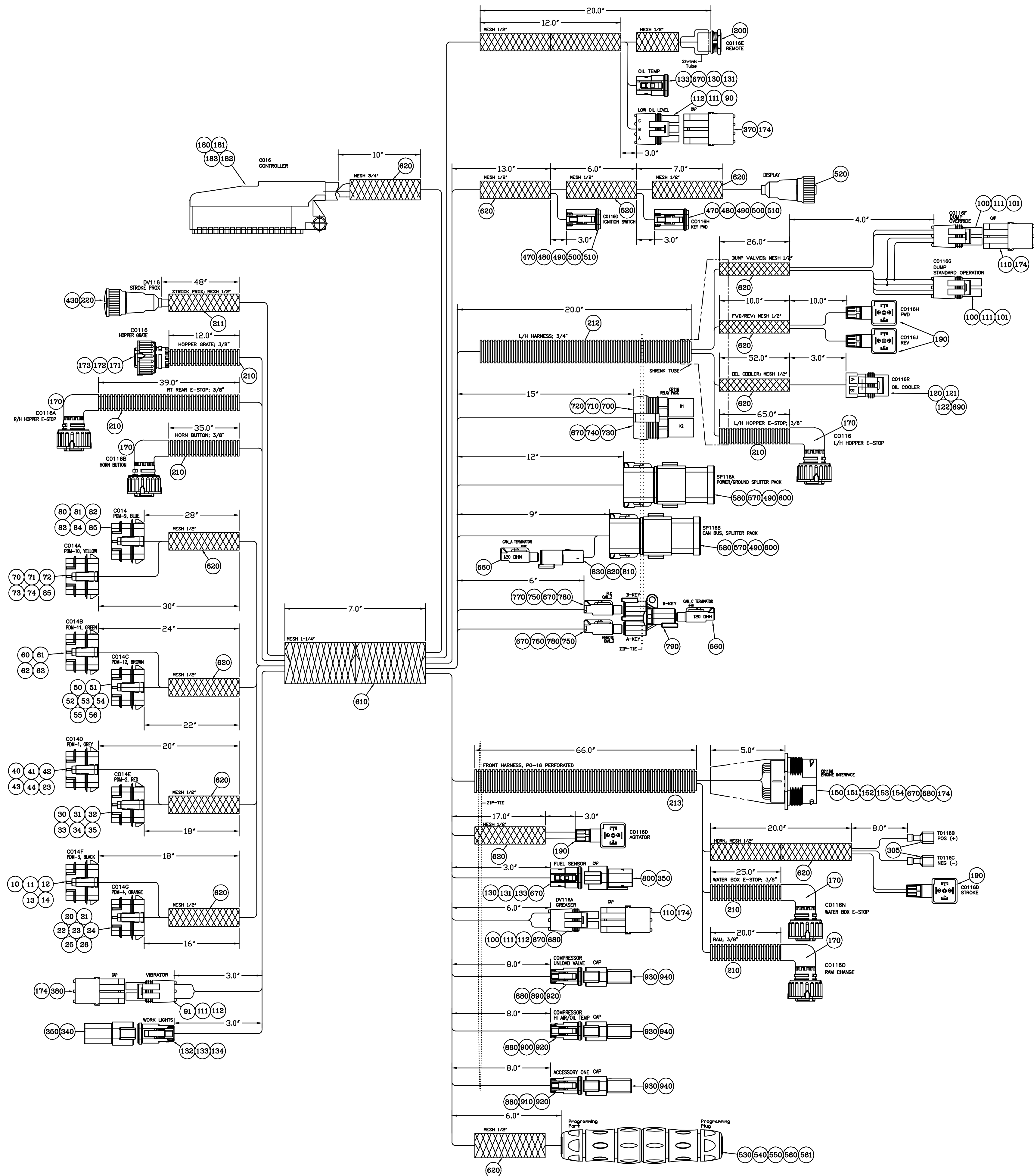


REV	CHANGES	DATE	NAME
00	Release for Production	10/13/16	CK
01	Re-orange harness layout	11/11/16	CK
02	Revised bus/terminal multiplexer pack (Not Released)	12/09/16	CK
03	Ad compliance/assembly connector	12/19/16	CK



