Navion Model A & B Inspection Sheet - rev 02 Copyright 2002 - Jan Zumwalt

Date	Mechanic	N Num
A/C Make	A/C Ser	A/C TIS
Eng Make	Eng Ser	Eng TIS
Prop Make	Prop Ser	Prop TIS
Aux Eqp	Aux Ser	Aux TIS
Aux Eqp	Aux Ser	Aux TIS
Inspection 50 100 500 1000 1	runnup to operating temper indications ght i.e. heater, fresh air or established in the second secon	rease) nd out #4 #5 #6 opp man, wt&bal, equip list
Inspection 50 100 500 1000 1	cowl upinner propeller airframe leaks or stain ion or replace spark plu interior cylinder walls stack, muffler, heat shr cover, push rod cover, ex baffle cracks or loosene count/fuselage fittings 1 tank and cooler, check oil cap, dipstic sure gauge line and cool sen drain valve or plug er/screen, drain valve 1 cooler	ns ugs aroud & linkage ext cyl, crankcase ess ck ck cler lines
Inspection 50 100 500 1000	ENGINE ELECTRICAL GRO	OUP
1 [] [x] [] [] Applicab 2 [x] [x] [] [] Magnetos 3 [x] [x] [] [] Vacuum p 4 [x] [x] [] [] Electric 5 [x] [x] [] [] Test bat 6 [x] [x] [] [] Ignition 7 [] [x] [] [] Alternat 8 [] [x] [] [] Starter 9 [] [x] [] [] Voltage 10 [] [] [] [X] [] Ignition	n, wiring pump, lines cal wiring, ground strap, tery, wiring, solenoid harness or/generator brushes, dr brushes, clutch, solenoi regulator, wiring	rive coupling, wiring id, wiring
Notes:		

Inspection	on CARBURATOR GROUP	Notes:
50 100 500	1000	
1 [] [x] []	[] Applicable AD's and 337's	
2 [] [x] []	[] Remove spinner, prop, and upper cowl half	
3 [x] [x] []	[] Clean air intake	
4 [x] [x] []	[] Intake tubes, gaskets, valves & doors	
5 [x] [x] []	[] Throttle linkage	
	[] Mixture linkage	
	[] Check condition of fuel hoses and fittings	
	[] Lubricate carburetor controls	
9 [] [x] []	[] Drain carb, inspect inlet filter	
	[] Check air straitener in carburetor throat	
	[] Replace air intake	
11 : ; :::; : ;	[] Replace all incare	
Inspection	on FUEL GROUP	
50 100 500		
	[] Applicable AD's and 337's	
	[] Fuel tank caps, filler neck, vents, drains	
	[] Fuel tank, accumulator, placards	
	[] Lines, fittings	
	[] Fuel filter, strainer	
	[] Fuel pump(s), wiring	
	[] Fuel selector, valve, linkage	
7 [v] [v] []	[] Engine primer	
	[] Drain tank and check interior	
9 [] [] [X]	[] Drain tank and theth interior	
Ingposti	on HVDDAHLTG CDOUD	
Inspection		
	[] Applicable AD's and 337's	
	[] Reservoir tank, cap, neck, dip stick	
	[] Selector, valve, linkage	
4 [X] [X] []	[] Hydraulic pump, wiring, lines, hoses	
5 [X] [X] []	[] Hydraulic reservoir, lines, hoses	
	[] Emergency shutoff	
	[] Hydraulic light	
8 [] [] [x]	[] Flush hydraulic lines, replace filter	
*** *** * * * * * * * * * * * * * * *	CIRTY MEGUINICI, CROWN	
Inspection		
50 100 500		
	[] Applicable AD's and 337's	
	[] Engine controls, linkage	
	[] Instrument panel fasteners, markings, placards	
	[] Instrument fasteners, markings, placards	
	[] Seat/shoulder belts, cargo nets, restraints	
	[] Seat, stops, glides, rails	
	[] Doors, windows, latches, locks, linkage	
	[] Baggage compartment	
	[] Control column assembly, linkage, lock	
	[] Elevator trim assembly, linkage	
	[] Rudder peddle assembly, linkage	
	[] Hydraulic control, lines	
	[] Pitot & static/alternate operation	
	[] Carb heat/alternate air operation	
	[] Environment control assembly, linkage	
	[] Below cabin floor lines, hoses, controls	
17 [x] [x] []		
	[] Inspect gyro hose and fittings	
19 [] [x] []		
	[] Upholstery, trim, fasteners	
21 [] [] [x]	[] Replace gyro filter	
*** *** * * * * * * * * * * * * * * *	CLDTV TITCHDIGIT CDCVD	
Inspection		
50 100 500		
	[] Applicable AD's and 337's	
	[] Lights, landing, navigation, cabin, instrument	
	[] Switches, fuses, wiring	
	[] Radio (com), antenna, cables, operation	
	[] Radio (nav), antenna, cables, operation	
	[] Intercom, operation	
/ [X] [X] [[] ELT, operation	
Notes.		
Notes:		

