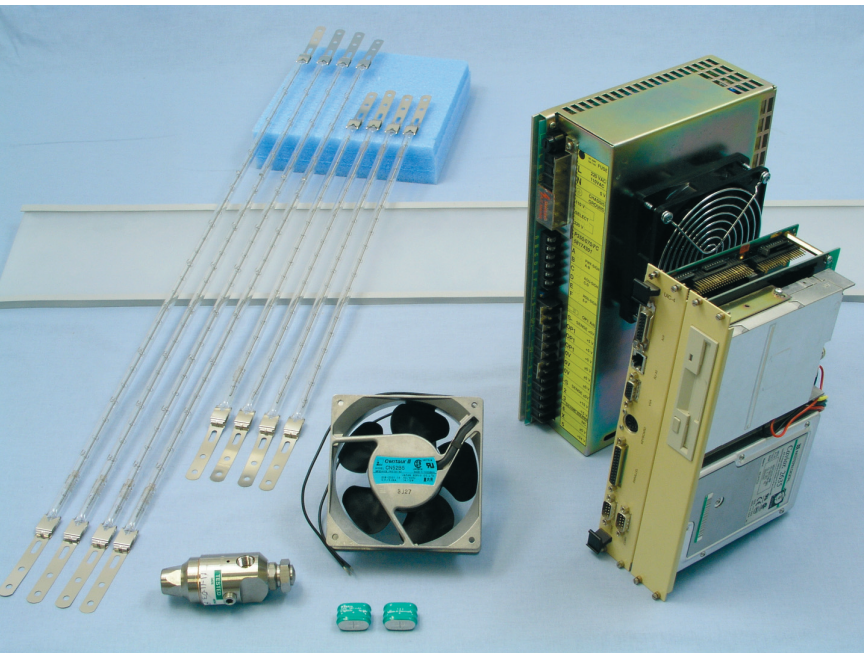


Industrial^{IT} Web Imaging Solution ULMA 3D preventive maintenance kits



A preventive maintenance kit is a selected package of parts needed for ULMA 3D preventive maintenance.

Benefits

- Pre-defined, genuine service parts are provided according to the maintenance schedule
- Easy-to-order material package
- Kit prices are more economical than the purchase prices of individual parts
- Reduced maintenance costs
- Easy-to-plan long-term maintenance material budget
- Increased maintenance performance efficiency

Service provides

The delivered Preventive maintenance (PM) kits contain the most important parts for preventive maintenance, see list below:

- Fans of SELMA
- Fans of operation station cabinet
- Batteries of SELMA
- Power supply of SEPU
- Power supply P350

Preventive maintenance kits contain all the necessary replacement parts for the specific scheduled maintenance. The content of each kit is carefully defined to match to ULMA 3D maintenance schedule.

The kits have been specified based on ABB's extensive Web Imaging system and component maintenance experience.

- UIC-unit
- Battery of UIC
- Fan of power supply cabinet
- Air filters
- Capacitors of power supply unit
- UV-filters
- Lamps
- Thermo-glasses
- Reflectors
- Nozzles
- Fans of detector and light source beam
- Air hoses
- Printer
- Monitors

PM kits can be selected and ordered according to the ULMA 3D system configuration and its age. Every PM kit has a type code that makes ordering straightforward and easy.

Product Lifecycle Services

- Installation & Commissioning
- Training
- Support & Remote Services
- Spare Parts & Repairs
- Maintenance & Field Services
- Migration & Retrofits
- Optimization



Preventive maintenance kit ordering

PM kits are delivered on a lead-time basis, contrary to normal spare parts, hence the PM kits must be ordered well in advance of the planned preventive maintenance.

More information regarding PM kits, their contents, delivery time and prices visit: www.abb.com/partsonline.

Maintenance schedule

There is still a commonly held belief that industrial products equipped with electronic components do not require specific maintenance. Based on ABB's experience, however, failure probability of such equipment increases after years of operation.

For Web Imaging products this period is typically 3 to 10 years. One of the main reasons for failures is aging of components, but it is also highly affected by operational conditions.

A maintenance schedule provides a systematic and functional means of maintaining the Web Imaging systems. It is based on extensive experience and knowledge of manufacturing and maintaining Web Imaging systems. Specifications of component suppliers are observed carefully.

The environmental and operational conditions of the system are also considered. Demanding environment, such as high ambient temperature, humidity, dirtiness or vibrations, can measurably shorten the component lifetime and also the maintenance and component replacement intervals.

ABB recommends an annual inspection in addition to regular maintenance to be carried out to ensure optimum Web Imaging system performance through its entire lifetime.

	Years from start-up																					
	0	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Start-up	P																					
Operation Station																						
➢ Measurement of aux. voltages		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
➢ Fans of SELMA		I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	
➢ Fan of cabinet		I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	
➢ Cleanliness of SELMA rack		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
➢ Batteries of SELMA		R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	
➢ Power supply of SEPU		I	I	I	I	R	I	I	I	I	I	I	R	I	I	I	I	I	I	I	R	
➢ Power supply P350		I	I	I	R	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	R	
➢ UIC-unit		I	I	I	R	I	I	I	I	I	R	I	I	I	I	I	R	I	I	I	I	
➢ Battery of UIC		R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	
Parameters																						
➢ Inspection and change if necessary		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
➢ Backup of parameters		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Power Supply Cabinet																						
➢ Measurement of aux. voltages		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
➢ Thyristor bridge and firing unit		I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	
➢ Fan of cabinet		I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	
➢ Tightness of supply cable connections		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
➢ Air filters		R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	
Power Supply Box																						
➢ Measurement of aux. voltages		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
➢ Capacitors of power supply unit		I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	
Camera beam																						
➢ Cleaning		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
➢ UV-filters		I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	
➢ Cameras: focus and adjustment		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
➢ Fiber optic cables (connections)		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
Light Source Beam																						
➢ Cleaning		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
➢ Lamps		I	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	I	R	I	I	
➢ Thermo-glasses		I	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	I	R	I	I	
➢ Reflectors		I	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	I	R	I	I	
Color Marker																						
➢ Cleaning		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
➢ Function test		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
➢ Retraction motor		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
➢ Color injection		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
➢ Nozzles		I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	
Cooling fan for detector and light source beams																						
➢ Fan		I	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	I	R	I	I	
➢ Air hoses		R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	I	R	I	
Other devices																						
➢ Keyboard		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
➢ Printer		I	I	I	I	R	I	I	I	I	I	I	R	I	I	I	I	I	I	I	R	
➢ Printer ink ribbon or cartridge		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
➢ Monitors		I	I	I	I	I	I	I	R	I	I	I	I	I	I	I	I	I	R	I	I	
➢ Alarm horn		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
➢ Light panel		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
Spare parts																						
➢ Spare Parts		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	

Legend:
R = Replacement of component
I = Inspection (visual inspection, correction and replacement if needed)
P = Performance of on-site work (commissioning, tests, measurements, etc.)



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