MOODY AVIATION Municipal Airport Elizabethton, TN 37643

#### WEIGHT AND BALANCE

Aircraft N: 6461Z	Model: <u>C-TU206G</u>	SN: _U	20606282	
Current Date: <u>11-08-00</u>	Supersedes Weight a	and Balance Dated:	8-25-98	
Licensed Empty Weight Includes: Unusable fuel and undrainable oil Includes: Unusable fuel and tuli o				
Certified Takeoff Gross Weight	Certified Taked	off Gross Weight	3600.0	
New Licensed Empty Weight	New Basic Emp	ty Weight	2403.00	
New Useful Load	New Useful Loa	d	1197.00	
New Licensed Empty Weight CG	New Basic Emp	ty Weight CG	37.68	
ITEM	WEIGHT	ARM	MOMENT	
Previous Weight as of 8-25-98	2404.30	37.67	90590.80	
Removed				
Fire Extinguisher M/N GH-2 1\2 J	-5.00	29.00	-145.00	
nstalled				
ire Extinguisher M/N RT-A1200	3.70	29.00	107.30	
S. Y	NEW EMPTY WEIGHT	NEW EMPTY WEIGHT	MOMENT TOTAL	
A Sur ,	2403.00	37.68	90553.10	
Sulperson (0)	INSPECTOR:	th Eucast additional sheets are a	ttached.	

# A CUPY OF THE WEIGHT & BALANC CESSNA AIRCRAFT COMPANY AIRWORTHINESS CERTIFICATION IT WICHITA, KANSAS WICHITA, KANSAS HAVE GEEN MADE SUBSEQUENT TO ISSUANCE AIRWORTHINESS CERTIFICATE. Weight & Balance and Installed Equipment Data CERCENTA AIRCRAFT CONTAINS

MEFLECT EQUIPMENT CHANGES WHICH

CESSNA AIRCRAFT COMPANY

CONTROL	DATE	MODEL	REGISTRATION NUMBER	CESSNA SERIAL NUMBER
123263	04/14/81	TURBO STATIONAIR 6 II WITH NAV-PAC	A6 46 1Z	U20606282

