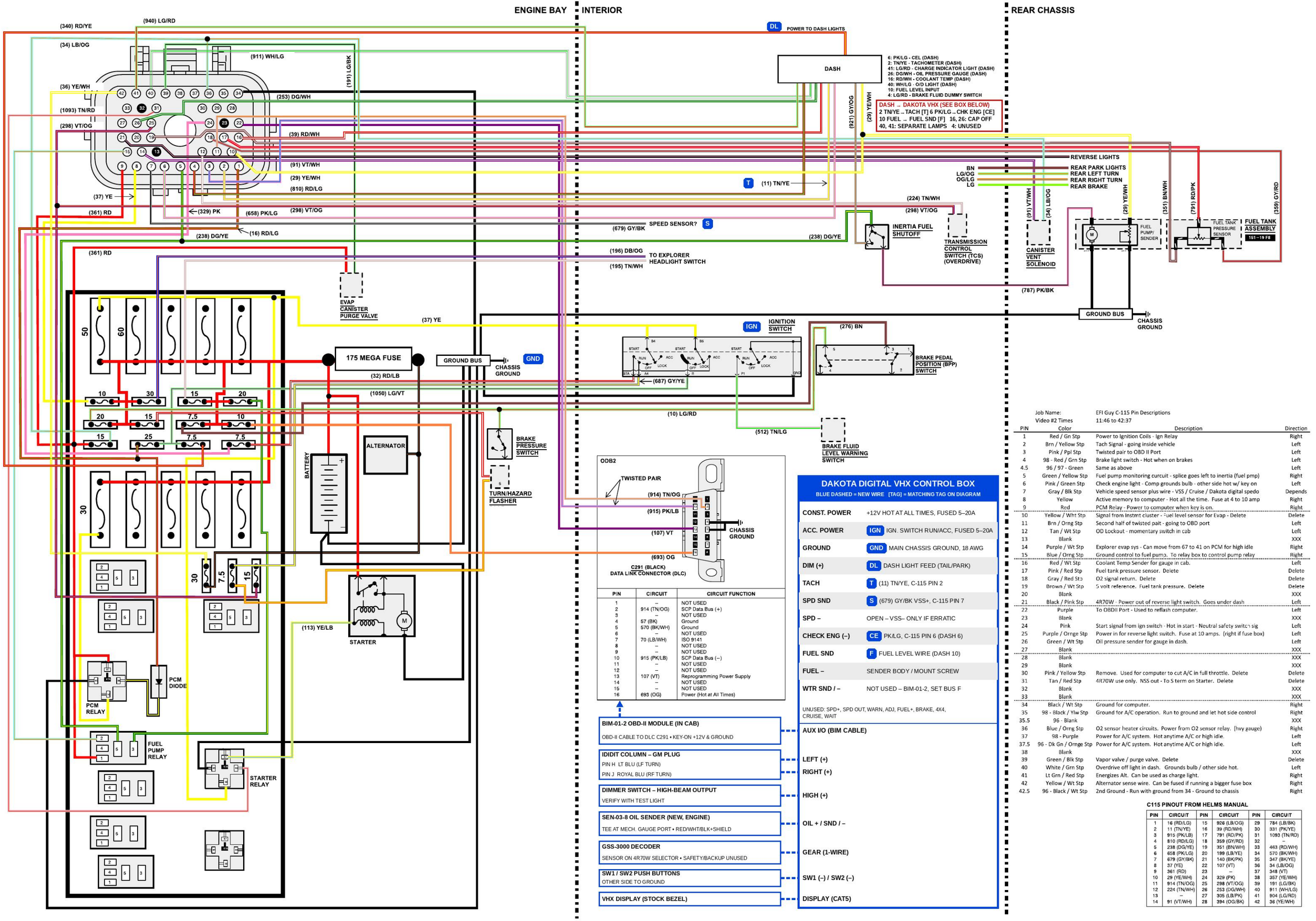


PIN	CIRCUIT	CIRCUIT FUNCTION
1	–	NOT USED
2	914 (TN/OG)	SCP Data Bus (+)
3	–	NOT USED
4	57 (BK)	Ground
5	570 (BK/WH)	Ground
6	–	NOT USED
7	70 (LB/WH)	ISO 9141
8	–	NOT USED
9	–	NOT USED
10	915 (PK/LB)	SCP Data Bus (–)
11	–	NOT USED
12	–	NOT USED
13	107 (VT)	Reprogramming Power Supply
14	–	NOT USED
15	–	NOT USED
16	693 (OG)	Power (Hot at All Times)

BIM-01-2 OBD-II MODULE (IN CAB)
OBD-II CABLE TO DLC C291 • KEY-ON +12V & GROUND

IDIDIT COLUMN – GM PLUG
PIN H LT BLU (LF TURN)
PIN J ROYAL BLU (RF TURN)

DIMMER SWITCH – HIGH-BEAM OUTPUT
VERIFY WITH TEST LIGHT

SEN-03-8 OIL SENDER (NEW, ENGINE)
TEE AT MECH. GAUGE PORT • RED/WHT/BLK+SHIELD

GSS-3000 DECODER
SENSOR ON 4R70W SELECTOR • SAFETY/BACKUP UNUSED

SW1 / SW2 PUSH BUTTONS
