

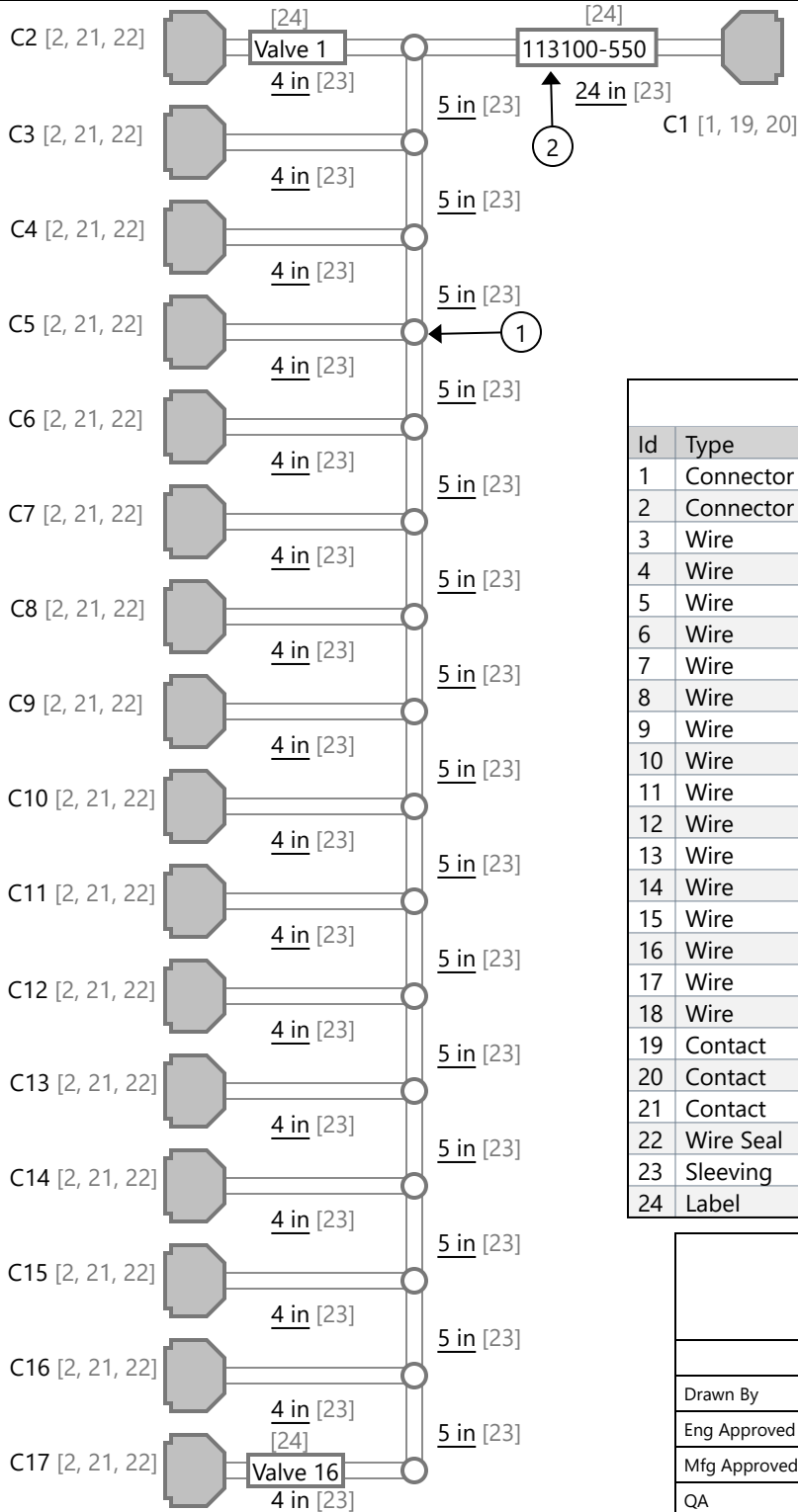
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From	To	Conductor	Color	Gauge	From Contact PN
C1.1	C2.A	W1.Red-White		18 AWG	706530-287
C1.2	C2.B	W2.Red-White		18 AWG	706530-287
C1.3	C3.A	W3.Black-White		18 AWG	706530-287
C1.4	C3.B	W4.Black-White		18 AWG	706530-287
C1.5	C4.A	W5.Blue-White		18 AWG	706530-287
C1.6	C4.B	W6.Blue-White		18 AWG	706530-287
C1.7	C5.A	W7.Yellow-White		18 AWG	706530-287
C1.8	C5.B	W8.Yellow-White		18 AWG	706530-287
C1.9	C6.A	W9.Green-White		18 AWG	706530-287
C1.10	C6.B	W10.Green-White		18 AWG	706530-287
C1.11	C7.A	W11.Brown-White		18 AWG	706530-287
C1.12	C7.B	W12.Brown-White		18 AWG	7706530-287
C1.13	C8.A	W13.Red-Orange		18 AWG	706530-287
C1.14	C8.B	W14.Red-Orange		18 AWG	706530-287
C1.15	C9.A	W15.Black-Orange		18 AWG	706530-287
C1.16	C9.B	W16.Black-Orange		18 AWG	706530-287
C1.17	C10.A	W17.Blue-Orange		18 AWG	706530-287
C1.18	C10.B	W18.Blue-Orange		18 AWG	706530-287
C1.19	C11.A	W19.Yellow-Orange		18 AWG	706530-287
C1.20	C11.B	W20.Yellow-Orange		18 AWG	706530-287
C1.21	C12.A	W21.Green-Orange		18 AWG	706530-287
C1.22	C12.B	W22.Green-Orange		18 AWG	706530-287
C1.23					706530-133
C1.24	C13.A	W23.Brown-Orange		18 AWG	706530-287
C1.25	C13.B	W24.Brown-Orange		18 AWG	706530-287
C1.26	C14.A	W25.White-Red		18 AWG	706530-287
C1.27	C14.B	W26.White-Red		18 AWG	706530-287
C1.28	C15.A	W27.White-Black		18 AWG	706530-287
C1.29	C15.B	W28.White-Black		18 AWG	706530-287
C1.30	C16.A	W29.White-Blue		18 AWG	706530-287
C1.31	C16.B	W30.White-Blue		18 AWG	706530-287
C1.32	C17.A	W31.White-Orange		18 AWG	706530-287
C1.33	C17.B	W32.White-Orange		18 AWG	706530-287
C1.34					706530-133
C1.35					706530-133

