

Product manual, spare parts IRB 7600

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Product manual, spare parts

IRB 7600 - 500/2.55

IRB 7600 - 500/2.3

IRB 7600 - 400/2.55

IRB 7600 - 340/2.8

IRB 7600 - 325/3.1

IRB 7600 - 150/3.5

M2000, M2000A, IRC5

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Overview of this manual

About this manual

This manual contains spare parts for:

- IRB 7600 and all its variants.

Usage

This manual shall be used as a complement to the product manual for IRB 7600 during:

- maintenance work
- repair work.

Who should read this manual?

This manual is intended for:

- maintenance personnel
- repair personnel.

Prerequisites

Maintenance/repair/installation personnel working with an ABB Robot must:

- be trained by ABB and have the required knowledge of mechanical and electrical installation/repair/maintenance work.

Organization of chapters

The manual is organized in the following chapters:

Chapter	Contents
1 Spare parts and exploded views	Complete spare part lists and spare parts shown in exploded views.

References

Reference	Document ID
<i>Product manual - IRB 7600</i>	3HAC022033-001
<i>Product manual - IRB 7600 Foundry Prime</i>	3HAC044350-001
<i>Circuit diagram - IRB 7600</i>	3HAC13347-1 3HAC025744-001

Revisions

Revision	Description
-	First edition
A	This revision includes the following updates: <ul style="list-style-type: none"> • Maintenance kit (3HAC15834-1), and upgrade kit (3HAC14965-1), deleted from manual. • Spare parts with color Graphite White are added to the spare part lists.

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Revision	Description
B	<p>This revision includes the following updates:</p> <ul style="list-style-type: none">• The complete manual has been restructured. All article numbers not considered spare parts are removed from the manual.• Spare parts for Axis Calibration added to the spare part lists.• Spare part numbers for following parts have been updated:<ul style="list-style-type: none">- Serial measurement unit- Battery box cover- Axis-6 gear (from 3HAC17811-1 to 3HAC037639-002)- Wrist type 3 Foundry Prime- Axis-1 motor Foundry Prime- Axis-3 motor Foundry Prime- Axis-4 motor Foundry Prime- Axis-5 motor Foundry Prime- Axis-6 motor Foundry Prime- Axis-4 gear- Axis-5 gear- Gasket for axis-6 motor
C	<p>This revision includes the following updates:</p> <ul style="list-style-type: none">• Spare part numbers for following parts have been added/updated:<ul style="list-style-type: none">- Axis-3 gearbox- Axis-4 gearbox- Axis-5 gearbox- Axis-6 gearbox Foundry Prime- Balancing device Foundry Prime- Support shaft in wrist unit- Axis-2 cover- Wrist covers- Axis-4 motor pinion- Axis-5 motor pinion- Arm extender sets- Hose with flange, axis 1- Axis-3 synchronization plate- Axis 3-4
D	<p>Published in release R16.2. The following updates are done in this revision:</p> <ul style="list-style-type: none">• Corrections due to updates in SAP terminology.• Added painted base as spare part.• New denomination for Shaft calibration (was Calibration stand).• Spare part number for the turning disk is updated.• Updated spare parts due to sealing upgrade in the motors:<ul style="list-style-type: none">- Motors- Axis 3-4- Wrist

Product documentation, IRC5

Categories for user documentation from ABB Robotics

The user documentation from ABB Robotics is divided into a number of categories. This listing is based on the type of information in the documents, regardless of whether the products are standard or optional.

All documents listed can be ordered from ABB on a DVD. The documents listed are valid for IRC5 robot systems.

Product manuals

Manipulators, controllers, DressPack/SpotPack, and most other hardware is delivered with a **Product manual** that generally contains:

- Safety information.
- Installation and commissioning (descriptions of mechanical installation or electrical connections).
- Maintenance (descriptions of all required preventive maintenance procedures including intervals and expected life time of parts).
- Repair (descriptions of all recommended repair procedures including spare parts).
- Calibration.
- Decommissioning.
- Reference information (safety standards, unit conversions, screw joints, lists of tools).
- Spare parts list with exploded views (or references to separate spare parts lists).
- Circuit diagrams (or references to circuit diagrams).

Technical reference manuals

The technical reference manuals describe reference information for robotics products.

- *Technical reference manual - Lubrication in gearboxes*: Description of types and volumes of lubrication for the manipulator gearboxes.
- *Technical reference manual - RAPID overview*: An overview of the RAPID programming language.
- *Technical reference manual - RAPID Instructions, Functions and Data types*: Description and syntax for all RAPID instructions, functions, and data types.
- *Technical reference manual - RAPID kernel*: A formal description of the RAPID programming language.
- *Technical reference manual - System parameters*: Description of system parameters and configuration workflows.

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Application manuals

Specific applications (for example software or hardware options) are described in **Application manuals**. An application manual can describe one or several applications.

An application manual generally contains information about:

- The purpose of the application (what it does and when it is useful).
- What is included (for example cables, I/O boards, RAPID instructions, system parameters, DVD with PC software).
- How to install included or required hardware.
- How to use the application.
- Examples of how to use the application.

Operating manuals

The operating manuals describe hands-on handling of the products. The manuals are aimed at those having first-hand operational contact with the product, that is production cell operators, programmers, and trouble shooters.

The group of manuals includes (among others):

- *Operating manual - Emergency safety information*
- *Operating manual - General safety information*
- *Operating manual - Getting started, IRC5 and RobotStudio*
- *Operating manual - IRC5 Integrator's guide*
- *Operating manual - IRC5 with FlexPendant*
- *Operating manual - RobotStudio*
- *Operating manual - Trouble shooting IRC5*

1 Spare parts

1.1 Spare parts - Electrical parts

Manipulator harness

Spare part list - manipulator harness

Spare part number	Description	All variants
3HAC12782-1	Manipulator harness axes 1-4 Brake release at base	X
3HAC14940-1	Manipulator harness axes 1-4 Brake release in frame	X
3HAC11440-1	Manipulator harness axes 5-6	X
3HAC15431-1	Cable protection	X
3HAC15619-1	Cable, FB7-SMB 1.7	X

SMB and BU unit

Spare part list - SMB

Spare part number	Description	All variants
3HAC031851-001	Serial measurement unit DSQC633A	X
3HAC046277-001	Serial measurement unit Contains serial measurement board 3HAC044168-001 and battery unit 3HAC044075-001.	X

Spare part list - brake release board

Spare part number	Description	All variants
3HAC16036-1	DSQC 561 Brake release board	X
3HAC14219-1	Brake release unit at the base	
3HAC12989-1	Brake release unit at the base	

Spare part list - other parts

	Spare part number	Description	Color	All variants
x	3HACxx	Guard plate, BU buttons	-	X
-	3HAC2744-1	Push button guard	-	X
-	3HAC4813-1	Push button cover	-	X
-	3HAC14791-4	Cover battery box	-	X
-	3HAC14788-3	Cover SMB and BRU	ABB Orange	X
-	3HAC050865-001	Cover SMB and BRU	Graphite White	X
-	3HAC14788-2	Gasket, SMB and BRU cover	-	X
-	3HAC14793-1	Bracket (brake release unit)	-	X

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1 Spare parts

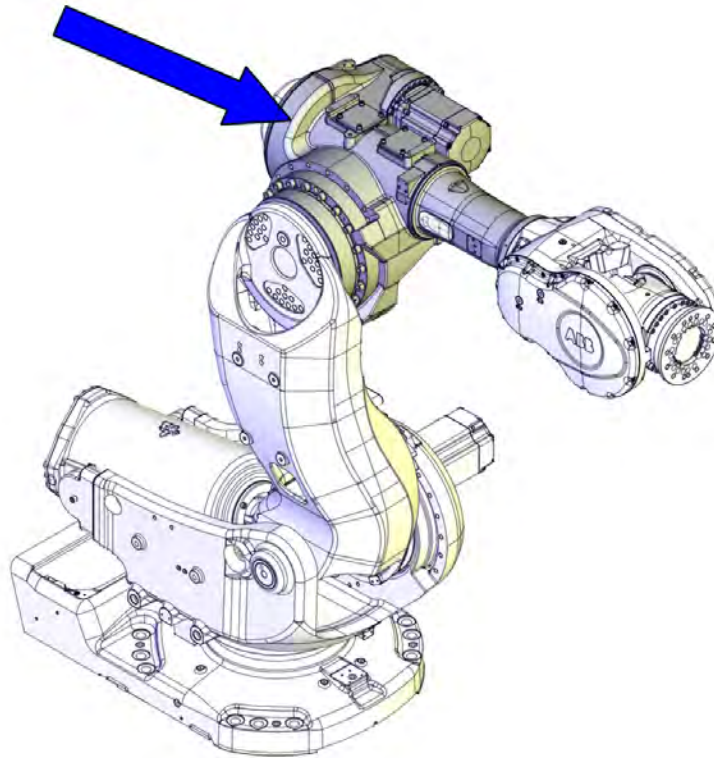
1.1 Spare parts - Electrical parts

Continued

	Spare part number	Description	Color	All variants
-	3HAC16831-1	Battery pack (2-pole battery contact) Can only be used with SMB unit 3HAC022286-001.		
-	3HAC044075-001	Battery unit (3-pole battery contact) Can only be used with SMB unit 3HAC046277-001.	-	X
-	3HAC046520-001	Battery holder Required for installation of battery unit 3HAC044075- 001.	-	X
-	3HAC13151-1	Cable battery/SMB Used with battery pack 3HAC16831-1.		X
-	3HAC046287-001	Cable battery/SMB Used with battery unit 3HAC044075-001.	-	X

