

LB424 XL
LB434 XL
Square baler

SERVICE MANUAL

Part number 48123752

English

April 2017

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CASE IH
AGRICULTURE



SERVICE MANUAL

**LB424R XL Rotor Cutter
LB424S XL Standard
LB434R XL Rotor Cutter
LB434S XL Standard**

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INTRODUCTION

Basic instructions - How to use and navigate through this Manual

Large LB series

ANZ --- APAC --- MEA --- WE

Technical information

This manual has been produced by a new technical information system. This new system is designed to deliver technical information electronically through Web delivery (eTim), DVD and in paper manuals. A coding system called SAP has been developed to link the technical information to other Product Support functions, e.g., Warranty.

Technical information is written to support the maintenance and service of the functions or systems on a customer's machine. When a customer has a concern on his machine it is usually because a function or system on his machine is not working at all, is not working efficiently, or is not responding correctly to his commands. When you refer to the technical information in this manual to resolve that customer's concern, you will find all the information classified using the SAP coding, according to the functions or systems on that machine. Once you have located the technical information for that function or system then you will find all the mechanical, electrical or hydraulic devices, components, assemblies and sub assemblies for that function or system. You will also find all the types of information that have been written for that function or system, the technical data (specifications), the functional data (how it works), the diagnostic data (fault codes and troubleshooting) and the service data (remove, install adjust, etc.).

By integrating SAP coding into technical information, you will be able to search and retrieve just the right piece of technical information you need to resolve that customer's concern on his machine. This is made possible by attaching 3 categories to each piece of technical information during the authoring process.

The first category is the Location, the second category is the Information Type and the third category is the Product:

- LOCATION - is the component or function on the machine, that the piece of technical information is going to describe e.g. Fuel tank.
- INFORMATION TYPE - is the piece of technical information that has been written for a particular component or function on the machine e.g. Capacity would be a type of Technical Data that would describe the amount of fuel held by the Fuel tank.
- PRODUCT - is the model for which the piece of technical information is written.

Every piece of technical information will have those 3 categories attached to it. You will be able to use any combination of those categories to find the right piece of technical information you need to resolve that customer's concern on his machine.

That information could be:

- the description of how to remove the cylinder head
- a table of specifications for a hydraulic pump
- a fault code
- a troubleshooting table
- a special tool

How to use this manual

This manual is divided into Sections. Each Section is then divided into Chapters. Contents pages are included at the beginning of the manual, then inside every Section and inside every Chapter. An alphabetical Index is included at the end of a Chapter. Page number references are included for every piece of technical information listed in the Chapter Contents or Chapter Index.

Each Chapter is divided into four Information types:

- Technical Data (specifications) for all the mechanical, electrical or hydraulic devices, components and, assemblies.
- Functional Data (how it works) for all the mechanical, electrical or hydraulic devices, components and assemblies.
- Diagnostic Data (fault codes, electrical and hydraulic troubleshooting) for all the mechanical, electrical or hydraulic devices, components and assemblies.
- Service Data (remove disassembly, assemble, install) for all the mechanical, electrical or hydraulic devices, components and assemblies.

Sections

Sections are grouped according to the main functions or a systems on the machine. Each Section is identified by a number 00, 35, 55, etc. The amount of Sections included in the manual will depend on the type and function of the machine that the manual is written for. Each Section has a Contents page listed in alphabetic/numeric order. This table illustrates which Sections could be included in a manual for a particular product.

	PRODUCT				
	Tractors				
	Vehicles with working arms: backhoes, excavators, skid steers,				
	Combines, forage harvesters, balers,				
	Seeding, planting, floating, spraying equipment,				
	Mounted equipment and tools,				
SECTION					
00 - Maintenance					
05 - Machine completion and equipment					
10 - Engine					
14 - Main gearbox and drive					
18 - Clutch					
21 - Transmission					
23 - Four wheel drive system					
25 - Front axle system					
27 - Rear axle system					
29 - Hydrostatic drive					
31 - Implement power take-off					
33 - Brakes and controls					
35 - Hydraulic systems					
36 - Pneumatic system					
37 - Hitches, drawbars and implement couplings					
39 - Frames and ballasting					
41 - Steering					
44 - Wheels					
46 - Steering clutches					
48 - Tracks and track suspension					
50 - Cab climate control					
55 - Electrical systems					
56 - Grape harvester shaking					
58 - Attachments/headers					
60 - Product feeding					
61 - Metering system					
62 - Pressing - Bale formation					

