05IHF–01

FAIL–SAFE CHART

1. FAIL–SAFE CHART

DTC No.	Detection Item	INF Code	Driving Condition
B2799	Immobilizer malfunction	539	Impossible to drive
B2799	Immobilizer malfunction	540	Impossible to drive
B2799	Immobilizer malfunction	541	Impossible to drive
B2799	Immobilizer malfunction	542	Impossible to drive
B2799	Immobilizer malfunction	543	Impossible to drive
B2799	Immobilizer malfunction	544	Impossible to drive
P0336	Crankshaft Position Sensor ”A” Circuit Range/Performance	137	Normal driving
P0338	Crankshaft Position Sensor ”A” Circuit High Input	600	Normal driving
P0340	Camshaft Position Sensor ”A” Circuit	532	Normal driving
P0343	Camshaft Position Sensor ”A” Circuit High Input	601	Normal driving
P0500	Vehicle Speed Sensor ”A”	352	Cruise control driving impossible
P0560	System Voltage	117	Normal driving
P0571	Brake Switch ”A” Circuit	115	Cruise control driving impossible
P0607	Control Module Performance	116	Cruise control driving impossible
P0705	Transmission Range Sensor Circuit	571	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0705	Transmission Range Sensor Circuit	572	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0705	Transmission Range Sensor Circuit	573	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0705	Transmission Range Sensor Circuit	574	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0705	Transmission Range Sensor Circuit	575	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0705	Transmission Range Sensor Circuit	576	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0705	Transmission Range Sensor Circuit	577	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0705	Transmission Range Sensor Circuit	578	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0705	Transmission Range Sensor Circuit	595	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0705	Transmission Range Sensor Circuit	596	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0851	Park/Neutral Switch Input Circuit Low	579	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0852	Park/Neutral Switch Input Circuit High	580	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P0A08	DC/DC Converter Status Circuit	264	Normal driving
P0A09	DC/DC Converter Status Circuit Low Input	265	Normal driving
P0A09	DC/DC Converter Status Circuit Low Input	591	Normal driving
P0A0F	Engine Failed to Start	204	Limited driving
P0A0F	Engine Failed to Start	205	Limited driving
P0A0F	Engine Failed to Start	238	Limited driving
P0A0F	Engine Failed to Start	533	Limited driving
P0A0F	Engine Failed to Start	534	Limited driving
P0A10	DC/DC Converter Status Circuit High Input	263	Normal driving
P0A10	DC/DC Converter Status Circuit High Input	592	Normal driving
P0A1D	Hybrid Powertrain Control Module	134	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	135	Impossible to drive

DTC No.	Detection Item	INF Code	Driving Condition
P0A1D	Hybrid Powertrain Control Module	139	Normal driving
P0A1D	Hybrid Powertrain Control Module	140	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	141	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	142	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	143	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	144	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	145	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	148	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	149	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	150	Limited driving
P0A1D	Hybrid Powertrain Control Module	151	Limited driving
P0A1D	Hybrid Powertrain Control Module	152	Limited driving
P0A1D	Hybrid Powertrain Control Module	155	Limited driving
P0A1D	Hybrid Powertrain Control Module	156	Limited driving
P0A1D	Hybrid Powertrain Control Module	158	Limited driving
P0A1D	Hybrid Powertrain Control Module	159	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	160	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	163	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	164	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	165	Limited driving
P0A1D	Hybrid Powertrain Control Module	166	Normal driving
P0A1D	Hybrid Powertrain Control Module	167	Limited driving
P0A1D	Hybrid Powertrain Control Module	168	Limited driving
P0A1D	Hybrid Powertrain Control Module	177	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	178	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	180	Limited driving
P0A1D	Hybrid Powertrain Control Module	181	Limited driving
P0A1D	Hybrid Powertrain Control Module	182	Limited driving
P0A1D	Hybrid Powertrain Control Module	183	Limited driving
P0A1D	Hybrid Powertrain Control Module	184	Limited driving
P0A1D	Hybrid Powertrain Control Module	185	Limited driving
P0A1D	Hybrid Powertrain Control Module	186	Limited driving
P0A1D	Hybrid Powertrain Control Module	187	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	188	Limited driving
P0A1D	Hybrid Powertrain Control Module	189	Limited driving
P0A1D	Hybrid Powertrain Control Module	192	Limited driving
P0A1D	Hybrid Powertrain Control Module	193	Limited driving
P0A1D	Hybrid Powertrain Control Module	195	Limited driving
P0A1D	Hybrid Powertrain Control Module	196	Limited driving
P0A1D	Hybrid Powertrain Control Module	197	Limited driving
P0A1D	Hybrid Powertrain Control Module	198	Normal driving
P0A1D	Hybrid Powertrain Control Module	199	Limited driving
P0A1D	Hybrid Powertrain Control Module	200	Limited driving
P0A1D	Hybrid Powertrain Control Module	390	Limited driving
P0A1D	Hybrid Powertrain Control Module	392	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	393	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	511	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	512	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	564	Limited driving
P0A1D	Hybrid Powertrain Control Module	565	Limited driving
P0A1D	Hybrid Powertrain Control Module	567	Impossible to drive