1.2 Spare parts - Axis 3-4

Axis 3-4



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Spare part list - axis 3-4

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Axis 3-4	3HAC058778-002	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC058778-001	Standard/Foundry	Graphite White	X	X	X	X	X	X

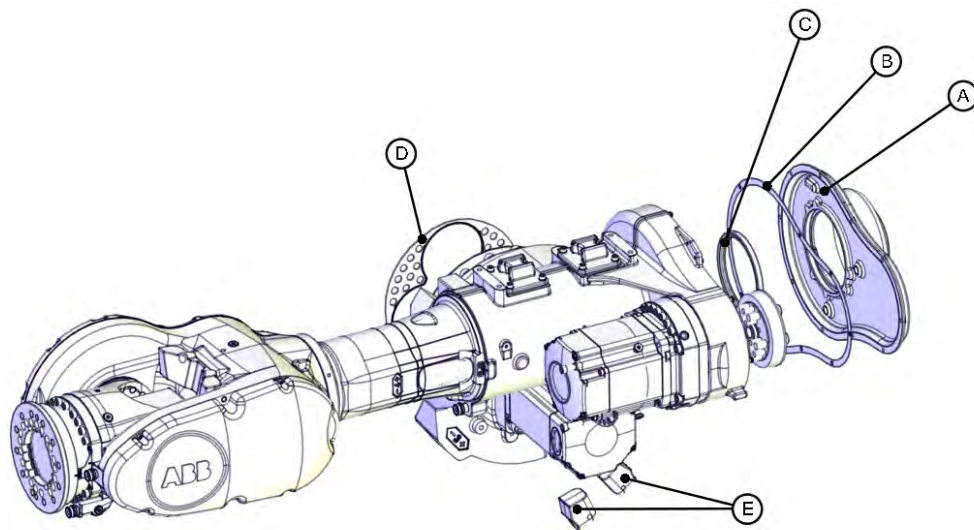
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1 Spare parts

1.2 Spare parts - Axis 3-4

Continued

Other parts



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Spare part list - other parts axis 3-4

	Description	Spare part number	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	Cover axis-4 (including gasket)	3HAC12640-1	ABB Orange	X	X	X	X	X	X
B	Cover axis-4 gasket	3HAC11423-3		X	X	X	X	X	X
C	Sealing, axis-4	3HAA1001-628		X	X	X	X	X	X
D	Sealing, axis-3	3HAC17213-1		X	X	X	X	X	X
E	Damper, axis-3	3HAC11750-1		X	X	X	X	X	X

1.3 Spare parts - Arm extender

Spare part list - upper arm extender

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Arm extension set 250 mm ⁱ	3HAC12311-20	Standard/Foundry	ABB Orange				X	2X	
Arm extender 250 mm	3HAC038667-003	Standard/Foundry	ABB Orange				X	2X	
	3HAC038667-004	Standard/Foundry	Graphite White						
Arm extension set 956 mm ⁱⁱ	3HAC12311-10	Standard/Foundry	ABB Orange						X
Arm extender 956 mm	3HAC021842-001	Standard/Foundry	ABB Orange						X
	3HAC021842-002	Standard/Foundry	Graphite White						X
Spacer ring	3HAC022620-001	-	-	X	X	X	X	X	X

ⁱ Contains arm extender 3HAC038667-003, parallel pin, washers and screws.

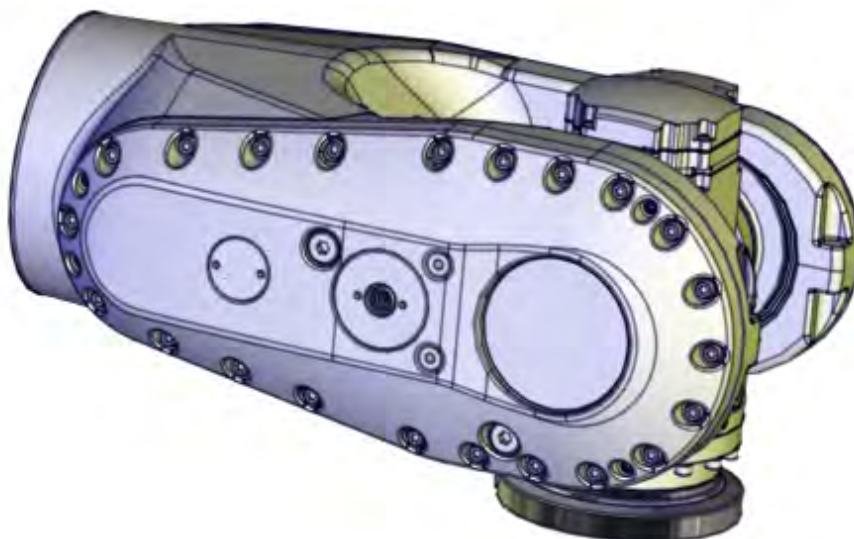
ⁱⁱ Contains arm extender 3HAC021842-001, parallel pin, washers and screws.

1 Spare parts

1.4 Spare parts - Wrist

1.4 Spare parts - Wrist

Wrist



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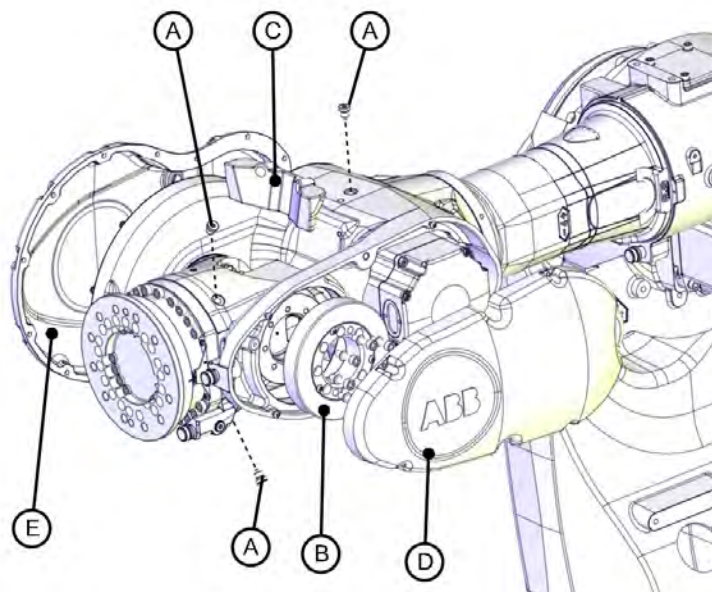
Spare part list - wrist

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Wrist, type 3 Valid for robots that are calibrated with Axis Calibration method. ⁱ	3HAC058745-002	Standard Foundry	ABB Orange	X	X	X	X	X	X
	3HAC058745-001	Standard Foundry	Graphite White	X	X	X	X	X	X
	3HAC036812-003	Foundry Prime	Grey	X	X	X	X	X	X
Wrist, type 3 Valid for robots that are calibrated with Calibration Pendulum method. ⁱ	3HAC059765-001	Standard Foundry	ABB Orange	X	X	X	X	X	X
	3HAC059765-002	Standard Foundry	Graphite White	X	X	X	X	X	X
Wrist, insulated	3HAC059494-001	Standard Foundry	ABB Orange	X	X	X	X	X	X

ⁱ The robot is calibrated by either Calibration Pendulum or Axis Calibration at factory. Always use the same calibration method as used at the factory.
Information about valid calibration method is found on the calibration label or in the calibration menu on the FlexPendant.
If no data is found related to standard calibration, Calibration Pendulum is used as default.

