FARMALL® 110U
FARMALL® 120U
Tractor

SERVICE MANUAL

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CASE IH AGRICULTURE

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Contents

INTRODUCTION

Engine 10

[10.001] Engine and crankcase 10.1

[10.216] Fuel tanks 10.2

[10.206] Fuel filters 10.3

[10.202] Air cleaners and lines 10.4

[10.254] Intake and exhaust manifolds and muffler 10.5

[10.500] Selective Catalytic Reduction (SCR) exhaust treatment 10.6

[10.501] Exhaust Gas Recirculation (EGR) exhaust treatment 10.7

[10.400] Engine cooling system 10.8

[10.414] Fan and drive 10.9

[10.310] Aftercooler 10.10

[10.304] Engine lubrication system 10.11

[10.218] Fuel injection system 10.12

Clutch 18

[18.100] Clutch mechanical release control 18.1

[18.112] Slip clutch or flywheel damper 18.2

Transmission 21

[21.111] Semi-Powershift transmission 21.1

[21.133] Semi-Powershift transmission external controls 21.2

[21.103] Semi-Powershift transmission hydraulic components 21.3

[21.152] Semi-Powershift transmission internal components 21.4

[21.160] Creeper 21.5

[21.109] Transmission cooler and lines 21.6

Four-Wheel Drive (4WD) system 23

[23.202] Electro-hydraulic control 23.1

MidWestTech | Case Farmall 110U, 120U Tractor Service Manual | Publication 48038... Order the manual at mid-west-tech.com >

[23.314] Drive shaft 23.2

Front axle system 25

[25.100] Powered front axle 25.1

[25.102] Front bevel gear set and differential 25.2

[25.108] Final drive hub, steering knuckles, and shafts 25.3

[25.122] Axle suspension control 25.4

Rear axle system 27

[27.100] Powered rear axle 27.1

[27.106] Rear bevel gear set and differential 27.2

[27.120] Planetary and final drives 27.3

Power Take-Off (PTO) 31

[31.104] Rear electro-hydraulic control 31.1

[31.114] Two-speed rear Power Take-Off (PTO) 31.2

[31.116] Three-speed rear Power Take-Off (PTO) 31.3

[31.142] Front Power Take-Off (PTO) control 31.4

[31.146] Front Power Take-Off (PTO) 31.5

Brakes and controls 33

[33.202] Hydraulic service brakes 33.1

[33.110] Parking brake or parking lock 33.2

Hydraulic systems 35

[35.000] Hydraulic systems 35.1

[35.204] Remote control valves 35.2

[35.100] Main lift system 35.3

[35.160] Front hitch controls and lines 35.4

[35.162] Front hitch cylinders and lines 35.5

[35.116] Three-point hitch cylinder 35.6

[35.304] Combination pump units 35.7

Hitches, drawbars, and implement couplings 37

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[37.100] Drawbars and towing hitches 37.1
[37.110] Rear three-point hitch 37.2
[37.120] Rear three-point hitch linkage 37.3
[37.162] Front hitch 37.4
[37.166] Front hitch linkage 37.5
Frames and ballasting 39
[39.140] Ballasts and supports 39.1
Steering 41
[41.101] Steering control 41.1
[41.106] Tie rods 41.2
[41.200] Hydraulic control components 41.3
[41.216] Cylinders 41.4
Wheels 44
[44.511] Front wheels 44.1
[44.520] Rear wheels 44.2
Cab climate control 50
[50.100] Heating 50.1
[50.104] Ventilation 50.2
[50.200] Air conditioning 50.3
Electrical systems 55
[55.100] Harnesses and connectors 55.1
[55.525] Cab engine controls 55.2
[55.015] Engine control system 55.3
[55.201] Engine starting system 55.4
[55.301] Alternator 55.5
[55.302] Battery 55.6
[55.011] Fuel tank system 55.7
[55.010] Fuel injection system 55.8

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Wiring harnesses - Component identification

