SERVICE MANUAL

T6.110 / T6.120 / T6.130 TIER 3

Tractor

Part number 47793371

English

April 2017

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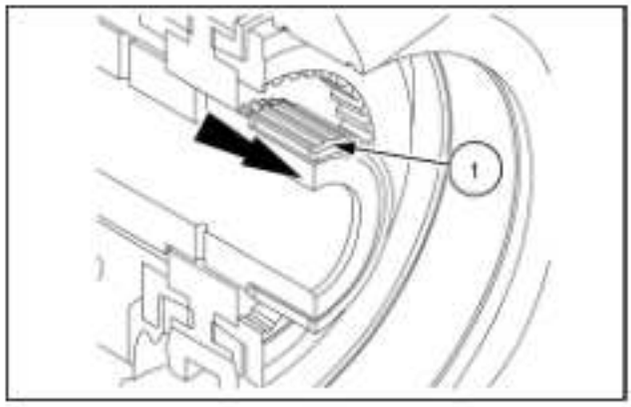
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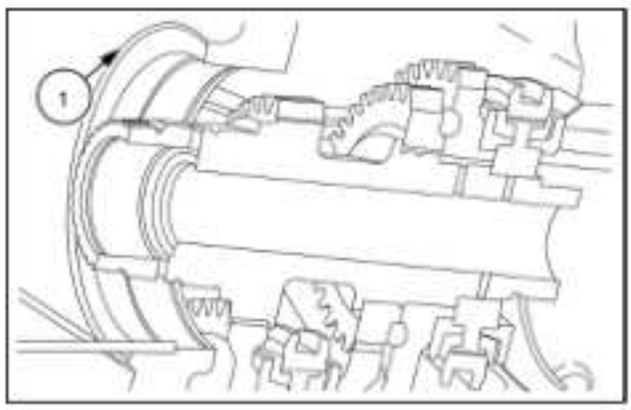
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21. Remove the needle bearing **(1)**.



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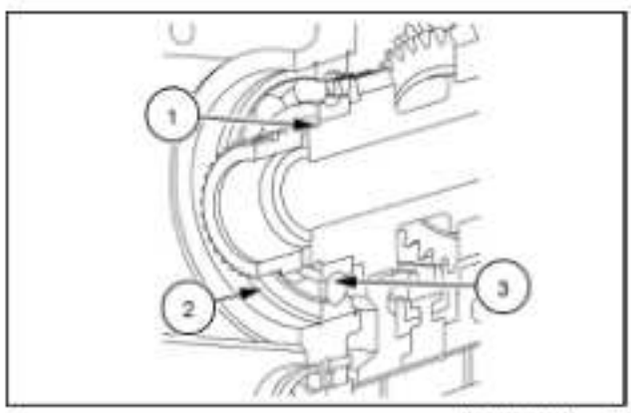
22. From the front of the transmission, extract the oil manifold assembly **(1)**.



17

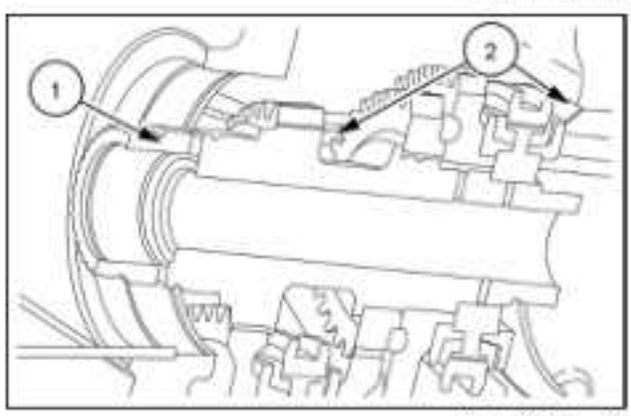
23. Remove the circlips **(1)** and **(2)** to enable the removal of the bearing **(3)**.

