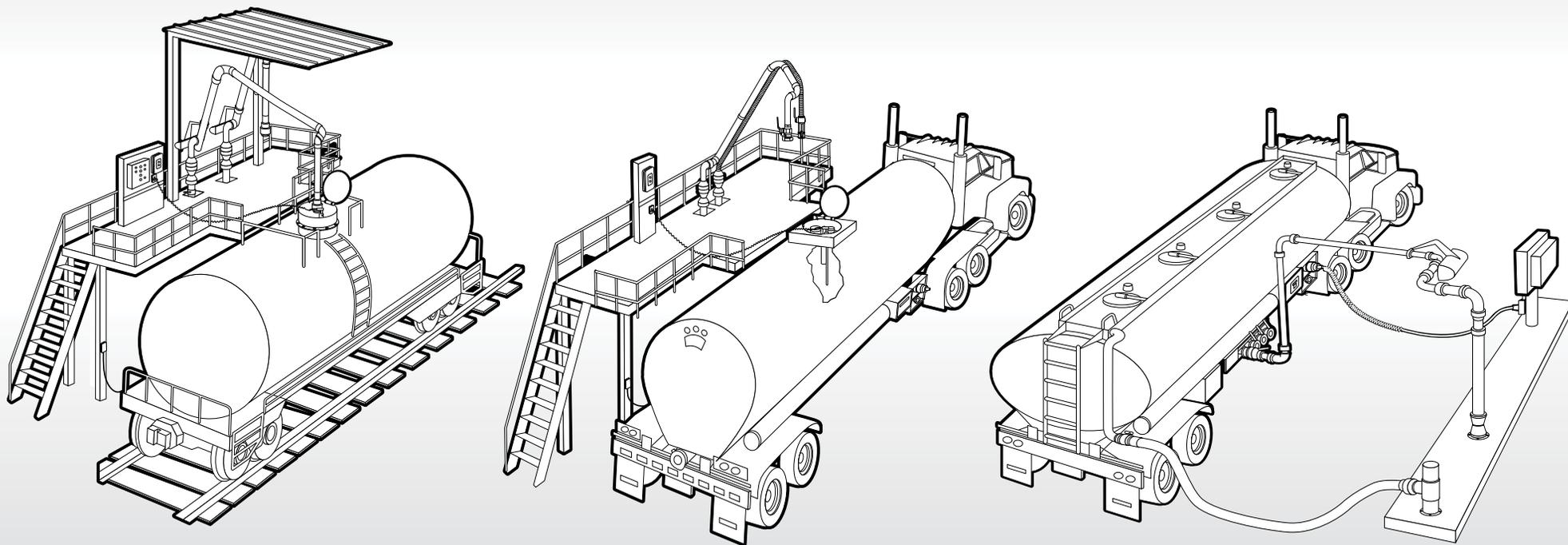


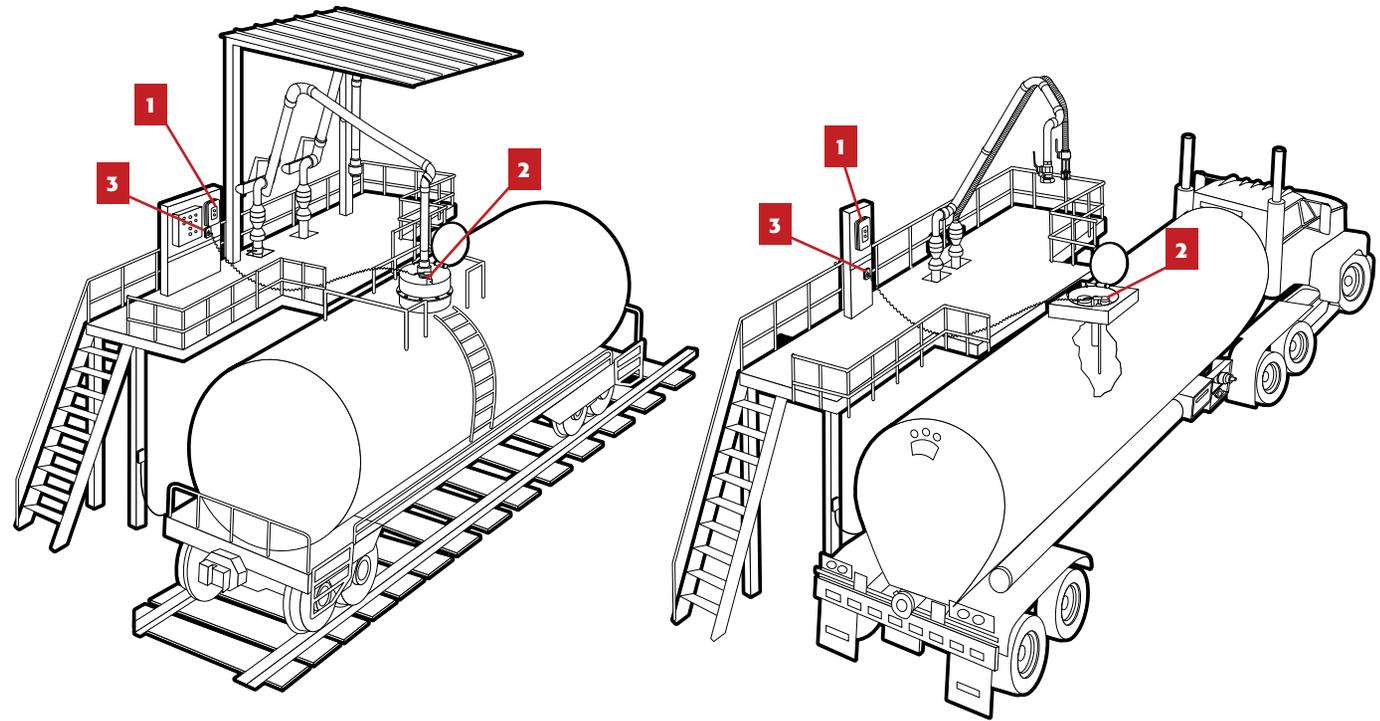


# OVERFILL PROTECTION & GROUND VERIFICATION TOP OR BOTTOM-LOADING RAILCAR AND TANK-TRUCK SYSTEMS, PARTS AND