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Other parts

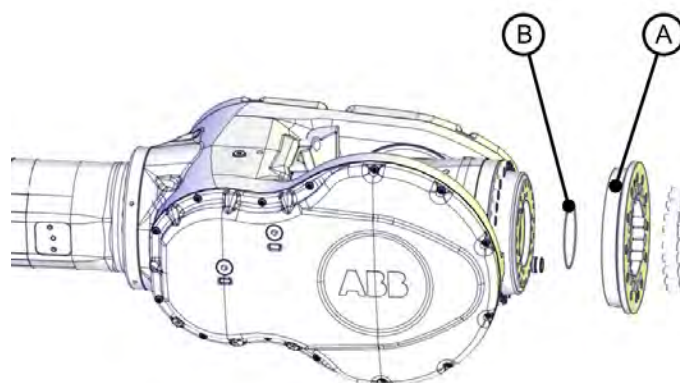


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Spare part list - other parts wrist

	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	Magnetic plug	3HAC037925-001	X	X	X	X	X	X
B	Support shaft including bearing	3HAC10503-14	X	X	X	X	X	X
C	Damper, axis-5	3HAC054927-001	X	X	X	X	X	X
D	Wrist cover	3HAC11409-3	X	X	X	X	X	X
E	Wrist cover	3HAC11409-9	X	X	X	X	X	X
-	Groove ball bearing	3HAB3710-19	X	X	X	X	X	X

Turning disc (standard and process)



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Continues on next page

1 Spare parts

1.4 Spare parts - Wrist

Continued

Spare part list - turning disc

	Description	Spare part number	Protection type	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	Turning disc, dia. 250	3HAC055247-002	Standard/Foundry	X	X	X	X	X	X
	Turning disc, insulated	3HAC023124-002		X	X	X	X	X	X
	Process turning disc	3HAC053607-004		X	X	X	X	X	X
B	O-ring	3HAB3772-83		X	X	X	X	X	X

Axis 6

Spare part list - axis 6

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Axis 6 insulated	3HAC024594-005	Standard Foundry	ABB Orange	X	X	X	X	X	X

Axis-6 synchronization mark plate

Description	Spare part number	Note
Synchronization mark plate axis-6	3HAC11471-1	

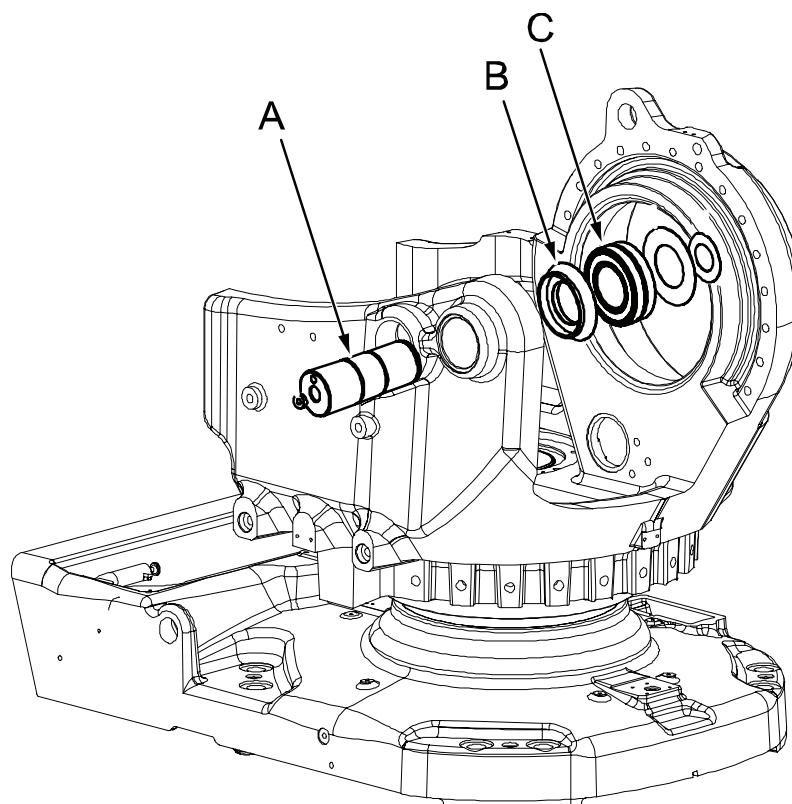
1.5 Spare parts - Lower arm

Other parts (all protection types)

Spare part list - other parts lower arm

	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
-	Damper, axis-2	3HAC12990-1	X	X	X	X	X	X
-	Synchronization plate, axis-3	3HAC14658-1	X	X	X	X	X	X

Other parts lower arm (protection type Standard)



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Spare part list - other parts lower arm (protection type Standard)

	Description	Spare part number	Protection type	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	Lower arm shaft (axis-2 shaft)	3HAC13123-1	Standard	X	X	X	X	X	X
B	Thrust washer	3HAC13124-1	Standard	X	X	X	X	X	X
C	Sealed spherical bearing	3HAC4310-1	Standard	X	X	X	X	X	X
	Sealing, axis 2/3	3HAC17213-1	Standard	X	X	X	X	X	X

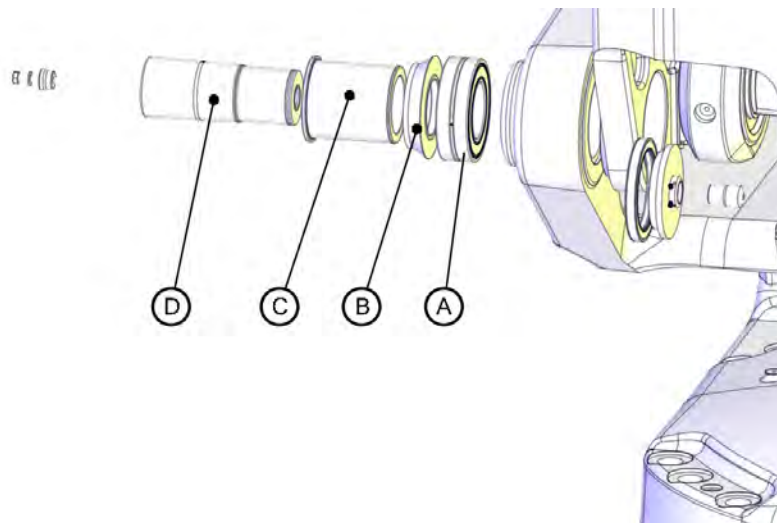
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1 Spare parts

1.5 Spare parts - Lower arm

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Other parts lower arm (protection type Foundry Plus)



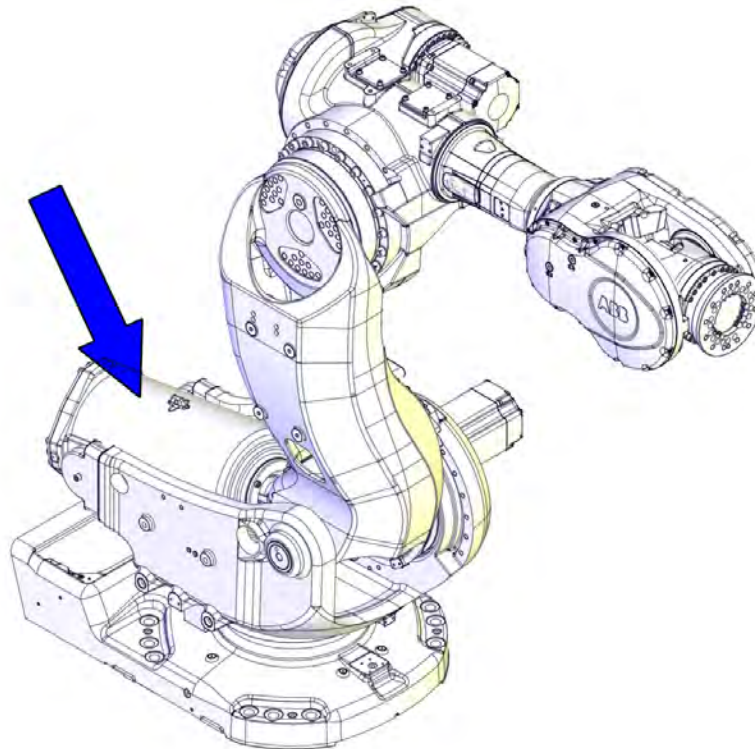
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Spare part list - other parts lower arm (protection type Foundry Plus)

	Description	Spare part number	Protection type
A	Spherical roller bearing	3HAC12441-2	
B	Thrust washer	3HAC12481-1	
C	Bushing	3HAC12627-1	Foundry Plus
D	Lower arm shaft (axis-2 shaft)	3HAC12480-1	

1.6 Spare parts - Balancing device

Balancing device



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Spare part list - balancing device

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Balancing device	3HAC14214-1	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC050587-001	Standard/Foundry	Graphite White	X	X	X	X	X	X
	3HAC036943-003	Foundry Prime	Grey	X	X	X	X	X	X

