

E92	Vehicle	Exp	BOB	MEFI Label	MEFI Function	Notes	E92 Label	E92 Function
J1	1			RTN_OEM_IN2	SensRtn - OEM Input2	Analog used as discrete	RTN_BRV	SensRtn - Brake Booster Vacuum
J1	2			FFPS	Feed Fuel Pressure Sensor	470K PD; Analog	FPS	Fuel Pressure Sensor
J1	3	AU		GW1	General Warning 1	470K PD; Analog	AIRPPS2	AIR Pump Pressure Sensor #2
J1	4	CH		BARO	Barometer Sensor	470K PD; Analog	AAP	Absolute Air Pressure Sensor
J1	5			V5BA_BARO	V5B - Barometric		V5BA_AAP	V5B - Absolute Air Pressure Sensor
J1	6	DV		VGOV	Variable Governor	470K PD; Analog	ACPRESS	A/C High-Side Pressure Sensor
J1	7	CE		CATT_B	CAT Temperature Sensor B	2K PU; Analog	ERT	Engine Radiator Temperature Sensor [2K pullup]
J1	8			RTN_FFPS : RTN_FLS1 : RTN_FLS2	SensRtn - FeedFuel Pressure SensRtn - FuelLevelSensor1 SensRtn - FuelLevelSensor2		RTN_FPS	Return - Fuel Pressure Sensor
J1	9	DU		AUX	Aux Analog Input	470K PD; Analog	FTVP	Fuel Tank Vapor Pressure Sensor
J1	10			V5BA_AUX	V5B - Aux Analog		V5BA_FT	V5B - Fuel Tank Sensors
J1	11						TISSHI	Transmission Speed Input
J1	12						N/C	Unassigned (Grounded)
J1	13	EE		FLT	Fuel Temperature Sensor	2K PU; Analog	IAT2 OATS	Induction Air Temperature Sensor #2 : Outside Air Temperature Sensor
J1	14	EA		V5BD_PP1	V5B - Pedal Position #1		V5BD_PP1	V5B - Pedal Position Sensor #1
J1	15	DL		PPS1	Pedal Position Sensor 1	220K PD; Analog	PPS1	Pedal Position Sensor #1
J1	16			V5BA_HSMF : V5BA_INAIR	V5B - High Speed Mass Air Flow : V5B - Intake Air Sensors	Split MEFI-5 harness splice	V5BA_HSMF : V5BA_INAIR	V5B - High Speed Mass Air Flow : V5B - Intake Air Sensors
J1	17			V5BB_OEM_IN2	V5B-OEM Input2	Analog used as discrete	V5BB_BRV	V5B - Brake Booster Vacuum Sensor
J1	18			V5BB_GW2	V5B - General Warning 2		V5BB_APS2	V5B - AIR Pump Pressure Sensor #2
J1	19			RTN_GW2	SensRtn - General Warning 2		RTN_APS2	SensRtn - AIR Pump Pressure Sensor #2
J1	20			RTN_BARO	SensRtn - Barometric		RTN_AAP	SensRtn - Absolute Air Pressure Sensor
J1	21			V5BA_VGOV	V5B - Variable Governor		V5BA_ACP	V5B - A/C High-Side Pressure Sensor
J1	22	EB		RTN_VGOV	SensRtn - Variable Governor		RTN_ACP	SensRtn - A/C High-Side Pressure Sensor
J1	23			RTN_CATT_B	SensRtn - CAT Temp Sensor B		RTN_ERT	SensRtn - Engine Radiator Temperature Sensor
J1	24			V5BA_FFPS	V5B - FeedFuel Pressure Sensor		V5BA_FPS	V5B - Fuel Pressure Sensor
J1	25	CY		FLS1	Fuel Level Sensor #1	244 PU; Analog	FLS	Fuel Level Sensor
J1	26			RTN_AUX	Aux Analog Return		RTN_FT	SensRtn - Fuel Tank Sensors
J1	27	DA		FLS2: VAR_GOV_PU	Fuel Level Sensor #2 : Var Gov Pull-Up	244 PU; Analog	FLS2	Fuel Level Sensor #2