Notes

- ① Braid down each drop 3"
- ② Label as required



Revisions

Rev.	Date	Author	Description
A	4/13/2019	Cooper Morris	

Coverings

Id	Assembly
[23]	

Bill of Materials

Id	Type	Part Number	Quantity	Description
1	Connector	706530-286	1	Connector, Plug, 35-Pin, Ampseal, Black
2	Connector	706510-502	16	Shroud, 2 Pin WP
3	Wire	708000-176/9	56 in	Wire, 18Ga, Red/White
4	Wire	708000-177/9	66 in	Wire, 18Ga, Black/White
5	Wire	708000-178/9	76 in	Wire, 18Ga, Blue/White
6	Wire	708000-182/9	86 in	Wire, 18Ga, Yellow/White
7	Wire	708000-174/9	96 in	Wire, 18Ga, Green/White
8	Wire	708000-179/9	106 in	Wire, 18Ga, Brown/White
9	Wire	708000-176/3	116 in	Wire, 18Ga, Red/Orange
10	Wire	708000-177/3	126 in	Wire, 18Ga, Black/Orange
11	Wire	708000-178/3	136 in	Wire, 18Ga, Blue/Orange
12	Wire	708000-182/3	146 in	Wire, 18Ga, Yellow/Orange
13	Wire	708000-174/3	156 in	Wire, 18Ga, Green/Orange
14	Wire	708000-179/3	166 in	Wire, 18Ga, Brown/Orange
15	Wire	708000-175/2	176 in	Wire, 18Ga, White/Red
16	Wire	708000-175/0	186 in	Wire, 18Ga, White/Black
17	Wire	708000-175/6	196 in	Wire, 18Ga, White/Blue
18	Wire	708000-175/3	206 in	Wire, 18Ga, White/Orange
19	Contact	706530-287	32	Contact, Socket, 16-18 Ga. TE Amp Seal
20	Contact	706530-133	3	Plug, Cavity, Ampseal
21	Contact	706530-205	32	Terminal, Male, 18-20 Ga
22	Wire Seal	706500-001	32	Seal, Cable, 16-18 Ga. Green
23	Sleeving	708000-015	163 in	Braiding
24	Label	Generic White Label	3	Generic Label