Component Connection Specifications				
Function	Pin#	Wire Color	BOM#	Wire Gauge
AGITATOR	1	BRN	190	20 AWG
	2	BLU	190	20 AWG
	1	WHT	200	18 AWG
	2	BRN	200	18 AWG
	3	GRN	200	18 AWG
REMOTE	4	YEL	200	18 AWG
	5	GRY	200	18 AWG
	6	PNK	200	18 AWG
	1	YEL - CAN3	293	18 AWG
	2	GRN - CAN3	293	18 AWG
PLC CAN_3	1	YEL - CAN3	293	18 AWG
	2	GRN - CAN3	293	18 AWG
REMOTE CAN_3	1	YEL - CAN3	293	18 AWG
	2	GRN - CAN3	293	18 AWG
HOPPER GRATE	1	PNK	287	18 AWG
	2	YEL/GRN	287	18 AWG
R/H HOPPER E-STOP	1	WHT/GRN	286	16 AWG
	2	WHT/BLU	286	16 AWG
HORN	1	VLT	258	16 AWG
	2	PNK	276	18 AWG
STROKE	1	BRN	190	20 AWG
	2	BLU	190	20 AWG
DUMP - STANDARD OPERATION	A	BLU/WHT	268	18 AWG
	B	GRN	248	16 AWG
	C	BLU	267	18 AWG
	D	GRN	248	16 AWG
	A	RED	254	16 AWG
DUMP OVERRIDE	B	GRN	248	16 AWG
	C	RED	254	16 AWG
	D	GRN	248	16 AWG
	1	BRN	190	20 AWG
	2	BLU	190	20 AWG
FV/D	1	BRN	190	20 AWG
	2	BLU	190	20 AWG
REV	1	BRN	190	20 AWG
	2	BLU	190	20 AWG
DIL COOLER	A	RED	243	12 AWG
	B	GRN	241	12 AWG
L/H HOPPER E-STOP	1	GRY/RED	250	16 AWG
	2	BRN/ORG	250	16 AWG
HORN	(+)	GRY/RED	250	16 AWG
	(-)	GRN	248	16 AWG
WATER BOX E-STOP	1	YEL/BLK	253	16 AWG
	2	BLK/YEL	256	18 AWG
RAM	1	VLT	258	16 AWG
	2	WHT/YEL	258	16 AWG
ENGINE INTERFACE	A	BRN/ORG	247	16 AWG
	B	BLK	-	12 AWG
	C	RED	254	16 AWG
	F	RED/BLK	286	18 AWG
	K	GRN - CAN	293	18 AWG
	E	GRN	298	12 AWG
	H	RED/BLU	256	16 AWG
	L	YEL - CAN	293	18 AWG
	J	RED/BLK	299	18 AWG
	D	RED/VHT	256	16 AWG
PDM-1	P	RED	296	14 AWG
	M	RED	254	16 AWG
PDM-3	B	ORG/VHT	275	18 AWG
	D	ORG/BLK	274	18 AWG
PDM-4	C	VHT/BLK	280	18 AWG
	G	GRN	270	18 AWG
PDM-10	C	RED	277	18 AWG
	A	WHT	259	16 AWG
OIL TEMP	B	GRN	248	16 AWG
	C	GRY	272	18 AWG