Component name	Description
X-001	Main harness - Engine 1 intermediate connection
X-002	Engine 1 - PDU intermediate connection
X-003	PDU
X-004	PDU
X-005	PDU
X-006	PDU
X-007	Cab power fuse
X-008	BDS relay intermediate connection
X-009	Battery positive pole connection
X-010	Starter motor
X-011	Starter motor
X-012	Alternator
X-013	Alternator
X-014	PDU
X-015	Horn
X-016	Horn
X-017	Corner lamp left-hand
X-018	Corner lamp right-hand
X-019	Left-hand low/high beam
X-020	Right-hand low/high beam
X-021	Front grabrail position light/direction light left-hand
X-022	Front grabrail position light/direction light right-hand
X-025	Engine 1 - hood intermediate connection
X-026	**8 A** socket
X-027	Cigar lighter connector
X-029	Electric seat connector
X-030	Fans speed selector
X-031	Air-conditioning switch
X-032	Beacon switch
X-034	Main lights switch
X-036	Rear wiper motor switch
X-037	Auto function switch
X-038	Rear wiper motor
X-039	Radio
X-040	Air-conditioning ON/OFF control LED
X-041	Air-conditioning temperature potentiometer
X-042	Air-conditioning minimum pressure switch
X-043	Air-conditioning actuator
X-044	Frost thermostat
X-045	Air-conditioning control unit
X-046	Main harness - fan left-hand intermediate connection
X-047	Main harness - fan right-hand intermediate connection
X-049	PDU
X-051	Interior lamp
X-052	Interior lamp
X-053	Interior lamp
X-054	Spot lamp
X-055	Rear worklamp right-hand on roof
X-056	Rear worklamp left-hand on roof
X-057	Front worklamp right-hand on roof
X-058	Front worklamp left-hand on roof
X-059	Worklamp grabrail right-hand - Roof intermediate connection

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2005 - Creeper engage fault

NOTE: *When the cause of the error code has been rectified, clear the error code and test the system for normal operation.*

Possible failure modes:

1. Faulty creeper solenoid
2. Faulty creeper rail switch
3. Faulty hydraulic circuit
4. Mechanical fault

Solution:

1. Check for other error codes being displayed.
   A. If any other error codes are being displayed, continue to these tests.
   B. If no other error codes are displayed, continue to step **2**
2. Clear the error code and test the system for normal operation.
   A. If the error code re-occurs, continue to step **3**
3. Check the creeper solenoid.
   A. Remove the solenoid, clean or replace as required.
   B. If the error code is still displayed, continue to step **4**
4. Check the hydraulic pressures.
   A. If the pressures indicated are approximately **18 bar**, possible mechanical fault within the transmission.
   B. If the pressure is low, continue to hydraulic troubleshooting procedures.
   C. If the pressures indicated are okay, continue to step **5**
5. Check the creeper rail switch.
   A. Disconnect connector **X-504**. Remove the creeper rail switch. Check between the component side of the connector **X-504** pin 1 and pin 2. Operate the switch, the readings should alternate between open and closed circuit.
   If the reading are not as expected, replace the creeper rail switch.
   B. If the readings are as expected, continue to step **6**
6. Check for short to +Ve voltage.
   A. Check between **X-504** pin 1, wire TR–5101C (OR) and ground. If a voltage is indicated, repair or replace the harness as required.
   B. If a short to + Ve voltage is not indicated, the readings are as expected, download the correct level of software. If the fault re-occurs, remove and replace the controller.

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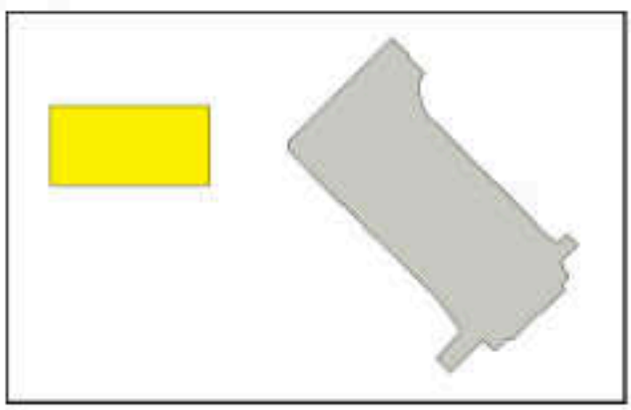
Gears - Service instruction - Disassembling indications



