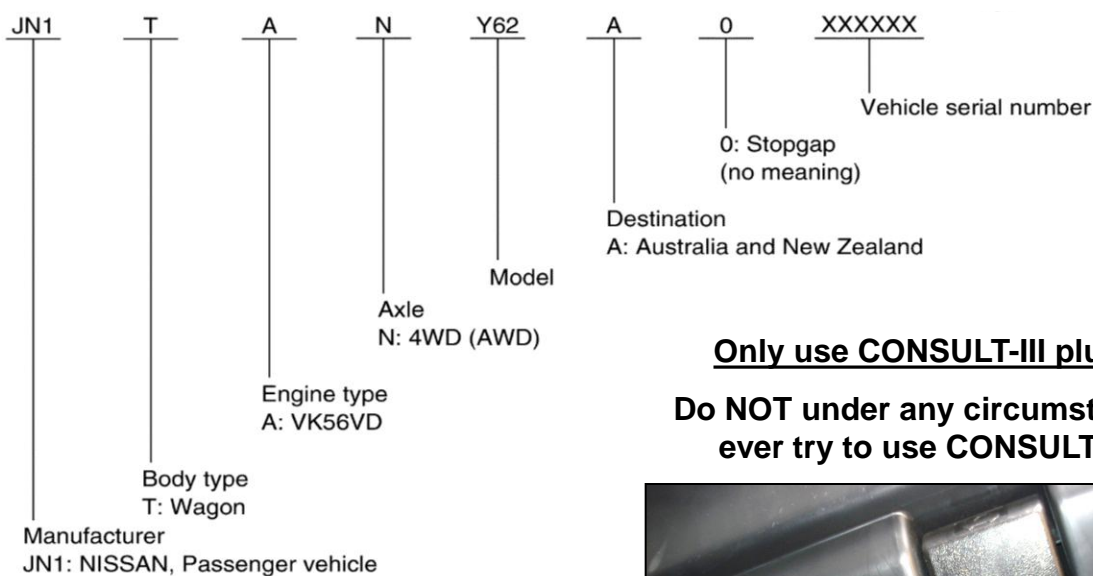
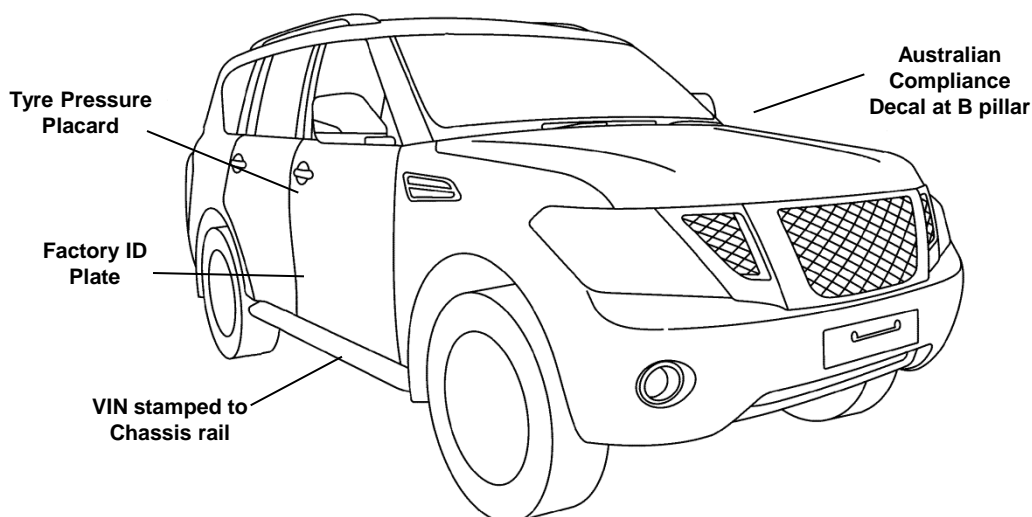


# Y62 PATROL

## 17 DIGIT VIN LOCATIONS

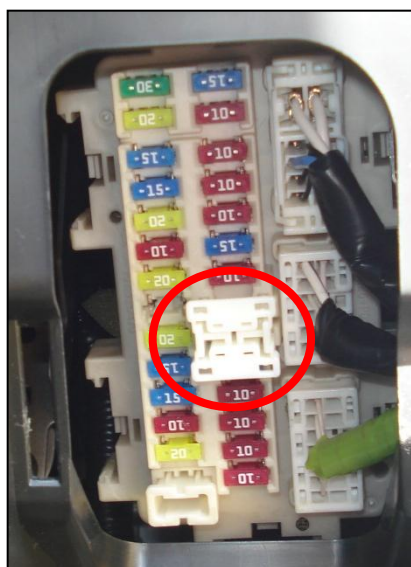


January 2013

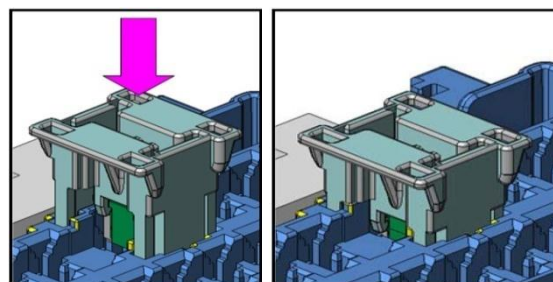
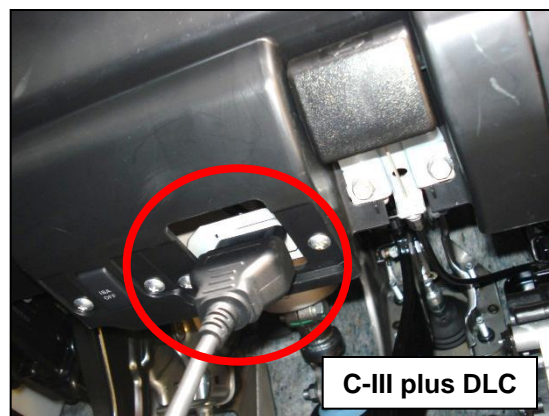


**Only use CONSULT-III plus.**

**Do NOT under any circumstance ever try to use CONSULT II**



Fuse panel located lower right side of Instrument panel



Transit Fuse type 2 (if fitted). Ensure it is pushed in. Refer to STB EL10-004

## PDI LOOSE PARTS

- Owner Manual Wallet contents:
  - Owners Manual.
  - Warranty and Maintenance guide.
  - Navigation System Owners Manual (Ti-L only).
  - Dealer list and Misc. leaflets.
- Spare tyre on alloy rim. Wheel caps (not shown).
- Jack and tools – brace and jack handle; 3 pieces located in rear compartment.
- 2 keys tied together as per picture below.
- Set of 4 Floor mats pictured at right.
- Standard sized number plate facia.



**Ensure all 10 mat retaining clips are positioned firmly in place**



**Ensure there are 2 I-KEY units per car.**



**Jack, wheel brace and handle.**



**A standard sized number plate facia is included with the vehicle. A slimline facia is already installed to the vehicle if required. Refer to STB GI 13-002.**



**Ensure emergency 4WD Low engagement Torx key is included with the tools in plastic envelope.**

## PDI LOOSE PARTS

### Rear Seat Entertainment (Ti-L only)

Ensure the system is working correctly. Use a test DVD.

Refer to the vehicle's Owner Manual for more details.



### Headphones & Remote (Ti-L only)

Ensure both sets of headphones are in the vehicle and are working correctly.

Refer to the vehicle's Owner Manual for more details.



Test function of the Remote Control.





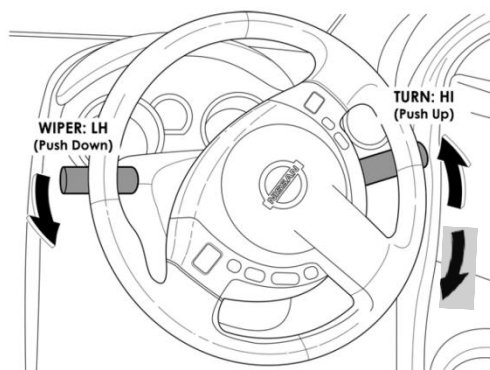
## UNIQUE PRE-DELIVERY ACTIONS

## BCM Transit Mode Cancellation

After the Ignition is switched ON, both the turn arrow indicators in the instrument cluster (both green arrows will illuminate constantly for 1 minute). This indicates that the BCM is in "Transit mode" (battery power saving function).