INTRODUCTION

63 - Chemical applicators						
64 - Chopping						
66 - Threshing						
68 - Tying/Wrapping/Twisting						
69 - Bale wagons						
70 - Ejection						
71 - Lubrication system						
72 - Separation						
73 - Residue handling						
74 - Cleaning						
75 - Soil preparation/Finishing						
76 - Secondary cleaning / Destemmer						
77 - Seeding						
78 - Spraying						
79 - Planting						
80 - Crop storage / Unloading						
82 - Front loader and bucket						
83 - Telescopic single arm						
84 - Booms, dippers and buckets						
86 - Dozer blade and arm						
88 - Accessories						
89 - Tools						
90 - Platform, cab, bodywork and decals						



SERVICE MANUAL

Power Take-Off (PTO)

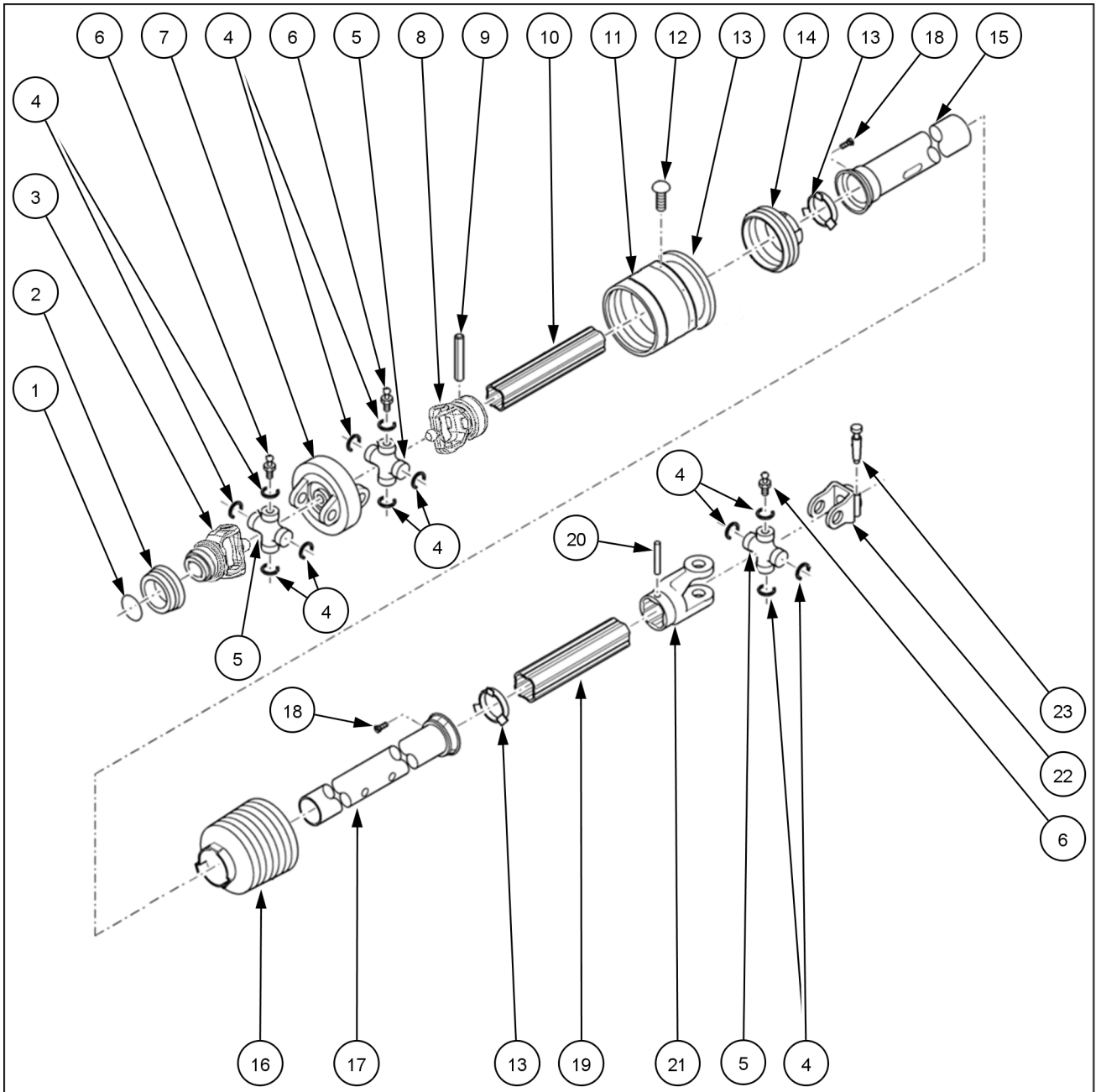
**LB424R XL Rotor Cutter
LB424S XL Standard
LB434R XL Rotor Cutter
LB434S XL Standard**

