Farmall® 110A
Farmall® 120A
Farmall® 125A
Farmall® 140A

Tractor

SERVICE MANUAL

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CASE IH AGRICULTURE

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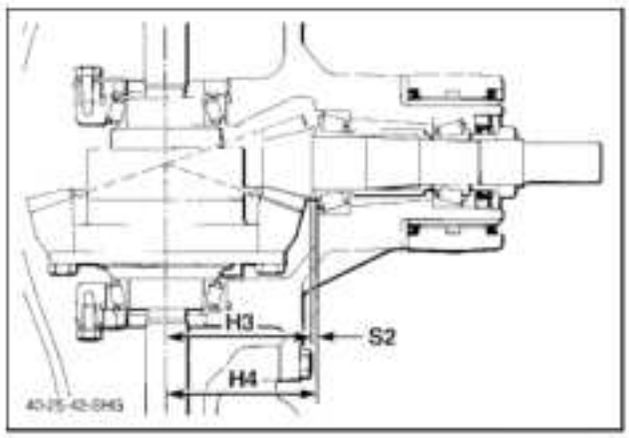
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Pinion Shimming Dimensions

H4 Dimension from pinion bearing to center line of differential housing
H3 **115 mm** (**4.5 in**), Manufacturer's pinion dimension: ±C (correction factor)
S2 Shim thickness

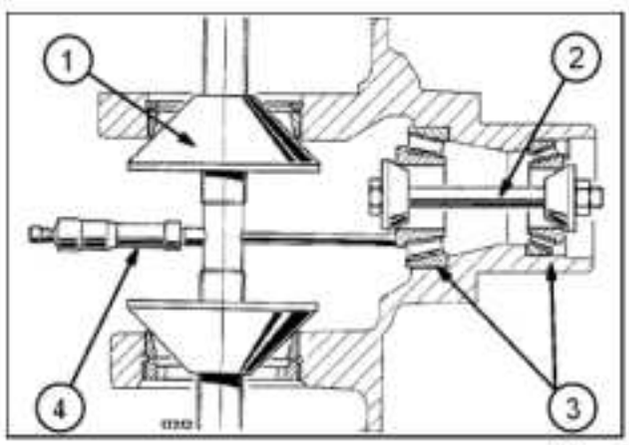
The dimension **H4**in the calculation of the shim thickness can be determined by using the pinion adjustment special tool **380000249**.



40-25-42 SHS 4

Pinion Shimming using pinion adjustment special tool 380000249.

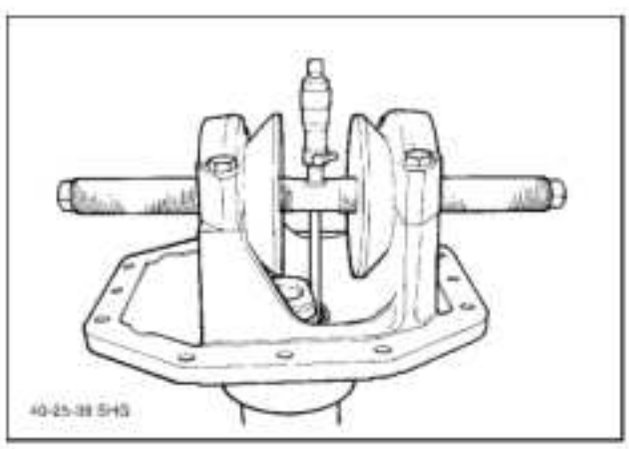
1. Install the pinion bearings in the differential housing and clamp in position using the special tool **380000248**/ **380000463** as used when determining thickness of shims for bearing preload.



17212 5

(1)	Pinion measuring gauge	**380000249**
(2)	Pinion bearing clamp	**380000248**/ **380000463**
(3)	Pinion bearings	
(4)	Micrometer	**380000249**

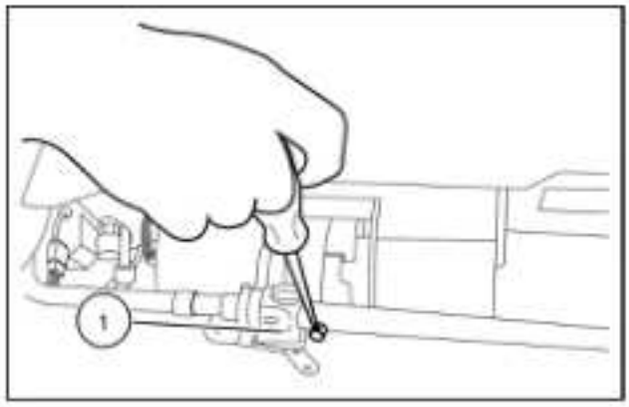
2. Install the pinion measuring gauge special tool **380000249** complete with bearing cup and adjusting rings. Tighten bearing caps to **113 Nm** (**83 lbf**).
3. Adjust the cones of the tool so that the depth micrometer tip touches the inner race of the bearing and measure the dimension **(H4)**.



