

# DTC P1791 LINE PRESSURE SENSOR

## Description

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Oil pressure in the output pulley is detected, and then sent to TCM to control the line pressure.

NAK75257

### CONSULT-II REFERENCE VALUE IN DATA MONITOR MODE

NAKAT0267561



Remarks: Specification data are reference values.

Monitor item	Condition	Specification
LINE PRES SEN	Vehicle is being driven.	Approximately 0.5 - 5.5 Mpa

### TCM TERMINALS AND REFERENCE VALUE




NAKAT0267562

Remarks: Specification data are reference values.

Terminal No.	Wire color	Item	Condition	Judgement standard (Approx.)
27	B/R	Line pressure sensor	 When setting selector lever to other position	0 MPa
			 When setting selector lever to "N" position	2 MPa

### ON BOARD DIAGNOSIS LOGIC

NAKAT0267563

Diagnostic trouble code	Malfunction is detected when ...	Check items (Possible cause)
 : LINE PRESSURE SEN	TCM detects that the difference between target value and actual value exceeds the specified value continuously for more than the specified time.	<ul style="list-style-type: none"> <li>• Harness or connectors (The solenoid circuit is open or shorted.)</li> <li>• Line pressure sensor</li> </ul>
 : P1791		
 : Mi Code No. 1791		

DIAGNOSIS SYSTEM SELECTION
CVT
ENGINE

SAT551J

### DIAGNOSTIC TROUBLE CODE (DTC) CONFIRMATION PROCEDURE

NAKAT0267564

#### CAUTION:

Always drive vehicle at a safe speed.

#### NOTE:

If "DIAGNOSTIC TROUBLE CODE CONFIRMATION PROCEDURE" has been previously conducted, always turn ignition switch "OFF" and wait at least 5 seconds before conducting the next test.

After the repair, perform the following procedure to confirm that the malfunction is eliminated.

#### ④ With CONSULT-II


- 1) Turn ignition switch "ON" and select "DATA MONITOR" mode for "ENGINE" with CONSULT-II.  
If the check result is NG, go to "Diagnostic Procedure", AT-7109.

DTC P1791 LINE PRESSURE SENSOR

Description (Cont'd)

