

# Vehicle Diagnostic Report

2ZR-FXE  
124709 mile

Parvaiz Iqbal  
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Bradford  
BD7 3PL

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## Diagnostic Trouble Code Report Hybrid Control(1 of 1)

PERMANENT: NO

Enhanced		DTC Status				Freeze Frame Data	
Code	Description	Confirmed	Pending	TestFailed	Summary	Confirmed	Pending
U014087	Lost Communication with Body Control Module Missing Message	X	X		Icon A	Y	N

## Freeze Frame Data Report U014087(Confirmed FFD Short)(1 of 6)

Parameter						Unit
	-1.146(s)	-0.638(s)	-0.135(s)	0(s)	+0.365(s)	
Vehicle Speed	1	1	1	1	2	MPH
Target Engine Power	0	0	0	0	0	W
Execute Engine Power	0	0	0	0	0	W
Target Engine Revolution	0	0	0	0	0	rpm
Engine Speed	0.00	0.00	0.00	0.00	0.00	rpm
Calculate Load	0.00	0.00	0.00	0.00	0.00	%
Coolant Temperature	54	54	54	54	54	C
Starter Switch Signal	OFF	OFF	OFF	OFF	OFF	
Engine Idling Request	OFF	OFF	OFF	OFF	OFF	
Engine Start Request (A/C)	OFF	OFF	OFF	OFF	OFF	
Engine Start Request (Engine Warm-up)	OFF	OFF	OFF	OFF	OFF	
Engine Start Request (Hybrid/EV Battery Charging)	OFF	OFF	OFF	OFF	OFF	
Engine Mode	Stop	Stop	Stop	Stop	Stop	
Engine Run Time	1081	1082	1082	1083	1083	sec
Engine Stop Request	ON	ON	ON	ON	ON	
Engine Stop F/C Status	ON	ON	ON	ON	ON	
Lack of Fuel	OFF	OFF	OFF	OFF	OFF	
Accelerator Position	0.0	0.0	0.0	0.0	0.0	%
Accelerator Pedal Status	OFF	OFF	OFF	OFF	OFF	
Accelerator Position Sensor No.1 Voltage %	15.68	15.68	15.68	15.68	15.68	%
Accelerator Position Sensor No.2 Voltage %	31.76	31.76	31.76	31.76	31.76	%
Throttle Position Sensor No.1 Voltage %	17.64	17.64	17.64	17.64	17.64	%
Master Cylinder Control Torque	0.00	0.00	0.00	0.00	0.00	Nm
Brake Cancel Switch	OFF	OFF	OFF	OFF	OFF	
Shift Position	D	D	D	D	D	
Shift Position (Meter)	D	D	D	D	D	
Shift Switch Status (N,P Position)	OFF	OFF	OFF	OFF	OFF	
P Position Switch Terminal Voltage	2.29	2.29	2.29	2.29	2.29	V
Shift Sensor Voltage (VSI1)	4.08	4.08	4.08	4.08	4.08	V
Shift Sensor Voltage (VSI2)	3.10	3.10	3.10	3.10	3.10	V
Shift Sensor Voltage (VSI3)	2.19	2.19	2.18	2.19	2.19	V
Shift Sensor Voltage (VSI4)	1.21	1.20	1.21	1.21	1.21	V
Transaxle Oil Temperature	30	30	30	30	30	C
Transaxle Oil Temperature Sensor Voltage	3.80	3.79	3.80	3.80	3.80	V