Power Take-Off (PTO) drive shaft - Exploded view

LB424R XL	ANZ --- APAC --- MEA --- WE
LB424S XL	ANZ --- APAC --- MEA --- WE
LB434R XL	ANZ --- APAC --- MEA --- WE
LB434S XL	ANZ --- APAC --- MEA --- WE

- | | |
|---|----------------------------------|
| 1. Retaining ring | 13. Guard support (bearing ring) |
| 2. Quick-connect lock (yoke – shaft connection) | 14. Guard |
| 3. Yoke | 15. Outer tube guard |
| 4. Retaining ring | 16. Guard |
| 5. U-joint | 17. Inner tube guard |
| 6. Grease fitting | 18. Screw |
| 7. Intermediate plate | 19. Inner tube |
| 8. Yoke | 20. Roll pin 10 x 80 |
| 9. Roll pin 10 x 100 | 21. Yoke |
| 10. Outer tube | 22. Yoke |
| 11. Guard | 23. Conical bolt |
| 12. Screw | |

Power Take-Off (PTO) - Power Take-Off (PTO) drive shaft

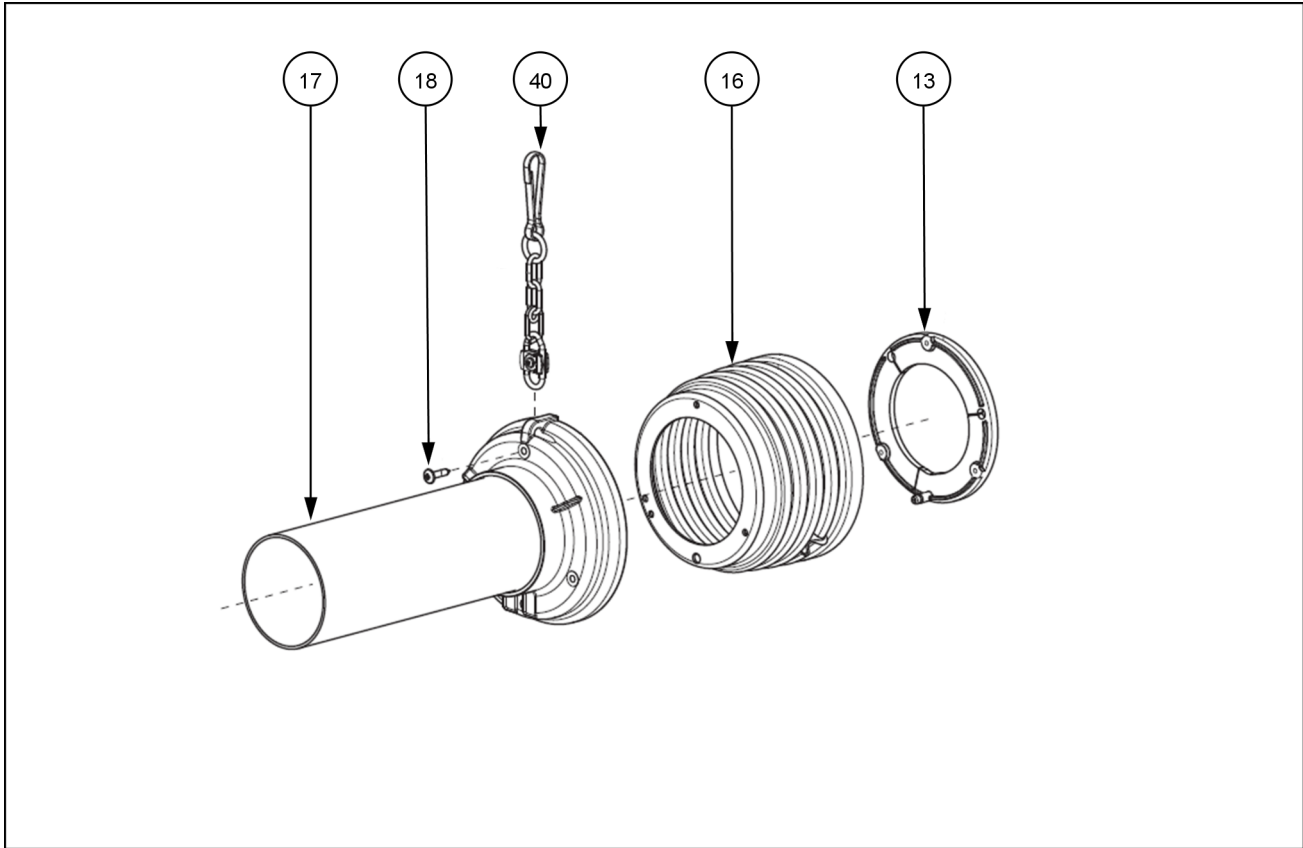


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Power Take-Off (PTO) drive shaft - Detailed view - Guard - Inner tube