DIAGNOSIS MODE SELECTION
WORK SUPPORT
SELF DIAGNOSIS
DATA MONITOR
TCM PART NUMBER

SAT577J

 **With GST**  
Follow the procedures under "With CONSULT-III".

DIAGNOSIS MODE SELECTION
WORK SUPPORT
SELF DIAGNOSIS
DATA MONITOR
ACTIVE TEST
FUNCTION TEST
DTC WORK SUPPORT

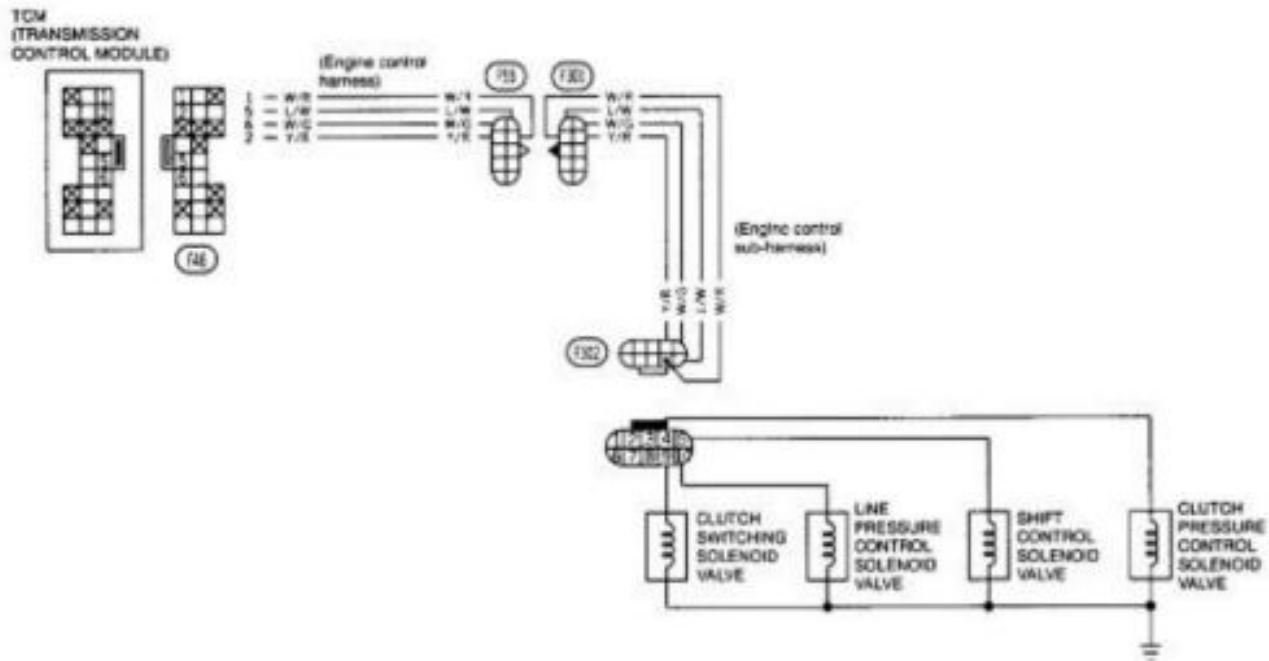
SAT654J

## DTC P1791 LINE PRESSURE SENSOR

Wiring Diagram — LPS —

### Wiring Diagram — LPS —

NA472198



YAT198

AT-7108

# DTC P1791 LINE PRESSURE SENSOR

Diagnostic Procedure

## Diagnostic Procedure

NGATEXXXX

<b>1</b>	<b>CHECK LINE PRESSURE SENSOR</b>
Refer to "Component Inspection" AT-7110.	
<b>OK or NG</b>	
OK (With CONSULT-II) ▶	GO TO 2.
OK (Without CONSULT-II) ▶	GO TO 3.
NG ▶	Repair or replace output pulley speed sensor.

<b>2</b>	<b>CHECK POWER SOURCE CIRCUIT</b>
<b>With CONSULT-II</b> 1. Start engine. 2. Select "ECU Input Item Parameter List" in "DATA MONITOR" mode for "CVT" with CONSULT-II. 3. Read out the value of "LINE PRESS SEN" while driving. Check the value changes according to driving speed. <b>Specification:</b> <b>Approximately 0.5 - 5.5 Mpa</b>	
<b>OK or NG</b>	
OK ▶	GO TO 4.
NG ▶	<b>Check the following items:</b> <ul style="list-style-type: none"><li>• Harness for short or open between TCM, ECM and output pulley speed sensor (Main-harness)</li><li>• Ground circuit for ECM</li></ul> Refer to EC section ("TROUBLE DIAGNOSIS FOR POWER SUPPLY").

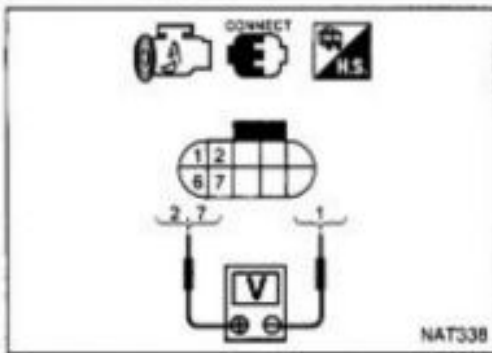
<b>3</b>	<b>CHECK INPUT SIGNAL (Without CONSULT-II)</b>
<b>Without CONSULT-II</b> Refer to "Component Inspection", AT-7110.	
<b>OK or NG</b>	
OK ▶	GO TO 4.
NG ▶	<b>Check the following items:</b> <ul style="list-style-type: none"><li>• Harness for short or open between TCM, ECM and CVT fluid pressure sensor (Mainharness).</li><li>• Ground circuit for ECM</li></ul> Refer to EC section ("TROUBLE DIAGNOSIS FOR POWER SUPPLY").

<b>4</b>	<b>CHECK DTC</b>
Perform Diagnostic Trouble Code (DTC) confirmation procedure, AT-7108.	
<b>OK or NG</b>	
OK ▶	<b>INSPECTION END</b>
NG ▶	1. Perform TCM input/output signal inspection. 2. If NG, recheck TCM pin terminals for damage or loose connection with harness connector.

AT-7109

## DTC P1791 LINE PRESSURE SENSOR

### Component Inspection



### Component Inspection

#### LINE PRESSURE SENSOR

1. Start engine.
2. Check voltage line pressure sensor connector F302.

Terminal No		Voltage
2	1	Approximately 5V
7	1	Approximately 0.5V

AT-7110