NOTE: *When the bearing is removed, it is necessary to support the shaft. The shaft must stay loose so that other parts are accessible.*



18

24. Remove the shaft **(1)**, the gears, and the synchronizer **(2)**, one by one, from the top of the transmission.



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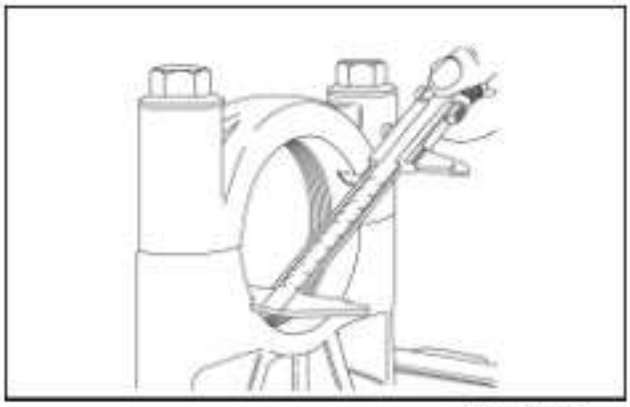
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Front bevel gear set and differential - Adjust - Pinion shim

Pinion shim adjustment

1. Install the roller bearings (without the bearing cover) and fasten with a torque of **113 N·m (83.3 lb ft)**.
2. Measure the internal dimension of the bearing diameter and call this dimension **(A)**.
3. Install the pinion bearings in the differential support housing and fasten them in position with tool **380000600**.

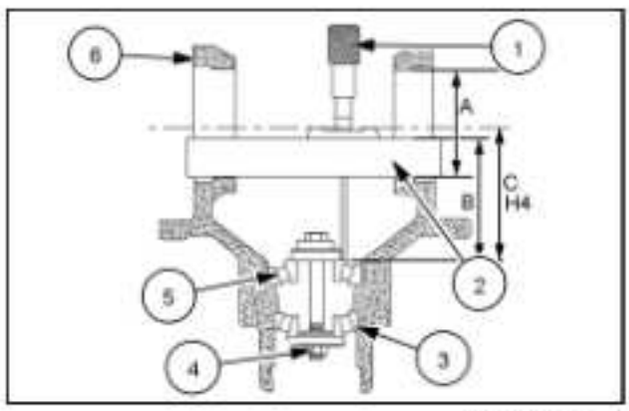
NOTE: *Fasten the clamp so that the bearing cones can be turned by hand.*



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4. Place the template bar – tool part number **380000600** – through the bearing diameter. Measure dimension **(B)**.
   1. Depth Micrometer
   2. Template bar – Tool part **380000600**.
   3. Pinion shaft bearings
   4. Tool **380000600**.
   5. Differential; support box
5. Calculate dimension H4 using the formula
   H4 = B-25*+(A/2)

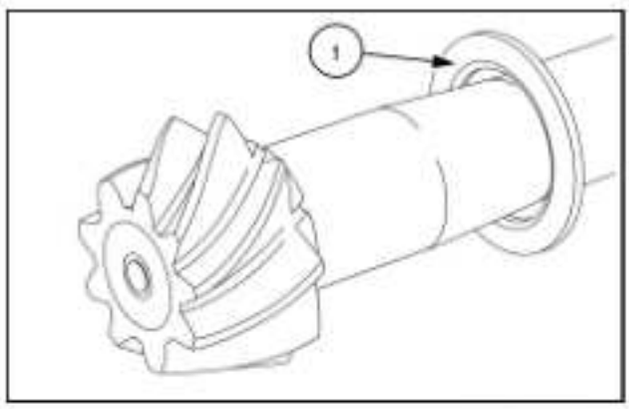
NOTE: **The template bar **380000600** has a diameter of **25 mm***



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6. Determine the thickness of shims "S2" which will be installed behind the pinion gear as follows:
   S2 = H4 - H3
   Where:
   H4 = Dimension calculated in step 5 above
   H3 = **115 mm** + correction factor (C)
   115 mm is the manufacturer's nominal dimension of the rear face of the pinion gear to the conical tip of the pinion.
   (Supplied by the manufacturer).
   C = Manufacturer's correction factor, engraved on the pinion face.