To cancel this mode, ensure the ignition is OFF, simply push the LH stalk all the way down (wiper in Hi speed position) & push the RH stalk all the way UP or DOWN (Left or Right Indicator ON position).

Return the stalks to their normal positions & turn Ignition ON & check that the green turn indicators are **not** illuminated.



**Ign. OFF / LH stalk DOWN /  
RH stalk UP or DOWN**

## Ignition Keys (Intelligent Keys)

Place the I-KEY in your pocket & from a locked vehicle condition, enter the vehicle & start the engine via the Intelligent Key process.

NOTE: Wait for the NATS security lamp to flash before testing each key.

Also check that the key works via the Remote functionality (pressing the appropriate buttons should lock / unlock the doors).



## Emergency Key

Eject BOTH emergency keys from the I-KEY units  
& ensure they unlock the front doors manually.

[illegible]

## Remote Control / I-Key programming

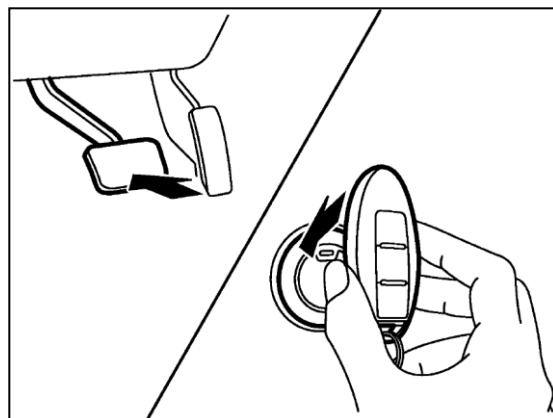
If the key starts the vehicle, the remote should also be working.

Refer to the NATS Application chart and CONSULT-III Plus on-screen prompts to program additional keys.

## When I-KEY battery is flat

If the battery in the I-KEY has failed, the only way the vehicle can be started is by holding the I-KEY unit against the Ignition button & pushing it.

To open the doors mechanically, remove the mechanical key from the I-Key & insert it into the lock at the Exterior door handle.



## UNIQUE PRE-DELIVERY ACTIONS

### Battery Grounds

Ensure the Battery terminal connections are clean and tight.

#### **WARNING:**

**To avoid damage to the AV control unit, ensure the ignition has been switched OFF for more than 30 seconds before disconnecting the battery terminals.**

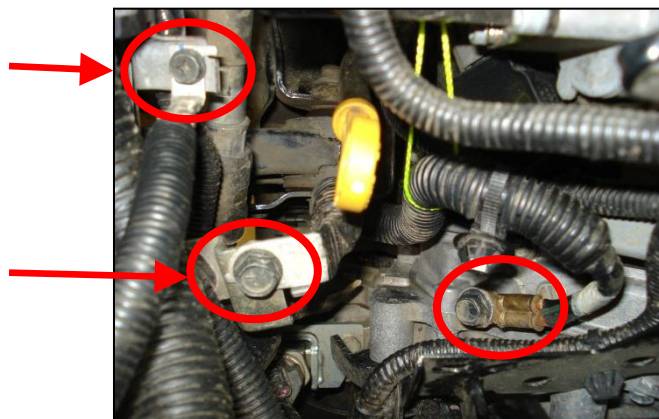
**NOTE: Battery MUST be tested and fully charged before delivery to Customer.**



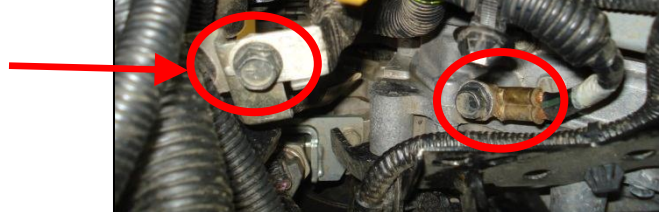
Ensure the Ground from the Battery Neg. to Body (viewed below battery carrier) is secure.



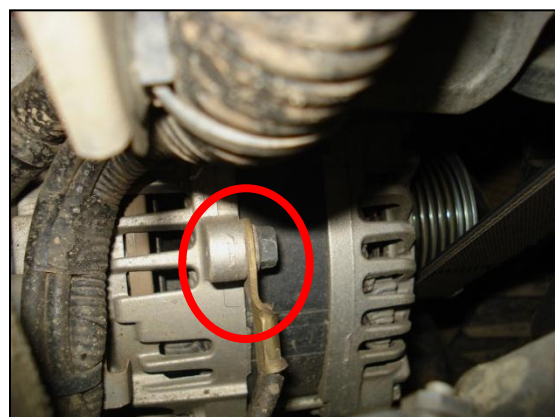
Ensure Alternator to Body ground is secure.



Ensure "S" shaped Engine to Body Ground cable; adjacent to the dipstick on driver's side is secure (viewed here from side of battery).



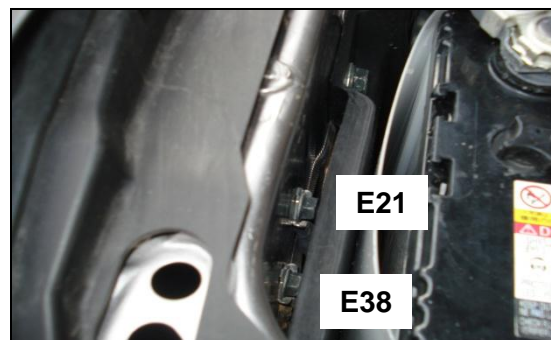
Ensure Alternator ground cable is secure at Alternator body.



## UNIQUE PRE-DELIVERY ACTIONS

### Engine Control Grounds

Ensure engine control ground connections E21 & E38; located adjacent to the battery are clean and tight.



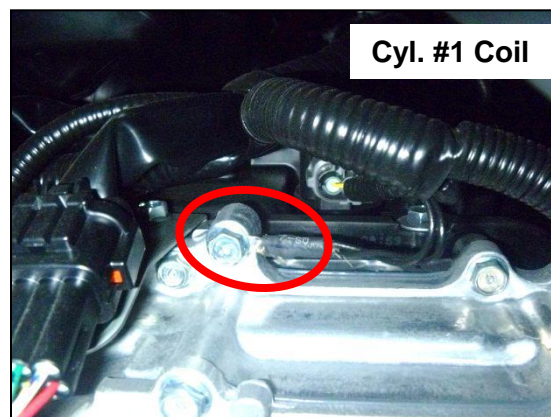
### ABS/VDC Grounds

Ensure ABS/VDC ground connections E35 and E43 located adjacent to the air filter are clean and tight.



### Coil Ground

The coil ground is located on the left bank of the engine adjacent to cylinder #1 (below intake air ducting).



# UNIQUE PRE-DELIVERY ACTIONS

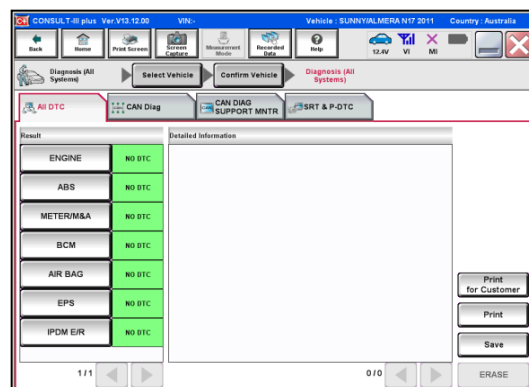
## CONSULT III PLUS OPERATIONS

### All DTC inspection

From the CONSULT III Plus Home screen, select DIAGNOSIS (All Systems).

Ensure there are no DTC's. There maybe cases where DTC's are displayed, print them off as a record & then erase all the codes.

Once again check for DTC's after road test.



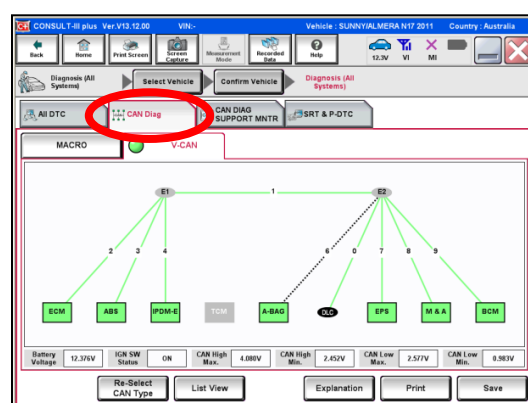
### CAN inspection

From the ALL DTC screen Select CAN Diag.

NOTE: The 18 character Model Code (SIS) must be typed into CONSULT III Plus – in capitals.

This is found on the ID plate on the lower RH "B Pillar" (open drivers door to access).