40-25-39 SHS 6

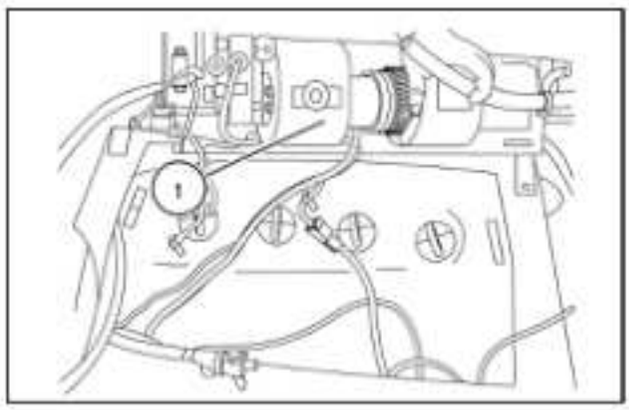
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16. Remove the bracket **(1)** that secures the pipe.



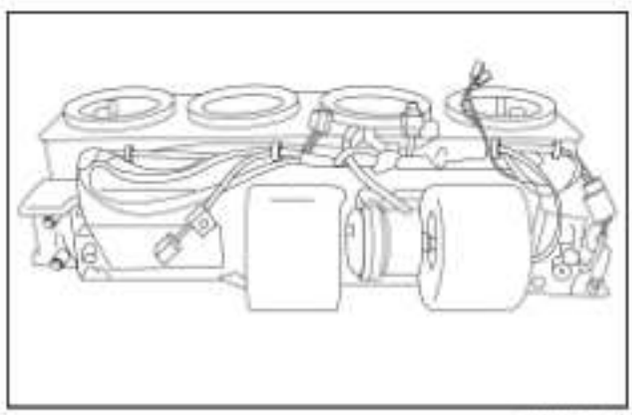
11

17. Remove all electrical connectors and take off the air-conditioning assembly **(1)** completely.



12

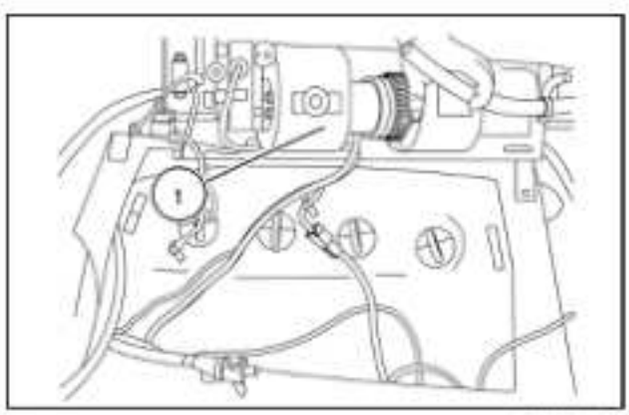
18. The air-conditioning assembly is now as shown.



