



AIRCRAFT SPECIFICATION



2020 Bell 407GX Helicopter

General

Aircraft SN: 54918

YOM 2020 November

Registration: TBD

Aircraft Total Time: Approximately 5hr SNEW

California Aviation Services, Inc
6791 Airport Dr. STE A, Riverside, California 92504, USA
Leo Bell
1(951)354-5274



AIRCRAFT SPECIFICATION

Standard Equipment

1	28 Amph Battery
2	Doors-Jettisonable (Crew Only)
3	Dual Controls
4	Glass Cockpit-G1000 (Garmin) G1000NXi
5	High Skid Gear-w-Flight steps
6	LED Lighting (Interior/Exterior)
7	M/R Blades-High Vis
8	Rotor Break
9	Tail Rotor Camera
10	Wire Strike Protection System
11	Artex C406-NHM ELT -w- PGM Adaptor
12	Artex C406-NHM ELT Provisions
13	Door Openers – for Baggage Door (AA)
14	Door Openers – for Jettisonable Crew Doors (AA)
15	Door Openers – for Cabin Door (AA)
16	Pre-Flight Kit – 4 handles & 2 Maint Steps (AA)
17	Inlet Barrier Filter
18	Aft Cabin ICS – 5 place
20	Bleed Air Heater -w- Windshield & Chin Bubble Defrost (Air Comm)



AIRCRAFT SPECIFICATION

Optional Equipment

1	Cargo Hook Provisions Kit (P/N 206-706-341-111)
2	AAI Tailboom Mounts for Rad Alt Antenna
3	Expanded Avionics Shelf
4	Donaldson Inducer Vent Filter
5	Cockpit/Cabin Floor Protector Kit (AA)





AIRCRAFT SPECIFICATION



California Aviation Services, Inc
6791 Airport Dr. STE A, Riverside, California 92504, USA
Leo Bell
1(951)354-5274



AIRCRAFT SPECIFICATION



Actual Weight and Balance Record - Model 407GX1

Date: 06-Nov-20

Serial N^o: 54918

Place Weighed: Bell Textron Canada Ltd.
Mirabel,
Quebec, Canada

Date Weighed: 05-Nov-20

The aircraft was weighed with the fluid systems in the condition described:

Fuel System:	Drained	(Undrainable Fuel 4.7 lb. @ FS 110.6)
Engine Oil System:	Full	(Undrainable Oil 1.6 lb. @ FS 192.0)
Transmission Oil System:	Full	
Hydraulic System:	Full	
Ballast Installed:	0lb.	

Appendix A lists any Kits, STC or Customizing installed.

[Units = pounds (lb.), inches (in.), US gallons (gal.)]

Item Description	Weight	Centre of Gravity	
		Long.	Lateral
Empty Weight <small>(includes unusable fuel & undrainable oil)</small>	2871.7	131.7	0.2

Data prepared by: Jean-Marc Flamand
Weight & Balance Specialist

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

Approved by: S. Beaupre

Quality Assurance
MOT CO-APPR
1-86



AIRCRAFT SPECIFICATION



Actual Weight and Balance Record - Model 407GX1

Date: 06-Nov-20

Serial N#: 54918

Weighing Results

[Units = pounds (lb.), inches (in.), US gallons (gal.)]

Cell Location	Reading	Tare	Net Tare
Fwd Jackpoint LH [FS 55.16, BL -16.82]	704.0	0.0	704.0
Fwd Jackpoint RH [FS 55.16, BL +16.82]	750.0	0.0	750.0
Aft Jackpoint [FS 204.92, BL 0.0]	1464.0	0.0	1464.0
Total	2918.0	0.0	2918.0

Empty Weight Derivation

Item Description	Weight	Centre of Gravity and Moments			
		Longitudinal		Lateral	
		Arm	Moment	Arm	Moment
Aircraft Empty Weight	2918.0	130.3	380206	0.3	774
Delete: Plumb Bob	-0.3	170.1	-51	-8.4	3
Drainable Engine Oil	-13.0	205.0	-2665	0.0	0
Ballast - Landing Light Bay	-48.0	15.6	-749	1.0	-48
Add: Residual Fuel	13.3	116.0	1543	0.0	0
Flight Manual	1.7	37.0	63	-24.0	-41
Empty Weight	2871.7	131.7	378346	0.2	687



AIRCRAFT SPECIFICATION



Actual Weight and Balance Record - Model 407GX1

Date: 06-Nov-20

Serial N°: 54918

Centre of Gravity Extremes

Most Forward CG

Item Description	Weight	Centre of Gravity and Moments			
		Longitudinal		Lateral	
		Arm	Moment	Arm	Moment
Empty Weight (page2)	2871.7	131.7	378346	0.2	687
+ Pilot	170.0	65.0	11050	14.0	2380
+ Passenger (1), Fwd	170.0	65.0	11050	11.0	1870
+ Passengers (2), Mid	340.0	91.0	30940	0.0	0
+ Engine Oil	13.0	205.0	2665	0.0	0
+ Most Fwd Fuel (JP5) 74.8 US gal.	508.6	116.0	59002	0.0	0
Total	4073.3	121.0	493054	0.3	1197

