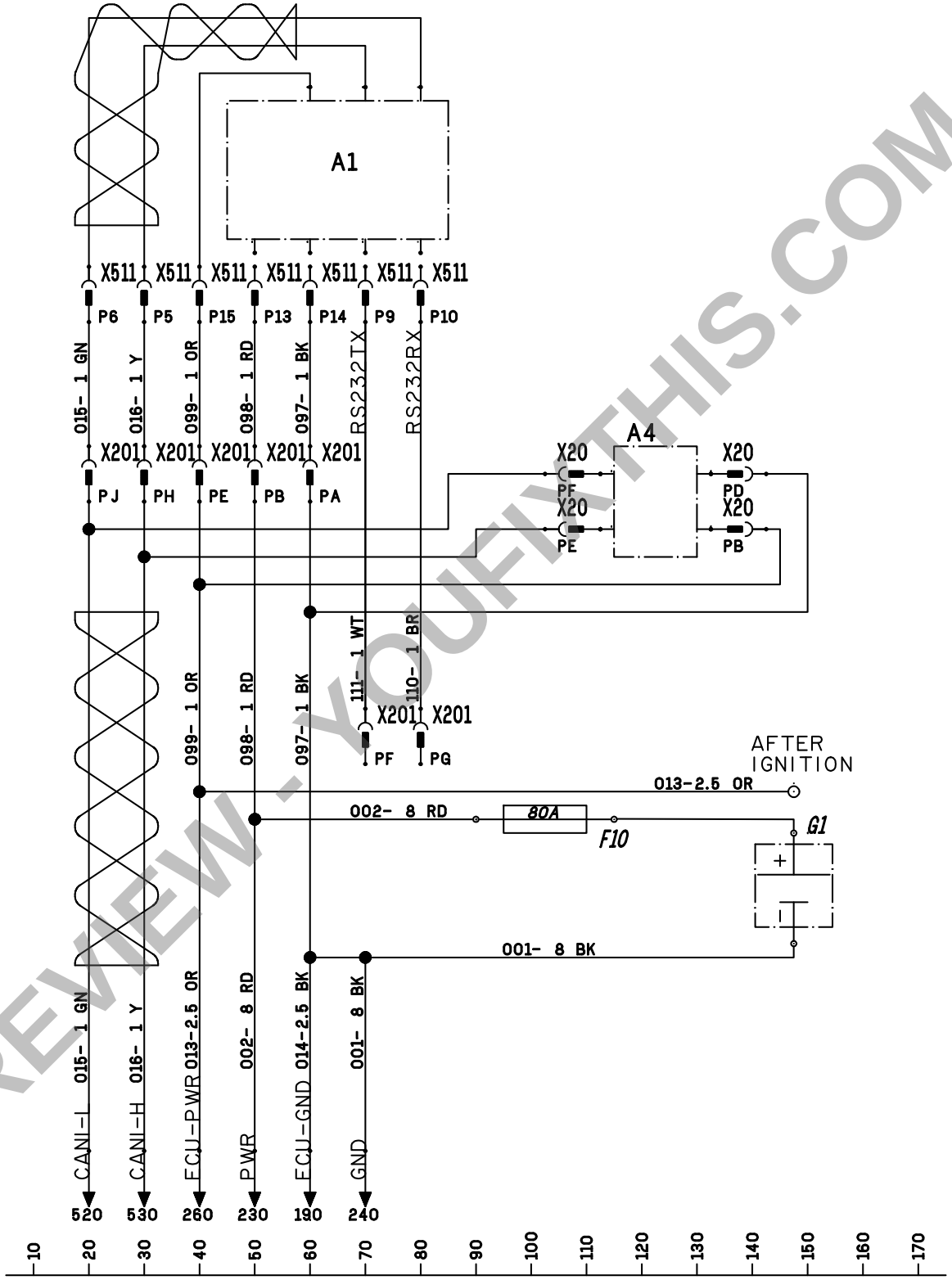
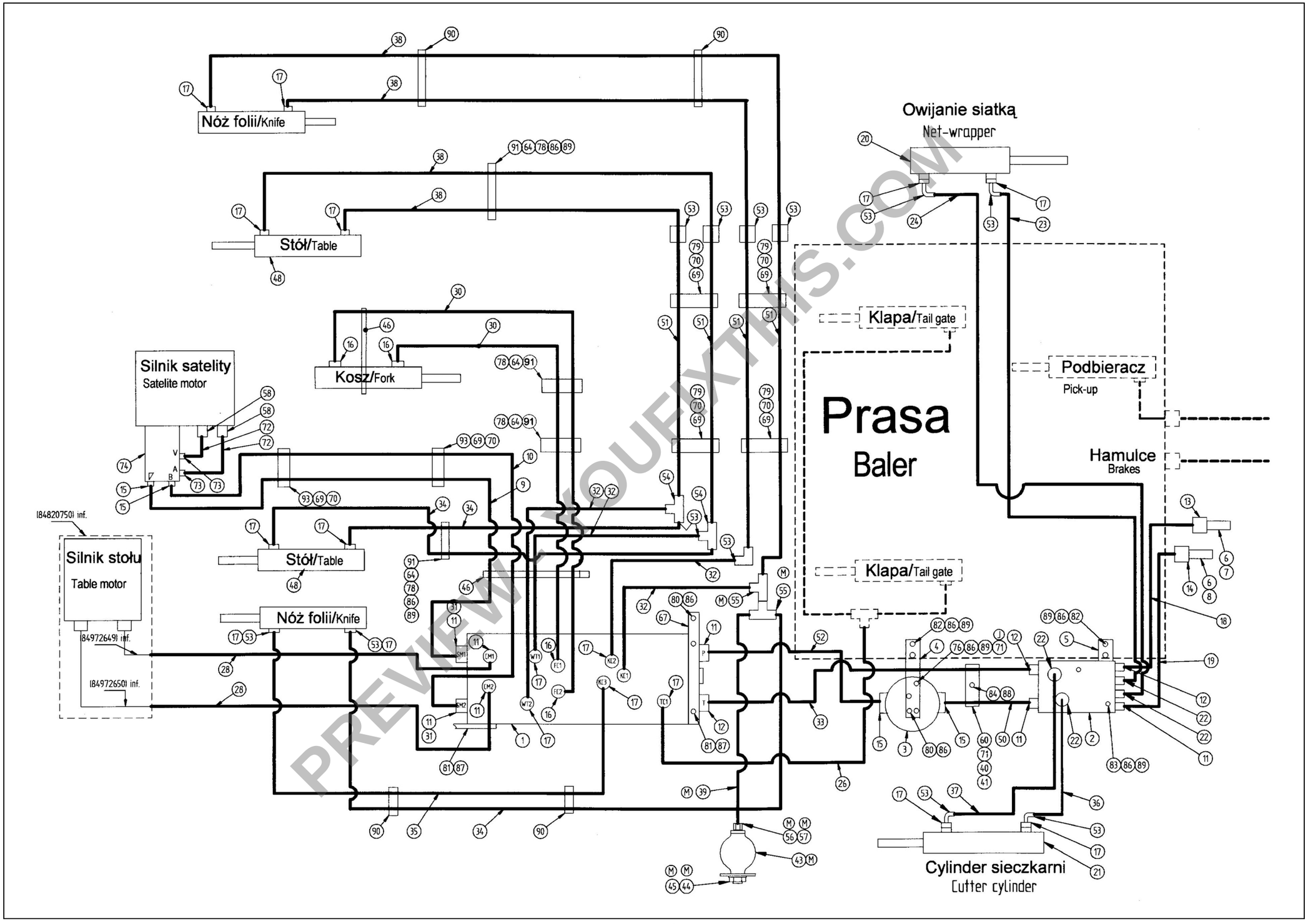
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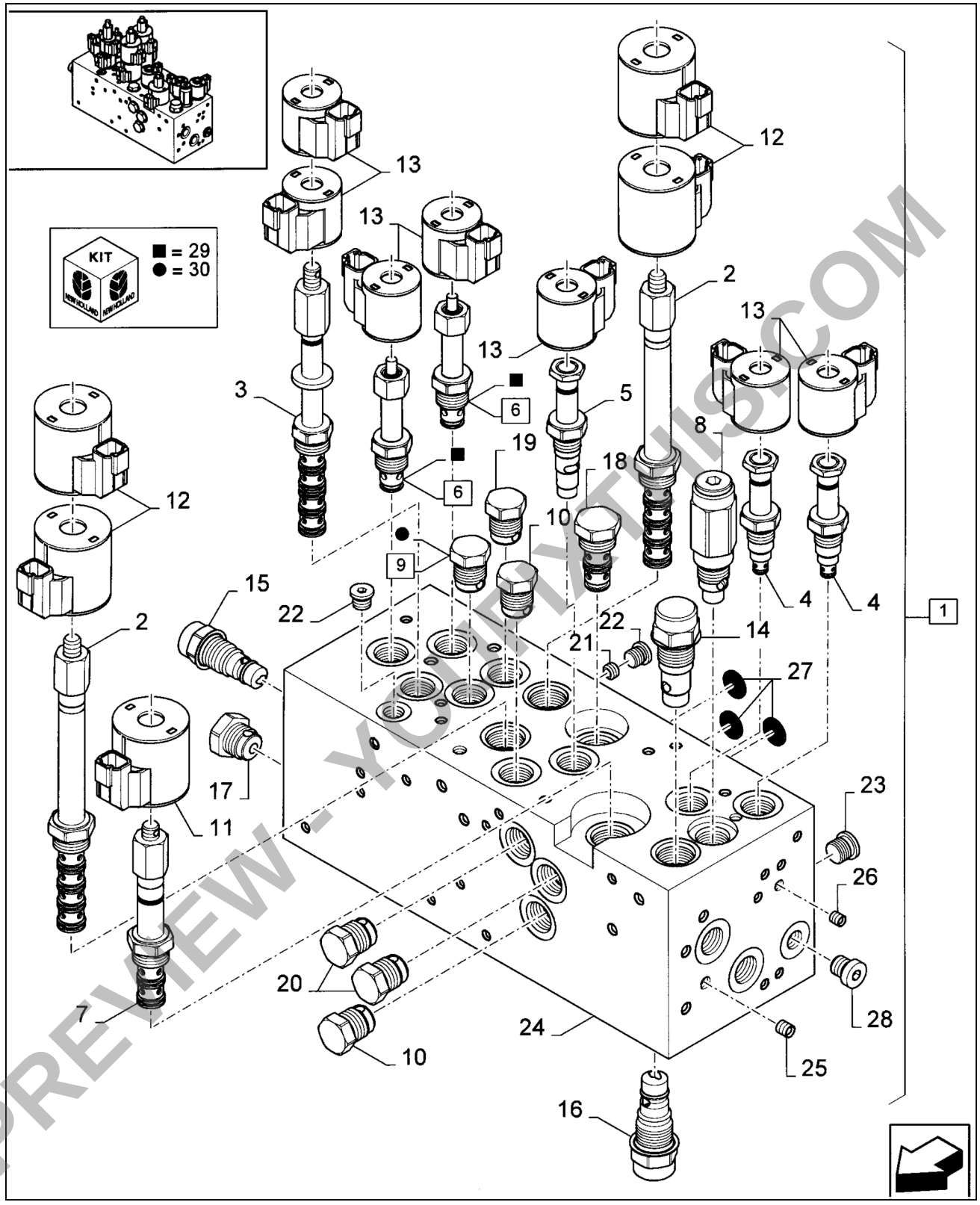
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HYD EXP V4 1