	Name	Date	Title	
Drawn By	----	----	ORCHARD 16 VALVE HARNESS	
Eng Approved	----	----		
Mfg Approved	----	----		
QA	----	----		
			DWG No: 113100-550	REV A

Title:	ORCHARD 16 VALVE HARNESS
Part Number:	113100-550



Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Connector		706530-286	Connector, Plug, 35-Pin, Ampseal, Black	1	C1
2	Connector		706510-502	Shroud, 2 Pin WP	16	C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17
3	Wire		708000-176/9	Wire, 18Ga, Red/White	56 in	W1, W2
4	Wire		708000-177/9	Wire, 18Ga, Black/White	66 in	W3, W4
5	Wire		708000-178/9	Wire, 18Ga, Blue/White	76 in	W5, W6
6	Wire		708000-182/9	Wire, 18Ga, Yellow/White	86 in	W7, W8
7	Wire		708000-174/9	Wire, 18Ga, Green/White	96 in	W9, W10
8	Wire		708000-179/9	Wire, 18Ga, Brown/White	106 in	W11, W12
9	Wire		708000-176/3	Wire, 18Ga, Red/Orange	116 in	W13, W14
10	Wire		708000-177/3	Wire, 18Ga, Black/Orange	126 in	W15, W16
11	Wire		708000-178/3	Wire, 18Ga, Blue/Orange	136 in	W17, W18
12	Wire		708000-182/3	Wire, 18Ga, Yellow/Orange	146 in	W19, W20
13	Wire		708000-174/3	Wire, 18Ga, Green/Orange	156 in	W21, W22
14	Wire		708000-179/3	Wire, 18Ga, Brown/Orange	166 in	W23, W24
15	Wire		708000-175/2	Wire, 18Ga, White/Red	176 in	W25, W26
16	Wire		708000-175/0	Wire, 18Ga, White/Black	186 in	W27, W28
17	Wire		708000-175/6	Wire, 18Ga, White/Blue	196 in	W29, W30
18	Wire		708000-175/3	Wire, 18Ga, White/Orange	206 in	W31, W32
19	Contact		706530-287	Contact, Socket, 16-18 Ga. TE Amp Seal	32	See Wiring Table
20	Contact		706530-133	Plug, Cavity, Ampseal	3	See Wiring Table
21	Contact		706530-205	Terminal, Male, 18-20 Ga	32	See Wiring Table
22	Wire Seal		706500-001	Seal, Cable, 16-18 Ga. Green	32	See Wiring Table
23	Sleeving		708000-015	Braiding	163 in	See Drawing
24	Label		Generic White Label	Generic Label	3	See Drawing