ACCESSORIES

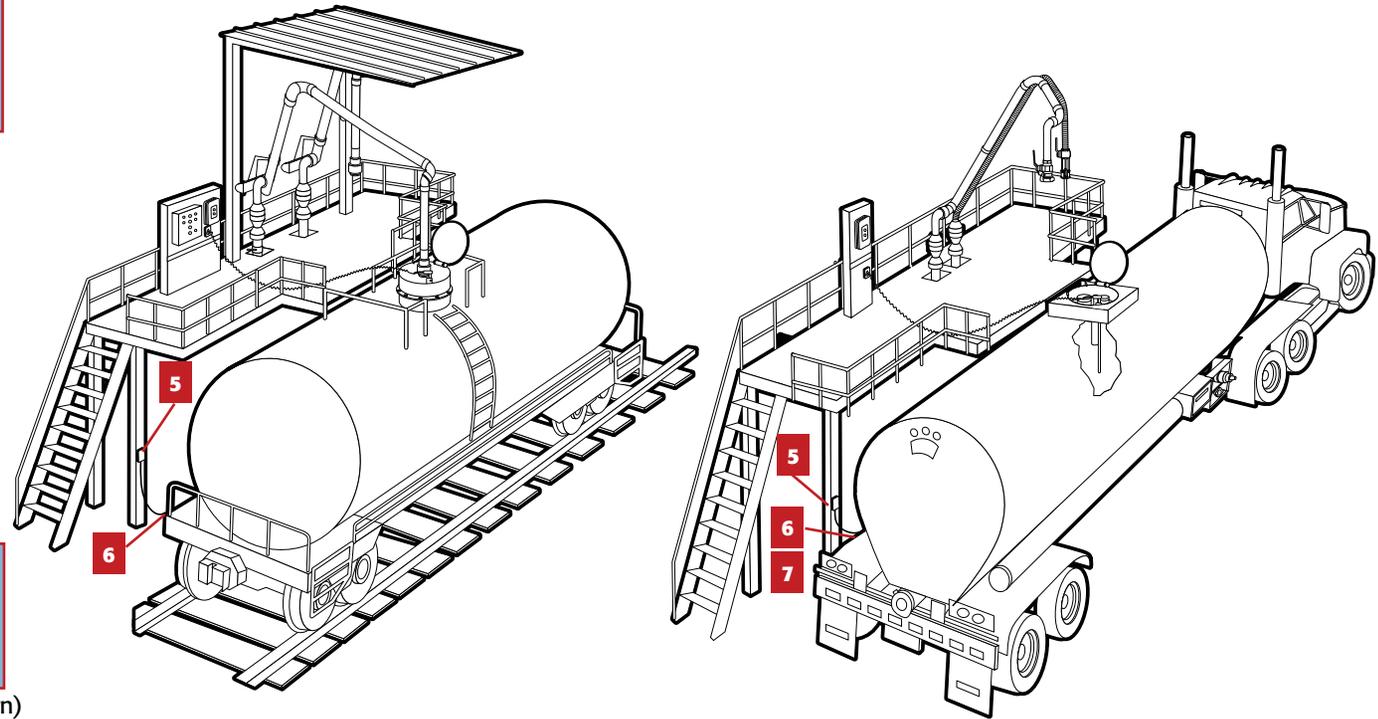


PHONE: (888) 526-5657 • FAX: (816) 741-1061  
4304 Mattox Road • Kansas City, MO 64150 • [www.civacon.com](http://www.civacon.com)