Rear manifold block from serial number 4694

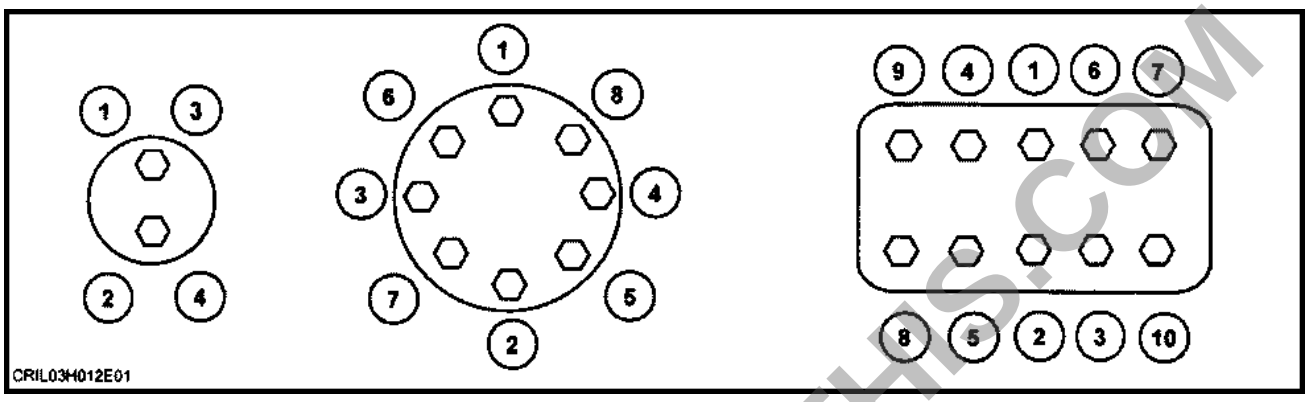
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Torque

Minimum hardware tightening torques Nm lb ft lb in for normal assembly applications unless otherwise stated

NOTICE: *Shown below is the suggested initial torque tightening sequences for general applications, tighten in sequence from item 1 through to the last item of the hardware.*



df5019-1 1

Imperial hardware

Nominal Size	SAE GRADE 2 Unplated or Silver plated	SAE GRADE 2 plated w/ZnCr GOLD	SAE GRADE 5 Unplated or Silver plated	SAE GRADE 5 plated w/ZnCr GOLD	SAE GRADE 8Unplated or Silver plated	SAE GRADE 8 plated w/ZnCr GOLD	LOCK-NUTS GR.B w/GR5 BOLT	LOCK-NUTS GR.B w/GR8 BOLT
1/4	6.2 Nm 55 lb in	8.1 Nm 72 lb in	9.7 Nm 86 lb in	13 Nm 112 lb in	14 Nm 121 lb in	18 Nm 157 lb in	6.9 Nm 61 lb in	9.8 Nm 86 lb in
5/16	13 Nm 115 lb in	17 Nm 149 lb in	20 Nm 178 lb in	26 Nm 229 lb in	28 Nm 250 lb in	37 Nm 324 lb in	14 Nm 125 lb in	20 Nm 176 lb in
3/8	23 Nm 17 lb ft	30 Nm 22 lb ft	35 Nm 26 lb ft	46 Nm 34 lb ft	50 Nm 37 lb ft	65 Nm 48 lb ft	26 Nm 19 lb ft	35 Nm 26 lb ft
7/16	37 Nm 27 lb ft	47 Nm 35 lb ft	57 Nm 42 lb ft	73 Nm 54 lb ft	80 Nm 59 lb ft	104 Nm 77 lb ft	41 Nm 30 lb ft	57 Nm 42 lb ft
1/2	27 Nm 42 lb ft	73 Nm 54 lb ft	87 Nm 64 lb ft	113 Nm 83 lb ft	123 Nm 91 lb ft	159 Nm 117 lb ft	61 Nm 45 lb ft	88 Nm 64 lb ft
9/16	81 Nm 60 lb ft	104 Nm 77 lb ft	125 Nm 92 lb ft	163 Nm 120 lb ft	176 Nm 130 lb ft	229 Nm 169 lb ft	88 Nm 65 lb ft	125 Nm 92 lb ft
5/8	112 Nm 83 lb ft	145 Nm 107 lb ft	174 Nm 128 lb ft	224 Nm 165 lb ft	244 Nm 180 lb ft	316 Nm 233 lb ft	122 Nm 90 lb ft	172 Nm 127 lb ft
3/4	198 Nm 146 lb ft	256 Nm 189 lb ft	306 Nm 226 lb ft	397 Nm 293 lb ft	432 Nm 319 lb ft	560 Nm 413 lb ft	217 Nm 160 lb ft	305 Nm 226 lb ft
7/8	193 Nm 142 lb ft	248 Nm 183 lb ft	495 Nm 365 lb ft	641 Nm 473 lb ft	698 Nm 515 lb ft	904 Nm 667 lb ft	350 Nm 258 lb ft	494 Nm 364 lb ft
1.0	289 Nm 213 lb ft	373 Nm 275 lb ft	742 Nm 547 lb ft	960 Nm 708 lb ft	1048 Nm 773 lb ft	1356 Nm 1000 lb ft	523 Nm 386 lb ft	739 Nm 545 lb ft

Metric hardware

Nominal Size	CLASS 5.8 UNPLATED	CLASS 5.8 UNPLATED	CLASS 8.8 UNPLATED	CLASS 8.8 UNPLATED	CLASS 10.9 UNPLATED	CLASS 10.9 UNPLATED	LOCKNUT CL.8 w/CL8.8 BOLT
M4	1.7 Nm 15 lb in	2.2 Nm 19 lb in	2.6 Nm 23 lb in	3.4 Nm 30 lb in	3.7 Nm 33 lb in	4.8 Nm 42 lb in	1.8 Nm 16 lb in
M6	5.8 Nm 51 lb in	7.6 Nm 67 lb in	8.9 Nm 79 lb in	12 Nm 102 lb in	13 Nm 115 lb in	17 Nm 150 lb in	6.3 Nm 56 lb in
M8	14 Nm 124 lb in	18 Nm 159 lb in	22 Nm 195 lb in	28 Nm 248 lb in	31 Nm 274 lb in	40 Nm 354 lb in	15 Nm 133 lb in

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Contents

HYDRAULIC - PNEUMATIC - ELECTRICAL - ELECTRONIC SYSTEMS - A

FAULT CODES - 50.A

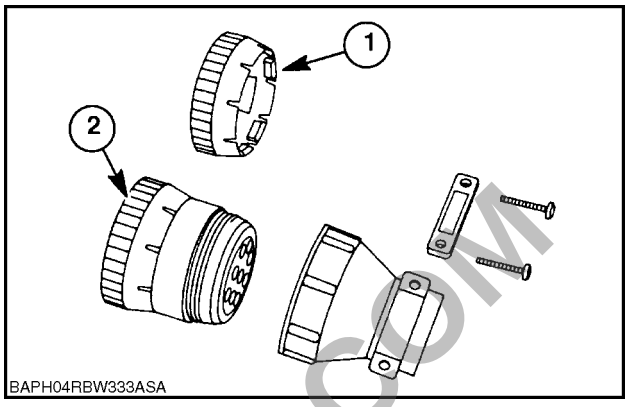
FUNCTIONAL DATA
ELECTRONIC SYSTEM
Fault code index 3

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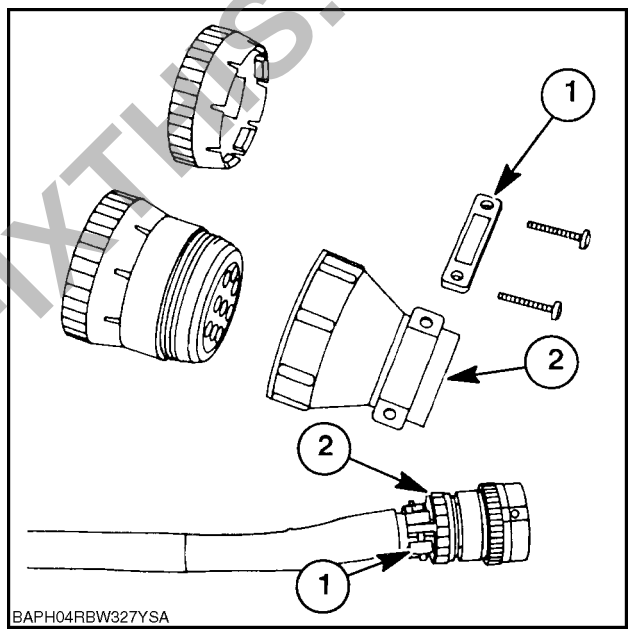
Connector - Overhaul

1. Deutsch-type wire harness connectors are used in the monitor system to connect the harnesses to the controller, junction box and operator panel. The connectors can be repaired using tools
   Extraction tools
   Crimping pliers
   Electrician's pliers
   Installing a new ring on a plastic connector body
   If the ring **(1)** on a plastic connector body is broken, it can be replaced with a new one without removing the connector from the harness. Remove all parts of the broken ring. Align the new ring with the end of the body **(2)** and carefully push it over the rib on the body.



BAPH04RBW333ASA 1

2. Replacing a connector body
   The same procedure is used for both the plastic connector as shown at the top of and for the metal connector as shown at the bottom.
   1. Remove the cable clamp **(1)** from the connector.
   2. Unscrew the clamp end cap **(2)**.



BAPH04RBW327YSA 2

3. Slide the rubber boot's **(1)** over the harness as far as possible to expose the wires.
   4. Remove the wires from the connector as described below.
   5. Install the wire terminals in the new connector as described on the next page. NOTE: Refer to the Bale Command Plus™ monitor wiring diagram to determine the correct hole location for each wire. Install a plug in any unused holes in the connector.
   6. Reinstall the rubber boot's **(1)** followed by clamp end cap **(2)** and cable clamp **(1)**.

