

Service Box S4C

Description:

This kit contains necessary hardware for S4Cplus controller

Benefits:

The configuration of these boxes based on experience from service technician's world – wide, warranty claims and internal research.

This Box is available and special designed for

- ◆ All ABB Organisations
- ◆ Partner Channel
- ◆ (End-)Customer with large volume of ABB Robots

On the next page you will find a summary of the single spare part packages with parts and article number.

How to use the technical documentation

The Service box for each controller type is based on a standard package in combination with a specific list of parts for the robot type!

Note:

- ◆ **It might be that the configurations for some Service boxes like IRB 340 M98, IRB 400 M98 and IRB 6400 M98 are similar to each other even when they have different article numbers! Please check with your local ABB logistic team which combination of service boxes is best for your production.**
- ◆ **When you think about buying different service boxes for one robot type of different year models it might be useful to contact your local ABB logistic team which combination of service boxes is best for your production, too.**

For all service boxes a Manual CD for the specific robot type is included. Please write the language you prefer on the order paper.

Service boxes for all not listed robots only on request. Part list can change and will be updated by the supply unit.



NOTE:

Compatibility:

DSQC363 (Robot Computer) is NOT supported in RW3.2. If cold booting with RW3.2, there will be an overflow in the flash memory on the robot computer, and a special tool at the supplier is needed to recover the flash. Ensure there is a DSQC 373 (Robot Computer) installed in the Robot Controller before starting to boot 3.2.

3HAC 1462-1	Robot computer	DSQC 363	BaseWare 3,0 or 3.1
3HAC 3180-1	Robot computer	DSQC 373	BaseWare 3.1 or 3.2

Please check with the customer the configuration of the controller, especially which BaseWare is used together with the robot controller. For further information have a look on the Technical Information for Upgrade 3.2 BaseWare.

Service boxes for all not listed robots only on request. Part list can change and will be updated by the supply unit.

S4C M97 CONTROLLER

3HAC 16511-6 IRB 1400 M97

Parts list:

Part number	Description	Quantity
3HAB 6988-1	Automatic fuse drive system 20A	1
3HAB 9485-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAB 5845-1	Power supply	1
3HAB 2038-1	Battery	1
3HAB 5960-1	Robot computer	1
3HAB 2241-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	1
3HAB 7311-1	Fan	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1

Drive system

3HAB 8101-1	Rectifier DC0	1
3HAB 8101-5	Drive Unit AAD	1

FOR HANGING ROBOTS PLEASE ORDER THE FOLLOWING DRIVE UNIT AND ADD THE DRIVE UNIT TO YOUR SERVICE BOX

3HAB 8101-6	Drive Unit BAD	1
-------------	----------------	---

3HAC 16511-7 IRB 2400 M97

Parts list:

Part number	Description	Quantity
3HAB 6988-1	Automatic fuse drive system 20A	1
3HAB 9485-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAB 5845-1	Power supply	1
3HAB 2038-1	Battery	1
3HAB 5960-1	Robot computer	1
3HAB 2241-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	1
3HAB 7311-1	Fan	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-2	Rectifier DC1	1
3HAB 8101-6	Drive Unit BAD	1
3HAB 8101-7	Drive Unit CCB	1

3HAC 16511-8 IRB 4400 M97

Parts list:

Part number	Description	Quantity
3HAB 6988-1	Automatic fuse drive system 20A	1
3HAB 9485-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAB 5845-1	Power supply	1
3HAB 2038-1	Battery	1
3HAB 5960-1	Robot computer	1
3HAB 2241-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	1
3HAB 7311-1	Fan	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-3	Rectifier DC2	1
3HAB 8101-8	Drive Unit GT	1

3HAC 16511-9 IRB 6400 M97

Parts list:

Part number	Description	Quantity
3HAB 6988-1	Automatic fuse drive system 20A	1
3HAB 9485-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAB 5845-1	Power supply	1
3HAB 2038-1	Battery	1
3HAB 5960-1	Robot computer	1
3HAB 2241-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	1
3HAB 7311-1	Fan	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-3	Rectifier DC2	1
3HAB 8101-8	Drive Unit GT	1

