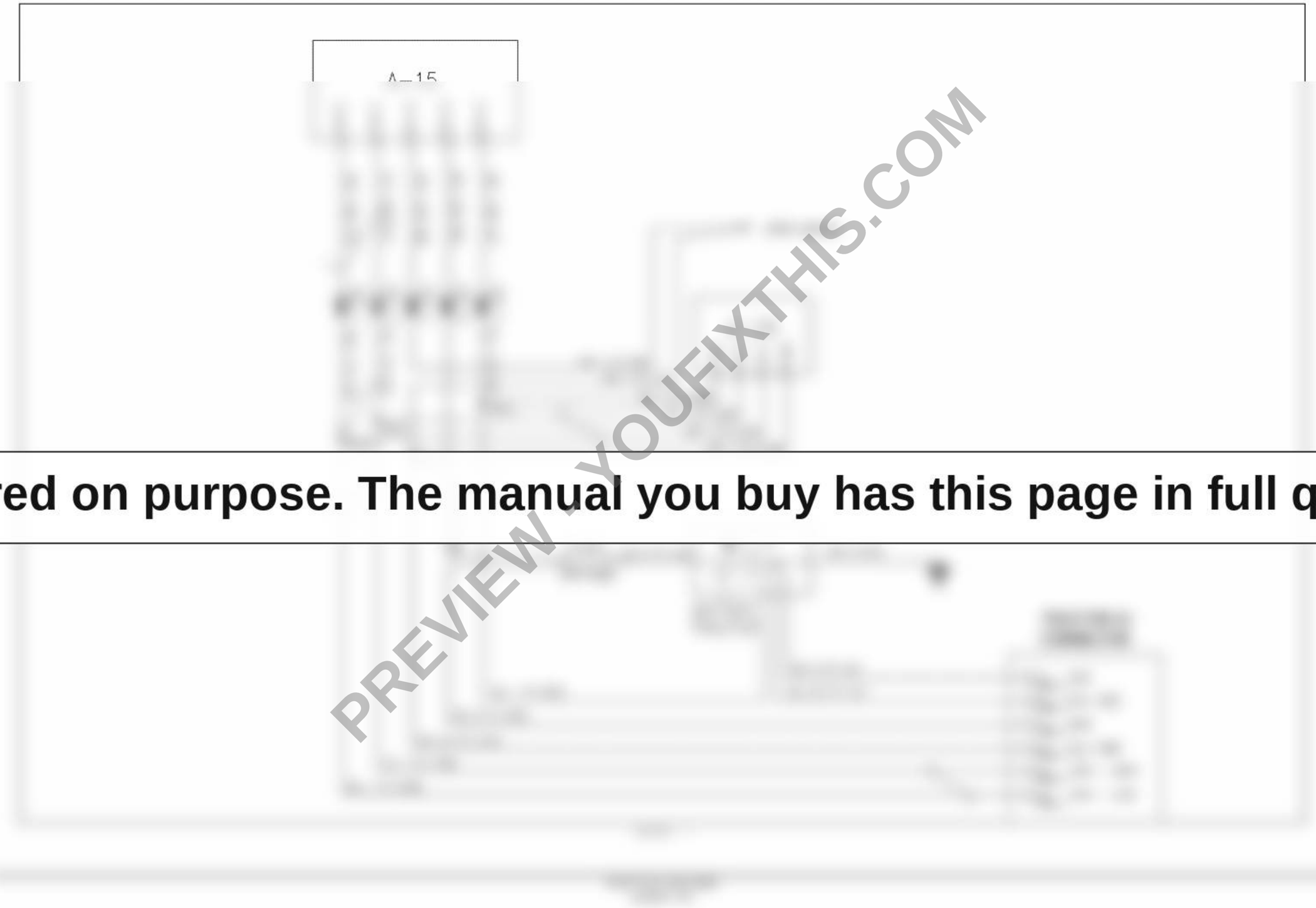

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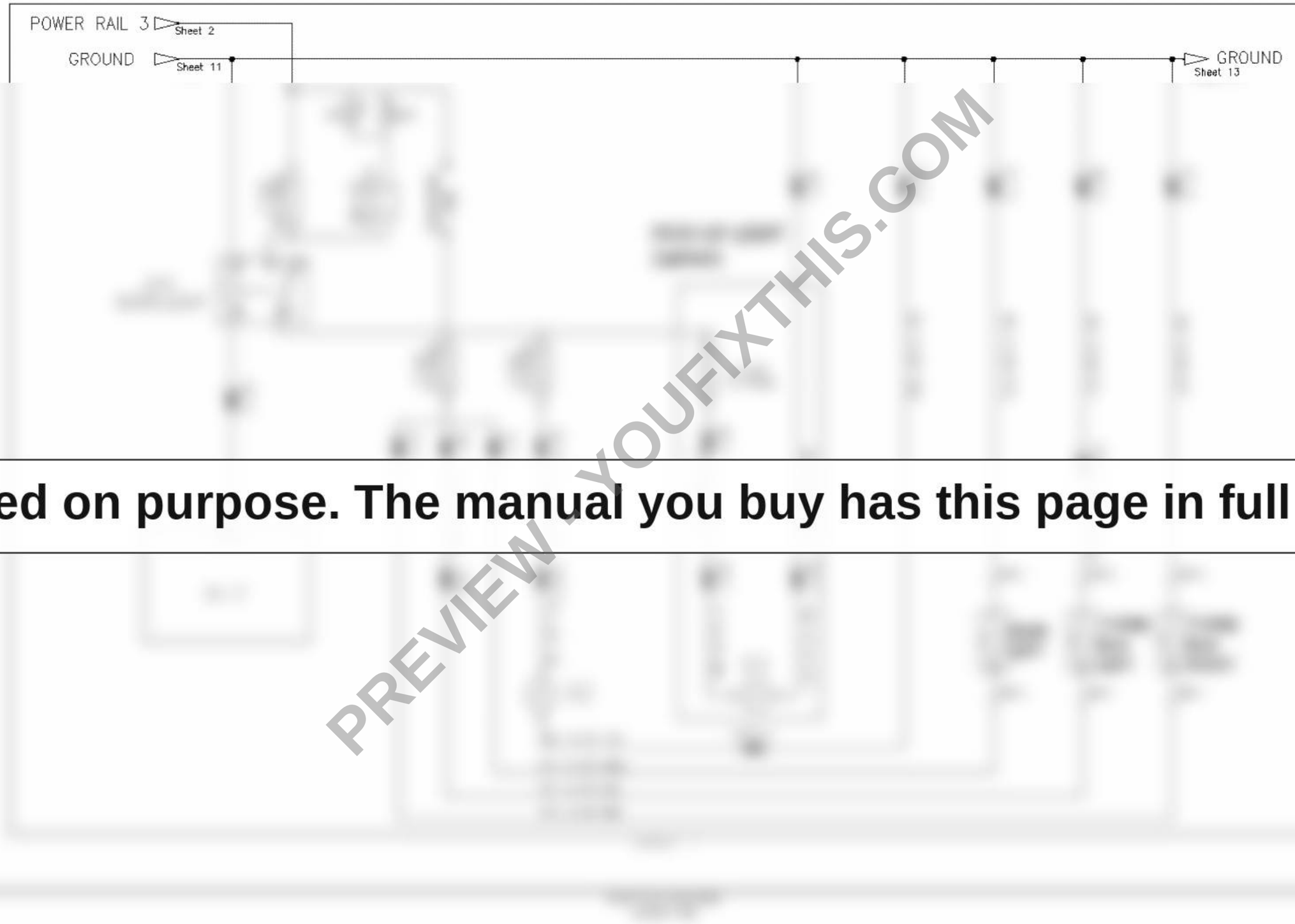

