

# Installation of Electric Selector Valve on Towed TMR Mixers

## - 3 Remote to 2 Remote

### WARNING

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.

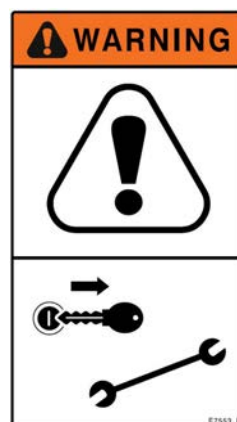
Securely block the machine to avoid any movement while doing the work.

### DANGER

DO NOT enter the tub while the mixers are turning.

Entering the tub when the mixers are turning will result in death or serious injury.

DO NOT contact the rotating screws.



This kit includes parts for the installation of the electric selector valve on both AMX 520T and AMX 690T/AMX 850T units. Some parts differ between the units. The difference are noted in this instruction.

The new electric selector valve (ESV) is used to divert the hydraulic flow between the unload conveyor drive motor and the conveyor lift/shift cylinder.

### AMX 520T:

1. Install the 6 8M8-8MJ hydraulic adapter fittings (1) onto the electric selector valve (2), as shown in *Figure 1.1*.
2. Fasten the ESV (2) onto the mounting bracket (3) using  $\frac{1}{4}$ " x  $3\frac{1}{4}$ " hex bolts and  $\frac{1}{4}$ " flange lock nuts (4), as shown in *Figure 1.1*.
3. Fasten the mounting bracket (3) to the front right-hand (RH) or left-hand (LH) cross member under the tub floor using a  $\frac{3}{4}$ " x  $1\frac{3}{4}$ " hex bolt and a  $\frac{3}{4}$ " flange lock nut (5), as shown in *Figure 1.1*.
  - a. Fasten the mounting bracket to the same side of the machine as the conveyor drive motor.

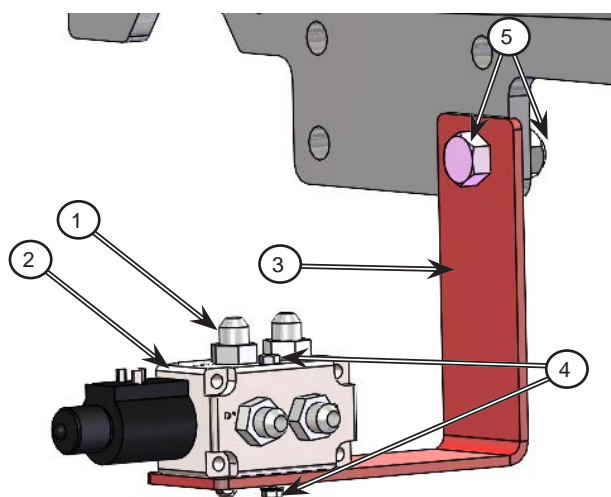


Figure 1.1: Fasten the ESV onto the mounting bracket (RH side shown)

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4. Install the hydraulic elbow fittings (1) onto the  $\frac{3}{8}$ " x 76" (2) and  $\frac{3}{8}$ " x 68" (3) hydraulic hoses and fasten them to the top ports on the ESV, as shown in *Figure 1.2*.

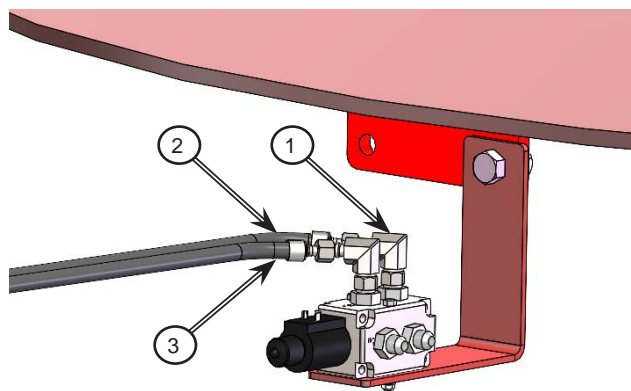


Figure 1.2: Connect the hydraulic hoses

5. Disconnect the hoses that are currently connected to the conveyor lift/shift cylinder. Remove cable ties as needed.
  - a. These hoses will no longer be used and can be removed from the non-abrasive cover and removed from the machine, if desired.
6. Connect the newly installed hydraulic hoses to the conveyor lift/shift cylinder.
  - a. As an example, *Figure 1.3* shows the connection points (1) on a LH flip up conveyor lift cylinder.
  - b. Route the hoses in such a way as to keep them away from any moving parts. Use cable ties as required.