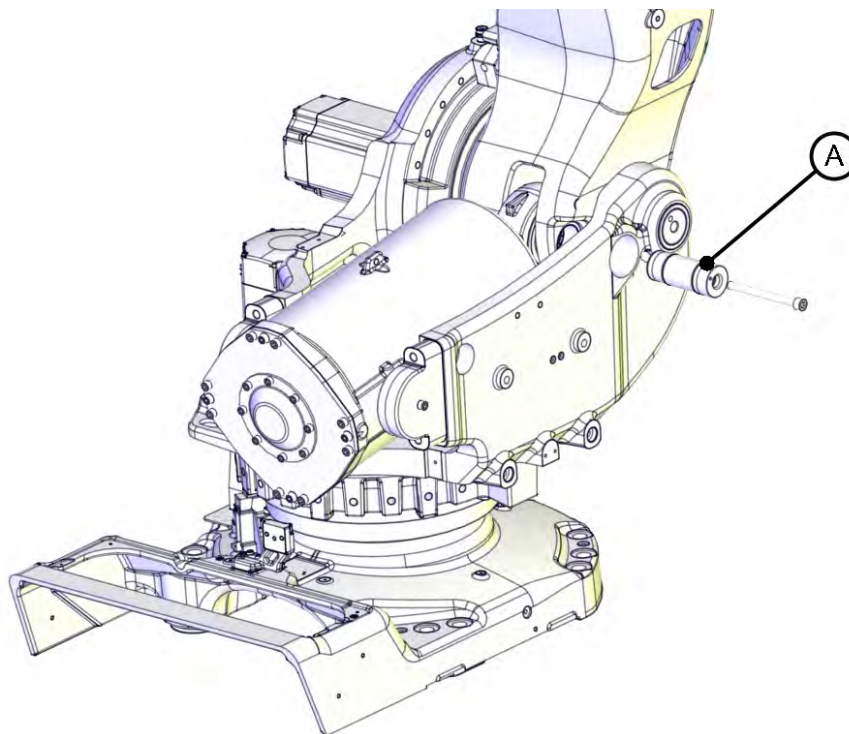
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1 Spare parts

1.6 Spare parts - Balancing device

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Other parts



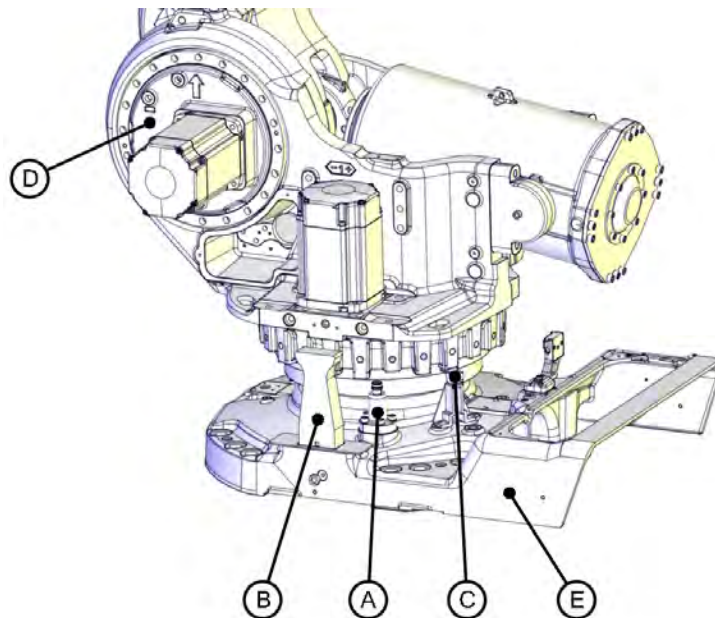
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Spare part list - balancing device other parts

	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	Shaft	3HAC11427-1	X	X	X	X	X	X

1.7 Spare parts - Frame and base

Spare part list - base



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Spare part list - base and frame

	Description	Spare part number	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	Shaft calibration	3HAC053515-002	Graphite White	X	X	X	X	X	X
		3HAC053515-003	ABB Orange	X	X	X	X	X	X
B	Mechanical stop, axis 1	3HAC12812-2		X	X	X	X	X	X
C	Calibration block	3HAC053973-001		X	X	X	X	X	X
D	Axis-2 cover	3HAC11198-1		X	X	X	X	X	X
E	Base	3HAC058104-001	Graphite White	X	X	X	X	X	X
	Base	3HAC058104-002	ABB Orange	X	X	X	X	X	X
-	Oil hose with flange, axis 1	3HAC14453-1		X	X	X	X	X	X
-	Plug for oil hose	3HAC14453-2		X	X	X	X	X	X

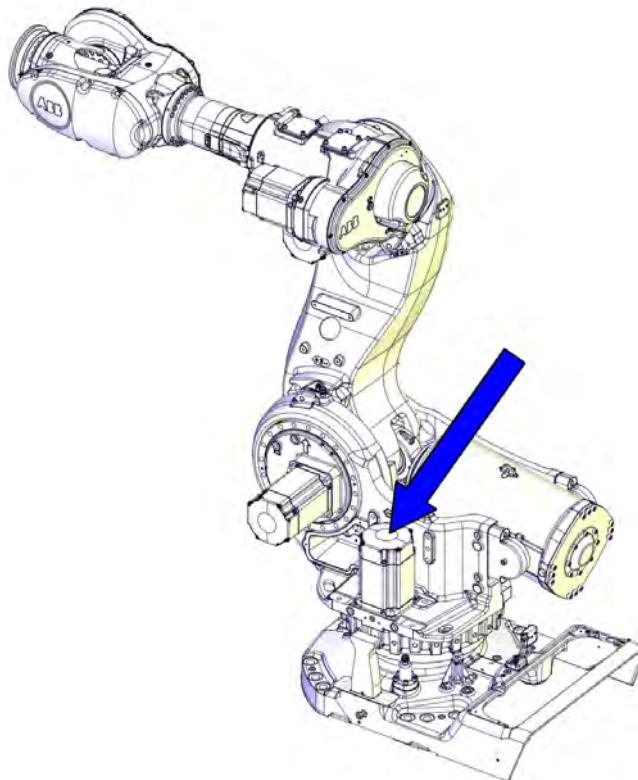
1 Spare parts

1.8.1 Axis-1 motor (including pinion)

1.8 Spare parts - Motors

1.8.1 Axis-1 motor (including pinion)

Axis-1 motor



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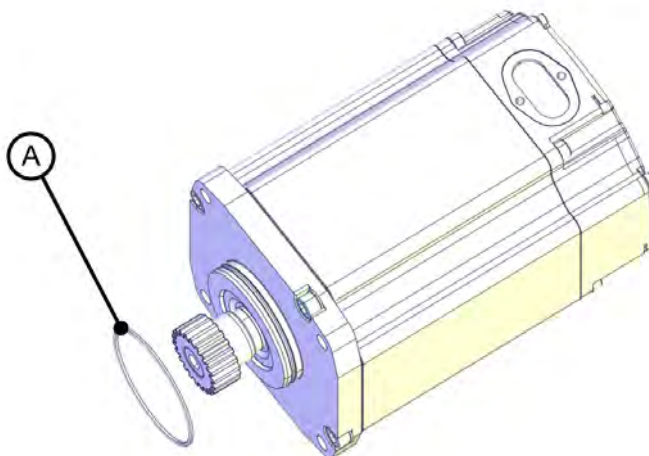
Spare part list - axis-1 motor

The spare part motor includes: pinion, connection box, cover and o-rings.

