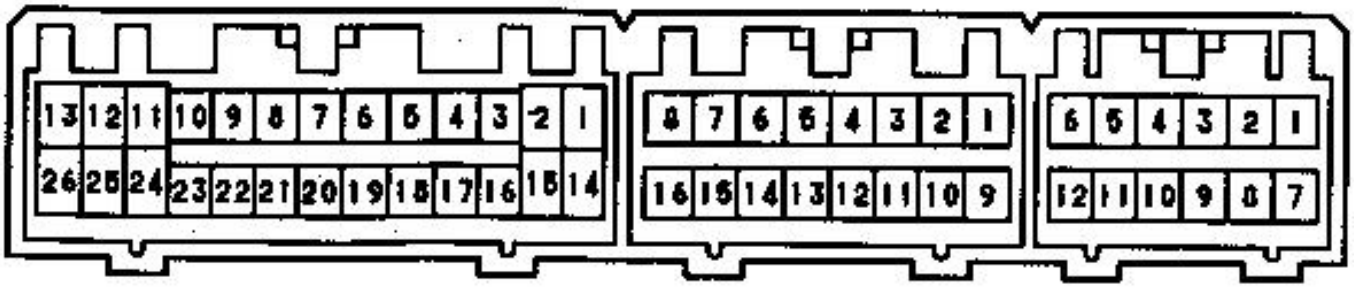
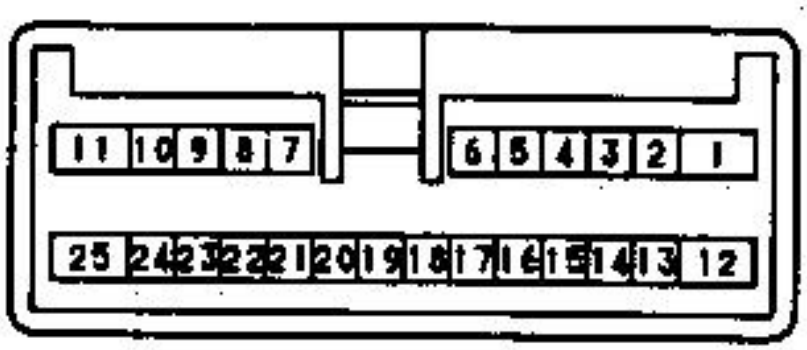
UZZ32 - HYDRONEUMATIC SUSPENSION COMPUTER

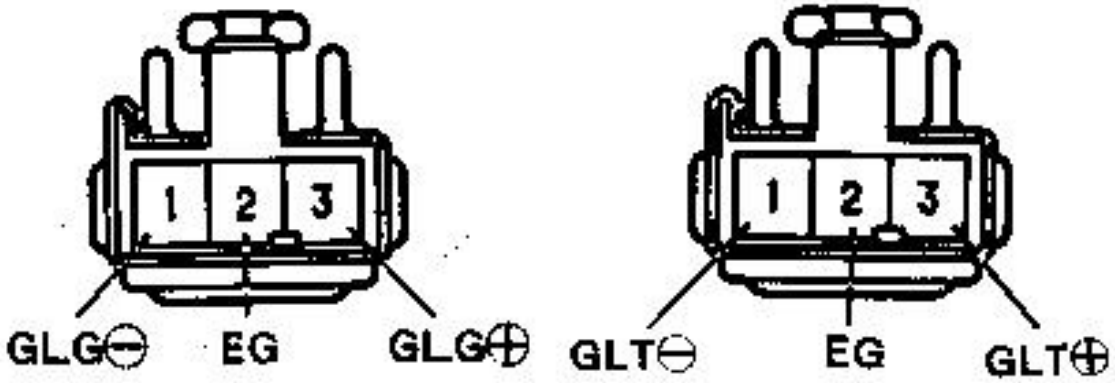


Connector A	Connector B	Connector C



Connector D

Lateral G Check Connectors, before and after



Connector A (White)	Connector B (Grey)

Connector	Pin No	Pin Code	Input/Output	Item Measured	Tester contacts + ⇔ -	Measurement Conditions	Standard Value	Location of Problem if value not in standard range
A	1	TC	In	Voltage	A1⇔C7	Ignition ON, and diagnosis connector or TDCL pins Tc-E1 shorted	1V or less	Diagnosis Connector
						Ignition ON, and diagnosis connector or TDCL pins Tc-E1 open	8 – 14V	TDCL
	2	ES -1	In	Continuity	A2⇔C7	Ordinary Conditions	Continuity	G Sensor shielding wire before and after
	3	TOIL	In	Voltage	A3⇔C7	Idling	0.5 – 4.5V	Oil temperature sensor
	4	PRL	In	Voltage	A3⇔ A25 Or A26	Idling	0.6 – 4.5V	Rear (LH) pressure sensor
	5	GLG	In	Voltage	A5⇔A24	Ignition ON	0.5 – 4.5V	Horizontal? G Sensor, before and after
	6	HFL	In	Voltage	A6⇔ A25 or A26	Ignition ON	0.5 – 4.5V	Front (LH) height control sensor
	7	HRL	In	Voltage	A7⇔ A25 or A26	Ignition ON	0.5 – 4.5V	Rear (LH) height control sensor