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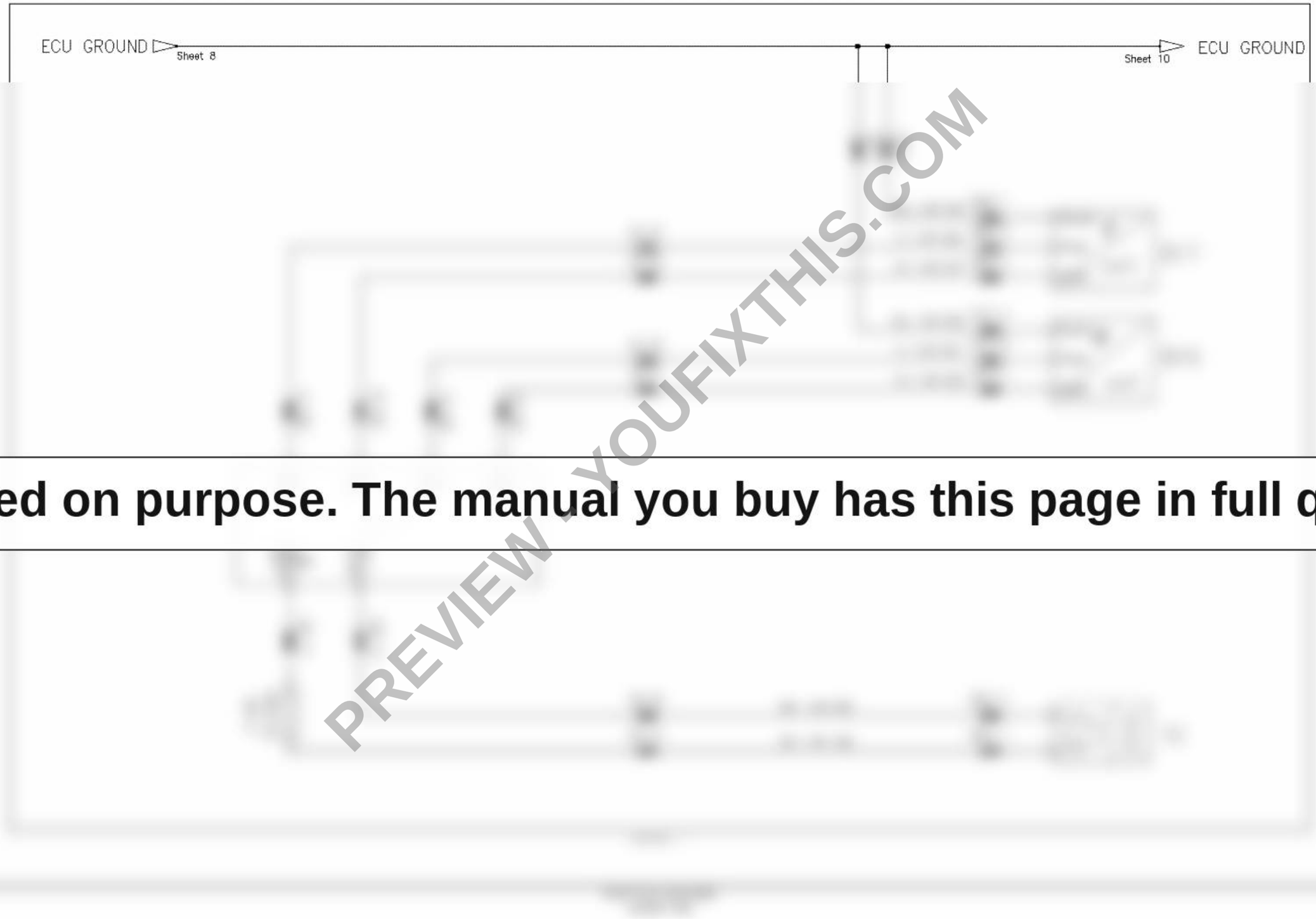

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Torque

Minimum hardware tightening torques are Nm and Lbs ft or Lbs in for normal assembly applications unless otherwise stated