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Motor axis 1	3HAC057539-003	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC057539-004	Standard/Foundry	Graphite White	X	X	X	X	X	X
	3HAC060323-001	Foundry Prime	Grey	X	X	X	X	X	X

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Other parts



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Spare part list - other parts axis-1 motor

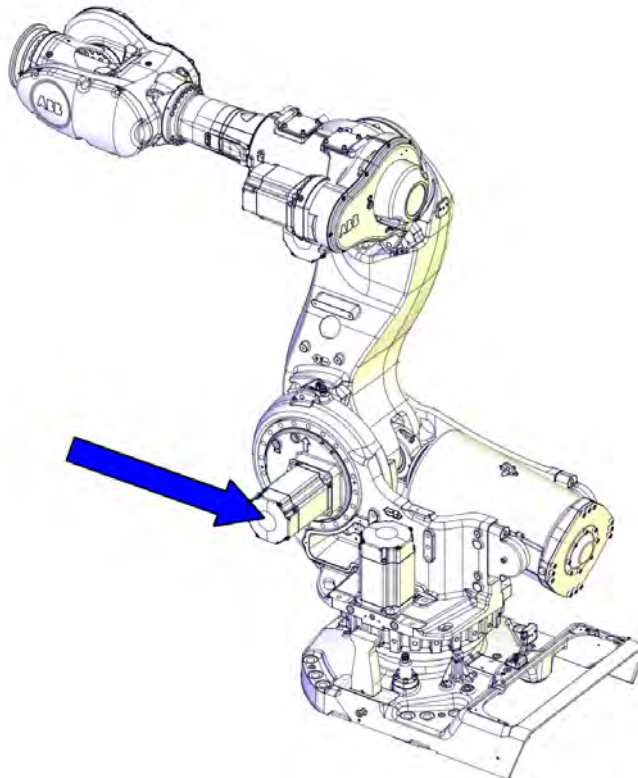
	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	21522012-430	X	X	X	X	X	X

1 Spare parts

1.8.2 Axis-2 motor (including pinion)

1.8.2 Axis-2 motor (including pinion)

Axis-2 motor



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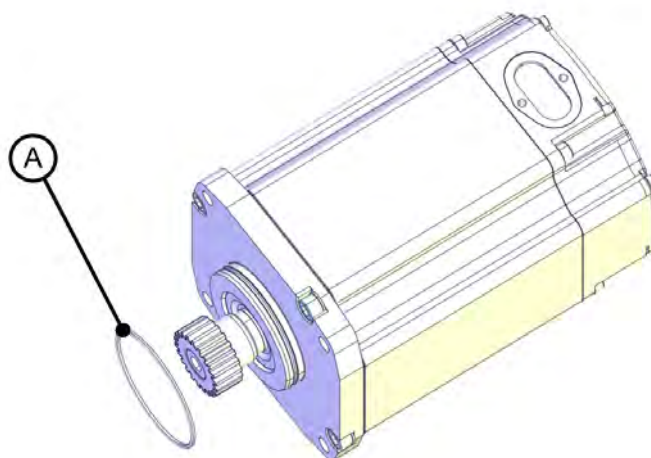
Spare part list - axis-2 motor

The spare part motor includes: pinion, connection box, cover and o-rings.

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Motor axis 2	3HAC057540-003	Standard/Foundry	ABB Orange		X	X	X		X
	3HAC057540-004	Standard/Foundry	Graphite White		X	X	X		X
	3HAC060324-001	Foundry Prime	Grey		X	X	X		X
	3HAC057541-005	Standard/Foundry	ABB Orange	X				X	
	3HAC057541-004	Standard/Foundry	Graphite White	X				X	

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Other parts



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Spare part list - other parts axis-2 motor

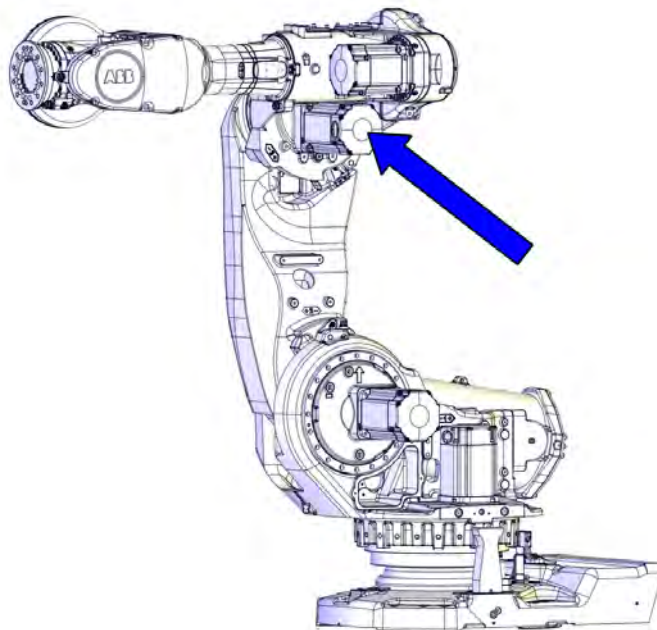
	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	21522012-430	X	X	X	X	X	X
B	Pinion	3HAC11350-1	X	X	X	X	X	X

1 Spare parts

1.8.3 Axis-3 motor (including pinion)

1.8.3 Axis-3 motor (including pinion)

Axis-3 motor



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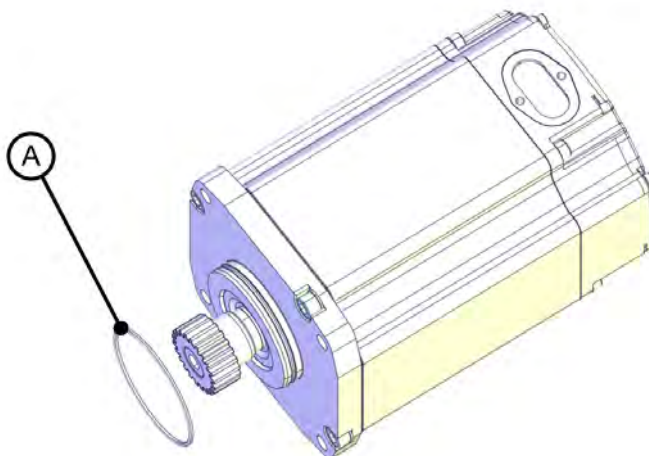
Spare part list - axis-3 motor

The spare part motor includes: pinion, connection box, cover and o-rings.

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Motor axis 3	3HAC057540-003	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC057540-004	Standard/Foundry	Graphite White	X	X	X	X	X	X
	3HAC060325-001	Foundry Prime	Grey	X	X	X	X	X	X

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Other parts



xx1500002661

Spare part list - other parts axis-3 motor

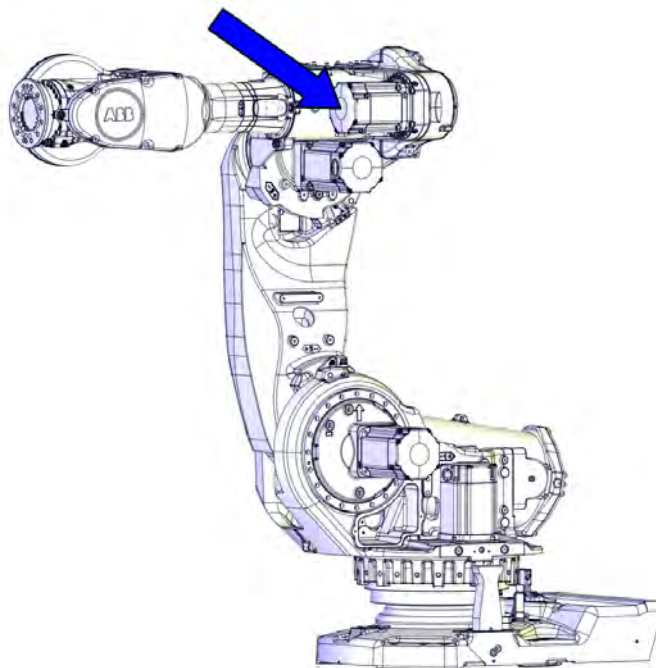
	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	21522012-430	X	X	X	X	X	X

1 Spare parts

1.8.4 Axis-4 motor (including pinion)

1.8.4 Axis-4 motor (including pinion)

Axis-4 motor



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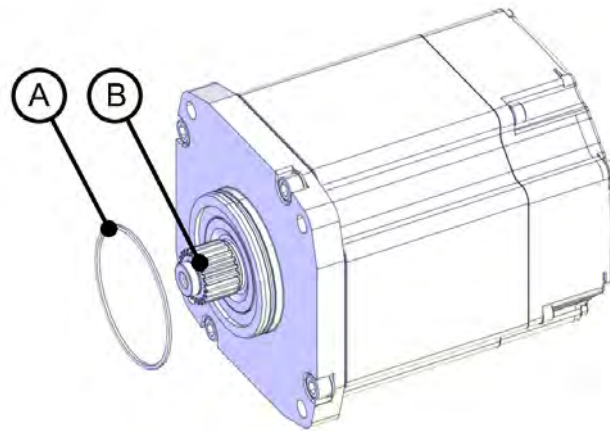
Spare part list - axis-4 motor

The spare part motor includes: pinion, connection box, cover and o-rings.