S4C M97A CONTROLLER

3HAC 16511-10 IRB 1400 M97A

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAB 5845-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAB 2241-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-1	Rectifier DC0	1
3HAB 8101-5	Drive Unit AAD	1
FOR HANGING ROBOTS PLEASE ORDER THE FOLLOWING DRIVE UNIT AND ADD THE DRIVE UNIT TO YOUR SERVICE BOX		
3HAB 8101-6	Drive Unit BAD	1

3HAC 16511-11 IRB 2400 M97A

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAB 5845-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAB 2241-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-2	Rectifier DC1	1
3HAB 8101-6	Drive Unit BAD	1
3HAB 8101-7	Drive Unit CCB	1

3HAC 16511-12 IRB 4400 M97A

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAB 5845-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAB 2241-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-3	Rectifier DC2	1
3HAB 8101-8	Drive Unit GT	1

3HAC 16511-13 IRB 640 M97A

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAB 5845-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAB 2241-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-4	Rectifier DC3 (Step down)	1
3HAB 8101-8	Drive Unit GT	1

3HAC 16511-14 IRB 6400 M97A

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAB 5845-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAB 2241-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-3	Rectifier DC2	1
3HAB 8101-8	Drive Unit GT	1

S4C M98 CONTROLLER

3HAC 16511-15 IRB 340 M98

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAC 3462-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	10
3HAB 7311-1	Fan	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-3	Rectifier DC2	1
3HAB 8101-8	Drive Unit GT	1



3HAC 16511-16 IRB 1400 M98

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAC 3462-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	10
3HAB 7311-1	Fan	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-1	Rectifier DC0	1
3HAB 8101-5	Drive Unit AAD	1
FOR HANGING ROBOTS PLEASE ORDER THE FOLLOWING DRIVE UNIT AND ADD THE DRIVE UNIT TO YOUR SERVICE BOX		
3HAB 8101-6	Drive Unit BAD	1

3HAC 16511-17 IRB 2400 M98

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAC 3462-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	10
3HAB 7311-1	Fan	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-2	Rectifier DC1	1
3HAB 8101-6	Drive Unit BAD	1
3HAB 8101-7	Drive Unit CCB	1
3HAB 8101-11	Drive Unit ECB	1

3HAC 16511-18 IRB 4400 M98

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAC 3462-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	10
3HAB 7311-1	Fan	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-3	Rectifier DC2	1
3HAB 8101-8	Drive Unit GT	1

3HAC 16511-19 IRB 640 M98

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAC 3462-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	10
3HAB 7311-1	Fan	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-4	Rectifier DC3 (Step down)	1
3HAB 8101-8	Drive Unit GT	1

3HAC 16511-20 IRB 6400R M98

Parts list:

Part number	Description	Quantity
3HAC 0870-2	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAB 7420-1	Floppy disc cable	1
3HAC 3462-1	Power supply	1
3HAB 2038-1	Battery	1
3HAC 1462-1	Robot computer	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HAB 7215-1	Panel unit	1
5672 817-17	Fuse 2A	10
3HAB 7311-1	Fan	1
3HAB 9165-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-3	Rectifier DC2	1
3HAB 8101-8	Drive Unit GT	1

S4C M99 CONTROLLER

3HAC 16511-21 IRB 340 M99

Parts list:

Part number	Description	Quantity
3HAC 0870-3	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAC 4802-1	Fuse 15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAC 6478-1	Floppy disc cable	1
3HAC 1620-1	Power supply	1
3HAB 2038-1	Battery (RW memory)	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HNE 00001-1	Ethernet board	1
3HAB 7215-1	Panel unit	1
3HAB 7311-1	Fan	1
3HAC 4560-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-3	Rectifier DC2	1
3HAB 8101-8	Drive Unit GT	1

