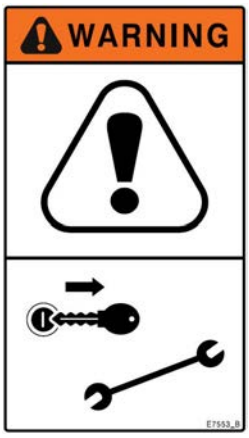
Installation of the Camera Kit - FaStack 1200

Shut down the tractor and remove the key before repairing, servicing, lubricating or cleaning the machine.

Relieve all hydraulic pressure in the hoses. Disconnect the hydraulic hoses from the tractor before going near the machine.

Securely block the machine to avoid any movement while doing the work.



Installation

1. There are 2 cameras included in this kit. One camera can be installed on the side rack (1) and the other camera can be installed on the rear (2) of the unit, as shown in in *Figure 1*.

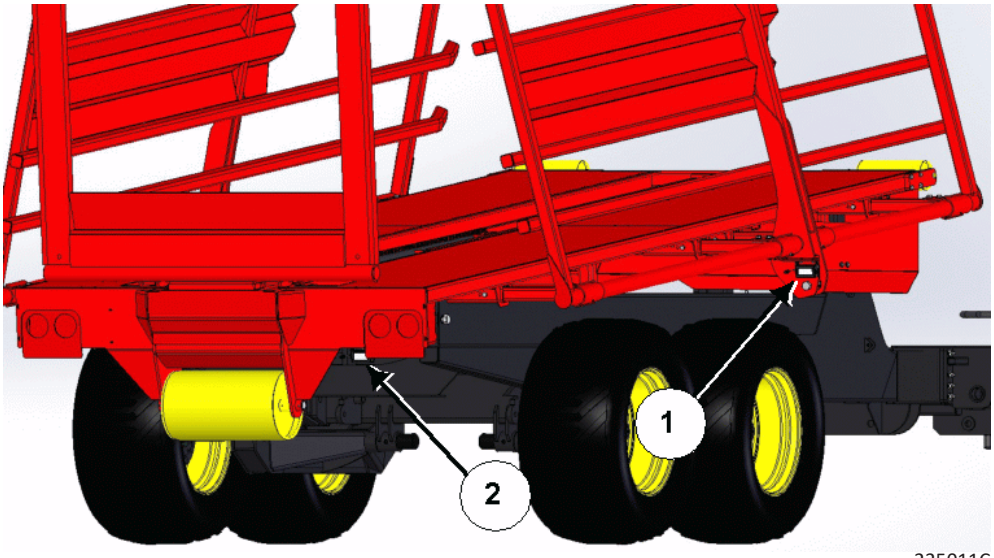


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Figure 1: Locations of camera installation

2. Install the rear camera (2) onto the rear table frame, beside the clearance light mount, on the right hand side of the unit, see *Figure 1*.
   a. Remove the 'MIR' screw (1) from the rear of the camera, see *Figure 2*.
   b. Remove the existing nut from the frame.
   c. Line up the center hole on the rear camera mount with the exisiting bolt and washer (2), ensuring the camera is pointed towards the back of the unit, see *Figure 2*.
   d. Place a 7/16" washer and a 1/4" flange lock nut (3) over the bolt and tighten, see *Figure 2*.

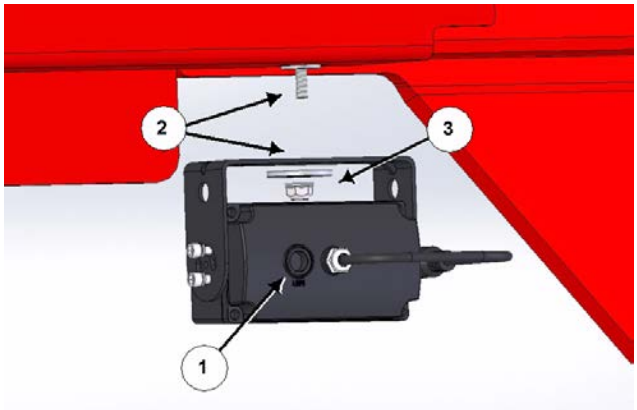

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Figure 2: Install rear camera

3. Install the side rack camera onto the side rack pivot, on the right hand side of the unit, see *Figure 1*.

   a. Remove the current grease zerk and replace with ¼-28 X 45° grease zerk (1) for added clearance, see *Figure 3*.

   b. Remove the fasteners from the side rail linkage.

   c. Line up the holes on the camera mount plate (2) with the holes in the side rack pivot, see *Figure 3*.

   d. Utilizing the existing washers, place a ½" x 4" hex bolt (3) down through each hole in the linkage and through the mount plate (2), and fasten with a ½" flange lock nut (4), see *Figure 3*. Tighten the bolts.

   e. Remove the 'MIR' screw from the rear of the camera.

   f. Line up the holes on the camera mount with the holes on the camera mount plate (1), and attach with 2 #10-24 X ¾" screws (2) and 10-24 nylock nuts (3), see *Figure 4*.

      i. Ensure that the camera is pointed towards the back of the unit.

