RoadSaver Fines Feeder Plumbing Guide

Etnyre International
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Cautions and Warnings

Always read all instructions thoroughly and familiarize yourself with the equipment before operating or attempting repairs or service.

Observe all caution and warning statements in the applicable manual and on the equipment.

Always use extreme caution when working with any pressurized system. Always be aware of other persons and/or equipment in the immediate area and the hazards involved. Be prepared to immediately shut down the truck and/or hydraulic system if required, especially during initial startup and testing.

The equipment must be assembled and serviced by a trained mechanic or technician. Ensure only properly trained individuals should operate the equipment.

Always use personal protection equipment, such as eye and ear protection, when indicated by the instructions or by the work environment.

Always operate equipment safely and within its rated capacity and performance range. Hydraulic fluid in the human bloodstream can be fatal. If hydraulic fluid penetrates the skin under pressure, seek medical attention immediately! Hydraulic oil, solvents, and pipe sealers may cause skin irritation and rashes. Avoid lengthy exposure to these materials. Wash your hands thoroughly after contact with oils, solvents, and other chemicals. Remove clothing that is saturated with oil.

Do not operate equipment that is damaged or in need of maintenance. Repair equipment as soon as problems are identified.

Use tools that are suited to the task, and keep your tools in good repair.

Use proper lifting equipment when moving or installing heavy components.

Keep your work area clean and safe. Always clean up any spills immediately and properly dispose of the material in the designated refuse container.

Always shut off the vehicle engine and disconnect pump electrical power before working on the hydraulic system.

Etnyre International is not responsible or liable for injury, damage, or loss caused by improper installation by the end user, misuse of the equipment, lack of maintenance, accidents, or failure to follow instructions. In cases where equipment application was determined by the end user, Etnyre International is not responsible or liable for injury, damage, or loss caused by misapplication of this equipment.

Specifications, parts descriptions, illustrations, and instructions in this manual were accurate at the time of publication. Etnyre International reserves the right to discontinue products and to change specifications and/or designs at any time without notice and without incurring any obligation.

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Reversing the plumbing will cause the Fines Feeder to bypass!

The picture below shows the plumbing in the correct configuration. The top port (Stamped “IN”) connects to the Quick Disconnect. The bottom port (Stamped “OUT”) connects to the tee fittings.

Proper plumbing allows the vibrator to free wheel when shut off.

The hydraulic motor connects to the vibrator assembly and operates at a high speed. When the hydraulic flow is stopped the motor is now driven by the vibrator until the inertia stops. This action requires an internal check valve that opens to allow the hydraulic oil to bypass.