J1	28						N/C	Unassigned (Grounded)
J1	29						N/C	Unassigned (Grounded)
J1	30			RTN_PP1	SensRtn - Pedal Position #1		RTN_PP1	SensRtn - Pedal Position Sensor #1
J1	31						N/C	Unassigned (Grounded)
J1	32	EL		SPEEDCHG*	Speed Based Output	LSD; Discrete output	ACCC*	A/C Compressor Relay Control
J1	33	EC		V5BC_PP2	V5B - Pedal Position #2		V5BC_PP2	V5B - Pedal Position Sensor #2
J1	34	DM		PPS2	Pedal Position Sensor 2	220K PD; Analog	PPP3S2	Pedal Position PPEI3 Sensor #2
J1	35	DE		DTCLMP3*	DTC Lamp 3	LSD; Discrete output	AUXIN : RL : ELCMPMM	Auxiliary Fuel Injector : Reverse Lockout : ELCM Pressure Sensor
J1	36	BJ		CAN2HI	CAN Bus #2 Hi	Not terminated	CAN2HI	CAN Bus #2 Hi
J1	37	BK		CAN2LO	CAN Bus #2 Lo	Not terminated	CAN2LO	CAN Bus #2 Lo
J1	38					3.1K PU; Pulsed input; Slow updates	FCS	Fuel Composition Sensor
J1	39	V		CAN1HI_T	CAN Bus #1 Hi Terminated	Terminated CAN Bus	CANHI_T	CAN Bus Hi Terminated
J1	40	W		CAN1LO_T	CAN Bus #1 Lo Terminated	Terminated CAN Bus	CANLO_T	CAN Bus Lo Terminated
J1	41					Sent protocol	INAIR	Intake Air Sensor
J1	42	DF		BUZZER*	Buzzer	LSD; Discrete output	FAN2*	Fan Control #2
J1	43	T		TACH_PU	Pullup for TACH	2.4K PU; Used as a pullup for tach	RWHSP	Rear Wheel Speed
J1	44	CA		FUELP1	Fuel Pump #1	HSD; Discrete output	FUELP	Fuel Pump
J1	45						N/C	Unassigned (Grounded)
J1	46	AV		MIL*	Malfunction Indicator Lamp	LSD; Discrete output	MIL*	Malfunction Indicator Lamp
J1	47			V5BB_FLSLCT_IN	V5B - Fuel Select Input		V5BB_BPP : V5BB_CPP	V5B - Brake Pedal Position V5B - Clutch Pedal Position
J1	48	CD		FLSLCT_IN	Fuel Select Input	220K PD; Analog	BPP - CPP	Brake Pedal Position Sensor Clutch Pedal Position Sensor
J1	49	AL		INCOOL*	Inner Cooler Relay	LSD; Discrete output	BOCNTRL* : TAUXOP*	Boost Cooling Control Relay : Trans Auxiliary Oil Pump
J1	50	CC		FUELP2	Fuel Pump #2	HSD; Discrete output	FUELP2	Fuel Pump #2
J1	51	EJ	BB	IGN	Run / Crank	8K PD; Analog	IGN	Run/Crank
J1	52	CU, EH	DV, EL	V_BATT	12 Volt Battery Positive		V_BATT	12 Volt Battery Positive (+)
J1	53	DT		RTN_PP2	SensRtn - Pedal Position #2		RTN_PP2	SensRtn - Pedal Position Sensor #2
J1	54						N/C	Unassigned (Grounded)
J1	55	H		OEM_OUT4*	OEM Output #4	LSD; PWM output	AIRPUMP*	AIR Pump Command
J1	56	AA		DTCLMP1*	DTC Lamp 1	LSD; Discrete output	AIRSOL*	AIR Pump Solenoid Relay
J1	57	AY		ESTOP : BRKSW	Emergency Stop : Brake Switch	51K PU; Discrete input	BRAKEPA	Brake Pedal Apply
J1	58	K		OEM_IN2	OEM Input #2	470K PD; Analog used as discrete	BRKBVAC	Brake Booster Vacuum Sensor
J1	59	DR		OEM_OUT3*	OEM Output #3	LSD; PWM output	FAN1*	Fan Control #1