Optional Function Wiring Specification				
Function	Pin#	Wire Color	BOM#	Wire Gauge
LOW DIL	B	PNK	253	16 AWG
	C	BLK/WHT	265	18 AWG
	A	WHT/BLK	260	16 AWG
WORK LIGHT	B	GRN	248	16 AWG
	A	ORG	242	12 AWG
	B	GRN	241	12 AWG
VIBRATOR	1	BRN	220	22 AWG
	3	BLU	220	22 AWG
	4	BLK	220	22 AWG
STROKE PROX	A	WHT/BLU	261	16 AWG
	B	WHT/GRN	248	16 AWG
	C	VHT/GRN	283	18 AWG
FUEL SENSOR	A	RED/VHT	256	16 AWG
	B	GRN	248	16 AWG
	C	PNK	253	16 AWG
GREASER	D	VLT/GRN	280	18 AWG
	1	WHT/YEL	280	18 AWG
	A	RED/VHT	256	16 AWG
COMPRESSOR UNLOAD VALVE	1	WHT	280	18 AWG
	2	YEL/BLK	270	18 AWG
	3	RED	277	18 AWG
COMPRESSOR HI AIR/OIL SV	1	WHT/RED	-	18 AWG
	2	GRN	270	18 AWG
ACCESSORY ONE	1	WHT/RED	-	18 AWG
	2	GRN	270	18 AWG

Splice List	
Separate Wires	Spliced Into
HORN BUTTON, VLT	PDM-10H
RAM PIN 1	PDM-10C
CONTROLLER PIN 10	PDM-10C
CONTROLLER PIN 32	PDM-10C
DUMP STANDARD DP PIN 2	PDM-9B
DUMP STANDARD DP PIN 4	PDM-9E
DUMP OVERRIDE PIN 2	PDM-10F
DUMP OVERRIDE PIN 1	PDM-10F
LOW DIL, +	PDM-11E
GREASER PIN 3	PDM-10D
IGNITION SWITCH PIN E	PDM-10D
IGNITION SWITCH PIN D	PDM-11A
CR116 RELAY PACK PIN A	CONTROLLER PIN 51
CR116 RELAY PACK PIN C	CONTROLLER PIN 51

Harness Instructions

The harness drawing shown depicts the overall general layout of the harness. The left side of the drawing features the PDM plugs as well as the Safety Controller module plug. The "branches" on the right contain all of the endpoint plugs for the functions; include a label on each plug/harness end to indicate function.

Wiring Description

The complete wiring diagram between the PDM plugs, Controller plug, and the function plugs is not shown for clarity purposes. Instead, the wire connections that ARE shown, provide information as to which components are connected to where. For example, a wire line between a PDM module, the controller, and two functions shows that the PDM plug interfaces with the controller and the two functions. It does not specify the specific connection details. For the complete detailed wiring connections, please refer to the table of connections provided on this sheet.

Dimension Explanation

Several of the cable loom branches were consolidated in an effort to decrease the overall size and space occupied by the harness. As such, several of the initial cable looms later split into their individual functions. There are no dimensions specified at these splits as the gap between looms should be kept to a minimum.

