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## **2010 NISSAN NP300 Pickup Single Cab OEM Service and Repair Workshop Manual**

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Freeze frame data item	Unit	Function
PT-CAN clock error (SCU)	—	Displays CAN communication status
PT-CAN frame loss (HBA)	—	Displays CAN communication status
PT-FD clock error (CPLC)	—	Displays CAN communication status
PT-F frame loss (CPLC)	—	Displays CAN communication status
PT-FD frame loss (CCM)	—	Displays CAN communication status
HV2-CAN frame loss (DCDC)	—	Displays CAN communication status
HV2-CAN clock error (DCDC)	—	Displays CAN communication status
HV2-CAN CRC error (DCDC)	—	Displays CAN communication status
HV2-CAN frame loss (HECM)	—	Displays CAN communication status
HV1-CAN frame loss (INV)	—	Displays CAN communication status
HV1-CAN clock error (INV)	—	Displays CAN communication status
HV1-CAN CRC error (INV)	—	Displays CAN communication status
PT-FD CRC error (VDC)	—	Displays CAN communication status
PT-CAN frame loss (VDC)	—	Displays CAN communication status
PT-FD frame loss (UPA)	—	Displays CAN communication status
PT-FD CRC error (UPA)	—	Displays CAN communication status
PT-FD frame loss (VDC)	—	Displays CAN communication status
PT-FD clock error (VDC)	—	Displays CAN communication status
HVAC power supply relay	—	Displays status of power (weak) supply relay to A/C auto amp.
Quick charge port temperature (Sensor 1)	°C	Displays temperature of quick charge port temperature sensor 1
Quick charge port temperature (Sensor 2)	°C	Displays temperature of quick charge port temperature sensor 2
CCS charge control status (Quick charge)	—	Displays charge control status of CCS (quick charge)
GB/T control status request (Quick charge)	—	Displays transmission request of CAN communication signal that vehicle transmits to charger in GB/T standard charge control,
Normal charge control status	—	Displays normal charge control status
Charge connector lock status	—	Displays charge connector lock feed back status
Quick charge connector (CHAdemo)	—	Displays connection status of quick charge connector (CHAdemo)
GB/T connection detecting voltage (Quick charge)	V	Displays voltage of GB/T charge connector (quick charge) lock detection line
CHAdemo charger d1 switch	—	Displays status of CHAdemo charger d1 switch (charge start stop 2)
CHAdemo charger d2 switch	—	Displays status of CHAdemo charger d2 switch (charge start stop 2)
HVB sensor 1 pressure delay	mbar	This item is displayed but not used.
HVB sensor 2 pressure delay	mbar	This item is displayed but not used.
Engine coolant temp	°C	This item is displayed but not used.
Water pump 1 status	—	Displays status of water pump 1 (high voltage component parts cooling system)
Water pump 2 status	—	Displays status of water pump 2 (high voltage battery cooling system)

## DATA MONITOR MODE

## Monitored Item



### NOTE:

- The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.
- For reference values of the following items, Refer to [Physical Values](#).

Monitor item	Unit	Function
Accelerator sensor 1 voltage	V	Displays accelerator pedal position sensor signal 1 signal voltage
Accelerator sensor 2 voltage	V	Displays accelerator pedal position sensor signal 2 signal voltage
ASCD current speed	km/h	Displays actual vehicle speed of ASCD control
ASCD target vehicle speed	km/h	Displays target vehicle speed of ASCD control
Speed limiter set vehicle speed	km/h	Displays vehicle speed setting of the speed limiter.
Driver brake	—	Displays driver's brake pedal operation status <ul style="list-style-type: none"><li>• OFF: Not depressing status</li><li>• ON: Depressing status</li></ul>
Distance switch	—	Displays ON/OFF status of the inter-vehicle distance setting switch. <ul style="list-style-type: none"><li>• OFF: When the inter-vehicle distance setting switch is not operated</li><li>• ON: When the inter-vehicle distance setting switch is operated</li></ul>
Stop lamp switch (BNO)	—	Displays ON/OFF status of the stop lamp switch (BNO) <ul style="list-style-type: none"><li>• OFF: Not depressing brake pedal status</li><li>• ON: Depressing brake pedal status</li></ul>
Stop lamp switch (BNC)	—	Displays ON/OFF status of the stop lamp switch (BNO) <ul style="list-style-type: none"><li>• ON: Depressing brake pedal status</li><li>• OFF: Not depressing brake pedal status</li></ul>
ASCD SET switch	—	Displays ON/OFF status of SET- switch. <ul style="list-style-type: none"><li>• OFF: When SET- switch is not operated</li><li>• ON: When SET- switch is operated</li></ul>
ASCD RESUME switch	—	Displays ON/OFF status of RES+ switch. <ul style="list-style-type: none"><li>• OFF: When RES+ switch is not operated</li><li>• ON: When RES+ switch is operated</li></ul>
ASCD CANCEL switch	—	Displays ON/OFF status of CANCEL switch. <ul style="list-style-type: none"><li>• OFF: When CANCEL switch is not operated</li><li>• ON: When CANCEL switch is operated</li></ul>
ASCD MAIN switch	—	Displays ON/OFF status of main switch.