13

Installation

1. Connect all electrical connectors on the air-conditioning assembly **(1)**.



14

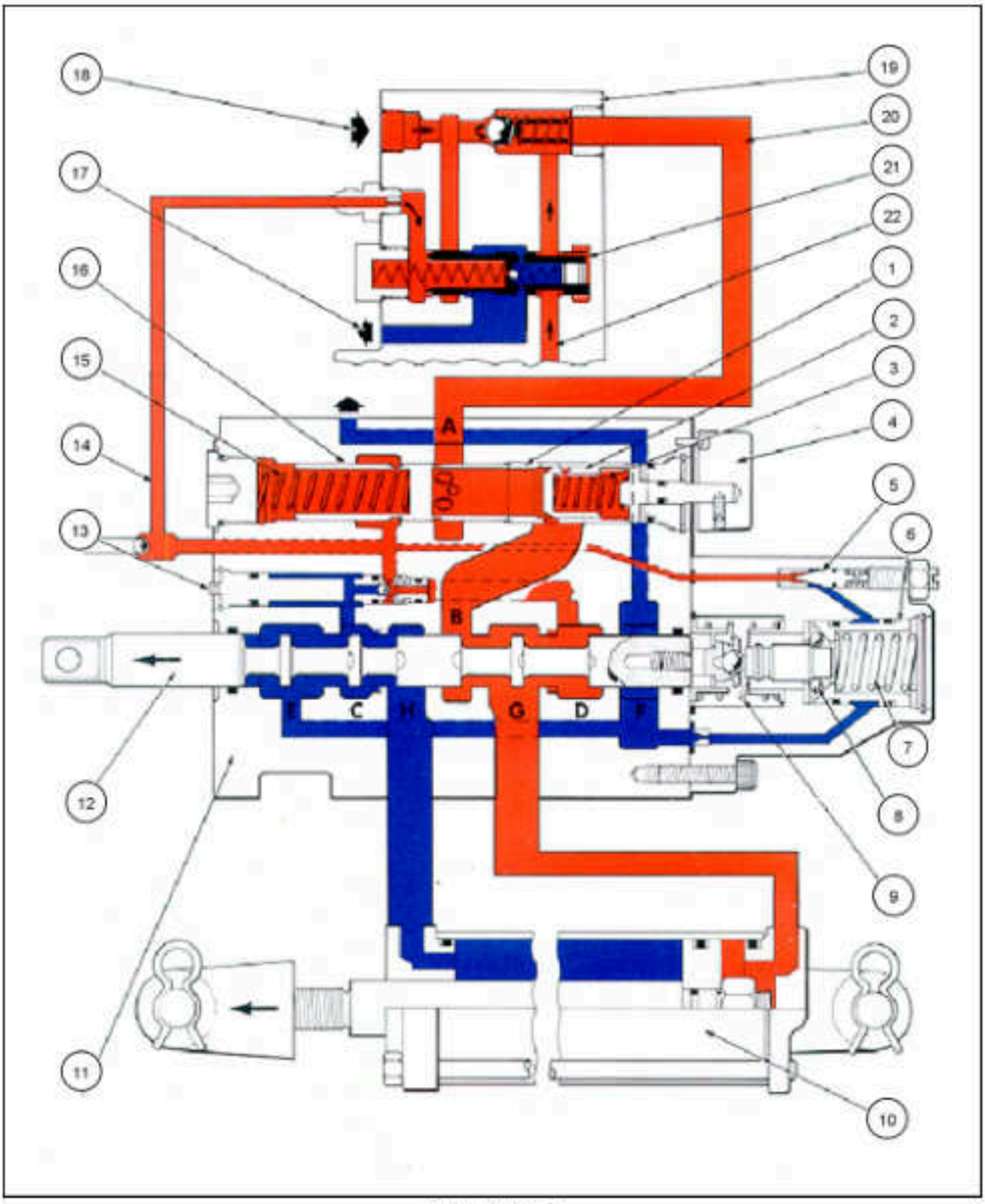
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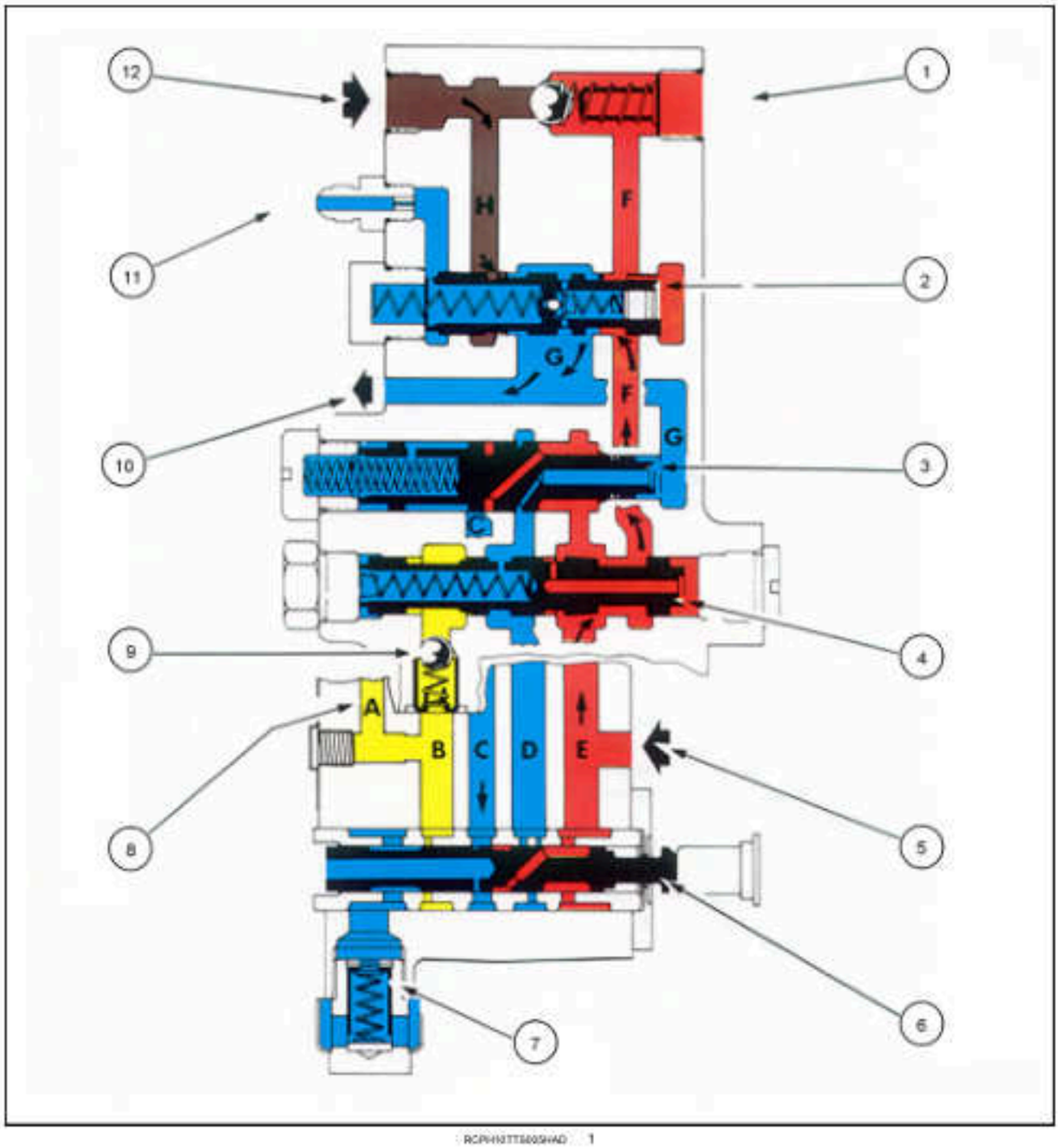
Farmall 110A NA Cab, Farmall 120A NA Cab, Farmall 125A NA Cab, Farmall 140A NA Cab