ICLUDING ALL REQUIRED AND STANDARD EQUIPMENT ITEMS USABLE FUEL 4.0 GALLONS ILL OIL 12.0 QUARTS  ANDARD EMPTY WEIGHT  TICNAL EQUIPMENT REPLACING OR IN ADDITION TO CUIRED AND STANDARD EQUIPMENT ITEMS -5816 NIGHT BLUE-MAJOR NEGL5817 JAY GRAY-ACCENT NEGL5818 ALL-OVER VESTAL WHITE NEGL. AT INSERTS HANOVER BLUE FABRIC NEGL. AT INSERTS HANOVER BLUE FABRIC NEGL. AT TRIM BLUE LEATHER AT BELE BLUE NEGL. AT TRIM BLUE LEATHER AT BELTS BLUE NEGL.  C AVIONICS KIT ONCE KT305A 720 CGM 200 NAY VORTICE REMOVED 9/10/90  J THANSPENDER RT459A HIGH ALTITUDE REMOVED 9/10/90 ROS, ATITUDE AND DIRECTIONAL REMOVED 10/17/89 EICATOR, TRUE AIRSPEED (EXCH) TECTORS, NAVIGATION LIGHTS IGHT CONTROLS, DUAL CUND SERVICE PLUG RECEPTACLE ATING SYSTEM, STALL WARNING & PITOT (EXCH.) GHTS, COURTESY CATOR BEACON M ANTENNA AND NAV COUPLER G NYC RT365A VORYLOG (2ND UNITH 9/10/90 REMOVED G CLIDESLOPE R443B 40 CM. INCL. VGR/ILS (EXCH.) 10/17/89 RETOVED G CLIDESLOPE R443B 40 CM. INCL. VGR/ILS (EXCH.) 10/17/89 RETOVED ON MARKER BEACON (R462A) 1/10/90 TERNATOR, 28-VORT (95 AMP) (EXCH.) TIERY, 24-VOLT, HEAVY DUTY (EXCH.) CCK, DIGITAL QUARTZ READOUT (EXCH.) GHT, ICE DETECTION, LH	24.0 22.5 016.0	35.5 48.J 19.4- 35.0	69911 1152 437 70632
USABLE FUEL 4.0 GALLONS LL OIL 12.0 QUARTS ANCARD EMPTY WEIGHT TICNAL EQUIPMENT REPLACING OR IN ADDITION TO QUIRED AND STANDARD EQUIPMENT ITEMS -581G NIGHT BLUE-MAJOR NEGL581T JAY GRAY-ACCENT NEGL581W ALL-OVER VESTAL WHITE NEGL. AT INSERTS HANOVER BLUE FABRIC NEGL. AT INSERTS HANOVER BLUE FABRIC NEGL. AT TRIM BLUE LEATHER AT BELTS BLUE NEGL. C AVIONICS KIT ONCE HISTORIMENT PANEL C AVIONICS KIT ONCE HISTORIMENT C AVIONICS	22.5	19.4-	437
LL DIL  12.0 QUARTS  ANDARD EMPTY WEIGHT  TICNAL EQUIPMENT REPLACING OR IN ADDITION TO  CUIRED AND STANDARD EQUIPMENT ITEMS  -581G NIGHT BLUE-MAJOR  -581I JAY GRAY-ACCENT  -581IW ALL-OVER VESTAL WHITE  REGL- RPET BLUE-MONACO  AT INSERTS HANOVER BLUE FABRIC  DEWALLS BLUE VINYL  ATT TRIM BLUE LEATHER  ATT BELTS BLUE  ACK UPPER INSTRUMENT PANEL  C AVIONICS KIT  3 N/C HT385A 72U GGM 20U NAV VOR/LOC REMOVED 9/11/90  3 TRANSPONDER RT459A HIGH ALTITUDE REMOVED 9/11/90  3 TRANSPONDER RT459A HIGH ALTITUDE REMOVED 10/17/89	22.5	19.4-	437
ANCARD EMPTY WEIGHT TICNAL EQUIPMENT REPLACING OR IN ADDITION TO QUIRED AND STANDARD EQUIPMENT ITEMS -581G NIGHT BLUE-MAJOR -581T JAY GRAY-ACCENT -581H ALL-OVER VESTAL WHITE RPET BLUE-MONACO AT INSERTS HANDVER BLUE FABRIC DEWALLS BLUE VINYL AT TRIM BLUE LEATHER AT BELTS BLUE  "CK UPPER INSTRUMENT PANEL C AVIGNICS KIT ON N/C RT385A 720 CGM 260 NAV VOR/LOC REMOVED 9/11/90 3 TRANSPONDER RT459A HIGH ALTITUDE REMOVED 9/11/90 GOS, ATTITUDE AND DIRECTIONAL REMOVED 10/17/89 ELICATOR, TRUE AIRSPEED (EXCH) MEGLICATOR, TRUE AIRSPEED (EXCH) MEGLICATOR, NAVIGATION LIGHTS NEGLICATOR, SYSTEM, STALL WARNING & PITOT (EXCH.) GHTS, COURTESY LATOR BEACON A ANTENNA AND NAV COUPLER NAC RT385A VOR/LOC (2NO UNITH 9/11/90 REMOVED HEALTS BLUE HING SYSTEM, STALL WARNING & PITOT (EXCH.) GHTS, COURTESY LATOR BEACON A ANTENNA AND NAV COUPLER NAC RT385A VOR/LOC (2NO UNITH 9/11/90 REMOVED) HEALTS BLUE HING SYSTEM, STALL WARNING & PITOT (EXCH.) HEALT BLUESLOPE R4438 40 CH. INCL. VOR/ILS (EXCH.) HEALT BLUE BLUESLOPE R4438 40 CH. INCL. VOR/ILS (EXCH.) HEALT BLUE BLUESLOPE R4438 40 CH. INCL. VOR/ILS (EXCH.) HEALT BLUE BLUESLOPE R4438 40 CH. INCL. VOR/ILS (EXCH.) HEALT BLUE BLUESLOPE R4438 40 CH. INCL. VOR/ILS (EXCH.) HEALT BLUE BLUESLOPE R4438 40 CH. INCL. VOR/ILS (EXCH.) HEALT BLUE BLUESLOPE R4438 40 CH. INCL. VOR/ILS (EXCH.) HEALT BLUE BLUE BLUE BLUE BLUESLOPE HEALT BLUE BLUE BRIED HEALT BLUE BREDCE HEALT BREDCE HEALT BLUE BREDCE HEALT	016.0		
TICNAL EQUIPMENT REPLACING OR IN ADDITION TO QUIRED AND STANDARD EQUIPMENT ITEMS  -581G NIGHT BLUE-MAJOR  NEGL-  581H ALL-OVER VESTAL WHITE NEGL-  RPET BLUE-MONACO  AT INSERTS HANOVER BLUE FABRIC  DEWALLS BLUE VINYL  AT TRIM BLUE LEATHER  AT BELTS BLUE  "CK UPPER INSTRUMENT PANEL  C AVIONICS KIT  O N/C KT3854 720 CGM 200 NAV VOR/LOC REMOVED 9/11/90  3 ADF W/810 R546E REMOVED 9/11/90  3 TRANSPENDER RT459A HIGH ALTITUDE REMOVED 9/11/90  RECATOR, ATTITUDE AND DIRECTIONAL REMOVED 10/17/89  ELCATOR, TRUE AIRSPEED (EXCH)  IECTORS, NAVIGATION LIGHTS  BLUE PLUG RECEPTACLE  ATING SYSTEM, STALL WARNING & PITOT (EXCH.)  SHTS, COURTESY  ATOM BEACON  A ANTENNA AND NAV COUPLER  N/C RT385A VOR/LOC (2ND UNITH 9/11/90 REMOVED  HARKER BEACON (R402A) 9/11/90  HARKER BEACON (R402A) 9/11/90  TENNATOR, 28-VOLT (95 AMP) (EXCH)  TICK, DIGITAL QUARTZ READOUT (EXCH)  TICK, DIGITAL QUARTZ READOUT (EXCH)  TICK, DIGITAL QUARTZ READOUT (EXCH)  TICLE SYSTEM, PROPELLER (ELECTRIC)  HIT, ICE DETECTION, LH		35.0	70 632
TICNAL EQUIPMENT REPLACING OR IN ADDITION TO QUIRED AND STANDARD EQUIPMENT ITEMS  -581G NIGHT BLUE-MAJOR  NEGL-  581H ALL-OVER VESTAL WHITE NEGL-  RPET BLUE-MONACO  AT INSERTS HANOVER BLUE FABRIC  DEWALLS BLUE VINYL  AT TRIM BLUE LEATHER  AT BELTS BLUE  "CK UPPER INSTRUMENT PANEL  C AVIONICS KIT  O N/C KT3854 720 CGM 200 NAV VOR/LOC REMOVED 9/11/90  3 ADF W/810 R546E REMOVED 9/11/90  3 TRANSPENDER RT459A HIGH ALTITUDE REMOVED 9/11/90  RECATOR, ATTITUDE AND DIRECTIONAL REMOVED 10/17/89  ELCATOR, TRUE AIRSPEED (EXCH)  IECTORS, NAVIGATION LIGHTS  BLUE PLUG RECEPTACLE  ATING SYSTEM, STALL WARNING & PITOT (EXCH.)  SHTS, COURTESY  ATOM BEACON  A ANTENNA AND NAV COUPLER  N/C RT385A VOR/LOC (2ND UNITH 9/11/90 REMOVED  HARKER BEACON (R402A) 9/11/90  HARKER BEACON (R402A) 9/11/90  TENNATOR, 28-VOLT (95 AMP) (EXCH)  TICK, DIGITAL QUARTZ READOUT (EXCH)  TICK, DIGITAL QUARTZ READOUT (EXCH)  TICK, DIGITAL QUARTZ READOUT (EXCH)  TICLE SYSTEM, PROPELLER (ELECTRIC)  HIT, ICE DETECTION, LH			
QUIRED AND STANDARD EQUIPMENT ITEMS  -581G NIGHT BLUE-MAJOR  -581T JAY GRAY-ACCENT  -581M ALL-OVER VESTAL WHITE  RPET BLUE-MONACO  AT INSERTS HANOVER BLUE FABRIC  DEWALLS BLUE VINYL  AT TRIM BLUE LEATHER  AT BELTS BLUE  C AVIONICS KIT  O NYC KT385A 720 CGM 200 NAV VOR/LOC REMOVED 9/1/90  THANSPENDER RT459A HIGH ALTITUDE REMOVED 9/1/90  THANSPENDER RT459A HIGH ALTITUDE REMOVED 9/1/99  ELCATOR, IRUE AIRSPEED (EXCH)  IECTORS, NAVIGATION LIGHTS  NEGL-  CUND SERVICE PLUG RECEPTACLE  AITING SYSTEM, STALL WARNING & PITOT (EXCH.)  GHTS, COURTESY  LATOR BEACON  A ANTENNA AND NAV COUPLER  - N/C RT385A VOR/LOC (2ND UNITH 9/1/90 REMOVED  - GLIDESLOPE R443B 40 CH. INCL. VOR/ILS (EXCH.) 10/1/89  - GLIDESLOPE R443B 40 CH. INCL. VOR/ILS (EXCH.) 10/1/89  - HARKER BEACON (R402A) 9/1/190  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TERNATOR, 28-VOLT, HEAVY DUTY (EXCH.)  - TERNATOR, 28-VOLT, HEAVY DUTY (EXCH.)  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TERNATOR, 28-VOLT, HEAVY DUTY (EXCH.)  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLIND - 1908 TO 30,900 FT. RANGE 9/1/90  - TITUDE ENCODERY BLI	1.5		
-581G NIGHT BLUE-MAJOR -581T JAY GRAY-ACCENT -581H ALL-OVER VESTAL WHITE RPET BLUE-MONACO AT INSERTS HANOVER BLUE FABRIC DEWALLS BLUE VINYL AT TRIM BLUE LEATHER AT BELTS BLUE  'CK UPPER INSTRUMENT PANEL C AVIGNICS KIT B N/C RT385A 720 CGM 200 NAV VOR/LOC REMOVED 9/1/90 BOS, ATTITUDE AND DIRECTIONAL REMOVED 9/1/90 BOS, ATTITUDE AND DIRECTIONAL REMOVED 10/17/89 ELCATOR, TRUE AIRSPEED (EXCH) IECTORS, NAVIGATION LIGHTS NEGL CUND SERVICE PLUG RECEPTACLE ATING SYSTEM, STALL WARNING & PITOT (EXCH.) BAYER BEACON A ANTENNA AND NAV COUPLER NYC RT385A VOR/LOC (2ND UNIT) 9/1/90 REMOVED HARKER BEACON (R402A) 9/1/90 PHARKER BEACON (R402A) 9/1	1.5		
-581T JAY GRAY-ACCENT -581M ALL-OVER VESTAL WHITE REPET BLUE-MONACO AT INSERTS HANOVER BLUE FABRIC DEWALLS BLUE VINYL AT TRIM BLUE LEATHER AT BELTS BLUE  **CK UPPER INSTRUMENT PANEL C AVIONICS KIT  **O NOT AT A STANDER REGISTRATE AND	1.5		
RPET BLUE-MONACO  REPET BLUE-MONACO  AT INSERTS HANOVER BLUE FABRIC  DEWALLS BLUE VINYL  AT TRIM BLUE LEATHER  AT BELTS BLUE  C AVIGNICS KIT  REPOVED 9/11/90  C TOMANSPENDER RT459A HIGH ALTITUDE REMOVED 10/17/99  C ALTOR AND AND MANUAL COUPLER  C AVIGNIC PLUG RECEPTACLE  C AVIGNIC	1.5		
RPET BLUE-MONACO  AT INSERTS HANDVER BLUE FABRIC  DEWALLS BLUE VINYL  AT TRIM BLUE LEATHER  AT BELTS BLUE  C AVIONICS KIT  O ADF WIDIO R546E— REMOVED 9/11/90  C ADF WIDIO R546E— REMOVED 9/11/90  C TRANSPENDER R7459A HIGH ALTITUDE REMOVED 9/11/90  CICATOR, TRUE AIRSPEED (EXCH)  ECTORS, NAVIGATION LIGHTS  BITH CONTROLS, DUAL  CHAINER, STALL WARNING & PITOT (EXCH.)  CHAINER, STALL WARNING & PITOT (EXCH.)  CHAINER, BEACON  A ANTENNA AND NAV COUPLER  NAVIENTA AND NAV COUPLER  NEGL.  NEGL.	1.5		
AT INSERTS HANDVER BLUE FABRIC  DEWALLS BLUE VINYL  AT TRIM BLUE LEATHER  AT BELTS BLUE  C AVIONICS KIT  C AVIONICS REMOVED 9/11/90  C ATTAMSPENDER RT459A HIGH ALTITUDE REMOVED 9/11/90  C TRANSPENDER RT459A HIGH ALTITUDE REMOVED 10/17/89  CICATOR, TRUE AIRSPEED (EXCH)  ECICATOR, TRUE AIRSPEED (EXCH)  ECICATOR, TRUE AIRSPEED (EXCH)  ECICATOR, NAVIGATION LIGHTS  NEGL.  CUND SERVICE PLUG RECEPTACLE  ATTING SYSTEM, STALL WARNING & PITOT (EXCH.)  CHIDES COURTESY  ATOR BEACON  ANTENNA AND NAV COUPLER  NAC RT385A VOR/LOC (2ND UNITH 9/11/90 REMOVED  C CLIDES COPE 84438 40 CH. INCL. VOR/ILS (EXCH.)  C C C COPE 84438 40 CH. INCL. VOR/ILS (EXCH.)  C C C C C C C C C C C C C C C C C C C	1.5	1	
DEWALLS BLUE VINYL  AT TRIM BLUE LEATHER  AT BELTS BLUE  "CK UPPER INSTRUMENT PANEL  C AVIGNICS KIT  3 N/C KT385A 720 CGM 200 NAV VOR/LOC REMOVED 9/11/90  3 ADF W/8FB R546E REMOVED 9/11/90  3 TRANSPENDER R7459A HIGH ALTITUDE REMOVED 9/11/90  ROS, ATTITUDE AND DIRECTIONAL REMOVED 10/17/99  ICCATOR, TRUE AIRSPEED (EXCH)  ICCATOR, NAVIGATION LIGHTS  ROBEL  CUND SERVICE PLUG RECEPTACLE  ATTING SYSTEM, STALL WARNING & PITOT (EXCH.)  CHTS, COURTESY  ATOR BEACON  ANTENNA AND NAV COUPLER  NAC R7385A VOR/LOC (2ND UNIT) 9/11/90 REMOVED  GLIDESLOPE 84438 40 CH. INCL. VOR/ILS (EXCH.) 10/17/89  HARKER BEACON (R402A) 9/11/90  ERNATOR, 28-VOLT (95 AMP) (EXCH.)  TERY, 24-VOLT, HEAVY DUTY (EXCH.)  I-ICE SYSTEM, PROPELLER (ELECTRIC)  HT, ICE DETECTION, LH	1.5		
AT TRIM BLUE LEATHER  AT BELTS BLUE  ACK UPPER INSTRUMENT PANEL  C AVIONICS KIT  AND NOTE HISBARY TO COM 200 NAV VORTLOC REMOVED 9/11/90  ADE WISBARY TO COM 200 NAV VORTLOC REMOVED 9/11/90  ADE WISBARY TO COM 200 NAV VORTLOC REMOVED 9/11/90  BADE WISBARY TO COM 200 NAV VORTLOC REMOVED 9/11/90  BADE WISBARY TO COM 200 NAV VORTLOC REMOVED 9/11/90  BOOK ANTITUDE AND DIRECTIONAL REMOVED 10/17/89  BICATOR, TRUE AIRSPEED (EXCH)  BECTORS, NAVIGATION LIGHTS  BICATOR, TRUE AIRSPEED (EXCH)  BECTORS, NAVIGATION LIGHTS  BOOK BOOK BOOK BOOK BOOK BOOK BOOK BOO	1.5	1	
NEGL.  ***CK UPPER INSTRUMENT PANEL  C AVIGNICS KIT  ***ONCE KT385A 720 CGM 200 NAV VOR/LOC Revieved 9/11/90  ***JANSPENDER RT459A HIGH ALTITUDE Revieved 9/11/90  ***ROS, ATTITUDE AND DIRECTIONAL REvieved 10/17/89  ***CICATOR, TRUE AIRSPEED (EXCH)  ***ICCATOR, TRUE AIRSPEED (EXCH)  ***ICCATORS, NAVIGATION LIGHTS  ***IGHT CONTROLS, DUAL  ***CUND SERVICE PLUG RECEPTACLE  ***ATING SYSTEM, SIALL WARNING & PITOT (EXCH.)  ***SHIS, COURTESY  ***LATOR BEACON  ***ANTENNA AND NAV COUPLER  ****N/C RT385A VOR/LOC (2ND UNITH 9/11/90 Revieved  ***ATING SYSTEM, PROPELLE (EXCH) INFINATION OF REVIEVED  ***HATCHNA AND NAV COUPLER  ****N/C RT385A VOR/LOC (2ND UNITH 9/11/90 Revieved  ***HATCHNA AND NAV COUPLER  ****SHIPPED (EXCH) INFINATION OF TO 30,000 FT. RANGE 9/11/90  ***HATCHNA EBACON (R402A) 9/11/90  ***HATCHNA EBACON (R402A) 9/11/90  ***HATCHNA EBACON (R402A) 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  *****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  ****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  *****ITUDE ENCODER, BLIND - 1000 TO 30,000 FT. RANGE 9/11/90  *****ITUDE ENCODE	1.00	73.3	110
C AVIONICS KIT  O N/C RT385A 720 CGM 200 NAV VOR/LOC REMOVED 9/11/90  O ADF W/818 R546E REMOVED 9/11/90  O TRANSPENDER RT459A HIGH ALTITUDE REMOVED 9/11/90  ROS, ATTITUDE AND DIRECTIONAL REMOVED 10/17/89  CICATOR, TRUE AIRSPED (EXCH)  IECTORS, NAVIGATION LIGHTS  IGHT CONTROLS, DUAL  CUND SERVICE PLUG RECEPTACLE  ATING SYSTEM, STALL WARNING & PITOT (EXCH.)  GHTS, COURTESY  ATOR BEACON  A ANTENNA AND NAV COUPLER  NAC RT385A VOR/LOC (2ND UNITH 9/11/90 REMOVED)  HARKER BEACON (R402A) 9/11/90  HARKER BEACON (R402A) 9/11/90  TERNATOR, 28-VOLT (95 AMP) (EXCH)  TERY, 24-VOLT, HEAVY DUTY (EXCH)  ICK, DIGITAL QUARTZ READOUT (EXCH)  HI, ICE DETECTION, LH		, , , ,	110
C AVIONICS KIT  3 N/C RT385A 720 CGM 200 NAV VOR/LOC REMOVED 9/11/90  3 ADF W/8FB R546E REMOVED 9/11/90  5 TRANSPENDER RT459A HIGH ALTITUDE REMOVED 9/11/90  ROS, ATTITUDE AND DIRECTIONAL REMOVED 10/17/89  CICATOR, TRUE AIRSPEED (EXCH)  FECTORS, NAVIGATION LIGHTS NEGL.  COUND SERVICE PLUG RECEPTACLE  ATING SYSTEM, STALL WARNING & PITOT (EXCH.)  SHIS, COURTESY  ATOR BEACON  M ANTENNA AND NAV COUPLER  N/C RT385A VOR/LOG (2ND UNIT) 9/11/90 REMOVED  HARKER BEACON (R402A) 9/11/90  FERNATOR, 28-VOLT (95 AMP) (EXCH)  TERY, 24-VOLT, HEAVY DUTY (EXCH)  TICE SYSTEM, PROPELLER (ELECTRIC)  HI, ICE DETECTION, LH			
ANC HT385A 720 CGM 200 NAV VOR/LOC REMOVED 9/11/90  ADF W/BFO R54GE REMOVED 9/11/90  TRANSPENDER RT459A HIGH ALTITUDE REMOVED 9/11/90  ROS, ATTITUDE AND DIRECTIONAL REMOVED 10/17/89  ELCATOR, TRUE AIRSPEED (EXCH)  TECTORS, NAVIGATION LIGHTS NEGL.  TOND SERVICE PLUG RECEPTACLE  ATING SYSTEM, STALL WARNING & PITOT (EXCH.)  HIS, COURTESY  ATOR BEACON  ANTENNA AND NAV COUPLER  N/C RT385A VOR/LOC (2ND UNIT) 9/11/90 REMOVED  HARKER BEACON (R402A) 9/11/90  THUDE ENCODERY BLIND -1300 TO 30,300 FT. RANGE 9/11/90  TERY, 24-VOLT, HEAVY DUTY (EXCH)  TERY, 24-VOLT, HEAVY DUTY (EXCH)  I-ICE SYSTEM, PROPELLER (ELECTRIC)  HI, ICE DETECTION, LH	8.2	53.8	492
ADF W/BIO R546E REMOVED 9/1/90  TRANSPONDER RT459A HIGH ALTITUDE REMOVED 9/1/90  ROS, ATTITUDE AND DIRECTIONAL REMOVED 10/17/89  ELCATOR, ECUNOMY MIXTURE REMOVED 7/10/95  CICATOR, TRUE AIRSPEED (EXCH)  TECTORS, NAVIGATION LIGHTS  REGIONAL CONTROLS, DUAL  CUND SERVICE PLUG RECEPTACLE  ATTING SYSTEM, STALL WARNING & PITOT (EXCH.)  GHTS, COURTESY  ATOR BEACON  A ANTENNA AND NAV COUPLER  TO N/C RT385A VOR/LOC (2ND UNIT) 9/11/90 REMOVED  TO SELIDESLOPE 84438 40 CH. INCL. VOR/ILS (EXCH.)  TO HARKER BEACON (R402A) 9/11/90  TERNATOR, 28-VOLT (95 AMP.) (EXCH.)  TERNATOR, 28-VOLT, HEAVY DUTY (EXCH.)  TO SELICITAL QUARTZ READOUT (EXCH.)  TICE SYSTEM, PROPELLER (ELECTRIC.)  HI, ICE DETECTION, LH	8.1	13.0	
ROS, ATTITUDE AND DIRECTIONAL REMOVED 10/17/89  RICATOR, TRUE AIRSPEED (EXCH)  RECTORS, NAVIGATION LIGHTS  RICHT CONTROLS, DUAL  RICHT SYSTEM, STALL WARNING & PITOT (EXCH.)  RATOR BEACON  RATOR AND NAV COUPLER  RATOR BEACON  RANTENNA AND NAV COUPLER  RANTENNA AND NAV COUPLER  RANTENNA AND NAV COUPLER  RANTERS BEACON (RADZA) 9/1/90 REMOVED  RETTUDE ENCODER, BLIND 1000 TO 30,000 FT. RANGE 9/1/90  RETTUDE ENCODER 9/1/90  RETUDE TO 1/90  RETUDE TO 1/90  RETUDE TO 1/90  RETUDE T			105
ROS, ATTITUDE AND DIRECTIONAL REMOVED 10/17/89  CICATER, ECUNEMY MIXTURE REMOVED 1/10/95  CICATER, TRUE AIRSPEED (EXCH)  ECCTORS, NAVIGATION LIGHTS  NEGL.  IGHT CONTROLS, DUAL  CUND SERVICE PLUG RECEPTACLE  ATING SYSTEM, STALL WARNING & PITOT (EXCH.)  CHIS, COURTESY  ATOR BEACON  ANTENNA AND NAV COUPLER  N/C RT385A VOR/LOG (2ND UNIT) 9/11/90 Removed  COLIDESLEPE 84438 40 CH. INCL. VOR/ILS (EXCH.)  HARKER BEACON (R402A) 9/11/90  TUDE ENCODER, BLIND -1000 TO 30,000 FT. RANGE 9/11/90  ERNATOR, 28-VOLT (95 AMP.) (EXCH.)  TERY, 24-VOLT, HEAVY DUTY (EXCH.)  CK, DIGITAL QUARTZ READOUT (EXCH.)  I-ICE SYSTEM, PROPELLER (ELECTRIC.)  HT, ICE DETECTION, LH	0.8	24.1	193
CICATER, ECUNCMY MIXTURE REMOVED 7/10/95 CICATER, TRUE AIRSPEED (EXCH) ECTORS, NAVIGATION LIGHTS  IGHT CONTROLS, DUAL CUND SERVICE PLUG RECEPTACLE OTING SYSTEM, STALL WARNING & PITOT (EXCH.) CHIS, COURTESY ATOR BEACON  I ANTENNA AND NAV COUPLER  N/C RT385A VOR/LOC (2ND UNIT) 9/11/90 Removed  GLIDESLOPE R4438 40 CH. INCL. VOR/ILS (EXCH.) 10/17/89  HARKER BEACON (R402A) 9/11/90  ETUDE ENCODER, BLIND -1000 TO 30,000 FT. RANGE 9/11/90  ERNATER, 28-VOLT (95 AMP) (EXCH.) TERY, 24-VOLT, HEAVY DUTY (EXCH.) CK, DIGITAL QUARTZ READOUT (EXCH.) I-ICE SYSTEM, PROPELLER (ELECTRIC.) HT, ICE DETECTION, LH	3.7	21.9	81
CICATOR, TRUE AIRSPEED (EXCH)  IECTORS, NAVIGATION LIGHTS  IGHT CONTROLS, DUAL  CUND SERVICE PLUG RECEPTACLE  ATTING SYSTEM, STALL WARNING & PITOT (EXCH.)  GHTS, COURTESY  ATOR BEACON  I ANTENNA AND NAV COUPLER  INC. RT385A VOR/LOC (2ND UNIT) & /11/90 RETTORED  I GLIDESLOPE 84438 40 CH. INCL. VOR/ILS (EXCH) 10/17/89  AETOVED  TUDE ENCODER, BLIND -1360 TO 30,300 FT. RANGE % 10/90  ERNATOR, 28-VOLT (95 AMP) (EXCH)  TERY, 24-VOLT, HEAVY DUTY (EXCH)  I-ICE SYSTEM, PROPELLER (ELECTRIC)  HT, ICE DETECTION, LH	9.6	8.1	7 e
TECTORS, NAVIGATION LIGHTS  IGHT CONTROLS, DUAL  GUND SERVICE PLUG RECEPTACLE  ATING SYSTEM, STALL WARNING & PITOT (EXCH.)  GHTS, COURTESY  ATOR BEACON  A ANTENNA AND NAV COUPLER  - N/C RT385A VOR/LOC (2ND UNIT) 9/11/90 Removed  - GLIDESLOPE R4438 40 CH. INCL. VOR/ILS (EXCH.) 10/17/89  AEMOVED  - HARKER BEACON (R402A) 9/11/90  - ERNATOR, 28-VOLT (95 AMP.) (EXCH.)  - TERY, 24-VOLT, HEAVY DUTY (EXCH.)  - ICE SYSTEM, PROPELLER (ELECTRIC)  - HT, ICE DETECTION, LH	• 6	8.0	5.
IGHT CCNTROLS, DUAL  CUND SERVICE PLUG RECEPTACLE  ATING SYSTEM, STALL WARNING & PITOT (EXCH.)  GHTS, COURTESY  CATOR BEACON  A ANTENNA AND NAV COUPLER  C-N/C-RT385A VOR/LOC (2ND UNIT) 9/11/90 RemoveD  C-SLIDESLOPE 84438 40 CH. INCL. VOR/ILS (EXCH.) 10/17/89  AEMOVED  FITUDE ENCODER, BLIND -1000 TO 30,000 (T. RANGE 9/11/90  TERNATOR, 28-VOLT (95 AMP.) (EXCH.)  TERY, 24-VOLT, HEAVY DUTY (EXCH.)  CCK, DIGITAL QUARTZ READOUT (EXCH.)  II-ICE SYSTEM, PROPELLER (ELECTRIC.)  HT, ICE DETECTION, LH	.1	17.0	2
CUND SERVICE PLUG RECEPTACLE ATING SYSTEM, STALL WARNING & PITOT (EXCH.) GHTS, COURTESY ATOR BEACON A ANTENNA AND NAV COUPLER C-N/C-RT385A VOR/LOG (2ND UNIT) 9/11/90 REMOVED COLIDESLOPE 84438 40 CH. INCL. VOR/ILS (EXCH.) 10/17/89 AEMICVED CITUDE ENCODER, BLIND -1000 TO 30,000 FT. RANGE 9/11/90 CERNATOR, 28-VOLT (95 AMP.) (EXCH.) CERNATOR, 24-VOLT, HEAVY DUTY (EXCH.) COMPANIENT OF THE SYSTEM, PROPELLER (ELECTRIC) CHT, ICE DETECTION, LH	_		
ATING SYSTEM, STALL WARNING & PITOT (EXCH.)  SHTS, COURTESY  ATOR BEACON  A ANTENNA AND NAV COUPLER  -N/C RT385A VOR/LOC (2ND UNIT) 9/11/90 REMOVED  -GLIDESLOPE 84438 40 CH. INCL. VOR/ILS (EXCH.) 10/17/89  ARMKER BEACON (8402A) 9/11/90  -TTUDE ENCODER, BLIND -1000 TO 30,000 (T. RANGE 9/11/90  ERNATCR, 28-VOLT (95 AMP) (EXCH.)  TERY, 24-VOLT, HEAVY DUTY (EXCH.)  I-ICE SYSTEM, PROPELLER (ELECTRIC.)  HT, ICE DETECTION, LH	6.7	14.1	94
ATOR BEACON  A ANTENNA AND NAV COUPLER  -N/C RT385A VOR/LOC (2ND UNIT) 9/11/90 RETTOURD  GLIDESLOPE R4438 40 CH. INCL. VOR/ILS (EXCH) 10/17/89  ARTHUR BEACON (R402A) 9/11/90  TTUDE ENCODER, BLIND -1000 TO 30,000 (T. RANGE 9/11/90  ERNATCR, 28-VOLT (95 AMP) (EXCH)  TERY, 24-VOLT, HEAVY DUTY (EXCH)  I-ICE SYSTEM, PROPELLER (ELECTRIC)  HT, ICE DETECTION, LH	2.2	4.5-	$1 \cup$
ATOR BEACON  A ANTENNA AND NAV COUPLER  NAVC RT385A VOR/LOC (2ND UNIT) 9/11/90 RETTOVED  COLIDESLOPE 84438 40 CH. INCL. VOR/ILS (EXCH) 10/17/89  AETOVED  HARKER BEACON (R402A) 9/11/90  CITUDE ENCODER, BLIND -1000 TO 30,000 FT. RANGE 9/11/90  ERNATCR, 28-VOLT (95 AMP) (EXCH)  TERY, 24-VOLT, HEAVY DUTY (EXCH)  CCK, DIGITAL QUARTZ READOUT (EXCH)  I-ICE SYSTEM, PROPELLER (ELECTRIC)  HT, ICE DETECTION, LH	. 2	22.1	4
ANTENNA AND NAV COUPLER  -N/C RT385A VOR/LOC (2ND UNIT) 9/11/90 RETTOVED  - GLIDESLOPE 84438 40 CH. INCL. VOR/ILS (EXCH) 10/17/89  - HARKER BEACON (R402A) 9/11/90  - TTUDE ENCODER, BLIND -1000 TO 30,000 FT. RANGE 9/11/90  - ERNATCR, 28-VOLT (95 AMP) (EXCH)  - TERY, 24-VOLT, HEAVY DUTY (EXCH)  - CK, DIGITAL QUARTZ READOUT (EXCH)  I-ICE SYSTEM, PROPELLER (ELECTRIC)  - HT, ICE DETECTION, LH	• 5	61.9	31
HARKER BEACEN (R402A) 9/11/90  THUBE ENCODER, BLIND -1000 TO 30,000 FT. RANGE 9/11/90  TERNATOR, 28-VOLT (95 AMP) (EXCH)  TERY, 24-VOLT, HEAVY DUTY (EXCH)  I-ICE SYSTEM, PROPELLER (ELECTRIC)  HT, ICE DETECTION, LH		157.6	552
HT. ICE DETECTION, LH	1.3	36.2	47
HARKER BEACEN (R402A) 9/11/90  ATTUDE ENCODER, BLIND -1000 TO 30,000 FT. RANGE 9/11/90 ERNATCR, 28-VOLT (95 AMP) (EXCH) TERY, 24-VOLT, HEAVY DUTY (EXCH) ECK, DIGITAL QUARTZ READOUT (EXCH) II-ICE SYSTEM, PROPELLER (ELECTRIC) HT, ICE DETECTION, LH	8.1	13.0	105
TTUDE ENCODER, BLIND -1000 TO 30,000 FT. RANGE TIMPO ERNATCR, 28-VOLT (95 AMP) (EXCH) TERY, 24-VOLT, HEAVY DUTY (EXCH) CK, DIGITAL QUARTZ READOUT (EXCH) I-ICE SYSTEM, PROPELLER (ELECTRIC) HT, ICE DETECTION, LH	4.3	6 - 4-	28
TERNATOR, 28-VOLT (95 AMP) (EXCH) TERY, 24-VOLT, HEAVY DUTY (EXCH) TOUR SYSTEM, PROPELLER (ELECTRIC) HT, ICE DETECTION, LH	2.8	99.1	277
TERY, 24-VOLT, HEAVY DUTY (EXCH)  CK, DIGITAL QUARTZ READOUT (EXCH)  I-ICE SYSTEM, PROPELLER (ELECTRIC)  HT, ICE DETECTION, LH	1.6	15.5	25
CK, DIGITAL QUARTZ READOUT (EXCH) I-ICE SYSTEM, PROPELLER (ELECTRIC) HT, ICE DETECTION, LH	4.8	4-1-	20-
I-ICE SYSTEM, PROPELLER (ELECTRIC) HT, ICE DETECTION, LH	2.0	3.0	Ċ
HT, ICE DETECTION, LH	. 1-	17.5	2.
	6.6	18.4-	121-
DE JAIR HANDLER DECHELTAGE	.6	9.6	6
PS AND HANDLES, REFUELING	1.7	18.5	31
HTS. INSTRUMENT POST	.6	18.5	11
HTING, ELECTROLUMINESCENT	2.3	17.0	39
HTS, STRUBE	the same of the sa	43.4	135
VE, OIL GUICK DRAIN NEGL.			
GEN SYSTEM 6-PORT	1	159.5	5200

