

## CLS-680 Forklift Scale Display

# Old Dominion Installation Detail

This addendum is intended to serve as a supplement to the instructions in the CLS-680 Technical Manual (PN 200331) and addresses the following installation procedures:

1. Mounting location for the CLS-680 Forklift Scale Display.
2. Specific route and securing points for the coiled cable.
3. Attaching the CLS-680 Forklift Scale Display to the Low Voltage Disconnect (LVD).



Manuals and additional resources are available from Rice Lake Weighing Systems at [www.ricelake.com/manuals](http://www.ricelake.com/manuals)

Warranty information can also be found on the website at [www.ricelake.com/warranties](http://www.ricelake.com/warranties)

## Approved Mounting Location

The CLS-680 should be installed in a location that allows for free visibility and out of the way of the forklift operator. The RAM® Mounts option allows ease of installation and flexibility when mounting the CLS-680 on the forklift frame. It is recommended to install the RAM mount clamp base at the very front left of the overhead forklift frame.

The CLS-680 Forklift Scale Display can be moved to the best viewing angle for the operator by adjusting the angle of the RAM mount double socket arm that connects the clamp base to the C size ball on the back of the CLS-680.

## RAM Mounting

The following procedure shows how to use the RAM mounting option to secure the CLS-680 to a forklift frame.

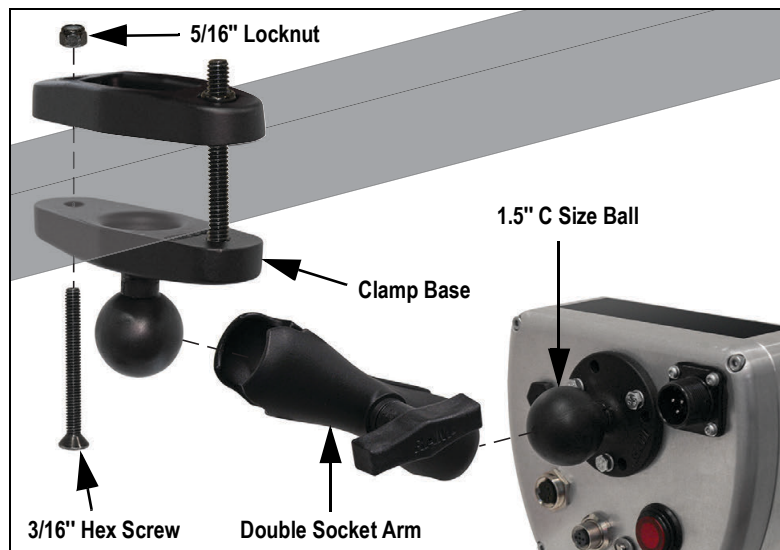


Figure 1. RAM Mounting Option

1. Secure the RAM mount clamp base with 1.5" C size ball to the forklift frame with two screws and locknuts. Tools needed for this step are a 1/2" wrench and a 3/16" hex key (Figure 1).
2. Loosely attach the RAM mount double socket arm to the 1.5" C size ball of the clamp base.
3. Position the CLS-680 1.5" C size ball into the open end of the RAM mount double socket arm and tighten down the nob until both balls are secured firmly.



**Note** Loosen and tighten the RAM mount double socket arm nob as needed to appropriately position the CLS-680 display for the forklift operator.

## Specific Route and Securing Points for the Coiled Cable

**WARNING** If the coiled cable is not properly secured, it can get caught in the forklift chain, damaging the wiring.

### Improperly Secured Cables

The cable illustrated below hangs loosely from the center of the top frame.



Figure 2. Inadequately Secured Coiled Cable

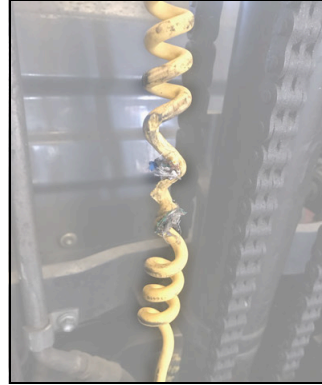


Figure 3. Detail of Damaged Cable

**Note** The extra movement in the cable allows the cable to be damaged by the moving parts of the forklift.

### Properly Secured Cables

Cables should be routed and secured so that there is as little movement as possible.