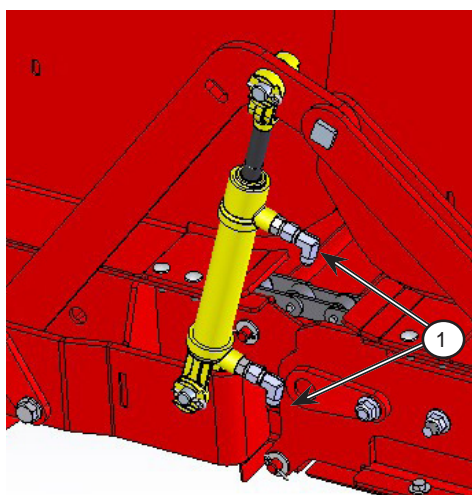


Figure 1.3: Lift cylinder on a LH flip up conveyor

7. The ports on the ESV that are on the side closest to the centerline of the machine (1) connect to the conveyor drive motor; see *Figure 1.4*.
  - a. Disconnect the hydraulic hoses that are connected to the conveyor drive motor from the bulkhead fittings on either the LH or RH side of the mixer frame.
  - b. Connect these hydraulic hoses to the correct ports (1) on the ESV.
    - i. Use the  $\frac{1}{2}$ " x 17" hydraulic extension hoses as needed.

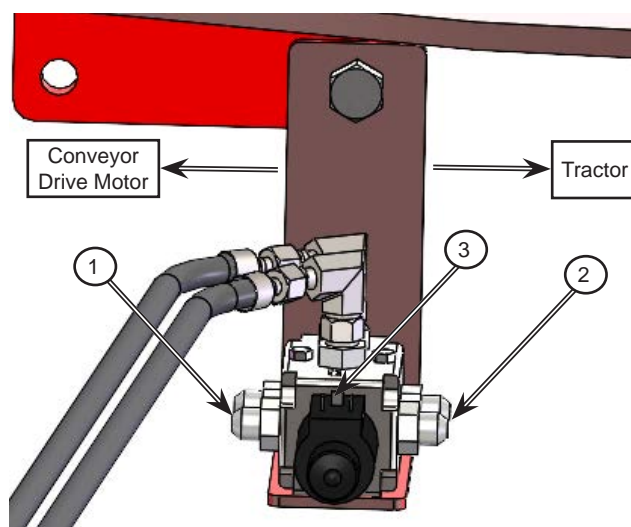


Figure 1.4: ESV connection points

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8. The P1 and P2 ports, on the opposite side (2), connect to the tractor; see *Figure 1.4*.
  - a. Disconnect the hydraulic hoses from the fittings on the opposite side of the bulkhead.
  - b. Connect these hydraulic hoses to the correct ports (2) on the ESV.
9. Connect the selector valve electrical harness to the power connection (3) on the ESV; see *Figure 1.4*.
10. Route the selector valve electrical harness from the ESV through the non-abrasion cover, the hose holder and into the tractor cab.
  - a. Route the cable in such a way as to keep it away from any moving parts. Use cable ties as required.
11. Connect the electrical harness to the selector switch in the tractor cab.
  - a. Connect the harness to the positive and negative terminals of a 12 volt power supply.
12. The in-cab switch is used to divert the hydraulic flow between the unload conveyor drive motor and the conveyor lift/shift cylinder.

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### AMX 690T and AMX 850T:

1. Install the 6 8M8-8MJ hydraulic adapter fittings (1) onto the electric selector valve (2), as shown in *Figure 2.1*.
2. Fasten the ESV (2) onto the mounting bracket (3) using  $\frac{1}{4}$ " x 3- $\frac{1}{4}$ " hex bolts and  $\frac{1}{4}$ " flange lock nuts (4), as shown in *Figure 2.1*.
3. Fasten the mounting bracket (3) to the top of the right-hand (RH) or left-hand (LH) frame gusset, under the tub floor, using  $\frac{5}{16}$ " x 1" hex bolts (5) and  $\frac{3}{4}$ " flange lock nuts, as shown in *Figure 2.1*.
  - a. Fasten the mounting bracket to the same side of the machine as the conveyor drive motor.
4. Install the hydraulic elbow fittings (1) onto the  $\frac{3}{8}$ " x 76" (2) and  $\frac{3}{8}$ " x 68" (3) hydraulic hoses and fasten them to the top ports on the ESV, as shown in *Figure 2.2*.
5. Disconnect the hoses that are currently connected to the conveyor lift/shift cylinder. Remove cable ties as needed.
  - a. These hoses will no longer be used and can be removed from the non-abrasive cover and removed from the machine, if desired.
6. Connect the newly installed hydraulic hoses to the conveyor lift/shift cylinder.
  - a. As an example, *Figure 2.3* shows the connection points (1) on a LH flip up conveyor lift cylinder.
  - b. Route the hoses in such a way as to keep them away from any moving parts. Use cable ties as required.