# CESSNA AIRCRAFT COMPANY

WICHITA, KANSAS

# Weight & Balance and Installed Equipment Data

CONTROL	DATE	MODEL	REGISTRATION NUMBER	CESSNA SERIAL
123263	04/14/81	TURBO STATIONAIR 6	N6 461Z	U20606282

ITEM	WEIGHT	ARM	MOMENT
IMING SYSTEM ENGINE	1.0	8.5	- CONTENT
ATIC KIT, ANTI-PRECIPITATION CORDER, FLIGHT HOUR	. 4	153.6	61
	.4	9.0	4
AT PILCTS ARTICULATING RECLINE VERT. ADJ. (EXCH)	8.2	33.6	276
RES DIS MAIN & NIG INCL DIS SPEED FAIRINGS EXCH	8.2	33.6	276
NOOW, HINGED RH	13.7	49.6	680
DA NAVEMATIC INCL D GYRO CREDIT (EXCH.) 9/11/90 REMOUSE	2.3	48.C	110
-450C	9.3	39.2	365
VER/LEC IND. W/AUTOMATIC RADIAL CENTERING (EX) REMOVED	9.2	147.9	1361
I -PRECIPITATION ADF SENSE ANTENNA (EXCH.) REMOVED 9/11/90	• 2	15.5	3
910/00	. 8	156.3	125
IC EMPIT WEIGHT	2194.9	37.1	81 346
FUL LCAD	1421.1	7101	01 240
T MUIN CAMP TO THE			
I MUM RAMP WEIGHT	3616.0		
MUM TAKE-OFF WEIGHT 3600.0			
		İ	
		-	
•		1	,

# EQUIPMENT LIST SUPPLEMENT

Reg. No. N64612 Model No. T4206 G Serial No. 420606282 Date 9/5/96

		•	
DATE INSTALLED ITEM	WEIGHT	r ARM	DATE REMOVED
9/11/90 KMA - 24 - AUDIO PANEL	1.7	/3.0	11/2/03
9/11/90 - KX 155 NAV/COM	5.3		11/12/03
9/11/90 KX 155 NAU/COM	5.3	13.0	
9/11/90 R-40 ARNAV LORAN	4.7	13-0	4/4/95?
9/11/90 KN-62 DME	2.6	13-0	
9/11/90 KR-87 ADF	3-2	13-0	
9/11/90 KT-79 TRANSPONDER	3.1	13-0	
9/11/90 KI 525 HSI	4-0	13.8	
9/11/90 KI-209 CDI	1.2	15.5	
9/11/90 KI-227 ADF INDICATOR	. 5	15.5	
9/11/90 WX-10A STORMSCOPE ENDIEATOR	2-5	15.5	Removed
9/11/90 AUTO PILOT ANNUNCIATOR	1.2	15.5	00.49
9/11/90 TUBN AND BANK	1.8	15.0	
11/90 KMT-112 FLUX VALUE (LEFT WING)	. 3	167.5(4	(5.)
1/11/90 ROLL SERVO (RIGHT WING)	2.9	128.0	
1/1/90 WX - 10A STORMSCOPE RECEIVER	2.5	160.0	Removed
1/11/90 KG-102A GYRO	4.3	156.0	
11/90 PITCH COMPUTER		160.0	
1/11/90 ROLL COMPUTER	2.3	160.0	
11/90 PITCH SERVO		188.0	
11/90 TRIM SERVO		175.0	
11/90 AUTO PIZOT TRANSDUCER		166.4	
2010A			