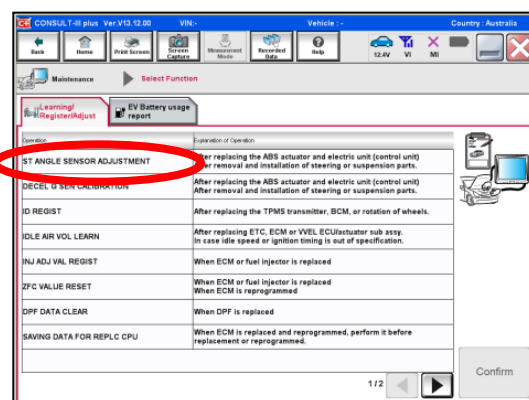
Ensure the CAN is OK. All lines are to be GREEN.



### Steering Angle Sensor re-calibration after PDI Wheel Alignment

From the CONSULT-III Plus Home screen, select MAINTENANCE.

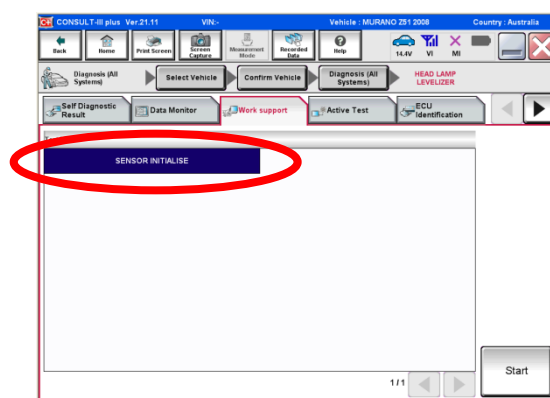
Select ST ANGLE SENSOR ADJUSTMENT. Follow the on screen prompts with the steering wheel in the exact straight ahead position.



### Headlight Levelizer Recalibration (Ti-L);

Park the vehicle on a flat & level surface. Ensure there is no weight in the vehicle & carry out the SENSOR INITIALISE of the HEAD LAMP LEVELIZER.

Select "HEADLAMP LEVELISER" from the main "ALL DTC" screen. Then select "Work Support" Follow the onscreen prompts.



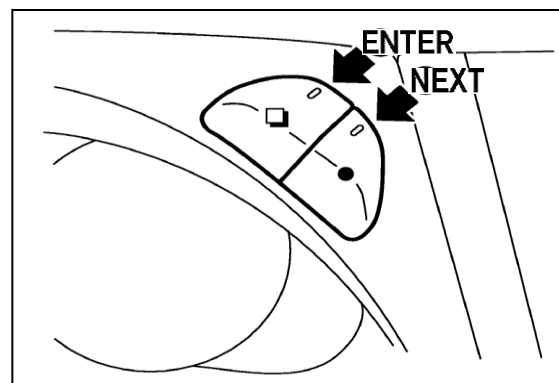
## UNIQUE PRE-DELIVERY ACTIONS

### Service Reminder Setting (ST-L & Ti)

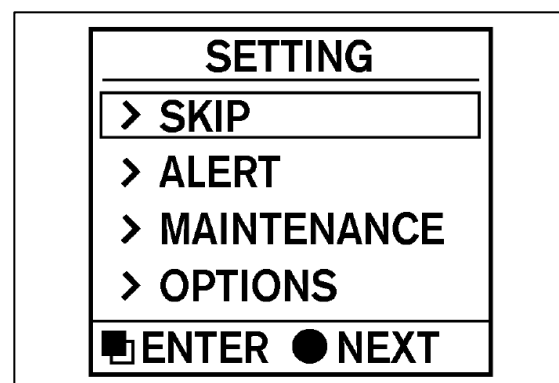
Ensure that the Service Reminder that is part of the instrument cluster display is set to remind the customer of the 1,000km service &/or the 10,000km service.

NOTE: Models without Sat. Nav. have duplicate service reminder functions; in the AV display and the instrument cluster.

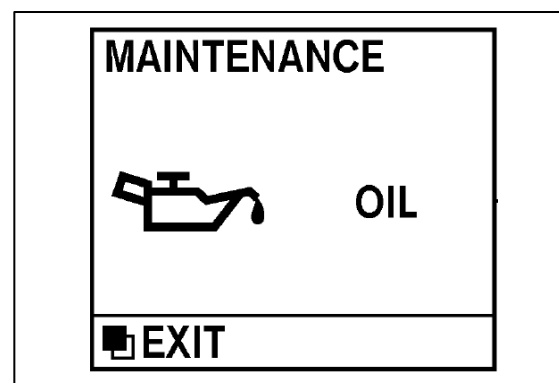
1. Switch ignition ON.
2. Press the ENTER button repeatedly until the "SETTING" screen appears.



3. Press the NEXT button to highlight the word "MAINTENANCE", then press the ENTER button once.



4. Press NEXT until "OIL" is highlighted, then press ENTER.



5. Change the display to indicate that a service is due in 1,000 or 10,000km's.
6. Press ENTER to exit "MAINTENANCE SETTING".



# UNIQUE PRE-DELIVERY ACTIONS

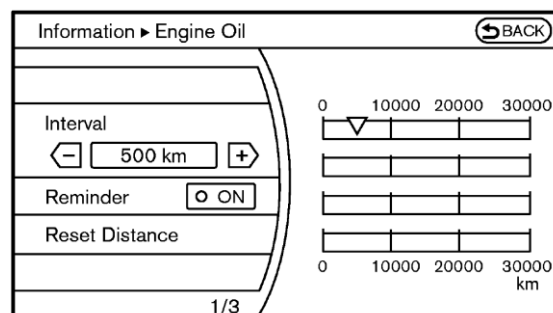
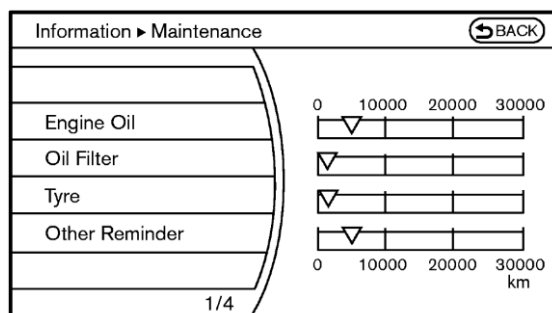
## AV Display Service Reminder (All models)

Ensure that the Service Reminder that forms part of the Audio Visual Display or Sat. Nav. is set to remind the customer of the 1,000km service &/or the 10,000km service.

1. Switch Ignition On.
2. Press the "INFO" button on the centre dash.
3. Then select the "MAINTENANCE" option.
4. Select "Engine Oil".
5. Ensure the "Reminder" is set to ON.
6. Press "Reset Distance" and set interval appropriately.

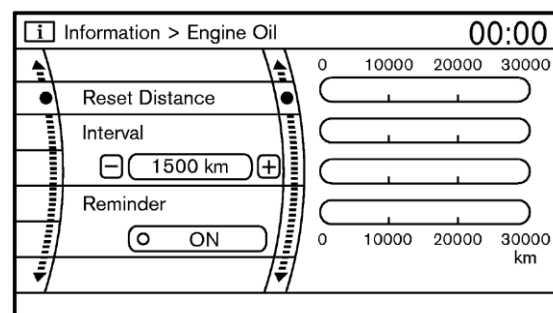
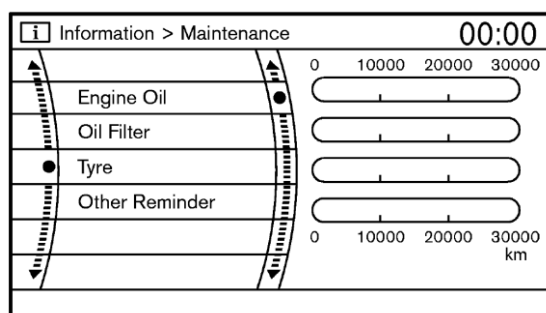


## Setting - Ti-L



Set to 1,000 or 10,000 km

## Setting - ST-L & Ti



Set to 1,000 or 10,000 km

NOTE: This service reminder is separate to the instrument cluster reminder (ST-L and Ti).

Models with Sat. Nav. do not have any of the trip computer functions displayed in the instrument cluster.