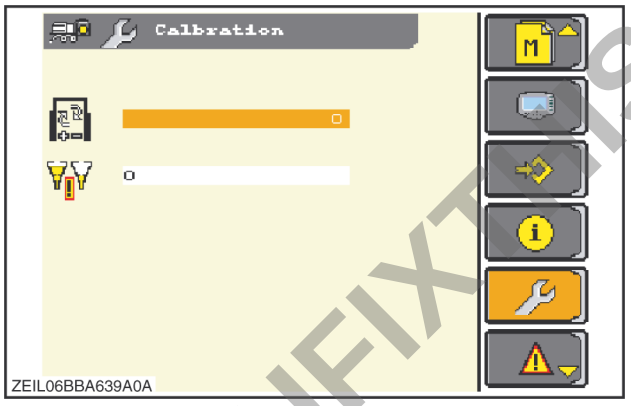
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Calibration

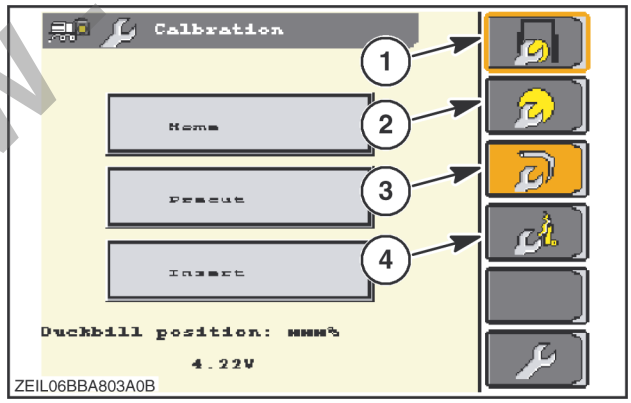
The examples discussed so far are the items that you can have input to and correct or test as appropriate.
Shown now are the Calibration options that when selected the baler software will correct.
Normally calibration is used when new components have been fitted and the baler is required to consider new component variations, this process is similar to when new software is loaded onto a PC.
IMPORTANT: Calibration is not intended as an Operator aid but a tool to be used to help keep the machine at optimum performance by the Dealer. Following are the items that can be calibrated to achieve correct functioning of the machine in the event of a component change or after adjustments.

Main film wraps
NOTE: Main film wraps can be set here to exceed the number of layers above those shown on the screen, and is at the discretion of the operating situation.
Bale shape alarm:
Bale shape if difference left and right is more than preset you will get an error.



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Overview of further calibration selection
1. Satellite
2. Bale density
3. Duckbill - net insert
4. CropCutter™ knives

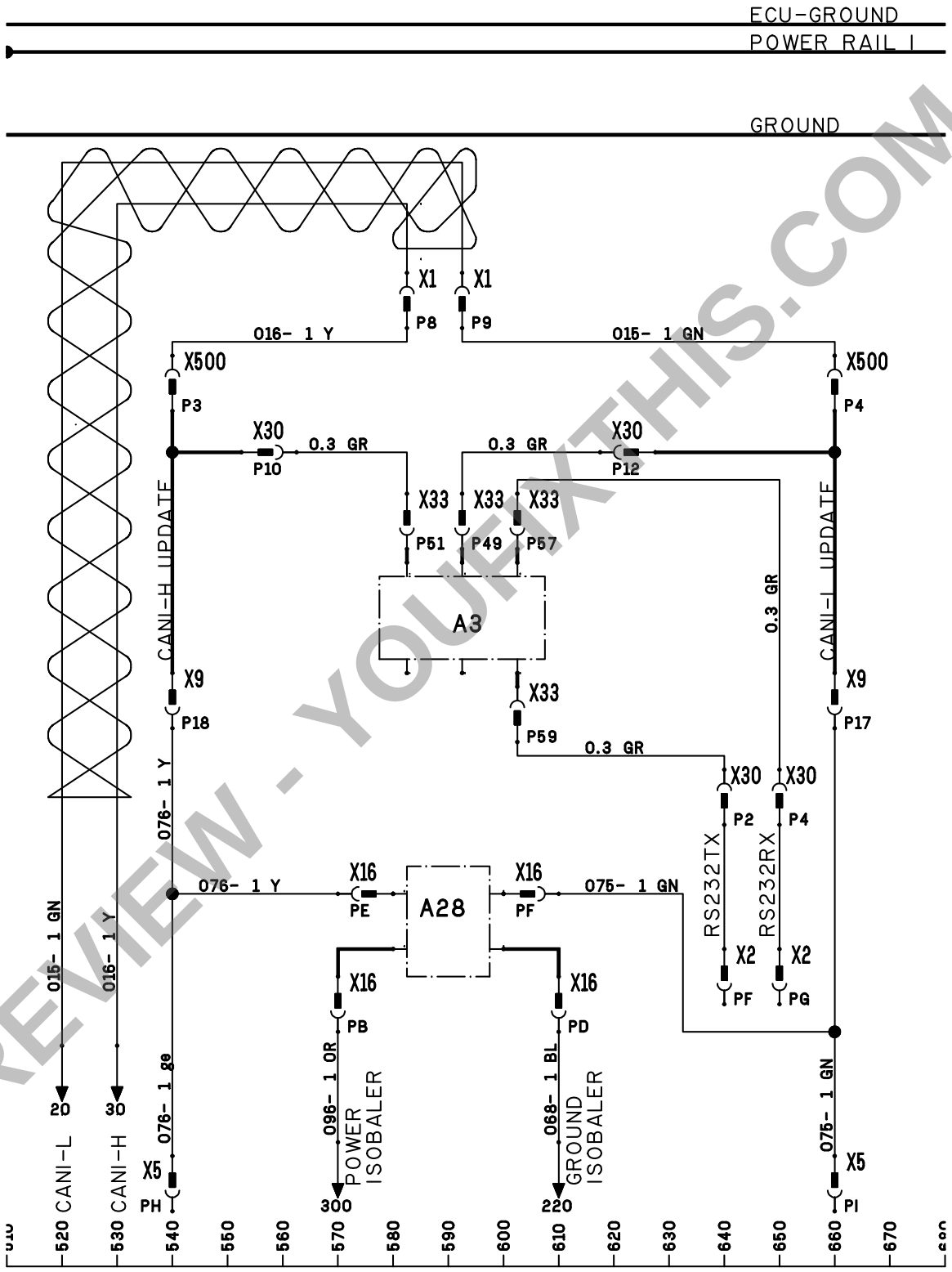


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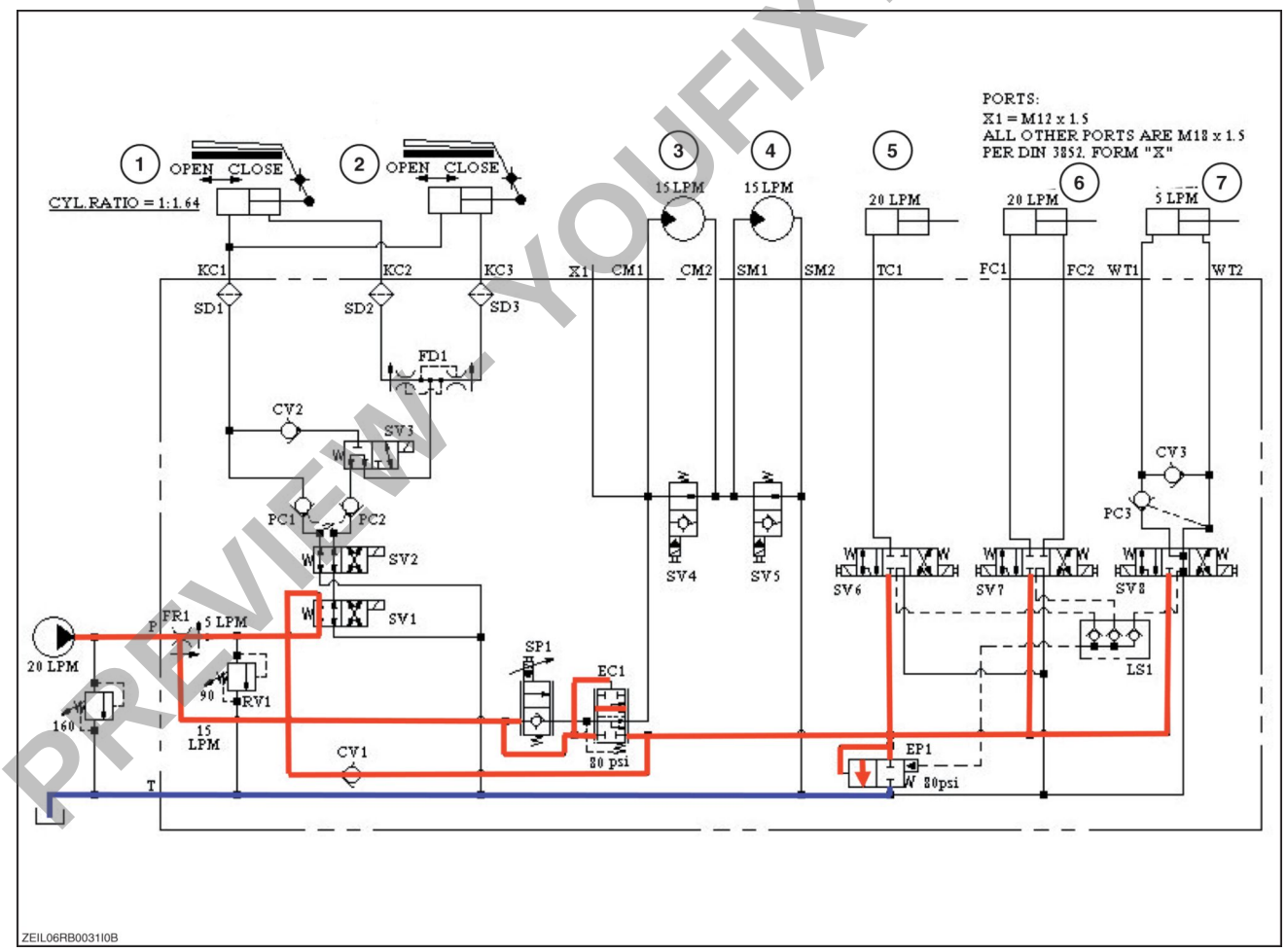
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SECONDARY HYDRAULIC POWER SYSTEM - Hydraulic schema From Serial Number 4694

Legend to schematic diagrams on Baler Wrapper machines from Serial No 4694

Item No	Description	Function
1	Film knife cylinder - Left hand	To raise knife to load film and close to cut film
2	Film knife cylinder - Right hand	To raise knife to load film and close to cut film
3	Table motor	Rotates the conveyor chain during film wrapping
4	Wrapper motor	Rotates the satellite and wraps film onto bale
5	Tailgate cylinder	Raises tailgate to allow bale drop
6	Bale fork cylinder	Bale fork lifts bale to wrapping table
7	Table cylinder	Tilts table to drop bale and returns table to horizontal

NEUTRAL refer to figure 1
- No functions used, motor started
- Oil comes from pump and enters valve block at port **(P)**, **20 L/min**.
- Flow regulator **(FR1)** divides oil flow in a **5 L/min** priority flow for the knives, and a **15 L/min** flow to other functions.
- Proportional valve EC1 will start to open at **5.5 bar**, so the full **20 L/min** can pass.
- A check valve **(CV1)** assures the correct functioning of the load sensing **(EP1)**
- Load sensing for tailgate, fork and table tilting is achieved with **(EP1)** and check valves at **(LS1)**
- A pilot line at **(EP1)** is used to push **(EP1)** to the right, thus assuring oil return of **20 L/min** to **(T)** port at valve block.