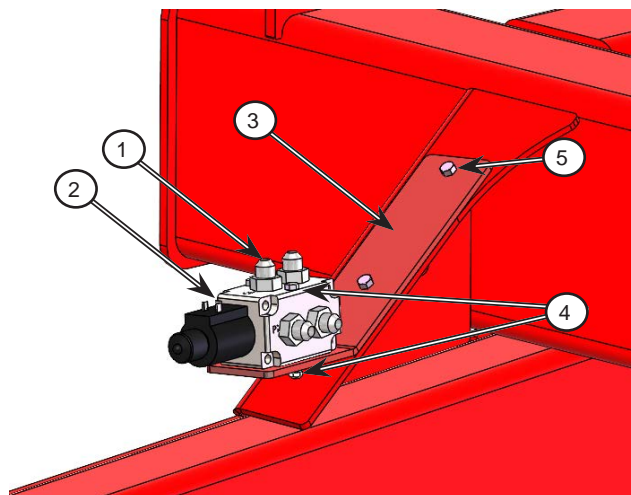


Figure 2.1: Fasten the ESV onto the mounting bracket (RH side shown)

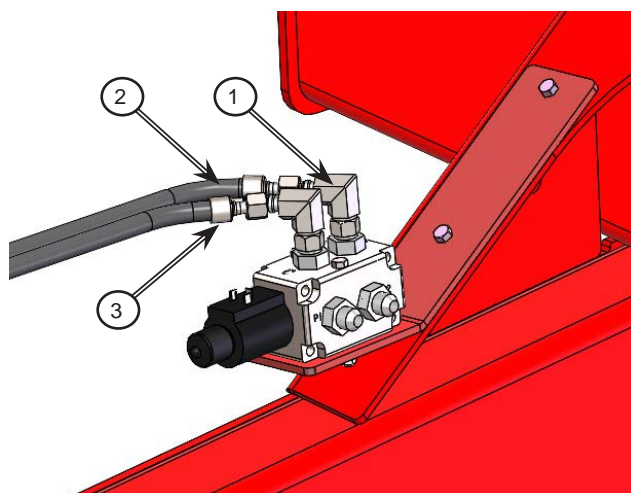


Figure 2.2: Connect the hydraulic hoses

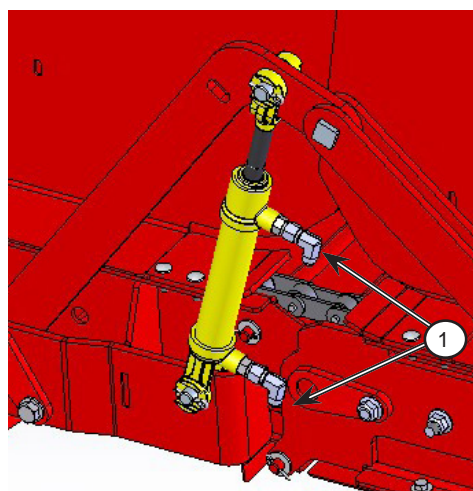


Figure 2.3: Lift cylinder on a LH flip up conveyor

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7. The ports on the ESV that are on the side closest to the centerline of the machine (1) connect to the conveyor drive motor; see *Figure 2.4*.
  - a. Disconnect the hydraulic hoses that are connected to the conveyor drive motor from the bulkhead fittings on either the LH or RH side of the mixer frame.
  - b. Connect these hydraulic hoses to the correct ports (1) on the ESV.
    - i. Use the ½" x 17" hydraulic extension hoses as needed.
8. The P1 and P2 ports, on the opposite side (2), connect to the tractor; see *Figure 2.4*.
  - a. Disconnect the hydraulic hoses from the fittings on the opposite side of the bulkhead.
  - b. Connect these hydraulic hoses to the correct ports (2) on the ESV.
9. Connect the selector valve electrical harness to the power connection (3) on the ESV; see *Figure 2.4*.
10. Route the selector valve electrical harness from the ESV through the non-abrasion cover, the hose holder and into the tractor cab.
  - a. Route the cable in such a way as to keep it away from any moving parts. Use cable ties as required.
11. Connect the electrical harness to the selector switch in the tractor cab.
  - a. Connect the harness to the positive and negative terminals of a 12 volt power supply.
12. The in-cab switch is used to divert the hydraulic flow between the unload conveyor drive motor and the conveyor lift/shift cylinder.

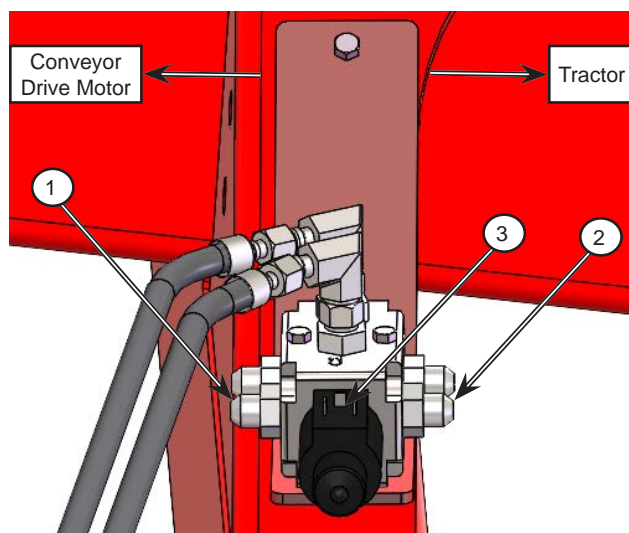


Figure 2.4: ESV connection points