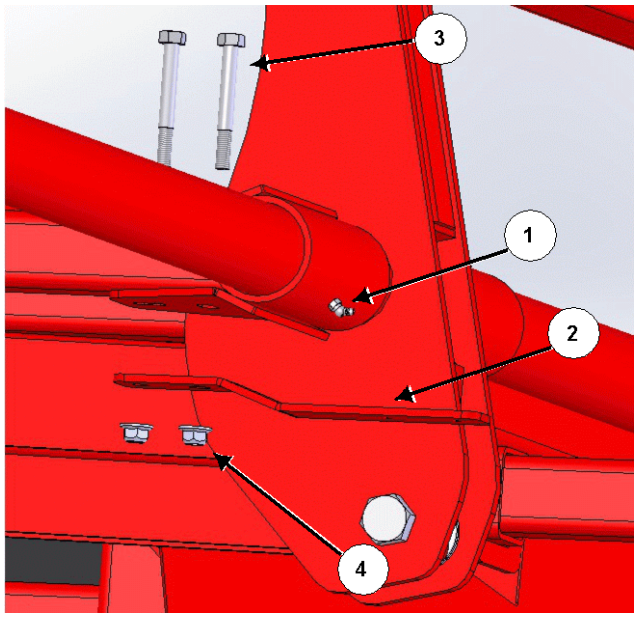

Figure 3: Install new grease zerk and camera mount plate

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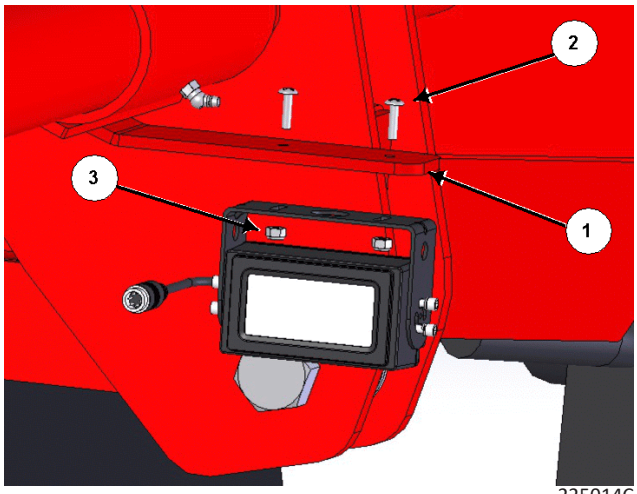

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Figure 4: Install side rack camera

4. Mount a loop clamp (1) onto the rear table frame, see *Figure 5*.

   a. Place a ¼" x 1" self-tapping screw (2) through the loop clamp and loosely attach to the frame, see *Figure 5*.

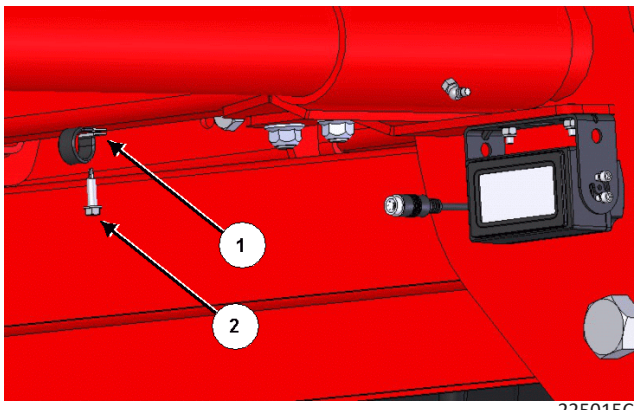

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Figure 5: Mount a loop clamp

Connecting the Monitor

1. Connect the electrical cables to the side rack camera.
   a. Use 1 x 10M cable (11) and 2 x 5M cable (14) extensions, see *Figure 6*.
      i. Note: The 10M cables have the same connectors on both ends, while the 5M cables have different connectors at each end.
   b. Feed the wiring through the loop clamp (see *Figure 5*) and route to the rear of the unit following the side rack hoses. Loop the cables around at the rear table pivot and follow the lighting harness to the front of the machine.
   c. Support and fasten the camera cables with the supplied loop clamps (1) and ¼" x 1" self-tapping screws (7) as needed, see *Figure 6*. Secure with cable ties.
   d. Once all of the wires are in the desired locations, tighten the screw(s) holding the loop clamp(s).

2. Connect the electrical cables to the rear camera.
   a. Use 1 x 10M cable (11) and 1 x 5M cable (14) extensions, see *Figure 6*.
   b. Route the wiring across the rear of the unit and follow the lighting harness to the front.
   c. Secure the camera cables with cable ties.
   d. Once all of the wires are in the desired locations, tighten the screw(s) holding the loop clamp(s).