   Example
   A = **95 mm**
   B = **95.77 mm**
   H4 = B-25*+(A/2)
   H4 = 95.77–25*+(95/2)
   H4 = 118.27
   C = **0.1 mm**
   H3 = 115+0.1=115.1
   Thickness of shim S2 **(1) = 118.27–115.1= 3.17 mm**



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Wiring harnesses - Electrical schematic sheet 02 SH02 - ENGINE COMPONENTS

T6.110 PIN HCCZ, Without cab, TIER 3, 8x8, Year 2015	LA
T6.120 PIN HCCZ, Without cab, TIER 3, 8x8	LA
T6.130 PIN HCCZ, Without cab, TIER 3, 16X8	LA

Type	Component	Connector / Link	Description
Sensor	**B-002**		TEMPERATURE SENDER (38)
Sensor	**B-002 / B-003**	**X-020**	TEMPERATURE SENDER
Sensor	**B-003**		TEMPERATURE SENDER
Sensor	**B-004**		FUEL CONTAMINATION SENSOR (91)
Ground	**GND-009**	GND-009	ENGINE OIL PRESSURE SWITCH
Ground	**GND-011**	GND-011	FUEL SHUT-OFF SOLENOID
Resistor	**R-005**	**X-179**	WATER IN FUEL PULL-UP RESISTOR
Resistor	**RES-001 / SW-017**	**X-013**	FUEL CONTAMINATION SENSOR
Switch	**S-002**	**X-003B X-003A**	AIR FILTER CLOGGING
Switch	**S-004**	**X-001**	ENGINE OIL PRESSURE SWITCH
Switch	**S-005**	P82P80	ENGINE COOLANT LEVEL SWITCH
Switch	**S-029**		SWITCH
Connector	X-001	FH-001	FUSE HOLDER
Connector	X-002	**X-002**	CHASSIS GROUND
Connector	X-003	RH-002	RELAY HOLDER
Connector	X-003A	**X-003A**	AIR FILTER CLOGGING 1
Connector	X-003B	**X-003B**	AIR FILTER CLOGGING 2
Connector	X-004	**X-004**	
Connector	X-010F	**X-010F**	ENGINE HARNESS TO MAIN HARNESS
Connector	X-010M	**X-010M**	MAIN HARNESS/ENGINE CONNECTION
Connector	X-013	**X-013**	FUEL CONTAMINATION SENSOR
Connector	X-020	**X-020**	TEMPERATURE SENDER
Connector	X-179	**X-179**	RESISTOR **3.3 Ω**
Solenoid	**Y-002**	**X-002**	FUEL SHUT-OFF SOLENOID

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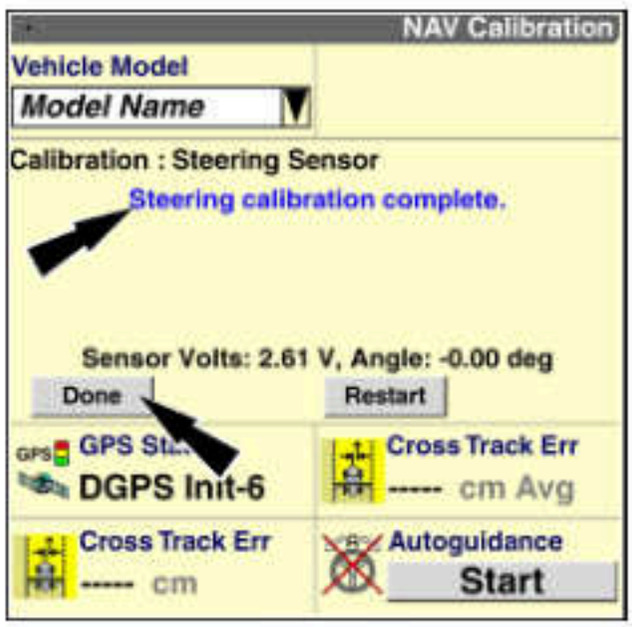
10. Turn the steering wheel until the steering is aligned and facing the front. The Sensor Volts (Volts do Sensor) and Angle (Angle) fields are updated as the steering wheel is turned.
11. Drive the vehicle with the wheels as aligned as possible during this stage of the procedure. Use the centre line of the road or another reference line as required. If the centre position of the steering wheel is not properly calibrated, the cross trajectory error can never be reduced to 0 (zero) and the steering can swing during automatic operation.