Most Aft CG

Item Description	Weight	Centre of Gravity and Moments			
		Longitudinal		Lateral	
		Arm	Moment	Arm	Moment
Empty Weight (page 2)	2871.7	131.7	378346	0.2	687
+ Pilot	170.0	65.0	11050	14.0	2380
+ Passengers (3), Aft	510.0	129.0	65790	0.0	0
+ Engine Oil	13.0	205.0	2665	0.0	0
+ Fuel (JP5) 28.4 US gal.	193.1	137.0	26457	0.0	0
Total	3757.8	128.9	484309	0.8	3067



AIRCRAFT SPECIFICATION



Actual Weight and Balance Record - Model 407GX1

Date: 06-Nov-20

Serial N#: 54918

Equipment List

Part Number	Item Description	Weight	Long. Arm	Lateral Arm
22. Auto Flight; 23. Communication; 31. Instruments; 34. Navigation:				
206-070-263-105	Altimeter	1.0	36.1	4.9
206-075-725-111	Airspeed	0.8	36.9	1.5
C-2300-L4-24-B-LED	Standby Compass	0.6	48.8	22.9
011-03470-90	Display Unit GDU 1050H	4.5	39.1	10.5
011-03470-90	Display Unit GDU 1050H	4.5	39.1	-1.7
011-03682-03	Engine Signal Processor GEA 718H	1.8	33.8	11.0
011-03094-20	ADAHRS Unit GSU 75H	1.7	33.6	-3.6
011-00978-00	Oat probe GTP 59	0.3	26.0	-15.0
011-00870-10	Magnetometer MGU-44	0.4	240.0	0.0
011-03711-20	Integrated Avionics GIA 64H	5.4	33.8	1.0
CI 2580-200	Com/GPS Antenna	0.6	57.8	4.9
DMH69-1	Diplexer	0.3	22.1	-4.4
011-02385-50	Audio Panel Pilot GMA 350HC	1.5	40.2	1.0
011-03711-20	Integrated Avionics GIA 64H	5.4	33.8	8.0
CI 122	Com Antenna	0.4	64.6	-10.6
013-00244-00	GPS Antenna	0.5	84.3	0.0
011-03301-00	Transponder GTX-335R	1.7	33.8	-4.0
071-00221-0010	Transponder Antenna	0.3	64.6	7.5
453-5061	ELT C406-1HM	4.5	199.0	0.0
110-338	E.L.T. Antenna	0.5	214.0	0.0
345-6195-04	Remote ELT Switch	0.2	39.1	6.5
130-4004	ELT Buzzer	0.3	198.0	8.0
453-5068	ELT Programming Adapter	0.2	190.0	0.0
407-706-029-105	Aft Avionic Shelf	4.0	160.5	-1.0
24. Electrical:				
206-062-200-113	Starter / Generator	20.9	165.8	6.5
206-075-447-101	Regulator	2.0	161.0	-20.6
7407-28	Battery	66.0	15.8	1.0



AIRCRAFT SPECIFICATION



Actual Weight and Balance Record - Model 407GX1

Date: 06-Nov-20

Serial Nº: 54918

Equipment List

Part Number	Item Description	Weight	Long. Arm	Lateral Arm
25. Interior:				
222-320-823-130	Pilot Restraint	2.2	70.0	12.0
222-320-823-129	Forward Passenger Restraint	2.2	70.0	-12.0
407-370-721-105	Mid Passenger LH Restraint	1.6	87.0	-15.0
407-370-721-105	Mid Passenger RH Restraint	1.6	87.0	15.0
407-370-720-101	Aft Passenger LH Restraint	1.9	138.0	-17.0
407-370-721-103	Aft Passenger Centre Restraint	1.5	138.0	0.0
407-370-720-101	Aft Passenger RH Restraint	1.9	138.0	17.0
32. Gear:				
407-724-101	Fwd Cross-Tube	17.8	72.2	0.0
407-725-106	Aft Cross-Tube	27.7	154.0	0.0
407-011-201	Skid Tube L/H	22.1	108.9	-46.8
407-011-202	Skid Tube R/H	22.1	108.9	46.8
407-326-003	FliteSteps	29.0	113.5	0.0
407-705-006-101	Egress Tool	0.0	81.3	-0.1
33. Lights:				
01-0771080-11	Anti-Collision Light	0.8	390.0	-10.0
2307055-1	Landing / Taxi Light (2)	1.7	14.0	1.0
01-0771105-11	Green Position Light RH (Fuselage)	0.3	63.3	17.0
01-0771105-12	Red Position Light LH (Fuselage)	0.3	63.3	-17.0
01-0771105-11	Green Position Light RH (Aux Fin)	0.3	306.0	40.0
01-0771105-12	Red Position Light LH (Aux Fin)	0.3	306.0	-40.0
01-0771011-01	Tail Light	0.2	400.0	0.0
721-1058-101	Map (Utility) Light	0.5	78.0	0.0
Misc Equipment:				
600W	Fire Extinguisher, Hand Type	1.6	75.0	0.0
BHT-407-FM-3	Flight Manual	1.7	37.0	-24.0
1431311-3	First Aid Kit	1.8	91.0	15.0
206-001-173-107	Collective Stick Assy (CoPilot)	1.7	63.4	-21.0
206-001-392-105	Cyclic Stick Assy (CoPilot)	1.5	52.1	-11.0
141P0007OEM	3060S Pulselite Control Unit	1.0	19.2	-7.5



AIRCRAFT SPECIFICATION

Date: 06-Nov-20



Serial N°: 54918

Appendix A to Weight and Balance dated 6-Nov-20

This section contains the [KIT LISTING](#) pertaining to your new aircraft.