Title:	ORCHARD 16 VALVE HARNESS
Part Number:	113100-550



From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	To Contact PN	From Wire Seal PN	To Wire Seal PN	Notes
C1.1	C2.A	W1.Red-White	708000-176/9		18 AWG	28 in	706530-287	706530-205		706500-001	
C1.2	C2.B	W2.Red-White	708000-176/9		18 AWG	28 in	706530-287	706530-205		706500-001	
C1.3	C3.A	W3.Black-White	708000-177/9		18 AWG	33 in	706530-287	706530-205		706500-001	
C1.4	C3.B	W4.Black-White	708000-177/9		18 AWG	33 in	706530-287	706530-205		706500-001	
C1.5	C4.A	W5.Blue-White	708000-178/9		18 AWG	38 in	706530-287	706530-205		706500-001	
C1.6	C4.B	W6.Blue-White	708000-178/9		18 AWG	38 in	706530-287	706530-205		706500-001	
C1.7	C5.A	W7.Yellow-White	708000-182/9		18 AWG	43 in	706530-287	706530-205		706500-001	
C1.8	C5.B	W8.Yellow-White	708000-182/9		18 AWG	43 in	706530-287	706530-205		706500-001	
C1.9	C6.A	W9.Green-White	708000-174/9		18 AWG	48 in	706530-287	706530-205		706500-001	
C1.10	C6.B	W10.Green-White	708000-174/9		18 AWG	48 in	706530-287	706530-205		706500-001	
C1.11	C7.A	W11.Brown-White	708000-179/9		18 AWG	53 in	706530-287	706530-205		706500-001	
C1.12	C7.B	W12.Brown-White	708000-179/9		18 AWG	53 in	706530-287	706530-205		706500-001	
C1.13	C8.A	W13.Red-Orange	708000-176/3		18 AWG	58 in	706530-287	706530-205		706500-001	
C1.14	C8.B	W14.Red-Orange	708000-176/3		18 AWG	58 in	706530-287	706530-205		706500-001	
C1.15	C9.A	W15.Black-Orange	708000-177/3		18 AWG	63 in	706530-287	706530-205		706500-001	
C1.16	C9.B	W16.Black-Orange	708000-177/3		18 AWG	63 in	706530-287	706530-205		706500-001	
C1.17	C10.A	W17.Blue-Orange	708000-178/3		18 AWG	68 in	706530-287	706530-205		706500-001	
C1.18	C10.B	W18.Blue-Orange	708000-178/3		18 AWG	68 in	706530-287	706530-205		706500-001	
C1.19	C11.A	W19.Yellow-Orange	708000-182/3		18 AWG	73 in	706530-287	706530-205		706500-001	
C1.20	C11.B	W20.Yellow-Orange	708000-182/3		18 AWG	73 in	706530-287	706530-205		706500-001	
C1.21	C12.A	W21.Green-Orange	708000-174/3		18 AWG	78 in	706530-287	706530-205		706500-001	
C1.22	C12.B	W22.Green-Orange	708000-174/3		18 AWG	78 in	706530-287	706530-205		706500-001	
C1.24	C13.A	W23.Brown-Orange	708000-179/3		18 AWG	83 in	706530-287	706530-205		706500-001	
C1.25	C13.B	W24.Brown-Orange	708000-179/3		18 AWG	83 in	706530-287	706530-205		706500-001	
C1.26	C14.A	W25.White-Red	708000-175/2		18 AWG	88 in	706530-287	706530-205		706500-001	
C1.27	C14.B	W26.White-Red	708000-175/2		18 AWG	88 in	706530-287	706530-205		706500-001	
C1.28	C15.A	W27.White-Black	708000-175/0		18 AWG	93 in	706530-287	706530-205		706500-001	
C1.29	C15.B	W28.White-Black	708000-175/0		18 AWG	93 in	706530-287	706530-205		706500-001	
C1.30	C16.A	W29.White-Blue	708000-175/6		18 AWG	98 in	706530-287	706530-205		706500-001	
C1.31	C16.B	W30.White-Blue	708000-175/6		18 AWG	98 in	706530-287	706530-205		706500-001	
C1.32	C17.A	W31.White-Orange	708000-175/3		18 AWG	103 in	706530-287	706530-205		706500-001	
C1.33	C17.B	W32.White-Orange	708000-175/3		18 AWG	103 in	706530-287	706530-205		706500-001	
C2.A	C1.1	W1.Red-White	708000-176/9		18 AWG	28 in	706530-205	706530-287	706500-001		
C2.B	C1.2	W2.Red-White	708000-176/9		18 AWG	28 in	706530-205	706530-287	706500-001		
C3.A	C1.3	W3.Black-White	708000-177/9		18 AWG	33 in	706530-205	706530-287	706500-001		
C3.B	C1.4	W4.Black-White	708000-177/9		18 AWG	33 in	706530-205	706530-287	706500-001		
C4.A	C1.5	W5.Blue-White	708000-178/9		18 AWG	38 in	706530-205	706530-287	706500-001		
C4.B	C1.6	W6.Blue-White	708000-178/9		18 AWG	38 in	706530-205	706530-287	706500-001		
C5.A	C1.7	W7.Yellow-White	708000-182/9		18 AWG	43 in	706530-205	706530-287	706500-001		
C5.B	C1.8	W8.Yellow-White	708000-182/9		18 AWG	43 in	706530-205	706530-287	706500-001		
C6.A	C1.9	W9.Green-White	708000-174/9		18 AWG	48 in	706530-205	706530-287	706500-001		