M08.15TR01902FA 1

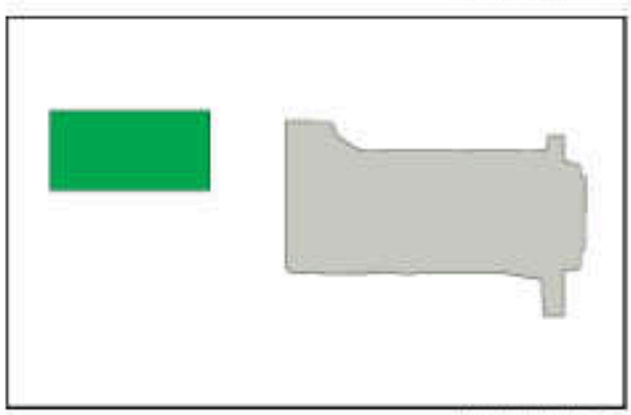
Gearbox- Section view

Position the transmission housing, as shown in the figure, to remove the components of the front section.



M08.15TR01903AA 2

Position the transmission housing, as shown in the figure, to remove the components of the central section (part 1).



M08.15TR01904AA 3

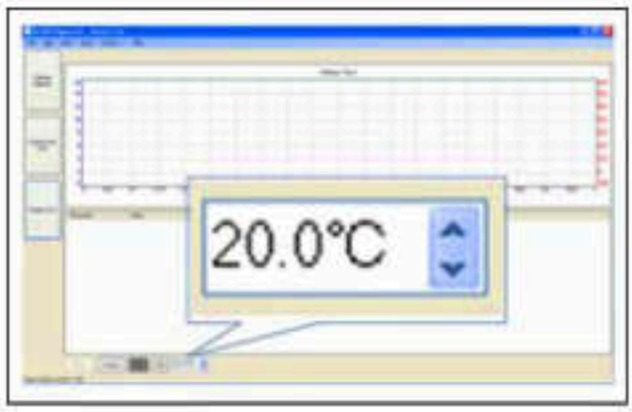
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3. In the main screen DATAR Diagnostics, select the battery test icon **(1)**.



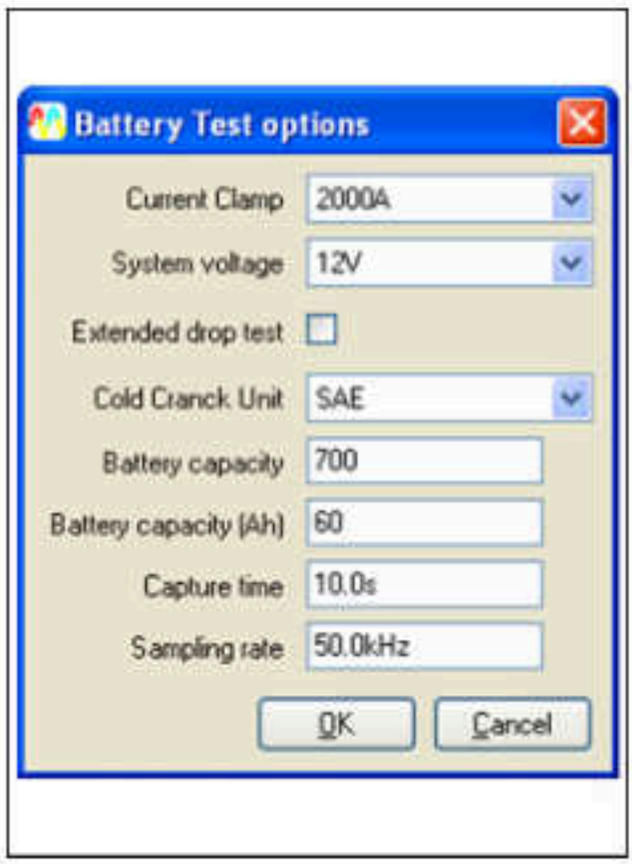
4. In the battery test screen, click the up and down arrows of the temperature display on the bottom left and set the battery temperature measured with a thermometer in contact with it.