Service Reminder display

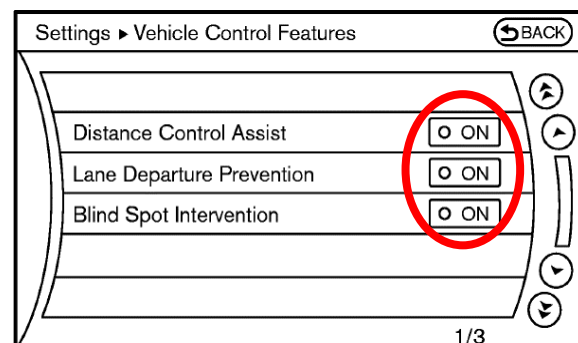
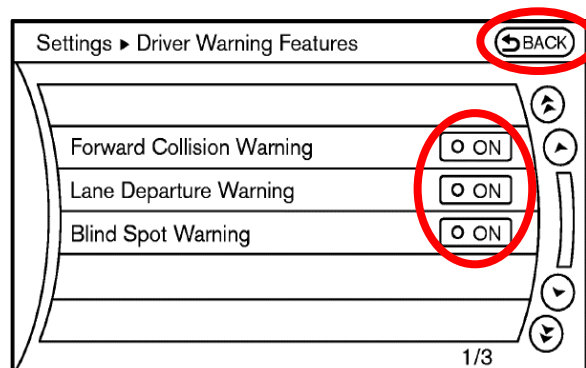
# UNIQUE PRE-DELIVERY ACTIONS

## Advanced Driver Assistance Systems - ADAS (Ti-L only)

Y62 Patrol Ti-L has a complex range of inbuilt Driver Assistance Systems.

**IT IS IMPERATIVE THAT THE MASTER CONTROLS ARE SET AT PRE-DELIVERY.**

1. From the Sat. Nav. Controls, select "SETTING"
2. Select "Driver Assist"
3. Select "Driver Warning Features".
4. Set:
  - Forward Collision Warning
  - Lane Departure Warning and
  - Blind Spot Warning to "ON".
5. Press "BACK".
6. Select "Vehicle Control Features",
7. Set:
  - Distance Control Assist
  - Lane Departure Prevention and
  - Blind Spot Intervention to "ON".
8. Press "BACK" several times to exit.



## Warning Systems Switch (WSS)

**Ensure that the WWS switch is set to ON.**

The Warnings switch is located on the lower right dash fascia. Ensure it is operating correctly and the yellow bar is illuminated whenever the ignition is switched ON and when the vehicle is being driven.

## Intelligent Brake Assist (IBA)

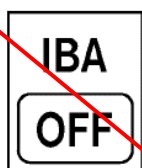
**Ensure that the IBA switch is set to ON.**

The switch is located below the dash adjacent to the Data Link Connector.

The IBA OFF lamp on the instrument cluster must NOT BE illuminated when the engine is running (i.e. IBA system is ALWAYS active).

NOTE: The IBA OFF Lamp remains illuminated until the engine is started.

IBA OFF Lamp



To change state of the IBA Switch:

1. Start the engine
2. Press and hold the switch for more than 1 second.



## UNIQUE PRE-DELIVERY ACTIONS

### Lane Departure Warning Lamps (Ti-L)

The Lane Departure Warning Lamps are located on the interior door trims adjacent to each exterior mirror.

Ensure they illuminate and then extinguish when the ignition is switched ON.



### Laser Sensor (Ti-L)

Several of the Advanced Driver Assistance Systems utilise a Laser Sensor mounted in the lower section of the front bumper bar.

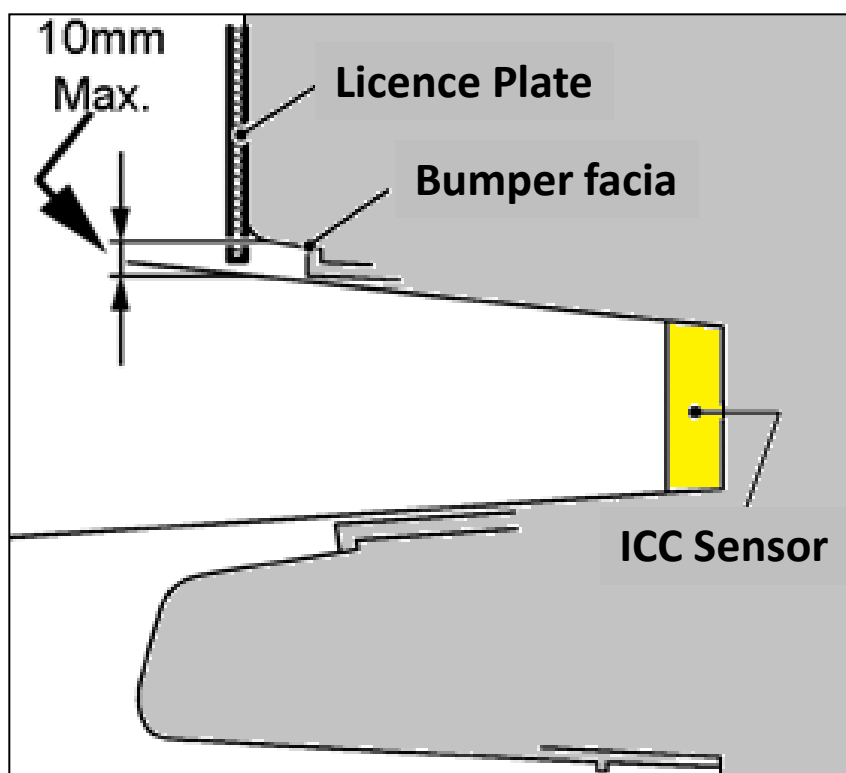
**Care must be taken not to damage this by use of pressure washers during pre delivery.**



### Licence plate installation

**Bull bars, nudge bars, licence plates and other accessories must not interfere with the sensor operation.**

**NOTE:**  
The licence plate must be at least 10mm clear of the bumper fascia opening; upper surface, as shown at right.



# UNIQUE PRE-DELIVERY ACTIONS

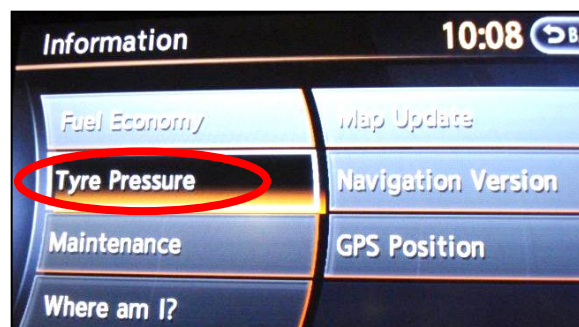
## Tyre Pressure Monitoring System (Ti-L)

Confirm the Tyre Pressure Monitoring System is registering the tyre pressures.

1. From the Sat. Nav. Controls, select "INFO"



2. Select "Tyre Pressure".



3. Confirm Tyre pressures are displayed.

**NOTE: Vehicle will need to be driven above 25 km/h to activate the system.**

4. If pressures are not displayed, follow the ID Registration procedure in ESM section:

E - SUSPENSION > WT > BASIC INSPECTION  
> ID REGISTRATION.



**If the TPMS Warning Lamp is illuminated at Pre Delivery, the sensors will probably require registration.**



**NOTE: ID Registration will need to be conducted if any wheels are rotated to different positions on the vehicle.**



## Tyre Pressure Monitoring Registration Tool

Used in conjunction with CONSULT-III Plus.  
Refer to **STB GI 13-001** on page 18.



# UNIQUE PRE-DELIVERY ACTIONS

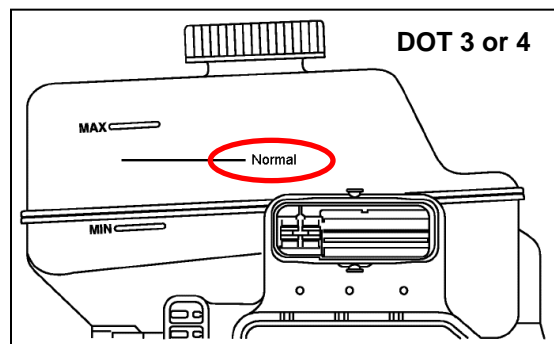
## Brake Fluid Level Checking

These vehicles use an electro-hydraulic brake master cylinder. A special procedure is required to check the brake fluid level.

**IT IS CRITICAL THAT THE RESERVOIR IS NOT OVER FILLED.**

1. Switch Ignition OFF.
2. Vigorously pump the brake pedal 20 times. This vents fluid out of the brake system Accumulator back into the reservoir.
3. Fluid level should NOW be from 4-12 mm **BELOW** the MAX line.