NOTE: *The steering wheel must be at the centre position when pressing the OK button.*

12. Press the OK button to continue.

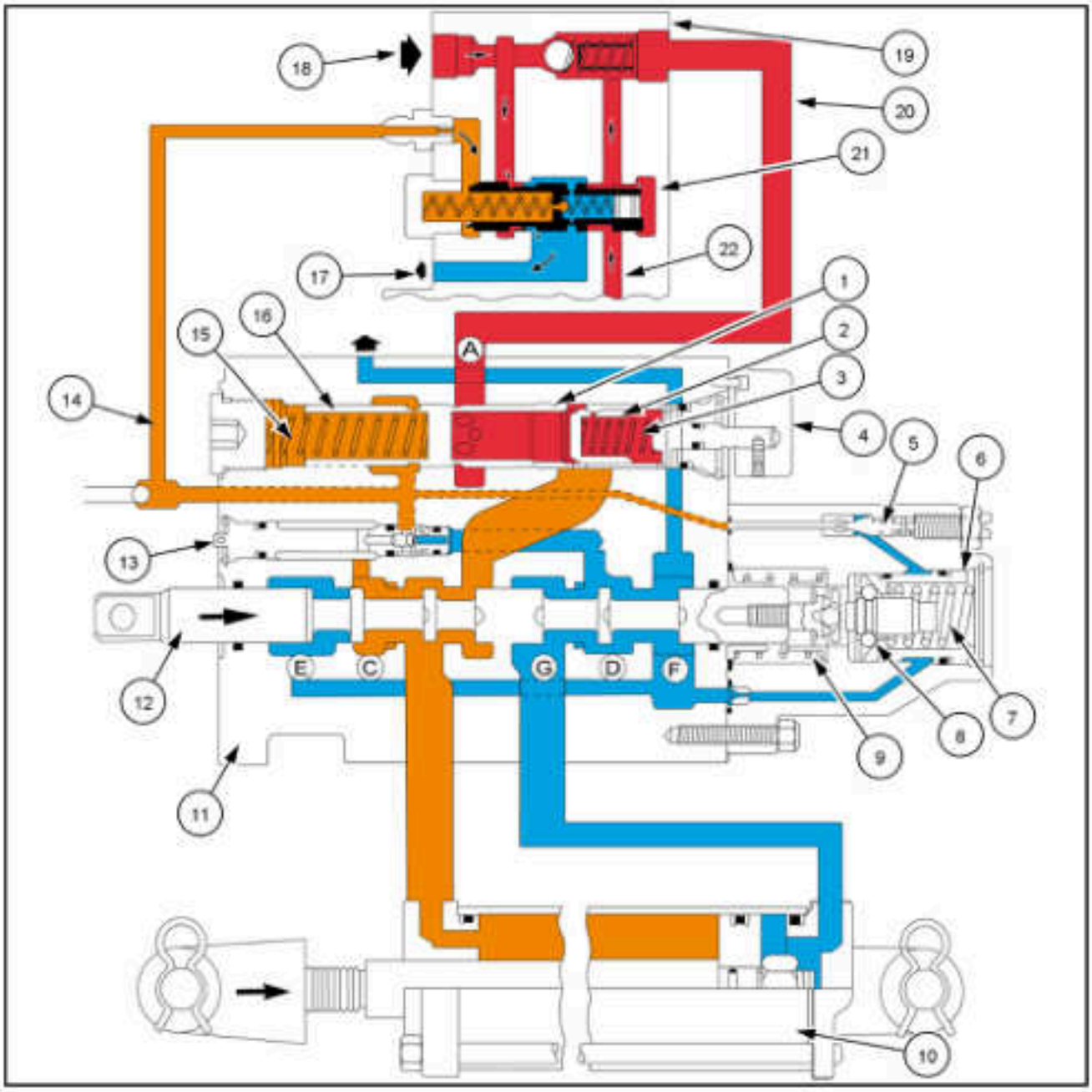


13. The message " Steering calibration complete (Steering calibration complete)" appears on the screen when the process has been completed successfully.
14. Press the Done (Done) button to save the calibration results and exit the steering sensor calibration.
15. The calibration results are automatically saved for the vehicle model selected.