3. Route the cables into the cab of the tractor, ensuring they do not come into contact with any moving parts.

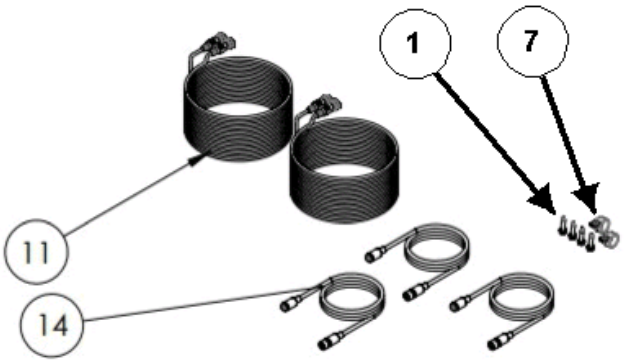

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Figure 6: Camera cables and clamps

4. Mount the monitor in the tractor cab.
   a. Attach the monitor (12) to the extendible mount (13), see *Figure 7*.
   b. Secure the mount onto the desired location on the windshield using the suction cup, and adjust the mounting angle to allow optimum driver viewing comfort.
      i. Do not install the monitor where it may obstruct the operator's view.
5. Connect the rear camera cable extension to the blue (CH3) connector on the monitor power harness (18), see *Figure 7*.
6. Connect the side rack camera cable extension to the either the white (CH1) or brown (CH2) connector on the monitor power harness (18), see *Figure 7*.
7. Connect the switch (15) to the monitor, and connect the system to power, see *Figure 7*.
   a. Connect the blue wire (port #3) on the monitor power harness (18) to the switched power lead on switch power harness.
   b. Connect the switch power harness to the monitor power harness (18) as per *Figure 7*.
   c. Connect the power (red) 12V+ wire on the monitor power harness (18) to the 12 volt ignition power, see *Figure 7*.
   d. Connect the ground (black) line on the monitor power harness (18) to the chassis ground.
      i. Connecting the red and black wires will power the cameras and the monitor.
   e. Connect the power connection on the switch to the tractor.

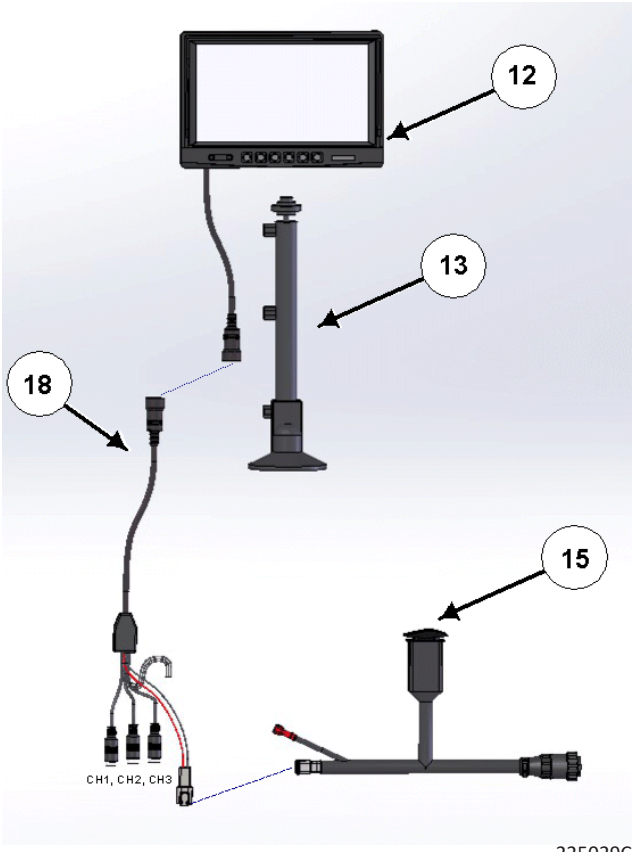

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Figure 7: Monitor and electrical components

Using the Camera Kit

1. The 2 newly installed cameras allow the operator to have better visibility when lining up to a previous stack (side rack camera), as well as give an indication of distance to the previous stack for tight fit during unload (rear camera).

2. Refer to the monitor Product Manual/ Installation Instructions for information on the the operation of the monitor and cameras.

3. Use the switch (15 - *Figure 7*) in the tractor cab to switch to viewing the rear camera with the grid-lines turned on, as shown in *Figure 8*.

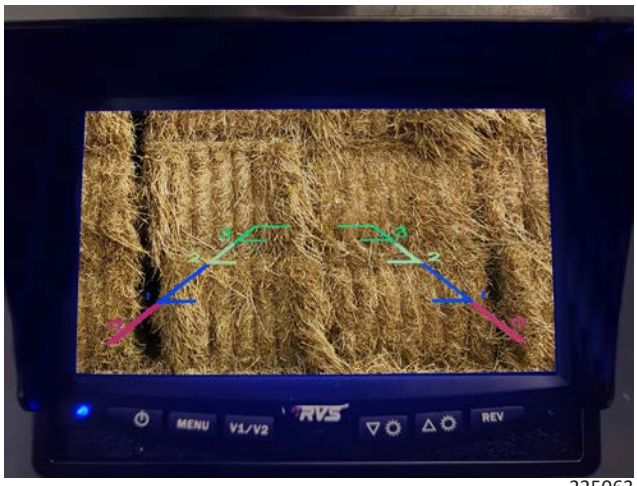

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Figure 8: Monitor showing grid-lines