (left rear) | While driving | | Increases according to vehicle speed |
| Accelerator opening signal | [Power switch ON] | Accelerator pedal is not depressed | 0% |
| | | Accelerator pedal is depressed | 0 – 100% |
| Steering angle | When driving straight | | ±2.5° |
| | When steering wheel is steered to RH by 90° | | Approx. +90° |
| | When steering wheel is steered to LH by 90° | | Approx. -90° |
| Steering angle speed | When steering wheel is steered (READY state) | | Input value of Steering angle speed |
| Driver Yaw rate | Vehicle stopped | | Approx.0 °/s |
| | Turning right | | (0) - (-200) °/s |
| | Turning left | | 0 - 200 °/s |
| Yaw speed | When steering wheel is steered | | (-30) - (+30) °/s ² |
| Shift position | While driving | | Displays shift position |
| Side G | Turning right | | Negative value |
| | Turning left | | Positive value |
| Steering angle (Correction) |  NOTE: This item display, but not use. | | |
| Brake drive |  NOTE: This item display, but not use. | | |

| Monitor Item | Condition | | Value/Status |
|-------------------------|--|---|--------------|
| ICC buzzer drive signal |  NOTE: This item display, but not use. | | |
| ICC warning lamp |  NOTE: This item display, but not use. | | |
| Stop lamp drive signal | [Power switch ON] | When the around view monitor control unit transmits the stop lamp request signal | ON |
| | | Other than the above | OFF |
| Dynamo driving mode |  NOTE: This item display, but not use. | | |
| ePKB active | [Power switch ON] | EPKB is active | ON |
| | | EPKB is inactive | OFF |
| Hands off warning | [Power switch ON] | When the hands off warning lamp is ON. | ON |
| | | When the hands off warning lamp is OFF. | OFF |
| Emergency display | [Power switch ON] | When the emergency display is ON. | ON |
| | | When the emergency display is OFF. | OFF |
| Emergency alert | [Power switch ON] | When the emergency alert buzzer is operate | ON |
| | | When the emergency alert buzzer is not operate | OFF |
| Hazard lamp | [Power switch ON] | When the hazard lamp for emergency stop of the vehicle is operating during steering wheel assistance function control | ON |
| | | Other than the above | OFF |

TERMINAL LAYOUT



SIEMD-7110491-02-000357793

PHYSICAL VALUES

| Terminal (Wire color) | | Description | | Condition | | Standard | Reference value (Approx.) |
|---|----------|--|--------------|-------------------|---|---------------|------------------------------|
| + | - | Signal name | Input/Output | | | | |
| 2 (B) | Ground | Ground | — | [Power switch ON] | | 0.1 V or less | 0 V |
| 3 (B) | Ground | Ground | — | [Power switch ON] | | 0.1 V or less | 0 V |
| 5 (BR) | — | CAN-H | Input/Output | — | | — | — |
| 8 (LG) | — | CAN-L | Input/Output | — | | — | — |
| 9 (R) | Ground | ProPILOT park switch OFF | Input | [Power switch ON] | Press the park assist switch | 4.2 V or more | 6.6 V |
| | | | | | Other than above | 2 V or less | 0 V |
| 12 (W) | Ground | ProPILOT park switch ON | Input | [Power switch ON] | Press the park assist switch | 2 V or less | 0 V |
| | | | | | Other than above | 4.2 V or more | 6.6 V |
| 13 (SB) | Ground | Retract motor operation signal (open) | Input | [Power switch ON] | Passenger side door mirror is in retracted status | 2.9 V or less | 0 V |
| | | | | | Passenger door mirror is in expanded status | 5.8 V or more | 12.0 V |
| 16 (R) | Ground | Retract motor operation signal (close) | Input | [Power switch ON] | Passenger side door mirror is in retracted status | 5.8 V or more | 12.0 V |
| | | | | | Passenger door mirror is in expanded status | 2.9 V or less | 0 V |
| 19 (W) | — | CAN-L | Input/Output | — | | — | — |
| 22 (BR) | — | CAN-H | Input/Output | — | | — | — |
| 23 (BR) | — | CAN-H | Input/Output | — | | — | — |
| 24 (Y) | — | CAN-L | Input/Output | — | | — | — |
| 25 (P) | — | CAN-L | Input/Output | — | | — | — |
| 28 (BR) | — | CAN-H | Input/Output | — | | — | — |
| 31 (G) ^{*1} (BG) ^{*2} | 2 (B) | ACC power supply | Input | [Power switch ON] | | 9.0 – 16.0 V | Battery voltage |

| Terminal (Wire color) | | Description | | Condition | Standard | Reference value (Approx.) |
|--------------------------|----------|---------------------------|--------------|-------------------|-----------------|---------------------------------|
| + | - | Signal name | Input/Output | | | |
| 32 (R) | 2 (B) | ACC power supply | Input | [Power switch ON] | 9.0 – 16.0 V | Battery voltage |
| 33 | 34 | LVDS (Side camera RH) | Input/Output | — | — | — |
| 34 | — | Shield | — | — | — | — |
| 35 | 36 | LVDS (Front camera) | Input/Output | — | — | — |
| 36 | — | Shield | — | — | — | — |
| 37 | 38 | LVDS (Rear camera) | Input/Output | — | — | — |
| 38 | — | Shield | — | — | — | — |
| 39 | 40 | LVDS (Side camera LH) | Input/Output | — | — | — |
| 40 | — | Shield | — | — | — | — |
| 41 | 42 | LVDS (AV control unit) | Input/Output | — | — | — |
| 42 | — | Shield | — | — | — | — |
| 44 (Y) | Ground | Ethernet(+) | — | — | — | — |
| 45 (G) | Ground | Ethernet(-) | — | — | — | — |
| 47 | — | Shield | — | — | — | — |

*1: With ProPILOT

*2: Without ProPILOT