

K1416 - Wiring Schematic Weigh System - DC Retrofit Kit



Function	Truck Wire (original)	DC Cabinet Terminal	Harness Wire Number	Payload Cabinet Terminal	Payload Controller	Notes
Power (24 V)	PJO1	TBW1-18	90D1	TBW1-1,2,3,4,5,8,9	KS1-3,5,6,25,56	24 Volt Power
Cab Display Switch	PT01	B3-A (3 pin connector)	PT01	TBW1-10	KS1-28	10K Ohm resistor from power
Serial Data to Display TX	P2C20-W	B3-B (3 pin connector)	P2C20-W		KS1-44	
Serial Data to Display GND	P2C20-B	B3-C (3 pin connector)	P2C20-B		KS1-63	
Cab Display Power	PJO2	TBW3-1	P6C01-R	TBW1-12	KS1-17	
Cab Display Ground	XP21	GNDW-4				
PC Serial Port Ground	P3C01-B	TBW2-3	P3C01-B	TBW1-14	KS1-73	
Modular Serial Port Ground	P3C02-B	TBW2-7	P3C02-B	TBW1-14	KS1-73	
Serial Data to Switch RX			Selector Switch Pin 2	TBW1-15	KS1-74	
Serial Data to Switch TX			Selector Switch Pin 5	TBW1-16	KS1-75	
Wheel Speed	P2C03-W	B2-A (2 pin connector)	P2C03-W	TBW1-17	KS1-69	
Wheel Speed Ground	P2C03-B	B2-B (2 pin connector)	P2C03-B	TBW1-18		
RR Press Trans sig+	P2C13-W	B4-D (4 pin connector)	P2C15-W	TBW1-19	KS1-50	Between 1-5 Volts
LR Press Trans sig+	P2C12-W	B4-C (4 pin connector)	P2C14-W	TBW1-21	KS1-31	Between 1-5 Volts
LR & RR Press Trans sig-	P2C12-B & P2C13-B	GNDW-2				
RF Press Trans sig+	P2C11-W	B4-B (4 pin connector)	P2C11-W	TBW1-24	KS1-12	Between 1-5 Volts
LF Press Trans sig+	P2C10-W	B4-A (4 pin connector)	P2C10-W	TBW1-27	KS1-70	Between 1-5 Volts
LF & RF Press Trans sig-	P2C10-B & P2C11-B	GNDW-3				
Press Trans Ground	XP10 & XP11	GNDW-4	XP10	TBW1-29	KS1-47	
Parking Brake	PM01B	TBW1-15	PM01B	TBW1-30	KS1-11	24V when park brake applied
Ground	XP20	TBW1-7	XP20	TBW1-32		
Overload		B1-A (1 pin connector)	PU01	TBW1-33	KS1-14	24V when overloaded
Truck Empty	PE01	TBW1-5	PE01	TBW1-34	KS1-13	24V when empty
Service Brake	PG01	TBW1-9	PG01	TBW1-35	KS1-29	tied to brake light circuit 24V=active
Dynamic Retard	PB01	TBW1-10	PB01	TBW1-36	KS1-10	tied to dynamic retard light circuit 24V=active
Propel	PP01	TBW1-12	PP01	TBW1-37	KS1-68	24V=propelling active
Dump Body Up	PH01	TBW1-13	PH01	TBW1-38	KS1-49	24V=dump body up
Load/Hand Brake	PM01	TBW1-14	PM01	TBW1-39	KS1-30	24V=load brake applied
Press Trans Power (10V)	PS01 & PS02	TBW1-3	PS01	TBW1-40	KS1-66	10V supply to pressure transducers
Modular Serial Port TX	P3C02-R	TBW2-5	P3C02-R	Selector Switch Pin 6		
Modular Serial Port RX	P3C02-W	TBW2-6	P3C02-W	Selector Switch Pin 3		
PC Serial Port TX	P3C01-R	TBW2-1	P3C01-R	Selector Switch Pin 4		
PC Serial Port RX	P3C01-W	TBW2-2	P3C01-W	Selector Switch Pin 1		
Relay Power for Red Lights	PLR1 and PLR3	TBW1-1	PLR1-R3	WSR2-14 (Relay)		
Relay Power for Amber Lights	PLA1 and PLA3	TBW1-2	PLA1-A3	WSR3-14 (Relay)		
	P2C15-B	GNDW (DC Control Box)				
	P2C14-B	GNDW (DC Control Box)				
	P2C10-SHLD or P2C11-SHLD	GNDW (DC Control Box)				
	P2C12-SHLD or P2C13-SHLD	GNDW (DC Control Box)				
	P2C14-SHLD & P2C15-SHLD	GNDW (DC Control Box)				
	XP13	GNDW (DC Control Box)				
Currently Not Used			Spare 1			
Currently Not Used			Spare 2			
Currently Not Used			Spare 3			
Currently Not Used			Spare 4			
Currently Not Used			Spare 5			



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Third Party Modular/In Cab Laptop Connect Switch					
Serial Data	Truck Wire (original)	DC Cabinet Terminal	Harness Wire Number	Payload Cabinet Terminal	Payload Controller
Selector Switch Pin 2			Blank	TBW1-15	KS1-74
Selector Switch Pin 5			Blank	TBW1-16	KS1-75
Selector Switch Pin 8			Blank	TBW1-3	KS1-5
Modular					
Selector Switch Pin 3	P3C02-W	TBW2-6	P3C02-W		
Selector Switch Pin 6	P3C02-R	TBW2-5	P3C02-R		
Selector Switch Pin 9					KS1-9
PC Connect					
Selector Switch Pin 1	P3C01-W	TBW2-2	P3C01-W		
Selector Switch Pin 4	P3C01-R	TBW2-1	P3C01-R		
Selector Switch Pin 7	No Connection				