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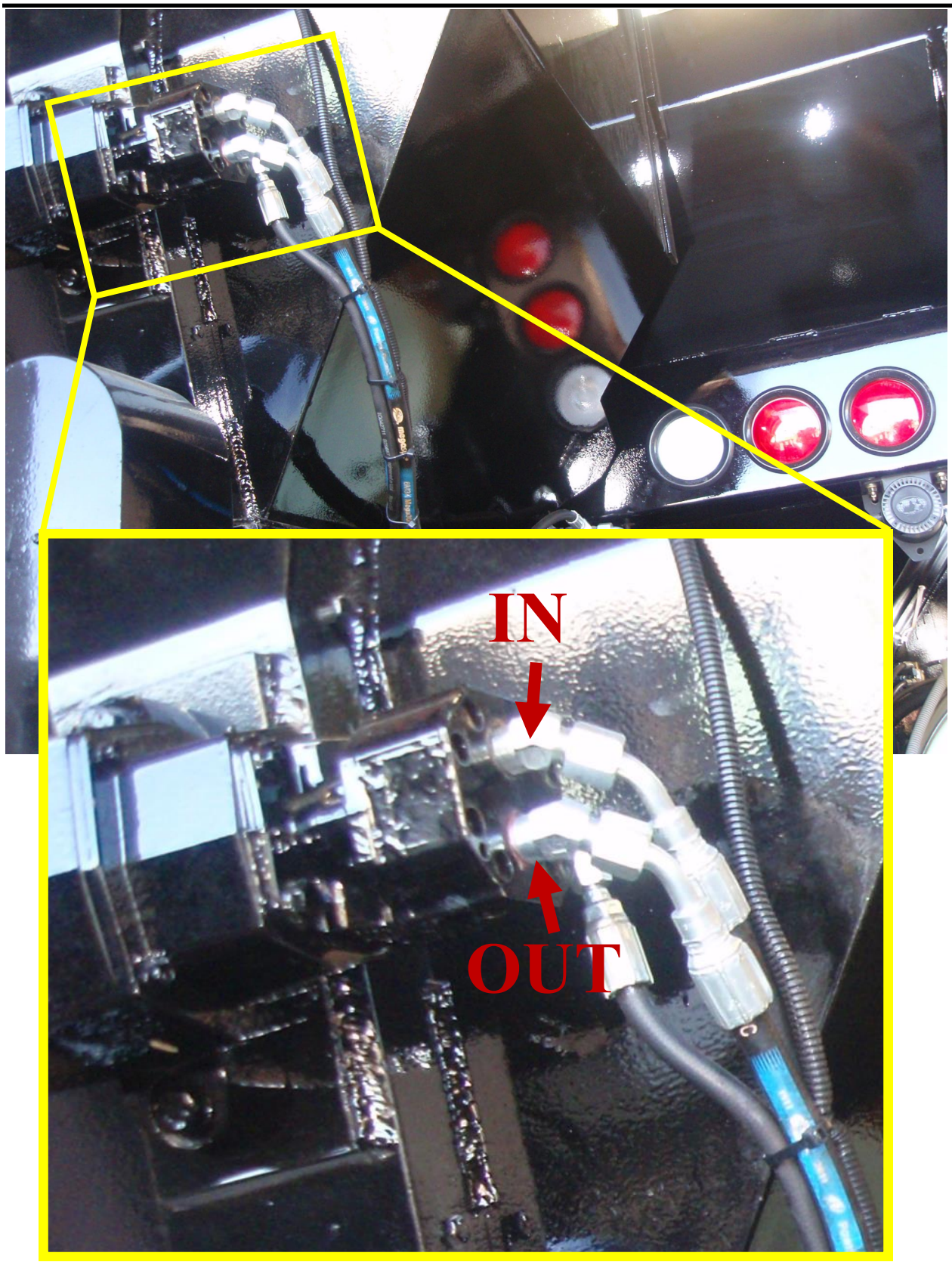