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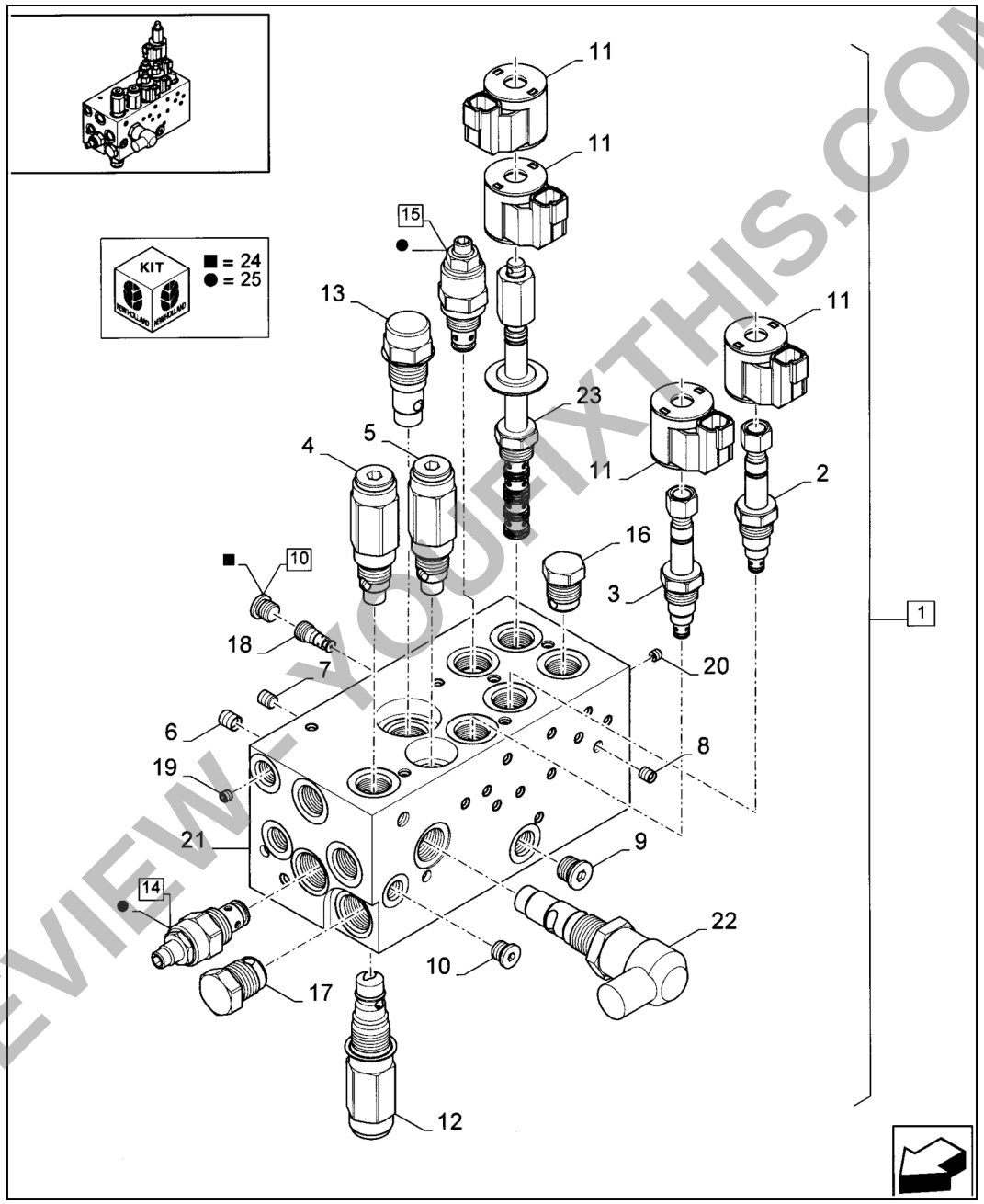
Neutral

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SECONDARY HYDRAULIC POWER SYSTEM - Exploded view From Series 4694, 4714

The baler wrapper functions are controlled by the WCM software of which determines when and which operating valves are used. The following is an exploded view of the front manifold operating valves and shown for display purposes only.
Refer to **SECONDARY HYDRAULIC POWER SYSTEM - Hydraulic schema (A.12.A)** for a full description of operation.



HYD EXP V5 1

Front manifold from serial number 4714.

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Torque Hydraulic connectors

NOTICE: *The following data is for general use on lightly oiled threads on standard hydraulic connectors, where the counter parts are made of steel.*

BSP Hydraulic adapter connections

Nominal size of nut	Tightening Torque
BSP SIZE	Nm (Lbsf/ft)
1/8	**17 Nm** (**12.5 lb ft**)
1/4	**34 Nm** (**25.1 lb ft**)
3/8	**47 Nm** (**34.7 lb ft**)
1/2	**102 Nm** (**75.2 lb ft**)
5/8	**122 Nm** (**90.0 lb ft**)
3/4	**149 Nm** (**109.9 lb ft**)
1	**203 Nm** (**149.7 lb ft**)
1-1/4	**305 Nm** (**225.0 lb ft**)
1-1/2	**305 Nm** (**225.0 lb ft**)
2	**400 Nm** (**295.0 lb ft**)

O.R.F.S Hydraulic connections

Nominal size of nut SAE Dash	Thread	Equivalent BSP size	Tightening torque NM (lbsf/ft)
-	9/16-18	1/8	**14 Nm** (**10.3 lb ft**)
-4	11/16-16	1/4	**24 Nm** (**17.7 lb ft**)
-6	13/16-16	3/8	**33 Nm** (**24.3 lb ft**)
-8	1-14	1/2	**44 Nm** (**32.5 lb ft**)
-10	1-3/16-12	5/8	**58 Nm** (**42.8 lb ft**)
-12	1-7/16-12	3/4	**84 Nm** (**62.0 lb ft**)
-16	1-11/16-12	1	**115 Nm** (**84.8 lb ft**)
-20	2-12	1-1/4	**189 Nm** (**139.4 lb ft**)
-24	-	1-1/2	**244 Nm** (**180.0 lb ft**)

Metric connections

Nominal size of nut	Tightening Torque
Metric nut	Nm (Lbsf/ft)
M10	**18 Nm** (**13 lb ft**).
M12	**20 Nm** (**15 lb ft**).
M14	**25 Nm** (**19 lb ft**).
M16	**45 Nm** (**33 lb ft**).
M18	**50 Nm** (**37 lb ft**).
M20	**70 Nm** (**52 lb ft**).
M22	**75 Nm** (**55 lb ft**).
M26	**110 Nm** (**81 lb ft**).
M33	**220 Nm** (**162 lb ft**).
M42	**230 Nm** (**170 lb ft**).
M48	**250 Nm** (**258 lb ft**).

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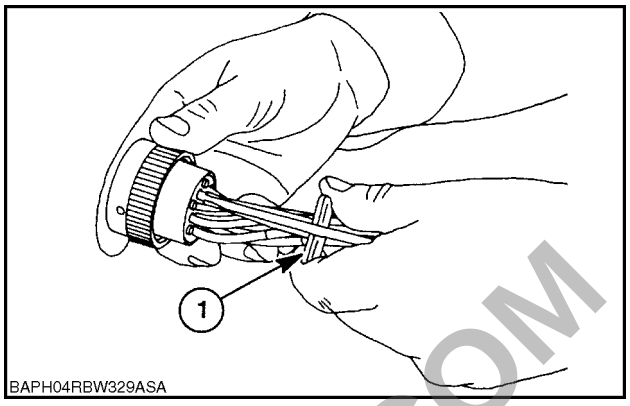
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Fault Code	Description	Fault Code Reference - FCR
2609	Tailgate latched NO SIGNAL CHANGE	**Tail gate - No address signal (K.70.B)**
2610	Home position satellite NO SIGNAL CHANGE	**WRAPPING AND TYING Film wrapping - No signal (K.55.E)**
2611	Speed satellite NO SIGNAL CHANGE	**WRAPPING AND TYING Film wrapping - No signal (K.55.E)**
2613	Transport fork down NO SIGNAL CHANGE	**Ejector arm - No signal (K.70.B)**
2708	Tailgate open sensor WRONG SIGNAL	**Tail gate - High signal (K.70.B)**
2713	Transport fork down WRONG SIGNAL	**Ejector arm - No address signal (K.70.B)**
2800	Pressure switch GROUND	**SECONDARY HYDRAULIC POWER SYSTEM - Short circuit to ground (A.12.A)**
2801	Bale density right LOW	**Density device - Low signal (K.50.D)**
2802	Bale density right HIGH	**Density device - High signal (K.50.D)**
2803	Bale density left LOW	**Density device - Low signal (K.50.D)**
2804	Bale density left HIGH	**Density device - High signal (K.50.D)**
2805	Position actuator duckbill LOW	**WRAPPING AND TYING Twine wrapping (duckbill) - Low signal (K.55.D)**
2806	Position actuator duckbill HIGH	**WRAPPING AND TYING Twine wrapping (duckbill) - High signal (K.55.D)**
2807	Position actuator knives LOW	**Knife engagement system - Low signal (K.30.E)**
2808	Position actuator knives HIGH	**Knife engagement system - High signal (K.30.E)**
2900	Main power relay OPEN / SHORTED	**ELECTRICAL POWER SYSTEM - Open or short circuit (A.30.A)**
2901	Revolving flashlight relay OPEN / SHORTED	**Electrical light - Open or short circuit (A.40.A)**
2902	Operating light relay OPEN / SHORTED	**Electrical light - Open or short circuit (A.40.A)**
2903	Buzzer relay OPEN / SHORTED	**Sensing system - Open or short circuit (A.30.A)**
2904	Tailgate opening relay OPEN / SHORTED	**Tail gate - Open or short circuit (K.70.B)**
2905	Tailgate closing relay OPEN / SHORTED	**Tail gate - Open or short circuit (K.70.B)**
2906	Fork up valve relay OPEN / SHORTED	**Ejector arm - Open or short circuit (K.70.B)**
2907	Fork down valve relay OPEN / SHORTED	**Ejector arm - Open or short circuit (K.70.B)**
2908	Table back valve relay OPEN / SHORTED	**EJECTING Round bale - Open or short circuit (K.70.B)**
2909	Table tipping valve relay OPEN / SHORTED	**EJECTING Round bale - Open or short circuit (K.70.B)**
2910	Knives opening valve relay OPEN / SHORTED	**Film cutter - Open or short circuit (K.55.E)**
2911	Knives closing valve relay OPEN / SHORTED	**Film cutter - Open or short circuit (K.55.E)**
2912	Table brake valve relay OPEN / SHORTED	**EJECTING Round bale - Open or short circuit (K.70.B)**
2913	Wrapper brake valve OPEN / SHORTED	**WRAPPING AND TYING Film wrapping - Open or short circuit (K.55.E)**
2914	Satellite speed valve relay OPEN / SHORTED	**WRAPPING AND TYING Film wrapping - Open or short circuit (K.55.E)**
2915	Pilot valve relay OPEN / SHORTED	**SECONDARY HYDRAULIC POWER SYSTEM - Open or short circuit (A.12.A)**
2916	Cutter knives IN relay OPEN / SHORTED	**Knife engagement system - Open or short circuit (K.30.E)**

