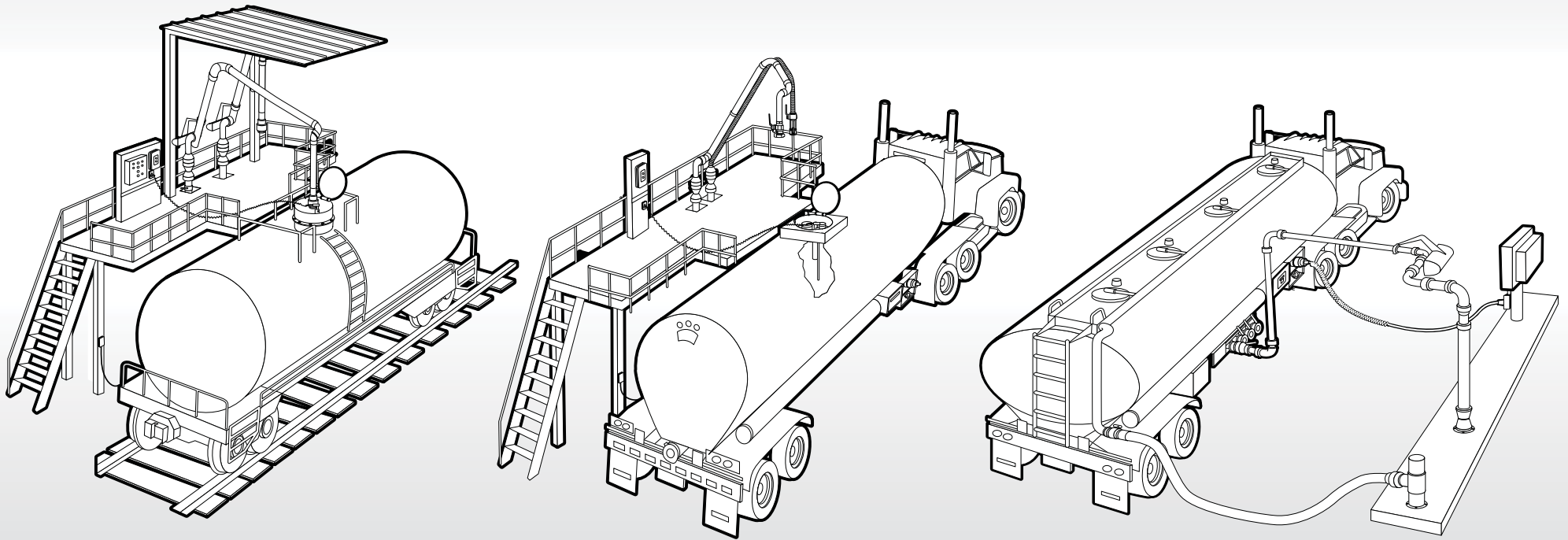


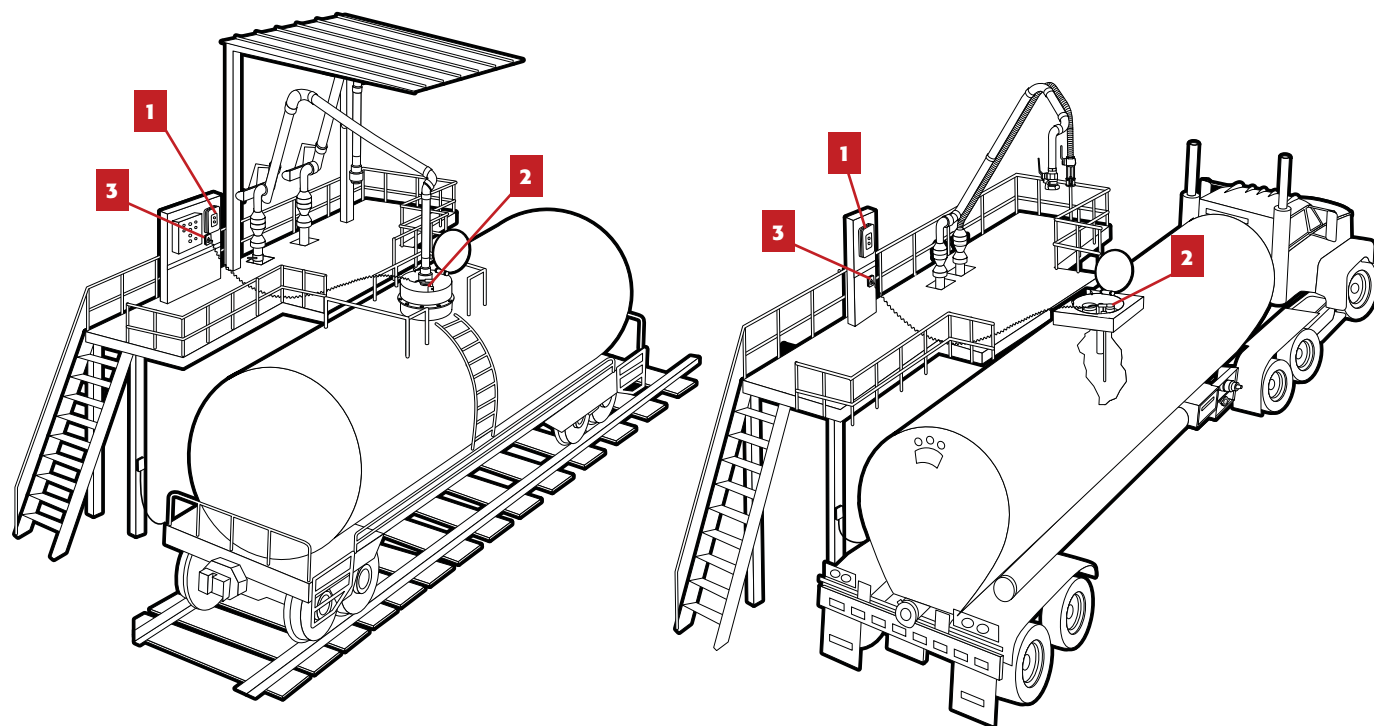


# OVERFILL PROTECTION & GROUND VERIFICATION TOP OR BOTTOM-LOADING RAILCAR AND TANK-TRUCK SYSTEMS, PARTS AND ACCESSORIES

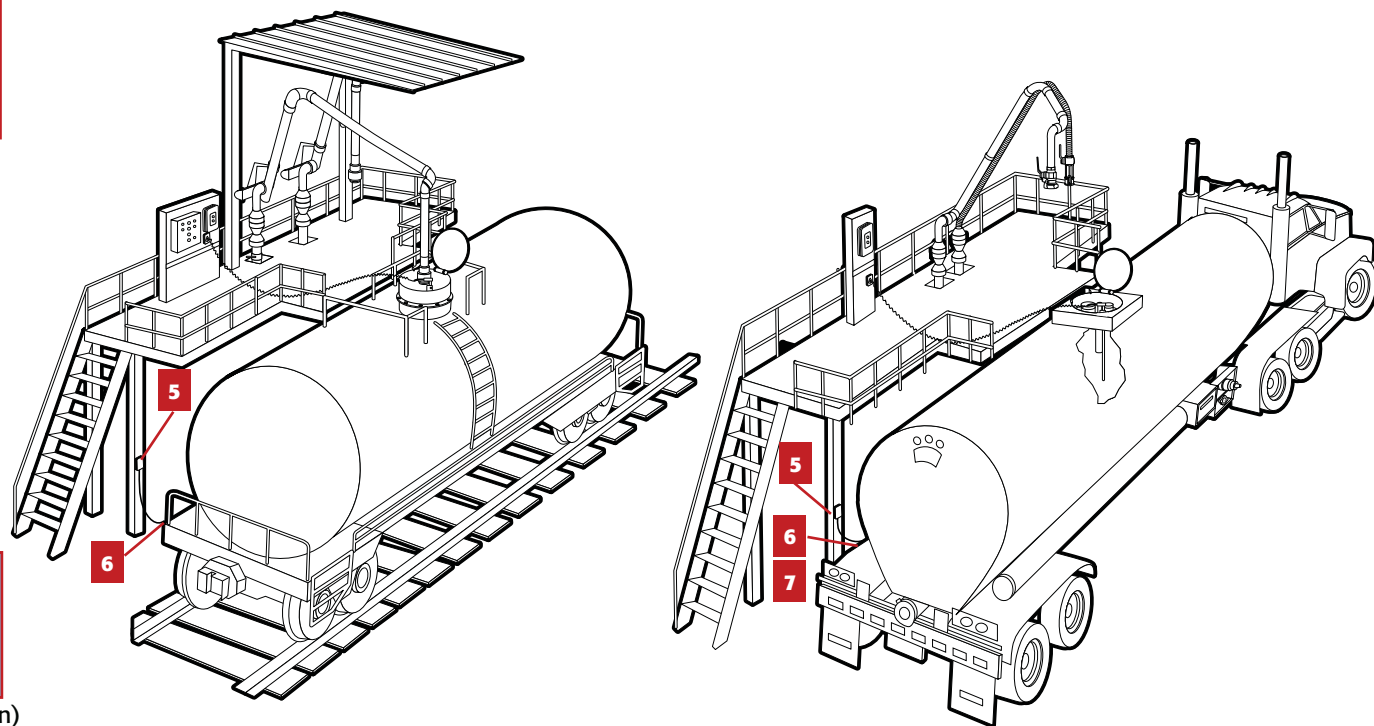


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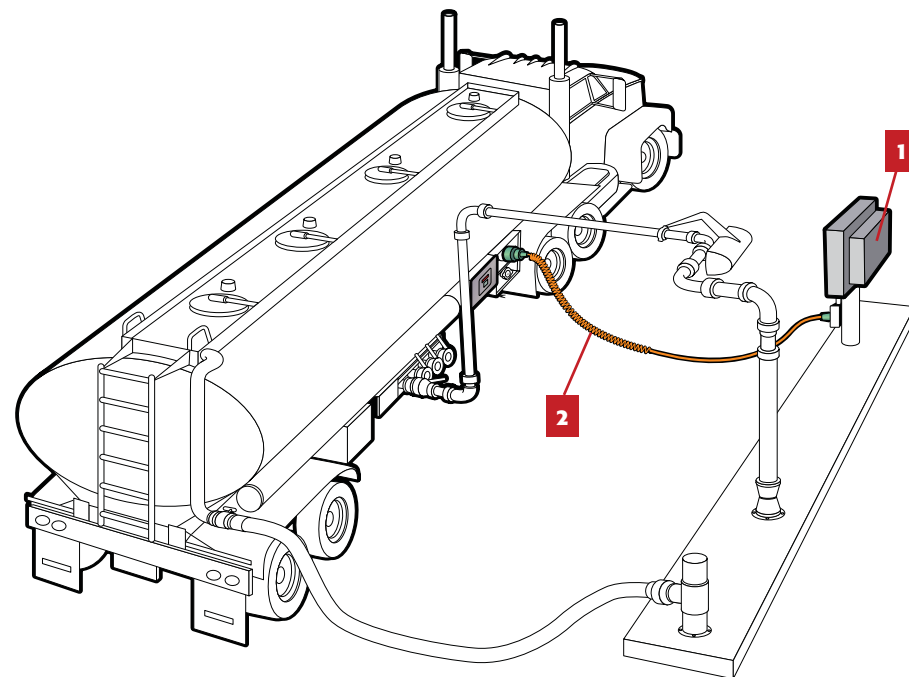




KEY	PRODUCT	LOADING STYLE	PRODUCT #	DESCRIPTION
1	<b>RACK MONITOR</b>		8130-XXX	Optic (5-Wire) Rack Monitor with Ground Verification and Red & Green Indicator Lights. Available in 120 (-120) or 240 (-240) Volt