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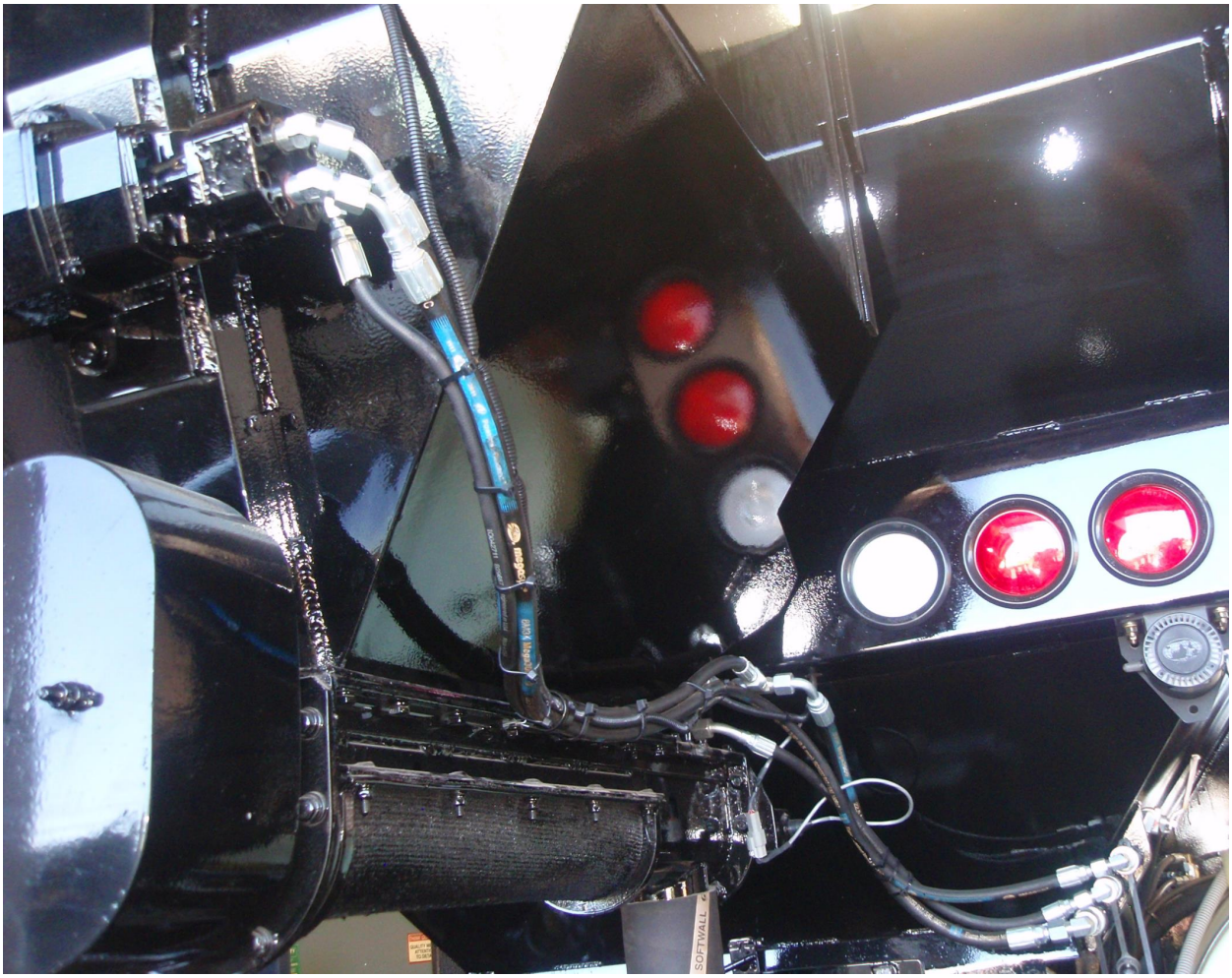
Improper Hose Routing

Reversing the plumbing will cause the Fines Feeder to bypass!

The picture below shows the plumbing in the **incorrect** configuration. The top port (Stamped “IN”) is connected to the Tee fitting. The bottom port (Stamped “OUT”) is connected to the Quick Disconnect. **THIS IS WRONG!**



Improper plumbing prevents the vibrator from Operating correctly.

When the plumbing is backwards the pressure is directed to the face of the check valve and dumps oil around the motor and will result in weak to no vibration. Flowing oil over the check valve MAY cause the check valve to stick open. The fix is simple and explained in greater detail in the following pages.

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Removal of Free Wheel Check valve

The pictures below show the check valve being removed while on the work bench but this can also be accomplished with ease on the machine.

Do not allow foreign material to enter into the hydraulic motor!

Inspecting the check valve

1. Locate the plug on the top of the motor. (Towards the Fines Feeder lid)
2. Remove the plug as shown here. There is a spring under the plug that has very low spring force.

