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Diagnostic Trouble Code Index

DTC	SPN	FMI	Circuit	CONDITION DESCRIPTION
1112	168	3	ECM PWR	B+ out-of-range HIGH
1113	168	4	ECM PWR	B+ out-of-range LOW
1114	110	4	ECT	ECT signal out-of-range LOW
1115	110	3	ECT	ECT signal out-of-range HIGH
1121	102	3	MAP	MAP signal out-of-range HIGH
1122	102	4	MAP	MAP signal out-of-range LOW
1124	164	4	ICP	ICP signal out-of-range LOW
1125	164	3	ICP	ICP signal out-of-range HIGH
1131	91	4	APS/IVS	APS signal out-of-range LOW
1132	91	3	APS/IVS	APS signal out-of-range HIGH
1133	91	2	APS/IVS	APS in-range fault
1134	91	7	APS/IVS	APS and IVS disagree
1135	558	11	APS/IVS	IVS signal fault
1143	8021	2	CMP	CMP signal incorrect for CKP sync
1146	8064	12	CKP	CKP Signal Inactive
1147	8064	2	CKP	CKP incorrect signal signature
1151	108	3	ECM	BAP signal out-of-range HIGH
1152	108	4	ECM	BAP signal out-of-range LOW
1154	171	4	IAT	IAT signal out-of-range LOW
1155	171	3	IAT	IAT signal out-of-range HIGH
1156	102	0	MAP	MAP in-range HIGH - MAP above BARO at start
1157	102	1	MAP	MAP in-range LOW - MAP below BARO at start
1161	105	4	MAT	MAT signal out-of-range LOW
1162	105	3	MAT	MAT signal out-of-range HIGH
1221	536	2	CCS	SCCS switch circuit fault
1222	597	2	BPS	Brake switch circuit fault
1253	97	3	WIF	WIF signal out-of-range LOW
1254	97	4	WIF	WIF signal out-of-range HIGH
1255	97	5	WIF	WIF signal open/circuit fault
1276	8366	6	IPR	IPR short to B+, over temperature
1277	8366	5	IPR	IPR short to ground

1287	3464	1	ITV	ITVL OCC self-test failed
1288	3464	0	ITV	ITVH OCC self-test failed
1292	7318	2	ITV	ITVP in-range fault
1293	7318	3	ITV	ITVP signal out-of-range HIGH
1294	7318	4	ITV	ITVP signal out-of-range LOW
1295	51	3	ITV	ITV signal out-of-range HIGH
1296	51	4	ITV	ITV signal out-of-range LOW
1297	51	5	ITV	ITV signal open/circuit fault
1298	51	2	ITV	ITV operation fault - under V, over amp, over temp
1299	175	10	EOT	EOT in-range fault
1311	175	4	EOT	EOT signal out-of-range LOW
1312	175	3	EOT	EOT signal out-of-range HIGH
1328	164	2	ICP	ICP signal constant
1362	412	0	EGR	EGR valve internal high circuit failure
1363	412	1	EGR	EGR valve internal low circuit failure
1374	7279	11	IAH	IAH relay circuit fault
1375	7264	11	GPC	Glow plug relay circuit fault
1396	7137	12	EGR	EGRV Initialization Fault
1397	7137	4	EGR	EGR position in-range fault
1398	8327	7	EGR	EGR unable to achieve desired position
1729	3251	4	EGDP	EGDP signal out-of-range LOW
1731	3251	3	EGDP	EGDP signal out-of-range HIGH
1737	3241	4	EGT1	EGT1 signal out-of-range LOW
1738	3241	3	EGT1	EGT1 signal out-of-range HIGH
1741	3242	4	EGT2	EGT2 signal out-of-range LOW
1742	3242	3	EGT2	EGT2 signal out-of-range HIGH
1744	3245	4	EGT3	EGT3 signal out-of-range LOW
1745	3245	3	EGT3	EGT3 signal out-or-range HIGH
2179	97	2	WIF	Water In Fuel detected
2313	100	1	EWPS	EOP below Warning level
2314	100	7	EWPS	EOP below Critical level
2315	190	0	EWPS	Engine speed above Warning level
2319	518	2	EWPS	Torque limited to control engine overheat
2321	110	0	EWPS	ECT above Warning level
2322	110	7	EWPS	ECT above Critical level

2323	111	1	EWPS	ECL below Warning/Critical level
2324	593	14	IST	Engine stopped by IST
2327	164	10	ICP SYS	ICP abnormal rate-of-change
2332	164	13	ICP	ICP above KOEO specification
2335	8392	1	ICP SYS	ICP unable to build during engine cranking
2338	1639	1	EFAN	Engine fan speed too low
2351	7129	1	AMS	EBP below desired level
2352	7129	0	AMS	EBP above desired level
2368	8146	7	EGR	EGR valve communication fault
2369	1378	2	SER	Engine oil service required
2372	94	1	EFP	Fuel pressure below normal
2388	2659	0	AMS	EGR flow excessive - possible leak to atm
2389	2659	1	AMS	EGR flow insufficient - possible plugged system
2391	2791	11	EGR	EGR valve internal circuit failure
2392	7138	6	EGR	EGR duty-cycle above limit
2393	7137	2	EGR	EGR position sensor fault
2394	8146	2	EGR	EGR valve not receiving ECM CAN messages
2395	7317	3	EGR	EGRH OOC self-test failed
2396	7317	4	EGR	EGRL OOC self-test failed
2543	1136	2	CAN	CAN error present, missing messages from TCM
2544	8329	7	ECM	ECM unable to send CAN messages
2614	7277	10	FPC	Fuel pump relay circuit fault
2673	3242	2	EGT2	EGT2 not warming along with engine
2675	3241	2	EGT1	EGT1 temp not increasing with engine temp
2676	3241	1	EGT1	EGT1 reading off compared to EGT2 and EGT3
2677	3245	2	EGT3	EGT3 not warming along with engine
2678	3245	1	EGT3	EGT3 reading off compared to EGT1 and EGT2
2681	3242	1	EGT2	EGT2 reading off compared to EGT1 and EGT3
2688	8302	0	AFT	DPF over temperature - possible filter damage
2699	3251	1	EGDP	EGDP below desired level
2732	3251	2	EGDP	EGDP stuck in-range fault
2733	3251	10	EGDP	EGDP mismatch between key-on/off
2782	8317	13	AFT	DPF servicing required