2	<b>CANE PROBE</b> (select 1)	OPEN LOADING	1300HS-3062	Optic Cane Probe (Aluminum) 60" Standard Length with Universal Clamp, 30' Coiled Cord and 7-Pin Plug
			1400RHS-3060	Optic Cane Probe (Stainless Steel) 60" Standard length with universal Clamp, 30' Coiled Cord and 7-Pin Plug
		CLOSED LOADING	1300KMLS-3062	Optic Cane Probe (Aluminum) 60" Standard Length with Kamlok Coupler, 30' Coiled Cord and 7-Pin Plug
			1400RKMLS-3060	Optic Cane Probe (Stainless Steel) 60" Standard Length with Kamlok Coupler, 30' Coiled Cord and 7-Pin Plug
3	<b>JUNCTION BOX</b>		7540-7540	Junction Box with 7-pin socket for Cane Probe (For use when Optional BCU-2 Bypass Authorizer Option is <b>NOT</b> planned)
			7540-8X30	Junction Box with 7-pin socket for Cane Probe WITH Bypass Port for the 8130 Monitor BCU-2 Overfill Bypass Authorizer
4	<b>OPTION</b>		BCU-2	Electronic Overfill Bypass Authorizer for 8130 Optic Rack Monitors ( <b>Requires 7540-8X30 Junction Box</b> ) <b>NOTE:</b> Does Not Bypass Ground Verification Function of 8130 - ONLY Overfill Detection Function