**IF THIS PROCEDURE IS NOT FOLLOWED, THE RESERVOIR WILL BE OVERFILLED.**



### WARNING!

**Do not perform any brake operations with the reservoir cap removed.**

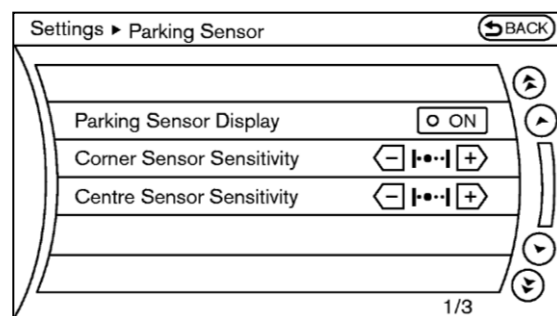
**Do not remove the cap with the ignition ON or engine running.**

## Front & Rear Sonar Parking System (All models)

Check the Parking Sensor Master Control is set to "ON".

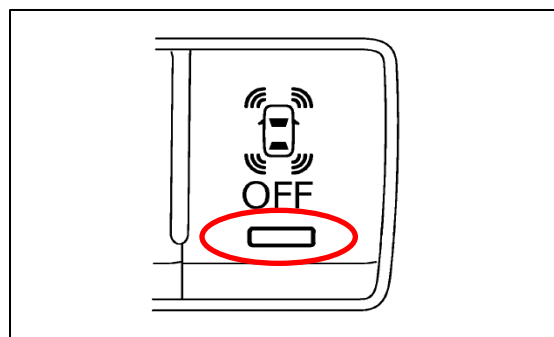
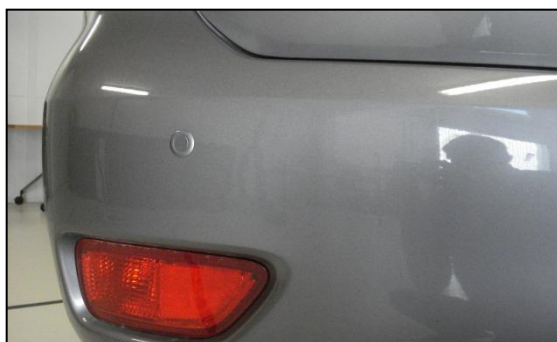
1. Switch ignition ON
2. From the AV display controls select "SETTING"
3. Select "Other"
4. Select "Camera"
5. Ensure "Parking Sensor Display" is set to ON.

Driver sensitivity settings can be adjusted from here if required.



"The Parking system engages whenever:

- The ignition is switched from OFF to ON.
- Reverse is selected – for front and rear obstacles.
- Drive is selected - for front obstacles
- Vehicle speed is less than 10 km/h.



**Lamp illuminates when switch is OFF**

## UNIQUE PRE-DELIVERY ACTIONS

### Setting Drivers Seat / Mirror / Steering Column Position (Ti-L only)

Refer to Section 3 of the Owners Manual for the setting procedure. Ensure a position is able to be memorised & paired to a key.

This procedure will have to be repeated again by the sales consultant on delivery to suit the customers needs.

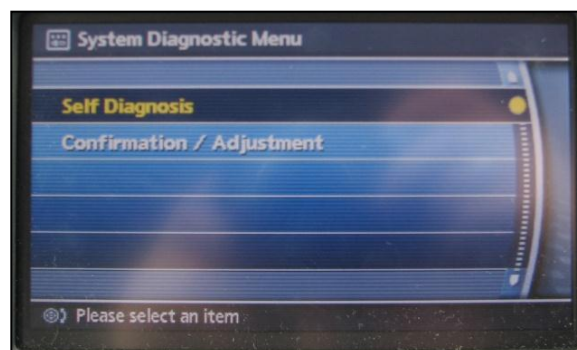


Switches located on Drivers door.

### AV System Quick Self Test (All models) (Communication Test)

1. Switch ignition ON.
2. Turn off Audio & Climate Control.
3. Hold down SETTING button & turn the VOL dial more than 40 clicks.

The screen at right will appear.



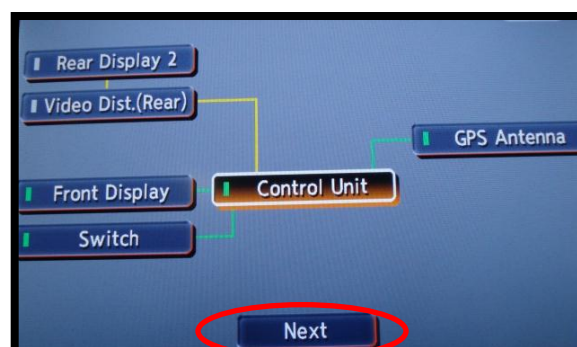
4. Press the ENTER button & the screen right will now appear. Ensure all the lines linking each unit are coloured GREEN.

5. Press "Next" if applicable and ensure all lines are green.

This indicates the system is OK.

#### NOTE:

ST-L & Ti will not display GPS Antenna, the Rear Displays or Around View.



### Rear View Monitor Operation (ST-L & Ti)

With the engine running, apply the brakes, select Reverse gear & turn the steering from FULL lock to lock.

Ensure the yellow colour guidance indicator is centered (disappears) when the steering is straight ahead.

Place objects (such as a bin) at each rear corner of the vehicle, they should be equal distance away from the vehicle & apart from each other. If the vehicle was to reverse backwards, it should just fit through the objects.

If the same portions of the both objects can be seen in the screen, the camera is OK.

Inspect the mounting of the camera at the rear of the vehicle if the vision is not correct.



## UNIQUE PRE-DELIVERY ACTIONS

### Around View Monitor System – AVM (Ti-L)

Depending on switch selection, the AVM screen combines and displays the following views:

- Birds-Eye view.
- Travel direction view (in Drive or Reverse).
- Wide Rear view.
- Front left side view.

### Component Location

The AV display screen is located in the centre of the dash.

It is controlled directly by the AV / Navi Control Unit.

### Camera Locations

Cameras are located on the lower surface of each external rear vision mirror, in the grill badge and adjacent to the rear number plate.

### Camera Switch

The Camera Switch is located on the left side of the Sat. Nav. Controls just below the AV screen.

### Inspection - 1

With the engine idling & the gear lever in Park, press the "Camera" switch, an image that appears to be from above the vehicle as well as an image of the area in front of the vehicle should appear.

### Inspection - 2

With the engine idling, select Reverse, an image of the area behind the vehicle should automatically appear with the above vehicle view. Press the "Wide" on-screen button and ensure a wide view of the rear fills the screen.

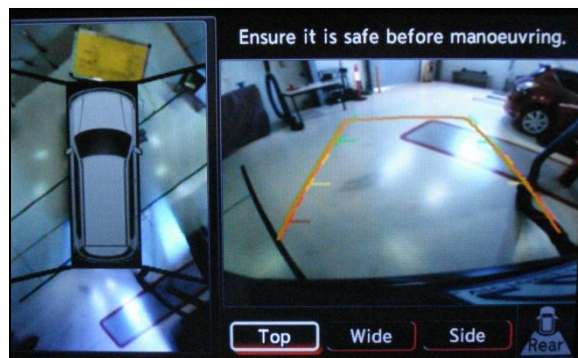
### Inspection - 3

Press the "Side" on-screen button and ensure a view of the left front wheel appears to the side of the rear view.

### Camera Calibration

To conduct camera calibration, refer to the appropriate ESM section:

- N - DRIVER INFORMATION & MULTIMEDIA.
  - > AV Audio, Visual & Navigation System.
  - > BOSE AUDIO - WITH NAVIGATION.
  - > BASIC INSPECTION
    - > CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR).





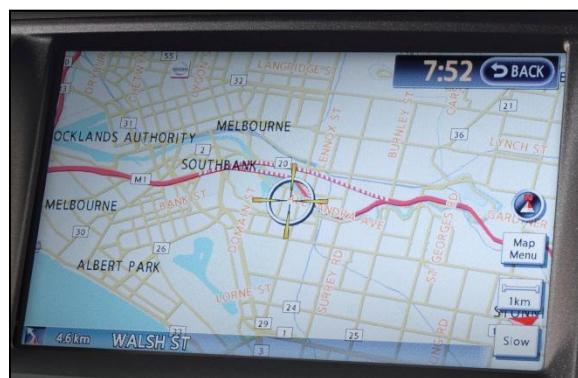
# UNIQUE PRE-DELIVERY ACTIONS

## Map location check (Ti-L only)

Park the vehicle out in an open area. Press the "MAP" button and "OK".

Ensure the map shows the actual location of the vehicle.

