Service Manual

WLS 422ZX

Service Manual - WLS 422ZX

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Section 3 - Routine Maintenance

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Section C - Electrics

Section E - Hydraulics

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Harness Data

Harness

Main Wiring Harness

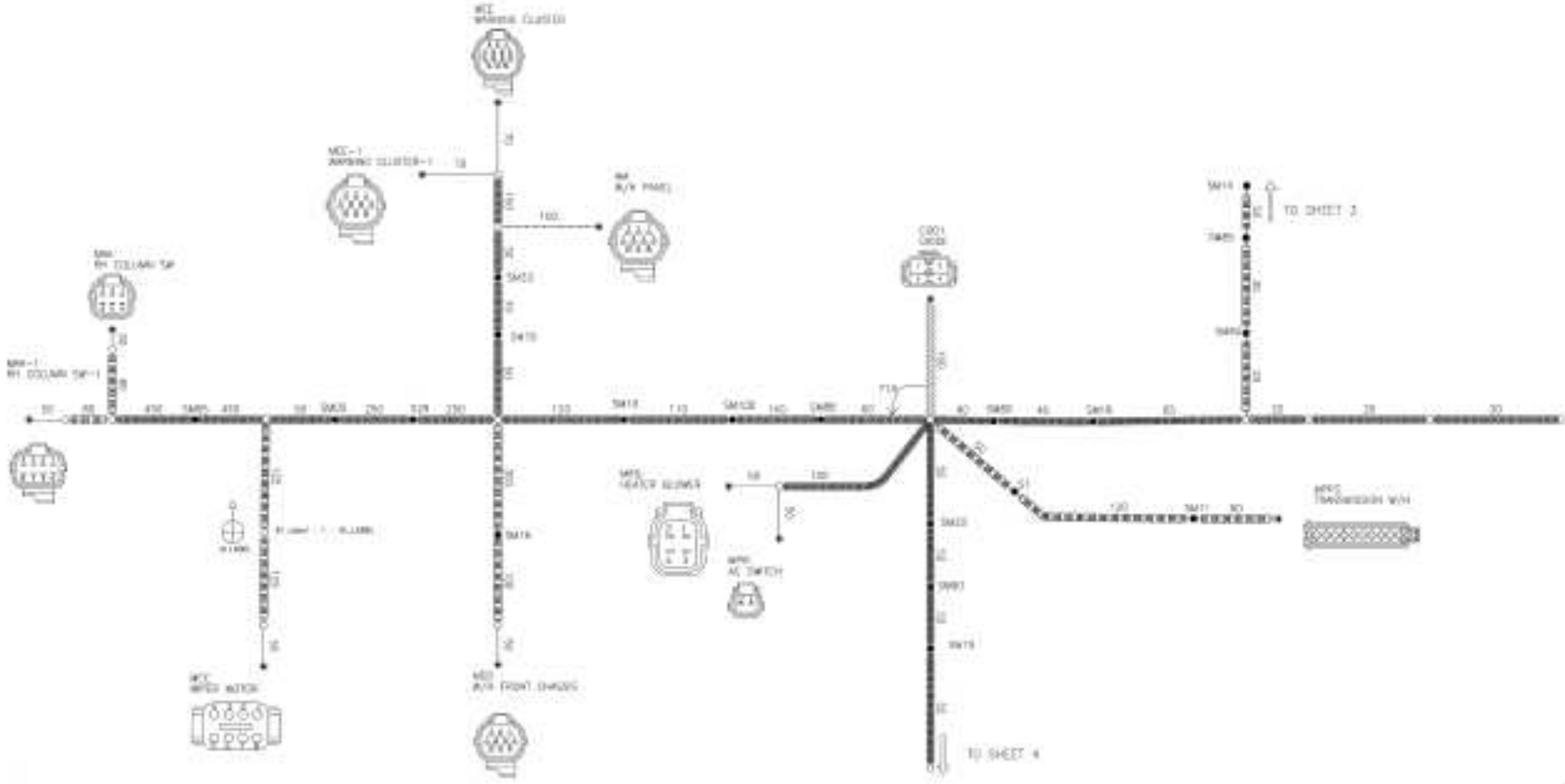


Fig 36. 335/B2994 (Sheet 1 of 8)

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Display

The Electronic Monitoring System (EMS) will display an error code in the event of a fault developing in the transmission system.