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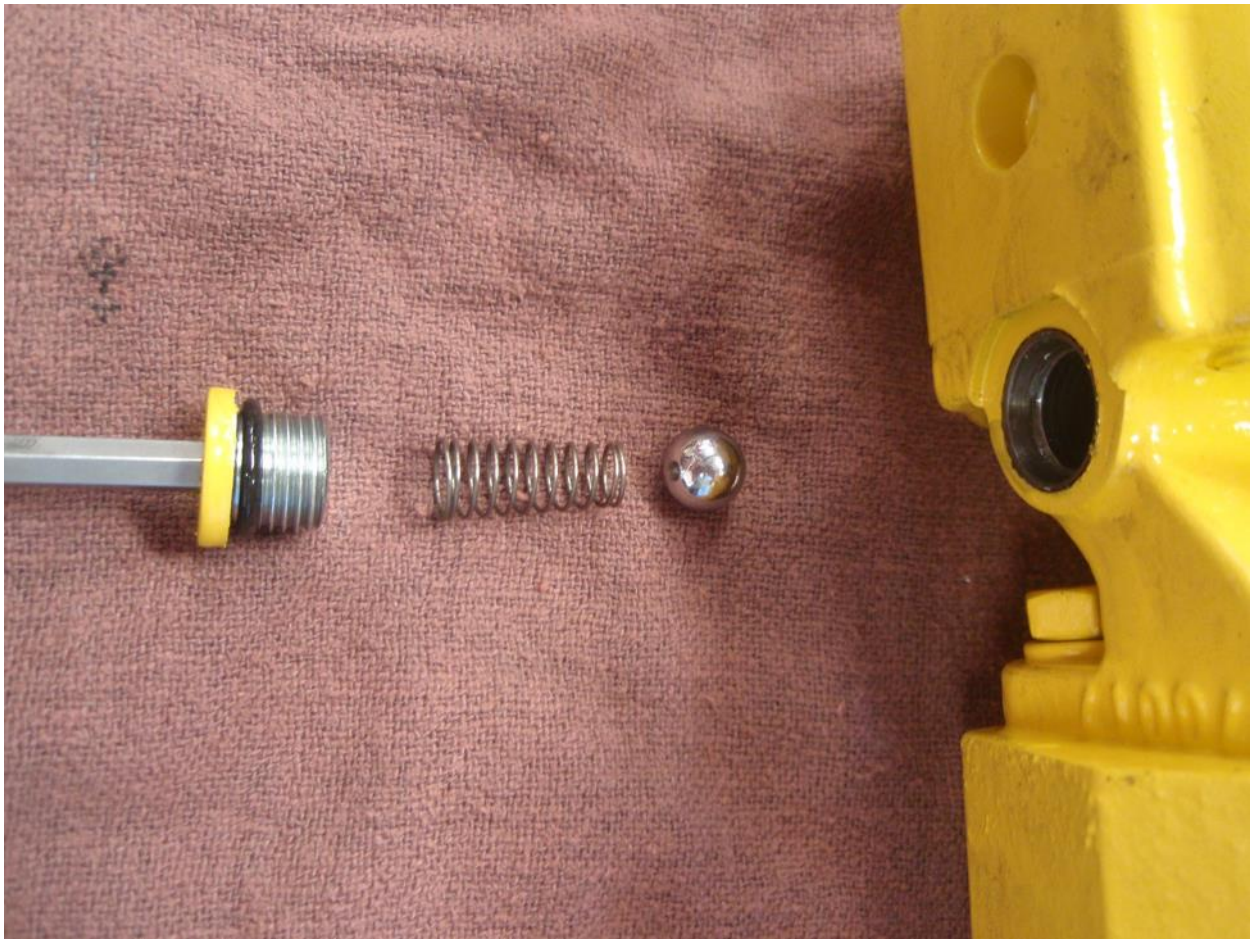
Removal of Free Wheel Check valve



Inspecting the check valve

1. Alan head plug
2. Tapered spring
3. Check ball

If removal while on the machine use a small magnet to extract the check ball from the cavity.

