COTTON EXPRESS® 620
Cotton Picker

SERVICE MANUAL

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English

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CASE IH AGRICULTURE

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Contents

INTRODUCTION

Engine 10

[10.001] Engine and crankcase 10.1

[10.400] Engine cooling system 10.2

Rear axle system 27

[27.100] Powered rear axle 27.1

Hydrostatic drive 29

[29.218] Pump and motor components 29.1

Brakes and controls 33

[33.202] Hydraulic service brakes 33.1

Hydraulic systems 35

[35.000] Hydraulic systems 35.1

[35.300] Reservoir, cooler, and filters 35.2

[35.106] Variable displacement pump 35.3

[35.105] Charge pump 35.4

Steering 41

[41.101] Steering control 41.1

[41.216] Cylinders 41.2

[41.432] Autoguidance steering 41.3

Cab climate control 50

[50.100] Heating 50.1

[50.200] Air conditioning 50.2

Electrical systems 55

[55.100] Harnesses and connectors 55.1

[55.DTC] FAULT CODES 55.2

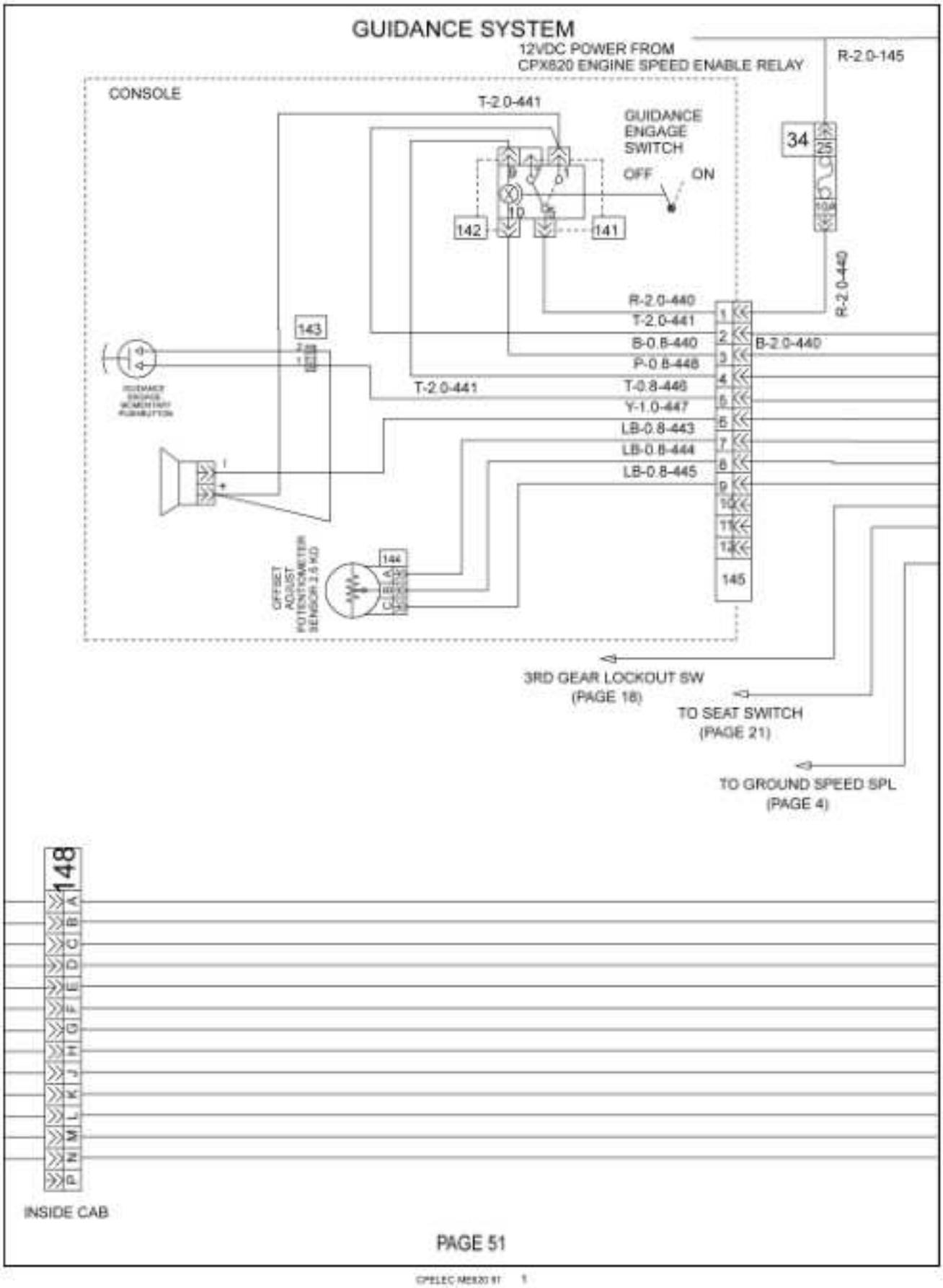
Product feeding 60

MidWestTech | Case Cotton Express 620 Cotton Picker Service Manual | Publication 4... Order the manual at mid-west-tech.com >

[60.600] Cotton picking 60.1
[60.610] Cotton conveyor 60.2
Lubrication system 71
[71.460] Grease lubrication system 71.1
Crop storage / Unloading 80
[80.200] Cotton basket and compactor 80.1
[80.400] Cotton unloading conveyor 80.2

MidWestTech | Case Cotton Express 620 Cotton Picker Service Manual | Publication 4... Order the manual at mid-west-tech.com >

Harnesses and connectors - Electrical schematic frame 51 Page 51



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E0058-11- Drum spread enable driver - Unidentified failure code

Control Module : Apost2

Context:
The drum spread enable driver allows the operator to unlock the drums from the harvest position (NARROW) and spread them to gain access for normal maintenance work. In order for the spread function to work, the transmission must be in the Neutral position, the park brake must be ON, and the OPS service switch is in the ON position. When these conditions are met, the controller will deliver power to the drum service relay and then the spread solenoids.