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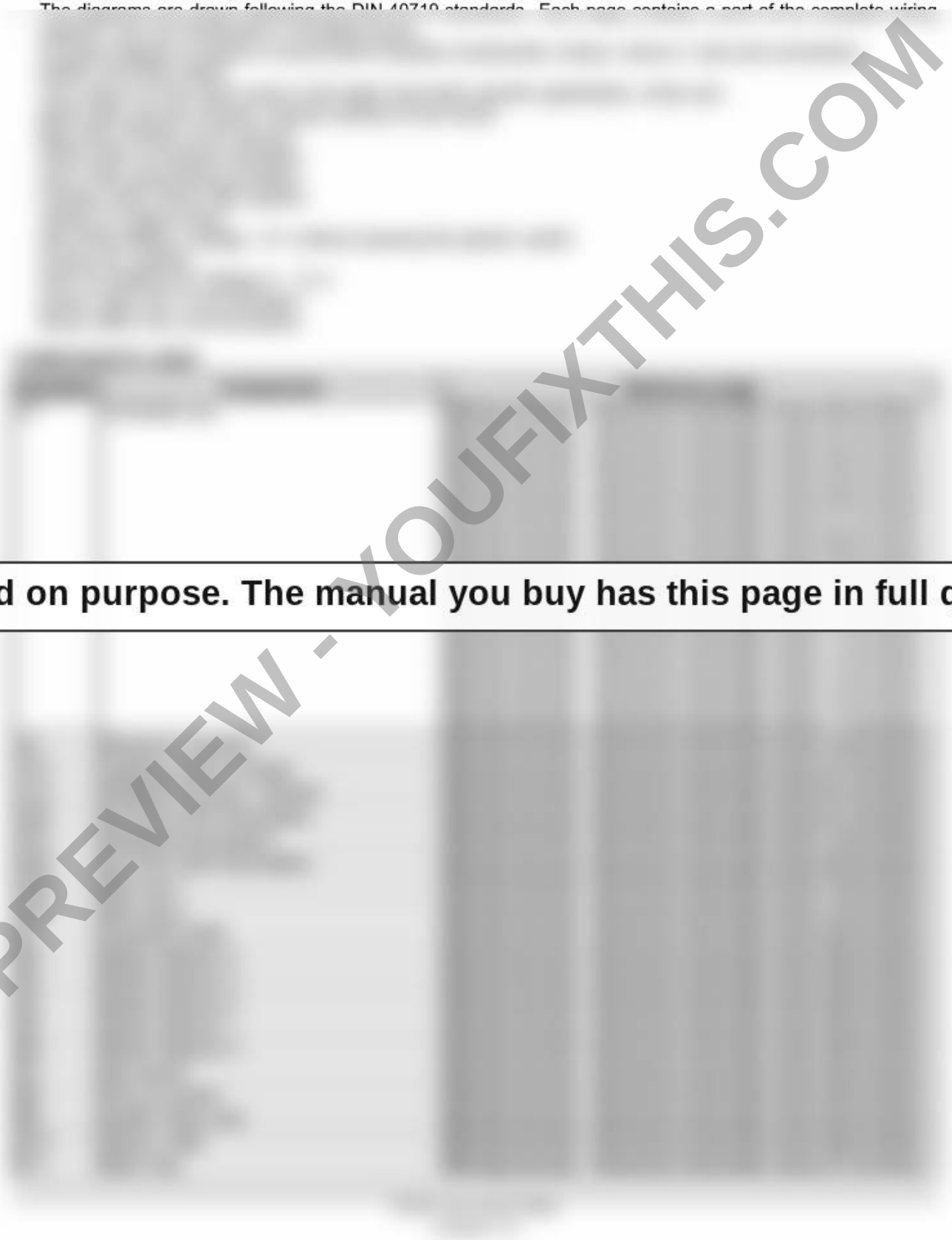
ELECTRICAL POWER SYSTEM - Component identification From serial number 4700

WIRING DIAGRAMS

The diagrams are drawn following the DIN 40719 standards. Each page contains a part of the complete wiring



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Wiring harness - Electrical schematic frame 10 KNOTTER Fans From serial number 4700

Component Identifier	Component
A-1	Controller box

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General specification From serial number 4700

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Foreword

How to use this manual

The information in this manual has been structured using the Integrated Coding Environment (ICE). Ice is the new way in which technical information is created, stored and retrieved in the new Technical Information Database.

ICE coding classifies each repair operation three ways

1. Location: the function or component on the machine to which the information is related e.g. Hydraulic pump
2. Information type: the type of information describing the repair operation e.g. Remove
3. Product: The machine that the repair operation is created for e.g. Big Balers

Section contents

Your manual is first divided in sections. Sections are classified according to the main functions of the product. Each Section has a Contents page listed in numerical order and Index page listed in Alphabetical order.

Big Baler Section Contents

- DISTRIBUTION SYSTEMS
  (A) that interact with most of the functions of the product. it contains the central parts of the hydraulic, electrical, electronic, pneumatic and lubrication systems.
- POWER PRODUCTION
  (B) all of the functions related to the production of power to operate the vehicle PTO drive line and related parts.
- POWER TRAIN
  (C) all of the functions related to the transfer of power to operate the vehicle though a gearbox.
- TRAVELLING
  (D) this encompasses all parts related to the parts when the vehicle moves across ground, wheels, axles and brakes.
- BODY AND STRUCTURE
  (E) and protective shields
- CROP PROCESSING
  (K) encompasses all parts related to crop handling from pick up to bale ejecting.

Chapter contents

The Section is then divided in Chapters. Chapters are classified according to the specific function of the systems and components. Each Chapter has a contents page listed in numerical order and index page listed in alphabetical order.