DTC No.	Detection Item	INF Code	Driving Condition
P0A1D	Hybrid Powertrain Control Module	568	Limited driving
P0A1D	Hybrid Powertrain Control Module	569	Limited driving
P0A1D	Hybrid Powertrain Control Module	570	Impossible to drive
P0A1D	Hybrid Powertrain Control Module	615	Limited driving
P0A1F	Battery Energy Control Module	123	Limited driving
P0A1F	Battery Energy Control Module	129	Limited driving
P0A1F	Battery Energy Control Module	593	Normal driving
P0A2B	Drive Motor "A" Temperature Sensor Circuit Range/ Performance	248	Normal driving
P0A2B	Drive Motor "A" Temperature Sensor Circuit Range/ Performance	250	Normal driving
P0A2C	Drive Motor "A" Temperature Sensor Circuit Low	247	Normal driving
P0A2D	Drive Motor "A" Temperature Sensor Circuit High	249	Normal driving
P0A37	Generator Temperature Sensor Circuit Range/Performance	258	Normal driving
P0A37	Generator Temperature Sensor Circuit Range/Performance	260	Normal driving
P0A38	Generator Temperature Sensor Circuit Low	257	Normal driving
P0A39	Generator Temperature Sensor Circuit High	259	Normal driving
P0A3F	Drive Motor "A" Position Sensor Circuit	243	Limited driving
P0A40	Drive Motor "A" Position Sensor Circuit Range/Performance	500	Limited driving
P0A41	Drive Motor "A" Position Sensor Circuit Low	245	Limited driving
P0A4B	Generator Position Sensor Circuit	253	Limited driving
P0A4C	Generator Position Sensor Circuit Range/Performance	513	Limited driving
P0A4D	Generator Position Sensor Circuit Low	255	Limited driving
P0A51	Drive Motor "A" Current Sensor Circuit	174	Limited driving
P0A60	Drive Motor "A" Phase V Current	288	Limited driving
P0A60	Drive Motor "A" Phase V Current	289	Limited driving
P0A60	Drive Motor "A" Phase V Current	290	Limited driving
P0A60	Drive Motor "A" Phase V Current	292	Limited driving
P0A60	Drive Motor "A" Phase V Current	294	Limited driving
P0A60	Drive Motor "A" Phase V Current	501	Limited driving
P0A63	Drive Motor "A" Phase W Current	296	Limited driving
P0A63	Drive Motor "A" Phase W Current	297	Limited driving
P0A63	Drive Motor "A" Phase W Current	298	Limited driving
P0A63	Drive Motor "A" Phase W Current	300	Limited driving
P0A63	Drive Motor "A" Phase W Current	302	Limited driving
P0A63	Drive Motor "A" Phase W Current	502	Limited driving
P0A72	Generator Phase V Current	326	Limited driving
P0A72	Generator Phase V Current	327	Limited driving
P0A72	Generator Phase V Current	328	Limited driving
P0A72	Generator Phase V Current	330	Limited driving
P0A72	Generator Phase V Current	333	Limited driving
P0A72	Generator Phase V Current	515	Limited driving
P0A75	Generator Phase W Current	334	Limited driving
P0A75	Generator Phase W Current	335	Limited driving
P0A75	Generator Phase W Current	336	Limited driving
P0A75	Generator Phase W Current	338	Limited driving
P0A75	Generator Phase W Current	341	Limited driving
P0A75	Generator Phase W Current	516	Limited driving