**Freeze Frame Data Report**  
U014087(Confirmed FFD Short)(2 of 6)

Parameter						Unit
	-1.146(s)	-0.638(s)	-0.135(s)	0(s)	+0.365(s)	
FR Wheel Speed	1.37	1.60	1.81	1.80	1.93	MPH
FL Wheel Speed	1.37	1.57	1.82	1.83	1.93	MPH
RR Wheel Speed	1.37	1.58	1.61	1.80	1.98	MPH
RL Wheel Speed	1.35	1.57	1.81	1.76	1.99	MPH
Atmospheric Pressure	14	14	14	14	14	psi(abs)
Intake Manifold Absolute Pressure	14.38	14.37	14.38	14.38	14.37	psi
Ambient Temperature	16	16	16	16	16	C
Intake Air Temperature	29	29	30	30	30	C
BATT Voltage	12.56	12.54	12.57	12.57	12.56	V
Smoothed Value of BATT Voltage	12.548	12.548	12.553	12.553	12.548	V
Warmup Cycle Cleared DTC	1	1	1	1	1	
Distance from DTC Cleared	1	1	1	1	1	mile
Time after DTC Cleared	40	40	40	40	40	min
Running Time from MIL ON	0	0	0	0	0	min
Total Distance Traveled	124701	124701	124701	124701	124701	
Total Distance Traveled - Unit	-No Data-	-No Data-	-No Data-	-No Data-	-No Data-	
MIL ON Run Distance	0	0	0	0	0	mile
IG Switch (CAN)	ON	ON	ON	ON	ON	
IG Switch (LIN)	ON	ON	ON	ON	ON	
IGB Signal Status	ON	ON	ON	ON	ON	
IG2 Signal Status	ON	ON	ON	ON	ON	
ACC Signal	ON	ON	ON	ON	ON	
Ready Signal	ON	ON	ON	ON	ON	
HV/EV Activate Condition	Normal	Normal	Normal	Normal	Normal	
MG Activate Condition	ON	ON	ON	ON	ON	
DSS Control Status	Not Control	Not Control	Not Control	Not Control	Not Control	
Generate Torque (Request from DSS)	72.12	67.37	61.25	61.25	59.62	Nm
Primary Driving Force Adjustment Result	Accelerator	Accelerator	Accelerator	Accelerator	Accelerator	
SMRG Status	ON	ON	ON	ON	ON	
SMRG Control Status	ON	ON	ON	ON	ON	
SMRB Status	ON	ON	ON	ON	ON	
SMRB Control Status	ON	ON	ON	ON	ON	
SMRP Status	OFF	OFF	OFF	OFF	OFF	
SMRP Control Status	OFF	OFF	OFF	OFF	OFF	
WIN Control Limit Power	-31.92	-31.92	-31.92	-31.92	-31.92	kW
WOUT Control Limit Power	20.86	20.86	20.86	20.86	20.86	kW
A/C Consumption Power	0.00	0.00	0.00	0.00	0.00	kW
Powertrain Drive Mode Switch	OFF	OFF	OFF	OFF	OFF	
EV Mode	OFF	OFF	OFF	OFF	OFF	
EV Mode Switch	OFF	OFF	OFF	OFF	OFF	
Inter Lock Switch	OFF	OFF	OFF	OFF	OFF	
Inter Lock Switch (MG)	OFF	OFF	OFF	OFF	OFF	
Stop Light Switch	ON	OFF	OFF	OFF	ON	
Back Up Light Relay	OFF	OFF	OFF	OFF	OFF	
VSC/TRC OFF Switch	OFF	OFF	OFF	OFF	OFF	
Airbag Status (Collision)	OFF	OFF	OFF	OFF	OFF	
Airbag Status (Collision) (CAN)	Normal	Normal	Normal	Normal	Normal	
Airbag Status (Safing)	OFF	OFF	OFF	OFF	OFF	
Airbag Status (Normal)	ON	ON	ON	ON	ON	
Crank Position	18	18	18	18	18	deg (CA)
TC Terminal	OFF	OFF	OFF	OFF	OFF	
Generator Revolution	-143	-165	-191	-189	-203	rpm
Target Generator Torque	0.00	0.00	0.00	0.00	0.00	Nm
Generator Torque	0.00	-0.13	0.00	0.00	0.00	Nm
Motor Revolution	212	242	275	278	298	rpm
Target Motor Torque	20.50	19.25	18.00	17.75	17.25	Nm
Motor Torque	19.00	18.12	16.62	16.87	15.87	Nm
Request Motor Regenerative Brake Torque	0.00	0.00	0.00	0.00	0.00	Nm
Motor Regenerate Brake Execution Torque	0.00	0.00	0.00	0.00	0.00	Nm
Generator Temperature	31	31	31	31	31	C
Generator Temperature Sensor Voltage	3.93	3.93	3.93	3.93	3.93	V
Generator Temperature just after IG ON	26	26	26	26	26	C

