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PRECAUTIONS

PRECAUTIONS PFP:00001

Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

EIS00461

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Trouble Diagnosis Precaution

FIS0046.I

When you read wiring diagrams, refer to the following:

- GI-15, "How to Read Wiring Diagrams"
- PG-4, "POWER SUPPLY ROUTING CIRCUIT"

When you perform trouble diagnosis, refer to the following:

- GI-11, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"
- GI-27, "How to Perform Efficient Diagnosis for an Electrical Incident"

Check for any service bulletins before servicing the vehicle.

PFP:98800

Automatic Drive Positioner Adjustable Pedal

FIS0046K

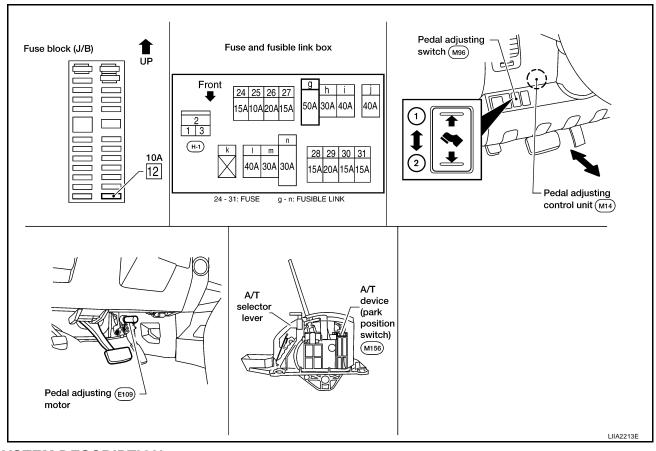
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For automatic drive positioner adjustable pedal, refer to <u>SE-11, "AUTOMATIC DRIVE POSITIONER"</u>.

Adjustable Pedal (Only Manual Operation Model) COMPONENT PARTS AND HARNESS CONNECTOR LOCATION

EIS0046L



SYSTEM DESCRIPTION

The adjustable pedal system power supply is controlled by the pedal adjusting control unit. Power is supplied at all times

- through 50A fusible link (letter g, located in the fuse and fusible link box)
- to circuit breaker-2 terminal 2
- through circuit breaker-2 terminal 1
- to pedal adjusting control unit terminal 5.

With the ignition switch in ON or START, power is supplied

- through 10A fuse [No. 12, located in the fuse block (J/B)]
- to pedal adjusting control unit terminal 4.

Ground is supplied

- to pedal adjusting switch terminal 4
- to pedal adjusting control unit terminal 1
- through body grounds M57, M61 and M79.

When the A/T selector lever is in P position, ground is supplied

- to pedal adjusting control unit terminal 3
- through A/T device terminal 4
- through A/T device terminal 2
- through body grounds M57, M61 and M79.

Then pedal adjusting control unit recognizes that the A/T selector lever is in P position.

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With power supplied, pedal adjusting switch is energized. When pedal is adjusted forward, power is supplied

- through pedal adjusting switch terminal 3
- to pedal adjusting motor terminal 1.

Then ground is supplied

- to pedal adjusting motor terminal 2
- through pedal adjusting switch terminal 2
- through pedal adjusting switch terminal 4
- through body grounds M57, M61 and M79.

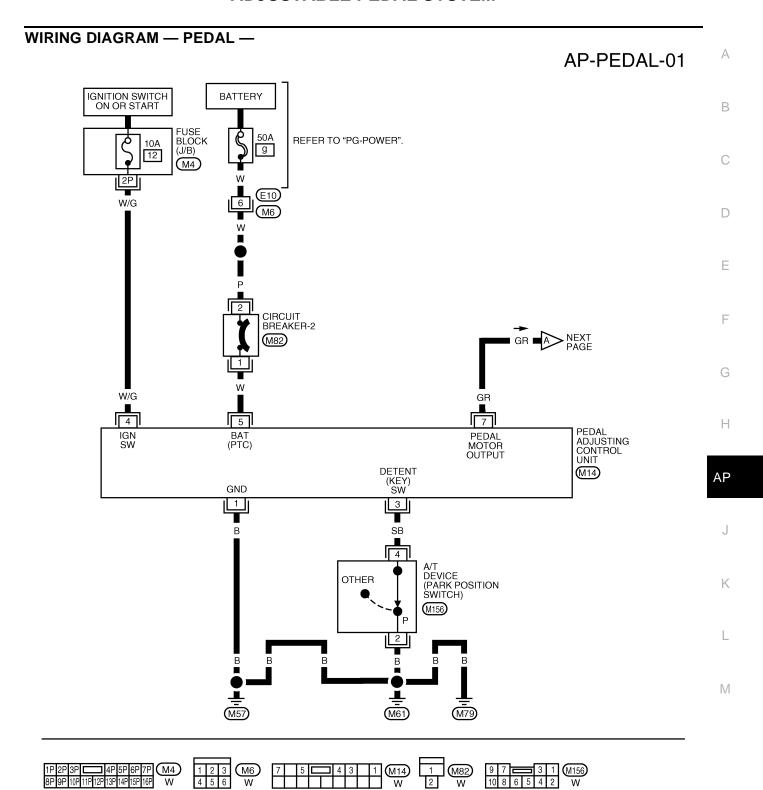
When power and ground are supplied, accelerator and brake pedals move forward. When pedal is adjusted backward, power is supplied

