



## Extended Maintenance Service Plan

The Motoman® Extended Maintenance Service Plan is designed to augment customers with a preventive maintenance strategy. The Extended Maintenance Service Plan can help identify impending performance issues with robots in production to ensure that they are addressed before affecting production downtime.

### Plan Includes

- PM checklist will be submitted to customer at time of service
- Complete inspection of manipulator and controller.
- Monitor robot in normal production.
- Perform grease analysis testing.
- Lubrication of manipulator.
- Replacement of internal wiring harness.
- Provide reports on grease analysis and preventive maintenance performed, along with recommendations for the continued performance of robots in production.



## Preventive Maintenance & Grease Analysis Report Examples

MOTOMAN		PREVENTIVE MAINTENANCE SERVICE REPORT		Customer P. O. No. _____	
Customer _____		Controller _____		Software Version _____	
Contact Name _____		Manipulator _____		Application Type _____	
Date _____		Serial Number _____		Servo Hours _____	
Technician _____		Warranty ID# _____		Playback Hours _____	
<b>MAINTENANCE SERVICE REQUESTED</b>					
Preventative Maintenance Package <input type="checkbox"/>		Extended Preventative Maintenance Package <input type="checkbox"/>		Other _____	
<b>Manipulator</b>					
<b>Electrical</b>					
Wire Harness Inspection <input type="checkbox"/>					
Motor Cable Lead Inspection <input type="checkbox"/>					
Base Cables <input type="checkbox"/>					
Cable/Strap Damage <input type="checkbox"/>					
Servo On Lamp <input type="checkbox"/>					
Over-Trip/Limit Switch <input type="checkbox"/>					
Weld Chuck <input type="checkbox"/>					
S, L, U Absolute Data Battery <input type="checkbox"/>					
R, B, T Absolute Data Battery <input type="checkbox"/>					
Wire Harness Replacement <input type="checkbox"/>					
<b>Mechanical</b>					
Link Arms <input type="checkbox"/>					
Base Plate Bolts <input type="checkbox"/>					
Cover Screws Present <input type="checkbox"/>					
Pneum. Released & Verified <input type="checkbox"/>					
Home Position Calibration <input type="checkbox"/>					
<b>Drive/Line</b>					
S Axis <input type="checkbox"/>					
L Axis <input type="checkbox"/>					
U Axis <input type="checkbox"/>					
R Axis <input type="checkbox"/>					
B Axis <input type="checkbox"/>					
T Axis <input type="checkbox"/>					
<b>Grease</b>					
Visual Leaks <input type="checkbox"/>					
Condition <input type="checkbox"/>					
Sampled <input type="checkbox"/>					
<b>Controller</b>					
Data Backup <input type="checkbox"/>					
CMOS Battery <input type="checkbox"/>					
Absolute Data Battery <input type="checkbox"/>					
Absolute Data Timers (set Door) <input type="checkbox"/>					
Alarm History <input type="checkbox"/>					
Cabinet Cooling <input type="checkbox"/>					
Servo Pack & CPU Cooling Fans <input type="checkbox"/>					
Cabinet Cooling Fans (Rear & Door) <input type="checkbox"/>					
<b>Teach Pendant</b>					
Upper & Lower Casing <input type="checkbox"/>					
Application Overlay <input type="checkbox"/>					
3 Position Enable Switch <input type="checkbox"/>					
LCD Screen (Touch Screen) <input type="checkbox"/>					
Emergency Stop Button <input type="checkbox"/>					
Teach Pendant Hanger <input type="checkbox"/>					
Hand Strap <input type="checkbox"/>					
Pendant Cable & Connections <input type="checkbox"/>					
<b>Playback Box</b>					
Emergency Stop Button <input type="checkbox"/>					
Start Button & Light <input type="checkbox"/>					
Hold Button & Light <input type="checkbox"/>					
Teach Mode Button <input type="checkbox"/>					
Play Mode Button <input type="checkbox"/>					
Remote Mode Button <input type="checkbox"/>					
<b>Brake Release Test</b>					
S Axis <input type="checkbox"/>					
L Axis <input type="checkbox"/>					
U Axis <input type="checkbox"/>					
R Axis <input type="checkbox"/>					
B Axis <input type="checkbox"/>					
T Axis <input type="checkbox"/>					
<b>Notes</b>					
Name _____ Date _____					
Signature _____					
WHITE - CSO		YELLOW - CUSTOMER COPY		PINK - TECHNICIAN	
				CSTP-260 10/31/07	

PM Date	12/13/2008		
Servo Hours	30000		
<b>Recommendations</b>			
AXIS	Weight %	Judgement	Counter Measure
1: S	0.01	Within Normal Range	Continue current grease management practices
2: L	0.02	Within Normal Range	Continue current grease management practices
3: U	0.03	Within Normal Range	Continue current grease management practices
4: R	0.02	Within Normal Range	Continue current grease management practices
5: B	0.02	Within Normal Range	Continue current grease management practices
6: T	0.04	Within Normal Range	Continue current grease management practices

