

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

ABB ROBOTS

3HAC021350-001

INDUSTRIAL MOTOR

Applicable product family: ABB robotics and control systems

OFFICIAL SOURCE

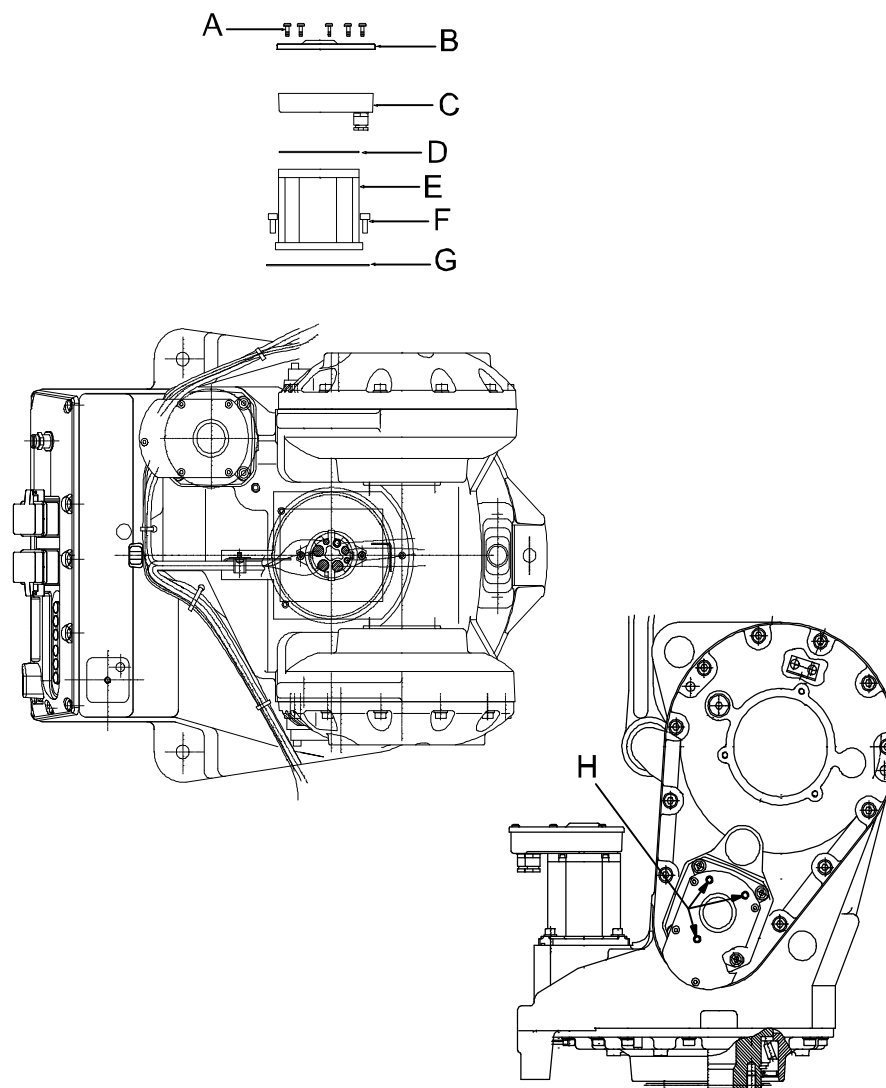
irb2400.pdf

The following pages are selected from the supplied manufacturer document and retain their original page content.

4.7.2 Replacement of motor, axis 2

Location of motor, axis 2

The motor, axis 2, is located on the left hand side of the robot as shown in the figure below:



xx0200000470

A	Attachment screws, cover (5 pcs)
B	Cover
C	Connection box
D	Gasket
E	Motor, axis 2
F	Attachment screws, motor (4 pcs)
G	O-ring
H	Correct orientation of holes on top of motor

Continues on next page

4 Repair

4.7.2 Replacement of motor, axis 2

Continued

Required equipment



Note

The different motors are not compatible. Make sure to replace with correct model!

Equipment, etc.	Spare part no.	Art. no.	Note
Motor, axis 2	3HAC4790-1		(Elmo)
Motor, axis 2	3HAC021350-001		Color: ABB Orange (Yaskawa)
	3HAC021350-003		Color: Graphite White (Yaskawa)
O-ring		21522012-434	Always fit a new one!
Gasket		3HAB3676-1	
Measuring tool, motor		3HAB7887-1	
Power supply			24 VDC, max. 1.5 A. For releasing the brakes.
Standard toolkit			The content is defined in the section Standard tools on page 230 .
Calibration Pendulum toolkit		3HAC15716-1	Complete kit that also includes operating manual.
Other tools and procedures may be required. See references to these procedures in the step-by-step instructions below.			These procedures include references to the tools required.
Circuit diagram			See the chapter Circuit diagram on page 235 .



CAUTION

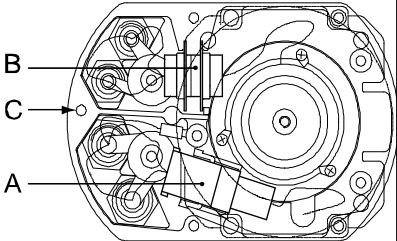
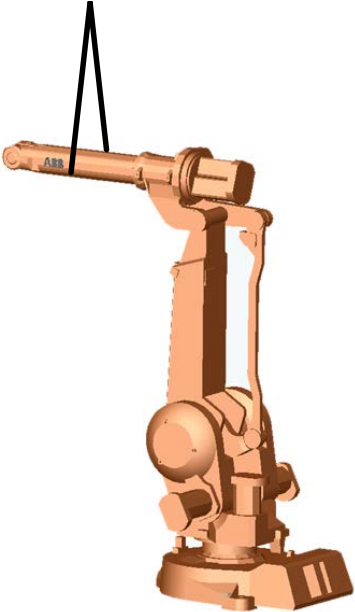
Always cut the paint with a knife and grind the paint edge when disassembling parts. See [Cut the paint or surface on the robot before replacing parts on page 113](#).

Removal, motor axis 2

The procedure below details how to remove the motor, axis 2.

	Action	Note/Illustration
1	 DANGER Turn off all electric power, hydraulic and pneumatic pressure supplies to the robot!	
2	Remove the cover of the connection box.	Shown in the figure Location of motor, axis 2 on page 173 .

Continues on next page

	Action	Note/Illustration
3	Disconnect the motor connectors R3.MP2 and R3.FB2.	 xx0200000401 • A: R3.MP2 • B: R3.FB2 • C: Connection box
4	Remove the connection box by unscrewing its three attachment screws and plain washers.	
5	Use a marker pen to mark out the position of the motor, if the same motor is to be refitted.	
6	 DANGER Secure the weight of the lower arm properly before releasing the brakes of motor, axis 2! When releasing the holding brakes of the motor, the lower arm will be movable and may fall down!	Secure the robot arms before unscrewing any of the attachment screws of the axis 2 motor.  xx0700000660
7	 WARNING Oil will be running out of the motor attachment hole when removing the motor! It may also be hot! Take any necessary measures to collect the oil.	
8	Unscrew the four <i>attachment screws and washers</i> of the motor.	Shown in the figure Location of motor, axis 2 on page 173 .
9	Remove the motor by gently lifting it straight out.	

Continues on next page