J1	60	BM		GOVMOD	Governor Mode	3.1K PD; Discrete Input	4WDM : RAXLO :	4 WD Mode : Rear Axle Low
J1	61	DB		SLAVE : REVSW	Slave Engine Select : Reverse Switch	3.1K PU; Discrete Input	4WDL	4 WD Low

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J1	62	AP		OEM_IN1	OEM Input #1	3.1K PD; Discrete Input Was 470K PD Analog used as discrete in MEFI-6	IMFM	Ignition Module Fuse Monitor
J1	63	CB		STCNTL	Starter Control	HSD; Discrete output	STCNTL2 TNDSTRP	Starter Control PPEI3 : Tandem Starter Pin Relay
J1	64	AF		LOAD1	Load Anticipate #1	1.2K PD; Discrete Input	CLSW	Cruise Disable - Clutch Switch
J1	65						N/C	Unassigned (Grounded)
J1	66	EA		GOVLMP* : CRSLMP*	Governor Status Lamp : Cruise Lamp	LSD; Discrete output	CVS* : ELCMSV*	Canister Vent Solenoid : ELCM Switching Valve
J1	67		CC	OEM_IN3	OEM Input #3	3.1K PD; Discrete Input Was 470K PD Analog used as discrete in MEFI-6	IMFM2	Ignition Module Fuse Monitor #2
J1	68			RTN_FLSLCT_IN	SensRtn - Fuel Select Input		RTN_BPP : RTN_CPP	SensRtn - Brake Pedal Position SensRtn - Clutch Pedal Position
J1	69						N/C	Unassigned (Grounded)
J1	70	L		BOOT	Boot Mode	9K PD; Discrete input	ACCESS	Accessory
J1	71						N/C	Unassigned (Grounded)
J1	72	EB		PTRELAY*	Powertrain Relay	LSD; Discrete output	PTRELAY*	Powertrain Relay
J1	73	C		PTIGN1	Powertrain Relay Contact #1	Power from PT relay to ECM	PTIGN	Powertrain Relay Contact

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J2	1		AK	GW2	General Warning 2	470K PD; Analog	AIRPPS	AIR Pump Pressure Sensor
J2	2			V5BB_GW1	V5B - General Warning 1		V5BB_APS	V5B - AIR Pump Pressure Sensor
J2	3			RTN_FUELP	SnsRtn - FuelRailPressure		RTN_FUELP	SensRtn - Fuel Rail Differential Pressure Sensor
J2	4			V5BB_VSSD	V5B - Digital VSS		V5BB_FANS	V5B - Fan Speed Sensor
J2	5			V5BB_TOSSD	V5B - Digital TOSS		V5BB_TIS : V5BB_TOSS	V5B - Transmission Input Speed : V5B - Transmission Output Speed
J2	6	AH		VSSV_HI : TOSSV_HI	VR VSS Freq Hi : VR TOSS Freq Hi	3.1K PU; Freq input	TOSSHI	Transmission Output Speed Hi
J2	7	AZ		VSSV_LO : TOSSV_LO	VR VSS Freq Lo : VR TOSS Freq Lo		TOSSLO	Transmission Output Speed Lo
J2	8						TOSSHI : RTOSIN	Transmission Output Speed Hi: Replicated TOS Input
J2	9		CD	CATT_A	CAT Temperature Sensor A	2K PU; Analog	TROILT : EGRT2	Transmission Oil Temperature Sensor [2K pullup] : EGR Temperature Sensor #2
J2	10	Z		O2_A1_HI	Oxygen Sensor A1 Hi	Maintained bias current	O2AHI	Oxygen Sensor A Hi
J2	11	AJ		O2_B1_HI	Oxygen Sensor B1 Hi	Maintained bias current	O2BHI	Oxygen Sensor B Hi
J2	12		DZ	O2_A2_HI	Oxygen Sensor A2 Hi	Maintained bias current	O2CHI	Oxygen Sensor C Hi