AV2010A

THE TAXABLE TON Municipal Airport Elizabethton, TN 37643 RS # DVPR374D

# EQUIPMENT LIST SUPPLEMENT

Reg. No. N64617 Model No. TU206G Serial No. U20606282 Date 9/5/96

		7/2//	
DATE INSTALLED ITEM	WEIGHT	r ARM	DATE REMOVED
9/11/90 ALTITUDE ENCODER	1.0	10.0	
9/11/90 KA-33 BLOWER	2.0		
9/11/90 CIRCUIT BREAKERS (TEA PEDESTAL)	1.0		
9/11/90 R\$08-001 NAV SWITCHENG BOX	, 3		0 0
9/11/90 KA-51B SLAVING METER	.2	15.5	
4/95 GARMIN PRONAU 100 GPS	-1.7		6/26/95
4/4/95 CARTIN ANTENNA	5	1	6/26/95
6/21/95 ATS-8000 RYAN TCAD PLUS TRAY	3,6	16.4	1-729/13
6/21/95 DUAL ANTENNA MODULE	* 5	24,0	
6/21/95 TRANSPONDER COUPLER	. 5	24.0	
6/21/95 KA 90 ANTENNA	*5	34.0	Report
121/95 KA 90 ANTENNA	. 5	15.0	1)
126/95 ILHORROW APOLLO GPS	3,6	15.5	17
126/95 GPS ANTENNA	*4	50-0	11
126/95 ALTITUDE SERIALIZER	*4	5.5	
128/95 6:00 × 6 NOSE GEAR FORK ASSY	8.2	- 7.75	
128/95 SEAT BELTS (REF SK206-44)	1.5	70-0	
128/95 SEAT BELTS (REF \$K206-44)		100.0	
28/95 TANNIS ENGINE PRE-HEATER		-18.0	
28/95 OILAMATIC PREDIZER SYSTEM	,	-18.00	
28/95 PRE-OILER HOSES		-4.5	
10/95 GEM DISPLAY UNIT		7.5	

AV2010A

Municipal Airport Elizabethton, TN 37643 RS # DVPR374D

# EQUIPMENT LIST SUPPLEMENT

Reg. No. N64612 Model No. 74206 G Serial No. 420606282 Date 9/5/96

DATE INSTALLED ITEM	WEIGHT	ARM	DATE REMOVED
7/10/95 EGT CLAMP PROBES (GEA)	3.4	-/8.0	
7/10/95 CHT CLAMP PROBES (SEA)	2.3	-18.0	
7/10/95 TIT CLAMP PROBE (IEA)	. 3	-18.0	
7/10/95 OAT PROBE KIT	.5	-18-0	
4/10/95 WIRING HARNESS	2.1	-4.0	
7/10/95 PREZISION VERTICAL CARD COMPASS	15	5.5	
7/10/95 RAPES 012 FILTER EXTENSION TUBE	NEGL		
10/27/95 AIRBORNE AUX DRY AIR PUMP BRILT ASSY	9.2	0.0	
10/27/95 AIRBORNE AUX DRY AIR PUMP MANIFOLD ASY		-7,5	
10/27/95 AIRBORNE AUX DRY AIR PUMP FITTINGS HOSES	.6	-1.5	
10/27/95 AIRBORNE AUX DRY AIR PUMP WIRE HARNESS	13	-3-0	
10/27/95 AIRBORNE AUX DRY AIR PUMP MISC WIRE	' 1	-3.0	
10/27/95 AIRBORNE AUX DRY AIR PUMP HARDWARE	*2	-4.0	
10/27/95 SHADIN FUEL FLOW SYSTEM- INDICATOR	1,0	14.5	
10/27/95 SHADIN FUEL FLOW SYSTEM- TRANSDUCER	1.0	-28.5	
4/18/96 AIM ELECTRIC HORIZON	2.5	16-0	
7/10/95 INFLATABLE DOOR SEAL ELECTRIC PUMP	1.5		
FWD SINGLE ENGINE MOUNTS		-22.85	5/22/97
5/22/97 FWD DUAL ENGINE ISOLATOR MOUNTS		-22,85	
122/97 KNISLEY EXHAUST SYSTEM (REMOVES REAR CRESSOVER STAND	NEGI	NEGL.	
1/12/03 6ns 530 GN/125/675 /moving on AP	8	13	
1/12/03 BmA 340 Andis Panel	2	13	
2010A			

AV2010A



1940 International Way
Idaho Falls, ID 83402
FAA Repair Station #QI5R146N
208/524-2792 or 208/524-2666
FAX 208/524-2792
Web page www.iaavionics.com
E-mail iaaela@onewest.net

# EQUIPMENT LIST SUPPLEMENT

Reg. No. <u>64612</u> Model No. <u>742066</u> Serial No. <u>420606282</u>

date installed	Item	weight	arm	date
???	PM 3000 intereor  CREUS 5000CE moving MAP		-	remove
222	Pagus 5000 CE mining	- /	13	11/12/0
	Server Map	- 4	13	11/12/03
				-
				-

Gate 9
1940 International Way
Idaho Falls, Idaho 83402
523-4283; CELL 208/589-4283
fax 208/524-2792

N- 446XZ

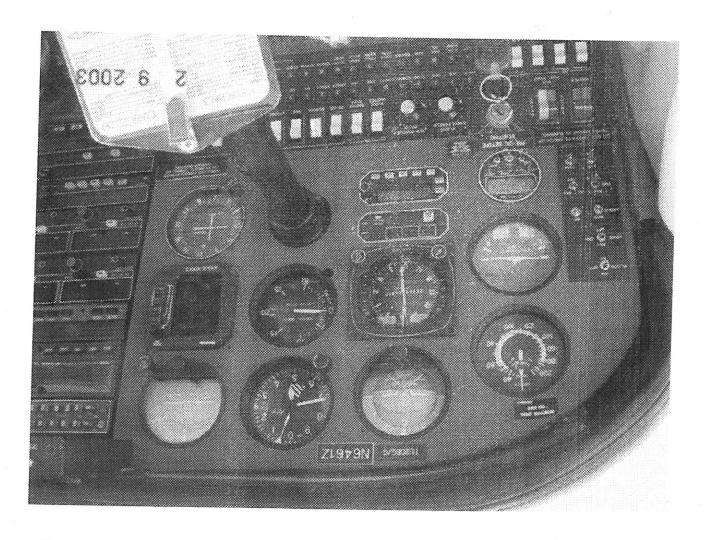
CUSTOMER: Reno Brown

MAKE: CESSNA

MODEL: TUZOG

SERIAL #U2060628 DATE: Oct 8, 2003

		2003	
WEIGHT &	BALANCE COMPU	TATION	
		THION	
	Tun San		
LEFT MAIN GEAR	MEIGHE	ARM	MOMENT
RIGHT MAIN GEAR	=		
weight as of oct 8,2003	2403.0		
Bemand mainagar Dante	-11.32	Va	90553.10
Kemoved mose gear pant	-5.81	5.80	-701.84
NEW ARM	+ 2385.87	2000	30.21
NEW MOMENT			39881.47
NEW USEFUL LOAD			37.67
MAX RAMP WT.			12/4/2
Alimii a			3600.0
AUTH.	ALP 1744682		00.0
			7



Municipal Airport Elizabethton, TN 37643

## **WEIGHT AND BALANCE**

Aircraft N: 6461Z	Model:C	-TU206G	SN: <u>U2</u>	0606282
Current Date: 01-07-02  Licensed Empty Weight Includes: Unusable fuel and undrainable of			nce Dated:1  ic Empty Weigh : Unusable fuel and f	t
Certified Takeoff Cross Weight		Certified Takeoff Gross		
New Licensed Empty Weight		New Basic Empty Weig		
New Useful Load		New Useful Load		
New Licensed Empty Weight CG		New Basic Empty Weig		1107100
	ı			
ITEM		WEIGHT	ARM	MOMENT
Previous Weight as of 12-07-01		2385.87	37.67	89881.47
INSTALLED				
Main Gear Wheel Pants		11.32	62.00	701.84
Nose Gear Wheel Pant		5.81	-5.20	-30.21
	NEW E	MPTY WEIGHT		MOMENT TOTAL
		2403.00	37.68	90553.10
oct 8 soos	INS	PECTOR: // Sec	onal sheets are a	attached.

Municipal Airport Elizabethton, TN 37643

# WEIGHT AND BALANCE

Aircraft N: 6461Z Model: _	C-TU206G	SN: <u>U206</u>	606282
Current Date: 12-07-01 Su  Licensed Empty Weight Includes: Unusable fuel and undrainable oil	ipersedes Weight and Bal Bas Include	ance Dated: 11-6 sic Empty Weight s: Unusable fuel and full o	
Certified Takeoff Gross Weight	Certified Takeoff Gros	s Weight	3600.0
New Licensed Empty Weight	New Basic Empty Wei	jht	2385.87
New Useful Load	New Useful Load		1214.13
New Licensed Empty Weight CG	New Basic Empty Weig	iht CG	37.67
Previous Weight as of 11-08-00  Removed  Main Gear Wheel Pants  Nose Gear Wheel Pant	<u>WEIGHT</u> 2403.00	<u>ARM</u>	<u>MOMENT</u> 90553.10
Main Gear Wheel Pants	-11.32	62.00	-701.84
Nose Gear Wheel Pant	-5.81	-5.20	30.21
<u>NE</u>	EW EMPTY WEIGHT 2385.87		MOMENT TOTAL 89881.47

[ ] / If additional sheets are attached.

Municipal Airport Elizabethton, TN 37643

# **WEIGHT AND BALANCE**

Aircraft N: 6461Z Mode	el: <u>C-TU206G</u>	SN:	U20606282
Current Date:11-08-00	Supersedes Weight	and Balance Dated:	8-25-98
Licensed Empty Weight Includes: Unusable fuel and undrainable oil		Basic Empty Wei Includes: Unusable fuel an	<b>ght</b> d full oil
Certified Takeoff Cross Weight	Certified Take	off Gross Weight	3600.0
New Licensed Empty Weight	New Basic Emp	oty Weight	2403.00
New Useful Load	New Useful Loa	ad	1197.00
New Licensed Empty Weight CG	New Basic Emp	ty Weight CG	37.68
	ı		
<u>ITEM</u>	WEIGHT	ARM	MOMENT
Previous Weight as of 8-25-98	2404.30	37.67	90590.80
Previous Weight as of 8-25-98  Removed  Fire Extinguisher M/N GH-2 1\2 J  Oktober 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/			
Removed  Fire Fitherwicker AMA GLOCALO AND	19		
Fire Extinguisher M/N GH-2 1\2 J	-5.00	29.00	-145.00
Installed			
Fire Extinguisher M/N RT-A1200	3.70	29.00	107.30
	NEW EMPTY WEIGHT	NEW EMPTY WEIGHT CG	MOMENT TOTAL
	2403.00	37.68	90553.10
	INSPECTOR:	leity Eucsin	

[ ] ✓ If additional sheets are attached.

Municipal Airport Elizabethton, TN 37643

## WEIGHT AND BALANCE

Aircraft N 6461Z	, Model	C-TU206G , SNU2060	06282
		des Weight & Balance Dated	
Max Cert Takeoff Gross W	t3600.0	, New E. W. CG37.7	
New Empty Weight	2404.3	, Includes unusable fuel and u	ndrainable oil
New Useful Load	1195.7	, Empty weight (does/ <del>does not</del> )	include full oil (11 qts.)
ITEM	WEIGHT	ARM	MOMENT
A/C as weighed: Left Main Right Main Nose	763.0 769.5 826.2	61.4 61.4 - 8.1	46848.2 47247.3 -6692.2
Undrainable Fuel (4 gal. IAW POH)	24.0	48.0	1152.0
Oil (1 qt. to make full oil of 11 qts.) (7.5 US/Gal)	1.9	-19.4	- 36.9
Rear (3rd row) seats	19.7	105.2	2072.4
	2404.3		90590.8

DATE INITIALS THE

Inspector Auchael C. Duble

[ ] Additional Sheets are Attached

# Weight and Balance Data

N6461Z

Make: Cessna

Model: TU206G

Serial: U20606282

Tach: 1038.0

TT: 2115.9

Year: 1981

Supersedes Wt. & Bal. dated: October 24, 1997

A ID CD A ET EMPTY WEIGHT C.C. A CO.	WEIGHT	ARM	MOMENT
AIRCRAFT EMPTY WEIGHT, C.G,. MOMENT	2346.7		98454.6
Removed Aero Twin, Inc. Main Gear Gravel Deflectors	-8.5	60.5	51405
Removed MAF Equipment	-8.3	60.5	-514.25
Removed MAF Emergency Kit	-7.0	N1922 CAUSE COURT	-3683.0
	-7.0	70.0	-490.0
198			
5 J.			
DATE			
TOTALS	2302.2	40.73	93,767.4

Aircraft Gross Weight	3600	LBS.
New Basic Empty Weight**	2302	LBS.
New Empty Weight Center of Gravity	41.0	IN. Aft of Datum
New Useful Load	1298	LBS.

Form 337 Required: Yes X No\_\_\_

\*\*Note: New Basic Empty Weight includes unusable fuel and full oil.

Completed by 5

Steve Holz

A&P 332388550

Date January 28, 1998

Municipal Airport Elizabethton, TN 37643

## WEIGHT AND BALANCE

Aircraft N 6461Z	, ModelTU206G	, snU206062	82
Current Date 10-17-97	, Supersedes We	eight & Balance Dated 05-	22-97
Max Cert Takeoff Gross Wt.		v E. W. CG 41.22	
New Empty Weight		cludes unusable fuel and ur	ndrainable oil
New Useful Load		oty weight (daes/does not)	include full oil
ITEM	WEIGHT	ARM	MOMENT
OLD EMPTY WT.	2280.94		93957.5
REMOVED			
NOSE WHEEL FAIRING MAIN WHEEL FAIRINGS NEW EMPTY WT.	-6.0 -11.0 2263.94	-5.6 62.0	+33.6 -682.0 93309.1

NOTE: THIS IS A TEMPORARY CHANGE.

