The precheck is simply to make sure the shifter and mode switch are in their proper position before starting the code retrieval routine.

the codes again. If the component checks okay, but the code comes back, check the circuit at the computer. The computer is located under the dash on the driver's side. Figure six illustrates the pins, and their functions. Figure seven provides testing parameters.

Working on the NPR computer system is a breeze. Anyone who has had any experience with the Nissan system will feel right at home.

					1		(2)	ا ساسا						1	110	احند ا
			<u></u>				120) pin)							(10	pin)
1 3	2 3	4	5	6	7	X	9	10	21	22	23	24	25	26	X	28
11 1	2 🗙	14	15	16	17	X	19	20	29	30	31	32	33	34	35	36
		*					harronni				·					<u></u>
Pin No. Function Pin No. Function																
1.	E															
2.					9.	Nutral range switch										
3.	1 range switch				0.	D range switch										
		Exhaust brake signal			-	1,	Overrun clutch solenoid									
4.		Idle switch				2.	Lock-up duty solenoid									
5.	Diagnosis terminal			_	3.	Economy drive indicator										
6.		Overdrive switch				4.	Vehicle speed sensor 2									
7.	KICK-	Kick-down switch			2	5.	Engine revolution sensor									
8.	_								2	6.	Reverse range switch					
9.		omy d							2	7.	-					
10.		Throttle sensor voltage (5V out)			2	8.	Battery back-up voltage									
11.		Throttle sensor			2	9.	Ignition voltage									
12.	ATF Thermosensor			3	0.	Ignition voltage										
13.	-								3	1.	Grou	ind	1571			
14.	Idle switch voltage				3	2.	Ground									
15.	Throttle sensor ground					3.	Duty solenoid (Dropping register)									
16.	Vehicle speed sensor 1				_	4.	Duty solenoid (Line pressure)									
17.	Full t	hrottle	switc	ch:						5.			noid .		F- 200	
18.	_									6.	Shif	sole	noid	В		

JR403E System Diagnosis (continued) Circuit Testing

Figure 6

Pin	Function	Operating Conditions	Measurement		
1	Inhibitor Switch;	In Manual 2	Battery Voltage		
	Manual 2 Input	All ranges except Manual 2	Zero Volts		
2	Inhibitor Switch;	In Manual L	Battery Voltage		
	Manual L Input	All ranges except Manual L	Zero Volts		
3	Brake Switch	Brake pedal applied	Battery Voltage		
		Brake pedal released	Zero Volts		
4	Idle Switch	Accelerator pedal applied	Less than 1,0 Volt		
		Accelerator pedal released	8 15 Velts		
5 Early — N/A		2			
	Late Diagnostic Link				
6	Overdrive Switch	Overdrive switch off	Battery Voltage		
		Overdrive switch on	Less than 1.0 Volt		
7	Kickdown Switch	Accelerator pedal applied	Less than 1.0 Volt		
		Accelerator pedal released	3 - 8 Volts		
8	N/A				
9	Economy Switch	Switch set to Normal	3 - 8 Volts		
		Switch set to Economy	Less than 1.0 Volt		
10	TPS Reference	Key on	4.5 - 5.5 Volts		
11	TPS Signal	ldle	4.0 - 4.9 Voits		
		Wide-open throttle	0.1 - 1.8 Volts		
12	ATF Temperature	At 50° F (10° C)	About 1.8 Volts		
	Sensor	At 104° F (40° C)	About 1.1 Volts		
13	N/A				
14	Idle:Full Throttie Ref.	Key on	8 - 15 Volts		
15	Sensor Ground	Always	Less than 0.1 Volts		
16	VSS1 (at Transmission)	With output shaft rotating	Square Wave DC Signal		
17	Full Throttle Switch	ldle	Less than 1 Volt		
		Accelerator more than halfway down	8 - 15 Volts		

Continued

Figure 7A

JR403E System Diagnosis (continued) Circuit Testing (continued)

Pin	Function	Operating Conditions	Measurement		
18	N/A				
19	Inhibitor Switch;	in Neutral	Battery Voltage		
	Neutral Input	All ranges except Neutral	Zero Volts		
	Inhibitor Switch;	In Drive	Battery Voltage		
	Drive Input	All ranges except Drive	Zero Volts		
21	Overrun Clutch Solenoid	Solenoid on	Battery Voltage		
		Solenoid off	Zero Voits		
22	Lockup Solenoid	Converter clutch applied	8 - 15 Volts		
		Converter clutch released	Less than 1.0 Volt		
23	Economy Switch	Switch in normal position; key on	Battery Voltage		
1		Switch in economy position; key on	Less than 1.0 Volt		
24	VSS2 (in Speedometer)	With speedometer cable rotating	Square Wave DC Signa		
25	Engine RPM Sensor	Engine off	Zero Volts AC		
		Engine running	Varying Votts AC		
26	Inhibitor Switch;	In Reverse	Battery Voltage		
	Reverse input	All ranges except Reverse	Zero Volts		
27	N/A				
28	Keep-Alive Power	Always	Battery Voltage		
29	Ignition	Key on	Battery Voltage		
30	Ignition	Key on	Battery Voltage		
31	Ground	Always	Less than 0.1 Volt		
32	Ground	Always	Less than 0.1 Volt		
33	Line Pressure Control	ldie	1.5 2.5 Valts		
	Sciencid	Full throttle	Less than 0.5 Voits		
34	Line Press. Control Sci.	ldle	5 14 Volts		
	w/Drapping Resistor	Full throttle	Less than 0.5 Volts		
35	Shift Solenoid A	Solenoid on	Battery Voltage		
		Solenoid off	Zero Votts		
36	Shift Solenoid B	Solenoid on	Battery Voitage		
		Solenoid off	Zero Volts		

Figure 78