| 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><br>(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> )<br><b>NOTE:</b> Does Not Bypass Ground Verification Function of 8130 - <b>ONLY</b> 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.<br>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. |           |   |



8460 SERIES

8580 SERIES

8360 SERIES



7390S-0020



7391S-0020



7190S-0020



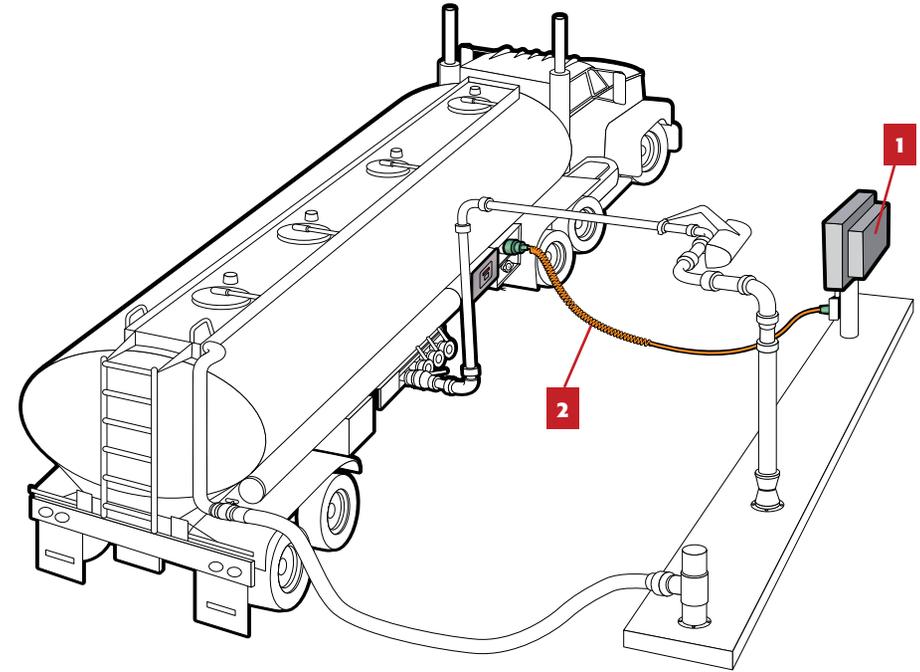
7191S-0020



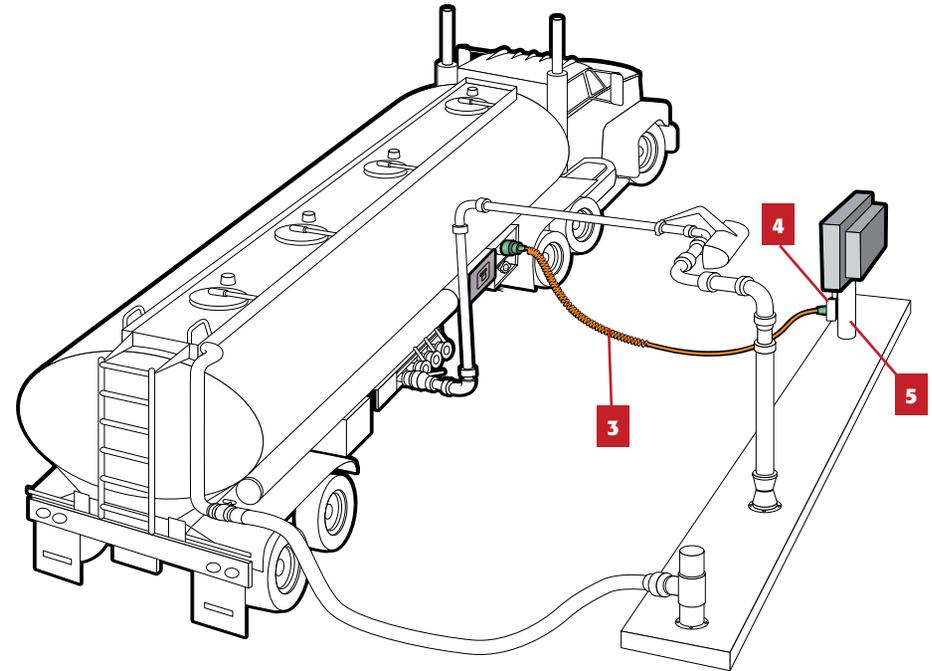
7391SR-7391



7191SR-7191



| KEY  | PRODUCT  | APPLICATION  | PRODUCT #   | DESCRIPTION  |
|--|--|--|-------------|--|
| 1  | RACK MONITOR   | 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  | PLUG & CABLE ASSEMBLIES INCLUDING JUNCTION BOX (ALSO AVAILABLE SEPARATELY ON NEXT PAGE)  | 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) |
|   |                                       | With Blue API Optic Standard Plug  | 7300SR-7300 | Thermistor Plug with 30' 10-Conductor Coiled Cable (with Shielded #9 Wire - Replaces Scully P/N 21818)       |
|   |                                       |  | 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) |             |  |
|   | 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)         |             |  |
| 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