LB424R XL	ANZ --- APAC --- MEA --- WE
LB424S XL	ANZ --- APAC --- MEA --- WE
LB434R XL	ANZ --- APAC --- MEA --- WE
LB434S XL	ANZ --- APAC --- MEA --- WE

- 13. Guard support (bearing ring)
- 16. Guard
- 17. Inner tube guard
- 18. Screw
- 40. Chain

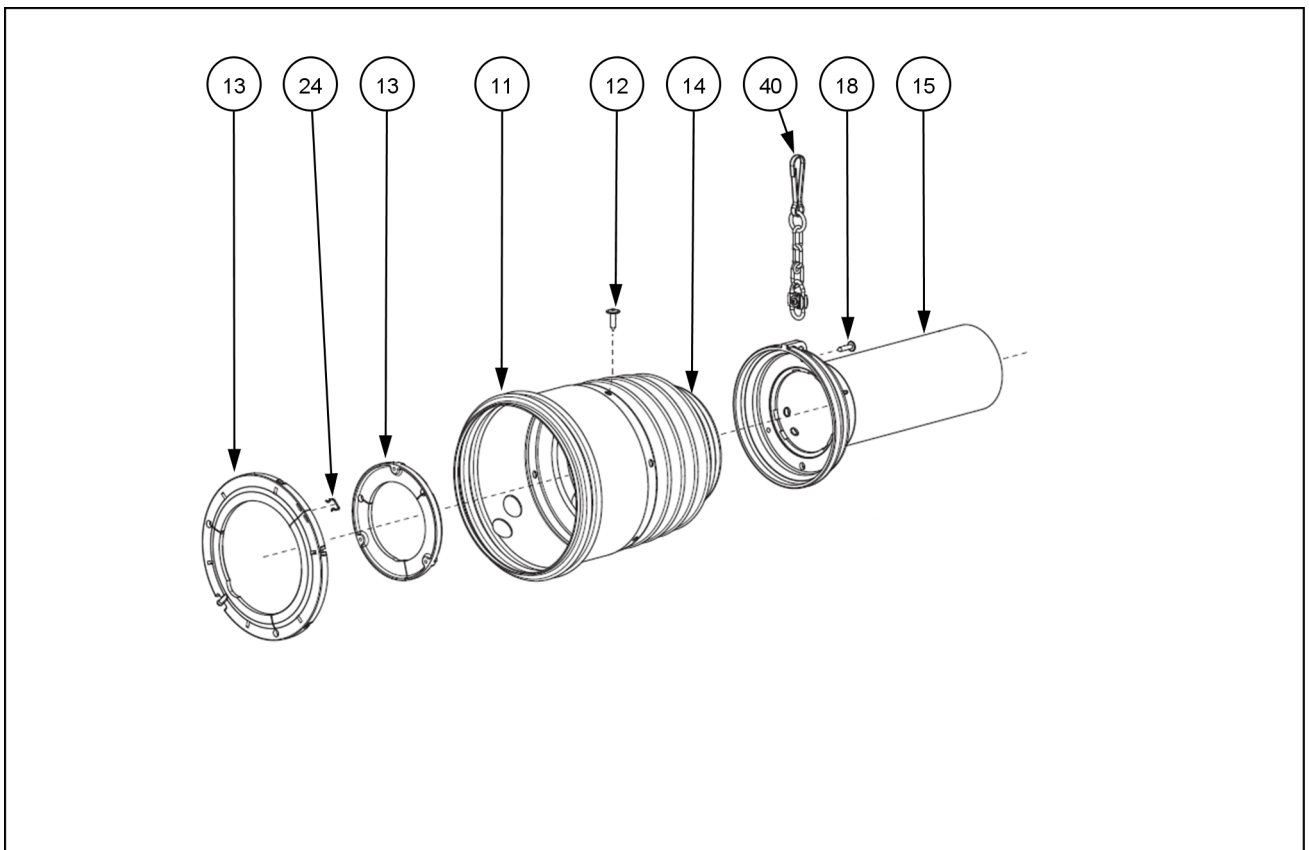


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Power Take-Off (PTO) drive shaft - Detailed view - Guard - Outer tube

LB424R XL	ANZ --- APAC --- MEA --- WE
LB424S XL	ANZ --- APAC --- MEA --- WE
LB434R XL	ANZ --- APAC --- MEA --- WE
LB434S XL	ANZ --- APAC --- MEA --- WE