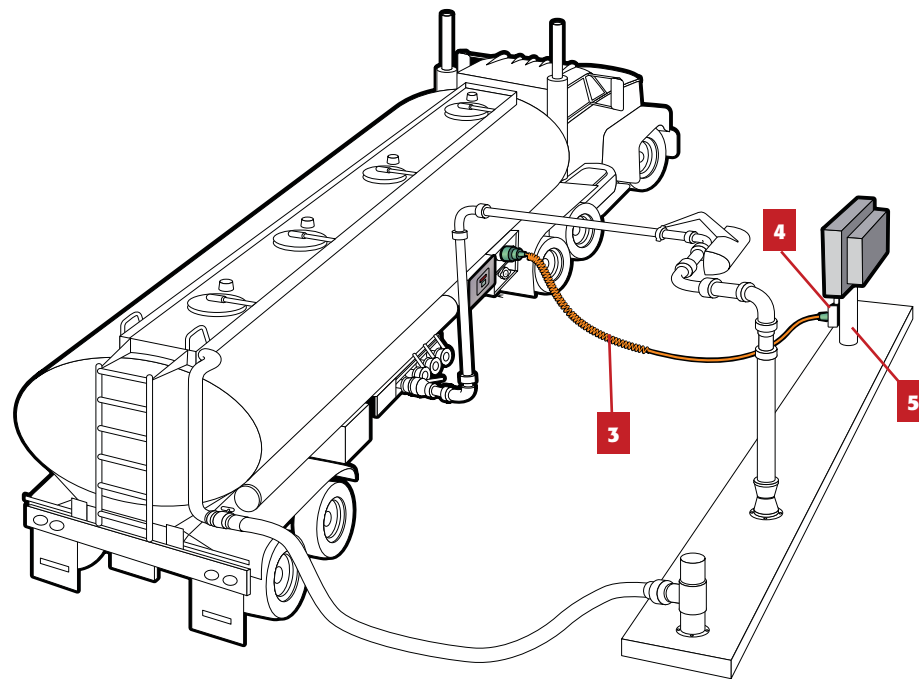


KEY	PRODUCT	CONNECTION STYLE	PRODUCT #	DESCRIPTION
5	<b>GROUND VERIFICATION CONNECTOR, CABLE &amp; JUNCTION BOX ASSEMBLIES</b>	ISOLATED JAW CLAMP (Rail Car & Tanker Use)	7790-7790	Ground Verification Clamp with 40' straight cord and 7500-7500 Junction Box
			7790-COIL	Ground Verification Clamp with 30' coiled cord and 7500-7500 Junction Box
		DUAL BALL CONNECTOR (For Tankers with Dual Balls)	7690-7690	Ground Verification Dual Ball Plug with 30' straight cord and 7500-7500 Junction Box
			7690-COIL	Ground Verification Dual Ball Plug with 30' coiled cord and 7500-7500 Junction Box
	<b>JUNCTION BOX ONLY</b>	Plain Cover, Non-Breakaway	7500-7500	Junction Box Assembly (Non-Breakaway), for use with any Ground Clamp & Cable Below
6	<b>REPLACEMENT CONNECTOR &amp; CABLE ASSEMBLIES</b>	ISOLATED JAW CLAMP	7720-7720	Ground Verification Clamp with 40' straight cord
			7720-COIL	Ground Verification Clamp with 30' coiled cord
		DUAL BALL CONNECTOR	7620-7620	Ground Verification Dual Ball with 30' straight cord
			7620-COIL	Ground Verification Dual Ball Plug with 30' coiled cord
7	<b>ACCESSORY ITEM</b>	DUAL BALL CONNECTOR	7523	Brass Ground Stud with Nut and Lockwasher. (Two Needed per Tanker - for Use with Dual Ball Connector)
	<b>APPLICATION NOTES:</b>	1. The Isolated Jaw Clamp Connection is typically used on rail cars and on tankers where no permanent ground connection point is provided. 2. The Dual Ball Connector can only used on tankers which are already equipped with dual brass ground studs per TTMA Recommended Practice RP73 with Balls spaced 1-1/4" (31.75mm) apart.		