Cause:
The drum spread enable driver has detected a fault in the drum spread system.

Possible failure modes:

1. Faulty drum service relay.
2. Faulty drum spread switch.
3. Faulty drum spread solenoids.
4. Faulty controller.
5. Faulty electrical wiring, shorted to high source condition.
6. Faulty electrical wiring, open condition.

Solution:

1. Verify this fault is still present and in an active state.

   A. If the fault is still present and active, continue to step **2**.

   B. If the fault is no longer present or inactive, return machine to proper operation.

2. Verify the drum service relay is functions properly.
   Place the machine in service mode and use a multi-meter to check for voltage between the drum service relay connector **20** pin 1 and the chassis ground.

   A. If there is voltage, continue to step **3**.

   B. If there is no voltage, continue to step **4**.

3. Verify the drum service relay is functions properly. Use a multi-meter to check for voltage between the drum service relay connector **20** pin 5 and the chassis ground.

   A. If there is voltage, the relay functions properly. Continue to step **7**.

   B. If there is no voltage, continue to step **6**.

4. Check the voltage circuit for short to high condition. Disconnect the connector **C003** from the drum service relay connector **20** and their shared wire. Use a multi-meter to check for voltage between the connector **C003** pin 9 and the chassis ground.

   A. If the voltage reading is high, continue to step **5**.

   B. If there is voltage, there is a short to high between the connector **C003** pin 9 and the drum service relay connector **20** pin 1, at wire 310-1 TNLocate and repair the shorted conductor.

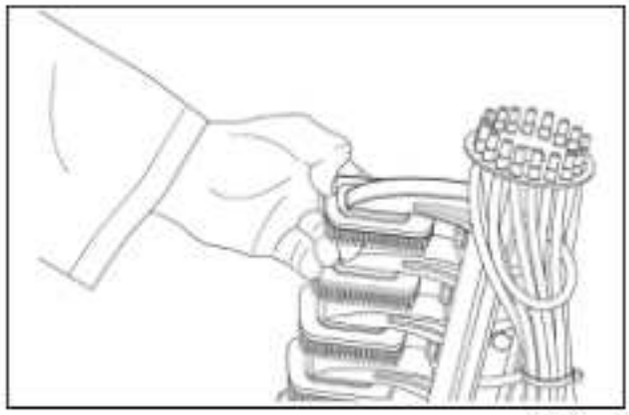
5. Check the voltage circuit for short to high condition. Disconnect the instrument panel connector **J2** from the connector **C003** and their shared wire. Use a multi-meter to check for voltage between the instrument panel connector **J2** pin 23 and the chassis ground.