Part Number	Description
206-706-341-131	Cargo Hook Provisions
	‡
206-706-502-119	Rotor Brake
407-705-006-101	Egress Tool
407-705-007-103	WSPS Provisions
407-705-007-105	WSPS Cutters - High Skid Gear
407-705-601-109	Interior - Standard
407-705-603-101	Soundproofing - Standard
407-705-604-109	Headliner
407-705-605-101	Armrests - Standard
407-705-701-119	Seats - Standard
407-706-004-105	28 AmpH Battery
407-706-007-105	High Skid Gear
407-706-011-115	Aux Tank Provisions
407-706-020-103	Max Gross Weight
407-706-029-105	Aft Avionic Shelf
407-706-032-101	Aft ICS-5 Station
407-706-059-105	ELT w PGM C406-N HM
407-706-059-107	ELT Prov
407-706-060-101	Tail Rotor Camera
407-706-301-103	Sliding Windows
--	--
407-706-702-115	Dual Controls



AIRCRAFT SPECIFICATION

Date: 06-Nov-20



Serial N^o: 54918

Appendix A to Weight and Balance dated 6-Nov-20

This section contains the STC LISTING pertaining to your new aircraft.

Part Number	Description	FAA STC	TC STC
106000-107	Engine Inlet Barrier Filter System (12.2 lb at FS 139.9, BL -0.2)	SR09368RC	SH04-34
106250-101	Bell 407 Inducer Vent Filter Kit (AAI) (2.8 lb at FS 153.1, BL 8.0)	SR09368RC	SH04-34
141P0007OEM	30605 Pulselite Control Unit (1 lb at FS 19.2, BL 0)	SA00560SE	SH99-211
206-510-214	Baggage Door Opener (1 lb at FS 155, BL -21.8)	SH1990SO	SH 96-56
407-016-005	Tailboom Antenna Mount (1.2 lb at BS 68.7/90.7, BL 0)	SR02162LA	SH13-2
407-326-003	FliteSteps (29 lb at FS 113.5, BL 0)	SH1322SO	SH96-55
407-450-001	Floor Protector Kit (8.3 lb at FS 72.4, BL 0)	SH3289SO	SH 96-54
407-512-101	LH Passenger Door Opener (1.4 lb at FS 103.9, BL -25)	SH1990SO	SH 96-56
407-512-102	RH Passenger Door Opener (1.4 lb at FS 103.9, BL 25)	SH1990SO	SH 96-56
407-530-002 & 407-531-002	Pre-Flight Step/Handle Kit		
407-530-002 (206-468-108)	Baggage Door Retention Strap (0 lb)	SH2243SO	SH96-51
407-530-002 (407-531-002)	Step Handle RH (0.8 lb at FS 108.9, BL 18.5)	SH1366SO	SH96-53
407-530-002 (407-531-002)	Step Handle LH (0.8 lb at FS 108.9, BL -18.5)	SH1366SO	SH96-53
407-530-002 (407-531-002)	Step Handle RH (0.8 lb at FS 137.9, BL 18.5)	SH1366SO	SH96-53
407-530-002 (407-531-002)	Step Handle LH (0.8 lb at FS 137.9, BL -18.5)	SH1366SO	SH96-53
407-530-002 (407-536-101)	Folding Maintenance Step LH (2 lb at FS 145.2, BL -28)	SH2243SO	SH96-51
407-530-002 (407-536-102)	Folding Maintenance Step RH (2 lb at FS 145.2, BL 28)	SH2243SO	SH96-51
407-592-003	Door Opener Kit, L/H (1.4 lb at FS 43.6, BL -25.5)	SH1990SO	SH 96-56
407-592-004	Door Opener Kit, R/H (1.4 lb at FS 43.6, BL 25.5)	SH1990SO	SH 96-56
407H-201-2	Cabin Heater (18.2 lb at FS 80.1, BL 6.6)	SR00221DE	SH 96-64
407H-500-1	Engine Compartment Bleed Air System (3.8 lb at FS 153, BL 0)	SR00220DE	SH 96-63
407H-988-1	Chin Bubble Defog (0.6 lb at FS 22, BL 0.2)	SR00221DE	SH 96-64
Various P/N	Windows (0 lb)	SR01051AT	SH96-93

List of Kits / Customizing / STC's pertaining to your new aircraft

Page 2 of 2

California Aviation Services, Inc
6791 Airport Dr. STE A, Riverside, California 92504, USA
Leo Bell
1(951)354-5274