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Motor axis 4	3HAC057543-003	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC057543-005	Standard/Foundry	Graphite White	X	X	X	X	X	X
	3HAC060325-001	Foundry Prime	Grey	X	X	X	X	X	X

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Other parts



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Spare part list - other parts axis-4 motor

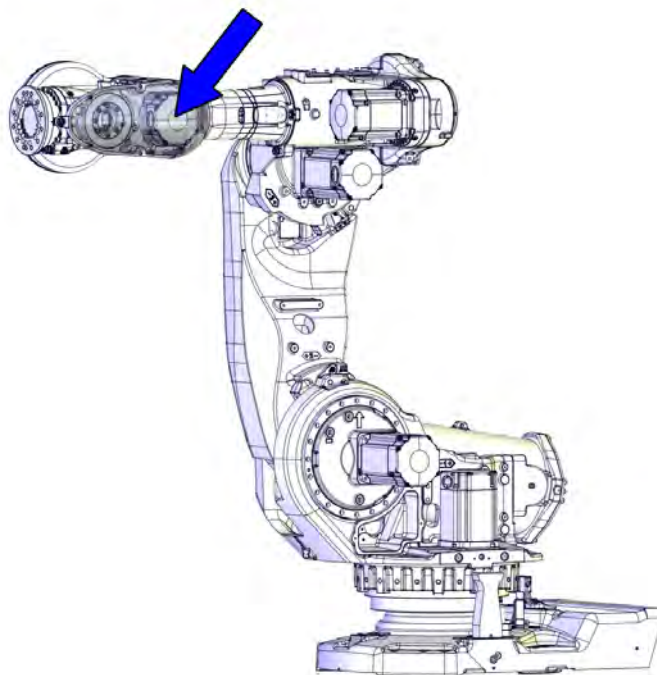
	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	21522012-430	X	X	X	X	X	X
B	Pinion	3HAC10122-17	X	X	X	X	X	X

1 Spare parts

1.8.5 Axis-5 motor (including pinion)

1.8.5 Axis-5 motor (including pinion)

Axis-5 motor



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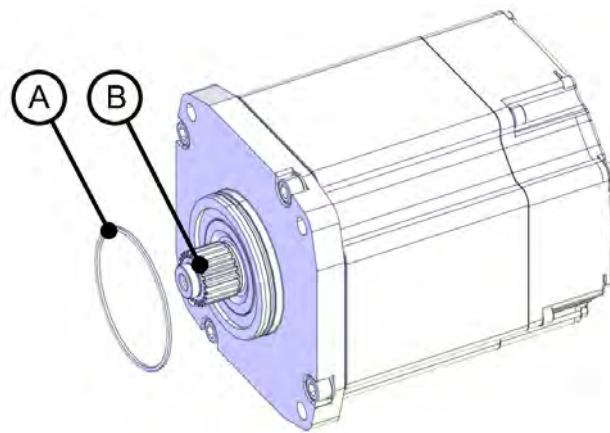
Spare part list - axis-5 motor

The spare part motor includes: pinion, connection box, cover and o-rings.

Description	Spare part number	Protection type	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Motor axis 5	3HAC057543-004	Standard	X	X	X	X	X	X
	3HAC060327-001	Foundry Prime	X	X	X	X	X	X

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Other parts



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Spare part list - other parts axis-5 motor

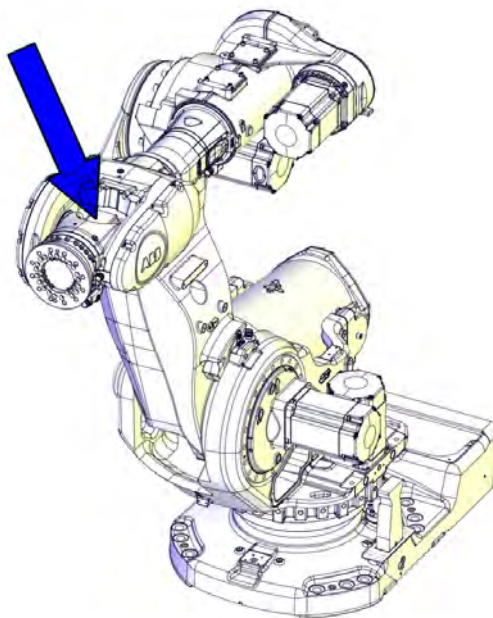
	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	21522012-430	X	X	X	X	X	X
B	Pinion	3HAC10122-17	X	X	X	X	X	X

1 Spare parts

1.8.6 Axis-6 motor (including pinion)

1.8.6 Axis-6 motor (including pinion)

Axis-6 motor



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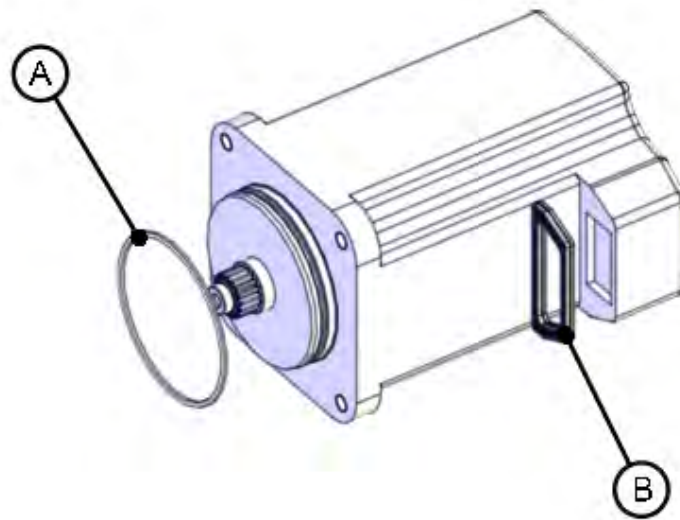
Spare part list - axis-6 motor

The spare part motor includes: pinion, connection box, cover and o-rings.

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Motor axis 6	3HAC057544-003	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC057544-004	Standard/Foundry	Graphite White	X	X	X	X	X	X
	3HAC060328-001	Foundry Prime	Grey	X	X	X	X	X	X

Continues on next page

Other parts



xx1500002668

Spare part list - other parts axis-6 motor

	Description	Spare part number	Protection type	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	21522012-430		X	X	X	X	X	X
B	Gasket	3HAC048560-001	Foundry Plus	X	X	X	X	X	X
-	Gasket, cover	3HAC033489-001	Foundry Plus	X	X	X	X	X	X

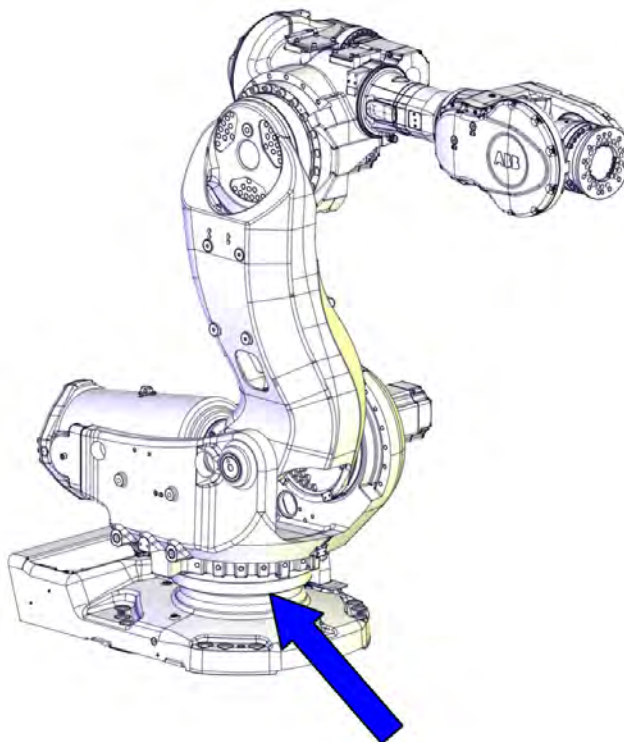
1 Spare parts

1.9.1 Axis-1 gearbox

1.9 Spare parts - Gearboxes

1.9.1 Axis-1 gearbox

Axis-1 gearbox



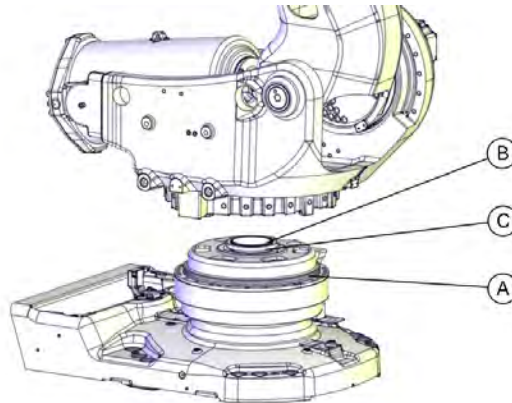
xx1500002669

Spare part list - axis-1 gearbox

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Gear axis 1	3HAC037638-002	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC037638-005	Standard/Foundry	Graphite White	X	X	X	X	X	X
	3HAC037638-004	Foundry Prime	Grey	X	X	X	X	X	X

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Other parts



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Spare part list - other parts axis-1 gearbox