   A. If the voltage reading is high, the panel has failed. Replace the panel.

   B. If there is voltage, there is a short to high between the instrument panel connector **J2** pin 23 and the connector **C003** pin 9. Locate and repair the shorted conductor.

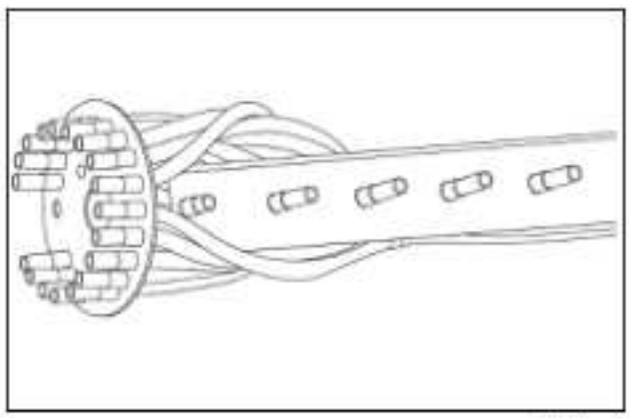
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1. Install the pad supports with the mounting bolts. Torque bolts to **15 - 18 N·m (11 - 13 lb ft)**.
   Carefully stretch the moistener pads to install the pads on the supports.



A134584N 2

2. Cut new tubes following the tube length chart below. Install the tubes with spring clips through the retainer plate following the diagram below.



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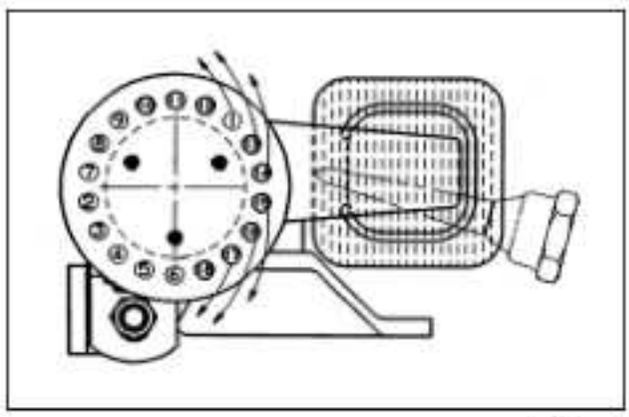
Tube length chart

NO. 1. - **140 mm (8 in)**	NO. 10. - **480 mm (19 in)**
NO. 2. - **200 mm (5.5 in)**	NO. 11. - **535 mm (21 in)**
NO. 3. - **190 mm (7.5 in)**	NO. 12. - **570 mm (22.5 in)**
NO. 4. - **230 mm (9 in)**	NO. 13. - **620 mm (24.5 in)**
NO. 5. - **280 mm (11 in)**	NO. 14. - **660 mm (265 in))**
NO. 6. - **330 mm (13 in)**	NO. 15. - **720 mm (28.5 in)**
NO. 7. - **335 mm (14 in)**	NO. 16. - **760 mm (30 in)**
NO. 8. - **395 mm (15.5 in)**	NO. 17. - **815 mm (32 in)**
NO. 9. - **445 mm (17.5 in)**	NO. 18. - **840 mm (23 in))**

NOTE: *Numbers show placement of tubes in water distributor. The Number One tube is connected to the top moistener pad.*

3. Insert the opposite end of each tube with a spring clip through the shield and into the proper moistener pad position.

NOTICE: *The top pad is the Number One position.*
Nest the tubes together and secure with straps.



TS3_01N 4

Retainer Plate Diagram

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FOUR WHEEL DRIVE CONTROLS

OPERATOR PRESENCE SYSTEM

OPERATOR PRESENCE SYSTEM

OPERATOR PRESENCE SYSTEM

ENGINE OIL PRESSURE

H.V.A/C SYSTEM

H.V.A/C SYSTEM

H.V.A/C SYSTEM

LIGHTING SYSTEM

LIGHTING SYSTEM

LIGHTING SYSTEM

LIGHTING SYSTEM

LIGHTING SYSTEM

LIGHTING SYSTEM

RADIO/SERVICE LIGHTS

CIGAR LIGHTER / DOME LIGHT / AIR SEAT

MOISTENER/RPM CONTROLS

MOISTENER/FAN CONTROLS

DRUM SPREAD

BACK LIGHTING CIRCUITS (IN CAB)

MISC. GROUND CIRCUITS (IN CAB)

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