**Freeze Frame Data Report**  
U014087(Confirmed FFD Short)(3 of 6)

Parameter						Unit
	-1.146(s)	-0.638(s)	-0.135(s)	0(s)	+0.365(s)	
Generator Maximum Temperature	32	32	32	32	32	C
Motor Temperature	37	37	37	37	37	C
Motor Temperature Sensor Voltage	3.71	3.71	3.71	3.71	3.71	V
Motor Temperature just after IG ON	24	24	24	24	24	C
Motor Maximum Temperature	37	37	37	37	37	C
Generator Inverter Calculated Temperature	31	31	31	31	31	C
Generator Inverter Calculated Temperature just after IG ON	28	28	28	28	28	C
Generator Inverter Calculated Maximum Temperature	37	37	37	37	37	C
Motor Inverter Temperature	33	33	33	33	33	C
Motor Inverter Temperature just after IG ON	25	25	25	25	25	C
Motor Inverter Maximum Temperature	45	45	45	45	45	C
Boosting Converter Temperature (Upper)	34	34	33	33	33	C
Boosting Converter Temperature (Lower)	35	35	34	34	33	C
Boosting Converter Temperature just after IG ON	28	28	28	28	28	C
Boosting Converter Maximum Temperature	55	55	55	55	55	C
Generator Inverter Operation Request	Output Torque	Output Torque	Output Torque	Output Torque	Output Torque	
Generator Inverter Fail	OFF	OFF	OFF	OFF	OFF	
Generator Inverter Shutdown Status	Awake	Awake	Awake	Awake	Awake	
Motor Inverter Operation Request	Output Torque	Output Torque	Output Torque	Output Torque	Output Torque	
Motor Inverter Fail	OFF	OFF	OFF	OFF	OFF	
Motor Inverter Shutdown Status	Awake	Awake	Awake	Awake	Awake	
Boosting Converter Operation Request	Normal	Normal	Normal	Normal	Normal	
Boosting Converter Fail	OFF	OFF	OFF	OFF	OFF	
Boosting Converter Shutdown Status	Awake	Awake	Awake	Awake	Awake	
Generator Carrier Frequency	3.75kHz	3.75kHz	3.75kHz	3.75kHz	3.75kHz	
Generator Control Mode	Sine Wave	Sine Wave	Sine Wave	Sine Wave	Sine Wave	
Motor Carrier Frequency	2.5kHz	2.5kHz	2.5kHz	2.5kHz	2.5kHz	
Motor Control Mode	Sine Wave	Sine Wave	Sine Wave	Sine Wave	Sine Wave	
Boosting Converter Carrier Frequency	9.55	9.55	9.55	9.55	9.55	
VL-Voltage before Boosting	229.5	229.5	229.5	229.5	229.5	V
VH-Voltage after Boosting	349.0	308.0	230.5	228.5	229.0	V
Boost Ratio	33.7	25.8	0.0	0.0	0.0	%
V Phase Generator Current	0.0	0.0	-0.2	0.0	-0.3	A
W Phase Generator Current	-0.2	0.1	0.1	0.0	-0.2	A
V Phase Motor Current	-15.7	13.0	27.6	-16.3	-11.0	A
W Phase Motor Current	34.0	19.4	-24.9	30.6	28.8	A
Inverter Coolant Water Temperature	31	31	31	31	31	C
Inverter Water Pump Duty Ratio	50.0	50.0	50.0	50.0	50.0	%
Inverter Water Pump Revolution	3371	3371	3371	3371	3371	rpm
Overvoltage Input to Inverter	OFF	OFF	OFF	OFF	OFF	
Inverter Emergency Shutdown (Main CPU)	OFF	OFF	OFF	OFF	OFF	
Inverter Emergency Shutdown (Sub CPU)	OFF	OFF	OFF	OFF	OFF	
Overvoltage Input to Boosting Converter	OFF	OFF	OFF	OFF	OFF	
Hybrid/EV Battery SOC	49.41	49.41	49.41	49.41	49.41	%
Delta SOC	0.0	0.0	0.0	0.0	0.0	%
Hybrid/EV Battery SOC of Immediately after IG ON	49.0	49.0	49.0	49.0	49.0	%