- through pedal adjusting switch terminal 2
- to pedal adjusting motor terminal 2.

Then ground is supplied

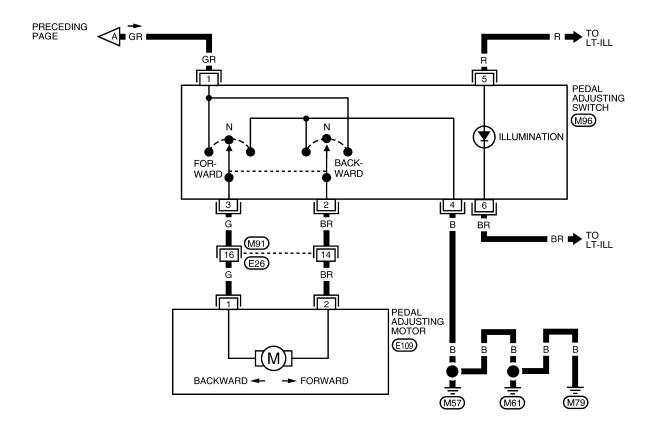
- to pedal adjusting motor terminal 1
- through pedal adjusting switch terminal 3
- through pedal adjusting switch terminal 4
- through body grounds M57, M61 and M79.

When power and ground are supplied, accelerator and brake pedals move backward.



WIWA1025E

AP-PEDAL-02





WIWA0523E

NAL	WIRE COLOR	ITEM	CONDITON	VOLTAGE (V) (Approx.)
1	В	Ground	_	0
3	SB	A/T device (park position switch) signal	A/T selector lever in other than P position	Battery voltage
3	35	A/1 device (park position switch) signal	A/T selector lever in P position	0
4	W/G	Ignition switch (ON or START)	Ignition switch (ON or START position)	Battery voltage
5	W	Battery power supply	_	Battery voltage
7	GR	Pedal adjusting switch power supply out-	Ignition switch ON A/T selector lever in other than P position	0
,	GK	put	Ignition switch ON A/T selector lever in P position	Battery voltage
Accord "TROU Does a	ling to the	iminary check. Refer to AP-7, "PRE e trouble diagnosis chart, repair or GNOSIS CHART BY SYMPTOM". pedal system operate normally?	ELIMINARY CHECK". replace the cause of the malfunctio	n. Refer to <u>AP-8,</u>
NO: G	O TO 3. tion End.			
ELIMIN	IARY CH	IECK		
CHEC	K ADJUS	TABLE PEDAL MECHANISM		
	following.			
eck the		accolorator padal or braka padal ia	deformed, or there is foreign materia	l in it
	le part of	accelerator pedal of brake pedal is	deformed, or there is foreign materia	

TROUBLE DIAGNOSIS CHART BY SYMPTOM

NOTE:

Always check the WORK FLOW before troubleshooting. Refer to AP-7, "WORK FLOW" .

Symptom	Diagnosis / service procedure	Reference page
	Pedal adjusting control unit power supply and ground circuit inspection.	<u>AP-9</u>
Adjustable pedal system does not operate.	2. Pedal adjusting switch power supply and ground circuit inspection.	AP-11
	3. Pedal adjusting motor circuit inspection.	<u>AP-12</u>
	4. Replace pedal adjusting motor.	<u>AP-13</u>
Adjustable pedal system does operate when	1. A/T device circuit inspection.	AP-10
ignition switch is turned ON and A/T selector	2. Pedal adjusting control unit ignition signal inspection.	<u>AP-8</u>
lever is in other than P position.	3. Replace pedal adjusting control unit.	_
Adjustable pedal system does not operate when ignition switch is turned ON and A/T selector lever is in P position.	A/T device circuit inspection.	<u>AP-10</u>

PEDAL ADJUSTING CONTROL UNIT IGNITION SIGNAL INSPECTION

1. CHECK FUSE

Check 10A fuse [No. 12, located in fuse block (J/B)].