3HAC 16511-22 IRB 1400 M99

Parts list:

Part number	Description	Quantity
3HAC 0870-3	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAC 4802-1	Fuse 15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAC 6478-1	Floppy disc cable	1
3HAC 1620-1	Power supply	1
3HAB 2038-1	Battery (RW memory)	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HNE 00001-1	Ethernet board	1
3HAB 7215-1	Panel unit	1
3HAB 7311-1	Fan	1
3HAC 4560-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-1	Rectifier DC0	1
3HAB 8101-5	Drive Unit AAD	1

FOR HANGING ROBOTS PLEASE ORDER THE FOLLOWING DRIVE UNIT AND ADD THE DRIVE UNIT TO YOUR SERVICE BOX

3HAB 8101-6	Drive Unit BAD	1
-------------	----------------	---

3HAC 16511-23 IRB 2400 M99

Parts list:

Part number	Description	Quantity
3HAC 0870-3	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAC 4802-1	Fuse 15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAC 6478-1	Floppy disc cable	1
3HAC 1620-1	Power supply	1
3HAB 2038-1	Battery (RW memory)	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HNE 00001-1	Ethernet board	1
3HAB 7215-1	Panel unit	1
3HAB 7311-1	Fan	1
3HAC 4560-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-2	Rectifier DC1	1
3HAB 8101-6	Drive Unit BAD	1
3HAB 8101-7	Drive Unit CCB	1
3HAB 8101-11	Drive Unit ECB	1

3HAC 16511-24 IRB 4400 M99

Parts list:

Part number	Description	Quantity
3HAC 0870-3	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAC 4802-1	Fuse 15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAC 6478-1	Floppy disc cable	1
3HAC 1620-1	Power supply	1
3HAB 2038-1	Battery (RW memory)	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HNE 00001-1	Ethernet board	1
3HAB 7215-1	Panel unit	1
3HAB 7311-1	Fan	1
3HAC 4560-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-3	Rectifier DC2	1
3HAB 8101-8	Drive Unit GT	1

3HAC 16511-25 IRB 640 M99

Parts list:

Part number	Description	Quantity
3HAC 0870-3	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAC 4802-1	Fuse 15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAC 6478-1	Floppy disc cable	1
3HAC 1620-1	Power supply	1
3HAB 2038-1	Battery (RW memory)	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HNE 00001-1	Ethernet board	1
3HAB 7215-1	Panel unit	1
3HAB 7311-1	Fan	1
3HAC 4560-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-4	Rectifier DC3 (Step down)	1
3HAB 8101-8	Drive Unit GT	1

3HAC 16511-26 IRB 6400R M99

Parts list:

Part number	Description	Quantity
3HAC 0870-3	Automatic fuse drive system 20A	1
3HAC 0871-1	Automatic fuse power supply 10A	1
5672 832-22	Fuse 6.3A	10
5672 817-19	Fuse 3.15A	10
3HAC 4802-1	Fuse 15A	10
3HAB 5171-2	Emergency stop button	1
3HAB 5171-10	Emergency stop block	1
3HAB 2480-1	Floppy disc driver	1
3HAC 6478-1	Floppy disc cable	1
3HAC 1620-1	Power supply	1
3HAB 2038-1	Battery (RW memory)	1
3HAC 3180-1	Robot computer	1
3HAC 0373-1	Main computer 25 MHz	1
3HNE 00001-1	Ethernet board	1
3HAB 7215-1	Panel unit	1
3HAB 7311-1	Fan	1
3HAC 4560-1	Brake resistor	1
3HNE 00313-1	Teach pendant with backlight	1
3HAB 8757-1	Motor On contactor	1
3HAB 5957-1	Memory board 16Mb	1
3HAB 7229-1	Digital I/O unit	1
3HAB 7230-1	Combi I/O unit	1
Drive system		
3HAB 8101-13	Drive Unit GU	1
3HAB 8101-14	Rectifier DC4	1