An example of a Chapter and Contents, is the component e.g. LUBRICATION SYSTEM Greasing, where the system is sub divided and described through

1. TECHNICAL DATA, information describing specifications or characteristics of any function or system of the machine.
2. FUNCTIONAL DATA, information describing design and functional behavior of any function or system (How it works)
3. SERVICE, information describing the maintenance and repair of the machine.
4. DIAGNOSTIC, information related to systems, troubleshooting and errors.

An example of the ICE Coding reference could look like:

Pump - Overhaul (A.60.B.20-F.10.A.40)

- A = SECTION
- 60 = CHAPTER
- B.20 = COMPONENT
- F = SERVICE

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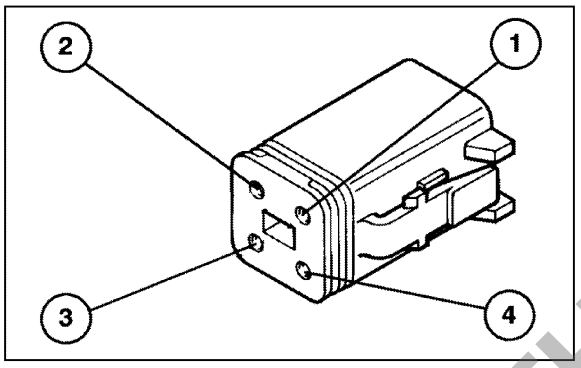
Greasing system - B15

Pin No	Cable and Colour	To	Pin No	Function
1	BL 1	X4	7	GND
2	Y 1	X4	6	A10

X136

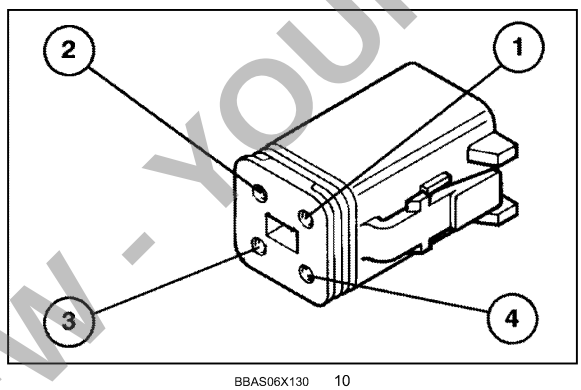


BBAS06X130 9

Trip motor - M 004

Pin No	Cable and Colour	To	Pin No	Function

X137



BBAS06X130 10

Moisture controller

Pin No	Cable and Colour	To	Pin No	Function
1	OR 1.5	SPL12	X	Splice
3	BL 1.5	SPL13	X	Splice
4	GN 1.5	SPL14	X	Splice
2	Y 1.5	SPL15	X	Splice

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Knotter Fans - Frame 10

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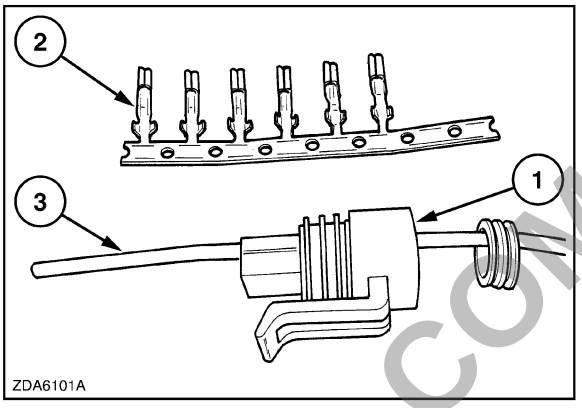
18. Wire and terminal installation. The seal and housing **(1)** must be installed on the wire(s) **(3)**PRIOR to crimping the terminal(s) **(2)** on the wire(s).

NOTE: *Refer to the electrical wiring diagrams to determine the correct hole location for each of the wires.*



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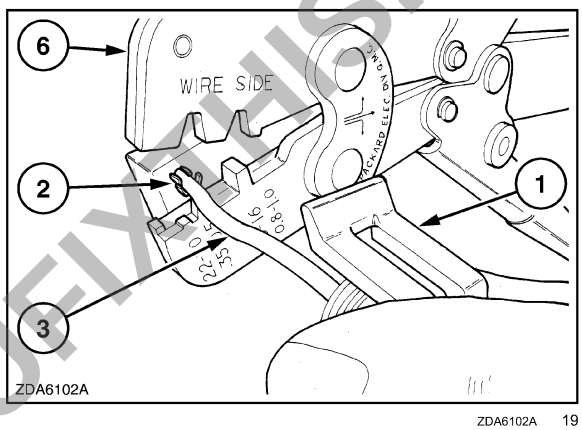
19. Now crimp the spade **(2)** onto the wire **(3)** with the special crimp tool **(6)**. Mind the housing and seal are on the wire first.



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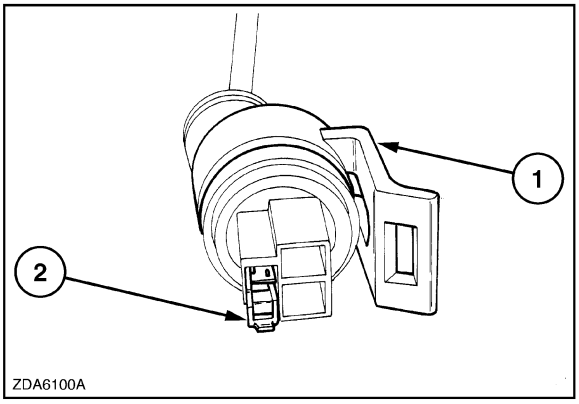
20. Check that the lip on the spade is lifted, for positive retention. Pull the wire and spade **(2)** back into the housing **(1)**. The spade has ONLY ONE particular position with respect to the housing cavity that it will fit in. Do not force the spade in the cavity, rotate the spade a ¼ turn at the time with respect to the cavity in the housing, until the position is found that it will slide in easily. Check that the seal is properly seated in the rear end of the housing.