NOTE:

Refer to AP-3, "COMPONENT PARTS AND HARNESS CONNECTOR LOCATION".

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to <u>PG-4, "POWER SUPPLY ROUTING CIRCUIT"</u>.

2. CHECK PEDAL ADJUSTING CONTROL UNIT IGNITION POWER SUPPLY CIRCUIT

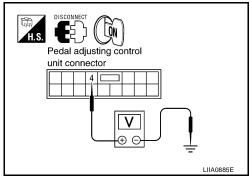
- 1. Turn ignition switch OFF.
- 2. Disconnect pedal adjusting control unit.
- 3. Check voltage between pedal adjusting control unit connector M14 terminal 4 and ground.

Connector	Terr	ninal	Condition	Voltage (V)
	(+)	(-)		(Approx.)
M14	4 Ground		Ignition switch ON	Battery voltage
WIT4 4 GIOUITU		Ignition switch OFF	0	

OK or NG

OK >> Pedal adjusting control unit ignition signal is OK.

NG >> Repair or replace the harness.

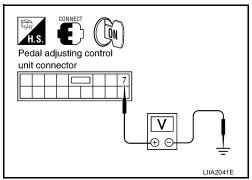


PEDAL ADJUSTING CONTROL UNIT POWER SUPPLY AND GROUND INSPECTION

1. CHECK PEDAL ADJUSTING CONTROL UNIT OUTPUT POWER SUPPLY

- 1. Turn ignition switch ON.
- 2. Check voltage between pedal adjusting control unit connector M14 terminal 7 and ground.

Connector	Terminal Condition		Voltage (V)	
	(+)	(-)	Condition	(Approx.)
M14	7	Ground	Ignition switch ON A/T selector lever in P position	Battery voltage
10114	<i>'</i>	Giouna	Ignition switch OFF A/T selector lever in other than P position	0



OK or NG

OK >> Pedal adjusting control unit power supply is OK.

NG >> GO TO 2.

2. CHECK PEDAL ADJUSTING CONTROL UNIT POWER SUPPLY CIRCUIT

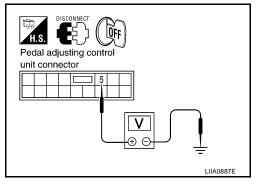
- 1. Disconnect pedal adjusting control unit.
- 2. Check voltage between pedal adjusting control unit connector M14 terminal 5 and ground.

5 - Ground : Battery voltage

OK or NG

OK >> GO TO 3.

NG >> Repair or replace the harness.



3. CHECK PEDAL ADJUSTING CONTROL UNIT GROUND CIRCUIT

Check continuity between pedal adjusting control unit connector M14 terminal 1 and ground.

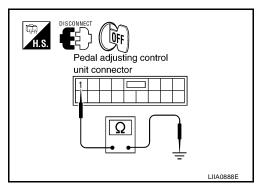
1 - Ground

: Continuity should exist.

OK or NG

OK >> Replace pedal adjusting control unit.

NG >> Repair or replace the harness.



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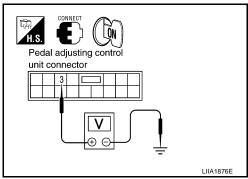
2005 Pathfinder

A/T DEVICE CIRCUIT INSPECTION

1. CHECK PEDAL ADJUSTING CONTROL UNIT A/T DEVICE (PARK POSITION SWITCH) INPUT CIR-CUIT

- 1. Turn ignition switch ON.
- Check voltage between pedal adjusting control unit connector M14 terminal 3 and ground.

M14 3 Ground A/T selector lever in P 0 A/T selector lever in other Battery voltage	Connector	Terr	ninal	Condition	Voltage (V)
M14 3 Ground position 0 A/T selector lever in other Battery voltage		(+)	(-)	Condition	(Approx.)
A/T selector lever in other Battery voltage	M14	3	Ground		0
		3	Ground	A/T selector lever in other than P position	Battery voltage



OK or NG

OK >> GO TO 2.

NG >> Replace pedal adjusting control unit.

2. CHECK A/T DEVICE HARNESS

- 1. Turn ignition switch OFF.
- 2. Disconnect pedal adjusting control unit and A/T device.
- 3. Check continuity between pedal adjusting control unit connector M14 terminal 3 and A/T device connector M156 terminal 4.

3 - 4 : Continuity should exist.

4. Check continuity between pedal adjusting control unit connector M14 terminal 3 and ground.

3 - Ground : Continuity should not exist.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace harness.

unit connector Q =

Pedal adjusting control

A/T device connector

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3. CHECK A/T DEVICE

Check continuity between A/T device terminals as follows.