- 11. Guard
- 12. Screw
- 13. Guard support (bearing ring)
- 14. Guard
- 15. Outer tube guard
- 18. Screw
- 24. Retaining spring
- 40. Chain

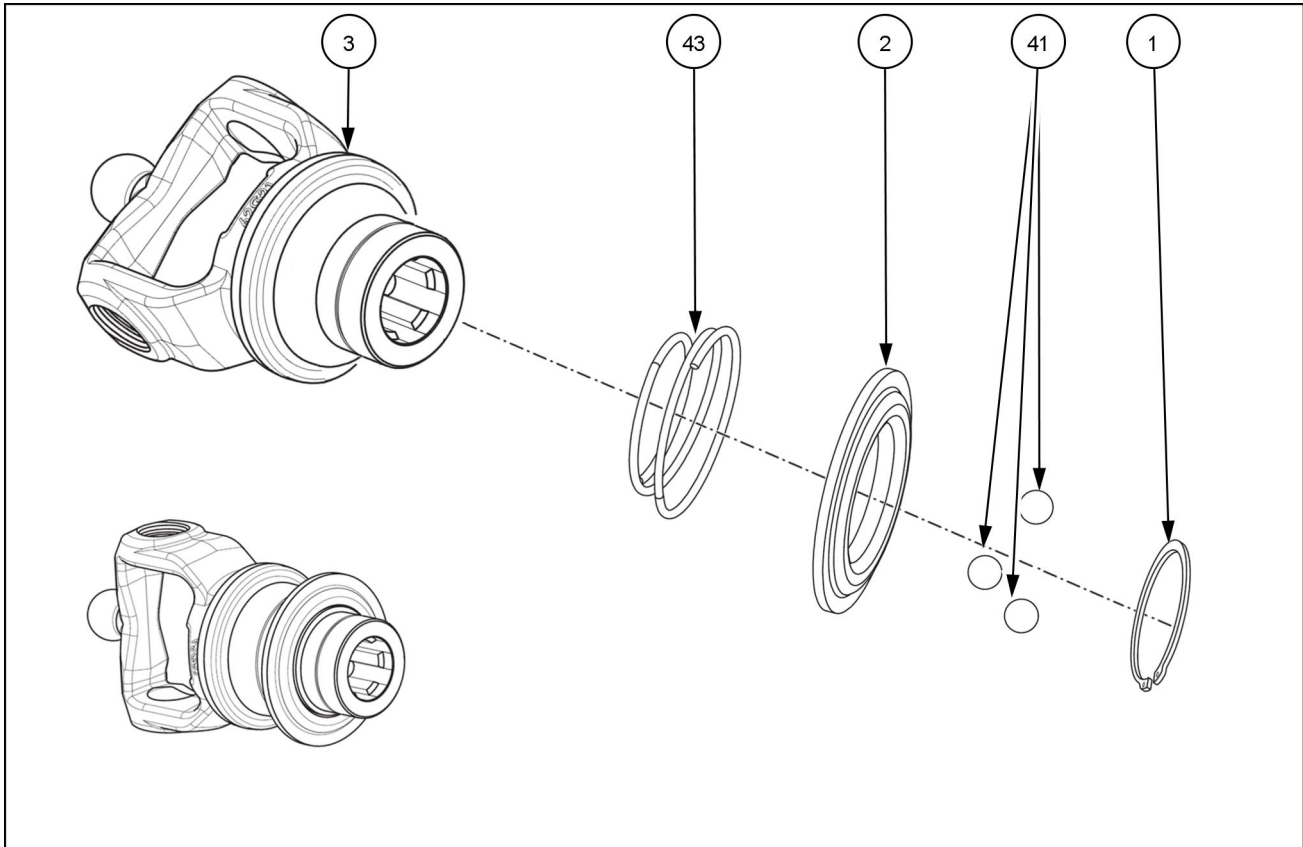


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Yoke assembly - Exploded view - Yoke - Shaft connection

LB424R XL	ANZ --- APAC --- MEA --- WE
LB424S XL	ANZ --- APAC --- MEA --- WE
LB434R XL	ANZ --- APAC --- MEA --- WE
LB434S XL	ANZ --- APAC --- MEA --- WE