DTC No.	Detection Item	INF Code	Driving Condition
P0A78	Drive Motor ”A” Inverter Performance	266	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	267	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	272	Normal driving
P0A78	Drive Motor ”A” Inverter Performance	278	Normal driving
P0A78	Drive Motor ”A” Inverter Performance	279	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	280	Normal driving
P0A78	Drive Motor ”A” Inverter Performance	282	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	283	Normal driving
P0A78	Drive Motor ”A” Inverter Performance	284	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	285	Normal driving
P0A78	Drive Motor ”A” Inverter Performance	286	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	287	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	304	Normal driving
P0A78	Drive Motor ”A” Inverter Performance	305	Normal driving
P0A78	Drive Motor ”A” Inverter Performance	306	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	308	Impossible to drive
P0A78	Drive Motor ”A” Inverter Performance	503	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	504	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	505	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	506	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	507	Normal driving
P0A78	Drive Motor ”A” Inverter Performance	508	Normal driving
P0A78	Drive Motor ”A” Inverter Performance	510	Normal driving
P0A78	Drive Motor ”A” Inverter Performance	523	Limited driving
P0A78	Drive Motor ”A” Inverter Performance	586	Limited driving
P0A7A	Generator Inverter Performance	309	Limited driving
P0A7A	Generator Inverter Performance	321	Normal driving
P0A7A	Generator Inverter Performance	322	Limited driving
P0A7A	Generator Inverter Performance	323	Normal driving
P0A7A	Generator Inverter Performance	324	Limited driving
P0A7A	Generator Inverter Performance	325	Limited driving
P0A7A	Generator Inverter Performance	342	Limited driving
P0A7A	Generator Inverter Performance	343	Limited driving
P0A7A	Generator Inverter Performance	344	Limited driving
P0A7A	Generator Inverter Performance	517	Limited driving
P0A7A	Generator Inverter Performance	518	Limited driving
P0A7A	Generator Inverter Performance	519	Limited driving
P0A7A	Generator Inverter Performance	520	Limited driving
P0A7A	Generator Inverter Performance	522	Normal driving
P0A90	Drive Motor ”A” Performance	239	Limited driving
P0A90	Drive Motor ”A” Performance	240	Limited driving
P0A90	Drive Motor ”A” Performance	241	Limited driving
P0A90	Drive Motor ”A” Performance	242	Limited driving
P0A90	Drive Motor ”A” Performance	251	Limited driving
P0A90	Drive Motor ”A” Performance	509	Limited driving
P0A90	Drive Motor ”A” Performance	602	Limited driving
P0A90	Drive Motor ”A” Performance	604	Limited driving
P0A90	Drive Motor ”A” Performance	605	Limited driving
P0A92	Hybrid Generator Performance	261	Limited driving
P0A92	Hybrid Generator Performance	521	Limited driving
P0A92	Hybrid Generator Performance	606	Limited driving