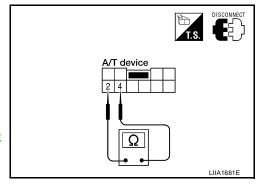
Terr	minal	Condition	Continuity	
2	4	P position	Yes	
2 4	Other than P position	No		

OK or NG

NG

OK >> GO TO 4.

>> Replace A/T device. Refer to AT-221, "Control Device Removal and Installation".



4. CHECK A/T DEVICE GROUND CIRCUIT

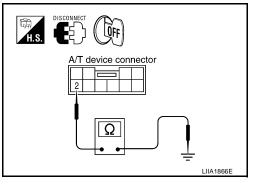
Check continuity between A/T device connector M156 terminal 2 and ground.

2 - Ground : Continuity should exist.

OK or NG

OK >> Replace pedal adjusting control unit.

NG >> Repair or replace harness.



PEDAL ADJUSTING SWITCH POWER SUPPLY AND GROUND INSPECTION

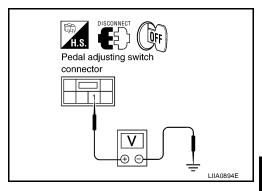
1. CHECK PEDAL ADJUSTING SWITCH POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect pedal adjusting switch.
- 3. Check voltage between pedal adjusting switch connector M96 terminal 1 and ground.

1 - Ground : Battery voltage

OK or NG

OK >> GO TO 3. NG >> GO TO 2.



2. CHECK PEDAL ADJUSTING SWITCH HARNESS

- 1. Disconnect pedal adjusting control unit.
- Check continuity between pedal adjusting control unit connector M14 terminal 7 and pedal adjusting switch connector M96 terminal 1.

7 - 1 : Continuity should exist.

- Check continuity between pedal adjusting control unit connector M14 terminal 7 and ground.
 - 7 Ground : Continuity should not exist.

OK or NG

OK >> Replace pedal adjusting control unit.

NG >> Repair or replace harness.

3. CHECK PEDAL ADJUSTING SWITCH GROUND CIRCUIT

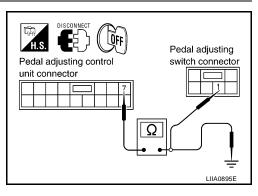
Check continuity between pedal adjusting switch connector M96 terminal 4 and ground.

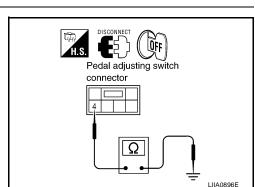
4 - Ground : Continuity should exist.

OK or NG

OK >> Pedal adjusting switch power supply and ground circuit is OK.

NG >> Repair or replace the harness.





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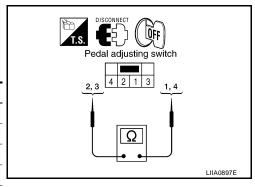
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PEDAL ADJUSTING MOTOR CIRCUIT INSPECTION

1. CHECK PEDAL ADJUSTING SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect pedal adjusting switch.
- Check continuity between pedal adjusting switch terminals as follows.

Terminals		Condition	Continuity	
1		Pedal adjusting switch forward	Yes	
3	'	Pedal adjusting switch neutral	No	
3	4	Pedal adjusting switch backward	Yes	
4	Pedal adjusting switch neutral	No		
	1	Pedal adjusting switch backward	Yes	
2	2	Pedal adjusting switch neutral	No	
4	Pedal adjusting switch forward	Yes		
	4	Pedal adjusting switch neutral	No	



OK or NG

OK >> GO TO 2.

NG >> Replace pedal adjusting switch.

2. CHECK PEDAL ADJUSTING MOTOR HARNESS

- 1. Disconnect pedal adjusting motor.
- Check continuity between pedal adjusting switch connector M96 terminals 2, 3 and pedal adjusting motor connector E109 terminals 1, 2.

2 - 2 : Continuity should exist.3 - 1 : Continuity should exist.

3. Check continuity between pedal adjusting switch connector M96 terminals 2, 3 and ground.

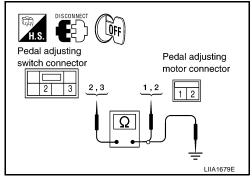
2 - Ground : Continuity should not exist.3 - Ground : Continuity should not exist.

M96

OK or NG

OK >> Replace pedal adjusting motor.

NG >> Repair or replace harness.



Removal and Installation EIS0046N Α Refer to ACC-2, "ACCELERATOR CONTROL SYSTEM" and BR-6, "BRAKE PEDAL" . В С D Е Н AP

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