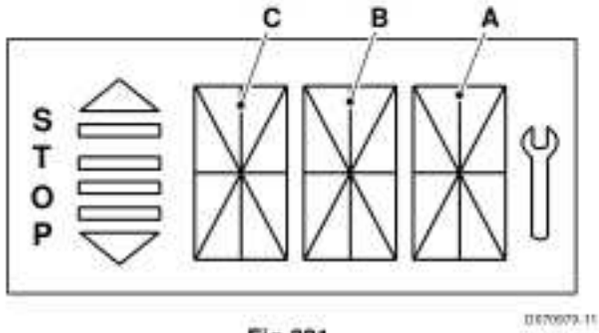


Fig 321.

Item	Description
A	Right Digit
B	Central Digit
C	Left Digit (Not in use)

Indications

Table 3.

Symbol	Meaning	Remarks
V N R	Forward Neutral Reverse	Display of the driving direction on the right digit.
1, 2, 3, 4	Display of engaged gear on the central digit.	
NN	Not Neutral. Waiting for neutral after power up or a severe fault.	To engage a gear, first move shift lever into the neutral position before the electronics allows to engage a gear again.
**	Cold-start phase display.	Transmission remains in neutral.
Flashing bars	Downshifting mode active.	
1 Bar (special)	Manual mode 1st gear	
2 Bars	Manual mode 2nd gear	
3 Bars	Manual mode 3rd gear	
4 Bars	Manual mode 4th gear	
4 Bars and 2 Arrows	Automatic mode	automatic up- and down shiftings.
Spanner	At least one fault is active	Select neutral to get fault code displayed

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Input Assembly

If the crown-wheel or the input-pinion are damaged, you must replace both components. When there is a new installation of a complete set of bevel-gears, make a record of the mating numbers of the input-pinion and the crown-wheel.

The following procedure must be done accurately. An inaccurate measurement can cause an incorrect contact pattern, which will require an additional disassemble and reassemble of the input-pinion and differential. Refer to ⇨ *Contact Patterns (🗋 F-149)*.

1 Read the dimension **I** in the axle drive-housing.

For example, the dimension = 182.80mm.



P028400-73

Fig 421.

2 Read the dimension **II** on the pinion.

For example, the dimension = 148.00mm.

The pinion dimension without a '+' or '–' deviation value	148.0mm
The pinion dimension with a + 0.1 deviation value	148.1mm
The pinion dimension with a 0.1 deviation value	147.9mm



P028400-158

Fig 422.

3 Calculate the dimension **III** (bearing width).

For example, the dimension = 33.60mm.

4 Calculate the shim dimension:

Dimension **I**	182.80mm
Dimension **II**	-148.00mm
Dimension **III**	-33.60mm
Difference = shim (S)	S = 1.20mm



P028400-159

Fig 423.

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6 Insert the plug assembly in the inlet port. ⇨ *Fig 94. (E-72)*.

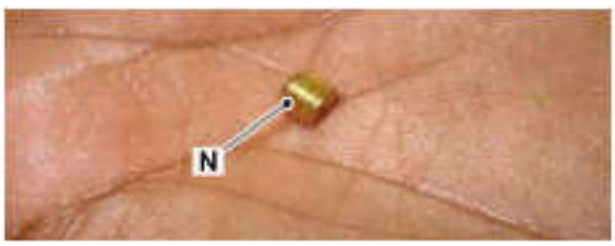
7 Torque the plug to 42 Nm.



Fig 95.

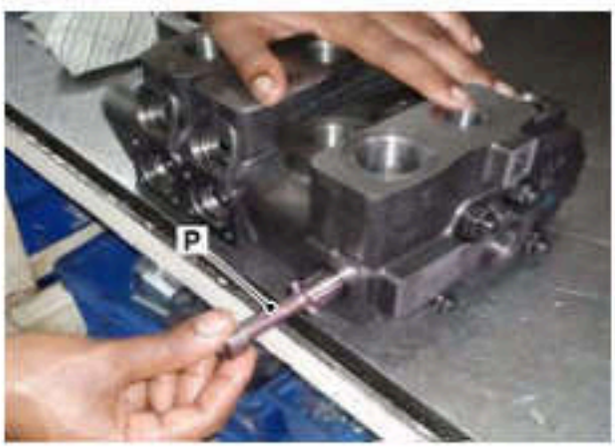
Priority Inlet Spool Assembly

1 Insert orifice **N** (0.75 mm Dia) in the spool.



2 Lubricate the spool cavity with hyspin VG46.

3 Insert the spool **P** into the spool cavity.



4 Make sure that the orifice face should go inside.

5 Install the plug **Q** into the spool cavity.



Fig 96.