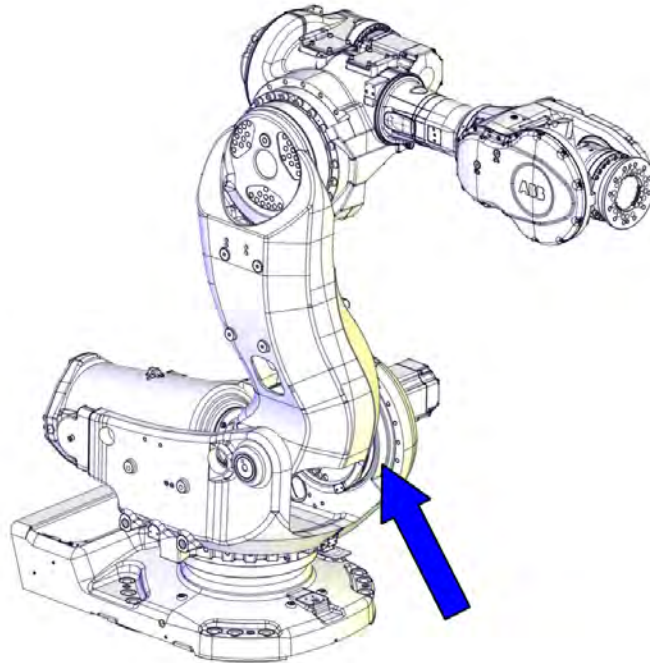
	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	3HAB3772-54	X	X	X	X	X	X
B	O-ring	3HAB3772-55	X	X	X	X	X	X
C	Sealing ring	3HAC11581-4	X	X	X	X	X	X

1 Spare parts

1.9.2 Axis-2 gearbox

1.9.2 Axis-2 gearbox

Axis-2 gearbox



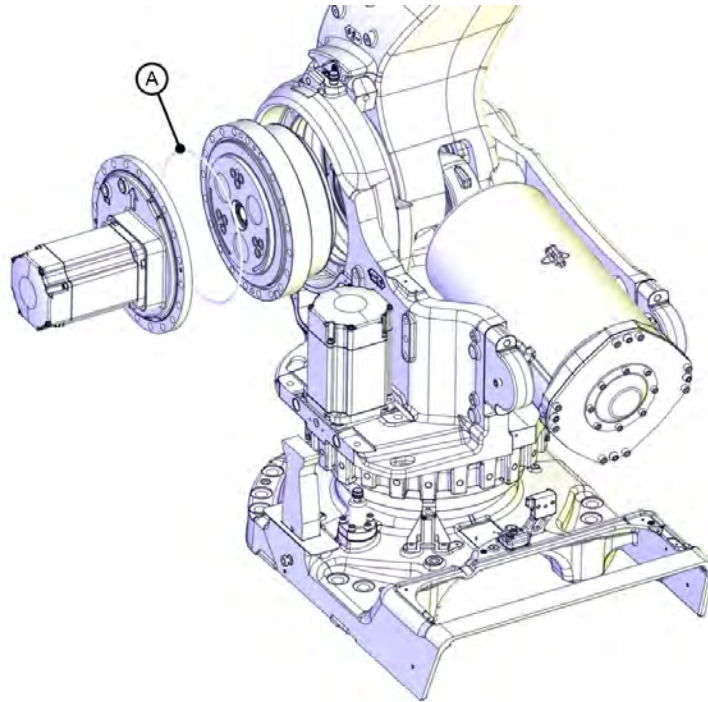
xx1500002825

Spare part list - axis-2 gearbox

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Gear axis 2	3HAC037820-002	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC037820-003	Standard/Foundry	Graphite White	X	X	X	X	X	X
	3HAC037820-001	Foundry Prime	Grey	X	X	X	X	X	X

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Other parts



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Spare part list - other parts axis-2 gearbox

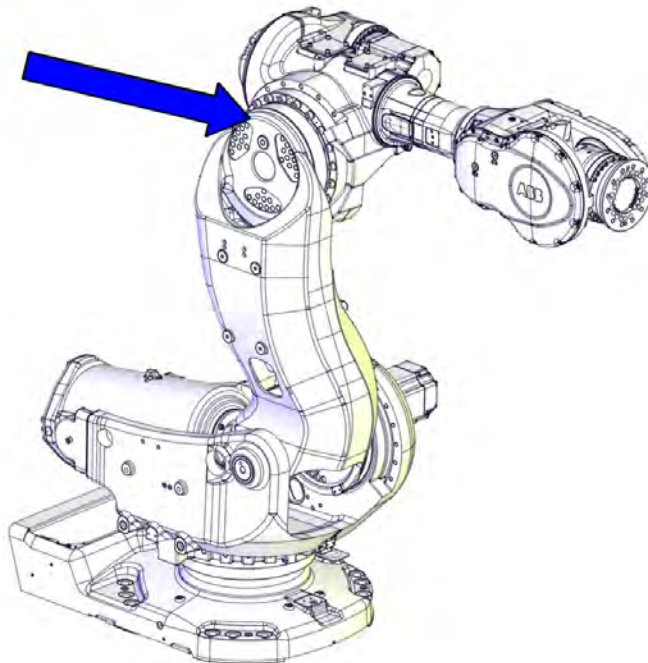
	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	3HAB3772-51	X	X	X	X	X	X
-	Magnetic plug	3HAC16721-1	X	X	X	X	X	X

1 Spare parts

1.9.3 Axis-3 gearbox

1.9.3 Axis-3 gearbox

Axis-3 gearbox



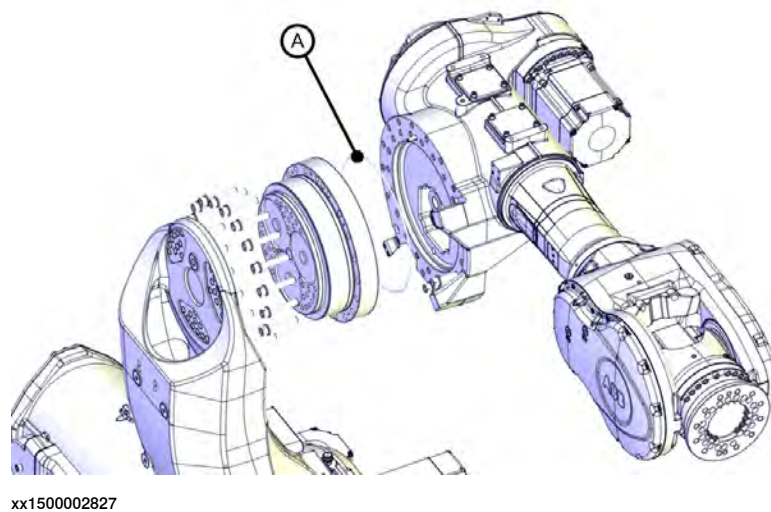
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Spare part list - axis-3 gearbox

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Gear axis 3	3HAC031580-001	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC031580-004	Foundry Prime	Grey	X	X	X	X	X	X
	3HAC031580-006	Standard/Foundry	Graphite White	X	X	X	X	X	X

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Other parts



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Spare part list - other parts axis-3 gearbox

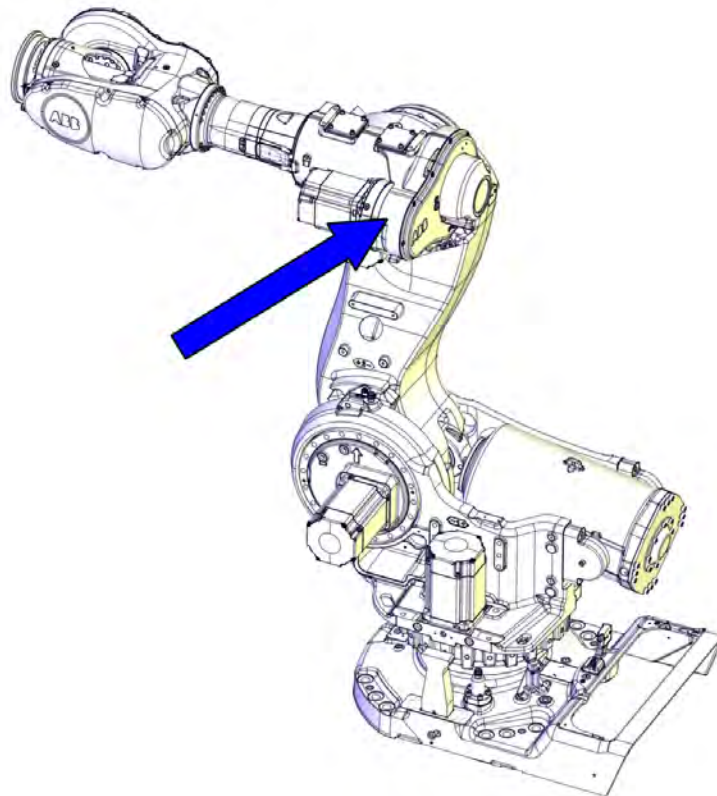
	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	3HAB3772-51	X	X	X	X	X	X
-	Magnetic plug	3HAC16721-1	X	X	X	X	X	X