Inspector Michael C. D. Alex

[ ] Additional Sheets are Attached

MA1007

Municipal Airport Elizabethton, TN 37643

## WEIGHT AND BALANCE

Aircraft N 6461Z	_, Model	TU206G , SN	U20606282
Current Date 3 <del>680</del> 5~23	1-97, Supersed	es Weight & Balance Date	d
Max Cert Takeoff Gross Wt.	3600	, New E. W. CG	41.192
New Empty Weight	2280.94	, Includes unusable fuel	and undrainable oil
New Useful Load	1319.06	, Empty weight ( <del>does</del> /does	s not) include full oil
ITEM	WEIGHT	ARM	MOMENT
Old A/C Empty Weight	2274.94		94094.6
Removed: Original Cessna Single Forward Engine Mounts	- 5.8	-22.85	+ 132.53
Installed: Aero Modifications Dual Forward Engine Mounts	11.8	-22.85	- 269.63 
New Empty Weight	2280.94		93957.5

Inspector Michael C. Dukly

[ ] Additional Sheets are Attached

## Knox Air, Inc. 2221 Airport Highway, Alcoa, TN 37701 FAA Repair Station REAR489M Phone (615) 970-3177

## Aircraft Weight & Balance and Supplemental Equipment List

Malte & Model: CESSNA TU206G

Reg. No: N6461Z Serial No: U20606282

Owner: COLUMBIA AVIATION, INC

Tach Time:

797.20

Hobbs Time: Work Order#: 2170.80 17815

Address:

5401 KINGSTON PIKE STE 190

KNOXVILLE, TN 37919

Equipment Description	Part#	Serial #	Weight	Arm	Moment
From Previous W&B Dated: 10/27/95			2288.24	41.11	94078.35
Removed:			1 1	- 1	
					0.00
				1	0.00
		1		- 1	0.00
				1	0.00
					0.00 0.00
			1 1		0.00
			1 1		0.00
1			1 1		0.00
			1 1		0.00
1					0.00
					0.00 0.00
I				- 1	0.00
1					0.00
			1		0.00
installed:					0.00
AM ELECTRIC HORIZON MODEL NO. 305-2BL	50400339.3	25167	2.50	16.00	40.00
					0.00 0.00
I				1	0.00
*					0.00
1				I	0.00
1				1	0.00
1				-	0.00 0.00
				-	0.00
					0.00
				- 1	0.00
1					0.00 0.00
	1			- 1	0.00
1	1				0.00
1	1	1			0.00
I	I	1		1	0.00
1		J		1	0.00
TOTALS:			2290,74	41.09	0.00 94116.35

New Useful Load:

New Empty Weight

New Empty Weight C.G.:

New Moment Gross Weight

1309.26 lbs

2290.74 lbs

41.09 " aft of datum

94116.35 " lbs

3800.00 lbs

Date: 4/18/98

Superseded 10-24-97

# Knox Air. Inc. 2221 Airport Highway. Alcoa, TN 37701 FAA Repair Station RE4R489M Phone (615) 970-3177

## Aircraft Weight & Balance and Supplemental Equipment List

Make & Model: Cessna TU206Q

Reg. No: N6461Z Serial No: U2060606262 Owner: Columbia Aviation Inc.

Tach Time: Hobbs Time: 752.40

Work Order#:

17205, 17223

Address:

5401 Kingston Pike, STE 190

Knowille, TN 37919

Equipment Description	Part#	Serial #	Weight	Arm	Moment
LLOW LLEANORS ASTR DSTEED; 1/10/82			2274.94	41.38	94094.80
Installed: Airborne Aux Dry Air Pump Kit 372- Pump-Britt Assy. Manifold Assy. Pump Fittings & Hose Switch-Wire Harness Misc. Hardware Shadin Minifio-L Fuel Flow System Panel Unit Transducer	F1-1-1 1H5-18 F7-74-1 912041T-D 680501	6803 84130	9.20 0.90 0.60 0.30 0.10 0.20		94094.80  0.00 0.00 0.00 0.00 0.00 0.00 0.00
					0.00 0.00
TOTALS:				1	0.00 0.00

New Useful Load:

1311.76 lbs 2288.24 lbs

New Empty Weight
New Empty Weight C.G.:

41.11 " aft of datum 94076.35 " ibs

**New Moment:** 

**Gross Weight** 

3600.00 lbs

Weight & balance superceded
Date 4//8/96 Signed

Knox-Air, Inc. CRS#RE4R489M

Signed:

Data: 10/27/95

# Patterson Aviation Service Executive Airport Sacramento, CA Weight & Balance and Equipment List Revision

"Cranc & De	arance and Equipmen	IL LIST KEVISIO	on	
Make : CESSNA		N6461Z		
Model: TU206G		S/N U2060	606282	
Tach: 692.2	=======================================	Hobbs:		
Previous Aircraft W Date 06-28-95	//B	Weight 2274.94	Arm 41.36	Moment 94094.60
Model Serial	Description			
Items Removed:				
	MAGNETIC COMPASS	-0.50	5.50	-2.75
Items Added:				
PAI-700 26702	PRECISION VERTICAL			
RA100-1	RAPCO OIL FILLER E		5.50	2.75
		Neg. Neg.	0.00	Neg. Neg.
Item Sub Total		0.00		0.00
=======================================	=======================================	==========	======	========
		2274.94		94094.60
New Moment / New Emp 94094.60 / 2274.	oty Weight = EWCG 94 = 41.36	135		
Gross Weight =	3600.00	The above wor	k was co	ompleted
New Empty Weight =	2274.94	regulations.		
New Useful Load =	1325.06	Details on fi station under	le at the	nis repair der #73558
New Moment =	94094.60	Repair Statio	n #AVUR	289C
New EWCG =	41.36	Date: 07-10-9		
		Technician:	Renner B	rewer
		Inspector :	FF / Bu	Sley
				//)

Weight & balance superceded
Date to 21/9.5 Signed
Knox-Air, Inc. CRS#RE4R489M

Weight & Balance and Equipment List Revision

Make: CESSNA N6461Z

Model: TU206G S/N U2060606282

Tach: 692.2 Hobbs:

Previous Date	Aircraft 06-26-95	W/B	Weight 2264.84	Arm 41.60	Moment 94210.50
Model	Serial	Description		=======	
Items Add	ded:				
610 2870 2852 2856	1154	GEM DISPLAY UNIT EGT CLAMP PROBES (6) CHT CLAMP PROBES (5) CHT BAYONET PROBE (1)	1.00 3.40 2.30	10.50 -18.00 -18.00	10.50 -61.20 -41.40
2871 610-020 330860		TIT CLAMP PROBE OAT PROBE KIT WIRING HARNESS	0.30 0.50 0.50 2.10	-18.00 -18.00 -2.00 -4.00	-5.40 -9.00 -1.00 -8.40
Item Sub	Total		10.10		-115.90
=======			=======		========
			2274.94		94094.60

New Moment / New Empty Weight = EWCG 94094.60 / 2274.94 = 41.36135

Gross Weight = 3600.00

New Empty Weight = 2274.94

New Useful Load = 1325.06

New Moment = 94094.60

New EWCG = 41.36

The above work was completed in accordance with current FAA regulations.

Details on file at this repair station under work order #46720

Repair Station #AVUR 289C

Date: 06-28-95

Technician: Russ Hays

Inspector



Weight & Balance and Equipment List Revision

Make: CESSNA N6461Z

Model: TU206G S/N U2060606282

Tach: 692.2 Hobbs: Previous Aircraft W/B \_\_\_\_\_\_ Weight Arm 06-21-95 Moment 2250.70 \_\_\_\_\_\_\_ 41.82 94115.27 Model Serial Description Items Removed:

5.00X5 NOSE GEAR FORK ASSY. -6.50 -7.75 50.38

Items Added:

NOSE GEAR FORK ASSY. -6.50 -7.75

NOSE GEAR FORK ASSY. MIDDLE SEAT BELTS (2) 8.50 SK 206-44 -7.75-65.88SK 206-44 TAS-100 1.50 70.00 105.00 AFT SEAT BELTS (2) TANNIS ENGINE PREHEATER 1.50 100.00 24323 150.00 4110A 1.34 -18.009506452 OILAMATIC PREOILOER SYSTEM -24.126.30 -18.00 -113.40PREOILER HOSES 1.50 -4.50 -6.75Item Sub Total

Ttem Sub Total 14.14 95.23

2264.84 94210.50

New Moment / New Empty Weight = EWCG 94210.50 / 2264.84 = 41.59698

Gross Weight = 3600.00

New Empty Weight = 2264.84

New Useful Load = 1335.16

New Moment = 94210.50

The above work was completed in accordance with current FAA regulations.

Details on file at this repair station under work order #73457

New EWCG = 41.60 Date: 06-26-95

Technician: Arron Gibbs

Inspector : Than



Make : CESS	SNA		N6	461Z		
Model: TU20	6G		S/1	N U206	0606282	
Tach: 692.	2		Hol	obs:		
	-21-95	//B ========	224	ight 19.20	Arm 41.84	Moment 94099.48
Model S	erial	Description				=======
Items Remov	ed:					
GPS 100 9:	1212006 055	GARMIN GPS GPS ANTENNA		2.40	15.50 50.00	-37.20 -25.00
Items Added	:					
A-33 15	4784 5492 380	IIMORROW APOLLO GI GPS ANTENNA ALTITUDE SERIALIZI	ER	3.60 0.40 0.40 Neg.	15.50 50.00 5.50 0.00	55.80 20.00 2.20 Neg.
Item Sub Tot	T. D. 1882			1.50		15.80
			225	 0.70	=======	94115.27
New Moment / 94115.27 /	New Emp 2250.	ty Weight = EWCG 70 = 41.81	6			
Gross Weight	=	3600.00	The abo	ove wo	rk was co	ompleted urrent FAA
New Empty We	ight =	2250.70	redutat	clons.		
New Useful L	oad =	1349.30	Station	1 1111111111111111111111111111111111111	ר שחצע הז	nis repair der #46720
New Moment	=	94115.27	Repair	Statio	on #AVUR	289C
New EWCG	=	41.82	Date: 0			
			Technic	cian:_	Russ Ha	ys
			Inspect	or :	THIA	islay



Make : CESSNA					
			N6461Z		
Model: TU206G			S/N U206	0606282	
Tach: 692.2			Hobbs:		
Previous Aircrat Date 5-16-95	ft W/B		Weight 2243.60	======= Arm 41.89	Moment 93991.80
Model Serial	Description	======: n		=======	=========
Items Added:	<u> </u>				
ATS-8000 950223		ING MDAY	2.90	16.40	47.56
70-1050 950511 70-1040 950277		VA MODIII.E	0.70 0.50	16.40 24.00	11.48 12.00
KA 90 KA 90	ANTENNA	R COUPLER	0.50 0.50	24.00 34.00	12.00 17.00
	ANTENNA		0.50	15.30	7.65
Item Sub Total			5.60		107.69
		=======	========		========
Note Moment / Manage	-		2249.20		94099.48
New Moment / New 94099.48 / 22	Empty Weight = 249.20 =	EWCG 41.8368	6		
Gross Weight	= 3600.00	T	he above wo	rk was c	Omnleted
New Empty Weight	= 2249.20	i: re	he above wor n accordance egulations.	e with co	urrent FAA
New Useful Load	= 1350.80	De	Details on file at this report station under work order		
New Moment	= 94099.48	Re	epair Statio	on #AVUR	289C"
New EWCG	= 41.84	Da	ate: 06-21-9	95	
		Te	echnician:_	Russ Hay	S
		Ir	spector :	A Sain	Doel
			-0-		



# Walker Aviation

3501 Airport Rd. Placerville Ca. 95667

# WEIGHT & BALANCE

N6461 Z CESSNA TU206G S/N U20606282

AIRCRAFT EMPTY	WEIGHT 2265.5	CG 42.80	MOMENT 96963.4
REMOVED EQUIPMENT  KAC – 952  KTR – 953  KCU – 951	-14.0 - 6.8 - 1.1	142.0 142.0 16.4	-1988.0 - 965.6 - 18.0
NEW EMPTY WEIGHT	2243.6	41.89	93991.8

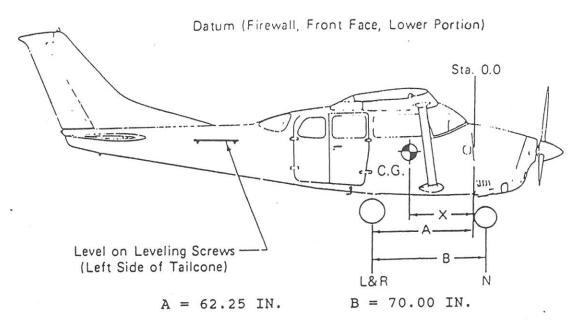
**NEW EMPTY WEIGHT NEW CG** 

**NEW MOMENT** NEW USEFULL LOAD

2243.6 LBS. 41.89 IN. 93991.8 IN/ LBS. 1356.4 LBS.

A&P 560332681

5-16-95



# AIRCRAFT WEIGHED THIS DATE IN THE FOLLOWING CONDITION:

- 1. FULL FUEL
- 2. 12 QUARTS ENGINE OIL
- 3. 2 FRONT SEATS
- 4. 2 REAR SEATS
- 5. AVIONICS AND EQUIPMENT INSTALLED MARCH 4, 1993

	NOSE WHEEL LEFT MAIN RIGHT MAIN	LBS 774 1007 1035	ARM -7.75 62.25 62.25	MOMENT/1000 -5.99850 62.68575 64.42875
SUBTRACT	USABLE FUEL ENGINE OIL	-528.0 -22.5	-19.4	-24.60000 0.43650
•	TOTALS	2265.5	42.80	96.9525

EMPTY WEIGHT:

EMPTY WEIGHT C.G.:

EMPTY WEIGHT MOMENT/1000:

2265.5 LBS

42.80 IN

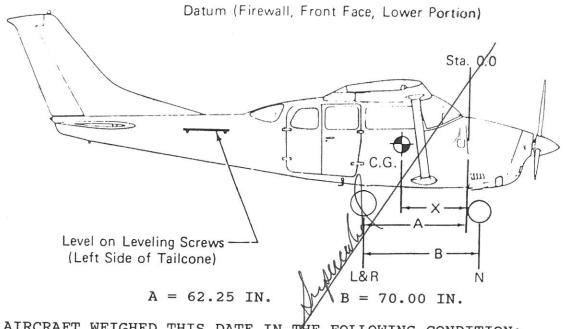
96.95 IN LBS

PAUL W. JOHNSON

A&P 28054\$882

KnoxVille, The Mr. Thompson

# WEIGHT AND BALANCE N6461Z CESSNA TU206G S/N U20606282 SEPTEMBER 11, 1990



AIRCRAFT WEIGHED THIS DATE IN THE FOLLOWING CONDITION:

- 1. FULL FUEL
- 2. 12 QUARTS ENGINE OIL
- 3. 2 FRONT SEATS
- 4. 2 REAR SEATS
- 5. AVIONICS AND EQUIPMENT INSTALLED SEPTEMBER 11, 1990