Monitor item	Unit	Function
		<ul style="list-style-type: none"> <li>• OFF: When main switch is not operated</li> <li>• ON: When main switch is operated</li> </ul>
Lane change switch	—	Displays ON/OFF status of the lane departure support switch. <ul style="list-style-type: none"> <li>• OFF: Lane departure support switch is not operated</li> <li>• ON: Lane departure support switch is operated</li> </ul>
Speed meter display	—	Displays unit of vehicle speed display on the combination meter <ul style="list-style-type: none"> <li>• km/h</li> <li>• MPH</li> </ul>
ASCD set lamp	—	Indicates ON/OFF condition of ASCD set lamp <ul style="list-style-type: none"> <li>• OFF: Set lamp is OFF</li> <li>• ON: Set lamp is ON</li> </ul>
ASCD over drive monitor	—	Displays overdrive status of transmission <ul style="list-style-type: none"> <li>• OFF: Except overdrive</li> <li>• ON: Overdrive status</li> </ul>
ASCD CRUISE lamp	—	Indicates ON/OFF condition of ASCD cruise lamp <ul style="list-style-type: none"> <li>• OFF: Cruise lamp is OFF</li> <li>• ON: Cruise lamp is ON</li> </ul>
ASCD over drive cancel	—	Displays overdrive status when ASCD is cancelled. <ul style="list-style-type: none"> <li>• OFF: Overdrive is OFF</li> <li>• ON: Overdrive is ON</li> </ul>
ASCD slow speed cancel	—	Displays status of the lower limit vehicle speed when ASCD is cancelled. <ul style="list-style-type: none"> <li>• OFF: Lower limit vehicle speed or more</li> <li>• ON: Lower limit vehicle speed or less</li> </ul>
ASCD speed difference cancel	—	Displays status of difference between target vehicle speed and actual one when ASCD is cancelled. <ul style="list-style-type: none"> <li>• OFF: Difference is not large</li> <li>• ON: Difference is large</li> </ul>
ASL set lamp	—	Indicates ON/OFF condition of ASL set lamp <ul style="list-style-type: none"> <li>• OFF: Set lamp is OFF</li> <li>• ON: Set lamp is ON</li> </ul>
ASL main lamp	—	Indicates ON/OFF condition of ASL main lamp <ul style="list-style-type: none"> <li>• OFF: Main lamp is OFF</li> </ul>

Monitor item	Unit	Function
		<ul style="list-style-type: none"> <li>ON: Main lamp is ON</li> </ul>
Kick down	—	Displays kick-down judgement status <ul style="list-style-type: none"> <li>OFF: Kick down is OFF</li> <li>ON: Kick- down is ON</li> </ul>
ASCD clutch pedal switch	—	Displays clutch pedal switch status <ul style="list-style-type: none"> <li>OFF: Clutch pedal is not depressed</li> <li>ON: Clutch pedal is depressed</li> </ul>
ASL main switch	—	Displays ON/OFF status of main switch (ASL) <ul style="list-style-type: none"> <li>OFF: Main switch is not operated</li> <li>ON: Main switch is operated</li> </ul>
Engine coolant temp	°C	This item is displayed but not used.
Vehicle speed	km/h	Displays vehicle speed that is calculated based on front traction motor speed received from inverter (front).
12V battery voltage	V	Displays 12V battery voltage
Refrigerant pressure sensor voltage	V	Displays A/C refrigerant pressure sensor voltage
IGN switch signal	—	Displays status of ignition switch signal <ul style="list-style-type: none"> <li>OFF: Ignition switch is OFF (Power switch is OFF)</li> <li>ON: Ignition switch is ON (Power switch is ON)</li> </ul>
Brake pedal state	—	Displays brake pedal status <ul style="list-style-type: none"> <li>OFF: Pedal is released</li> <li>ON: Pedal is depressed</li> <li>Switch error: Both BNO and BNC switch are pushed condition.</li> </ul>
Sensor power supply voltage 1	mV	Displays sensor power supply 1 system voltage
Sensor power supply voltage 2	mV	Displays sensor power supply 2 system voltage
Sensor power supply voltage 3	mV	Displays sensor power supply 3 system voltage
Accel pedal ratio	—	Displays accelerator pedal ratio <ul style="list-style-type: none"> <li>*1: Fully depressed condition of accelerator pedal</li> <li>*0: Completely released condition of accelerator pedal</li> </ul>
Sensor power supply voltage 4	mV	This item is displayed but not used.
DC/DC input current (CAN)	A	This item is displayed but not used.
DC/DC voltage (CAN)	V	This item is displayed but not used.
High voltage battery level	%	Displays charge status of high voltage battery
Ambient temperature	°C	Displays ambient temperature received from A/C auto amp
Inverter side voltage	V	Displays voltage of inverter side of high voltage line
High voltage battery side voltage	V	Displays voltage of high voltage battery side of high voltage line