Ensure that the clock displays the correct time. The time of the clock is automatically set from the satellite.



## Time zone setting / Clock Setting (All models)

- Press the "SETTING" button
- Scroll down to select "Other"
- Select "Clock"
- Adjust time accordingly.



Ensure that the "Summer Time" option is selected to "ON" if the state you're in currently has Daylight savings.

Ensure the appropriate "Time Zone" is selected.



## Perimeter Theft Alarm check (Where fitted)

- Turn the ignition OFF & exit the vehicle. (Leave drivers window open).
- Ensure all doors are properly CLOSED.
- Activate central locking via the I-KEY buttons to LOCK all doors.
- Observe the red **NATS security indicator light** on the instrument cluster. After 30 seconds from when the doors were locked, the indicator light should **change from constantly ON** to blinking every 2.4 seconds.
- Reach through the open drivers window & pull on the bonnet release to pop the bonnet. The alarm will sound after a few seconds. Press I-KEY button to cancel alarm.





## UNIQUE PRE-DELIVERY ACTIONS

### Rain Sensor Check (Ti & Ti-L)

Switch the ignition to ON & move the wiper stalk to the "Auto" position.

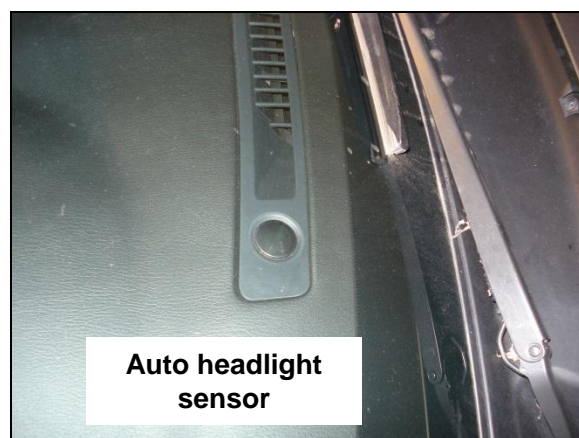
Sprinkle or squirt water to the outside of the windscreen at the sensor – which is located in the top middle of the windscreen (forward of the rear vision mirror mounting).

The wipers should activate.



### Auto Headlight Sensor (Ti & Ti-L)

- Turn the Headlight switch to the "Auto" position.
- With the vehicle placed outside in the light, ensure that the headlights are OFF (ignition ON).
- Place an object over the sensor located on the dash pad (drivers side).
- The headlights should switch ON automatically.



### Headlight Washer (Ti-L only)

- Turn Ignition ON (or engine running)
- Turn the Headlight switch to the "ON" position.
- Operate the Windscreen washer function.
- Not only will the washers & wipers work in the normal fashion, the Headlight washers will spray water onto the headlights under high pressure.



# UNIQUE PRE-DELIVERY ACTIONS

## All Window Initialisation

1. Switch ignition ON.
2. Fully open window.
3. Operate the power window AUTO UP switch and keep in this position for 2 seconds or longer once the window stops at the fully closed position.
4. Repeat on all four doors.
5. Test the AUTO window function on ALL DOORS to confirm correct operation.

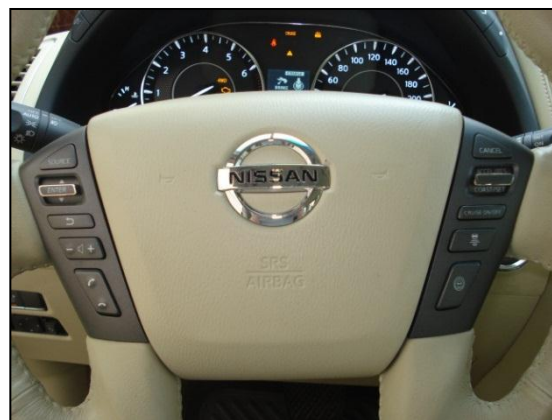


## Steering Wheel Controls

Check function of audio controls on steering wheel.

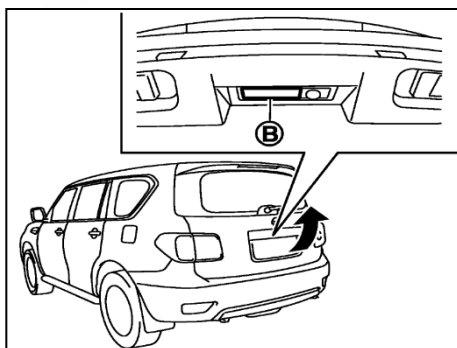
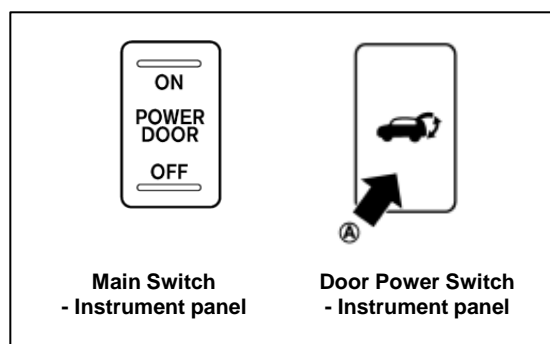
Check function of Steering Column toggle switch (where fitted). It is located on the left side of the steering shroud.

Ensure the Steering column raises & lowers via electrical operation as well as telescopically adjusts (moves in & out from dash).

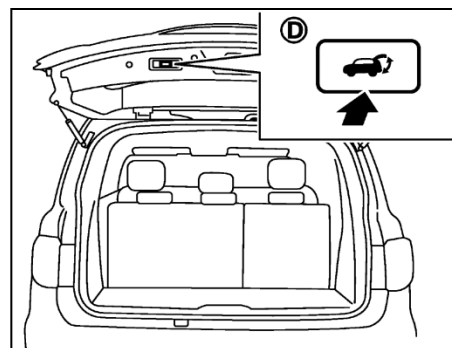


## Rear Tailgate (Ti-L only)

Operate the tailgate via all methods. Ensure it fully opens & then fully closes itself.



Door Open switch



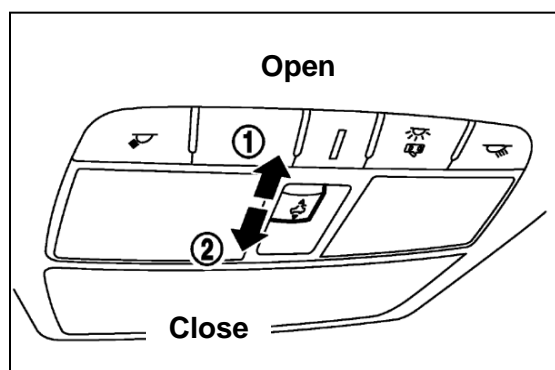
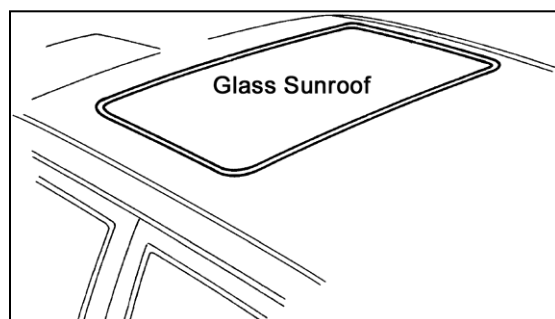
Door Close switch

# UNIQUE PRE-DELIVERY ACTIONS

## Sun Roof Initialisation (Ti & Ti-L)

If the sunroof does not close or open automatically (due to loss of power etc.), use the following procedure to return sunroof operation to normal.

1. Press the tilt up switch **(2)** and start the tilt up operation.
2. Release the tilt up switch once, press the tilt up switch again, press and hold the switch until lid pops up.
3. The glass lid moves slight toward tilt up direction then stop. (Press and hold the switch during this operation)
4. Release the switch again, and press the tilt up switch within the first 10 seconds. (Press and hold the switch).
5. After 4 seconds, the glass lid will be automatically operated in sequence of tilt down, slide open and slide close.
6. After the glass lid stops, release the switch 0.5 second later. (Press and hold the switch during this operation).
7. If slide switch operates normally, the initialisation is complete.



## RELEVANT BULLETINS

### Dealer Service Requirements

Refer to **STB GI 13-001** for details regarding the tools and equipment required to Pre-deliver, service and repair Y62 Patrol.