	NOSE WHEEL LEFT MAIN RIGHT MAIN	LBS 839 774 947 /0 <b>69</b> 987 /035	ARM -7.75 62.25 62.25	MOMENT/1000 -6.50225 58.95075 61.44075
SUBTRACT	USABLE FUEL ENGINE OIL	-528.0 -22.5	-19.4	-24.60000 0.43650
	TOTALS	2222.5	40.37	89.72575 8

EMPTY WEIGHT:

2222.5 LBS

EMPTY WEIGHT C.G.:

40.37 IN

EMPTY WEIGHT MOMENT/1000:

89.72 IN LBS

Edward a. THISTLETHWAITE, JR. A&P 435706178

# EQUIPMENT LIST N6461Z CESSNA TU206G S/N U20606282 SEPTEMBER 11, 1990

# AVIONICS EQUIPMENT LIST:

RADIO STACK:		
KMA-24 AUDTO AMP	1 7	13 0
KX-155 NAV/COM	5.3	13.0
KX-155 NAV/COM	5.3	13.0
R-40 ARNAV LORAN	4.7	13.0
KN-62 DME	2.6	13.0
KR-87 ADF	3.2	13.0
KMA-24 AUDIO AMP KX-155 NAV/COM KX-155 NAV/COM R-40 ARNAV LORAN KN-62 DME KR-87 ADF KT-79 TRANSPONDER	3.1	13.0
DILOGIC THEFTHE		
KI-525 HSI	4.0	13.8
KI-209 CDI	1.2	15.5
KI-227 ADF INDICATOR	0.5	15.5
WX-10A STORMSCOPE IN	2.5	15.5
AUTOPILOT ANNUNCIATOR	1.8	15.5
KI-525 HSI KI-209 CDI KI-227 ADF INDICATOR WX-10A STORMSCOPE INI AUTOPILOT ANNUNCIATOR TURN & BANK	1.8	15.0
LEFT WING:		
KMT-112 FLUX VALVE	0.3	167.5
RIGHT WING:		
ROLL SERVO	2.9	128.0
AFT RADIO COMPARTMENT:		
WX-10A STORMSCOPE RCV	R 2.5	160.0
KG-102A GYRO	4.3	156.0
PITCH COMPUTER	3.0	160.0
ROLL COMPUTER	2.3	160.0
PITCH SERVO	2.9	188.0
TRIM SERVO	2.9	175.0
AFT RADIO COMPARTMENT:  WX-10A STORMSCOPE RCV  KG-102A GYRO  PITCH COMPUTER  ROLL COMPUTER  PITCH SERVO  TRIM SERVO  AUTOPILOT TRANSDUCER  BEHIND COPILOT'S PANEL:	0.2	166.4
BEHIND COPILOT'S PANEL: ALTITUDE ENCODER KA-33 BLOWER		
ALTITUDE ENCODER	1.0	
KA-33 BLOWER	2.0	
CENTER CONSOLE:		
CIRCUIT BREAKERS (7 EA)	1.0	
NAV SWITCHES	0.3	
PILOT'S LOWER PANEL		
KA-51B SLAVING METER	0.2	

# CESSNA AIRCRAFT COMPANY

WICHITA, KANSAS

# Weight & Balance and Installed Equipment Data

CONTROL	DATE	MODEL	REGISTRATION NUMBER	CESSNA SERIAL NUMBER
185263	35/19/81	TUPBU STATIONAIR 6	N6 46 1 Z	U20606282

### 100 R/T  ###################################	ITEM	WEIGHT	ARM	MOMENT
### 10 KIT ANTI-PRECIPITATION ECLERGER, FLIGHT HOUR EAT FILETS ARTICULATING RECLINE VERT. ADJ. (EXCH) EAT FILETS ARTICULATING RECLINE VERT ADJ. (EXCH) EAT FRENT PASSENGER ARTIC RECLINE & VERT ADJ. EX.  EAT FRENT PASSENGER ARTIC RECLINE & VERT ADJ. EX.  INDEW, HINGED RH  INDEW, HINGED RH  INDEW, HINGED RH  INDEW, HINGED STRUCK CRESH (EXCH.) REMOVED 10/12/87  A 48.0  2.3 170.0  2.3 150.0  3.0 150.0  4.8 187.5  3.0 150.0  4.8 187.5  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 150.0  3.9 170.0  5.2 150.0  6.2 33.6  6.2 30.0  6.2 167.9  6.2 167.9  6.2 167.9  6.3 167.9  6.3 167.9  6.3 167.9  6.3 167.9	RIMING SYSTEM ENGINE	1.0	8.5	9
EAT PILETS ARTICULATING RECLINE VERT. ADJ. (EXCH)  EAT. FRENT PASSENGER ARTIC RECLINE & VERT ADJ. (EXCH)  LETS FEENT PASSENGER ARTIC RECLINE & VERT ADJ. (EXCH)  INDEW, HINGED RH  LETS AND MAIN & N/G INCL B/S SPEED FAIRINGS EXCH  INDEW, HINGED RH  LETS AND MAINTING INCL BOYRU CREDIT (EXCH.)  REMOVED 10/18/97  ASIC EMPTY WEIGHT  SEFUL LEAD  EXIMUSE RAMP WEIGHT  SEFUL LEAD  EXIMUSE RAMP WEIGHT  AND INCLUDED THE STORE THE SET OF		. 4	153.6	61
### 10A R/T  ### 1		. 4	9.0	4
13.7   49.6   1.00	EAT FILLIS ARTICULATING RECLINE VERT. ADJ. (EXCH)	8.2	33.6	27.6
ABOUT THE PROPERTY   STANDARD GOOKE MAN + SOOKS NAW   1/0/87   1/10/87   1	THE STATE PASSENGER ARTIC RECLINE & VERT ADJ EX.		33.6	276
### DAR/T  ### 10A R/T  ### 10A R/T  ### 10A R/T  ### 10A R/T  ### 10A Display  ### 10A D	TAGES STATE OF THE THE TAGES CACH		49.6	680
## 10A R/T		I .		110
## 10A R/T  ## 10A R/T  ## 10A R/T  ## 10A R/T  ## 10A Display  NOT  **  **  **  **  **  **  **  **  **	ALL CHARLES INCL D DENO CHEDII (FYCHE) SEMONED IONISIAN		39.2	347
### 10A R/T    The first of the state of the	AS WEST THE WASTOMATER DAGGAL COURSELING ACTUAL	9.2		1361
ASIC EMPTY WEIGHT  SETUL LEAD  AKINUM RAMP WEIGHT  AKINUM RAMP WEIGHT  AKINUM RAMP WEIGHT  AKINUM RAMP WEIGHT  ACTION TAKE—OFF HEIGHT 2600.0  Removed 8:00x6 Tires + Tubes 9 wheelponts  This formation 600x6 Man + 500x5 Man 1/10/85  THE 10A R/T  WE 10A R/T  WE 10A R/T  WE 10A Dioplay  NT  ing Cyro  1 4.8 187.5 90  3 170.0 5  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ATT-PRECIPITATION ADE SENSE ANTENNA (EXCH.)			125
1421.1   1421.1   1421.1   1421.1   3616.0   3616.0   3	ASIC FURTY WEIGHT		1	
## 10A R/T    No   10A R/T     No   10A		The control of the co	37.1	81340
Removed 8:00 x6 Tires + Tubes 0 wheelpan's	JEF OF FEAR	1421.1		
Removed 8:00 x 6 Tires + Tubes & wheelpants  Thotalled 8:00 x 6 Tires Tubes Airyless nose fork  Thotalled 8:00 x 6 Tires Tubes Airyless nose fork  INST. STANDARD 600 x 6 M/N + 500 x 5 N/W 1/10/87  WE 10A R/T 2.0 91.0 18  181 104 Value  181 105 105 105 105 105 105 105 105 105 10	AXINUM RAMP WEIGHT	3616.0		
INST. STANDARD GOOXE M/N + 500X5 N/W 1/10/87				
Inst. Standard 600x6 M/w + 500x5 N/w 1/10/87	Removed 8:00x6 Tires + Tubes Q wheelpants			
Inst. Standard 600x6 M/w + 500x5 N/w 1/10/87	mose our fortes Transtulas			
Inst. Standard 600x6 M/w + 500x5 N/w 1/10/87				
INST. STANDARD GOOXE M/N + 500X5 N/W 1/10/87	Installed 8: 50x6 Tires Tubes Airglass nose fork			
159.0   84   150.0   15.0	- 8100x6 nose tire & tobe.			
XX   10A R/T				
XX   10A R/T	INST. STANDARD GOOXE M/W + 500X5 N/W 1/10/89			
No.   10A   Display   3.0   15.0   4   4   4   4   4   4   4   4   4				
XX 10A Display  XX 15.0 84  2.0 91.0 18  4.8 187.5 90  3.9 15.0 5  10x Value  1 ave Access  XX 17.0 5  XX 17.0 5  XX 17.0 5  XX 17.0 5  XX 17.0 7  XX 15.0 7				
No.   15.0   4   2.0   91.0   18   187.5   90   15.0   5   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   5   170.0   1		5.3	159.0	842.7
2.0 91.0 18 4.8 187.5 90 3.9 15.0 5 1ave Access NAV R40 OR Senverter (KN72) 1.3 159.5 206				45.0
3.9 15.0 5 1ux Value 1ave Access NAV R40 9R Senverter (KN72) 1.3 159.5 206	Table 1			182.0
1ux Value     .3     170.0     5       1ave Access     .3     17.0       NAV R40     5.2     15.0     7       9R Sonverter (KN72)     1.3     159.5     20		4.8	187.5	900.0
1ave Access NAV R40  OR Gonverter (KN72)  1.3   170.0   5  17.0   7  1.3   150.5   20  1.3   159.5   20		3.9	15.0	59.1
NAV R40  SR Gonverter (KN72)  1.3   159.5   200	lux Value	.3	170.0	51.0
9R Converter (KN72) 1.3   159.5   200	tave Access.		17.0	5.1
1.5 159.5 Zu		5.2	15.0	78.6
.4 22.7			159.5	208.9
	Att Filet Adaptor	- 4	22.7	9.1
		l	1	

# CESSNA AIRCRAFT COMPANY

# WICHITA, KANSAS

# Weight & Balance and Installed Equipment Data

CONTROL NUMBER	DATE	MODEL	REGISTRATION NUMBER	CESSNA SERIAL NUMBER
123263	04/14/31	TURBU STATIONAIR 6 II WITH NAV-PAC	No 46 LZ	U20606282

ITEM	WEIGHT	ARM	MOMENT
TANEARD AIRPLANE (EMPTY, DRY) COM	PUTED 1969.5	35.5	69917
NCLUDING ALL REQUIRED AND STANDARD EQUIPMENT ITEM	S		
NUSABLE FUEL 4.0 GALLONS	24.0	48.3	1152
ULL UIL 12.0 QUARTS	22.5		
TANDARD EMPTY WEIGHT	2015.0		70632
FTICNAL EQUIPMENT REPLACING OR IN ADDITION TO			
EGUIRED AND STANDARD EQUIPMENT ITEMS			
G-581G NIGHT BLUE-WAJOR	NEGL.		
T-581T JAY GRAY-ACCENT	NEGL.		
N-581W ALL-OVER VESTAL WHITE	NEGL.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ARPET BLUE-MONACO	NEGL.	11 100	
EAT INSERTS HANOVER BLUE FABRIC	NEGL.		
IDEWALLS BLUE VINYL	NEGL.		
EAT TRIM BLUE LEATHER	1.5	73.3	110
EAT BELTS BLUE	NEGL.		
LACK UPPER INSTRUMENT PANEL	NEGL.		
ASIC AVIONICS KIT	8.2	58.8	482
5 4/6 413854 720 CCH 200 NAV VER/LUS	8.1	13.0	105
	8.3	24.1	193
THE THE SPENDER PRASON WIGH ALTITUDE	3.7	21.9	81
STATE AND DIRECTIONAL	9.6		78
NEICATOR, ECONOMY MIXTURE	- 5	8.0	5
VOICATOR, TRUE AIRSPEED (EXCH)	· 1	17.0	2
ETECTORS, NAVIGATION LIGHTS	NEGL.		
LIGHT CONTROLS, DUAL	6.7	14.1	94
CUND SERVICE PLUG RECEPTACLE	2.2	4.5-	10-
EATING SYSTEM, STALL WARNING & PITOT (EXCH.)	. 2	22.1	4
IGHTS, COURTESY	. 5		31
CATOR BEACON	3.5	157.6	
IM ANTENNA AND NAV COUPLER		36.2	
O NYC PIESSA VERYLOS (END UNIT)		13.0	105
HE STADESTERS PAASE AS SHE INCL. VOR/ILS (EXCH)	4.3	6-4-	
HARKER SEASON (FASSA)		99.1	277
TITUDE ENCODER, BLIND -1000 TO 30,000 FT. RANGE		15.5	
TERNATOR, 28-VOLT (95 AMP) (EXCH)	4.8	4.1-	20-
TITERY, 24-VOLT, HEAVY DUTY (EXCH)	2.0	3.0	6
CCK, DIGITAL QUARTZ READOUT (EXCH)	. 1-		2-
ITT-ICE SYSTEM, PROPELLER (ELECTRIC)	6.6	18.4-	121-
GHT, ICE DETECTION, LH	. 6	9.6	6
EPS AND HANDLES, REFUELING	1.7	18.5	31
GHTS, INSTRUMENT POST	. 6	18.5	11
GHTING, ELECTROLUMINESCENT	2.3	17.0	39
GHIS, STRUBE	3.1	43.4	135
LVE, OIL GUICK DRAIN	NEGL.		
YGEN SYSTEM 6-PORT	32.6	159.5	5200

MAKE: Cessna

MODEL: TU206G

SERIAL#: U20606282

**REGISTRATION: N6461Z** 

## **EQUIPMENT CHANGE**

Computing	New C.G.		
Item, Make and Model *	Weight	Arm	Moment
Previous information from W&B dated	2330.00	36.40	84812.00
EQUIPMENT ADDED			
SK174A Secondary Seat Stop	1.30	39.00	50.70
Pilot's Display	2.50	30.00	75.00
Laptop Computer	7.00	37.00	259.00
Track Air	3.00	30.00	90.00
Lidar Sensor	72.00	82.00	5904.00
Lidar Unit and Data Rack	180.00	112.00	20160.00
EQUIPMENT REMOVED			
Oilamatic Preoil System	-10.00	-10.00	100.00
^			
. 1) 0			
(1)			
24 //			
1/4// 01			
10			
V			
EW TOTALS	2585.80	43.10	111450.70