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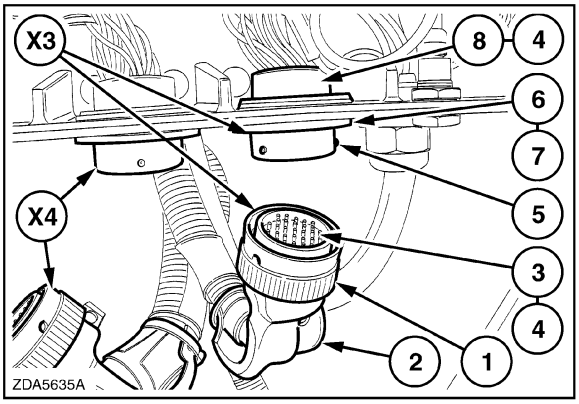
21. X3,X4, X6 - CONNECTORS ON THE FUSE BOARD MODULE:
Plug
1 housing Deutsch HD 36-24-31 PE
2 **90 °** elbow Deutsch WHDS 24-2
3 pin, male #16 Deutsch 0460-202-16141
4 blanking plug #16 Deutsch 114017 duplicated part number with or #16 Deutsch 114017 North America Socket
4 blanking plug #16 Deutsch 114017 duplicated part number with or #16 Deutsch 114017 North America
5 housing Deutsch HD 34-24-31 SE
6 lockwasher 24 Deutsch 112264
7 flat nut 24 Deutsch 112263-90
8 pin, female #16 Deutsch 0462-201-16141



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229-Pick up speed sensor short to ground From serial number 4700

Cause:
Possible failure modes: sensor **(B8)**, controller.

Solution:

1. Select the pick up speed **(B8)** routine in the dealer diagnostic input pages, refer to **Monitor - Service instruction (A.50.A)**.
   The voltage bargraph will be **<0.5 V** and the digital option will show defect.
2. Disconnect **X113**.
   Does the voltage bargraph is higher then **7.2 V**.
   Replace sensor **(B8)**.

   A. Else continue with **3**
3. Disconnect **X4** Pin 14.
   Does the voltage bargraph read higher than **7.2 V**.
   Repair wire MT 024 YE
   Else try with new Baler Controller of known performance.

Wiring harness - Electrical schematic frame 17 (A.30.A.88 - C.20.E.17)

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306-Motor trip system From serial number 4700

Cause:
Possible failure modes: controller, relay **(K15)**, wires.

Solution:

1. Select the monitor for motor trip system on (refer to operators manual)
   Check if **(K15)** is operational.
   If not replace **(K15)** or try with new Baler Controller of known performance

   A. Else go to **2**

2. Remove **(K15)** and check for **12 V** between pin 1 and 2.
   If **12 V** replace **(K15)**

   A. Else go to **3**

3. Measure between **X34** pin 19 and **(K15)**pin 2.
   If **12 V** check or replace flat cable **X34** to **X31**.
   Else try with new Baler Controller of known performance

Wiring harness - Electrical schematic frame 16 (A.30.A.88 - C.20.E.16)

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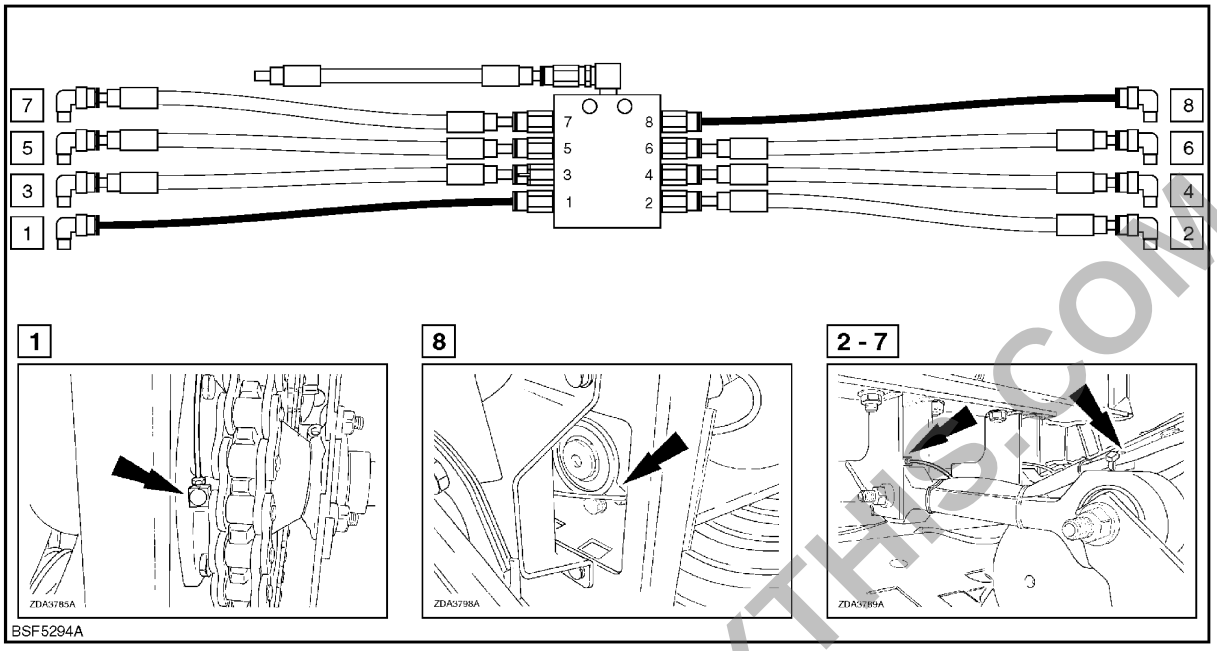