1. Retaining ring
2. Collar
3. Yoke
41. Ball
43. Spring

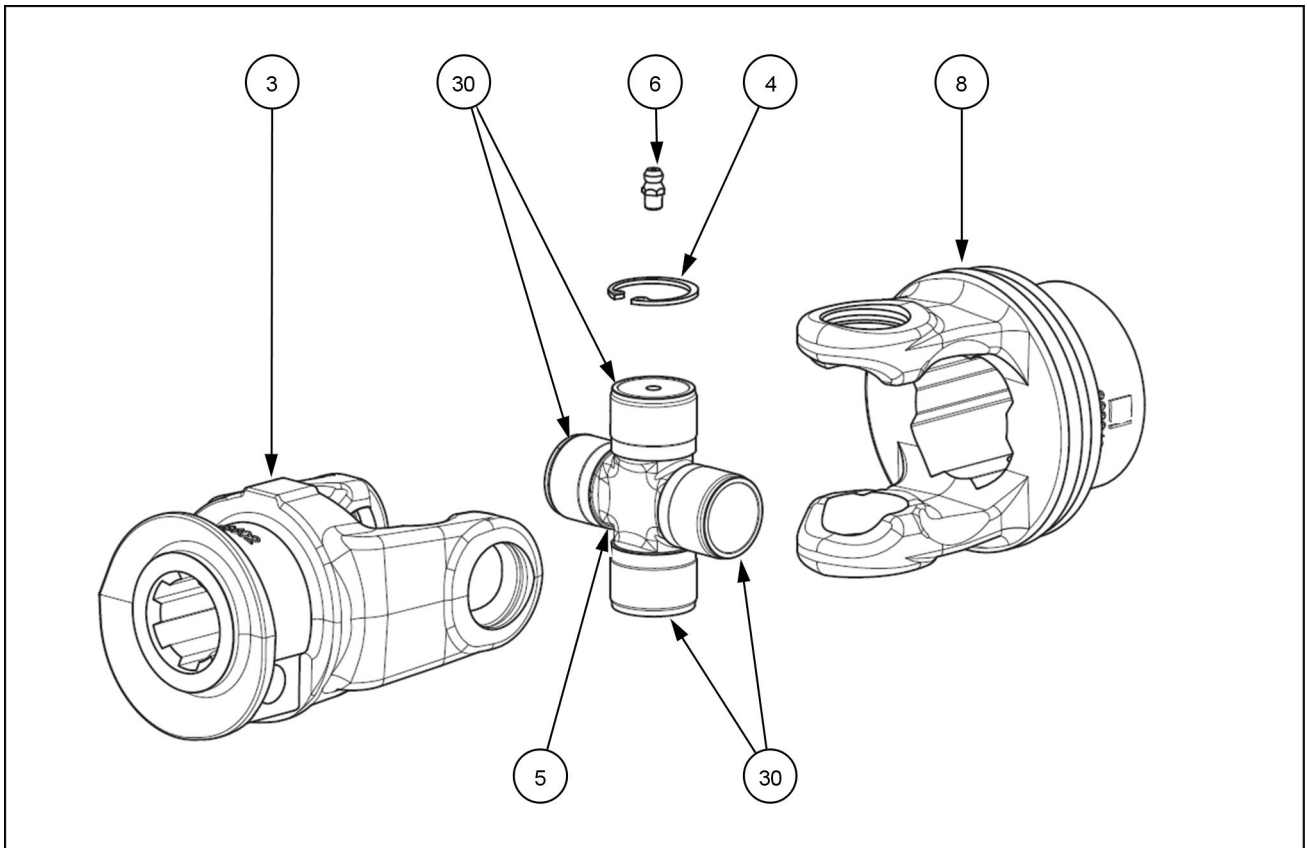


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Universal joint - Detailed view

LB424R XL	ANZ --- APAC --- MEA --- WE
LB424S XL	ANZ --- APAC --- MEA --- WE
LB434R XL	ANZ --- APAC --- MEA --- WE
LB434S XL	ANZ --- APAC --- MEA --- WE

- 3. Yoke
- 4. Retaining ring
- 5. U-joint
- 6. Grease fitting
- 8. Yoke
- 30. Bearing