Inspection NOSE GEAR GROUP	Notes:
50 100 500 1000	
1 [] [x] [] Applicable AD's and 337's	
2 [x] [x] [] Retraction links	
3 [x] [x] [] [] Trunion bearing and pin for wear, and play	
4 [x] [x] [] [] Hydraulic lines hoses	
5 [x] [x] [] [] Gear cylinders and end mounts	
6 [x] [x] [] [] Limit switches and lube	
7 [x] [x] [] [] Gear doors, fairing, mechanism	
8 [x] [x] [] [] Gear extension pads.	
9 [x] [x] [] [] Shimmy dampener	
10 [x] [x] [] [] Nutcracker, steering link, collar, play, torque tube	
11 [x] [x] [] [] Steering torque tube to rudder bar roller clearance 12 [x] [x] [] [] Lower link to strut attach bolt for deformity	
13 [x] [x] [] Hydraulic cylinder mount for sheared rivets	
14 [x] [x] [] Grease & check wheel bearings	
15 [x] [x] [] Tires, condition, air press	
16 [] [x] [] [] Retraction check	
a Check latch freeness when gear is pumped into up position	
b Then release hydraulic pwr and check latch clearance & hooking	
c Cycle gear & check normal gear extension	
d Emergency gear extension	
e Wheel up brake	
f Door clearance, fit	
g Gear horn operation	
h Gear light	
17 [] [x] [] Wheel balance	
18 [] [x] [] [] Service strut, check extensions	
19 [] [] [x] Replace tire	
Inspection MAIN GEAR GROUP	
50 100 500 1000	
<pre>1 [] [x] [] [] Applicable AD's and 337's 2 [x] [x] [] [] Retraction links</pre>	
3 [x] [x] [] [] Trunion bearing and pin for wear, and play	
4[x][x][] [] Hydraulic lines hoses	
5 [x] [x] [] [] Gear cylinders and end mounts	
6 [x] [x] [] [] Limit switches and lube	
7[x][x][] [] Gear door, fairing, mechanism	
8[x][x][] [] Gear extension pads.	
9 [x] [x] [] [] Nutcrackers	
10 [x] [x] [] [] Retraction check	
a Check latch freeness when gear is pumped into up position	
b Then release hydraulic pwr and check latch clearance & hooking	
c Cycle gear & check normal gear extension	
d Check emergency gear extension	
f Check doors clearance and fit	
h Check gear lights	
11 [x] [x] [] Brake fluid, lines, hoses, bladders	
12 [x] [x] [] [] Check brake blocks, clips	
13 [x] [x] [] [] Parking brake, lines 14 [x] [x] [] [] Toe brake, lines	
15 [x] [x] [] [] Tires, condition, air press	
16 [] [x] [] Wheel balance	
17 [] [x] [] Grease & check wheel bearings	
18 [] [x] [] Service struts, check extensions	
19 [][x][]Replace brake pads	
20 [] [] [x] Replace tires	
Inspection WING GROUP	
50 100 500 1000	
1 [] [x] [] [] Applicable AD's and 337's	
2[x][x][] [] Damage, loose rivets, panels, screws 3[x][x][] [] Wing attachment fittings & bolts	
4 [x] [x] [] [] Flap hinges, bearings, bell crank, bolts, and play	
5 [x] [x] [] [] Flap hydraulic cylinder and torque tube	
6 [x] [x] [] [] Aileron hinges, bushings, and bolts	
7 [x] [x] [] Aileron cables, turnbuckles, bell cranks, & pulleys	
8 [] [x] [] [] Control cable tensions, lubricate as required	
Notes:	

	Inspectio		TAIL GROUP	Notes:
	50 100 500			
		-	pplicable AD's and 337's	
	[x] [x] []			
3	[x] [x] []	[] Ho	orizontal and vertical attach points	
4	[x] [x] []	[] E.	levators, hinges, bushings, and bolts	
			levator cbls, turnbuckles, bell cranks, & pulleys	
			udder hinges, bushings, and bolts	
7	[x] [x] []	[] R1	udder cables, turnbuckles, bell cranks, & pulleys	
			rim tab hinges, bushings, and bolts	
			rim tab torque rod and bell crank	
10	[] [x] []	[] Ca	able tensions and lubricate as required	
	Inspectio		FUSELAGE GROUP	
	50 100 500	1000		
			pplicable AD's and 337's	
2	[x] [x] []	[] Da	amage	
3	[x] [x] []	[] Ta	ail skid & bulkhead for damage	
4	[] [x] []	[] a	ttach front and upper cowl	
5	[] [x] []	[] S	ta. 170 bulkhead (or cracks & A.D. note compliance	
	Inspectio	n	PROPELLER GROUP	
	50 100 500	1000		
1	[] [x] []	[] A _]	pplicable AD's and 337's	
2	[x] [x] []	[] P	itch change blocks for wear and condition	
			ub for cracks and grease leaks	
			itch block pins	
			ack plate travel and operation	
			rop bladder for oil leaks	
			lades, remove nicks	
			e-attach propeller	
9	[x] [x] []	[] D-	roper fit, play, or leaks	
			rop control shaft and linkage	
			eplace spinner	
	[] [x] []			
		. ,	0,1400 0011	
	Inspectio	n	RETURN TO SERVICE	
	50 100 500			
1	[][x][]	[] C	omplete wash/clean inside & outside	
			omplete wash/clean inside & outside	
2	[x] [x] []	[] C	omplete walk around check.	
2 3	[x] [x] [] [x] [x] [x] [x] [x] [x] [x] [[] Co	omplete walk around check. un engine to operating temperature	
2 3 4	[x] [x] [] [x] [x] [x] [x] [x] [x] [x] [[] Co [] Ro [] En	omplete walk around check. un engine to operating temperature ngine/prop/flight instruments, and controls	
2 3 4 5	[x] [x] [] [x] [x] [] [x] [x] []	[] Co [] Ri [] Ei	omplete walk around check. un engine to operating temperature ngine/prop/flight instruments, and controls hut engine down	
2 3 4 5 6	[x] [x] [] [x] [x] [] [x] [x] [] [x] [x] []	[] Co [] Ri [] Ei [] Si [] Ei	omplete walk around check. un engine to operating temperature ngine/prop/flight instruments, and controls hut engine down ngine and airframe leaks or stains	
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