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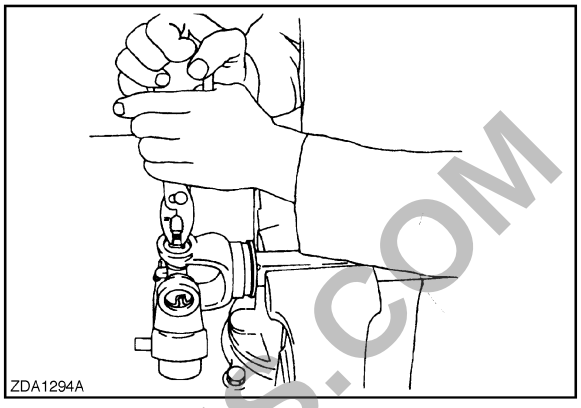
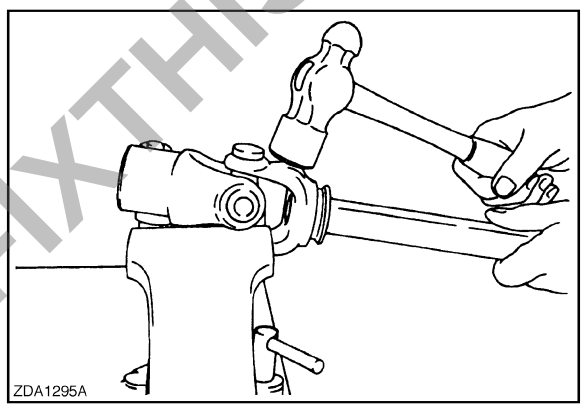
Drive system Standard U-Joint - Disassemble

1. Remove the four retaining rings on the cross to be repaired.



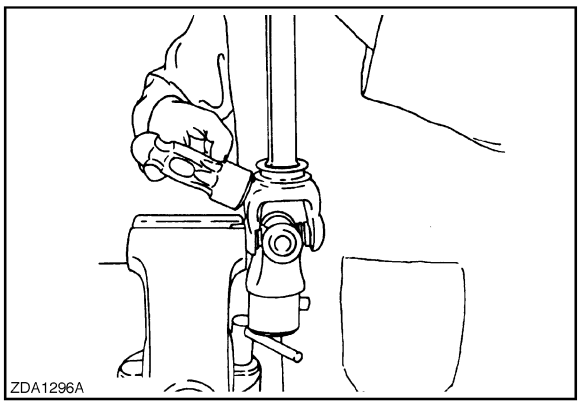
ZDA1294A 1

2. Set the U-Joint across the open jaws of a vise and drive the bearing cap out of the yoke.



ZDA1295A 2

3. Getting the bearing cap all the way out may require clamping it in a vise and tapping the yoke.



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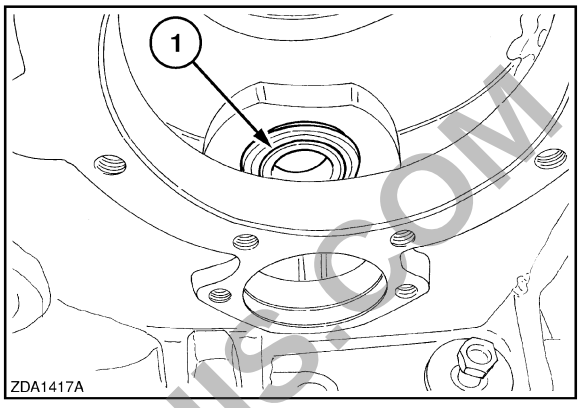
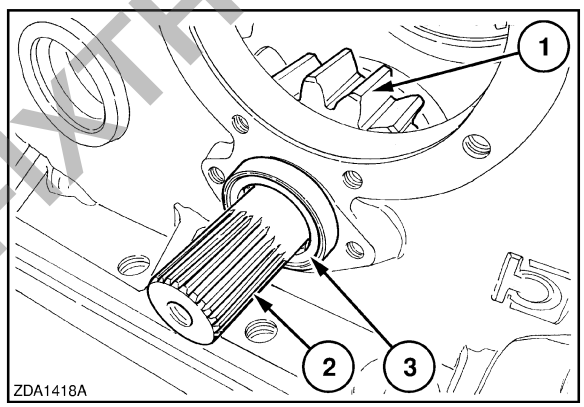
10. ASSEMBLY OF THE PACKER/ROTOR + PICK-UP DRIVE SHAFT : **Gearbox Shaft - Sectional view (C.50.B)**

11. Install bearing **(1)**.



ZDA1417A 8

12. Position gear **(1)** and insert shaft **(2)**. Install bearing **(3)**. Drive bearing **(3)** as far as possible into the housing.



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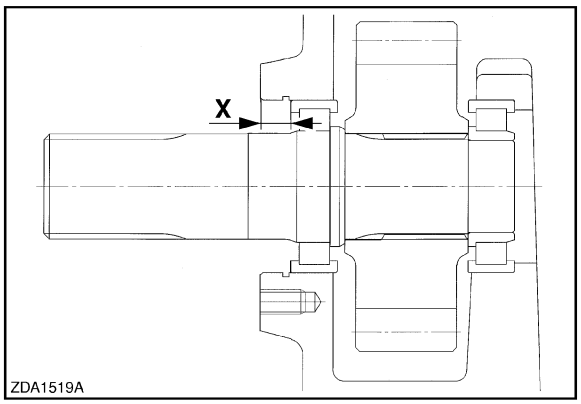
13. Measure the dimension X.