**Freeze Frame Data Report**  
U014087(Confirmed FFD Short)(4 of 6)

Parameter						Unit
	-1.146(s)	-0.638(s)	-0.135(s)	0(s)	+0.365(s)	
Hybrid/EV Battery Maximum SOC	49.5	49.5	49.5	49.5	49.5	%
Hybrid/EV Battery Minimum SOC	42.5	42.5	42.5	42.5	42.5	%
Hybrid/EV Battery Voltage	232.00	232.00	232.00	232.00	232.00	V
Hybrid/EV Battery Current	4.4	3.9	3.9	3.9	3.9	A
Hybrid/EV Battery Current for Hybrid/EV Battery Control	4.09	4.03	3.75	3.64	3.91	A
Hybrid/EV Battery Current for Driving Control	3.90	3.90	3.90	3.40	3.90	A
Hybrid/EV Battery Control Mode	Driving Control Mode	Driving Control Mode	Driving Control Mode	Driving Control Mode	Driving Control Mode	
Hybrid/EV Battery Block 1 Voltage	16.55	16.53	16.55	16.53	16.53	V
Hybrid/EV Battery Block 2 Voltage	16.55	16.53	16.53	16.53	16.53	V
Hybrid/EV Battery Block 3 Voltage	33.27	33.17	33.17	33.17	33.17	V
Hybrid/EV Battery Block 4 Voltage	33.12	33.07	33.07	33.03	33.03	V
Hybrid/EV Battery Block 5 Voltage	33.17	33.17	33.17	33.17	33.17	V
Hybrid/EV Battery Block 6 Voltage	33.12	33.12	33.07	33.03	33.03	V
Hybrid/EV Battery Block 7 Voltage	33.17	33.17	33.17	33.17	33.17	V
Hybrid/EV Battery Block 8 Voltage	16.53	16.55	16.53	16.53	16.53	V
Hybrid/EV Battery Block 9 Voltage	16.55	16.58	16.55	16.53	16.53	V
Hybrid/EV Battery Temperature 1	24.9	24.9	24.9	24.9	24.9	C
Hybrid/EV Battery Temperature 2	27.3	27.3	27.3	27.3	27.3	C
Hybrid/EV Battery Temperature 3	24.6	24.6	24.6	24.6	24.6	C
Hybrid/EV Battery Cooling Fan 1 Drive Request	0.0	0.0	0.0	0.0	0.0	%
Hybrid/EV Battery Cooling Fan 1 Drive Status	0	0	0	0	0	
Hybrid/EV Battery Cooling Fan 1 Frequency	0.0	0.0	0.0	0.0	0.0	
Hybrid/EV Battery Cooling Fan Intake Air Temperature 1	21.4	21.4	21.4	21.4	21.4	C
Hybrid/EV Battery Cooling Fan Low Speed Request	OFF	OFF	OFF	OFF	OFF	
Hybrid/EV Battery Sensor Module Power Supply Voltage	12.50	12.51	12.50	12.50	12.50	V
Hybrid/EV Battery Current Sensor Power Supply Voltage	5.0	5.0	5.0	5.0	5.0	V
Short Wave Highest Value Level	Not Judge	Not Judge	Not Judge	Not Judge	Not Judge	
Insulation Resistance Division Check Completion using MG Inv	Not Complete	Not Complete	Not Complete	Not Complete	Not Complete	
Insulation Resistance Division Check Completion using A/C Inv	Not Complete	Not Complete	Not Complete	Not Complete	Not Complete	
Insulation Resistance Division Check Completion using SMR	Not Complete	Not Complete	Not Complete	Not Complete	Not Complete	
Short Wave Highest Value Availability just after MG Inv On/Off	Yes	Yes	Yes	Yes	Yes	
Short Wave Highest Value Availability just after A/C Inv On/Off	Yes	Yes	Yes	Yes	Yes	
Short Wave Highest Value Availability just after SMR On/Off	Yes	Yes	Yes	Yes	Yes	
Immobiliser Communication	ON	ON	ON	ON	ON	
Permit Start by Immobiliser	OK	OK	OK	OK	OK	
Auxiliary Battery Voltage	12.57	12.58	12.57	12.57	12.57	V