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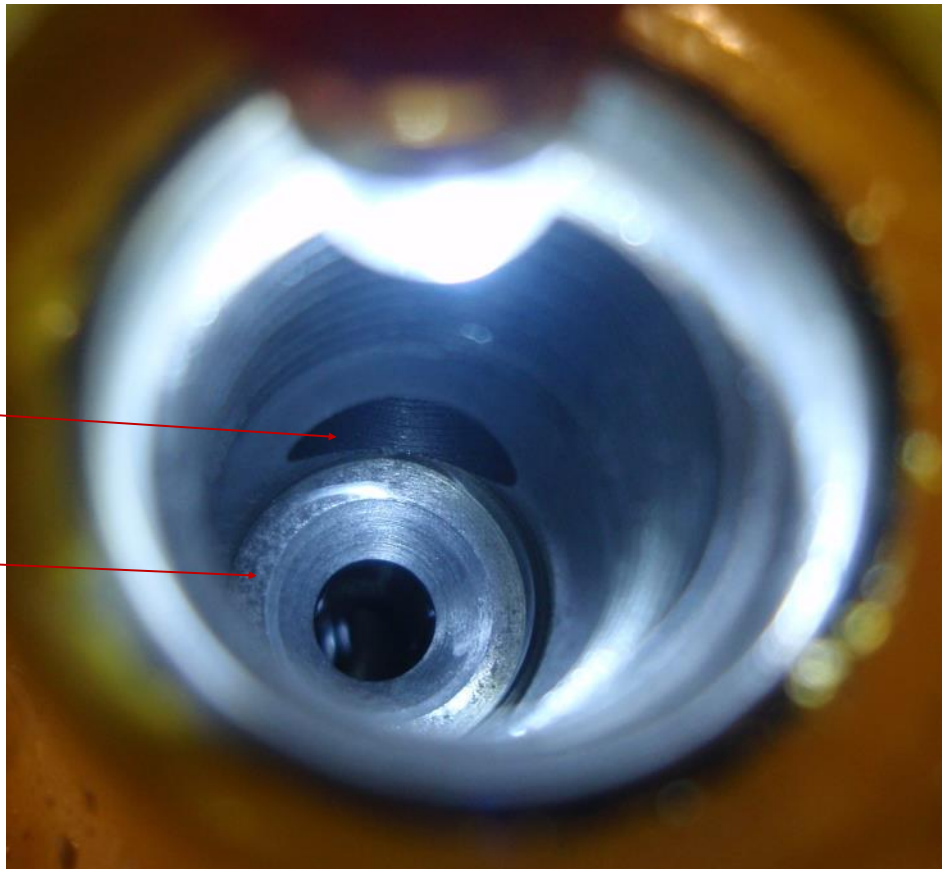
1. Visually check that the cavity is clean and that the check ball is not stuck in the supply port shown at the top of this picture.



The check ball will not "stick" in the supply port. It can be pushed into the supply port by high surges of oil flow and will be held there by the check spring. Simply removing and reinstalling will resolve the issue.

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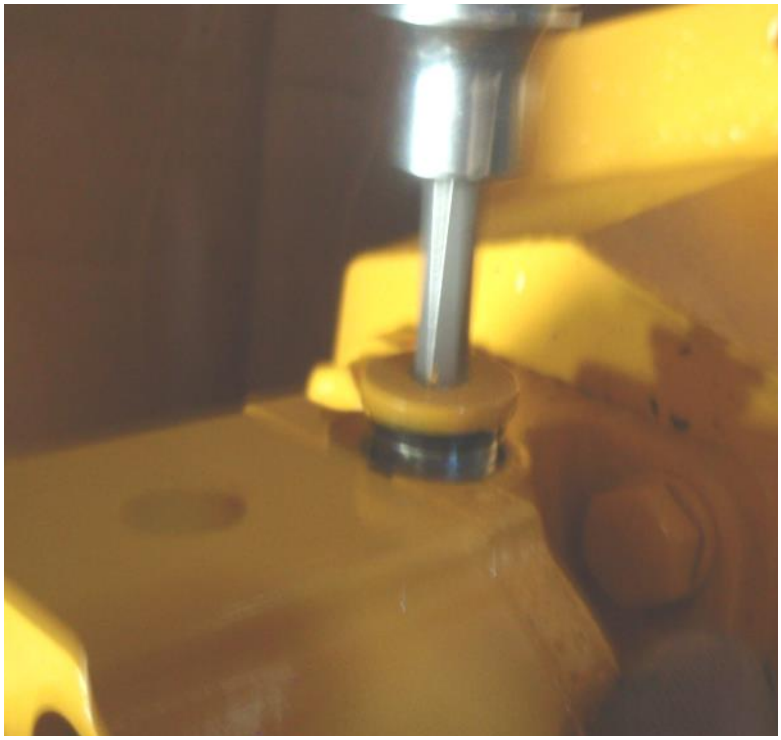
Insert the ball and spring as shown here.

Reinstall the plug.



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