

6 PREVENTATIVE MAINTENANCE

6.1 Maintenance and Inspection Table

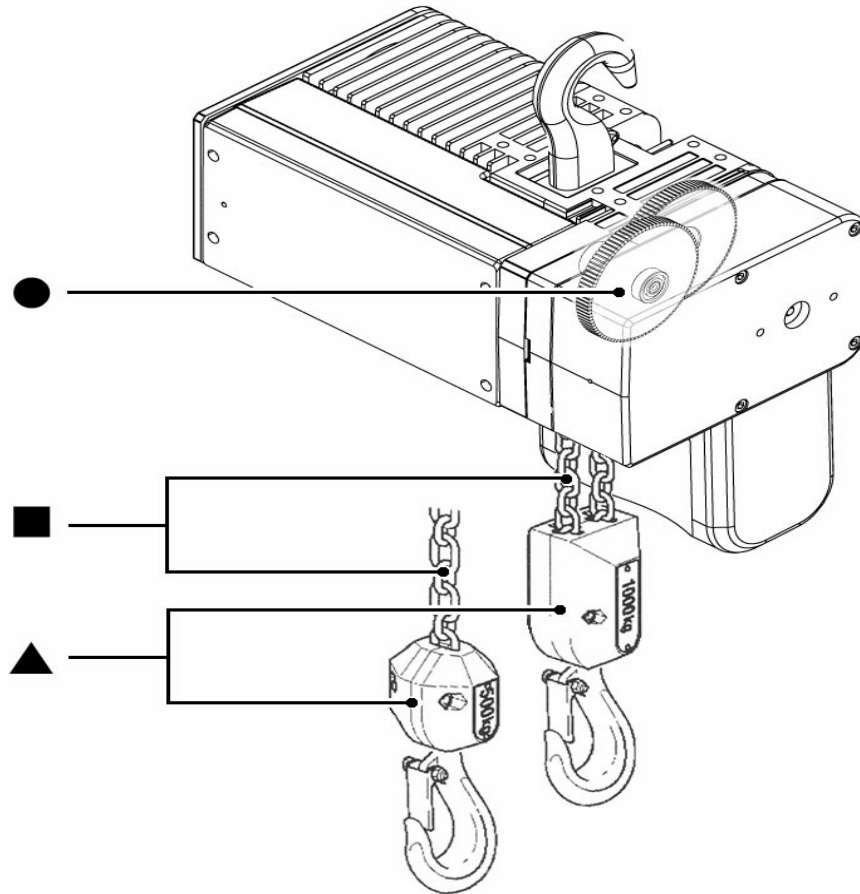
Table 6. Maintenance and Inspection Schedule

INSPECTION CHECK	INTERVAL	QUALIFIED PERSON
BRAKE OPERATION FOR HOLDING AND RELEASING	DAILY	OPERATOR
LOAD CHAIN FOR DAMAGE	DAILY	OPERATOR
SUSPENSION SUPPORT OF P/ B ASSEMBLY	DAILY	OPERATOR
CLEANLINESS & LUBRICATION OF LOAD CHAIN	MONTHLY	OPERATOR
UPPER / LOWER LIMIT SWITCHES	DAILY	OPERATOR
CHECK LOAD CHAIN FOR WEAR – MEASURE AND RECORD	EVERY 3 MONTHS	QUALIFIED INSPECTOR
CHECK HOOKS FOR WEAR MEASURE AND RECORD	EVERY 3 MONTHS	QUALIFIED INSPECTOR
CHECK LOAD BLOCK HARDWARE TO VERIFY TIGHTNESS	EVERY 3 MONTHS	OPERATOR
CHECK TOP HOOK / COUPLING HARDWARE FOR TIGHTNESS	EVERY 3 MONTHS	OPERATOR
CHECK SLIP CLUTCH & HOIST BRAKE ADJUSTMENT	EVERY 3 -6 MONTHS	QUALIFIED MECHANIC
CHECK LUBRICATION OF OPEN WHEEL GEARING	EVERY 3 -6 MONTHS	QUALIFIED MECHANIC
CHECK WIRE TERMINALS TIGHTNESS	SEMI-ANNUALLY	QUALIFIED MECHANIC
LUBRICATE 2-FALL LOAD BLOCK SPROCKET	ANNUALLY	OPERATOR
CHECK ALL HARDWARE FOR TIGHTNESS AND CORROSION	ANNUALLY	QUALIFIED MECHANIC
CLEAN MOTOR COOLING FINS	ANNUALLY	QUALIFIED MECHANIC
LUBRICATE ALL GEARING	ANNUALLY	QUALIFIED MECHANIC
INSPECT LOAD BLOCK THRUST BEARING	ANNUALLY	QUALIFIED MECHANIC