DTC No.	Detection Item	INF Code	Driving Condition
P0A92	Hybrid Generator Performance	607	Limited driving
P0A93	Inverter Cooling System Performance	346	Normal driving
P0A93	Inverter Cooling System Performance	347	Normal driving
P0A94	DC/DC Converter Performance	442	Limited driving
P0A94	DC/DC Converter Performance	545	Limited driving
P0A94	DC/DC Converter Performance	546	Limited driving
P0A94	DC/DC Converter Performance	547	Limited driving
P0A94	DC/DC Converter Performance	548	Limited driving
P0A94	DC/DC Converter Performance	549	Limited driving
P0A94	DC/DC Converter Performance	550	Limited driving
P0A94	DC/DC Converter Performance	551	Limited driving
P0A94	DC/DC Converter Performance	552	Limited driving
P0A94	DC/DC Converter Performance	553	Limited driving
P0A94	DC/DC Converter Performance	554	Limited driving
P0A94	DC/DC Converter Performance	555	Limited driving
P0A94	DC/DC Converter Performance	556	Limited driving
P0A94	DC/DC Converter Performance	557	Limited driving
P0A94	DC/DC Converter Performance	558	Normal driving
P0A94	DC/DC Converter Performance	559	Limited driving
P0A94	DC/DC Converter Performance	560	Normal driving
P0A94	DC/DC Converter Performance	561	Limited driving
P0A94	DC/DC Converter Performance	583	Normal driving
P0A94	DC/DC Converter Performance	584	Normal driving
P0A94	DC/DC Converter Performance	585	Normal driving
P0A94	DC/DC Converter Performance	587	Limited driving
P0A94	DC/DC Converter Performance	588	Limited driving
P0A94	DC/DC Converter Performance	589	Normal driving
P0A94	DC/DC Converter Performance	590	Normal driving
P0AA1	Hybrid Battery Positive Contactor Circuit Stuck Closed	224	Normal driving
P0AA1	Hybrid Battery Positive Contactor Circuit Stuck Closed	226	Impossible to drive
P0AA1	Hybrid Battery Positive Contactor Circuit Stuck Closed	231	Impossible to drive
P0AA1	Hybrid Battery Positive Contactor Circuit Stuck Closed	233	Impossible to drive
P0AA2	Hybrid Battery Positive Contactor Circuit Stuck Open	225	Normal driving
P0AA2	Hybrid Battery Positive Contactor Circuit Stuck Open	227	Impossible to drive
P0AA4	Hybrid Battery Negative Contactor Circuit Stuck Closed	228	Impossible to drive
P0AA4	Hybrid Battery Negative Contactor Circuit Stuck Closed	232	Limited driving
P0AA5	Hybrid Battery Negative Contactor Circuit Stuck Open	229	Impossible to drive
P2120	Throttle/Pedal Position Sensor/Switch ”D” Circuit	111	Limited driving
P2121	Throttle/Pedal Position Sensor/Switch ”D” Circuit Range/Performance	106	Limited driving
P2121	Throttle/Pedal Position Sensor/Switch ”D” Circuit Range/Performance	114	Limited driving
P2122	Throttle/Pedal Position Sensor/Switch ”D” Circuit Low Input	104	Limited driving