\* ITEM NUMBERS WHEN LISTED IN THE PERTINENT AIRCRAFT SPECIFICATION MAY BE USED IN LIEU OF "ITEM, MAKE, AND MODEL"

**Gross Weight:** 

3600

New empty weight:

2585.80

New Center of gravity: 43.10

Moment:

111450.70

Useful load:

1014.2

Eyfy Danah Af 3139887

9/1/2011

Ultracam X digital camera installed under GSM + SX includes GSM + SX includes GSM + SX includes GSM + SX includes GSM + SX arm | moment Weight Basic Empty Weight 36.4 848176 2330 24552 Useable Fnel 528 46.5 13690 Pilot + Camera Operator 370 37, 0 26240 Ultracam X as installed (SX unit) 82,0 320 25850 CDX unit with (2) DX'a 110,0 235 70,0 POS AV 13 910 37,0 222 1PX control unit MAX. ramp weight 3802 46.36 176276 T/o wt. ofter taki + runup allow 1 to 1.5 gal burn 3796

January 2008

Loaded grament Ranner C2 tank

176276.00
3941.68

Sportle WEIGHT AND BALANCE REVISION

> MAKE: Cessna MODEL: TU206G

SERIAL#: U20606282/

REGISTRATION: N8481Z N646/Z

#### **EQUIPMENT CHANGE**

Computing New C.G.			
Item, Make and Model *	Weight	Arm	Moment
EQUIPMENT ADDED			
Pilots Display	2.50	30.00	75.00
Laptop Computer	7.00	37.00	259.00
Track Air	3.00	30.00	90.00
Lidar Sensor	72.00	82.00	5904.00
Lidar Unit Data Rack and Pos AV	180.00	112.00	20160.00
Empty Weight	2330.00	36.40	84812.00
EW TOTALS	2594.50	42.90	111300.00

<sup>\*</sup> ITEM NUMBERS WHEN LISTED IN THE PERTINENT AIRCRAFT SPECIFICATION MAY BE USED IN LIEU OF "ITEM, MAKE, AND MODEL"

Gross Weight:

3800

New empty weight:

2594.50

New Center of gravity: 42.90 Moment:

111300.00

Useful load:

1205.5

Prepared By\_\_\_ Jeffrey Anderson A&P 3139987 Date 9/28/2010 WEIGHT AND BALANCE REVISION

MAKE: Cessna MODEL: TU206G

SERIAL#: U20606282

REGISTRATION: N8481Z N6461Z

### **EQUIPMENT CHANGE**

Con	nputing New C.G.		
Item, Make and Model *	Weight	Arm	Moment
EQUIPMENT ADDED			Moment
Pilot & Operator	370.00	37.00	13690.00
Fuel	528.00	46.50	24552.00
Pilots Display	2.50	30.00	75.00
Laptop Computer	7.00	37.00	
Track Air	3.00	30.00	259.00
Lidar Sensor	72.00	82.00	90.00
Lidar Unit Data Rack and Pos AV	180.00	112.00	5904.00
Empty Weight	2330.00	36.40	20160.00
	2330.00	36.40	84812.00
W TOTALS	3492.50	42.82	149542.00

\* ITEM NUMBERS WHEN LISTED IN THE PERTINENT AIRCRAFT SPECIFICATION MAY BE USED IN LIEU OF "ITEM, MAKE, AND MODEL"

Gross	Weight:
-------	---------

3800

New empty weight:

3492.50

149542.00

New Center of gravity: 42.82 Moment:

Useful load:

307.5

Prepared By	Jeffrey Anderson	A&P 3139987	Date	9/28/2010	
		710:1 3133307	- acc	3/20/2010	

# Intermountain Aerospace 1940 International Way Idaho Falls, Idaho 83402 208/524/2792 fax 208/524-2666

2 PER 107

N-

6461Z

CUSTOMER: RENO BROWN

P.O. BOX 4958

JACKSON, WY. 83001-4958

MAKE:

CESSNA

MODEL:

TU206G

SERIAL # U20606282

DATE:

11/13/03

WEIGHT	& BALANCE COM	MPUTATION		
	WEIGHT	ARM	MOMENT	
PREVIOUS CALCULATED	2385.87	37.67	89881.47	
INSTALLED/REMOVED			0,001.47	
KMA24	-1.7	13	-22.10	
ARGUS 5000	-4	13	-52.00	
KX155	-5.3	13	-68.90	
PM3000	-1.0	13	-13.00	
GMA340	2.0	13	26.00	
GNS530	8	13	104.00	
KI227 '	. 7	13	9.10	
TOTAL	2,384.57	37.69	89,864.57	
NEW ARM	37.69		03/004.37	
NEW MOMENT	89,864.57			
NEW USEFUL LOAD	1,215.43			
MAX RAMP WT.	3600.0_	1		
AUTH. SIG.	Class.	For		
AUTH. FAA REPAIR STATION #QI5R146N				

# Supplemental Equipment List

Page 1

N6461Z U20606282 Compiled 7/98

Includes all equipment installed 07/08/98, plus a compilation of previously installed Avionics.

Install.				Date
Date	Component	Arm	Weight	
		741111	vveight	Kemoved
07/08/98	Annunciator Panel 27-14 There	21	_	4-6-60
07/10/95	Vertical Card Compass (Precision)	21	0.5	1 105
09/11/90	KMA24 Audio panel	16	1.7	11/12/02
07/08/98	PM3000 ICS	16	0.8	112703
07/08/98	2000 Approach GPS Plus	14-	3.0	11/12/03
	MD41-624	17-	0.8	Renovalula
	Shadin ADC200	158	1.3	11/12/03 Renove 11/12,
	Antenna P/N16248-20	48	0.4	11/2/20
06/21/95	ATS8000 TCAD	13	3.5	11/2/03
	KA60 Antenna (Top)	34	5.5	
	KA60 Antenna (Bottom)	13	-	
	Dual Antenna Module	15	.5	
	Transponder Coupler	20	.5	
09/11/90	KX155 with GS	14	5.3	/ . )
	KN72 Nav converter	160	1.3	11/12/03
	CI 1125 Nav Ant Coupler	13	1.3	11/12/03
09/11/90	KX155 with GS	13	5.3	
	KI209 Nav indicator	16	1.2	
09/11/90	KR87 ADF	13	3.2	
	KA44B Antenna	40		
07/08/98	ARGUS 5000CE	<del>-14</del>	4.2	. / ).
07/08/98	WX500 StormScope	159	4.1	11/12/03
	Antenna	139	2.5	
07/08/98	400Hz Inverter	-23	2	
09/11/90	KT79 Transponder	-23 13	.2	
	SSD120-30/10 Encoder	13	3.4	
	KA60 Antenna	52	1.0	
09/11/90	KN62 DME	13	2.6	
03/11/30	KA60 Antenna	81	2.6	
09/11/90	KCS55A Compass system	01	- 1	
37,11,70	KI525A Indicator	1.4	26	
	KA51B Slave Accessoy	14 15	3.6	
	KMT112 Flux Valve	35	.2	
	KG102A Remote Gyro		.3	
- 1	NOTOZA Remote Gyro	157	4.7	
			1	
-			1	

Install.				Date
Date	Component	Arm	Weight	Removed
	System 55 Auto Pilot / Electric trim			
07/08/98	Programmer	14	2.7	
09/11/90	Roll Servo	58	2.7	
09/11/90	Pitch Servo		2.9	
09/11/90	Trim servo	187	2.9	
09/11/90	Altitude transducer	175	2.9	25.
09/11/90		167	.2	
07/08/98	Turn Coordinator	15	1.8	
07/08/98	Altitude Preselect	16	.9	
??/??/??	Electric Attitude Indicator	16	-	
07/08/98	SC5 Digital Clock	17	.6	
09/11/90	KA33 Avionics Blower	9	2.0	
07/08/98	Astron 28/14 converter	-23	2.0	
07/08/98	Emergency Buss Block	-15	-	
			1	
07/08/98	RCA 22-7 Standby Vacuum AI	16	2.2	
07/08/98	RCA 11A-8 Standby Vacuum DG		2.3	
07/08/98	RCA 11A-8 Standby Vacuum DG	15	2.8	
	SigmaTek Gage units			
07/08/98	Left Fuel - 169CL-62-TD2300	17	-	
07/08/98	Right Fuel -169CL-61-TD2300,	17	-	
07/08/98	Ammeter - 169CL-7-TD2300	17	-	
07/08/98	Vacuum - 169CL-4-TD2300	17		
07/08/98	transducer - S18017-003.	12	-	
	Electronics International Instruments			
07/08/98	R1- Digital tach	17	.6	
07/08/98	OPT1- Digital Oil Temp/Pressure	17	1.4	
07/08/98	M1- Digital MAP	17	.8	
07/08/98	C1 - Digital CHT	17	.8	
07/08/98	FP5L - Fuel Flow	17	1.8	
07700750	201B transducer	-24	1.6	
07/08/98	VA1A Digital Volt/Ammeter	17	.6	
07/08/98	AV17 Voice annunciator	7	.6	
	The state of the s	ř.	.0	
	Insight GEM			
06/28/95	Display unit	15	-	
06/28/95	EGT Probes	-21	-	
			1	

Install. Date	Component	Arm	Weight	Date Removed
06/28/95	CHT Probes	-21	_	
06/28/95	OAT Probe	10	-	
07/08/98 07/08/98	RMD Aircraft Lighting INC. wing tips Precise Flight Model 1210 Flasher	34 26	.6	
07/06/96	Frecise Flight Woder 1210 Flasher	20	.0	
07/08/98	AeroEnhancements Glare Shield lights	12	-	
07/08/98	Avionics Split Buss Relay	14	-	
07/08/98	Paramount Light Panels	20		
07/08/98	Trtansistor Light Dimmer Block	-22	.5	
07/08/98 07/08/98	Prop Ice Control Unit Installation Harness for Avionics	-14	-	
	Date: Gross Wt. Empty Wt. Moment. Useful Load  Approved by  Moody Aviation			
117/03	TO DOCUMENT ROSEN SUN VISOR PREVIOUS INSTALLATION IAN S NO CHANGE TO WEIGT & BALANCE.	5457 570#\$1	TEN) 93694NM	



# MAJOR REPAIR AND ALTERATION

	For FAA Use Only
OMB No. 2120-0020 2/28/2011	
Form Approved	Electronic Tracking Number

(Airframe, Powerplant, Propeller, or Appliance) Administration INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a)) Nationality and Registration Mark Serial No. N6461Z 20606282 1. Aircraft Make Model Series Cessna **TU206G** 206 Address (As shown on registration certificate) Name (As shown on registration certificate) Address 523 Wellington Way 2. Owner City Lexington State KY GMR Aerial Surveys Inc DBA Zip 40503 Country USA 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Unit Make Mode! Serial No. (As described in Item 1 above) **AIRFRAME** 1 **POWERPLANT PROPELLER** Type **APPLIANCE** Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency U. S. Certificated Mechanic Manufacturer Robert S Ringel Address 1620 Cambridge Avenue Foreign Certificated Mechanic C. Certificate No. Certificated Repair Station City Sheboygan State W 53081 Country USA Certificated Maintenance Organization 2722551 Zip I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. Signature/Date of Authorized Individual Extended range fuel per 14 CFR Part 43 App. B 7. Approval for Return to Service Pursuant to the authority given persons specified below, the unit identified in item 5 Administrator of the Federal Aviation Administration and is was inspected in the manner prescribed by the Rejected ✓ Approved FAA Flt. Standards Persons Approved by Canadian Maintenance Organization Manufacturer Department of Transport Inspector BY Other (Specify) Inspection Authorization Repair Station **FAA Designee** 

5/26/14

Signature/Date of Authorized Individual

Certificate or

2722551

Designation No.

-		-	-	-		-	
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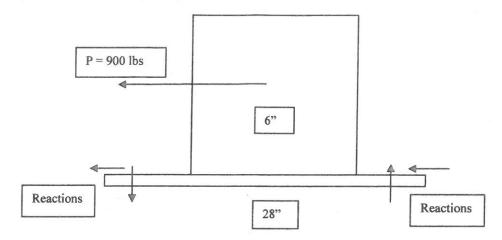
Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Acco	mplished attach additional	sheets. Identify	with aircraft nation	onality and registrat	ion mark and dat	e work comple	eted.)
5 5 C C C C C C C C C C C C C C C C C C			A SECULAR SECULAR	N6461Z		August 26	, 2014
				Nationality and R	egistration Mark		Date
This aircraft has an existence of the fuse STC SA4004SW and From the fuse STC SA4004SW and From the fuse of the fu	elage and the a AA Form 337 of the aircraft. A E-SA-2000 Revidated 8/25/14. security of ins	associated s dated April 2 ttached is FA v IR, dated t " System an	tructural reint 0, 2007. This AA Form 8110 8/25/14.", and d installation	orcement. The s report will sub- 0-3 statement or stress Report s shall be inspe	installation is stantiate the e f compliance, t Cessna 206 cted for confo	previously equipment in "Cessna 20 N6461Z Instructory to the	approved via nstallation 06 N6461Z stallation Repor installation
			end			*******	
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		102					
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		✓ A	dditional Sheets	Are Attached	I		

#### 4.4 ZI Mount Attachment

The ZI Mount and its assembly are installed with six M6 fasteners. The total weight of the unit is 90 lbs. Note that there is misc equipment attached to the top of the unit, with a total weight of 10 lbs. The bolts will react the forward loading in shear split between the six attachments. The kick load will be reacted as a moment/couple. The aft attachments will be critical for shear and tension.

P = (90+10#)(9G) = 900 lbsHeight of the center of gravity is assumed to be 6 in



Free Body Diagram; VQ480i Attachment

Applied loading

Pshear = (900#)/6 fast = 150 lbs

Ptension = (900#)(8")/(28"\*2fast) = 128 lbs

Fastener Allowables

Shear = 5,750 lbs

Tension = 6,500 lbs

MS = High

## Ref spec sheet

### 5 Conclusion

This engineering is acceptable for all loading applications. The designs comply with the appropriate design, construction and structural strength requirements imposed by the aircraft's certification basis.