J2	13		AT	O2_B2_HI	Oxygen Sensor B2 Hi	Maintained bias current	O2DHI	Oxygen Sensor D Hi
J2	14			V5BB_LEG	V5B - Linear EGR Position		V5BB_LEG : V5BB_EMSW	V5B - Linear EGR Position: V5B - Economy Mode Switch
J2	15	BX		SLOW	Slow Mode	3.1K PU; Freq input used as discrete	HUMIDS	Humidity Sensor
J2	16	BF		ETCCL : IAC2	ETC Motor Close : IAC2 PWM	H-Bridge output	ETCM_CL	ETC Motor Close
J2	17			RTN_GW1	SensRtn - General Warning 1		RTN_APS	SensRtn - AIR Pump Pressure Sensor
J2	18			V5BA_FUELP	V5B - Fuel Rail Pressure Sensor		V5BA_FUELP	V5B - Fuel Rail Differential Pressure Sensor
J2	19	DA		FRAILP	Fuel Rail Pressure Sensor	470K PD; Analog	FRAILP	Fuel Rail Differential Pressure Sensor
J2	20			RTN_VSSD	SensRtn - Digital VSS		RTN_FANS	SensRtn - Fan Speed Sensor
J2	21			RTN_TOSS	SensRtn - Digital TOSS		RTN_TIS : RTN_TOSS	SensRtn - Transmission Output Speed : SensRtn - Transmission Output Speed
J2	22		BU	CRNKREQ	Crank Request	1.3K PD; Discrete input	PTOENK	PTO Remote Engine Shutdown
J2	23	BJ		LOAD2	Load Anticipate #2	1.2K PU; Discrete input	REVGRSW	Engine Reverse Gear Switch
J2	24	AE		VSSD : TOSSD	Digital VSS : Digital TOSS	1.5K PU; Digital Input (not VR)	FANSPD : HSMF2	Fan Speed : High Speed Mass Air Flow 2
J2	25			RTN_CATT_A	SensRtn - CAT Temp Sensor A		RTN_TOT : RTN_EGRT2	SensRtn - Transmission Oil Temperature Sensor : SensRtn - EGR Temperature Sensor #2
J2	26		EE	O2_A1_LO	Oxygen Sensor A1 Lo		O2ALO	Oxygen Sensor A Lo
J2	27			O2_B1_LO	Oxygen Sensor B1 Lo		O2BLO	Oxygen Sensor B Lo
J2	28		EF	O2_A2_LO	Oxygen Sensor A2 Lo		O2CLO	Oxygen Sensor C Lo
J2	29			O2_B2_LO	Oxygen Sensor B2 Lo		O2DLO	Oxygen Sensor D Lo
J2	30	AX		BSTBYPASS*	Boost Bypass	LSD; PWM Output	BBCNTRL*	Boost Bypass Control
J2	31			RTN_LEG	SensRtn - LEGR		RTN_LEG : RTN_EMSW	SensRtn - Linear EGR: SensRtn - Economy Mode Switch
J2	32	CX		ETCOP : IAC1	ETC Motor Open : IAC1 PWM	H-Bridge output	ETCM_OP	ETC Motor Open
J2	33	DM		TPS1	Throttle Position Sensor #1	220K PD; Analog	TPS1 : BATCUR2	Throttle Position Sensor #1 : Battery Current Sensor #2
J2	34			V5BD_TPS1_TPS2	V5B - Throttle Position Sensor 1 and 2		V5BD_TPSS	V5B - Throttle Position Sensors
J2	35	BW		TPS2	Throttle Position Sensor #2	220K PU; Analog	TPS2	Throttle Position Sensor #2
J2	36		K	KNS_FL1	Knock Sensor-Flat #1		KNSA_DAQ	Knock Sensor
J2	37		N	KNS_FL2	Knock Sensor Flat #2		KNSA2_DAQ	Knock Sensor #2
J2	38	DH		TRANS*	Transmission Up-Shift	LSD; Discrete output	SKIPSHIFT* : TransAccumCntrl*	Skip Shift Solenoid : Transmission Accum Control
J2	39			REPCAM	Replicated CAM		REPCAM	Replicated CAM