1 Spare parts

1.9.4 Axis-4 gearbox

1.9.4 Axis-4 gearbox

Axis-4 gearbox



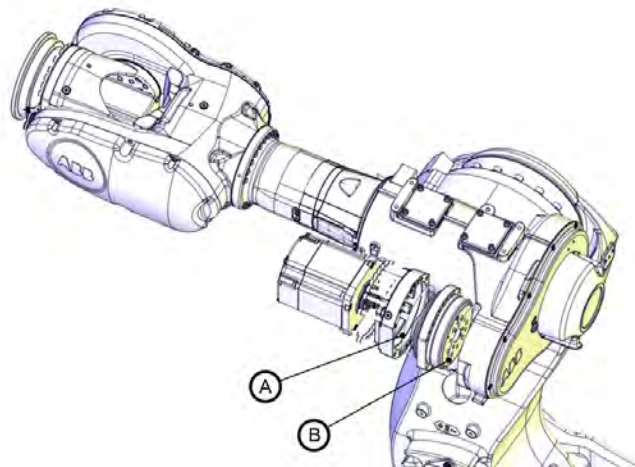
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Spare part list - axis-4 gearbox

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Gear axis 4	3HAC037778-002	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC037778-004	Standard/Foundry	Graphite White	X	X	X	X	X	X
	3HAC037778-001	Foundry Prime	Grey	X	X	X	X	X	X

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Other parts



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Spare part list - other parts axis-4 gearbox

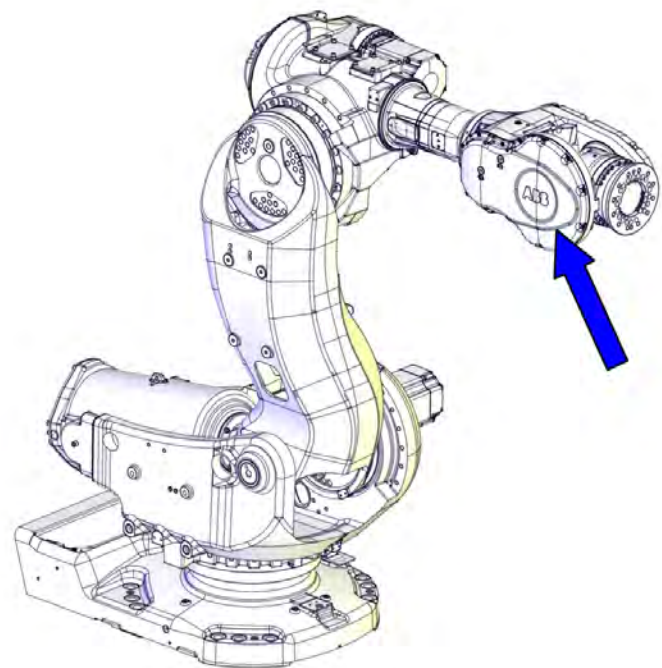
	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	3HAB3772-49	X	X	X	X	X	X
B	O-ring	3HAB3772-50	X	X	X	X	X	X
-	Magnetic plug	3HAC16721-1	X	X	X	X	X	X

1 Spare parts

1.9.5 Axis-5 gearbox

1.9.5 Axis-5 gearbox

Axis-5 gearbox

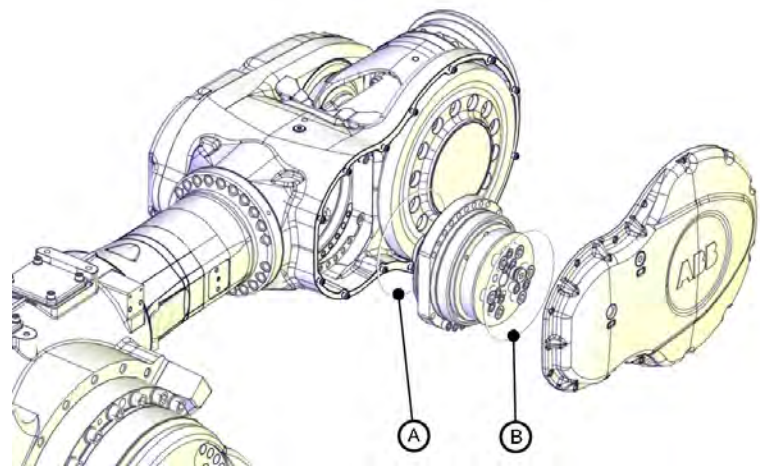


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Spare part list - axis-5 gearbox

Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Gear axis 5	3HAC037778-003	X	X	X	X	X	X

Other parts



xx1500002831

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Spare part list - other parts axis-5 gearbox

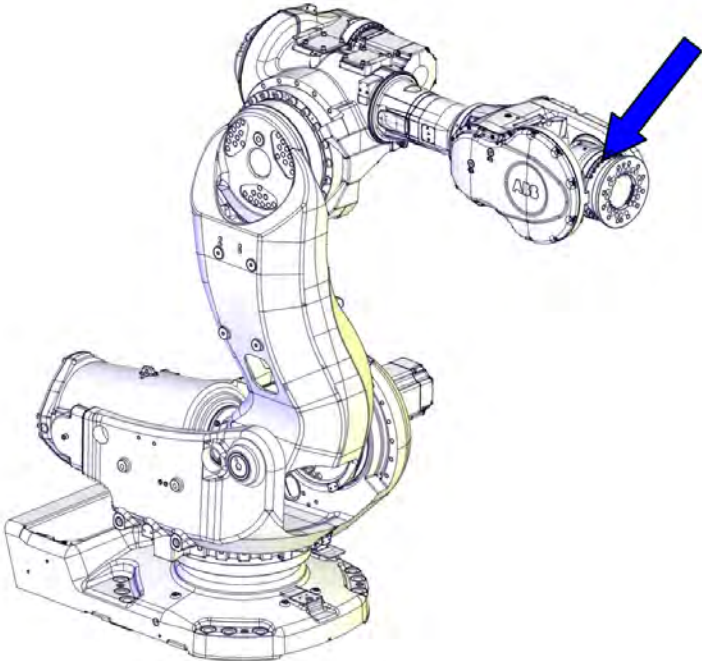
	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	3HAB3772-49	X	X	X	X	X	X
B	O-ring	3HAB3772-50	X	X	X	X	X	X
-	Magnetic plug	3HAC16721-1	X	X	X	X	X	X

1 Spare parts

1.9.6 Axis-6 gearbox

1.9.6 Axis-6 gearbox

Axis-6 gearbox

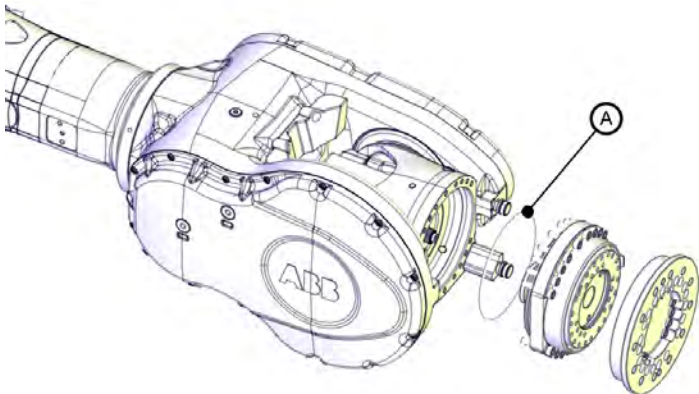


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Spare part list - axis-6 gearbox

Description	Spare part number	Protection type	Color	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
Gear axis 6	3HAC037639-002	Standard/Foundry	ABB Orange	X	X	X	X	X	X
	3HAC037639-001	Foundry Prime	Grey	X	X	X	X	X	X

Other parts



xx1500002833

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Spare part list - other parts

	Description	Spare part number	500/ 2.55	500/ 2.3	400/ 2.55	340/ 2.8	325/ 3.1	150/ 3.5
A	O-ring	3HAB3772-49	X	X	X	X	X	X

1 Spare parts

1.10 Spare parts - Calibration items

1.10 Spare parts - Calibration items

Calibration items

Spare part number	Description	Note
3HAC056806-001	Protection cover and plug set	Contains replacement calibration pin covers and protective plugs for the bushing.

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W

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