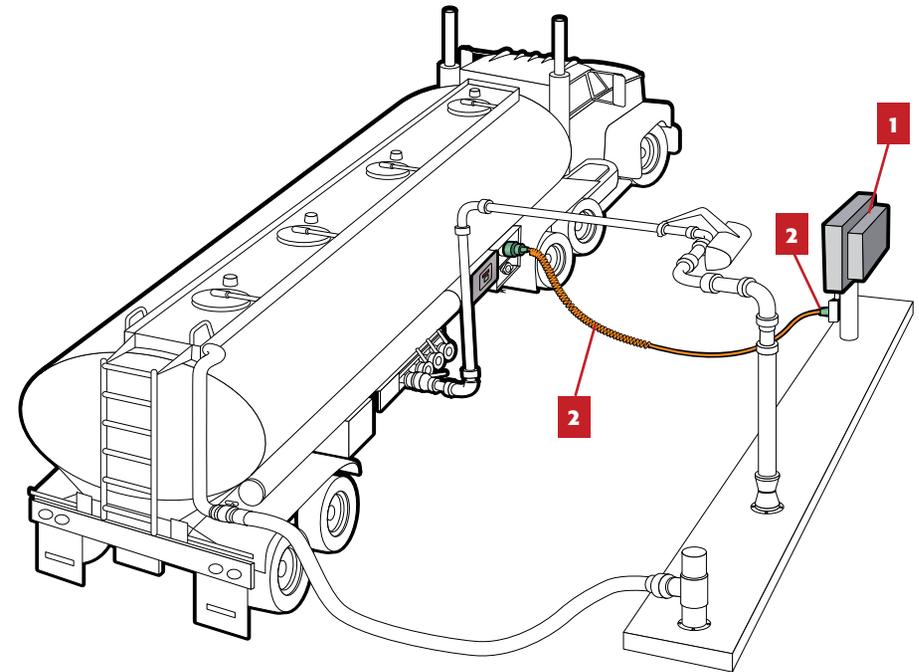
7191S-0020



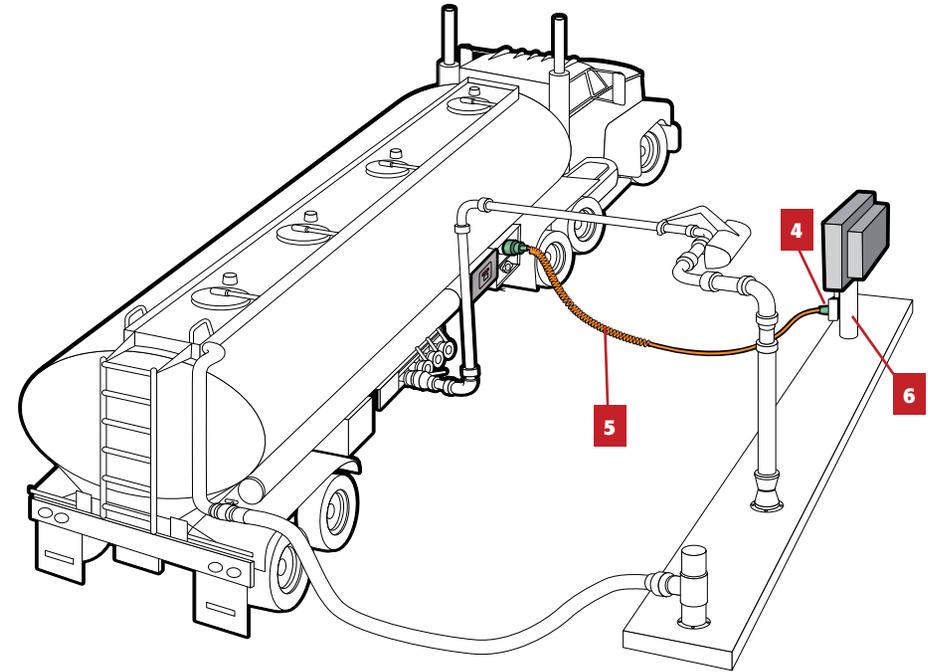
7191SR-7191



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 (Requires 7560-7560 or 7540-8x30 Junction Box) <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  | 7560-7560   | Junction Box Assembly (Non-Breakaway) with BCU-2 Port, for use with any Non-Breakaway Optic Plug and Cables Below        |
|     |                                       | Use (Order Plug & Cable Separately on Next Page)  | 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 Structure)  |