CAUTION: INSPECTION AND MAINTENANCE INTERVALS SHOULD BE ADJUSTED BASED UPON OWNER / USER KNOWLEDGE OF APPLICATION, ENVIRONMENT, AND FREQUENCY OF USE TO PREVENT DAMAGE TO PEOPLE, EQUIPMENT, AND FACILITIES.

6.2 Lubrication



OPEN WHEEL GEARING: MOBILUX EP1 OR EQUIVALENT

Table 7. Lubrication Specifications

LUBRICATION POINT / QTY	SPECIFICATIONS	POSSIBLE BRANDS
■ AS REQUIRED	Oil or liquid grease	Chain lubricant (Ceplattyn or similar) EP-90
▲ AS REQUIRED	GREASE (without MoS2) KP 2 (DIN 51 502) Soap-based lithium Temperature -4°F to 266°F	BP Energrease LS - EP 2 ESSO Unirex N2 Mobil grease HP Shell Alvanio EP Grease 2
● 0.05 LITER	KP 0 K grease (DIN 51502) Soap-based lithium + MoS2 Temperature -30°C to 130°C	Mobil grease special BP Multi-purpose grease L 21 M Shell Retimax AM Texaco Molytex grease EP 2

6.3 Recommended Technical Support for Various Spare Parts

Table 8. Recommended Technical Support for Various Spare Parts

SPARE PART	REPLACED BY
Upper chain guide	Qualified Electrician & Mechanic
Output shaft	Qualified Electrician & Mechanic
PG cable gland	Qualified Electrician
Gear shaft + nuts	Qualified Mechanic
Motor end cap	Qualified Mechanic
Gearing (1st/2nd stage)	Qualified Electrician & Mechanic
Brake & end cap sealing	Qualified Mechanic
Other seals and O-rings	Qualified Mechanic
Brake-limiter	Qualified Electrician
Brake end cap	Qualified Mechanic
Lower chain guide	Qualified Mechanic
Rubber buffer	Qualified Mechanic
Electric box	Qualified Electrician
PC-board	Qualified Electrician
Plugs	Qualified Electrician
Chain	Qualified Mechanic
Chain bucket	Qualified Mechanic
Slack fall stop	Qualified Mechanic
Suspension hook	Qualified Mechanic
Hook block assembly	Qualified Mechanic
Control box	Qualified Electrician



Note: Once a part has been replaced, perform an operational check of hoist per Sections 3.3 and 3.4.

6.4 Screw Tightening Torque (lb-ft) Specifications

Table 9. Screw Tightening Torque Specifications

	M5	M6	M8	M10	M12
STANDARD SCREWS	4	7	18	35	61
SELF-TAPING SCREWS	4	6	15	30	53

6.5 Troubleshooting

Table 10. Troubleshooting

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Hoist does not lift or lower load	Emergency stop button is activated	Deactivate button
	Blown fuse	Replace the fuse
	Motor thermal protection activated	Allow motor to cool down
	Pendant plug pin pushed out	Reinstall plug pin
	Contactors terminal screws loose	Tighten screws
	Mainline switch shut off	Turn switch on
Hoist does not lift load	Overload condition	Reduce load
	Slip clutch worn or incorrectly adjusted	Replace wear items or readjust slip clutch torque
	Brake not releasing	Check brake coil resistance. Check air gap setting. Adjust if necessary. Check rectifier output voltage.
Load drifts more than 4 inches [100mm]	Brake lining worn Air gap on brake is too wide	Replace wear items as necessary Adjust air gap setting
Travel direction does not correspond to that indicated on push button	Power supply incorrectly connected	See SECTION 2
Abnormal noises while lifting or lowering	Load chain and its components are not lubricated	Clean and lubricate load chain.
	Load chain is worn	Replace chain
	Chain wheel or chain guide is worn	Replace chain wheel or chain guide
	Idler sprocket is worn	Replace idler sprocket
	A supply phase is missing	Connect the three phases
	Twist or kink in load chain	Remove twist or kink