OTHER SIDE TO GROUND

VHX DISPLAY (STOCK BEZEL)

DAKOTA DIGITAL VHX CONTROL BOX

BLUE DASHED = NEW WIRE [TAG] = MATCHING TAG ON DIAGRAM

CONST. POWER		+12V HOT AT ALL TIMES, FUSED 5–20A
ACC. POWER	IGN	IGN. SWITCH RUN/ACC, FUSED 5–20A
GROUND	GND	MAIN CHASSIS GROUND, 18 AWG
DIM (+)	DL	DASH LIGHT FEED (TAIL/PARK)
TACH	T	(11) TN/YE, C-115 PIN 2
SPD SND	S	(679) GY/BK VSS+, C-115 PIN 7
SPD –		OPEN – VSS– ONLY IF ERRATIC
CHECK ENG (–)	CE	PK/LG, C-115 PIN 6 (DASH 6)
FUEL SND	F	FUEL LEVEL WIRE (DASH 10)
FUEL –		SENDER BODY / MOUNT SCREW
WTR SND / –		NOT USED – BIM-01-2, SET BUS F

UNUSED: SPD+, SPD OUT, WARN, ADJ, FUEL+, BRAKE, 4X4, CRUISE, WAIT

AUX I/O (BIM CABLE)
LEFT (+)
RIGHT (+)
HIGH (+)
OIL + / SND / –
GEAR (1-WIRE)
SW1 (–) / SW2 (–)
DISPLAY (CAT5)