| 7   |                                       | Rack Tester   | 1386-1386   | Thermistor & Optic Rack Monitor Tester (Includes Ground Verifaction Test)  |



8030-120



7790-7790



7790-COIL



7500-7500



7690-7690



7690-COIL



7720-7720



7720-COIL



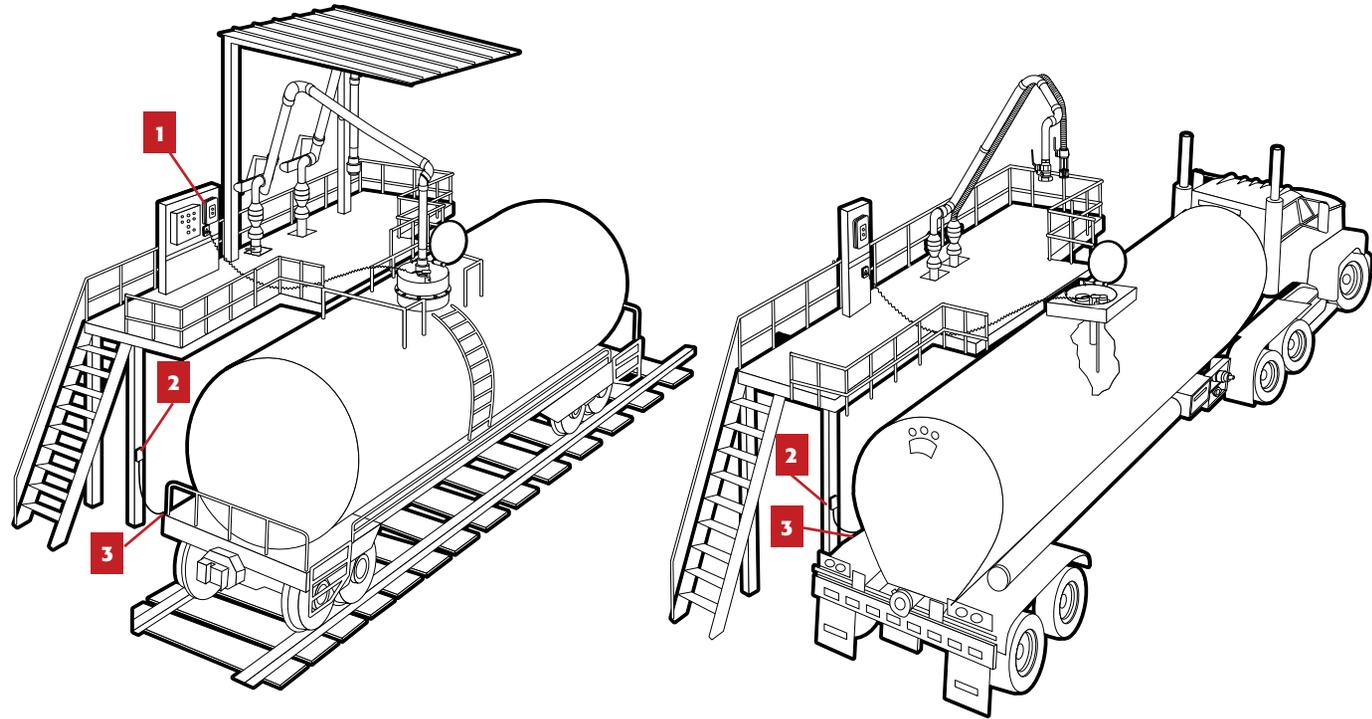
7620-7620



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.<br>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. |           |   |