Monitor item	Unit	Function
Cruise control status	—	This item is displayed but not used.
DC/DC activation	—	This item is displayed but not used.
High voltage battery side current	A	Displays current of high voltage battery side of high voltage line
High voltage battery SOC	%	Displays high voltage battery charge level
DC/DC management status	—	This item is displayed but not used.
Front traction motor inverter request	—	Displays inverter (front) operation request status <ul style="list-style-type: none"> <li>• Inverter request off</li> <li>• Inverter request on</li> <li>• Inverter request discharge</li> <li>• Inverter request alternator mode</li> <li>• Inverter request ready to sleep</li> </ul>
DC/DC temperature	°C	This item is displayed but not used.
Minimum cell voltage	V	Displays minimum voltage of high voltage battery cell
DC/DC status (CAN)	—	Displays CAN communication error status of DC/DC converter <ul style="list-style-type: none"> <li>• Error</li> <li>• No error</li> <li>• No data</li> </ul>
C/U sleep status	—	This item is displayed but not used.
High voltage battery maximum cell voltage	V	Displays maximum voltage of high voltage battery cell
Front traction motor torque	N·m	Displays torque vale of front traction motor
High voltage battery maximum temperature	°C	Displays maximum temperature of high voltage battery
High voltage battery minimum temperature	°C	Displays minimum temperature of high voltage battery
Inverter side current	A	Displays current of inverter side of high voltage line
Front traction motor inverter input water temperature	°C	This item is displayed but not used.
System main relay 1 request	—	Displays system main relay 1 operation request status <ul style="list-style-type: none"> <li>• No request</li> <li>• Request</li> </ul>
Water pump 1 status	—	Displays water pump 1 (high voltage component parts cooling system) status <ul style="list-style-type: none"> <li>• Normal status</li> <li>• Unsufficient speed status</li> <li>• Over temperature status</li> <li>• Over temperature warning status</li> <li>• Voltage error status</li> <li>• Dry run state</li> </ul>

Monitor item	Unit	Function
		<ul style="list-style-type: none"> <li>No pump feedback status</li> </ul>
Battery fan PWM	Hz	This item is displayed but not used.
Front traction motor inverter status (CAN)	—	Displays CAN communication error status of inverter (front) <ul style="list-style-type: none"> <li>ECU status present</li> <li>ECU status absent</li> <li>ECU status confirmed absent</li> </ul>
Front traction motor inverter output water temperature	°C	This item is displayed but not used.
High voltage connection state	—	Displays high voltage connection status <ul style="list-style-type: none"> <li>Open</li> <li>Med</li> <li>Connected</li> </ul>
Pre-charge relay request	—	Displays pre change relay operation request status <ul style="list-style-type: none"> <li>no request</li> <li>request</li> </ul>
Ambient temperature	°C	Displays ambient temperature
Available power in discharge	kW	Displays dischargeable power
LBC status (CAN)	—	Displays LBC CAN communication error status <ul style="list-style-type: none"> <li>ECU status present</li> <li>ECU status absent</li> <li>ECU status confirmed absent</li> </ul>
Water pump 1 request duty	%	Displays rotation duty status of electric water pump 1
Front traction motor inverter status	—	Displays inverter (front) status <ul style="list-style-type: none"> <li>Power OFF</li> <li>Stand by mode</li> <li>Power ON</li> <li>Alternator mode</li> <li>Sleep</li> </ul>
Available charge power (high voltage battery)	kW	Displays chargeable power to high voltage battery
Refrigerant pressure	bar	Displays A/C refrigerant pressure
Front traction motor inverter voltage	V	Displays voltage of inverter side of high voltage line
System main relay ON state	—	Displays main relay ON permission status from high voltage battery <ul style="list-style-type: none"> <li>Not authorized</li> </ul>