NOTE: *Make sure that the battery temperature is set correctly before starting the test.*

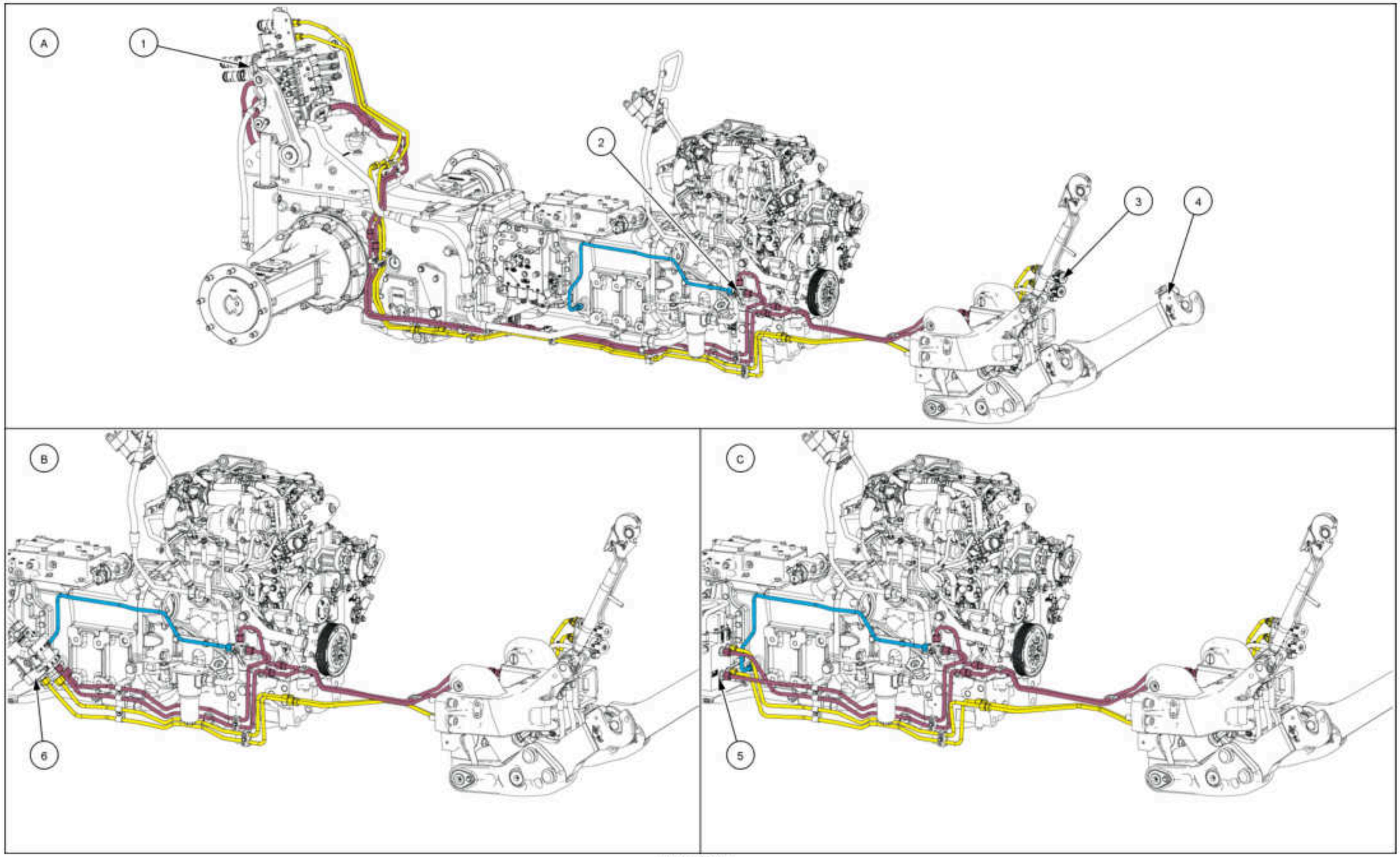


5. Select the 'Battery Test' option from the 'Options' drop down menu and make sure that the following settings are correct:
   - Current clamp = **2000 A**
   - System voltage = **12 V**
   - Untick the box: Extended drop test
   - Capture time = **10 s**
   - Sampling rate = 50 KHz
6. Make sure to add the correct information related to the battery in the following fields:
   - Cold Crank Unit
   - Battery capacity
   - Battery (Ah)

NOTE: *For batteries fitted in production set the 'Cold Crank Unit' to SAE.*



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