



830414 [Supercharge Line Elimination Kit]

Instruction Guide

Kit consists of all necessary fittings and hoses to complete conversation. Fits all IH 86 & 30 Series tractors with open center hydraulics. Tractors equipped with power priority hydraulics (PPH) do not use the supercharge circuit. The supercharge system uses excess hydraulic flow from the hitch and auxiliary circuits to supply the MCV pump. The supercharge system minimizes MCV pump cavitations during cold weather.

Some tractors may develop and air pocket in the supercharge line when the supercharge system receives no flow from the hitch/auxiliary value circuit.

Items contributing to air entry into the supercharge circuit can include:

- Worn seals and O-rings
- Cracked hydraulic tube flares
- Scored hydraulic valve components

If supercharge flow forces the air pocket into the MCV, one or several complaints can result. Possible complaints are:

- Momentary hard steering
- Momentary increase in clutch depression effort
- Momentary decrease in power braking
- Unexplained downshifting of the torque amplifier (TA)
- Unexplained flashing of the TA lubrication tell-light
- MCV hydraulic functions may respond slowly when the tractor is started

If you experience any of these complaints, the MCV supercharge system may be at fault. To isolate the supercharge system:

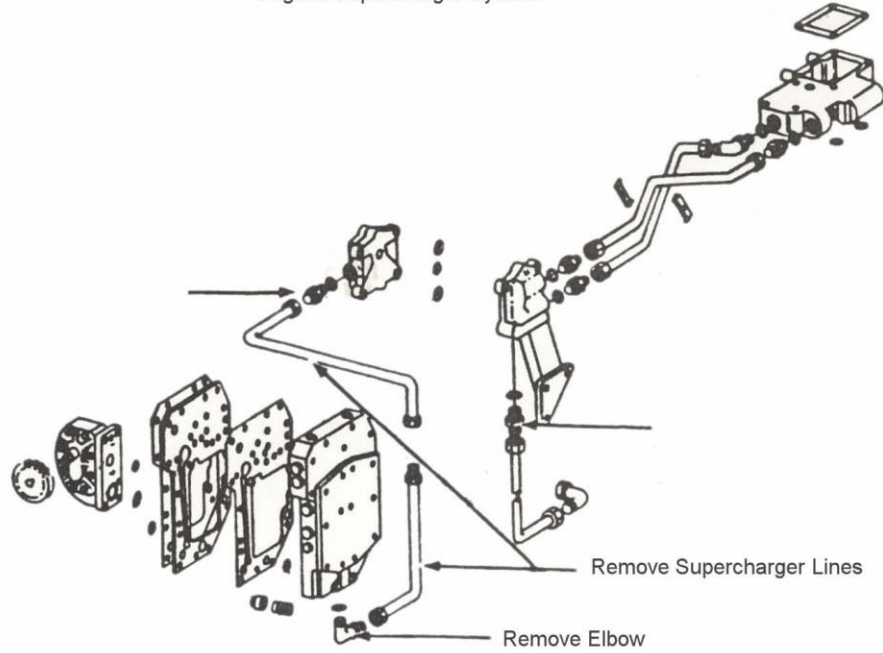
- Disconnect the supercharge line from the MCV and cap the fitting at the MCV
- Attach a hose to the line and route the supercharge flow to the reservoir. Do not cap the supercharge line. If disconnecting the supercharge line eliminates the complaint, air is entering the MCV circuit from the supercharge circuit
- Install supercharge elimination kit



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Original Supercharger System



Supercharger System After Rework