Connector	Pin No	Pin Code	Input/ Output	Item Measured	Tester contacts + ⇔ -	Measurement Conditions	Standard Value	Location of Problem if value not in standard range
A	8	SGFL	In	Voltage	A25 A8⇔ or A26	Ignition ON	0.5 – 4.5V	Front (LH) upper and lower G sensor
	9	SGRL	In	Voltage	A25 A9 ⇔ or A26	Ignition ON	0.5 – 4.5V	Rear (LH) upper and lower G sensor
	10	PACC	In	Voltage	A25 A10 ⇔ or A26	Idling	0.5 – 4.5V	Accumulator pressure sensor
	11	VG5	Out	Voltage	A11 ⇔ A24	Idling	4.7 – 5.3V	Computer
	12	VL5	Out	Voltage	A25 A12 ⇔ or A26	Idling	4.7 – 5.3V	Computer
	13	VR5	Out	Voltage	A25 A13 ⇔ or A26	Idling	4.7 – 5.3V	Computer
	14	TS	In	Voltage	A14 ⇔ C7	Ignition ON, and diagnosis connector or TDCL pins Ts – E1 shorted	1V or less	Diagnosis connector
						Ignition ON, and diagnosis connector or TDCL pins Ts – E1 Open	8 – 14V	TDCL connector

Connector	Pin No	Pin Code	Input/Output	Item Measured	Tester contacts + ⇔ -	Measurement Conditions	Standard Value	Location of Problem if value not in standard range
A	15	ES2	In	Continuity	A15 ⇔ C7	Ordinary Conditions	Continuity	Lateral (Transverse?) G sensor shielding wire
	16	TD	In	Voltage	A16 ⇔ C7	Ignition ON, and TDCL pins Td - E1 shorted	1v or less	TDCL Connector
						Ignition ON, and TDCL pins Td – E1 open	8 – 14v	
	17	PRR	In	Voltage	A17 ⇔ A26	Idling	0.5 – 4.5v	Rear (RH) Pressure Sensor
	18	GLT	In	Voltage	A18 ⇔ A24	Ignition ON	0.5 – 4.5v	Lateral G sensor, before and after
	19	HFR	In	Voltage	A19 ⇔ A25 or A26	Ignition ON	0.5 – 4.5v	Front (RH) height control sensor
	20	HRR	In	Voltage	A20 ⇔ A25 or A26	Ignition ON	0.5 – 4.5v	Rear (RH) height control sensor
	22	SGRR	In	Voltage	A22 ⇔ A25 or A26	Ignition ON	0.5 – 4.5v	Rear (RH) upper and lower G sensor

Connector	Pin No	Pin Code	Input/Output	Item Measured	Tester contacts + ⇔ -	Measurement Conditions	Standard Value	Location of Problem if value not in standard range
A	24	EG	In	Continuity	A24 ⇔ C7	Ordinary Conditions	Continuity	Computer
	25	EL			A25 ⇔ C7			
	26	ER			A26 ⇔ C7			
B	1	SS1	In	Voltage	B1 ⇔ C7	Ignition ON, and turning steering wheel slowly	Changes between 1v or less and 5v or more	Steering Sensor
	5	4WSF	In	Voltage	B5 ⇔ C7	Ignition ON	8 – 14v	4WS computer
	6			Voltage	B6 ⇔ C7	Ignition ON	8 – 14v	ABS computer
	7			Voltage	B7 ⇔ C7	Ignition ON	8 – 14v	Oil level sensor
	8			Voltage	B8 ⇔ C7	Ignition ON, and suspension control switch at NORM position	8 – 14v	Suspension control switch
	9			Voltage	B9 ⇔ C7	Ignition ON and turning steering wheel slowly	Changes between 1v or less and 5v or more	Steering Sensor
	10			Voltage	B10 ⇔ C7	Ignition ON, and travelling slowly	Changes between 1v or less and 5v or more	Speed Sensor