KEY	PRODUCT	APPLICATION	PRODUCT #	DESCRIPTION
1	<b>RACK MONITOR</b>	USA - East of Rockies	8460-8460	Opti/Therm Rack Monitor with Ground Verification, 6 Channel and Key Bypass - (USA Only)
		USA - East of Rockies	8580	Opti/Therm Rack Monitor with Ground Verification, 6 Channel, LED Display and Bypass - (Eastern USA Only)
		Canada - East of Rockies	8580C	Opti/Therm Rack Monitor with Ground Verification, 8 Channel, LED Display and Bypass - (Canada Only)
		USA - East of Rockies	8360-8360	Thermistor (2-Wire) Only Rack Monitor with Ground Verification, 6 Channel and Key Bypass - (USA Only)
		Canada - East of Rockies	8360C-8360	Thermistor (2-Wire) Only Rack Monitor with Ground Verification, 8 Channel and Key Bypass - (Canada Only)
2	<b>PLUG &amp; CABLE ASSEMBLIES INCLUDING JUNCTION BOX (ALSO AVAILABLE SEPARATELY ON NEXT PAGE)</b>	With Green API Thermistor Standard Plug & Cables	7390S-0020	Green, 2 Locking Pin ,Thermistor Plug with 30' 10-Conductor Orange Coiled Cable and 7500 Junction Box Assembly
			7391S-0020	Green, 2 Locking Pin, Thermistor Plug with 30' 10-Conductor Orange Coiled Cable and 7510T Breakaway Junction Box Assembly
		With Blue API Optic Standard Plug & Cables (Not for Use with 8360 Series)	7190S-0020	Blue, 3 Locking Pin, Optic Plug with 30" 10-Conductor Orange Coiled Cable and 7500 Junction Box Assembly
			7191S-0020	Blue, 3 Locking Pin, Optic Plug with 30" 10-Conductor Orange Coiled Cable and 7540 Breakaway Junction Box Assembly
		With Plug & Cables Featuring a Shielded #9 Wire (for Use at Loading Racks where Electronic Vehicle Identification is in use)	7391SR-0020	Green, 2 Locking Pin, Thermistor Plug with 30' 10-Conductor Orange Coiled Cable (with Shielded #9 Wire) and 7510T Breakaway Junction Box Assembly (Plug & Cable Construction Equivalent to Scully P/N 21818)
			7191SR-0020 (Not for Use with 8360 Series)	Blue, 3 Locking Pin, Optic Plug with 30' 6-Conductor Blue Coiled Cable (with Shielded #9 Wire) and 7540 Breakaway Junction Box Assembly (Plug & Cable Construction Equivalent to Scully P/N 21831)





KEY	PRODUCT	APPLICATION	PRODUCT #	DESCRIPTION
3	<b>PLUG AND CABLE ASSEMBLIES ONLY</b>	With Green API Thermistor Standard Plug	7300-7300	Thermistor Plug with 30' 10-Conductor Coiled Cable
			7300C-7300	Thermistor Plug with 30' 10-Conductor Coiled Cable (Canada only)
			7320-7320	Thermistor Plug with 30' 10-Conductor Coiled Cable and 13-Pin Breakaway Connector (for use with 7510T J-Box)
			7300SR-7300	Thermistor Plug with 30' 10-Conductor Coiled Cable (with Shielded #9 Wire - Replaces Scully P/N 21818)
		With Blue API Optic Standard Plug	7100-7100	Optic Plug with 30' 10-Conductor Coiled Cable
			7120-7120	Optic Plug with 30' 10-Conductor Coiled Cable and 7-Pin Breakaway Plug (for use with 7540 J-Box)
			7100SR-7100	Optic Plug with 30' 6-Conductor Blue Coiled Cable (with Shielded #9 Wire - Replaces Scully P/N 21831)
		Featuring a Shielded #9 Wire (for Use at Loading Racks where Electronic Vehicle Identification is in use)	7320SR-7320	Thermistor Plug with 30' 10-Conductor Coiled Cable (with Shielded #9 Wire) and 13-Pin Breakaway Connector (use with 7510T J-Box)
4	<b>JUNCTION BOX ASSEMBLIES ONLY</b>	Plain Cover, Non-Breakaway	7500-7500	Junction Box Assembly (Non-Breakaway), for use with any Non-Breakaway Optic Plug and Cables Above
		Thermistor Breakaway	7510T-7510	Junction Box Assembly (Optic Breakaway), with 13-Pin Socket for Thermistor Breakaway Plug and Cables Above
		Optic Breakaway	7540-7540	Junction Box Assembly (Optic Breakaway), with 7-Pin Socket for Optic Breakaway Plug and Cables Above
5	<b>ACCESSORY ITEMS</b>	Plug Storage Hangers	7350-7350	Thermistor Plug Storage Hanger (Bolts to Rack Structure)
			7150-7150	Optic Plug Storage Hanger (Bolts to Rack Structure)
6		Rack Tester	1386-1386	Thermistor & Optic Rack Monitor Tester (Includes Ground Verification Test)



