

A/C N# 467AE
A/C SN 52458

Preflight IAW Current Approved Flight Manual			
Operational Check	DESCRIPTION	NOTES	✓ If OK
Battery	Connect Battery and note voltage	25.4	✓
Fuel sump	Check fuel sump drain button operation and fuel clear and bright		✓
Airframe fuel filter	Check operation of fuel valve		✓
	Check fuel boost lights extinguish		✓
Fuel Filter test button	Insure caution light illuminates		✓
Low fuel switch	Check during run-up Checks		N/A
Landing lights	Check operation and angle of both lights		✓
Night Scanner	Check operation in all directions and stow		✓
Tail Rotor Illum Lt	Check operation		✓
Anti-coll Lts	Check operation		✓
Position Lts	Check operation		✓
Baggage door Lt	Check operation		✓
Litter door Lt	Check operation		✓
Preflight completed	Note any discrepancies		✓

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Perform the following using the Operational Check flight Guide			
Interior and Pre-start Check			
Operational Check	DESCRIPTION	NOTES	✓ If OK
Seats and seat belts	Check all seats and seat belts for condition and security		✓
Pedals	Check and note static friction set from 3-5 Lbs or (1360 g - 2260 g)		N/A
Throttle	Check freedom of travel and Idle stop marked with white tape and full open marked with red tape		✓
Instruments	Static at zero		✓
Free air Temp	Note Temp	26 c	✓
overhead circuit breakers	Check all circuit breakers for proper operation		✓
GPU	Connect GPU note voltage and insure GPU door LT illuminates if installed	28.1	✓
Engine out tone	Check tone and mute		✓
Caution LT Test	Check as follows:		✓
	Gen Fail - ON		✓
	Trans oil press - ON		✓
	Eng out - ON		✓
	Rotor Low RPM - ON		✓
	Press to test All Light Illuminate		✓
Dim Switch	Check operation		✓
TOT Lt	Test if installed		N/A
Fuel Press	Check and note press	13 psi	13 ✓

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Engine Starting			
Operational Check	DESCRIPTION	NOTES	V If OK
Engine Starting	Start engine IAW OCFG note the following:		✓
	Start Time	29sec	✓
	Peak TOT	810	✓
Record at idle			
N1	64 %		✓
N2	66 %		✓
TOT	506 %		✓
Torque	9.4 %		✓
Eng Oil Press	119 PSI		✓
Eng Oil Temp	60 °C		✓
Trans Oil Press	50 PSI		✓
Trans Oil Temp	40 °C		✓
Fuel Quantity	420 LBS		✓
Fuel Pressure	13 PSI		✓
OAT	26 °C		✓
Generator	Check load increase		✓
Preliminary Hydraulic System Check	Note any control movement or motoring with system off		✓
Flight Controls	Check freedom		✓
	Check minimum frictions: Cyclic 1lbs ± .5 LBS (4.4 ± 2.2 NT) Collective 4 lbs ± 1 lbs (18 ± 4.45 NT) Set frictions to full, note increased force to move controls with no binding		N/A

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Perform the following using the Operational Check flight Guide (cont.)			
Engine run-up			
Operational Check	DESCRIPTION	NOTES	✓ If OK
Throttle	Check Rotor Low RPM caution light extinguished at 90% NR		✓
	Throttle full open check that torque does not increase when NR is at 100% and throttle is checked		•
GOV RPM Switch	Check range L1\L3 97% to 100% (L4 99% - 101%) note Minimum and Maximum set to 100%	99-101	✓
ELT	Check operation		N/A
ENG Anti-Icing Switch	Check operation		✓
Particle Separator Purge	Check if installed		N/A
hydraulic Systems switch	Check that system pressure is removed		✓
hydraulic Systems Circuit breaker	Check system pressure is restored when pulled		✓
Pitot Heat	Check load increase		✓
Heater	Check increase in TOT		✓
Defrost	Check increase in TOT		✓
Record at 100%			
N1	79 %		✓
N2	101 %		✓
TOT	548 %		✓
Torque	22.8 %		✓
Eng Oil Press	120 PSI		✓
Eng Oil Temp	65 °C		✓
Trans Oil Press	55 PSI		✓
Trans Oil Temp	55 °C		✓
Fuel Quantity	400 LBS		✓
Fuel Pressure	13 PSI		✓
OAT	26 °C		✓
Set altimeter to pressure Altitude	29.92 note pressure altitude	1050	✓

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Before Takeoff Checks			
Operational Check	DESCRIPTION	NOTES	v If OK
Throttle response	Check engine response		✓
ENG, TRANS Instr	Check in limits		✓
Fuel Qty	Check forward fuel cell quantity and note both forward and total	FWD 165	✓
Garmin 396	Check weather initialized		
TFM 500	Perform radio check with ops		
COM 2	Tune AWOS 123.85		N
COM 1	Tune 122.8		A
Garmin 430	Check Airport data and operation		
Radar altimeter	Test		
Hover Checks			
Operational Check	DESCRIPTION	NOTES	v If OK
Instruments	Check for proper indications		
Hover Torque required	Note hover power		
Hover Autorotation Check	Check		
Collective	Check droop and over speed		
	Check engine response		
	Torsional oscillations no more than 6-10		
cyclic	Check for displacement left or right		
	Forward, sideward and aft hover		
Pedals	360° turns to right and left		
OGE Hover	Check		
compass swing	Fill out swing data after compass swing insure compass card is inserted in slot		
Main Rotor Vibration Analysis			
Operational Check	DESCRIPTION	NOTES	v If OK
Main rotor Vibration	Note ACES info below:		
	Main Rotor RPM at 100%		
	Lateral IPS for Hover		
	Vertical IPS for Hover		
	Vertical IPS for 60 kts		
	Vertical IPS for 100 kts		
	Vertical IPS for Letdown		