Connector	Pin No	Pin Code	Input/Output	Item Measured	Tester contacts + ⇔ -	Measurement Conditions	Standard Value	Location of Problem if value not in standard range
B	12	STP	In	Voltage	B12 ⇔ C7	Ignition ON, and brake switch ON	10 – 14v	Stop light switch
	14	AFFSW	In	Voltage	B14 ⇔ C7	Ignition ON, and suspension control switch ON	10 – 14v	Suspension Control Switch
	16	ICL	In	Voltage	B16 ⇔ C7	Idling	8v or more	IC regulator
C	1	+B	In	Voltage	C1 ⇔ C7	Ignition ON	10 – 14v	HPS fuse
	2	GLG +	In	Voltage	C2 ⇔ C7	Ignition ON, and Connector b GLG + to EG pin is OPEN	5v or more	Lateral G sensor before and after
						Ignition ON, and Connector b GLG + to EG pin is SHORTED	1v or less	
	3	GLT +	In	Voltage	C3 ⇔ C7	Ignition ON, and Connector a GLT+ to EG pin is open	5v or more	Lateral G sensor before and after
						Ignition ON, and Connector a GLT+ to EG pin is shorted	1v or less	

Connector	Pin No	Pin Code	Input/Output	Item Measured	Tester contacts + ⇔ -	Measurement Conditions	Standard Value	Location of Problem if value not in standard range
C	4	ES4	In	Continuity	C4⇔ C7	Ordinary Conditions	Continuity	Computer
	5	ES3			C5 ⇔ C7			
	7	GND	Out	Continuity	C7 ⇔ Body earth	Ordinary Conditions	Continuity	Computer Body Earth
	8	GLG	In	Voltage	C8 ⇔ C7	Ignition ON, and Connector a GLG – to EG pin open	5v or more	Lateral G sensor before and after
						Ignition ON, and Connector a GLG – to EG pin shorted	1v or less	
	9	GLG	In	Voltage	C9 ⇔ C7	Ignition ON, and Connector a GLT – to EG pin open	5v or more	Lateral G sensor before and after
						Ignition ON, and Connector a GLT – to EG pin shorted	1v or less	
	10	ES5	In	Continuity	C10 ⇔ C7	Ordinary conditions	Continuity	Computer
	12	PN	In	Voltage	C21 ⇔ C7	Ignition ON, and shift lever in P or N range	10 – 14v	Neutral start switch

Connector	Pin No	Pin Code	Input/Output	Item Measured	Tester contacts + ⇔ -	Measurement Conditions	Standard Value	Location of Problem if value not in standard range
D	1	+B	In	Voltage	D1 ⇔ C7	Ignition ON	10 – 14v	HPS fuse
	2	BAT	In	Voltage	D2 ⇔ C7	Ordinary Conditions	8-14v	ECU-B fuse
	3	HPSF	Out	Voltage	D3 ⇔ C7	Ignition ON	9 – 14v	Computer
	4	ACTV HIGH	Out	Voltage	D4 ⇔ C7	Idling, and suspension control switch on HIGH	10 – 14v	Combination meter
	5	ACTV SUS	Out	Voltage	D5 ⇔ C7	Idling	1v or less	Combination meter
	6	ACTV OFF	Out	Voltage	D6 ⇔ C7	Ignition ON, and suspension control switch OFF	1v or less	Combination meter
	7	SFL+	Out	Voltage	D7 ⇔ C7	In idling stage, put shift lever into position other than P or the N range and/to achieve controlled stage, put shift lever in P or N range	0.36 – 7.7v	The various absorber control solenoid valves
	8	SFR+			D8 ⇔ C7			
	9	SRL+			D9 ⇔ C7			
	10	SRR+			D10 ⇔ C7			
	11	SBYP+	Out	Voltage	D11 ⇔ C7	In idling stage, put shift lever into position other than P or the N range and/to achieve controlled stage, put shift lever in P or N range	0.36 – 7.7v	Suspension control solenoid valve
Connector	**Pin No**	**Pin Code**	**Input/Output**	**Item Measured**	**Tester contacts**	**Measurement Conditions**	**Standard Value**	**Location of Problem if value not in standard range**

					+ ⇔ -			
D	12	GND	Out	Continuity	D12 ⇔ Body Earth	Ordinary Conditions	Continuity	- Computer - Body earth
	13	IG	In	Voltage	D13 ⇔ C7	Ignition ON	10 – 14v	ECU-IG Fuse
	18	TEM	In	Voltage	D18 ⇔ C7	Ignition ON	1v or less	Diagnosis connector
	19	CRY	Out	Voltage	D19 ⇔ C7	Ignition ON, and suspension fluid at 70C or more	10 – 14v	- Oil temperature sensor - Computer
						Ignition ON, and suspension fluid at 60C or less	1v or less	
	20	RLY	Out	Voltage	D20 ⇔ C7	Ignition ON	10 – 14v	Computer
	21	SFL	Out	Voltage	D21 ⇔ Body earth	Ordinary Conditions	0 – 0.5v	- Computer - Body earth
	22	SFR			D22 ⇔ Body earth			
	23	SRL			D23 ⇔ Body earth			
	24	SRR			D24 ⇔ Body earth			
	25	SBYP			D25 ⇔ Body earth			