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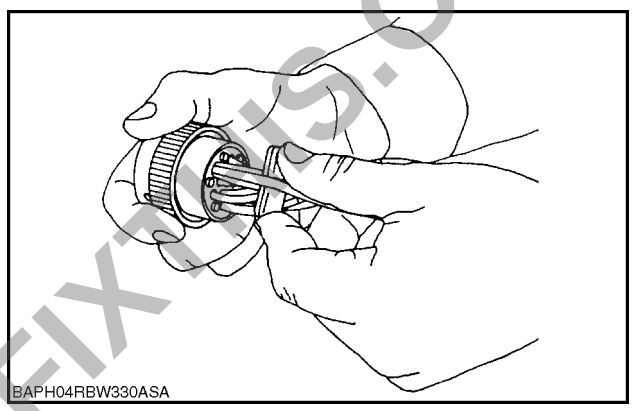
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4. Removing a wire from a connector
   1. Position the correct size extraction tool **(1)** on the wire to be removed from the connector as shown.



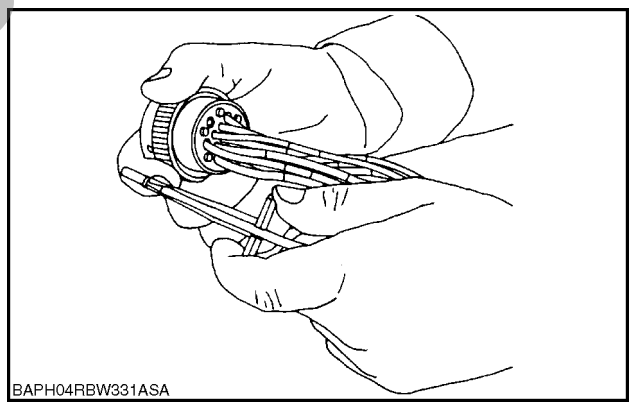
BAPH04RBW329ASA 3

5. Slide the tool along the wire and into the connector as shown until the tool unlocks the terminal from the connector body. This can usually be detected by listening for a click' as the terminal is released.



BAPH04RBW330ASA 4

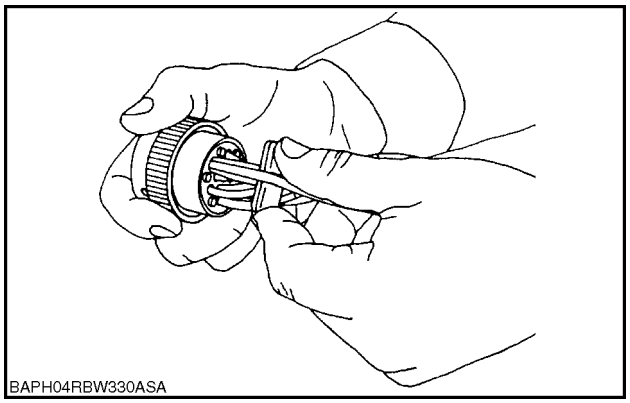
6. Pull the wire, tool, and terminal from the connector as shown.



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7. Installing a terminal in a connector
   To install a terminal in a connector, simply push the terminal and wire into the appropriate hole in the connector until it clicks into place.

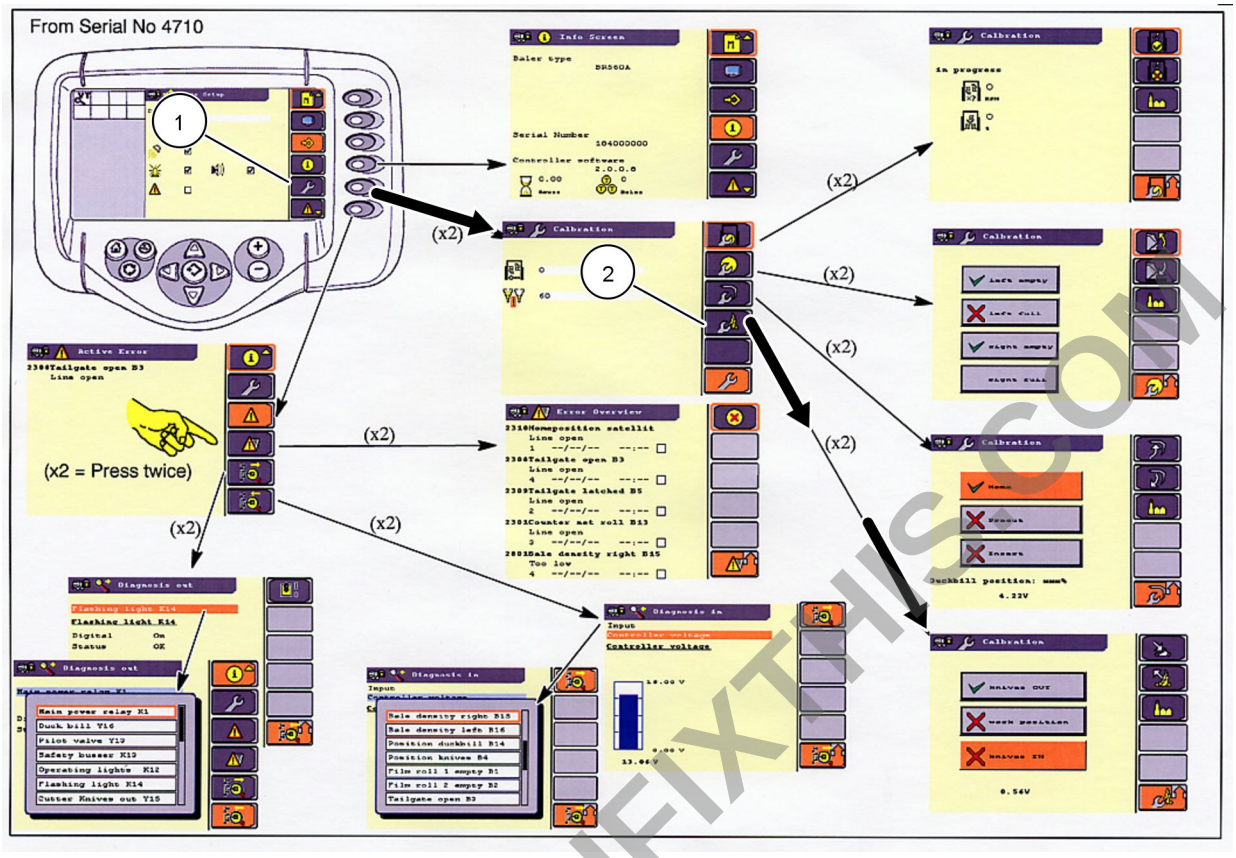
   NOTE: It is usually easier to use the extraction tool to reinstall the terminal. This can be done by placing the tool on the wire and part of the terminal as shown and then pushing the tool and wire into the connector as shown, until the clamp release is detected. Remove the tool and check to be sure the terminal is locked in the connector.



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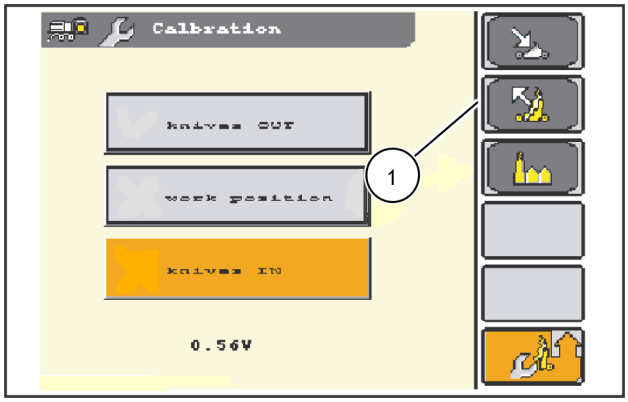


QRCB 4

User Screen

6. Check that all the linkages connected to the crop cutter cylinder sensor move freely, by pressing the adjacent soft keys **(1)** to (insert and retract) the knives a few times.

7. KNIVES OUT CALIBRATION.
Bring knives OUT (retract cylinder fully) and adjust potentiometer (only if necessary) till you see the value between **0.3 - 0.4 V** and tighten the screws. After adjustment use the adjacent buttons (inserting and retracting the knives) until the voltage stabilizes. Before confirming this position make sure the knives OUT button on the main screen is highlighted (orange). Confirm the knives OUT position a green tick should be seen when correct. If not adjust the potentiometer until you reach a value between **0.3 - 0.4 V**.
KNIVES IN CALIBRATION
Bring the knives IN by fully extending the cylinder. Push the enter button to confirm making sure the knives IN button on the main screen is high lighted (orange) as shown.
A green tick should be seen.