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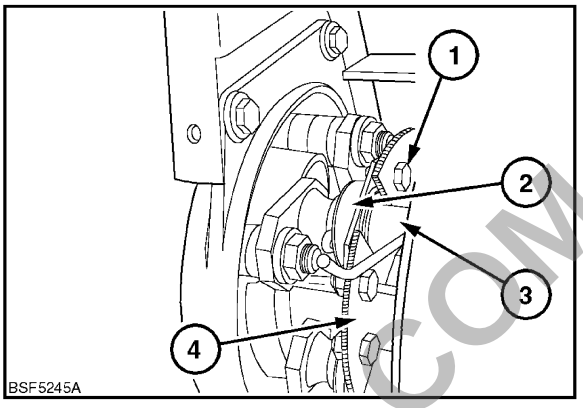
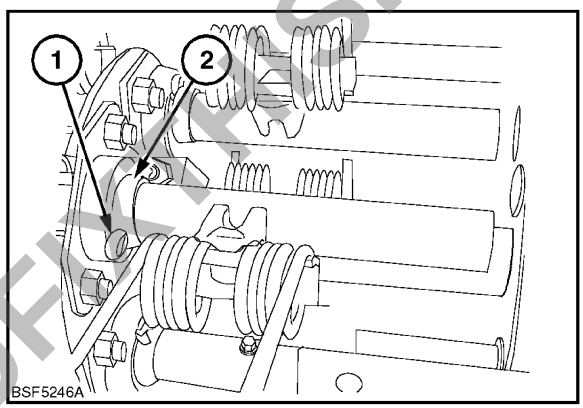
4. Remove the two bolts **(1)** in the bearing carriers **(2)** at both ends of each tooth bar **(3)** to be removed. The tooth bar is now free to be removed. Lift the tooth bar up out of the slot in the disc **(4)** and then to the left to free the cam follower.



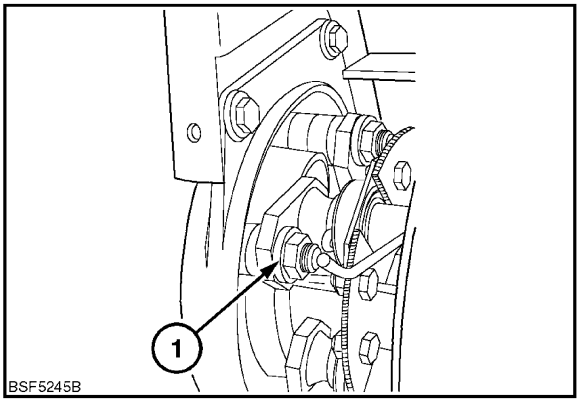
bsf5245a 4

5. Remove all the parts from the tooth bar. There is a special hardened cotter pin **(1)** holding the bearings **(2)** to the shaft. If the bearing on the left end of the tooth bar is the only failed part, only that part will have to be removed from the tooth bar.



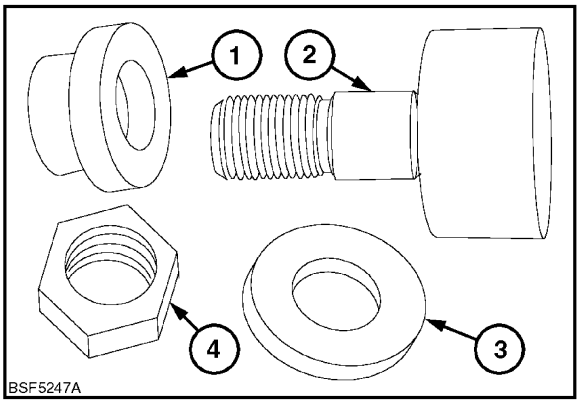
bsf5246a 5

6. If the tooth bar is to be replaced, remove all the parts including the cam follower bearing **(1)**. To remove the bearing, use an **8 mm 0.315 in** Allen wrench to hold the bearing and unscrew the nut. With the nut at the end of the bearing stud, use a soft punch to drive the cam follower bearing out of the arm on the end of the tooth pipe.



bsf5245b 6

7. The cam follower assembly consists of the spacer **(1)** bearing **(2)** washer **(3)** and nut **(4)**.



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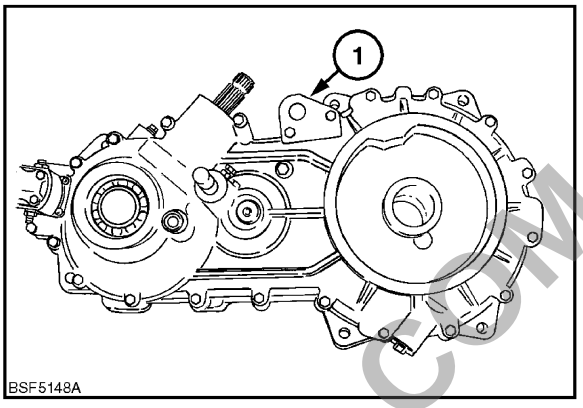
12. Using the lifting plate **(1)** and a lifting device, install the gearbox onto the baler.



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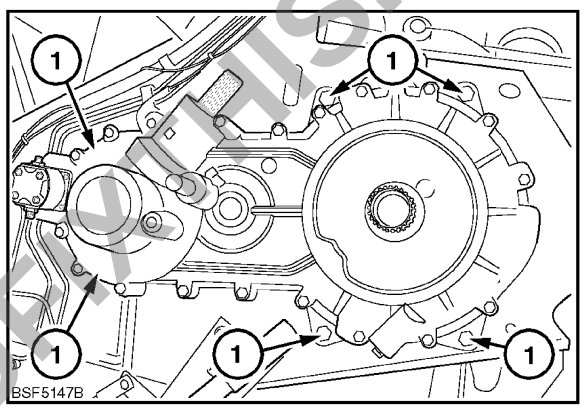
13. Install the six bolts **(1)** that secures the stuffer to the baler.

NOTE: *Do not tighten the bolts. The stuffer must be shimmed to the baler properly.*



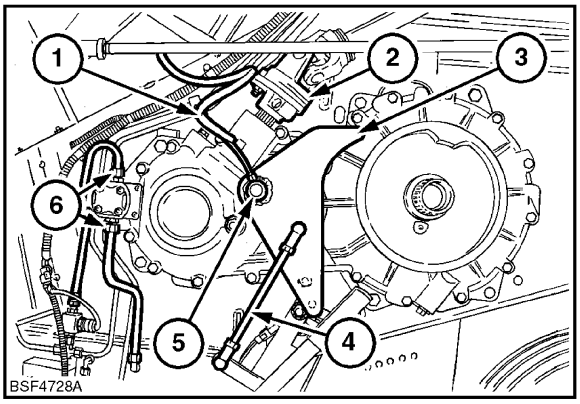
bsf5147b 12

14. The shimming procedures are as follows: w Remove the stuffer brake completely by removing the retaining ring do not loosen the brake nuts itself because this is a factory setting so that the stuffer shaft can be turned by hand.