Job Name: EFI Guy C-115 Pin Descriptions
Video #2 Times 11:46 to 42:37

PIN	Color	Description	Direction
1	Red / Gn Stp	Power to Ignition Coils - Ign Relay	Right
2	Brn / Yellow Stp	Tach Signal - going inside vehicle	Left
3	Pink / Ppl Stp	Twisted pair to OBD II Port	Left
4	98 - Red / Grn Stp	Brake light switch - Hot when on brakes	Left
4.5	96 / 97 - Green	Same as above	Left
5	Green / Yellow Stp	Fuel pump monitoring curcuit - splice goes left to inertia (fuel pmp)	Right
6	Pink / Green Stp	Check engine light - Comp grounds bulb - other side hot w/ key on	Left
7	Gray / Blk Stp	Vehicle speed sensor plus wire - VSS / Cruise / Dakota digital spedo	Depends
8	Yellow	Active memory to computer - Hot all the time. Fuse at 4 to 10 amp	Right
9	Red	PCM Relay - Power to computer when key is on.	Right
10	Yellow / Wht Stp	Signal from Instmt cluster - Fuel level sensor for Evap - Delete	Delete
11	Brn / Orng Stp	Second half of twisted pair - going to OBD port	Left
12	Tan / Wt Stp	OD Lockout - momentary switch in cab	Left
13	Blank		XXX
14	Purple / Wt Stp	Explorer evap sys - Can move from 67 to 41 on PCM for high idle	Right
15	Blue / Orng Stp	Ground control to fuel pump. To relay box to control pump relay	Right
16	Red / Wt Stp	Coolant Temp Sender for gauge in cab.	Left
17	Pink / Red Stp	Fuel tank pressure sensor. Delete	Delete
18	Gray / Red Stp	O2 signal return. Delete	Delete
19	Brown / Wt Stp	5 volt reference. Fuel tank pressure. Delete	Delete
20	Blank		XXX
21	Black / Pink Stp	4R70W - Power out of reverse light switch. Goes under dash	Left
22	Purple	To OBDII Port - Used to reflash computer.	Left
23	Blank		XXX
24	Pink	Start signal from ign switch - Hot in start - Neutral safety switch sig	Left
25	Purple / Orngе Stp	Power in for reverse light switch. Fuse at 10 amps. (right if fuse box)	Left
26	Green / Wt Stp	Oil pressure sender for gauge in dash.	Left
27	Blank		XXX
28	Blank		XXX
29	Blank		XXX
30	Pink / Yellow Stp	Remove. Used for computer to cut A/C in full throttle. Delete	Delete
31	Tan / Red Stp	4R70W use only. NSS out - To S term on Starter. Delete	Delete
32	Blank		XXX
33	Blank		XXX
34	Black / Wt Stp	Ground for computer.	Right
35	98 - Black / Ylw Stp	Ground for A/C operation. Run to ground and let hot side control	Right
35.5	96 - Blank		XXX
36	Blue / Orng Stp	O2 sensor heater circuits. Power from O2 sensor relay. (hvy gauge)	Right
37	98 - Purple	Power for A/C system. Hot anytime A/C or high idle.	Left
37.5	96 - Dk Gn / Orngе Stp	Power for A/C system. Hot anytime A/C or high idle.	Left
38	Blank		XXX
39	Green / Blk Stp	Vapor valve / purge valve. Delete	Delete
40	White / Grn Stp	Overdrive off light in dash. Grounds bulb / other side hot.	Left
41	Lt Grn / Red Stp	Energizes Alt. Can be used as charge light.	Right
42	Yellow / Wt Stp	Alternator sense wire. Can be fused if running a bigger fuse box	Right
42.5	96 - Black / Wt Stp	2nd Ground - Run with ground from 34 - Ground to chassis	Right

C115 PINOUT FROM HELMS MANUAL

PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	16 (RD/LG)	15	926 (LB/OG)	29	784 (LB/BK)
2	11 (TN/YE)	16	39 (RD/WH)	30	331 (PK/YE)
3	915 (PK/LB)	17	791 (RD/PK)	31	1093 (TN/RD)
4	810 (RD/LG)	18	359 (GY/RD)	32	–
5	238 (DG/YE)	19	351 (BN/WH)	33	463 (RD/WH)
6	658 (PK/LG)	20	199 (LB/YE)	34	570 (BK/WH)
7	679 (GY/BK)	21	140 (BK/PK)	35	347 (BK/YE)
8	37 (YE)	22	107 (VT)	36	34 (LB/OG)
9	361 (RD)	23	–	37	348 (VT)
10	29 (YE/WH)	24	329 (PK)	38	357 (YE/WH)
11	914 (TN/OG)	25	298 (VT/OG)	39	191 (LG/BK)
12	224 (TN/WH)	26	253 (DG/WH)	40	911 (WH/LG)
13	–	27	305 (LB/PK)	41	904 (LG/RD)
14	91 (VT/WH)	28	394 (OG/BK)	42	36 (YE/WH)