6 Torque the plug to 24 Nm.



Fig 97.

Main Relief Valve (MRV) Assembly

1 Assemble the main relief valve **R** into the main relief valve cavity.



Fig 98.

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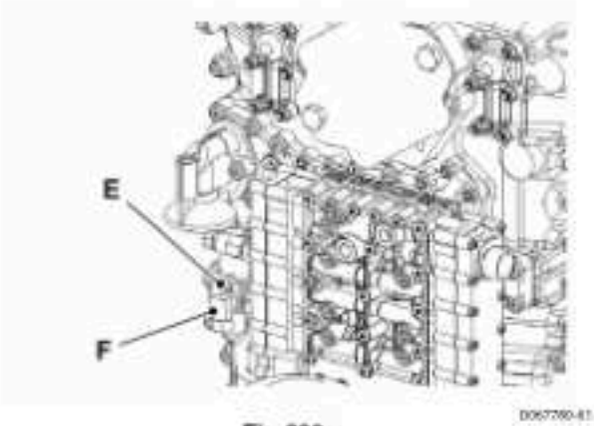


Fig 293.

4 Install the oil drain plug **G** with new O-ring.

Tightening torque: 80Nm

Bring oil level tube **H** with seal into contact position with the housing front part and fix it by means of two hexagon screws **J**

Tightening torque: 34Nm

Fasten dipstick **K** in oil level tube.

Fix identification plate **P** to the housing front part. ⇨ *Fig 294. (F-90)*

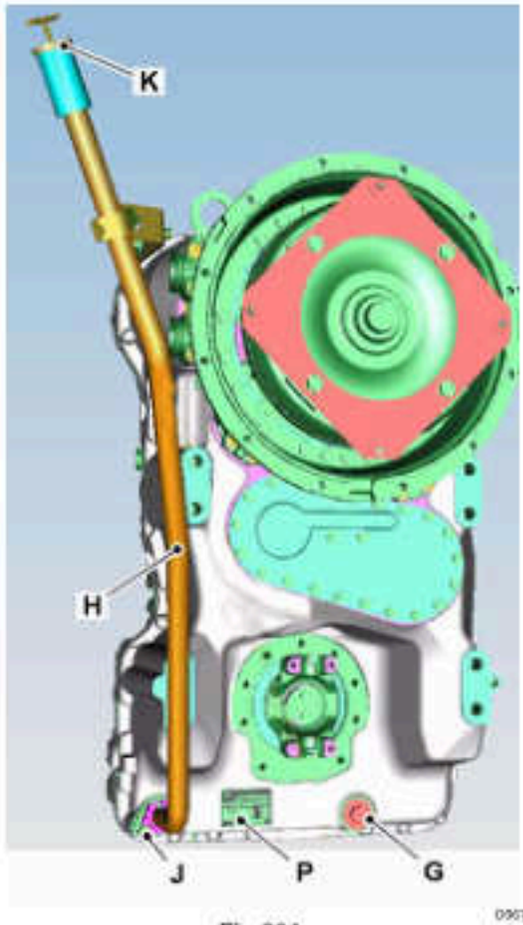


Fig 294.

5 Bring cover **N** with seal into contact position with the housing front part and fix it by means of hexagon screws **M**. ⇨ *Fig 295. (F-90)*

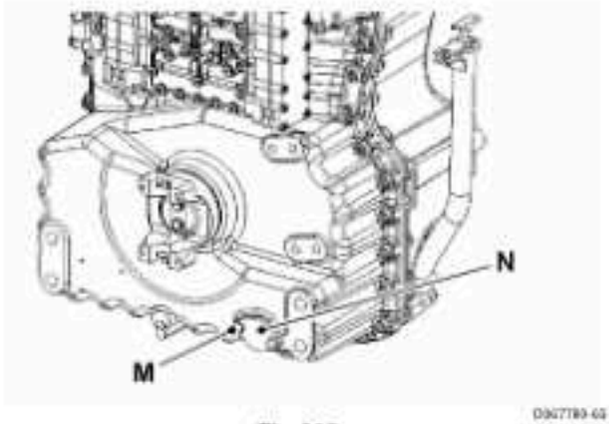


Fig 295.

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