J2	40			REPCRNK	Replicated Crank		REPCRNK	Replicated Crank 60X-2
J2	41		U	O2_A1_HT*	Oxygen Sensor A1 Heater	LSD; PWM output	O2AHT*	Oxygen Sensor A Heater
J2	42		AB	O2_A2_HT*	Oxygen Sensor A2 Heater	LSD; PWM output	O2CHT*	Oxygen Sensor C Heater
J2	43	CZ		MAP	Manifold Absolute Pressure Sensor	470K PD; Analog	MAP	Manifold Absolute Pressure Sensor
J2	44			V5BC_MAP	V5B - Manifold Absolute Pressure		V5BC_MAP	V5B - Manifold Absolute Pressure Sensor
J2	45		AJ	VSSA : SCIP	VSS Analog : Super Charger Inlet Pressure	470K PD; Analog	AAP2	Absolute Air Pressure Sensor #2
J2	46	BM		SLOW_LMP*	Slow Mode Lamp	LSD; Discrete output	IMTV*	Intake Manifold Tuning Valve
J2	47	AM		SVSLMP*	Service Vessel Soon Lamp	LSD; PWM Output	BPCNTRL2* : HLPRELAY*	Boost Pressure Control #2 : Heater Loop Auxiliary Pump Relay
J2	48	AK		DTCLMP2*	DTC Lamp 2	LSD; Discrete output	CMCV1* : BBCNTRL2* : TNDSTRM*	Change Motion Control Valve #1 : Boost Cooling Control Relay #2 : Tandem Starter Motor Relay
J2	49	V		IAT	Induction Air Temp (or MAT) Sensor	2K PU; Analog	IAT	Induction Air Temperature Sensor
J2	50		DU	LEGRPOS : FLS_LGCY	Linear EGR Position Sensor: Legacy Fuel Level Sensor	220K PD; Analog	LEGRPOS : EMSW	Linear EGR Position Sensor: Economy Mode Switch
J2	51	U		CCP* : FVALVE_A*	Control Canister Purge : Fuel Valve A (LSD)	LSD; PWM output	CCP	Control Canister Purge
J2	52	CF		GW3 : HSMF	General Warning 3 : High Speed Mass Air Flow	1.5K PU; Freq Input	HSMF	High Speed Mass Air Flow
J2	53					Pulse Output	GENLTRM	Generator L Term
J2	54			RTN_TPS1_TPS2	SensRtn - Throttle Position 1 and 2		RTN_TPSS	SensRtn - Throttle Position Sensors
J2	55		CY			Pulse Input	GENFTRM	Generator F Terminal
J2	56		L	RTN_KNS_FL1	Knock SensRtn #1		KNSA_RTN	Knock SensRtn
J2	57		P	RTN_KNS_FL2	Knock SensRtn #2		KNSA2_RTN	Knock SensRtn #2
J2	58	BR		SHIFTINT : CLSW	Shift Interrupt/Trans Lock Low : Clutch Switch	3.1K PU; Discrete Input	NEUTSSW3	Clutch Start PPEI3: Neutral Start PPEI3

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J2	59	BH		TSOILPMP	Two Stage Oil Pump	LSD; Discrete output	TSOILPMP	Two Stage Oil Pump
J2	60	ED		OILLEVLO	Engine Oil Level Low Sensor	3.1K PU; Freq input	OILCOND : OILLEVLO	Engine Oil Condition Sensor : Engine Oil Level Low
J2	61		AA	O2_B1_HT*	Oxygen Sensor B1 Heater	LSD; PWM output	O2BHT*	Oxygen Sensor B Heater
J2	62		AC	O2_B2_HT*	Oxygen Sensor B2 Heater	LSD; PWM output	O2DHT*	Oxygen Sensor D Heater
J2	63			RTN_MAP	SensRtn - Manifold Pressure		RTN_MAP	SensRtn - Manifold Absolute Pressure Sensor
J2	64			V5BB_VSSA : V5BB SCIP	V5B - VSS Analog : Super Charger Inlet Pressure		V5BB_AAP2	V5B - Absolute Air Pressure Sensor #2