Please familiarise yourself with this bulletin and ensure the necessary tools are on hand.

| MY13 Patrol (Y62)  |          |                            |             |                                     |                             |                                      |   |  |  |
|--|----------|----------------------------|-------------|-------------------------------------|-----------------------------|--------------------------------------|---|--|--|
| Category – A Tools, (new + existing) and General Service Equipment |          |                            |             |                                     |                             |                                      |   |  |  |
| Image  | ESM ref. | Tool Description           | Tool Number | Patrol (Y62) Category-A Tools (new) | Category-A Tools (existing) | General Service Equipment (existing) | Indicative price with shipping (ex GST) | Comment / Action   |  |
|  | CCS      | ICC Target Board           | KV99803070  | •                                   | -                           | -                                    | \$404.74                                | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | EM       | Ring Gear Stopper          | J-47245     | •                                   | -                           | -                                    | \$84.48                                 | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | EM       | Injector Remover           | J-50366     | •                                   | -                           | -                                    | \$87.70                                 | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | EM       | Injector Seal drill set    | J-50364     | •                                   | -                           | -                                    | \$69.18                                 | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | FL       | Fuel Tank lock ring wrench | KV10120750  | •                                   | -                           | -                                    | \$218.52                                | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | FSU      | CCK gauge attachment       | KV99104051  | •                                   | -                           | -                                    | \$174.26                                | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | FSU      | Guide bot                  | KV48105800  | •                                   | -                           | -                                    | \$56.56                                 | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | DLN      | Spine Socket               | KV10119400  | •                                   | -                           | -                                    | \$80.96                                 | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | SCS      | Suspension Oil Pump        | J-50388     | •                                   | -                           | -                                    | \$1,834.21                              | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | SCS      | Oil Pressure Gauge         | KV40108000  | •                                   | -                           | -                                    | \$546.88                                | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | SCS      | Leak Check Plug            | J-50365     | •                                   | -                           | -                                    | \$19.45                                 | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | WT       | Activation Tool            | EL-50448    | •                                   | -                           | -                                    | \$60.76                                 | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |
|  | ESM      | Workshop Manual            | DMCE-V62E   | •                                   | -                           | -                                    | \$450.00                                | Dealer action req'd: None<br>Tool will auto ship – Dec '12 |  |

## Service Technical Bulletin

First Published: 7<sup>th</sup> January 2013      Bulletin No: GI13-001

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**SST – Special Service Tools**  
Applied Model: Y62 Patrol      Applied Range: All

**Outline:**  
With reference to National Dealer Bulletins; (see attached)  
1. **NDB99-12 Dealer Readiness** - Current & future planned model introductions.  
2. **NDB12-12 Dealer Service Requirements** – all new Patrol (Y62) introduction.

Please be advised that the essential SST's prescribed in NDB12-12 are now being distributed to the dealer network in preparation for the launch of the Y62 Patrol.

As the total list of tools being despatched from the SST vendor will vary in their delivery schedule according to the original point of manufacture, your dealership should expect that the total shipment of tools will be staggered over 2 shipments starting from the 3<sup>rd</sup> of January 2013.

To assist your dealership to track the supply of tools into your facility, attached to this TSB is an audit sheet that can be cross referenced against the supplied terms. In addition an example of a consignment note is provided below to assist in identifying the shipment when it arrives at your dealership.

If you believe that a specific tool has been misplaced in transit, please contact **Bosch Automotive Service Solutions** advising of the issue and it will be followed up with the vendor and the shipping company.

**Bosch Automotive Service Solutions**  
300 Wellington Road, Mulgrave  
Victoria, Australia  
(03) 9544 6222

Approved for release:  
**Rod Bahn**  
National Manager – Technical Services

**TOYOTA RLD C50**  
**ALD 150 RLD C50**  
**TWB**

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# RELEVANT BULLETINS

## Sat Nav System Repair Process

For Sat Nav repairs refer to Warranty Bulletin;

### AWB-010/10

**Audio System** (with / without Sat Nav etc.) refer to ESM for diagnosis, Section K - ELECTRICAL – AV.

| <b>Service Warranty Bulletin</b>   |        |                                  |        |
|--|--------|----------------------------------|--------|
| Date: 3 <sup>rd</sup> August 2010  |        | Bulletin No: AWB-010/10          |        |
| <b>Recommended Circulation</b><br><b>THIS INFORMATION IS CONFIDENTIAL TO NISSAN DEALERS ONLY</b>   |        |                                  |        |
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| RE: MY10 R51 Pathfinder Satellite Navigation System  |        |                                  |        |
| <b>Overview:</b><br>With the introduction of the MY10 R51 Pathfinder, Satellite Navigation with touch screen technology has been made available as standard equipment on T1 versions. This warranty bulletin outlines the service & warranty procedures for the navigation components within this model.   |        |                                  |        |
| <b>Rectification:</b><br>In the event that a fault has been diagnosed & identified within the navigation system of the vehicle and that the correct diagnosis procedures within the AV section of the ESM (Electronic Service Manual) have been followed, replacement components are available from Nissan thru the normal parts ordering channels, not the vendor identified on the exterior of the unit. |        |                                  |        |
| <b>Note:</b><br>In the case that the IT Master Control unit requires replacement, a TechLine case must be raised prior to ordering & replacement of the component.   |        |                                  |        |
| If you have any queries regarding the content of this bulletin, please do not hesitate to contact the National Warranty Office via an IQ contact.  |        |                                  |        |
| Andrew Dimsey<br><br>Manager - National Warranty & TechLine  |        |                                  |        |

## Battery Saving Features

Refer to **STB EL 10-004** for more details regarding the Battery Power Saving features.

| <b>Service Technical Bulletin</b>  |        |                                  |        |
|--|--------|----------------------------------|--------|
| First Published: 8 <sup>th</sup> October 2010  |        | Bulletin No: EL10-004            |        |
| <b>Recommended Circulation</b><br><b>THIS INFORMATION IS CONFIDENTIAL TO NISSAN DEALERS ONLY</b>   |        |                                  |        |
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| Re: Battery Saving Features  |        |                                  |        |
| Applied Model: All Applied Range: MY10   |        |                                  |        |
| <b>Overview:</b><br>As part of the MY10 production upgrades, a range of Battery Saving features have been developed and added to various built vehicles starting from September 2010 onwards.  |        |                                  |        |
| These features have been added to improve battery SOC (State Of Charge) at vehicle delivery to the customer thereby significantly reducing the risk of flat batteries post delivery of the vehicle.  |        |                                  |        |
| <b>Outline:</b><br>Dependent on the model, a combination of one, two or three of the following systems may be installed in the vehicle. It is important that during the pre-delivery of the vehicle that the process defined within this bulletin is carried out to ensure correct operation of all systems.                               |        |                                  |        |
| 1. <b>Standard Transit Fuse</b><br>Fuse removed at the production plant with the fuse stored in cup holder (or ashtray). Fuse must be re-fitted prior to customer handover.  |        |                                  |        |
| 2. <b>Cupholder Transit Fuse (Type 1 &amp; 2)</b><br>Fuse 'bulked' at production plant. Fuse must be refitted before customer handover. Do not refit during storage.   |        |                                  |        |
| 3. <b>BCM (Intelligent Battery Save Software)</b><br>Intelligent battery save software installed in the Body Control Module. Software must be reset prior to customer handover. BCM Transit Mode is signified by Meter Direction Indicators illuminated at each ignition on for 1 minute but no exterior Direction Indicators illuminated. |        |                                  |        |

## Battery Disconnection Process

Refer to **STB GI 12-005** for more details of correct battery disconnection procedures.