Component Identifier	Description
K-004	Power relay
K-005	Front and rear work lamps
K-006	Rear work lamps
K-007	Front work lamps
Z-002	Cab fuse block

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13 USGPM MAX
15 USGPM W/AUX PUMP
FLOW CAPACITY

13 USGPM MAX
15 USGPM W/AUX PUMP
FLOW CAPACITY

REMOTE VALVES

RELIEF VALVE

SEQUENCING VALVE

FLOW CONTROL VALVE

LIFTER

UNLOAD VALVE

RAM CYL.

CONTROL VALVE

EXHAUST VALVE

RAM CYL.

ENGINE DRIVE

STEERING CYLINDERS

9 USGPM
AUX. PUMP

L

R

180 BAR
HI PRESSURE CIRCUIT

TRANSMISSION DRIVE

LOW PRESSURE CIRCUIT

PUMP

165-170 BAR

STEERING MOTOR

P

T

13 USGPM

7 USGPM

OIL TANK

TRANSMISSION HOUSING

COOLER

G/BOX LUBE

Hi-Lo

UNDER DRIVE

DIRECT DRIVE

4WD GROUP
DESENGOGMENT

MAX RELIEVE VALVE
12 + 4 BAR

MAX LUBE VALVE
5.3 + 8.5 BAR

PTO
BRAKE

PTO
CLUTCH
LUBE

PTO
CLUTCH

PTO GROUP

LEGEND

13 GPM PUMP SUPPLY

7 GPM PUMP SUPPLY

AUXILIARY PUMP SUPPLY

RETURN TO TANK/SUMP

LUBE OIL SUPPLY

Description	Grid Location
13 GPM Pump	E-12
4WD	B-11
7 GPM Pump	E-11
9 GPM Pump	G-8
Control Valve	H-10
Cylinder Ram (LH)	H-7
Cylinder Ram (RH)	J-7
Dual Power	C-14
Exhaust Valve	H-9
Flow Control Valve	J-10
High Pressure Relief	F-11
Hydraulic Cooler	D-7
Hydraulic Oil Tank	D-11
Lifter	J-9
PTO Brake	B-9
PTO Clutch	B-8
PTO Lube Valve	B-8
PTO Relief Valve	B-9
Relief Valve	K-12
Remote Valves	L-14
Sequencing Valve	K-11
Steering Cylinder (LH)	G-10
Steering Cylinder (RH)	G-9
Unload Valve	J-10

HYDRAULIC SCHEMATIC
FARMALL 110A, 120A, 125A, 140A TRACTOR
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