Title:	ORCHARD 16 VALVE HARNESS
Part Number:	113100-550



From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	To Contact PN	From Wire Seal PN	To Wire Seal PN	Notes
C6.B	C1.10	 W10.Green-White	708000-174/9		18 AWG	48 in	706530-205	706530-287	706500-001		
C7.A	C1.11	 W11.Brown-White	708000-179/9		18 AWG	53 in	706530-205	706530-287	706500-001		
C7.B	C1.12	 W12.Brown-White	708000-179/9		18 AWG	53 in	706530-205	706530-287	706500-001		
C8.A	C1.13	 W13.Red-Orange	708000-176/3		18 AWG	58 in	706530-205	706530-287	706500-001		
C8.B	C1.14	 W14.Red-Orange	708000-176/3		18 AWG	58 in	706530-205	706530-287	706500-001		
C9.A	C1.15	 W15.Black-Orange	708000-177/3		18 AWG	63 in	706530-205	706530-287	706500-001		
C9.B	C1.16	 W16.Black-Orange	708000-177/3		18 AWG	63 in	706530-205	706530-287	706500-001		
C10.A	C1.17	 W17.Blue-Orange	708000-178/3		18 AWG	68 in	706530-205	706530-287	706500-001		
C10.B	C1.18	 W18.Blue-Orange	708000-178/3		18 AWG	68 in	706530-205	706530-287	706500-001		
C11.A	C1.19	 W19.Yellow-Orange	708000-182/3		18 AWG	73 in	706530-205	706530-287	706500-001		
C11.B	C1.20	 W20.Yellow-Orange	708000-182/3		18 AWG	73 in	706530-205	706530-287	706500-001		
C12.A	C1.21	 W21.Green-Orange	708000-174/3		18 AWG	78 in	706530-205	706530-287	706500-001		
C12.B	C1.22	 W22.Green-Orange	708000-174/3		18 AWG	78 in	706530-205	706530-287	706500-001		
C13.A	C1.24	 W23.Brown-Orange	708000-179/3		18 AWG	83 in	706530-205	706530-287	706500-001		
C13.B	C1.25	 W24.Brown-Orange	708000-179/3		18 AWG	83 in	706530-205	706530-287	706500-001		
C14.A	C1.26	 W25.White-Red	708000-175/2		18 AWG	88 in	706530-205	706530-287	706500-001		
C14.B	C1.27	 W26.White-Red	708000-175/2		18 AWG	88 in	706530-205	706530-287	706500-001		
C15.A	C1.28	 W27.White-Black	708000-175/0		18 AWG	93 in	706530-205	706530-287	706500-001		
C15.B	C1.29	 W28.White-Black	708000-175/0		18 AWG	93 in	706530-205	706530-287	706500-001		
C16.A	C1.30	 W29.White-Blue	708000-175/6		18 AWG	98 in	706530-205	706530-287	706500-001		
C16.B	C1.31	 W30.White-Blue	708000-175/6		18 AWG	98 in	706530-205	706530-287	706500-001		
C17.A	C1.32	 W31.White-Orange	708000-175/3		18 AWG	103 in	706530-205	706530-287	706500-001		
C17.B	C1.33	 W32.White-Orange	708000-175/3		18 AWG	103 in	706530-205	706530-287	706500-001		