8130-120



8150-120



7190S-0020



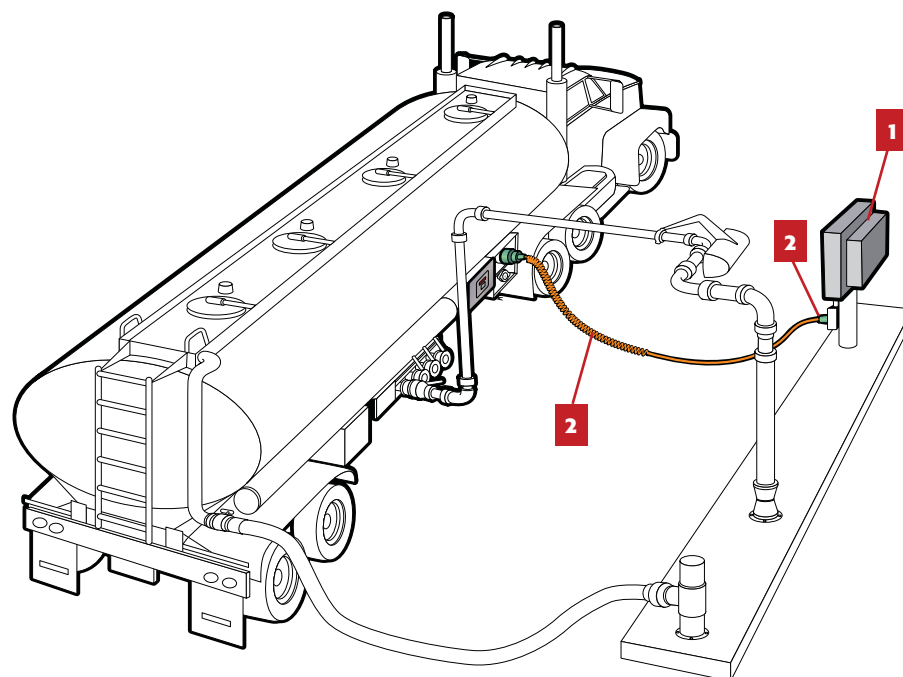
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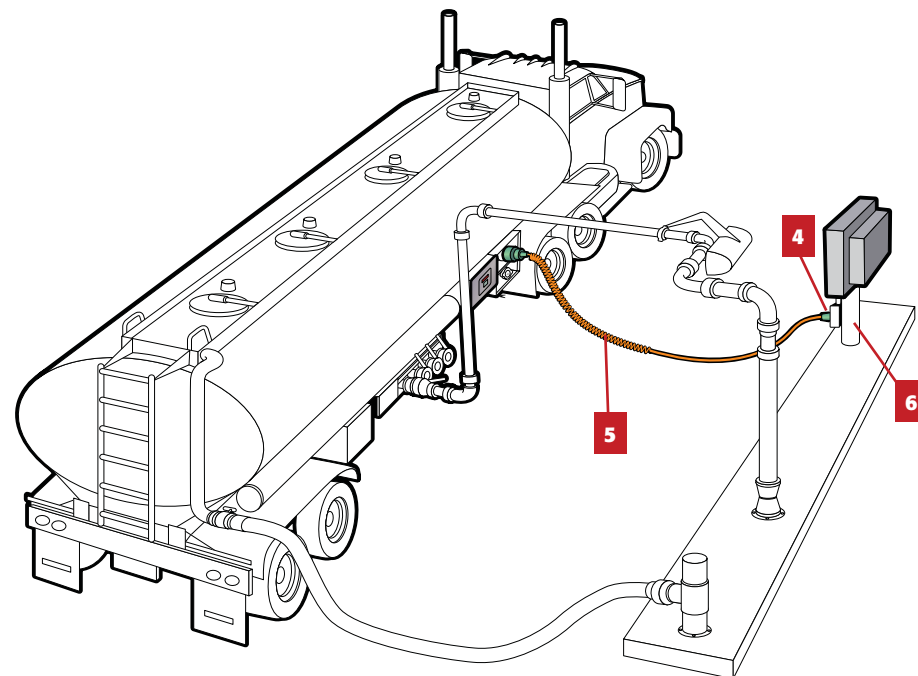
7191SR-7191