Monitor item	Unit	Function
		<ul style="list-style-type: none"> <li>Authorized</li> </ul>
LBC activation status	—	Displays LBC start status <ul style="list-style-type: none"> <li>WITHOUT</li> <li>WITH</li> </ul>
High voltage battery state request	—	This item is displayed but not used.
Absolute time since first ignition	min	This item is displayed but not used.
Grille shutter 1 set position	%	Displays active grill shutter 1 opening angle
Driver side door state	—	Displays Open/Close status of driver's door <ul style="list-style-type: none"> <li>Close</li> <li>Open</li> </ul>
Shift position	—	Displays shift position <ul style="list-style-type: none"> <li>R</li> <li>N</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>5</li> <li>6</li> <li>7</li> <li>P</li> <li>D</li> <li>Manual mode</li> <li>Intermediate position (P/R, N/R)</li> <li>Intermediate position (N/D)</li> <li>Intermediate position</li> </ul>
High voltage connection enable state	—	Displays permitted / prohibited status of high-power connection. <ul style="list-style-type: none"> <li>Not authorized</li> <li>Authorized</li> </ul>
Water pump 2 request duty	%	Displays rotation duty command value of electric water pump 2
Cooling fan request duty	%	Displays rotation duty command value of electric radiator fan
High voltage ready available status	—	Displays high voltage availability status. <ul style="list-style-type: none"> <li>Unavailable</li> <li>Available</li> </ul>



Monitor item	Unit	Function
Port lid open close command	—	This item is displayed but not used.
Charge connector lock request	—	Displays command status to charge connector lock actuator <ul style="list-style-type: none"> <li>• No request</li> <li>• Unlock request</li> <li>• Lock request</li> </ul>
PHEV pump 1 counter	s	This item is displayed but not used.
PHEV pump 3 counter	s	This item is displayed but not used.
Power consumption (A/C)	W	This item is displayed but not used.
Charge type	—	Displays charge type <ul style="list-style-type: none"> <li>• No charge</li> <li>• AC charge</li> <li>• DC CHAdeMO charge</li> <li>• DC Combo charge</li> <li>• DC GBT charge</li> <li>• Not used</li> </ul>
Charge connector unlock request	—	Displays charge connector unlock request status <ul style="list-style-type: none"> <li>• Unavailable</li> <li>• Unlock request</li> <li>• Unlock not requested</li> </ul>
Charge connector connection detecting	—	Displays lock status of AC charge plug or DC CCS charge plug <ul style="list-style-type: none"> <li>• Not present</li> <li>• present</li> </ul>
Charge request status	—	Displays status upon charge request <ul style="list-style-type: none"> <li>• Standby</li> <li>• Power on</li> <li>• Charge</li> <li>• Unavailable</li> </ul>
On-board charger status	—	Displays charge status of in-vehicle charger <ul style="list-style-type: none"> <li>• Standby</li> <li>• Power On</li> <li>• Charge</li> </ul>

Monitor item	Unit	Function
Quick charge port high voltage	—	<p>Displays whether high voltage is available at quick charge port</p> <ul style="list-style-type: none"> <li>• Not present</li> <li>• present</li> </ul>
AC charge voltage	V	Displays AC charge inlet effective voltage
On-board charger error	—	<p>Displays in-vehicle charger error status</p> <ul style="list-style-type: none"> <li>• No error</li> <li>• Error 1</li> <li>• Error 2</li> <li>• Error 3</li> <li>• Error 4</li> <li>• Error 5</li> <li>• Error 6</li> <li>• Error 7</li> </ul>
Charger communication (Vehicle)	—	<p>Displays communication status between charger and vehicle. Especially, it means the state of the vehicle in the charging sequence.</p> <ul style="list-style-type: none"> <li>• No charge</li> <li>• Communication start</li> <li>• Parameter check</li> <li>• Cable check</li> <li>• Pre-charge</li> <li>• Power delivery request</li> <li>• Current demand request</li> <li>• Stop request</li> <li>• Welding detection request</li> <li>• Charge stop</li> <li>• Charge connector unplug</li> </ul>
Charger request current	A	Displays charge current value which vehicle requests charger
Charger communication (Charger)	—	<p>Displays communication status between charger and vehicle. Especially, it means the state of the vehicle in the charging sequence.</p> <ul style="list-style-type: none"> <li>• No charge</li> <li>• Communication service setting request state</li> <li>• Parameter check</li> <li>• Cable check</li> <li>• Pre-charge</li> <li>• Power delivery request state</li> </ul>