Title:	ORCHARD 16 VALVE HARNESS
Part Number:	113100-550



#	Type	Reference Designator	Manufacturer	Part Number	Color	Gauge	Length	Twisted With
1	Wire	W1		708000-176/9	Red-White	18 AWG	28 in	
2	Wire	W2		708000-176/9	Red-White	18 AWG	28 in	
3	Wire	W3		708000-177/9	Black-White	18 AWG	33 in	
4	Wire	W4		708000-177/9	Black-White	18 AWG	33 in	
5	Wire	W5		708000-178/9	Blue-White	18 AWG	38 in	
6	Wire	W6		708000-178/9	Blue-White	18 AWG	38 in	
7	Wire	W7		708000-182/9	Yellow-White	18 AWG	43 in	
8	Wire	W8		708000-182/9	Yellow-White	18 AWG	43 in	
9	Wire	W9		708000-174/9	Green-White	18 AWG	48 in	
10	Wire	W10		708000-174/9	Green-White	18 AWG	48 in	
11	Wire	W11		708000-179/9	Brown-White	18 AWG	53 in	
12	Wire	W12		708000-179/9	Brown-White	18 AWG	53 in	
13	Wire	W13		708000-176/3	Red-Orange	18 AWG	58 in	
14	Wire	W14		708000-176/3	Red-Orange	18 AWG	58 in	
15	Wire	W15		708000-177/3	Black-Orange	18 AWG	63 in	
16	Wire	W16		708000-177/3	Black-Orange	18 AWG	63 in	
17	Wire	W17		708000-178/3	Blue-Orange	18 AWG	68 in	
18	Wire	W18		708000-178/3	Blue-Orange	18 AWG	68 in	
19	Wire	W19		708000-182/3	Yellow-Orange	18 AWG	73 in	
20	Wire	W20		708000-182/3	Yellow-Orange	18 AWG	73 in	
21	Wire	W21		708000-174/3	Green-Orange	18 AWG	78 in	
22	Wire	W22		708000-174/3	Green-Orange	18 AWG	78 in	
23	Wire	W23		708000-179/3	Brown-Orange	18 AWG	83 in	
24	Wire	W24		708000-179/3	Brown-Orange	18 AWG	83 in	
25	Wire	W25		708000-175/2	White-Red	18 AWG	88 in	
26	Wire	W26		708000-175/2	White-Red	18 AWG	88 in	
27	Wire	W27		708000-175/0	White-Black	18 AWG	93 in	
28	Wire	W28		708000-175/0	White-Black	18 AWG	93 in	
29	Wire	W29		708000-175/6	White-Blue	18 AWG	98 in	
30	Wire	W30		708000-175/6	White-Blue	18 AWG	98 in	
31	Wire	W31		708000-175/3	White-Orange	18 AWG	103 in	
32	Wire	W32		708000-175/3	White-Orange	18 AWG	103 in	

Title:	ORCHARD 16 VALVE HARNESS
Part Number:	113100-550



#	Manufacturer	Part Number	Description	Label Text
1		Generic White Label	Generic Label	Valve 1
2		Generic White Label	Generic Label	113100-550
3		Generic White Label	Generic Label	Valve 16