Parameter						Unit
	-1.146(s)	-0.638(s)	-0.135(s)	0(s)	+0.365(s)	
Auxiliary Battery Current	-1.84	-1.87	-1.93	-1.90	-2.02	A
Smoothed Value of Auxiliary Battery Temperature	19.9	19.9	19.9	19.9	19.9	C
P Control Request Status	Unlock(Normal)	Unlock(Normal)	Unlock(Normal)	Unlock(Normal)	-No Data-	
P Control Status	Unlock Position(Normal)	Unlock Position(Normal)	Unlock Position(Normal)	Unlock Position(Normal)	Unlock Position(Normal)	
Target P Position	Unlock	Unlock	Unlock	Unlock	Unlock	
P Position Status	Unlock	Unlock	Unlock	Unlock	Unlock	
P Position Status before Last	Unlock	Unlock	Unlock	Unlock	Unlock	
Parking Lock Motor Position	346	346	346	346	346	
Parking Lock Motor Revolution	0	0	0	0	0	rpm
Parking Lock Motor Rotation Direction	Unlock	Unlock	Unlock	Unlock	Unlock	
Parking Lock Motor Control Mode	P Position Change	P Position Change	P Position Change	P Position Change	P Position Change	
Parking Lock Motor Drive Mode	No Control	No Control	No Control	No Control	No Control	
Parking Lock Motor Current Sensor Voltage	0.02	0.02	0.01	0.02	0.02	V
Fail Safe Status (Shift Sensor)	No Fail Safe	No Fail Safe	No Fail Safe	No Fail Safe	No Fail Safe	
Fail Safe Status (Parking Lock Motor)	No Fail Safe	No Fail Safe	No Fail Safe	No Fail Safe	No Fail Safe	
Fail Safe History (Parking Lock Motor Inoperative)	OFF	OFF	OFF	OFF	OFF	
W Phase Parking Lock Motor Current-Carrying Status	OFF	OFF	OFF	OFF	OFF	
V Phase Parking Lock Motor Current-Carrying Status	OFF	OFF	OFF	OFF	OFF	
U Phase Parking Lock Motor Current-Carrying Status	OFF	OFF	OFF	OFF	OFF	
W Phase Parking Lock Motor Terminal Voltage	1.59	1.59	1.59	1.59	1.59	V
V Phase Parking Lock Motor Terminal Voltage	1.60	1.60	1.60	1.60	1.60	V
U Phase Parking Lock Motor Terminal Voltage	1.60	1.60	1.60	1.60	1.60	V
Relay Cut Signal of Parking Lock Motor Power for Hybrid/EV Control System	OFF	OFF	OFF	OFF	OFF	
Parking Lock Motor Relay Status for Transmission Control System	ON	ON	ON	ON	ON	
Abnormality Informing Status	OFF	OFF	OFF	OFF	OFF	
Backup Status of Parking Lock Motor Control (Initial Drive)	OFF	OFF	OFF	OFF	OFF	
Backup Status of Parking Lock Motor Control (P Position Change)	OFF	OFF	OFF	OFF	OFF	
Parking Lock Motor Circuit History	OFF	OFF	OFF	OFF	OFF	
P Position Change Delayed History	OFF	OFF	OFF	OFF	OFF	
P Position Switch Indicator	OFF	OFF	OFF	OFF	OFF	
P Position Switch Indicator Dimming Request	Non-dimming	Non-dimming	Non-dimming	Non-dimming	Non-dimming	
Meter Display Request (P Position Switch ON when Running)	OFF	OFF	OFF	OFF	OFF	
Meter Display Request (Shift N Operation when Running)	OFF	OFF	OFF	OFF	OFF	
Meter Display Request (Shift Operation Rejection)	0	0	0	0	0	
Identifying Signal of Shift R/D Operation during Ready OFF	OFF	OFF	OFF	OFF	OFF	
BATT Voltage for Transmission Control System	12.53	12.55	12.57	12.55	12.57	V
IG Voltage for Transmission Control System	12.51	12.51	12.53	12.51	12.51	V
Lock Position Learning Value	-24	-24	-24	-24	-24	