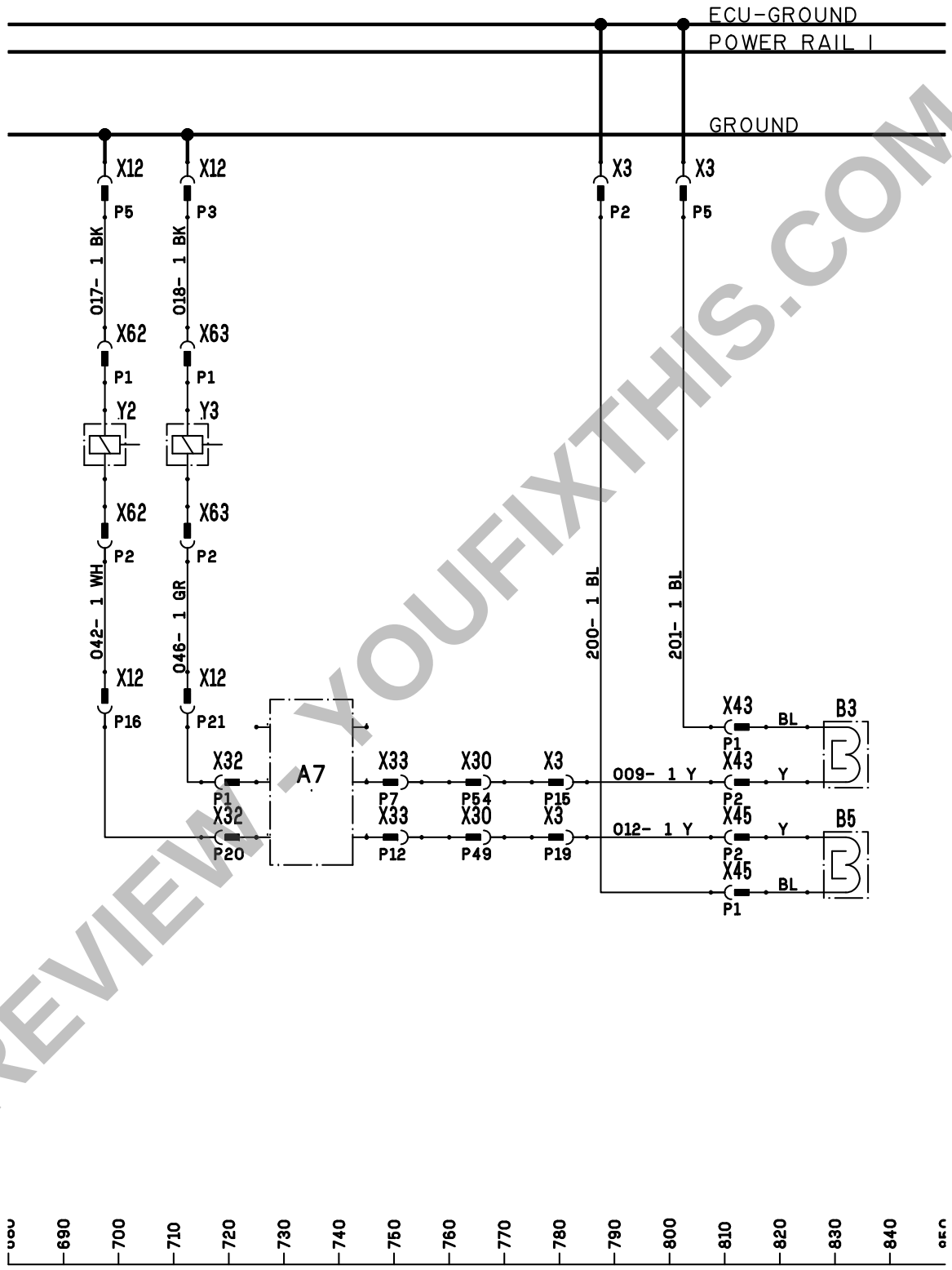
CUTTER_BLANK 5

Reference voltages

Function	Optimum Voltage	Default Voltage	Minimum Voltage	Maximum Voltage
Knives IN (cutting)	**3.5 V**	**3.613 V**	**3.125 V**	**4.863 V**
Work Position	**2.43 V**	**2.015 V**	**1.367 V**	**2.734 V**
Knives OUT	**0.34 V**	**0.488 V**	**0.293 V**	**0.781 V**

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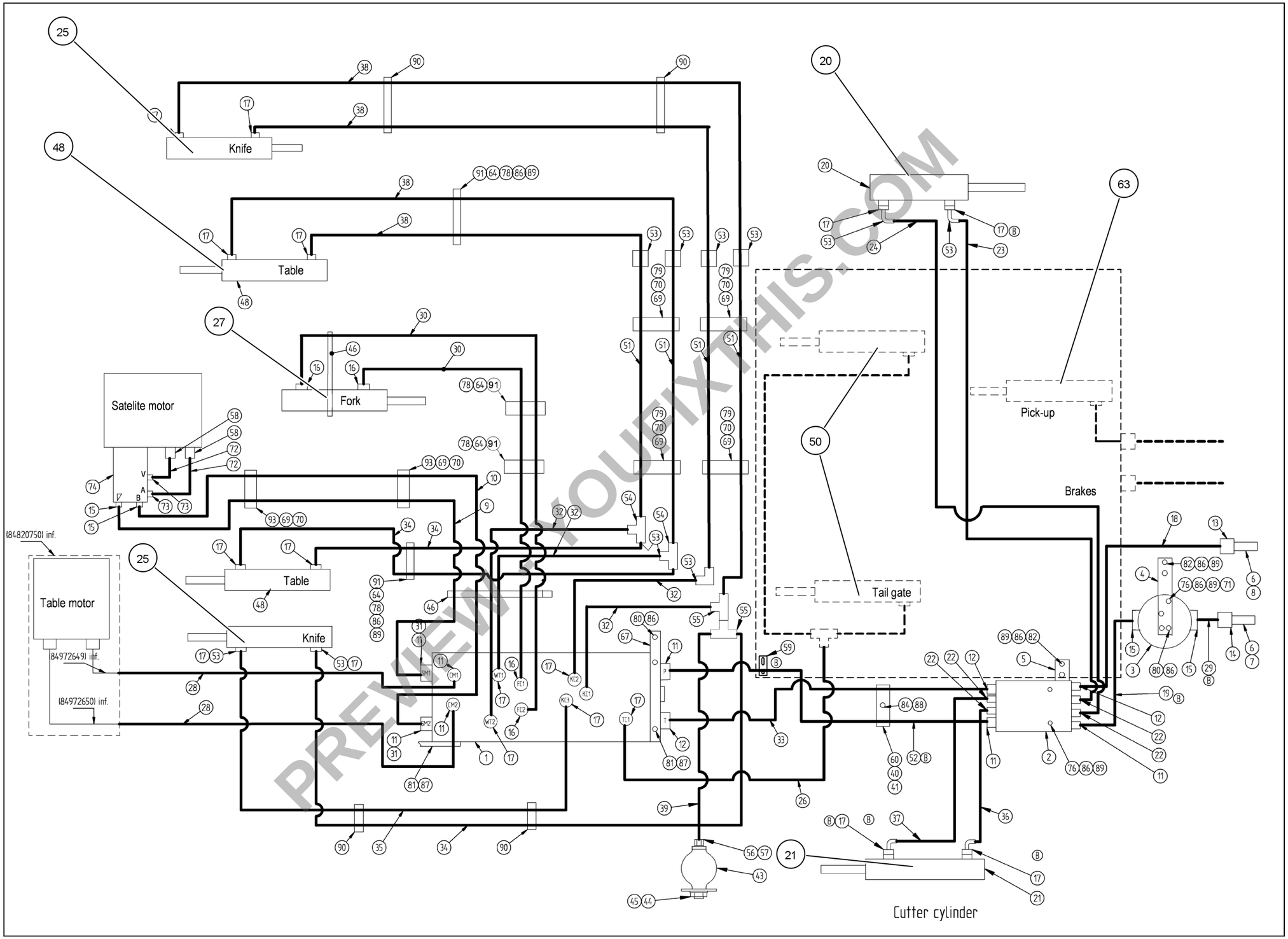
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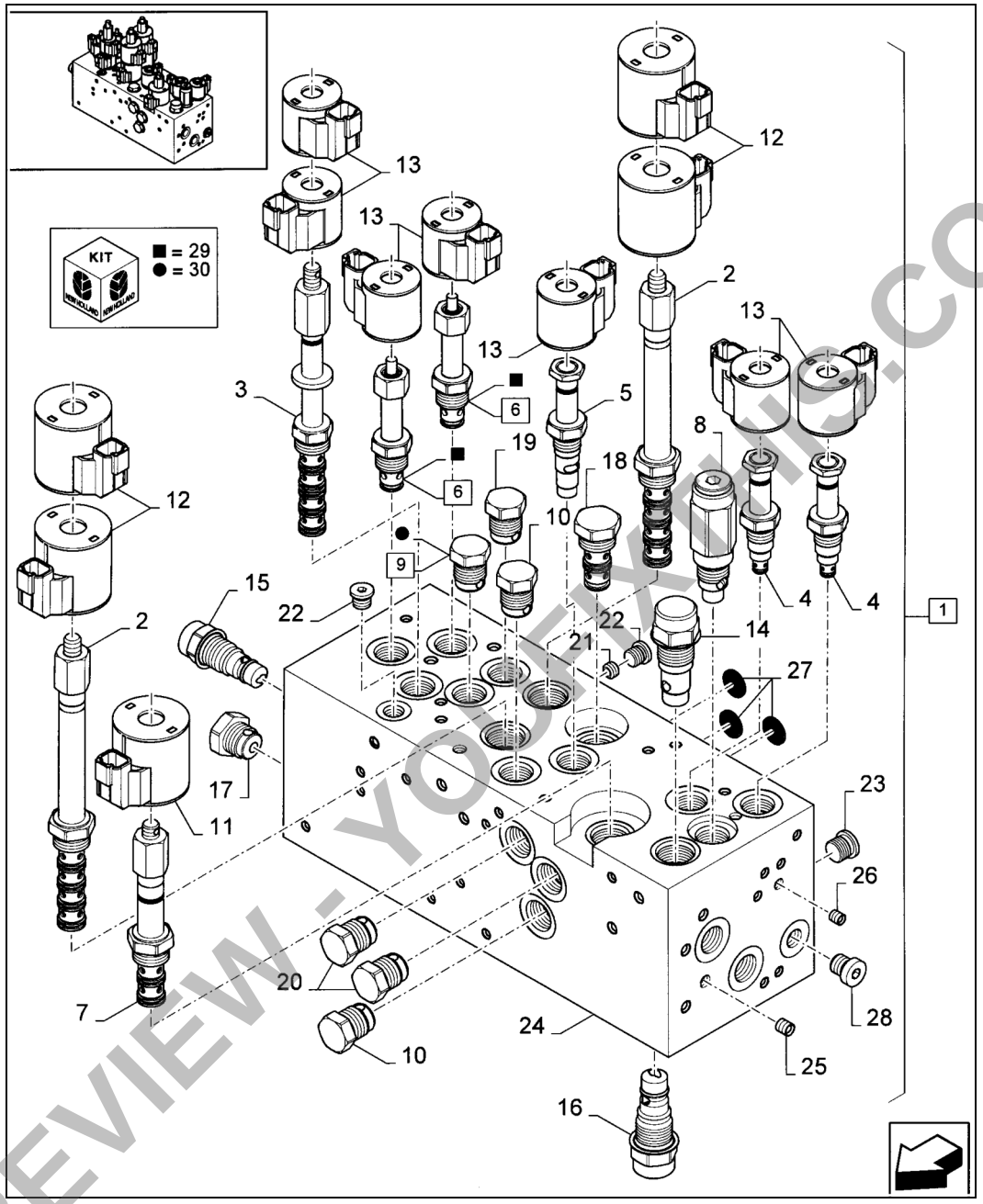


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CIRCUITII 1

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The following is an exploded view of the rear manifold operating valves and shown for display purposes only. Refer to **SECONDARY HYDRAULIC POWER SYSTEM - Hydraulic schema (A.12.A)** for a full description of operation.