J2	65			RTN_VSSA : RTN SCIP : RTN FLT	SensRtn - VSS Analog : Super Charger Inlet Pressure : Fuel Temp Sensor		RTN_AAP2 : RTN_OATS	SensRtn - Absolute Air Pressure Sensor #2 : SensRtn - Outside Air Temperature Sensor
J2	66	AS		MCR_SYNC : HCR_ENBL	Marine Cruise/Sync On/Off : Highway Cruise Enable	3.1K PU; Freq input used as discrete	IMTVPS	Intake Manifold Tuning Valve Position Sensor
J2	67	BZ		MCR_ACC : HCR_RSMACC	Marine Cruise Accel : Highway Cruise ResumeAccel	3.1K PU; Freq input used as discrete	IMTVPS2 : CMCVPS2 : NGS : GEARPOS1 : TAUXOPD	Intake Manifold Tuning Valve Position Sensor #2 : Charge Motion Control Valve (PDA) Position Sensor #2 : Neutral Gear Switch : Gear Position Sensor #1 : Trans Auxiliary Oil Pump Diagnostic
J2	68	BL		MCR_DEC : HCR_SETCST	Marine Cruise Decel : Highway Cruise SetCoast	3.1K PU; Freq input used as discrete	CMCVPS1 : GEARPOS2	Charge Motion Control Valve (PDA) Position Sensor : Gear Position Sensor #2
J2	69	DL		RTN_IAT	SensRtn - Induction Air		RTN_IAT : RTN_INAIR	SensRtn - Induction Air Temperature Sensor : SensRtn - Induction Air Temperature Sensor
J2	70		DT	TPS1_2	Throttle Position Sensors	Sent protocol	TPS1_2	Throttle Position Sensors
J2	71	F		WASTE* : SCB*	WasteGate : Supercharger Boost	LSD; PWM output	BPCNTRL*	Boost Pressure Control (wastegate)
J2	72	CK		TACH*	Tachometer	LSD; PWM output	THMSTC*	Thermostat Control
J2	73	N, EF	EH,EJ	PWRGND	Power Ground #1		PWRGND	Power Ground

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J3	1		CV	EOP	Engine Oil Pressure Sensor	470K PD; Analog input	EOP	Engine Oil Pressure Sensor
J3	2			V5BA_EOP	V5B - Engine Oil Pressure		V5BA_EOP	V5B - Engine Oil Pressure Sensor
J3	3		DK	DIAGFRAIL	Diagnostic Fuel Rail Pressure Sensor	470K PD; Analog input	AAP3 : FRAILP2	Absolute Air Pressure #3 : Fuel Rail Pressure Sensor #2
J3	4					470K PD; Analog input	SCPS : BATCUR1	Step Cam Position Sensor : Battery Current Sensor #1
J3	5						V5BA_SCPS : V5BA_BATCUR	V5B - Step Cam Position Sensor : V5B - Battery Current Sensor
J3	6		BP	OEM_IN4	OEM Input #4	470K PD; Analog input Used as discrete	SCPS2 : ELCMPS	Step Cam Position Sensor #2 : ELCM Pressure Sensor
J3	7		DE	EOT	Engine Oil Temperature Sensor	2K PU; Analog	EOT : HOODSW : EGRT	Engine Oil Temperature Sensor : Hood State Switch : EGR Temperature Sensor
J3	8	CP		ECT	Engine Coolant Temperature Sensor	2K PU; Analog	ECT	Engine Coolant Temperature Sensor
J3	9	BT		OILPRSW	Engine Oil Pressure Switch	3.1K PU; Discrete input	OILPRSW	Engine Oil Pressure Switch
J3	10			V5BB_CRANK	V5B - Crank		V5BB_60X	V5B - Crank 60X-2
