

NIGHTSUN® XP Series INSPECTION AND MAINTENANCE SCHEDULE

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

ASSEMBLY	SUB ASSEMBLY	DETAIL PART	TASK	PRE-FLIGHT	DAILY	EACH 3 MTHS OR 100 FLT HRS OR 50 OPN HRS	EACH 6 MTHS OR 300 FLT HRS OR 100 OPN HRS	EACH 12 MTHS OR 600 FLT HRS OR 250 OPN HRS
SEARCHLIGHT	COOLING BLOWER	AIR FILTER	INSPECT		•			
			REPLACE			•		
		BLOWER COVER	LISTEN		•			
				INSPECT		•		
	WINDOW	FRONT GLASS OUTSIDE	INSPECT	•				
			CLEAN		•			
		FRONT GLASS INSIDE	INSPECT		•			
			CLEAN			•		
			ADHESIVE BOND	INSPECT			•	
	REFLECTOR/ COLLECTOR	REFLECTOR	INSPECT		•			
			CLEAN			•		
	FRONT SPIDER	ASSEMBLY	INSPECT		•			
		JACK SCREWS	INSPECT		•			
	LAMP	BULB	INSPECT		•			
			TEST	•				
	WING PLATES	SET SCREWS	INSPECT					•
	PIVOT BOLTS	BOLTS	INSPECT					•
	HOUSING	SCREWS	INSPECT			•		
		COVERS	CLEAN A/R					
	FOCUS		TEST	•				
IFCO (IR ONLY)	CABLES	INSPECT	•					
	IR HOOD MOTOR	TEST	•					
	LIGHT LEAKS	INSPECT		•				
GIMBAL	DOVETAIL	INSPECT	•					
		SAFETY LOCKING WIRE CONNECTORS	INSPECT	•				
		SHROUD EDGING	INSPECT			•		
		LUBRICATE				•		
		SAFETY LANYARD	INSPECT			•		
		GEARBOX	INSPECT			•		
		LUBRICATE					•	
	CHASSIS EXT. MOTORS	INSPECT				•		
		TEST	•					
	CABLING	CABLES/CONNECTORS	POWER COMMUNICATION	INSPECT		•		
CONTROL UNIT/PENDANT			INSPECT		•			
INSPECT						•		
COMPONENTS	CONTROL UNIT	SWITCHES	INSPECT			•		
		BACKLIGHTING (IF APPLICABLE)	INSPECT			•		
		CABLE	INSPECT			•		
	JUNCTION BOX	FAN (IF APPLICABLE)	INSPECT			•		
		CONDITION/CONNECTIONS	INSPECT			•		

NOTE: SCHEDULED MAINTENANCE IS TO BE USED AS A RECOMMENDED GUIDELINE AND SHOULD BE ADJUSTED BASED ON ENVIRONMENT AND USE

SEE OPERATIONS MANUAL (DOCUMENT 033566) OR MAINTENANCE MANUAL (DOCUMENT 033566-1) FOR INSPECTION AND MAINTENANCE PROCEDURES