2783	8318	13	AFT	DPF load above warning level
2784	8319	13	AFT	DPF load above critical level 1 - engine de-rate
2785	8320	13	AFT	DPF load above critical level 2 - further engine de-rate
3333	8492	0	ICP SYS	ICP above desired level
3334	8492	1	ICP SYS	ICP below desired level
3341	1209	4	EBP	EBP signal out-of-range LOW
3342	1209	3	EBP	EBP signal out-or-range HIGH
3373	164	15	ICP	ICP too high during test
3374	164	17	ICP	ICP unable to build during test
4411	8001	6	INJ	Cyl 1 close coil; open circuit
4412	8002	6	INJ	Cyl 2 close coil; open circuit
4413	8003	6	INJ	Cyl 3 close coil; open circuit
4414	8004	6	INJ	Cyl 4 close coil; open circuit
4415	8005	6	INJ	Cyl 5 close coil; open circuit
4416	8006	6	INJ	Cyl 6 close coil; open circuit
4421	8001	5	INJ	Cyl 1 open coil: open circuit
4422	8003	5	INJ	Cyl 2 open coil: open circuit
4423	8005	5	INJ	Cyl 3 open coil: open circuit
4424	8004	5	INJ	Cyl 4 open coil: open circuit
4425	8002	5	INJ	Cyl 5 open coil: open circuit
4426	8006	5	INJ	Cyl 6 open coil: open circuit
4431	8001	4	INJ	Cyl 1 open coil: short circuit
4432	8003	4	INJ	Cyl 2 open coil: short circuit
4433	8005	4	INJ	Cyl 3 open coil: short circuit
4434	8004	4	INJ	Cyl 4 open coil: short circuit
4435	8002	4	INJ	Cyl 5 open coil: short circuit
4436	8006	4	INJ	Cyl 6 open coil: short circuit
4441	8001	3	INJ	Cyl 1 close coil: short circuit
4442	8003	3	INJ	Cyl 2 close coil: short circuit
4443	8005	3	INJ	Cyl 3 close coil: short circuit
4444	8004	3	INJ	Cyl 4 close coil: short circuit
4445	8002	3	INJ	Cyl 5 close coil: short circuit
4446	8006	3	INJ	Cyl 6 close coil: short circuit
4515	8151	5	INJ	Bank A injector open coil short
4516	8151	6	INJ	Bank A injector close coil short

4521	8152	5	INJ	Bank B injector open coil short
4522	8152	6	INJ	Bank B injector close coil short
4554	8022	7	CKP	CKP loss of sync
5382	1136	0	ECM	ECM over temperature
5618	8334	2	ECM	SPI-BUS error 1
5619	8334	12	ECM	SPI-BUS error 2
5627	8333	12	ECM	Checksum program
5628	8333	2	ECM	Checksum dataset
5632	8254	12	ECM	RAM/CPU self-test fault
5633	8254	0	ECM	CPU load above maximum
5634	8336	12	ECM	MQPS daisy chain failure
5635	8337	12	ECM	OCT daisy chain failure
5636	8338	12	ECM	QPS daisy chain failure
5644	190	2	ECM	Engine speed limitation error
5645	7253	7	ECM	ECM internal EEPROM failure
5646	190	14	ECM	Engine speed: monitoring error
5649	1136	14	ECM	A/D conversion monitoring error
5652	8240	14	ECM	NVMY channel error
5653	8300	14	ECM	PPS monitoring error
5656	8335	14	ECM	Processor monitoring error detected
5666	8339	4	VREF	VREF engine voltage below min
5667	8339	3	VREF	VREF engine voltage above max
5668	8340	4	VREF	VREF chassis voltage below min
5669	8340	3	VREF	VREF chassis voltage above max
5671	8341	4	VREF	VREF body voltage below min
5672	8341	3	VREF	VREF body voltage above max

Name	ProStar	LCF	Comments
Warn Engine Lamp (WEL)	Amber	Amber	The Warn Engine lamp will illuminate when a non-emissions fault is detected in the engine control system.
Malfunction Indicator Lamp (MIL)	Amber	Amber	The Malfunction Indicator lamp will illuminate when an emissions fault is detected in the engine control system
Stop Engine / Water and Oil Lamp (OWL)	Red	Red	The STOP engine lamp will illuminate when a critical engine condition is detected by the engine control system. (Coolant over temp, Low oil pressure, Low coolant level, Critically Over-Loaded DPF)
DPF Regeneration Lamp (Regen)	Amber	Amber	The DPF regeneration lamp will illuminate when the DPF is reaching various stages of overloading. The lamp will not be illuminated when the system is performing an ordinary active or inactive DPF Regeneration. This light being on is a requirement to enable a stationary regeneration.
HOT Exhaust Lamp	Amber	Amber	The HOT Exhaust lamp will illuminate when the exhaust system temperature goes above 400 F with vehicle speed less then 5 mph

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Figure 302 Aftertreatment System Warning Lamps