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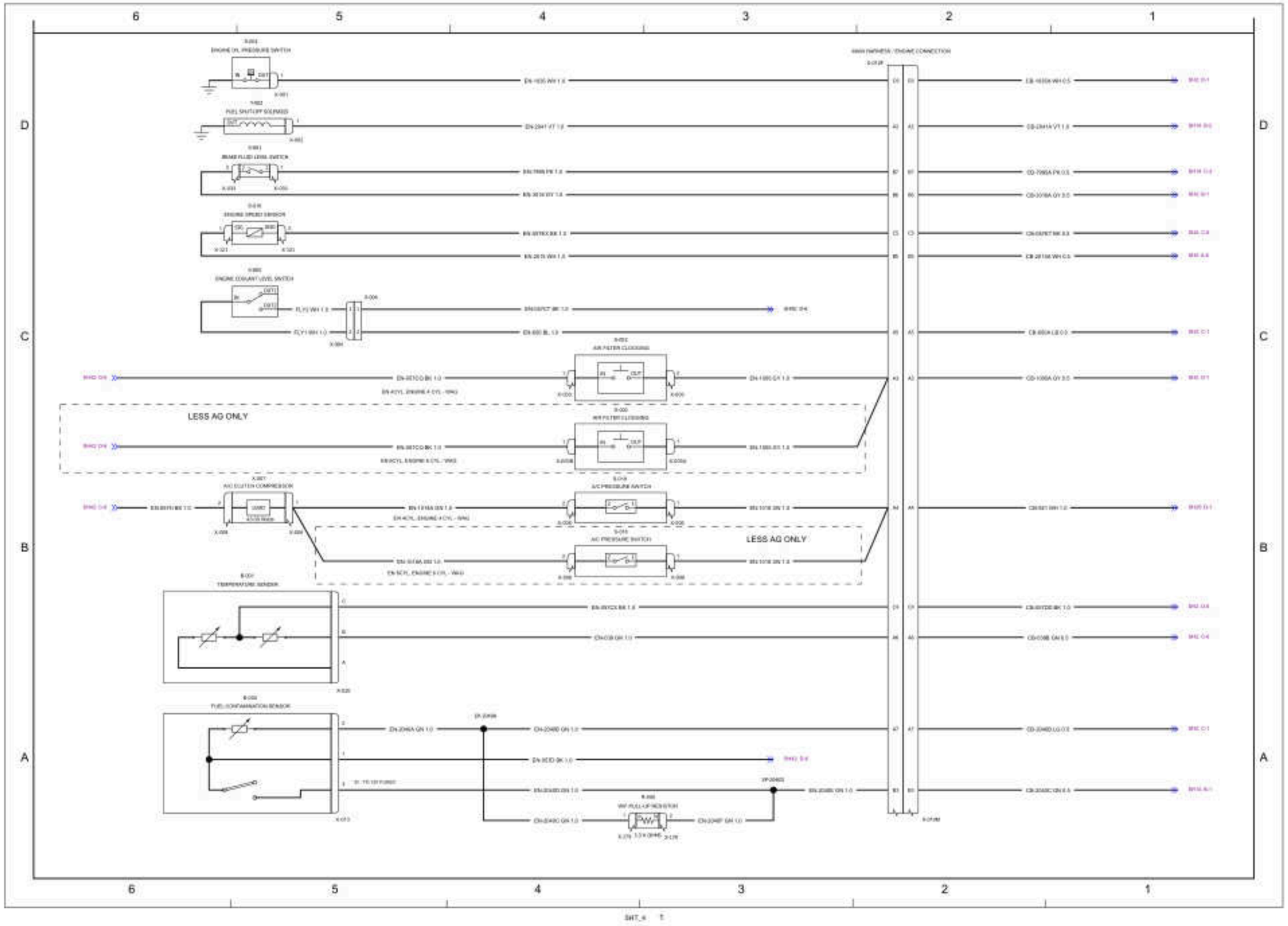
Single remote valve operation – Lowering with slow flow control setting



CUK17780094TGA 3

Reference	Component	Reference	Component
	Pump Pressure Oil		Reduced oil flow
	Suction oil/return to deposit		
(1)	Flow control restrictor	(12)	Control Valve Spool
(2)	Charge Check Valve	(13)	Shuttle check valve
(3)	Check valve spring	(14)	Load sense line (pilot line)
(4)	Flow control knob	(15)	Flow control spring
(5)	Detent regulating valve	(16)	Flow control spool
(6)	Detent spool	(17)	Return to deposit
(7)	Detent plunger and spring	(18)	From auxiliary pump (if equipped)
(8)	Detent Balls	(19)	Priority valve group
(9)	Centering Spring	(20)	Supply to remote valve
(10)	External cylinder	(21)	Combining valve
(11)	Valve body	(22)	Main pump supply

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