HYD EXP V4 2

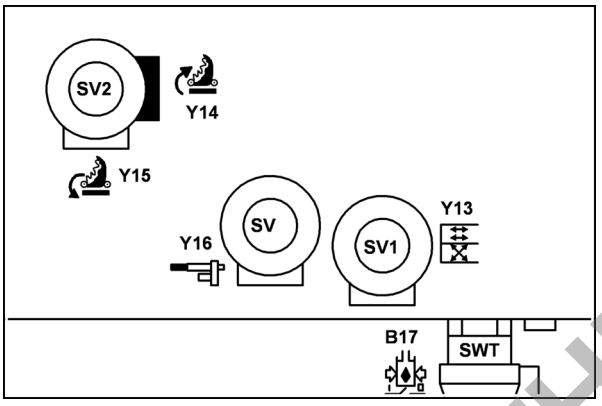
Rear manifold from serial number 4694

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Front Hydraulic Block - From serial number 4714

Valves	Torque value: VALVES INTO MANIFOLD BLOCK	Valves	Torque value: COILS TO VALVE SPOOL
SV1	**24.5 - 27.2 Nm (18.1 - 20.1 lbft)**	SV1	**6.5 - 9.5 Nm (57.5 - 84.1 lbin)**
SV2	**24.5 - 27.2 Nm (18.1 - 20.1 lbft)**	SV2	**6.5 - 9.5 Nm (57.5 - 84.1 lbin)**
SV3	**24.5 - 27.2 Nm (18.1 - 20.1 lbft)**	SV3	**6.5 - 9.5 Nm (57.5 - 84.1 lbin)**



FRONT_DECAL 2

Front manifold From Serial 4714

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ELECTRONIC SYSTEM - Fault code index

Reference	Description	Controller
2100	ELECTRICAL POWER SYSTEM General Connector , Connector X3 - Disconnected	
2102	ELECTRICAL POWER SYSTEM General Connector , Connector X6 - Disconnected	
2200	DISTRIBUTION SYSTEMS ELECTRICAL POWER SYSTEM General Battery , DIAGNOSTIC , Battery voltage too low	
2201	ELECTRICAL POWER SYSTEM General Battery , Battery voltage high	
2202	ELECTRICAL POWER SYSTEM General , 10 Volt reference low	
2203	DISTRIBUTION SYSTEMS ELECTRICAL POWER SYSTEM General , 10 Volt reference high	
2204	DISTRIBUTION SYSTEMS ELECTRICAL POWER SYSTEM General , 8 Volt reference low	
2205	DISTRIBUTION SYSTEMS ELECTRICAL POWER SYSTEM General , 8 Volt reference high	
2206	DISTRIBUTION SYSTEMS ELECTRICAL POWER SYSTEM General , 5 Volt reference low	
2207	DISTRIBUTION SYSTEMS ELECTRICAL POWER SYSTEM General , 5 Volt reference high	
2300	WRAPPING AND TYING Film wrapping , Sensor Knive in-out Open circuit	
2301	DISTRIBUTION SYSTEMS ELECTRICAL POWER SYSTEM General , Counter net roll Open circuit	
2306	DISTRIBUTION SYSTEMS ELECTRICAL POWER SYSTEM General , Film roll 1 empty sensor Open circuit	
2307	WRAPPING AND TYING Film wrapping Film holder , Short circuit to open	
2308	EJECTING Round bale Tail gate , Open circuit	
2309	EJECTING Round bale Tail gate , Open circuit	
2310	WRAPPING AND TYING Film wrapping Film holder , Open circuit	
2311	WRAPPING AND TYING Film wrapping Film holder , Open circuit	
2312	EJECTING Round bale Ejector arm , Open circuit	
2313	EJECTING Round bale Ejector arm , Open circuit	
2314	WRAPPING AND TYING Film wrapping Sensing system , Open circuit	

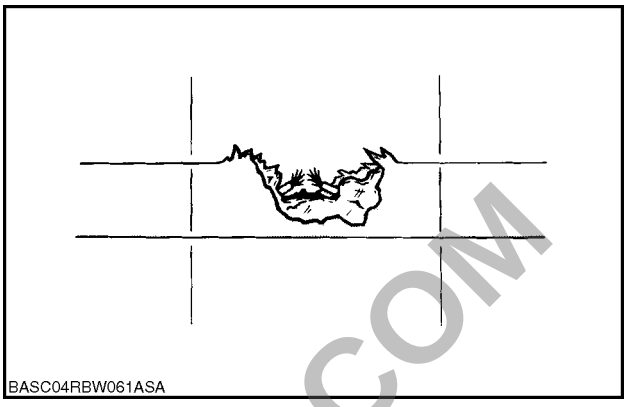
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Wiring harness - Repair

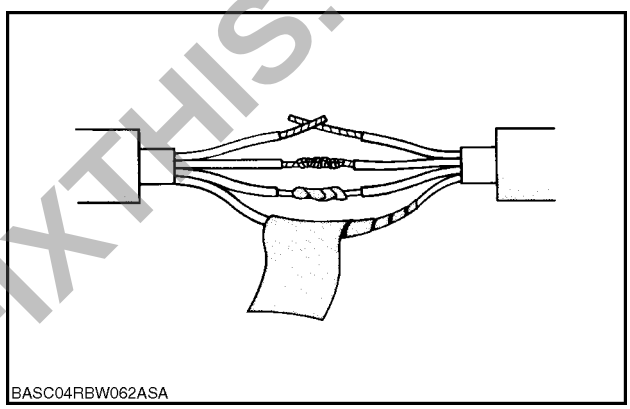
1. The following method to repair wiring is a temporary expedient only. Wiring should be replaced as soon as possible. Replacement of temporary repaired cables with new. Do not attempt to repair the wire on any system sensors as these are sealed and should only be replaced with a new component.

NOTE: *When conducting a cable repair it is important that only RESIN CORED SOLDER is used. Use of other types of solder may result in further cable damage.*



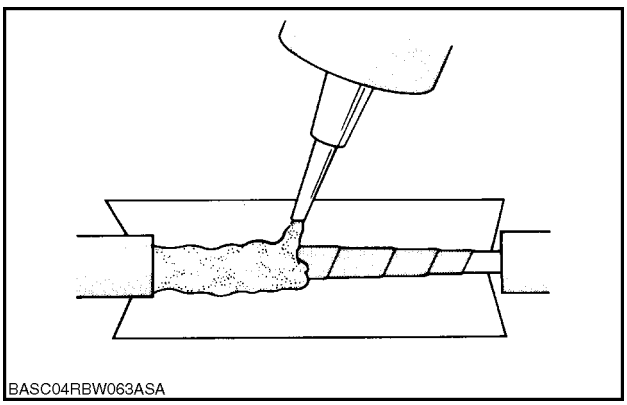
BASC04RBW061ASA 1

2. To carry out a temporary repair, proceed as follows:-
   1. Locate damaged portion of cable then cut away outer protective cover on both sides of the damaged area.
   2. Peel back the cable from both ends of the damaged area and carefully cut away the inner cable cover at the damaged area and strip about **mm 0.5 in** of insulation from the wires. Do not cut away any wire strands.
   3. Using a suitable solvent, clean about **50 mm 2.0 in** from each cover end. Clean the grey cable cover and the individual leads.



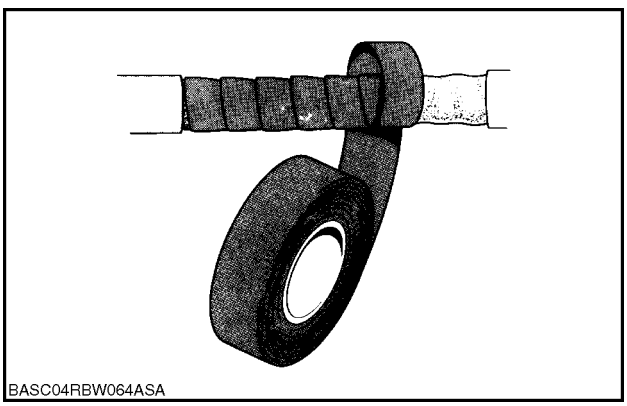
BASC04RBW062ASA 2

3. Twist two bare leads together for each damaged lead, being careful to match wire colours, then solder the leads using resin cored solder. Tape each repaired lead with vinyl insulation tape. Wind a layer of vinyl insulation tape up to the grey cable cover at each end of the repair section. Make a paper trough then apply silicon rubber compound (non hardening sealant) over the repaired section up to the cover ends. Sufficient sealant must be used to fill the ends of the cut away area.



BASC04RBW063ASA 3

4. Allow the compound to cure then cover the area with insulating tape taking the tape well over each end of the repair. An overlap of at least **50 mm 2.0 in** of tape at each end is necessary. Check to ensure the repair is satisfactory and secure the repaired cable so that repeat damage is avoided.