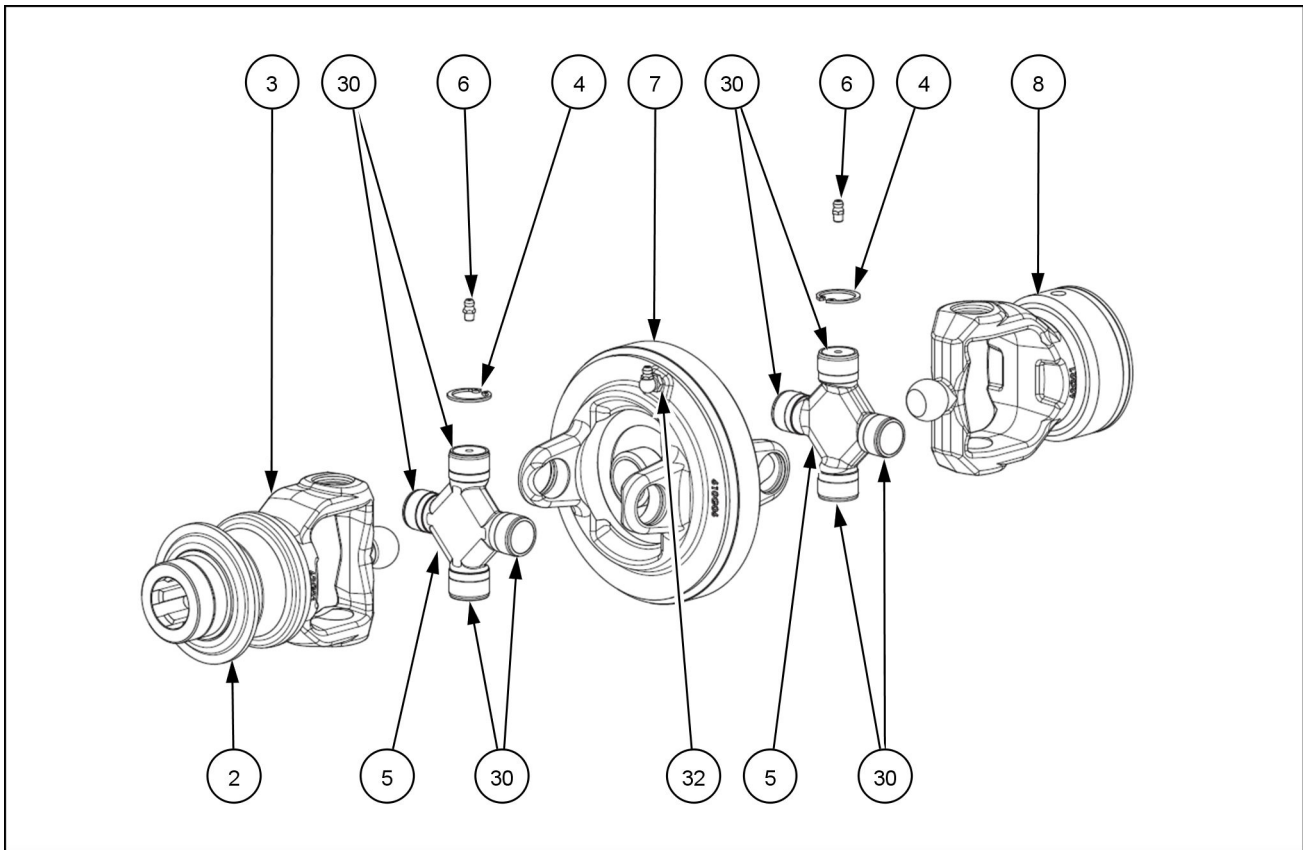


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Universal joint Constant Velocity (CV) universal joint - Detailed view

LB424R XL	ANZ --- APAC --- MEA --- WE
LB424S XL	ANZ --- APAC --- MEA --- WE
LB434R XL	ANZ --- APAC --- MEA --- WE
LB434S XL	ANZ --- APAC --- MEA --- WE

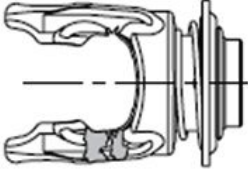
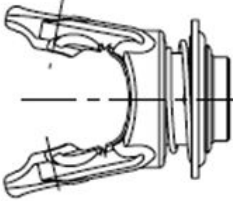
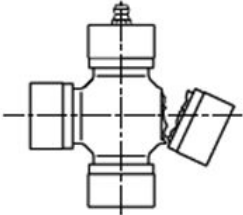
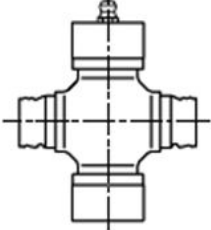

- 2. Quick-connect lock
- 3. Yoke
- 4. Retaining ring
- 5. U-joint
- 6. Grease fitting
- 7. Intermediate plate
- 8. Yoke
- 30. Bearing
- 32. Grease fitting



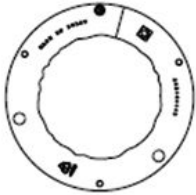


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Power Take-Off (PTO) drive shaft - Service instruction - Troubleshooting

LB424R XL	ANZ --- APAC --- MEA --- WE
LB424S XL	ANZ --- APAC --- MEA --- WE
LB434R XL	ANZ --- APAC --- MEA --- WE
LB434S XL	ANZ --- APAC --- MEA --- WE