Component Connection Specifications				
Function	Pin#	Wire Color	BOM#	Wire Gauge
AGITATOR	A	RED	277	18 AWG
	B	GRN	270	18 AWG
	H	YEL - CAN	293	18 AWG
	F	GRN - CAN	293	18 AWG
	C	RED/VLT	279	18 AWG
REMOTE	D	RED/VLT	278	18 AWG
	3	DRG/BLK	297	18 AWG
	1	RED/VLT	279	18 AWG
	2	WHT/RED	279	18 AWG
	3	DRG/BLK	297	18 AWG
PLC CAN_3	1	YEL - CAN3	293	18 AWG
	2	GRN - CAN3	293	18 AWG
REMOTE CAN_3	1	YEL - CAN3	293	18 AWG
	2	GRN - CAN3	293	18 AWG
HOPPER GRATE	1	PNK	287	18 AWG
	2	YEL/GRN	287	18 AWG
R/H HOPPER E-STOP	1	WHT/GRN	286	16 AWG
	2	WHT/BLU	286	16 AWG
HORN	1	VLT	258	16 AWG
	2	PNK	276	18 AWG
STROKE	1	BRN	190	20 AWG
	2	BLU	190	20 AWG
DUMP - STANDARD OPERATION	A	BLU/WHT	268	18 AWG
	B	GRN	248	16 AWG
	C	BLU	267	18 AWG
	D	GRN	248	16 AWG
	A	RED	254	16 AWG
DUMP OVERRIDE	B	GRN	248	16 AWG
	C	RED	254	16 AWG
	D	GRN	248	16 AWG
	1	BRN	190	20 AWG
	2	BLU	190	20 AWG
FV/D	1	BRN	190	20 AWG
	2	BLU	190	20 AWG
REV	1	BRN	190	20 AWG
	2	BLU	190	20 AWG
DIL COOLER	A	RED	243	12 AWG
	B	GRN	241	12 AWG
L/H HOPPER E-STOP	1	GRY/RED	250	16 AWG
	2	BRN/ORG	250	16 AWG
HORN	(+)	GRY/RED	250	16 AWG
	(-)	GRN	248	16 AWG
WATER BOX E-STOP	1	YEL/BLK	253	16 AWG
	2	BLK/YEL	256	18 AWG
RAM	1	VLT	258	16 AWG
	2	WHT/YEL	258	16 AWG
ENGINE INTERFACE	A	BRN/ORG	247	16 AWG
	B	BLK	-	12 AWG
	C	RED	254	16 AWG
	F	RED/BLK	286	18 AWG
	K	GRN - CAN	293	18 AWG
	E	GRN	298	12 AWG
	H	RED/BLU	256	16 AWG
	L	YEL - CAN	293	18 AWG
	J	RED/BLK	299	18 AWG
	D	RED/VHT	256	16 AWG
PDM-1	P	RED	296	14 AWG
	M	RED	254	16 AWG
PDM-3	B	ORG/VHT	275	18 AWG
	D	ORG/BLK	274	18 AWG
PDM-4	C	VHT/BLK	280	18 AWG
	G	GRN	270	18 AWG
PDM-10	C	RED	277	18 AWG
	A	WHT	259	16 AWG
OIL TEMP	B	GRN	248	16 AWG
	C	GRY	272	18 AWG

Controller Pin Connection List			
Controller Pin	Destination	Wire Color	BOM #
1	PDM-10F	RED/VLT	278
2	STROKE, PIN 1	BRN	190
3	PDM-12G	VHT/GRN	283
4	AGITATOR PIN 1	VHT/GRN	284
5	PDM-1E	VHT/BLK	295
6	PDM-4D	VHT	281
7	PDM-1B	ORG/VHT	275
8	PDM-1D	ORG/BLK	274
9	PDM-10C*	RED	277
10	PDM-10C*	RED	277
11	REV PIN 1	BRN	190
12	FV/D PIN 1	BLU	267
13	DUMP STANDARD PIN A	BLU/WHT	268
14	PDM-12B	RED/VLT	279
15	FUEL SENSOR PIN C	VHT/GRN	283
16	GREASER PIN 3	VLT/GRN	280
17	HOPPER GRATE PIN 2	YEL/GRN	287
18	REMOTE CAN_3 PIN 1	GRN - CAN	293
19	SP116B PIN 8	GRN - CAN	293
20	PDM-10C*	RED	277
21	REMOTE PIN 5	BRN/VHT	291
22	-	-	-
23	L/H HOPPER E-STOP	BRN/ORG	292
24	HORN BUTTON	PNK	276
25	PDM-3G	GRN	270
26	OIL TEMP PIN C	GRY	272
27	RAM	VHT/YEL	285
28	PDM-3H	GRN	270
29	PROGRAMMING PORT PIN C	GRN	273
30	PLC CAN_3 PIN 1	YEL - CAN	293
31	SP116B PIN 11	YEL - CAN	293
32	PROGRAMMING PORT PIN L	ORG	273
33	CR116 PIN A & C	BRN/ORG	292
34	WATER BOX E-STOP	BLK/YEL	286
35	R/H HOPPER E-STOP	WHT/BLU	282
36	LOW DIL	BLK/WHT	265
37	STROKE PROX	BLK	280

* = BONITES SPLICE CONNECTION