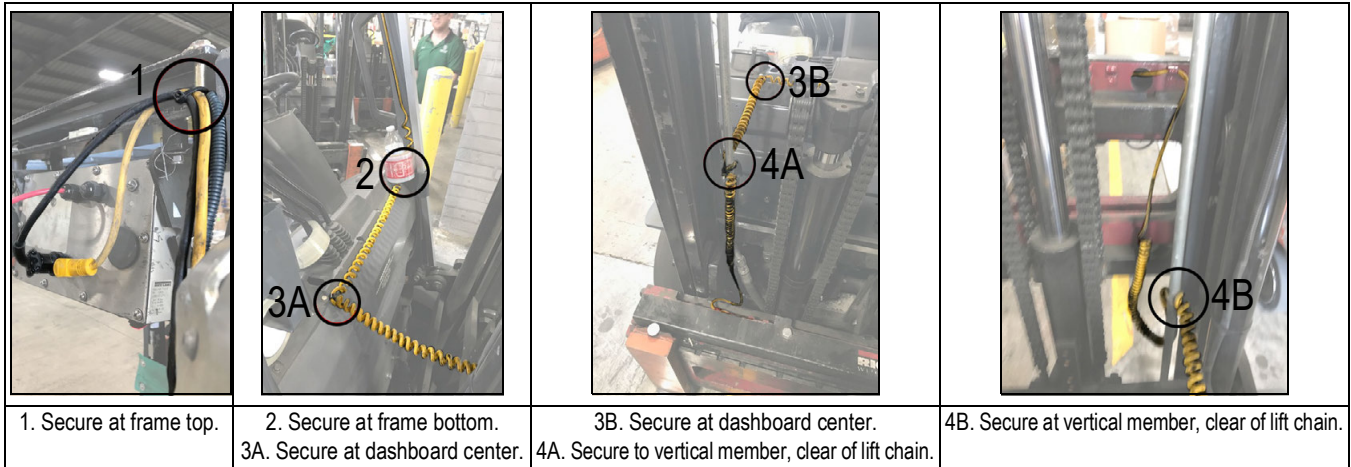


Figure 4. Proper Cable Routing and Securing

## Connect Power Cable to Low Voltage Disconnect (LVD)

1. Locate the LVD or power wire connected to the LVD wire (commonly blue, labeled power).



**Note**

The LVD should already be installed (Figure 6). LVD might be out of sight so a power wire should be available (Figure 5). If unable to locate LVD connection, consult with forklift service technician or service manager to verify LVD is installed.

2. Connect the red wire from the indicator power supply cable to LVD instead of connecting directly to battery connection.
3. Connect the black wire from the indicator power supply cable to the battery ground.
4. Connect the blue wire from the indicator power supply cable to the forklift chassis.

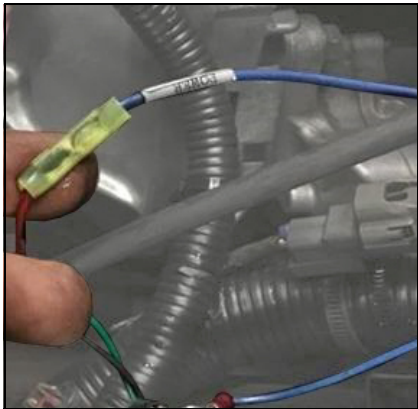


Figure 5. Connect CLS-420 Indicator Wire to the LVD

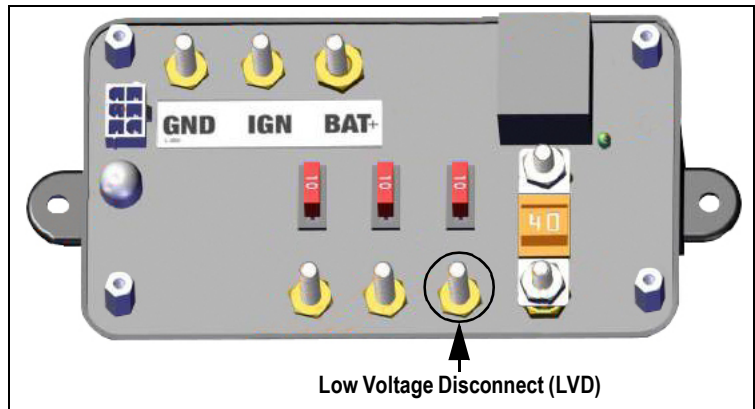


Figure 6. Purkeys Dual Shield LVD, Supply Power Terminal Location

Wire Color	Signal
Red	Low Voltage Disconnect (LVD)
Black	Negative on battery
Blue	Chassis ground

Table 1. CLS-420 Indicator Power Supply Cable Connections



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