Symptom	Possible cause	Action
Wear of yoke ears. 	Excessive working angle.	<ul style="list-style-type: none"> Reduce working angle. Disengage PTO when joint angle exceeds 45°.
Deformation of yoke ears. 	Excessive torque peak or shock load.	<ul style="list-style-type: none"> Avoid overloading and engaging drive under load. Check function of torque limiter.
Cross arms broken. 	Excessive torque peak or shock load.	<ul style="list-style-type: none"> Avoid overloading and engaging drive under load. Check function of torque limiter.
Accelerated wear of cross arms. 	Excessive load.	Do not exceed the speed or power limits indicated in the operator's manual.
	Insufficient lubrication.	Follow the instructions for use and maintenance described in the operator's manual.
Separation of telescoping tubes. 	Excessive extension of drive line.	<ul style="list-style-type: none"> Avoid excessive extension of drive line. Check recommended PTO front and rear drive shaft lengths, see the operator's manual.

Symptom	Possible cause	Action
Deformation of telescoping tubes. 	Excessive torque peak or shock load.	<ul style="list-style-type: none"> • Avoid overloading and engaging drive under load. • Check function of torque limiter. • Check that drive line does not come into contact with tractor or implement components during movement.
Accelerated wear of telescoping tubes. 	Insufficient lubrication.	Follow the instructions for use and maintenance described in the operator's manual.
Accelerated wear of shield bearing. 	Insufficient lubrication.	Follow the instructions for use and maintenance described in the operator's manual.
	Collar for shield not fastened properly.	On the mid-ship bearing housing, fasten the collar from the PTO shield.



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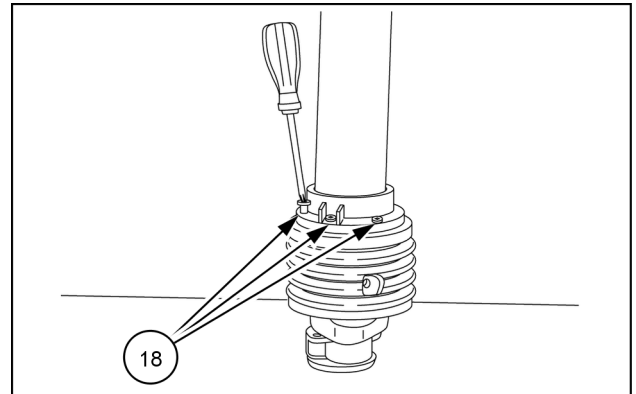
Thank you so much for reading

Power Take-Off (PTO) drive shaft - Disassemble - Guards

LB424R XL	ANZ --- APAC --- MEA --- WE
LB424S XL	ANZ --- APAC --- MEA --- WE
LB434R XL	ANZ --- APAC --- MEA --- WE
LB434S XL	ANZ --- APAC --- MEA --- WE

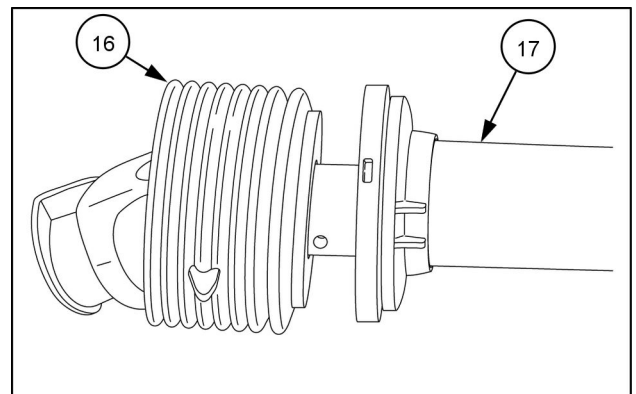
Inner side tube

1. Remove the screws (18).



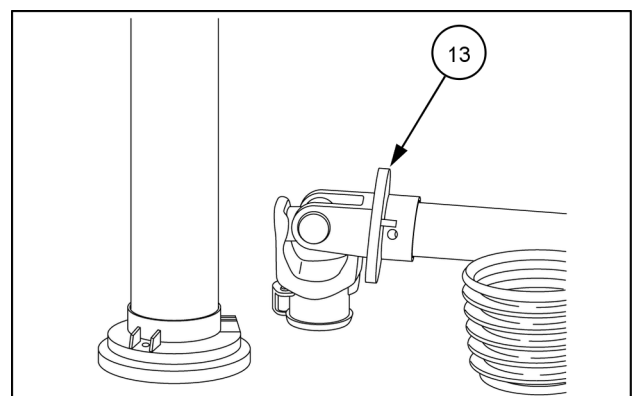
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2. Remove the guard (16).
3. Remove the inner tube guard (17).



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4. Spread and remove the guard support (13).



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