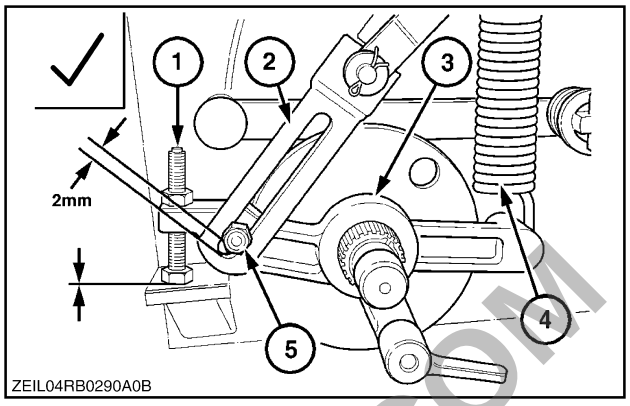


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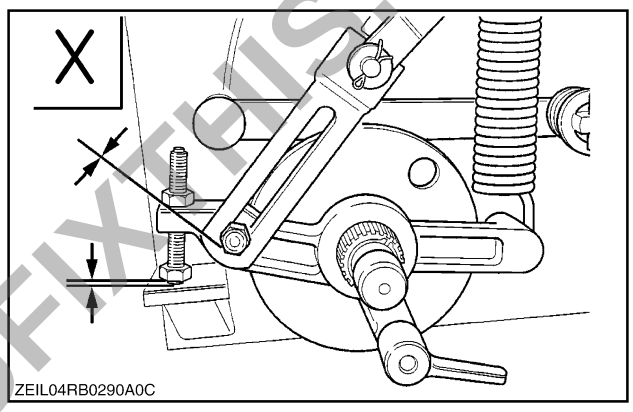
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8. WORK POSITION CALIBRATION
The knives work position is reached just before the bolt **(5)** on the knife control arm **(3)** bottoms out in the slot of the knife breakaway link **(2)**. In this position, the breakaway spring **(4)** holds the knives in cutting position, and the control arm is resting on the stop bolt **(1)**. The load of the breakaway spring is on the stop bolt, and not on the cylinder.
Extend/retract the crop cutter cylinder to have **2 mm** (**0.1 in**) between the lock nut **(5)** on the control arm and the bottom end of the knife breakaway link slot.
When the cylinder is in the correct position, confirm the calibration of the work position by pressing the enter button, make sure the button is highlighted on the main screen (orange). The voltage should be around **2.43 V**.



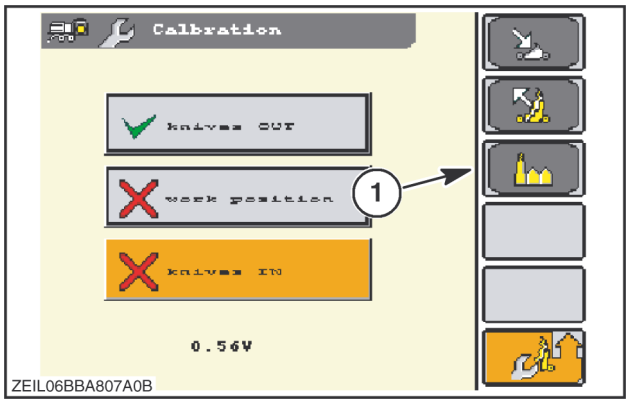
ZEIL04RB0290A0B 6

NOTICE: *If the cutter cylinder is further retracted, then the breakaway link starts lifting the control arm stop bolt off its rest. In this position, the load of the breakaway spring is on the cylinder and not on the stop bolt DO NOT CALIBRATE. Reset the knife control reference* ***Knife engagement system - Check (K.30.E)*** *before attempting to re calibrate.*



ZEIL04RB0290A0C 7

9. Where a RED cross is shown, an adjustment, voltage drop, or mechanical problem could be the reason.
RE CHECK ALL ADJUSTMENTS by referring to the relevant sections contained in the Repair Manual.
Assuming all settings, pressures, and adjustments are now correct it will be necessary to select the adjacent soft key, reset to factory settings **(1)**.



ZEIL06BBA807A0B 8

ATTENTION: *The figure opposite is a simulation for graphic purposes only. In a real calibration situation you will have only one red cross because you will re-calibrate until the red cross disappears.*
Each time you come back to the calibration screen there will be no green ticks or red crosses. They only appear when you confirm them by pressing on the enter button when calibrating a particular position.

NOTICE: *The Factory setting option does not bring the baler back to values calibrated at the factory, but returns the baler back to safe values that the baler could work with. If you replace sensors, you can go to safe start values by using this option but It should be followed by a re-calibration!.*
If a calibration is not possible anymore for some reason, you can use the factory settings to keep on going (temporary) with the baler until the problem is determined.
THEN RE CALIBRATE THE MACHINE

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Safety rules

IMPORTANT INFORMATION

- All repair and maintenance works listed in this manual must be carried out only by staff belonging to the Manufacturers Service network, strictly complying with the instructions given and using, whenever required, the special tools.
  Anyone who carries out the above operations without complying with the prescriptions shall be responsible for the subsequent damages.
- The manufacturer and all the organizations of its distribution chain, including - without limitation - national, regional or local dealers, reject any responsibility for damages due to the anomalous behaviour of parts and/or components not approved by the manufacturer himself, including those used for the servicing or repair of the product manufactures or marketed by the Manufacturer.
- In any case, no warranty is given or attributed on the product manufactures of marketed by the Manufacturer in case of damages due to an anomalous behaviour of parts and/or components not approved by the Manufacturer. No reproduction, though partial of text and illustrations allowed

SAFETY INFORMATION
WARNING AND DANGER SYMBOLS

- Warning symbols point out important personal safety messages. Carefully read the following safety regulations and observe advised precautions in order to avoid potential hazards and safeguard your health and safety. In this manual the symbol is accompanied by the following key words:
- DANGER", CAUTION", WARNING". Warnings concerning unsuitable repair operations that may jeopardize the safety of Repair personnel.
  DANGER - Specific warnings concerning potential hazards for operator safety or for other persons directly or indirectly involved.

ACCIDENT PREVENTION

- Most accidents or injuries that occur in workshops are the result of non observance of simple and fundamental safety regulations.
  For this reason, IN MOST CASES THESE ACCIDENTS CAN BE AVOIDED by foreseeing possible causes and consequently acting with the necessary caution and care. Accidents may occur with all types of machine, regardless of how well the machine in question was designed and built. A careful and judicious service technician is the best guarantee against accidents. Precise observance of the most basic safety rule is normally sufficient to avoid many serious accident.

DANGER

- Never carry out any cleaning, lubrication or maintenance operations when the tractor engine is running.

SAFETY RULES AND REGULATIONS

- Carefully follow specified repair and maintenance procedures.
- Do not wear rings, wrist watches, jewelry, unbuttoned or loose articles of clothing such as: ties, torn clothing, scarves, open jackets or shirts with open zips that may remain entangled in moving parts. It is advised to wear approved safety clothing, e.g.: non slip footwear, gloves, safety goggles, helmets, etc.
- Do not carry out repair operations with someone sitting in the driver’s seat, unless the person is a trained technician who is assisting with the operation in question.
- Do not operate the machine or use any of the implements from different positions, other than the driver’s seat.
- Do not carry out operations on the machine with the tractor engine running, unless specifically indicated.
- Stop the tractor engine and check that the hydraulic circuits are pressure-free before removing caps, covers, valves, etc.
- All repair and maintenance operations must be carried out using extreme care and attention.
- Service steps and platforms used in the workshop or elsewhere should be built according to standard accident prevention regulations.
- Disconnect the p.t.o. from the tractor and label all controls to indicate that the machine is being serviced. Any parts that are to be raises must be locked in position.

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WRAPPING AND TYING Twine wrapping (duckbill) K.55.D
EJECTING Round bale K.70.B

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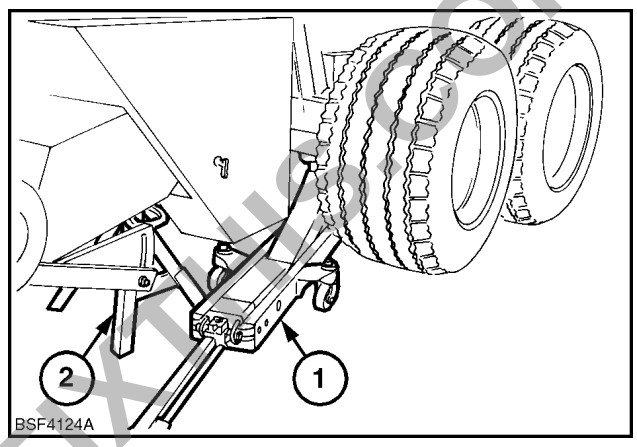
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TOWED VEHICLE AXLE Tandem axle - Overhaul

1. The Combi™ wrapper axles are twin wheel, off-centre pivoting, on a single box constructed beam.
   They consist of
   x1 beam,
   x2 stub axles,
   x1 brake cylinder and linkage,
   x2 wheels,
   x2 wheel hubs,
   x2 bearings per side.

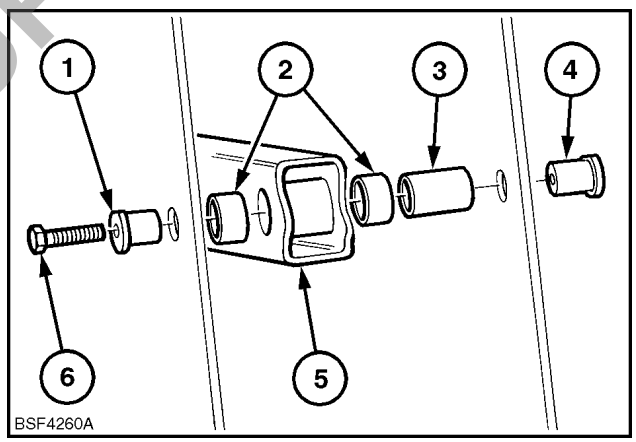
2. Should it be necessary to remove the axle assembly at any time firstly remove the wheels to lighten the axle weight. Determine where to lift the baler with the jack **(1)** and where to place the jack stand **(2)**. The support points should be as close to the side of the baler wrapper as possible.

NOTICE: *The axle assembly can articulate when the machine is lifted handle with care and safety. At least a five-ton jack and jack stand are required. Make sure the baler is on level ground. Block the opposite tyre(s).*



BSF4124A 1

3. With the axle fully supported remove the axle pivot assembly which is made up of :
   1. Retainer pivot
   2. Bushes
   3. Inner sleeve
   4. Retainer pivot
   5. Axle beam
   6. Retainer bolt



BSF4260A 2

4. If it is necessary at any stage to fit new bearing bushes at the axle pivot pin.
   The old bushes can easily be removed with a conventional extraction tool. However when fitting new bushes it will be necessary to use a solid drift, dimensioned to fit the new bushes.

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