NOTE: *Refer to brake removal procedures in this section if required.*

15. Tighten the bolt in the lower right hand corner of the gearbox securing it to the baler. Check if the stuffer shaft can still be turned by hand. It should be able to. Shim the remaining five bolt locations to prevent the gearbox from flexing or moving as they are tightened. Reinstall the stuffer brake.

16. Install stuffer engagement arm **(3)**shims and snap ring **(5)**. Reconnect oil lines **(1)** and control linkage **(4)** Reconnect telescopic U-joint assembly **(2)**. Reconnect hydraulic lines **(6)**.



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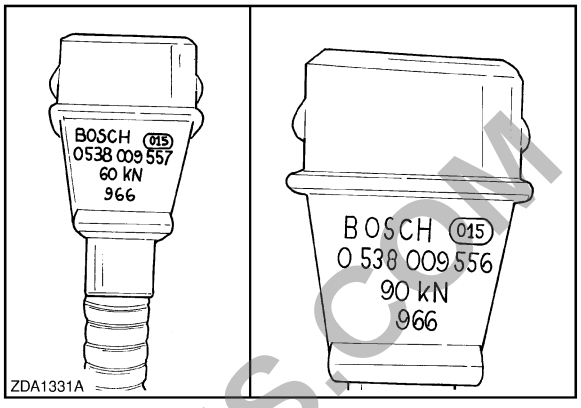
Sensing system - Visual inspection

1. The load sensor installed on 4 Knotter and 6 Knotter baler is not the same. Visually there is no difference, only **60 kN**4 Knotter and **90 kN** 6 Knotter is mentioned on the connector.



ZDA1331A 1

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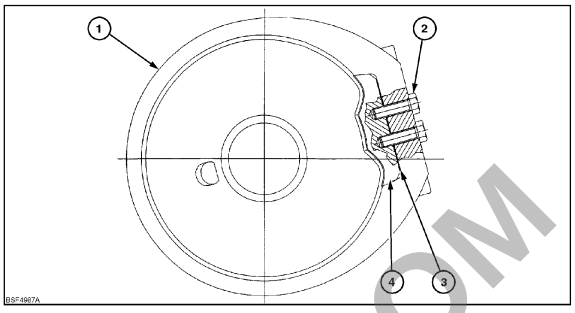
15. knotter clutch cam lobe replacement

NOTE: *The cam, 4, is an integral part of the gearbox. If the cam needs replacement, follow the directions to repair the gearbox.*



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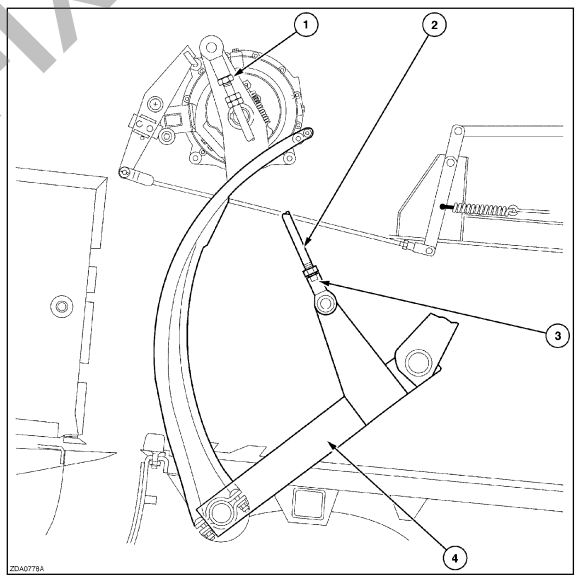
16. Remove the two M12 bolts **(1)** holding the lobe in the cam. Take out the lobe **(2)** and the shims **(3)** under the lobe. Install the new lobe. Tighten the two bolts together, alternating between the bolts until a torque of **35-40 Nm** . Measure the gap under the lobe with a thickness gauge. Determine the average gap. Remove the bolts. Add the required shims or slightly less to fill the gap. Add Loctite 270 to the bolts. Tighten the bolts together to a torque of **120 Nm**. Trip the clutch. Rotate the flywheel by hand. Check that the clutch resets properly.

17. knotter clutch roller and arm replacement:



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18. Trip the knotter. Rotate the flywheel in the normal direction until the tie rods **(2)** to the needle yoke **(1)** have no load. Lock the flywheel and do not rotate it while the gearbox is removed. Remove the bolt through the lower left ball joint **(3)**. Slide the ball joint off the pin. Loosen the top jam nut **(4)**. Screw the tie rod out of the top ball joint.

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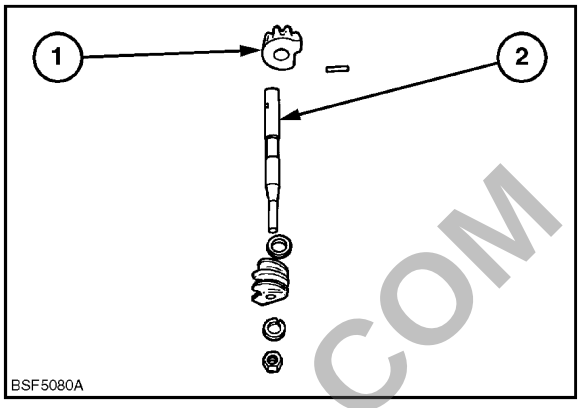
8. Worm gear **(1)** and shaft **(2)**.



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