J3	11		BH	ESTH	EST H	Active High Output Signal	ESTH	EST H
J3	12		BF	ESTG	EST G	Active High Output Signal	ESTG	EST G
J3	13		BE	ESTF	EST F	Active High Output Signal	ESTF	EST F
J3	14		AX	ESTE	EST E	Active High Output Signal	ESTE	EST E
J3	15			ESTRTN2	EST Return #2		ESTRTN2	EST Return #2
J3	16		S	HPFP	High Pressure Fuel Pump		HPFP	High Pressure Fuel Pump
J3	17			RTN_EOP	SensRtn - Engine Oil Pressure		RTN_EOP	SensRtn - Engine Oil Pressure Sensor
J3	18			V5BB_DIAGFRAIL	V5B - DiagFuelRailPressure		V5BB_AAP3 : V5BB_FRAILP2 : V5BB_GPS : V5BB_ELCMPS	V5B - Absolute Air Pressure #3 : V5B-Fuel Rail Pressure Sensor #2 V5B - Gear Position Sensor : V5B - ELCM Pressure Sensor
J3	19			RTN_DIAGFRAIL	SnsrRtn - DiagFuelRailPressure		RTN_AAP3 : RTN_FRAILP2 : RTN_GPS	Return - Absolute Air Pressure #3 : Return - Fuel Rail Pressure #2 Return - Gear Position Sensor
J3	20						RTN_SCPS : RTN_BATCUR	Return - Step Cam Position Sensor : Return - Battery Current Sensor
J3	21			V5BA_OEM_IN4	V5B OEM Input #4	Analog used as discrete	V5BA_SCPS2	V5B - Step Cam Position Sensor #2
J3	22			RTN_OEM_IN4	SensRtn - OEM Input4	Analog used as discrete	RTN_SCPS2	Return - Step Cam Position Sensor #2
J3	23		EC	RTN_EOT	SensRtn - Engine Oil Temp		RTN_EOT : RTN_HOODSW : RTN_EGRT	SensRtn - Engine Oil Temperature Sensor : SensRtn - Hood State Switch : SensRtn - EGR Temperature Sensor
J3	24			RTN_ECT	SensRtn - Engine Coolant		RTN_ECT	SensRtn - Engine Coolant Temperature Sensor
J3	25			RTN_CRANK	SensRtn - Crank		RTN_60X	SensRtn - Crank 60X-2
J3	26	BC		CRANK	Crank	Digital Input (not VR)	CRANK60X	Crank 60X-2
J3	27		AW	ESTD	EST D	Active High Output Signal	ESTD	EST D
J3	28		AV	ESTC	EST C	Active High Output Signal	ESTC	EST C
J3	29		AM	ESTB	EST B	Active High Output Signal	ESTB	EST B
J3	30		AL	ESTA	EST A	Active High Output Signal	ESTA	EST A
J3	31			ESTRTN	EST Return		ESTRTN	EST Return
J3	32		AJ	HPFPEN	High Pressure Fuel Pump Enable		HPFPEN	High Pressure Fuel Pump Enable
J3	33	D		CAMW	CAMW Sensor	Digital Input (not VR)	CAMW	CAM W
J3	34			V5BA_CAMW	V5B - CAMW		V5BA_CAMW	V5B - CAM W
J3	35	BK		CAMX	CAMX Sensor	Digital Input (not VR)	CAMX	CAM X
J3	36	AR		CAMY	CAMY Sensor	Digital Input (not VR)	CAMY	CAM Y
J3	37			V5BA_CAMY	V5B - CAMY		V5BA_CAMY	V5B - CAM Y
J3	38	AU		CAMZ	CAMZ Sensor	Digital Input (not VR)	CAMZ	CAM Z
J3	39		F	CAMPHCW	CAM Phase Control W	HSD; PWM output	CAMPHCW	CAM Phase Control W
J3	40		H	CAMPHCX	CAM Phase Control X	HSD; PWM output	CAMPHCX	CAM Phase Control X
J3	41		J	CAMPHCY : GOVPWM	CAM Phase Control Y : Non-ETC Gov PWM	HSD; PWM output	CAMPHCY	CAM Phase Control Y