Parameter						Unit
	-1.146(s)	-0.638(s)	-0.135(s)	0(s)	+0.365(s)	
Unlock Position Learning Value	358	358	358	358	358	
Complete of Learn Unlock Position	OK	OK	OK	OK	OK	
Complete of Detect Unlock Position	NG	NG	NG	NG	NG	
Complete of Learn Lock Position	OK	OK	OK	OK	OK	
Complete of Detect Lock Position	OK	OK	OK	OK	OK	
Complete of Initially Drive Parking Lock Control	OK	OK	OK	OK	OK	
Effective Status of Braking Torque	Available	Available	Available	Available	Available	
P Position Automatic Change Request	OFF	OFF	OFF	OFF	OFF	
Power Feeding Electrical Using Status	Charge Sustaining Mode/Not PHV	Charge Sustaining Mode/Not PHV	Charge Sustaining Mode/Not PHV	Charge Sustaining Mode/Not PHV	Charge Sustaining Mode/Not PHV	
ASL Switch	OFF	OFF	OFF	OFF	OFF	
ASL Vehicle Speed	1	1	1	1	1	MPH
ASL Memory Vehicle Speed	0	0	0	0	0	MPH
ASL Request Limit Driving Force	9.92	9.92	9.92	9.92	9.92	
ASL Request Gear Position	None	None	None	None	None	
TRC/VSC OFF Indicator	OFF	OFF	OFF	OFF	OFF	
ASL Cancel History (Lost Communication with Brake System)	OFF	OFF	OFF	OFF	OFF	
ASL Cancel History (Speed Sensor Malfunction)	OFF	OFF	OFF	OFF	OFF	
Kickdown Switch	OFF	OFF	OFF	OFF	OFF	
ASL Limiting Driving Force	Inactive	Inactive	Inactive	Inactive	Inactive	
ASL Ready	OFF	OFF	OFF	OFF	OFF	

**PRIUS ZVW50**  
**ZZR-FXE**

124709 mile

Input VIN

Trouble Codes

Data List

Active Test

Monitor

Utility

Dual Data List

**Freeze Frame Data**  
**U014087 Lost Communication with Body Control Module Missing Message**

Confirmed FFD Short | Pending FFD

Parameter	Unit	-1.146(s)
ASL Switch		OFF
ASL Vehicle Speed	MPH	1
ASL Memory Vehicle Speed	MPH	0
ASL Request Limit Driving Force		9.92
ASL Request Gear Position		None
TRC/VSC OFF Indicator		OFF
ASL Cancel History (Lost Communication with Brake System)		OFF
ASL Cancel History (Speed Sensor Malfunction)		OFF
Kickdown Switch		OFF
ASL Limiting Driving Force		Inactive