



SPECTROLAB, INC. SX-16 NIGHTSUN® INSPECTION AND MAINTENANCE SCHEDULE

* SERVICE LIFE
 ** A/R = AS REQUIRED
 OPN HRS = OPERATIONAL HOURS
 FLT HRS = FLIGHT HOURS

| ASSEMBLY | SUB ASSY | DETAIL PART | TASK | PRE-FLIGHT | DAILY | EACH | EACH | EACH | EACH | |
|-----------------------------|--------------------|-----------------------|-------------------|------------|-------|---|--|---|--|----------|
| | | | | | | 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS | 6 MONTHS OR 300 FLT HRS OR 100 OPN HRS | 12 MONTHS OR 600 FLT HRS OR 250 OPN HRS | 24 MONTHS OR 1200 FLT HRS OR 500 OPN HRS | |
| SEARCH-LIGHT | REAR COVER | AIR FILTER | INSPECT | | • | • | | | | |
| | | | CLEAN | | | • | | | | |
| | | | REPLACE | | | | | • | | |
| | | COVER SCREWS | INSPECT | | • | | | | | |
| | | BLOWER | LISTEN | | • | | | | • | |
| | | REAR COVER FASTENERS | INSPECT | | | | | • | | |
| | WINDOW ASSY | FRONT GLASS | INSPECT | • | | | | | | |
| | | EXTERIOR | CLEAN | • | • | | | | | |
| | | INTERIOR | CLEAN | | | | • | | | |
| | | RUBBER BAFFLE | INSPECT | | | | | | | • |
| | REFLECTOR | REFLECTOR | INSPECT | • | | | | | | |
| | | ASSEMBLY | CLEAN | | | | • | | | |
| | LAMP | LAMP ON | RUN | | | | • | | | |
| | | SHAKEOUT | TEST | | | | • | | | |
| | | QUICK COLD STARTS | TEST | • | | | | | | |
| FULL COLD STARTS | | TEST | | | | • | | | | |
| QUICK HOT STARTS | | TEST | • | | | | | | | |
| FULL HOT STARTS | | TEST | | | | • | | | | |
| OPTICS: | LAMP CENTERING & | TEST | | • | | | | | | |
| LIGHT BEAM | FOCUS CAM | ADJUST A/R** | | | | • | | | | |
| ELEVATION | SCREWS | INSPECT | | | | • | | | | |
| STOP | SQ. DRIVE HOLE | INSPECT | | | | | • | | | |
| HOUSING | THREADED INSERTS | INSPECT | | | | | • | | | |
| | DRIVE BOSSES EXT. | INSPECT | | • | | • | | | | |
| | DRIVE BOSSES INT. | INSPECT | | | | | | • | | |
| CHASSIS INTERNAL INSPECTION | | | INSPECT, LUBE | | | | | | • | |
| GIMBAL | WIRING | MOTOR CABLES | INSPECT | | • | • | | | | |
| | MOTORS | MOTOR(S) FUNCTION | TEST | | • | | | | | |
| | | MOTOR BOOTS | INSPECT | | • | | | | | |
| | | CONNECTORS | INSPECT | | | | • | | | |
| | | | TEST | | | | | • | | |
| | MECHANICAL | AZIMUTH ENDCAP | INSPECT | | • | | | • | | |
| | | EL. GEARBOX TO GIMBAL | INSPECT | | • | | | • | | |
| | | GEARBOX BACKLASH | TEST | | • | | | • | | |
| | | GEARBOX CLUTCHES | TEST | • | | | • | | | |
| | | WINGBOLTS | INSPECT | • | | | | | | |
| | | SAFETY CABLES | INSPECT | • | | | | | | |
| | GIMBAL ARM | FATIGUE & RUST | INSPECT | | | | | • | | |
| | | ALUMINUM ARM | INSPECT / REPLACE | • | | | | • | | 7 YEAR* |
| | | STEEL ARM | INSPECT / REPLACE | • | | | | • | | 10 YEAR* |
| | | UNIBODY | INSPECT | • | | | | • | | |
| EL HARD STOPS (UNIBODY) | | INSPECT | | • | | | • | | | |
| | AZ STOP ROLLPINS | INSPECT | | • | | | • | | | |
| CABLING | EXTERNAL (VISIBLE) | SPLIT CABLE | INSPECT | • | | | | | | |
| | | BULKHEAD CONNR | INSPECT | • | | | | | | |
| | INTERNAL (HIDDEN) | CABLES | INSPECT | | | | | • | | |
| | | BULKHEAD CONN'R | INSPECT | | | | • | | | |
| CONTROL BOX | | JUNCTION BOX | INSPECT | | | | • | | | |
| | | RETRACTILE CABLE | INSPECT | | • | • | | | | |
| | | TEST | | | | • | | | | |
| | SWITCHES | TEST | | • | | | | | | |

REFERENCE MAINTENANCE MANUAL (031734-1) FOR PROCEDURES AND CRITERIA