J3	42		E	CAMPHCZ : LEGR : FVALVE_B	CAM Phase Control Z : LEGR : Fuel Valve_B (HSD)	HSD; PWM output	CAMPHCZ : LEGR	CAM Phase Control Z : Linear EGR Valve
J3	43		T	FLSLCT_OUT1*	Fuel Select Output 1	LSD; Complex output used as discrete	CYLD_C : 2STVLC	Cylinder Deactivate C : Two Step Valve Lift C
J3	44	CL		FLSLCT_OUT2*	Fuel Select Output 2	LSD; Complex output used as discrete	CYLD_D : 2STVLD	Cylinder Deactivate D : Two Step Valve Lift D
J3	45		Z	INJENG	Injector Enable G	LSD	INJENG	Injector Enable G
J3	46		W	INJEND*	Injector Enable D	LSD	INJEND	Injector Enable D
J3	47		X	INJENE*	Injector Enable E	LSD	INJENE	Injector Enable E
J3	48		U	INJENB*	Injector Enable B	LSD	INJENB	Injector Enable B
J3	49		AA	INJENH*	Injector Enable H	LSD	INJENH	Injector Enable H
J3	50		V	INJENC*	Injector Enable C	LSD	INJENC	Injector Enable C
J3	51		Y	INJENF*	Injector Enable F	LSD	INJENF	Injector Enable F
J3	52		T	INJENA*	Injector Enable A	LSD	INJENA	Injector Enable A
J3	53			RTN_CAMW	SensRtn - CAMW		RTN_CAMW	SensRtn - CAM W
J3	54			V5BA_CAMX	V5B - CAMX		V5BA_CAMX	V5B - CAM X
J3	55			RTN_CAMX	SensRtn - CAMX		RTN_CAMX	SensRtn - CAM X
J3	56			RTN_CAMY	SensRtn - CAMY		RTN_CAMY	SensRtn - CAM Y
J3	57			V5BA_CAMZ	V5B - CAMZ		V5BA_CAMZ	V5B - CAM Z
J3	58			RTN_CAMZ	SensRtn - CAMZ		RTN_CAMZ	SensRtn - CAM Z
J3	59			CAMPHLOW	CAM Phase Return W		CAMPHLOW	CAM Phase Return W

E92	Vehicle	Exp	BOB	MEFI Label	MEFI Function	Notes	E92 Label	E92 Function
J3	60			CAMPHLOX	CAM Phase Return X		CAMPHLOX	CAM Phase Return X
J3	61			CAMPHLOY	CAM Phase Return Y		CAMPHLOY	CAM Phase Return Y
J3	62			CAMPHLOZ : EGRLO: FVALVE_B_LO	CAM Phase Return Z : EGR Retrun : Fuel Valve_B Return (HSD)		CAMPHLOZ	CAM Phase Return Z : Linear EGR Valve Return
J3	63	S		OEM_OUT1*	OEM Output #1	LSD; Complex output used as discrete	CYLDA : 2STVLA	Cylinder Deactivate A : Two Step Valve Lift A
J3	64	AN		OEM_OUT2*	OEM Output #2	LSD; Complex output used as discrete	CYLDB : 2STVLB	Cylinder Deactivate B : Two Step Valve Lift B
J3	65		H	INJG	Injector G		INJG	Injector G
J3	66		D	INJD	Injector D		INJD	Injector D
J3	67		E	INJE	Injector E		INJE	Injector E
J3	68		B	INJB	Injector B		INJB	Injector B
J3	69		J	INJH	Injector H		INJH	Injector H
J3	70		C	INJC	Injector C		INJC	Injector C
J3	71		F	INJF	Injector F		INJF	Injector F
J3	72		A	INJA	Injector A		INJA	Injector A
J3	73	EH,EJ		PWRGD2	Power Ground #2		PWRGD2	Power Ground #2
	C			PTIGN2	Powertrain Relay Contact #2	Power from P1 relay to ECM E78 Only, N/A with E92		

Green is mapping to pins different than mapped in E78  
 Blue is unused E92 pins  
 Red is unmapped E78 pins