BCU-2



KEY	PRODUCT	APPLICATION	PRODUCT #	DESCRIPTION
1	RACK MONITOR	USA & CANADA - West of Rockies	8130-XXX	Optic (5-Wire) Rack Monitor with Ground Verification, Red/Green Indicator Lights. Available in 120 (-120) or 240 (-240) Volt
		USA & CANADA - West of Rockies	8150-XXX	Optic (5-Wire) Rack Monitor with Ground Verification, Red/Green Indicator Lights. Available in 120 (-120) or 240 (-240) Volt. Including the 7560-7560 Junction Box and One BCU-2 Bypass Authorizer
2	PLUG & CABLE ASSEMBLIES INCLUDING JUNCTION BOX (ALSO AVAILABLE SEPARATELY ON NEXT PAGE)	With Blue API Optic Standard Plug & Cables	7190S-0020	Blue, 3 Locking Pin, Optic Plug with 30" 10-Conductor Orange Coiled Cable and 7500 Junction Box Assembly
			7191S-0020	Blue, 3 Locking Pin, Optic Plug with 30" 10-Conductor Orange Coiled Cable and 7540 Breakaway Junction Box Assembly
		With Plug & Cables Featuring a Shielded #9 Wire (for Use at Loading Racks where Electronic Vehicle Identification is in use)	7391SR-0020	Blue, 3 Locking Pin, Optic Plug with 30' 6-Conductor Blue Coiled Cable (with Shielded #9 Wire) and 7540 Breakaway Junction Box Assembly (Plug & Cable Construction Equivalent to Scully P/N 21831)
3	OPTION	Overfill Bypass Authorizer	BCU-2	Electronic Overfill Bypass Authorizer for 8130 Optic Rack Monitor ( <b>Requires 7560-7560 or 7540-8x30 Junction Box</b> ) <b>NOTE:</b> Does Not Bypass Ground Verification Function of 8130 - ONLY Overfill Detection Function



KEY	PRODUCT	APPLICATION	PRODUCT #	DESCRIPTION
4	<b>JUNCTION BOX ASSEMBLIES ONLY</b>	Plain Cover, Non-Breakaway	7500-7500	Junction Box Assembly (Non-Breakaway), for use with any Non-Breakaway Optic Plug and Cables Below
		Optiic Breakaway	7540-7540	Junction Box Assembly (Optic Breakaway), with 7-Pin Socket for Optic Breakaway Plug and Cables Below
		With Bypass Port for BCU-2 Use (Order Plug & Cable Separately on Next Page)	7560-7560	Junction Box Assembly (Non-Breakaway) with BCU-2 Port, for use with any Non-Breakaway Optic Plug and Cables Below
			7540-8X30	Junction Box Assembly (Optic Breakaway) with BCU-2 Port, with 7-Pin Socket for Optic Breakaway Plug and Cables Below
4	<b>PLUG AND CABLE ASSEMBLIES ONLY</b>	With Blue API Optic Standard Plug	7100-7100	Optic Plug with 30' 10-Conductor Coiled Cable
			7120-7120	Optic Plug with 30' 10-Conductor Coiled Cable and 7-Pin Breakaway Plug (for use with 7540 J-Box)
			7100SR-7100	Optic Plug with 30' 6-Conductor Blue Coiled Cable (with Shielded #9 Wire - Replaces Scully P/N 21831)
		Featuring a Shielded #9 Wire (for Use at Loading Racks where Electronic Vehicle Identification is in use)	7120SR-7120	Optic Plug with 30' 6-Conductor Blue Coiled Cable (with Shielded #9 Wire) and 7-Pin Breakaway Plug (use with 7540 J-Box)
6	<b>ACCESSORY ITEMS</b>	Plug Storage Hanger	7150-7150	Optic Plug Storage Hanger (Bolts to Rack Stucture)
7		Rack Tester	1386-1386	Thermistor & Optic Rack Monitor Tester (Includes Ground Verifacction Test)