NIGHTSUN® XP Series INSPECTION AND MAINTENANCE SCHEDULE

SPECTROLAB

A BOEING COMPANY

ASSEMBLY	SUB ASSEMBLY	DETAIL PART	INSPECTION PROCESS AND/OR CRITERIA	INTERVAL	
SEARCHLIGHT	COOLING BLOWER	AIR FILTER	A) INSPECT FILTER SCREEN FOR OBSTRUCTIONS THAT MAY LIMIT THE AIR FLOW B) REPLACE IF FILTER IS SHOWS SIGNS OF DETERIORATION OR DAMAGE	A) DAILY B) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS	
		COOLING BLOWER COVER	A) LISTEN TO BLOWER. SHOULD SOUND SMOOTH A) INSPECT COVER IS PROPERLY FASTENED	A) PREFLIGHT A) DAILY	
	WINDOW ASSY	FRONT GLASS	A) INSPECT INSIDE AND OUT FOR DIRT, DUST, INSECTS, ETC. B) CLEAN EXTERIOR C) CLEAN INTERIOR D) INSPECT ADHESIVE BOND. SHOULD BE INTACT ALL AROUND CIRCUMFERENCE	A) PREFLIGHT B) DAILY C) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS	
		REFLECTOR	OPTICAL SURFACE	A) INSPECT FOR DIRT, DUST, INSECTS THAT MAY LIMIT LIGHT OUTPUT B) CLEAN SURFACE AND REPLACE IF LIGHT OUTPUT IS REDUCED OR SURFACE IS VISIBLY A DAMAGED	A) DAILY B) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS
	FRONT SPIDER	ASSEMBLY	A) INSPECT FOR DAMAGE OR OTHER ANOMALIES. REPLACE IF REQUIRED	A) DAILY	
		JACK SCREWS	A) INSPECT FOR DAMAGE OR OTHER ANOMALIES. REPLACE IF REQUIRED	A) DAILY	
	LAMP	BULB	A) INSPECT FOR DAMAGE OR OTHER ANOMALIES B) FUNCTIONAL TEST. REPLACE IF DAMAGED, STROBES, OR DOES NOT LIGHT	A) DAILY B) DAILY OR 3 MONTHS IF NOT USED OFTEN	
	WING PLATES	SET SCREWS	A) TIGHTEN TO MINIMIZE GAP BETWEEN SEARCHLIGHT AND GIMBAL	A) 12 MONTHS OR 600 FLT HRS OR 250 OPN HRS	
		PIVOT BOLTS	A) CHECK FOR TIGHTNESS	A) 12 MONTHS OR 600 FLT HRS OR 250 OPN HRS	
	HOUSING	SCREWS	A) INSPECT TO ENSURE ALL FASTENED PROPERLY	A) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS	
		COVER	A) CLEAN AS NEEDED	A) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS	
	ELECTRICAL	CABLES	A) INSPECT FOR CRACKED, FRAYED OR CHAFED INSULATION	A) DAILY	
		CONNECTOR	A) INSPECT FOR DAMAGE OR CORROSION B) FUNCTIONAL TEST	A) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS B) DAILY	
	FOCUS	IFCO (IR ONLY)	CABLE	A) INSPECT FOR CRACKED, FRAYED OR CHAFED INSULATION	A) PREFLIGHT
		IR HOOD MOTOR	A) FUNCTIONAL TEST	A) PREFLIGHT	
		LIGHT LEAKS (IR ONLY)	A) INSPECT FOR LIGHT LEAKING FROM GASKET IN THE CLOSED POSITION AND MAKE ADJUSTMENTS IF NECESSARY	A) DAILY	
	GIMBAL		DOVETAIL (IF USED)	A) TIGHT FASTENERS, ANY SIGNS OF CRACKS OR FATIGUE, SAFETY LOCK WIRE INSTALLED	A) PREFLIGHT
			SAFETY LOCKING WIRE	A) INSPECT FOR CONDITION AND INSTALLED PROPERLY	A) PREFLIGHT
			CONNECTORS	A) INSPECT FOR FASTENERS TIGHT, FREE OF CORROSION OR DAMAGE	A) PREFLIGHT
			SHROUD EDGING	A) INSPECT BOND TO SHROUD COVER B) LUBRICATE BETWEEN EDGING AND GIMBAL FRAME	A) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS B) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS
SAFETY CABLES			A) INSPECT FOR CONDITION AND FASTENED TO GIMBAL FRAME	A) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS	
GEARS			A) INSPECT FOR CORROSION. LISTEN TO VERIFY GEARS RUN SMOOTH B) LUBRICATE GEARBOX	A) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS B) 6 MONTHS OR 300 FLT HRS OR 100 OPN HRS	
CHASSIS/FRAME			A) INSPECT FOR DAMAGE OR CORROSION	A) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS	
MOTORS			A) FUNCTIONAL TEST	A) DAILY	
CABLING	EXTERNAL	POWER	A) INSULATION, POTTING, CONNECTORS, WIRE DRESS, CHAFING	A) PREFLIGHT	
		COMMUNICATION	A) INSULATION, POTTING, CONNECTORS, WIRE DRESS, CHAFING	A) PREFLIGHT	
	INTERNAL	CONTROL UNIT/PENDANT	A) INSULATION, STRAIN RELIEFS, GENERAL CONDITION	A) 6 MONTHS OR 300 FLT HRS OR 100 OPN HRS	
		BULKHEAD CONNECTOR	A) GENERAL CONDITION, CORROSION, DAMAGE.	A) 6 MONTHS OR 300 FLT HRS OR 100 OPN HRS	
COMPONENTS	CONTROL UNIT	FACEPLATE, SWITCHES	A) BACKLIGHTING (IF APPLICABLE), SWITCH CONDITION, FACEPLATE	A) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS	
	JUNCTION BOX	FAN (IF APPLICABLE)	VERIFY FAN IS RUNNING SMOOTHLY WITHOUT OBSTRUCTIONS CLEANLINESS, CONNECTIONS & FASTENERS	A) 3 MONTHS OR 100 FLT HRS OR 50 OPN HRS B) 6 MONTHS OR 300 FLT HRS OR 100 OPN HRS	

NOTE: SCHEDULED MAINTENANCE IS TO BE USED AS A RECOMMENDED GUIDELINE AND SHOULD BE ADJUSTED BASED ON ENVIRONMENT AND USE

SEE OPERATIONS MANUAL (033566) OR MAINTENANCE MANUAL (033566-1) FOR INSPECTIONS AND MAINTENANCE PROCEDURES

CONTACT SPECTROLAB CUSTOMER SERVICE DEPARTMENT WITH ANY QUESTIONS
TOLL FREE (800) 936-4888