DTC No.	Detection Item	INF Code	Driving Condition
P2123	Throttle/Pedal Position Sensor/Switch ”D” Circuit High Input	105	Limited driving
P2125	Throttle/Pedal Position Sensor/Switch ”E” Circuit	112	Limited driving
P2126	Throttle/Pedal Position Sensor/Switch ”E” Circuit Range/Performance	109	Limited driving
P2127	Throttle/Pedal Position Sensor/Switch ”E” Circuit Low Input	107	Limited driving
P2128	Throttle/Pedal Position Sensor/Switch ”E” Circuit High Input	108	Limited driving
P2138	Throttle/Pedal Position Sensor/Switch ”D”/”E” Voltage Correlation	110	Limited driving
P3000	Battery Control System Malfunction	123	Limited driving
P3000	Battery Control System Malfunction	125	Limited driving
P3000	Battery Control System Malfunction	388	Limited driving
P3000	Battery Control System Malfunction	389	Limited driving
P3000	Battery Control System Malfunction	603	Limited driving
P3004	High Voltage Power Resource Malfunction	131	Impossible to drive
P3004	High Voltage Power Resource Malfunction	132	Normal driving
P3004	High Voltage Power Resource Malfunction	133	Limited driving
P3009	High Voltage Power Short Circuit	526	Normal driving
P3009	High Voltage Power Short Circuit	611	Normal driving
P3009	High Voltage Power Short Circuit	612	Normal driving
P3009	High Voltage Power Short Circuit	613	Normal driving
P3009	High Voltage Power Short Circuit	614	Normal driving
P3102	Transmission Control ECU Malfunction	524	Impossible to drive
P3102	Transmission Control ECU Malfunction	525	Impossible to drive
P3102	Transmission Control ECU Malfunction	581	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P3102	Transmission Control ECU Malfunction	582	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P3102	Transmission Control ECU Malfunction	597	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P3102	Transmission Control ECU Malfunction	598	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P3102	Transmission Control ECU Malfunction	599	If shift position cannot be fixed: Impossible to drive If shift position is being fixed: Normal driving
P3107	Lost Communication with Airbag System Control Module	213	Normal driving
P3107	Lost Communication with Airbag System Control Module	214	Normal driving
P3107	Lost Communication with Airbag System Control Module	215	Normal driving
P3108	Lost Communication with A/C System Control Module	535	Normal driving
P3108	Lost Communication with A/C System Control Module	536	Normal driving
P3108	Lost Communication with A/C System Control Module	537	Normal driving
P3108	Lost Communication with A/C System Control Module	538	Normal driving
P3108	Lost Communication with A/C System Control Module	594	Normal driving
P3110	HV Main Relay Malfunction	223	Normal driving
P3110	HV Main Relay Malfunction	527	Impossible to drive

DTC No.	Detection Item	INF Code	Driving Condition
P3137	Collision Sensor Low Input	348	Normal driving
P3138	Collision Sensor High Input	349	Normal driving
P3140	HV Interlock Switch Operation	350	Normal driving
P3143	HV Interlock Switch Open/Short	351	Normal driving
P3211	Drive Motor ”A” Inverter Temperature Sensor Circuit Range/Performance	276	Normal driving
P3211	Drive Motor ”A” Inverter Temperature Sensor Circuit Range/Performance	277	Normal driving
P3212	Drive motor ”A” Inverter Temperature Sensor Circuit Range/Performance	275	Normal driving
P3213	Drive Motor ”A” Inverter Temperature Sensor Circuit High	274	Normal driving
P3221	Generator Inverter Temperature Sensor Circuit Range/Performance	314	Normal driving
P3221	Generator Inverter Temperature Sensor Circuit Range/Performance	315	Normal driving
P3222	Generator Inverter Temperature Sensor Circuit High/Low	313	Normal driving
P3223	Generator Inverter Temperature Sensor Circuit High	312	Normal driving
P3226	DC/DC (Boost) Converter Temperature Sensor Malfunction	562	Normal driving
P3226	DC/DC (Boost) Converter Temperature Sensor Malfunction	563	Normal driving
U0100	Lost Communication with ECM/PCM ”A”	211	Limited driving
U0100	Lost Communication with ECM/PCM ”A”	212	Limited driving
U0100	Lost Communication with ECM/PCM ”A”	530	Limited driving
U0111	Lost Communication with Battery Energy Control Module ”A”	208	Limited driving
U0111	Lost Communication with Battery Energy Control Module ”A”	531	Limited driving
U0129	Lost Communication with Brake System Control Module	220	Regenerative brake ineffective
U0129	Lost Communication with Brake System Control Module	222	Regenerative brake ineffective
U0129	Lost Communication with Brake System Control Module	528	Regenerative brake ineffective
U0129	Lost Communication with Brake System Control Module	529	Regenerative brake ineffective
U0131	Lost Communication with Power Steering Control Module	433	Normal driving
U0131	Lost Communication with Power Steering Control Module	434	Normal driving
U0146	Lost Communication with Gateway ”A”	435	Normal driving