8030-120



7790-7790



7790-COIL



7500-7500



7690-7690



7690-COIL



7720-7720



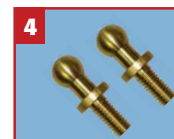
7720-COIL



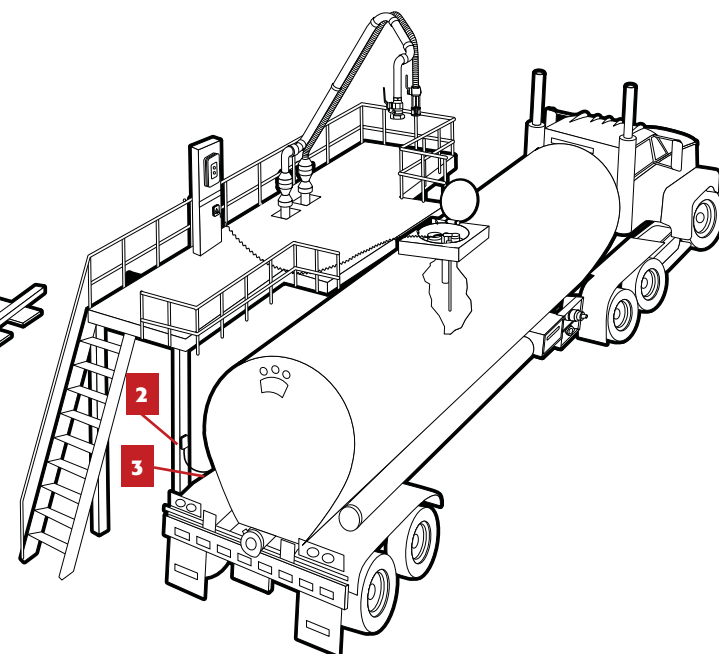
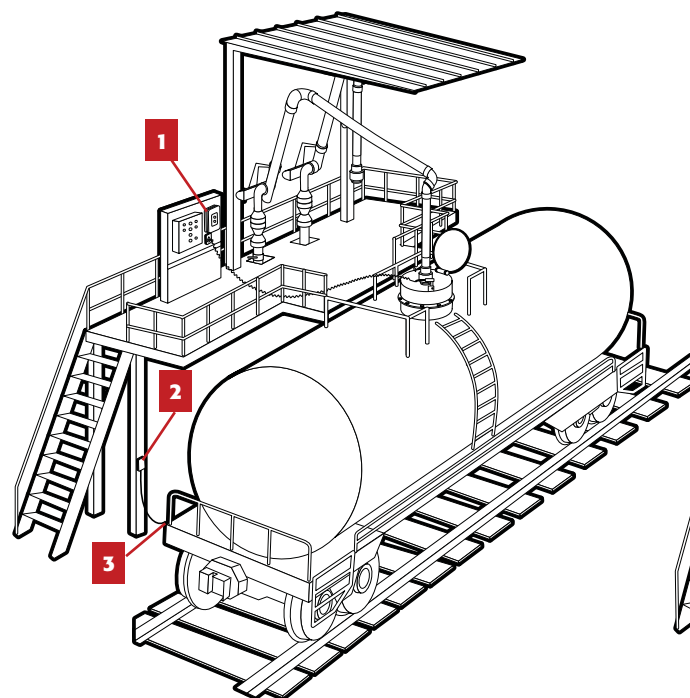
7620-7620



7620-COIL



7523 (Two Shown)



KEY	PRODUCT	CONNECTION STYLE	PRODUCT #	DESCRIPTION
1	<b>GROUND VERIFICATION MONITOR</b>		8030-120	Ground Monitor, with Red/Green Status Lights Available in 120 or 240 Volt
2	<b>GROUND VERIFICATION CONNECTOR, CABLE &amp; JUNCTION BOX ASSEMBLIES</b>	ISOLATED JAW CLAMP (Rail Car & Tanker Use)	7790-7790	Ground Verification Clamp with 40' straight cord and 7500-7500 Junction Box
			7790-COIL	Ground Verification Clamp with 30' coiled cord and 7500-7500 Junction Box
		DUAL BALL CONNECTOR (For Tankers with Dual Balls)	7690-7690	Ground Verification Dual Ball Plug with 30' straight cord and 7500-7500 Junction Box
			7690-COIL	Ground Verification Dual Ball Plug with 30' coiled cord and 7500-7500 Junction Box
3	<b>REPLACEMENT CONNECTOR &amp; CABLE ASSEMBLIES</b>	ISOLATED JAW CLAMP	7720-7720	Ground Verification Clamp with 40' straight cord
			7720-COIL	Ground Verification Clamp with 30' coiled cord
		DUAL BALL CONNECTOR	7620-7620	Ground Verification Dual Ball with 30' straight cord
			7620-COIL	Ground Verification Dual Ball Plug with 30' coiled cord
4	<b>ACCESSORY ITEM</b>	DUAL BALL CONNECTOR	7523	Brass Ground Stud with Nut and Lockwasher. (Two Needed per Tanker - for Use with Dual Ball Connector)
<b>APPLICATION NOTES:</b>		1. The Isolated Jaw Clamp Connection is typically used on rail cars and on tankers where no permanent ground connection point is provided.		
		2. The Dual Ball Connector can only used on tankers which are already equipped with dual brass ground studs per TTMA Recommended Practice RP73 with Balls spaced 1-1/4" (31.75mm) apart.		