| <b>Service Technical Bulletin</b>   |        |                                  |        |
|---|--------|----------------------------------|--------|
| First Published: 16 <sup>th</sup> March 2012  |        | Bulletin No: GI12-005            |        |
| <b>Recommended Circulation</b><br><b>THIS INFORMATION IS CONFIDENTIAL TO NISSAN DEALERS ONLY</b>  |        |                                  |        |
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| <b>PRODUCT INFORMATION</b>  |        |                                  |        |
| Re: AV (Audio Visual) Control Units & Battery Disconnection   |        |                                  |        |
| Applied Model: Vehicles Fitted with AV (Audio Visual) Control Units   |        |                                  |        |
| <b>Outline:</b><br>Following a small number of TechLine IQ queries regarding inoperative AV systems post a service repair, it has been identified that some dealership technicians are not observing the preparation points prior to disconnecting the battery.   |        |                                  |        |
| <b>Request to Dealer:</b><br>Nissan request that dealership foreman/s and workshop controllers provide guidance and advice to all Nissan workshop service personnel, that when disconnecting a battery on Nissan vehicles, there may be important <b>CAUTION</b> points that must be observed before the battery is disconnected.   |        |                                  |        |
| Shown below is an excerpt from the GI section of the J32 ESM (SME-U320A) that highlights the typical caution point when disconnecting the battery where an AV Control Unit is fitted to the vehicle.  |        |                                  |        |
| <b>Caution in Removing Battery Terminal and AV Control Unit</b><br>(Models with AV Control Unit)  |        |                                  |        |
| <b>CAUTION:</b><br>Remove battery terminal and AV control unit after a lapse of 30 seconds or more after turning the ignition switch OFF.<br><b>NOTE:</b><br>After the ignition switch is turned OFF, the AV control unit continues operating for approximately 30 seconds. Therefore, static corruption may occur if battery voltage is cut off within 30 seconds.   |        |                                  |        |
| Revision 2011 October GI-30 J32   |        |                                  |        |
| Nissan recommended that service personnel research the applicable ESM for each model, however we would like to highlight the following battery disconnection <b>CAUTION'S</b> .   |        |                                  |        |
| <ul style="list-style-type: none"><li>Minimum of 30 seconds for AV equipped vehicles.</li><li>Minimum of 5 minutes for an MPR Diesel X-TRAIL if the engine is hot.</li><li>Minimum of 15 minutes for V6X V6 Diesel R51 Pathfinder (or) D40 Navara if the engine is hot.</li></ul>   |        |                                  |        |
| <b>Authorised by</b><br>First Sales Manager – Field Quality Improvement<br>AfterSales Division  |        |                                  |        |
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| NISSAN MOTOR CO. (AUSTRALIA) PTY LTD A.B.N. 54 004 663 106<br>After Sales Division<br>Lindfield Bldg 1211, Deodarling South, VIC 3168 Phone 033 9797 5000 Fax 033 9797 5007<br>www.nissan.com.au  |        |                                  |        |





# RELEVANT BULLETINS

## COOLING SYSTEM HOSE CLAMP PRE-CAUTION

Always ensure that cooling system hose clamps have been properly secured as described in **STB LC 10-001**

**Service Technical Bulletin**

First Published: 19<sup>th</sup> March 2010 Bulletin No: LC10-001

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Re: Cooling System Hose Clamps

Applied Model: All Applied Range: All

**Outline:**  
Where servicing or maintenance operations are being carried out on vehicles where the removal of engine cooling system hose clamps is required, it has been discovered that in some instances the clamp is not released from its locked open position during re-assembly. Additionally, TechLine have received a small number of Product Reports where the dealer has identified that an engine has suffered an overhaul, a result of the clamp not being released during the assembly of the vehicle and the hose coming away from its fitting point.

This bulletin serves as a timely reminder to all dealerships to ensure where cooling system work is undertaken that final inspection of the work includes the release & security of the hose clamp and that nominated inspection points of the cooling system are carried out during the P.D.I. service to confirm that Locked Open Clamps are not missed during the inspection.

It is also important to understand that certain version of the hose clamps as fitted to Nissan vehicles are single use only. To clarify what clamps must be replaced following service or maintenance work, please refer to the applicable ESM sections OL CO & HA.

 Released Clamp  Locked Open Clamp

Approved for release.  
  
Rod Bahr  
Manager – Field Quality Improvement

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## 12V Battery Handling procedures

Always ensure that the 12V Battery is properly maintained as outlined in **STB EL 09-008**

**Service Technical Bulletin**

Re-Issue: 26<sup>th</sup> September 2009 Bulletin No: EL09-008  
First Published: 18<sup>th</sup> September 2003 Bulletin No: EL03-005

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**PRODUCT INFORMATION**

Re: Battery Handling, Storage & Recovering Procedure

Applied Model: ALL Applied Range: ALL

**Overview:**  
This Technical Service Bulletin has been re-issued to supersede Technical Bulletin EL03-005 relating to battery storage, checking, charging and where required, battery replacement.

**Instruction:**

- Where a dealership is holding a vehicle in stock, it is a mandatory requirement that the negative lead be disconnected from the battery.
- Vehicles held in dealer stock must have a battery condition check carried out with a suitable battery tester every 60 days following initial delivery of the vehicle to the dealership.  
A suitable battery tester is a unit that provides the following information in printed form:
  - Test Sequence or Reference number
  - Battery Condition (i.e. Tester provides a OK, NG, or Requires Charge result)
  - Battery Voltage
  - CCA information
- The results of the tests must be held in the dealership for the period of the battery warranty.
- Where there is a requirement to charge a battery, the process as outlined in the ESM, located in the battery section, must be followed.
- If the battery is tested as NG (pre or post charging the battery) please refer to Warranty Bulletin AWB014/09 for claiming details.

## Wheel Nut Tensions

Ensure that the wheel nuts have been properly torqued as per the details in **STB MA 12-001**

For Y62 the road wheel torques are:

**133 Nm**

**Service Technical Bulletin**

First Published: 17<sup>th</sup> August 2012 Bulletin No: G112-001

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**PRODUCT INFORMATION**

Re: Wheel Nut Tension

| Reference      | Model          | 98 Nm | 108 Nm | 112 Nm | 118 Nm | 127 Nm | 133 Nm | 147 Nm |
|----------------|----------------|-------|--------|--------|--------|--------|--------|--------|
| SM0E-1K1350    | K13 Miro       |       |        |        |        |        |        |        |
| SM0E-1N1701    | N17 Almera     |       |        |        |        |        |        |        |
| SM0E-1C1161    | C11 Tida       |       |        |        |        |        |        |        |
| SM1E-1J20GA    | J20 Maxima     |       |        |        |        |        |        |        |
| SM1E-1B20V1    | 200 LEAF       |       |        |        |        |        |        |        |
| SM1E-1T3450    | 234 370Z       |       |        |        |        |        |        |        |
| SM1H00-1J10G0E | J10 Dualis     |       |        |        |        |        |        |        |
| SM0E-1T1150    | T31 X-Trail    |       |        |        |        |        |        |        |
| SM1E-1T5150    | 251 Murano     |       |        |        |        |        |        |        |
| SM1H00-REV102E | R61 Pathfinder |       |        |        |        |        |        |        |
| SM0E-3Y61G1    | Y61 Patrol     |       |        |        |        |        |        |        |
| SM1E00-104G00E | D40 Navara     |       |        |        |        |        |        |        |
| SM1E-002051    | D22 Navara     |       |        |        |        |        |        |        |
| <b>ARCHIVE</b> |                |       |        |        |        |        |        |        |
| SM1E-1K1250    | K12 Miro       |       |        |        |        |        |        |        |
| SM0E-0N1550    | N15 Pulsar     |       |        |        |        |        |        |        |
| SM0E-1N1650    | N16 Pulsar     |       |        |        |        |        |        |        |
| SM0E-0A3200    | A32 Maxima     |       |        |        |        |        |        |        |
| SM0E-1A3300    | A33 Maxima     |       |        |        |        |        |        |        |
| SM0E-1J1101    | J11 Maxima     |       |        |        |        |        |        |        |
| SM0E-1B1500    | 515 200SX      |       |        |        |        |        |        |        |
| SM1E-1T3307    | 233 350Z       |       |        |        |        |        |        |        |
| SM0E-1T3058    | T30 X-Trail    |       |        |        |        |        |        |        |
| SM0E-1T5050    | 250 Murano     |       |        |        |        |        |        |        |
| SM0E-0R00000   | R60 Pathfinder |       |        |        |        |        |        |        |
| SM0E-Y6000     | Y60 Patrol     |       |        |        |        |        |        |        |
| SM0E-002100    | D21 Navara     |       |        |        |        |        |        |        |

**Note:**  
Where a greyed out area covers two (2) or more cells, this identifies that the specification references a range rather than a fixed torque specification.  
e.g. Y61 Patrol – 115 Nm to 147 Nm



# RELEVANT BULLETINS

## Front Number Plate Fixing

Refer to **STB GI 13-002** for details on fixing the front number plate.

**Service Technical Bulletin**

First Published: 11<sup>th</sup> January 2013Bulletin No: GI13-002

Recommended circulation

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**Front Number Plate Fixing**

Applied Model: Y62 PatrolApplied Range: All

**Outline:**  
From the factory, the Y62 Patrol will arrive fitted with a front, slimline number plate fascia. Where a vehicle will be retailed with a standard size number plate a secondary number plate fascia is supplied with the vehicle.

This instruction outlines the change over process of the slimline number plate fascia to a standard number plate fascia where required.

Approved for release:

**Rod Bahn**  
National Manager – Technical Services

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13/002