

TECHNICAL SERVICE BULLETIN	
ISSUE DATE: 04/15/20	TSB NUMBER: TSB-202
HAZARD / URGENCY RATING	
X	DANGER - Physical harm is possible if TSB is not observed or followed
X	WARNING - Equipment damage is possible if TSB is not observed or followed
X	CAUTION - Essential issue affecting operation, service, parts or installation
X	INFORMATIONAL - Advisory which may be of interest

APPLICABLE EQUIPMENT:

ALL ROAD VEHICLES USING RAFNA RAIL GEAR WITH A R-460 REAR UNIT INSTALLED



SUMMARY:

THE ORIENTATION OF THE PO CHECK VALVES ON THE CYLINDER MAY BE REVERSED. THIS WOULD BE “LOCKING” THE FLUID WHEN IT IS IN THE ROAD POSITION AND NOT THE RAIL.

IMPACT:

IMPROPER ORIENTATION OF THE PO CHECK VALVE REMOVES THE SECONDARY FAIL SAFE WHEN THE GEAR IS IN THE RAIL POSITION AND GIVES THE GEAR THE POTENTIAL TO COLLAPSE IN THE CASE OF A HYDRAULIC FAILURE.

ACTION:

PO CHECK VALVE ORIENTATION IS TO BE OBSERVED AND ENSURE IT IS BEING LOCKED WHEN IN THE RAIL POSITION AND NOT THE ROAD. IF IT IS CORRECTLY ORIENTED, PROCEED USING THE VEHICLE AND GEAR AS USUAL. IF THE VALVE IS ORIENTED INCORRECTLY OR YOU FEEL YOU ARE UNSURE, PLEASE SEE STEPS BELOW AND VISUAL AIDS TO COMPARE AND CORRECT.

PROCEDURE:

1. LOCATE THE PO CHECK VALVE.
2. INSPECT ORIENTATION OF THE CHECK VALVE. CHECK VALVE SHOULD ALWAYS BE CONNECTED TO THE BLIND PORT OF THE CYLINDER.
3. IF THIS IS NOT THE CASE, ENSURE THE RAIL GEAR IS LOCKED IN THE ROAD POSITION OR SUPPORTED. REMOVE THE CHECK VALVE AND ORIENT CORRECTLY IN ORDER TO ENSURE THE SECONDARY LOCKING SYSTEM WILL FUNCTION PROPERLY IN THE CASE OF HYDRAULIC FAILURE. (SEE PHOTOS BELOW FOR VISUAL AID AND CORRECT ORIENTATION)
4. ONCE CORRECTLY ORIENTED, ENSURE ALL HYDRAULIC FITTINGS ARE TIGHT THAT HAD TO BE LOOSENED.
5. ROTATE THE RAIL GEAR BETWEEN THE ROAD AND RAIL POSITIONS, CHECKING FOR HYDRAULIC LEAKS AND ANY INTERFERENCE/RUBBING OF THE VALVE OR HOSE.
6. CHECK HYDRAULIC FLUID LEVELS AND TOP OFF IF NEED BE FROM LOSS.
7. VEHICLE CAN NOW BE USED AS USUAL.





FOR ANY QUESTIONS OR CONCERNS, PLEASE CONTACT JAKE SANUTE AT 570-441-6988.

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