Pshear = 1575#/12 fast = 132 lbs Ptension = 1575#(10")/(30" 4 fast) = 132 lbs

Allowable Loading Pshear = 3,680 lbs Ptension = 4,080 lbs

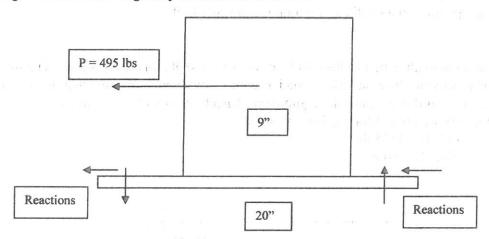
MS = High

#### 4.3 Orion Laser Attachment

The Orion Laser and its assembly are installed with four AN4 fasteners. The total weight of the unit is 55 lbs. The bolts will react the forward loading in shear split between the four attachments. The kick load will be reacted as a moment/couple. The aft attachments will be critical for shear and tension.

P = 55#(9G) = 495 lbs

Height of the center of gravity is assumed to be 9 in



Free Body Diagram; VQ 820 (Bathy) Attachment

Applied loading

Pshear = 55#(9G)/4 fast = 123 lbs

Ptension = 55#(9G)(9")/(20"\*2fast) = 111 lbs

Fastener Allowables

Shear = 5.750 lbs

Tension = 6,500 lbs

MS = High

Ref AN spec sheet

$$H = 20$$
" $(3/4) = 15$  in

The moment is reacted as a couple, which is the fore aft distance between the AN5 bolts attaching the base plate = 24"

Pshear = 1080#/4 fast = 270 lbs Ptension = 1080#(15")/(24" 2 fast) = 337 lbs

Fastener Allowables

Ref AN spec sheet

Shear = 5,750 lbs Tension = 6,500 lbs

MS = +High

Therefore this engineering is acceptable.

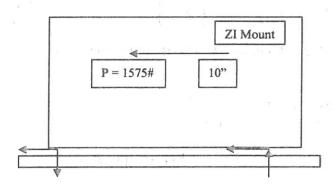
#### 4.2 -13 Base Plate

The -13 Base Plate is a 6061-T651 aluminum plate. The Base Plate is attached to the floor with twelve AN4 bolts.

The -13 Base Plate will carry a total weight of 175 lbs

The total loading of 175 lbs will be critical for the 9G forward loading. The load will be reacted in shear and a kick load as a moment/couple. Assume that the load is applied at ¾ of the height of the equipment. Check the AN4 bolts. The aft attachments are critical for tension and shear.

$$P = 175\#(9) = 1575 \text{ lbs}$$
  
 $H = 15\text{''}(3/4) = 10 \text{ in}$ 



Free Body Diagram; Base Plate

The moment is reacted as a couple, which is the fore aft distance between the AN4 bolts attaching the Sensor plate = 30"

## 4 Structural Substantiation CE-SA-1000, Cessna Stationair Bathy Instl

#### 4.1 -11 Sensor Plate

The -11 Sensor Plate is a 6061-T651 aluminum plate. The Sensor Plate is attached to the existing nutplates at four locations with AN4 bolts. The Sensor Plate will carry a total weight of

#### Equipment:

Orion Laser Head	55.1	
Orion PDU	14.3	
Headwall Hyperspec SWIR	edi	AND SECTOR
Headwall Hyperspec VNIR	8	
Headwall HDPU		
Headwall Cables	5	
8020 Frame	13.5	
Orion Brackets	1.22	
Hyperspectral Mount	2.59	
Mount Baseplate	3.8	

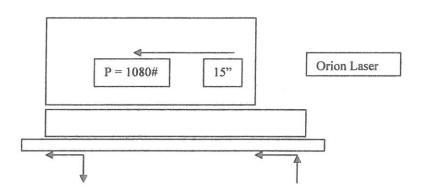
Structure:

Total

120 LBS

The total loading of 120 lbs will be critical for the 9G forward loading. The load will be reacted in shear and a kick load as a moment/couple. Assume that the load is applied at ¾ of the height of the equipment. The aft attachments are critical for tension and shear.

$$P = 120\#(9G) = 1080 \text{ lbs}$$



Free Body Diagram; Sensor Plate

$$P = 120 \# (9G) = 1080 \text{ lbs}$$

## 2 Scope

This report will analyze the Orion camera and equipment installation into a Cessna Stationair aircraft. The aircraft is a Cessna model TP206E, serial number P20606282. The aircraft has an existing modification for camera installations. The modification includes a sensor port cut into the lower portion of the fuselage and the associated structural reinforcement. The installation of the camera hole is previously approved via a STC.

This report will substantiate the equipment installation currently being used on the aircraft.

#### 3 References

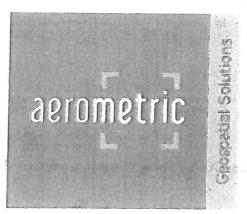
MMPDS, Metallic Materials Properties Development and Standardization Rourks Equations for Stress and Strain 7<sup>th</sup> edition TCDS A4CE Cessna Stationair CAR3,

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7.1.44

5		Conclusion		7
	4.4	VQ480i Attachment	Error! Bookmark not defined.	
	4.3	VQ 820 (Bathy) Attachment	6	
	4.2	-13 Sensor Plate	5	
	4.1	-11 Base Plate	4	
4		Structural Substantiation CE-SA-1000, C	Cessna Stationair Bathy Instl	4
3		References		3
2		Scope		3
1		Table of Contents		2
-		lable of Contents		



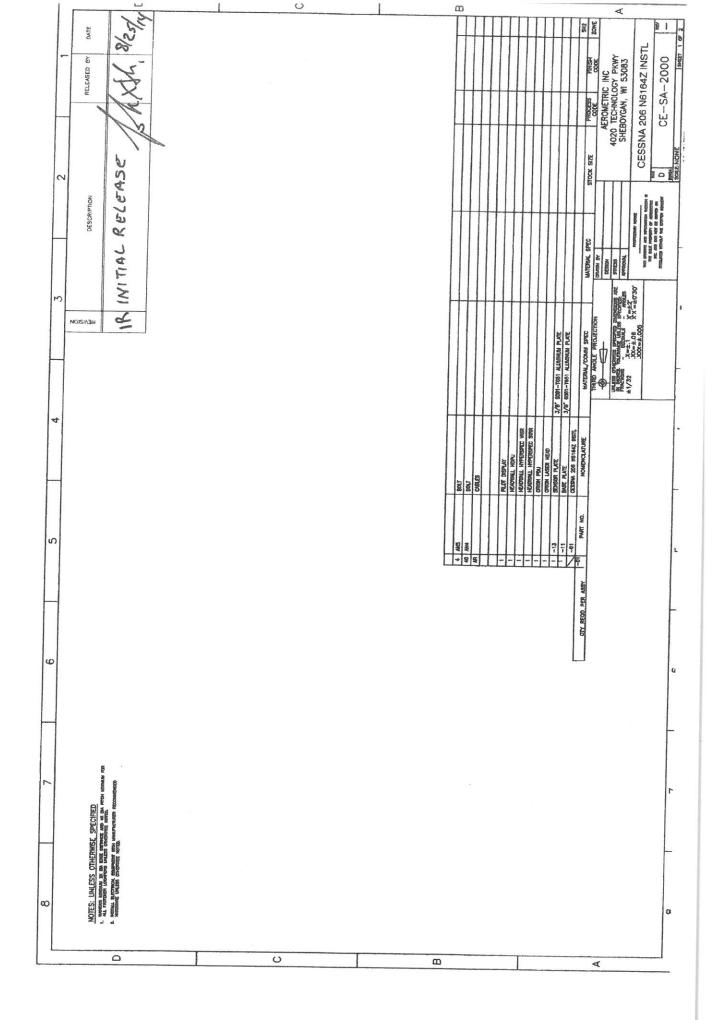
# CE-SA-2000SR

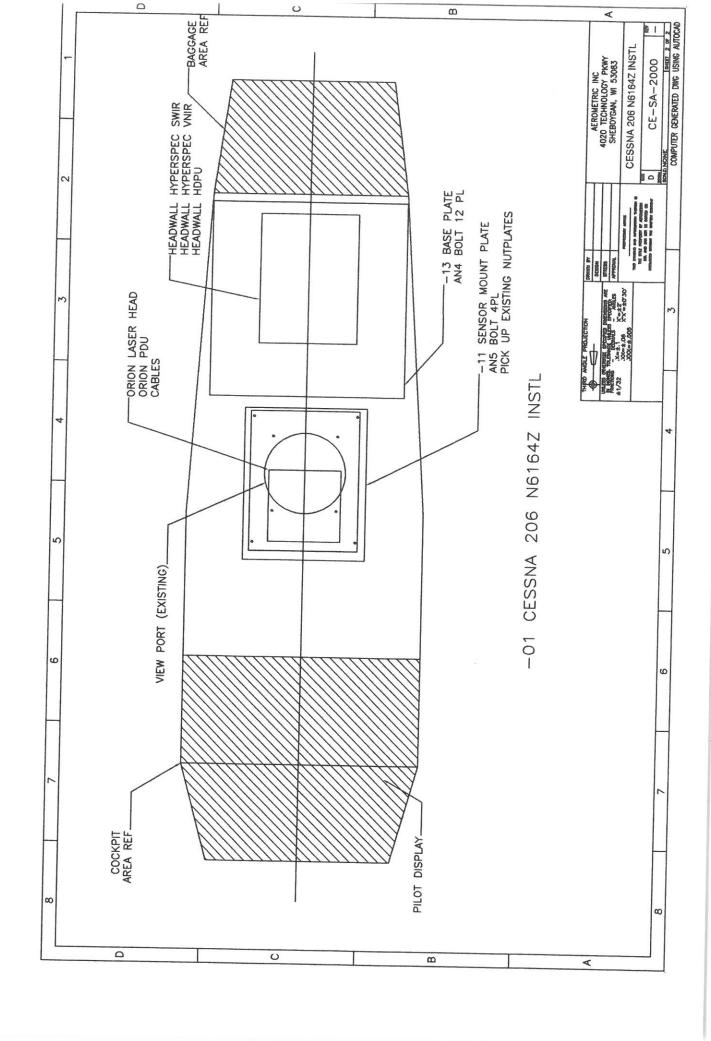
# Stress Report Cessna Stationair N6164Z

Rev -Date: 8/25/14

Prepared By:

John X. Schober Jr Structural DER





	U.S. DEPARTMENT OF TRA				DATE					
STATEMENT OF COMPL	FEDERAL AVIATION ADM LIANCE WITH THE FE	EDERAL	AVIATION REGULATI	IONS	August 25, 2014					
		CRAFT (	COMPONENT IDENTIFICA	TION						
MAKE	MODEL NO.	TYPE (Air	rplane, Radio, Helicopter, etc.)	NAME OF	APPLICANT					
Cessna	TU206G	The formation of the fo								
IDENTIFICATION	LIST OF DATA									
Drawings:		-	TITLE							
CE-SA-2000, Rev IR Dated 8/25/14	Cessna 206 N6164Z Instl									
Reports: CE-SA-2000SR, Rev - Dated 8/25/14	, Rev - Stress Report Cessna 206 N6164Z Installation									
NOTES:  1. This approval is for structural aspects only and is only for the engineering designates, not installation approval.										
PURPOSE OF DATA  In support of a major	-Itstion to Casena	TT 1206	C CAI DOCCOCOO							
In support of a major APPLICABLE REQUIREMENTS (List s) FAA CAR Part 3, Amendmen Paragraphs 3.171, 3.172, 3.295, 3.296, 3.301, 3.3	specific sections) ent 1 through 8 per TCE 3.173, 3.174, 3.181, 302, 3.305, 3.306, 3.38	DS A4CE 3.182, 3 86	E Rev. 48, 3.183, 3.184, 3.186, 3.							
of appointment under Part 183 chave been examined in accordan Federal Aviation Regulations.  I (We) Therefore	Recommend approval of these data									
	ove these data			1						
SIGNATURE(S) OF DESIGNATED E	MGINEERING REPRESENTATI	IVE(S)	DESIGNATION NUMBER(S)		CLASSIFICATION(S)					
Sh	John,".		DERT-410129-CE	Siri	uctures					
John X. S	Schober Jr.									

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U.S. Departr	

# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No.2120-0020 2/28/2011	Electronic Tracking	Numbe
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For FAA Use Only

Federal Aviation				•	,		, , ,		,				
				See Title CFF s report is re	R §43. quired	.9, d b	Part 43 Ap y law (49 U	pendix B, a J.S.C. §447	and AC 43. 01). Failur	9-1 (or e to re	subsection	quent revision thereof) in result in a civil penalt	
each such violation (49 U.S.C. §46301(a)).  Nationality and Registration Mark N6461Z						Serial No. U20606282							
	Make Cess	na						Model TU20	6G			Series 206	
2. Owner	2. Owner  Name (As shown on registration certificate) GMR Aerial Surveys Inc DBA Photo Science								s (As shown ss 2670 Wi	lhite			
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				3	. For	F۸	A Use On	ly					
4. Ty	pe			5.	Unit	lde	entification	n					
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		APPLIANCE		footune					-				
			IVIATIO	facturer									
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Frank	fort		State K	y	-	+	ertificated Re						
40601		Country L	ntry USA				Certificated Maintenance Organization				3139987		
information	n furnished	aue III accc	nuance will	de to the uninthe the requirer	ments	10	Part 13 of	the IIC E	and describederal Avia	ed on tion Re	the rev	verse or attachments	
ended range fu CFR Part 43 Ap	pel per pp. B	Signat	ere/Date of	Authorized I	0	1	col				9-1	-2011	
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FAX 303 793-0493

1 800 343-7623

WEB: http://www.oilamatic.com

## FACSIMILE COVER SHEET

TO: Flight Fixins

FAX NO: 502 564-0174

ATTN .: Jeff

FROM: GEORGE McCRILLIS

DATE: 7-7-11

REF.: All paperwork for Cessna T206G

TOTAL NO. OF PAGES INC. COVER: 13

Jeff,

Here are the Instructions for the Cessna T206G.

I'll call later with details for the parts you need.

Best fortunes,

George McCrillis, Pres.

Oilamatic, Inc. 1 800 343-7623 OILAMATIC, INC. PO BOX 5284 ENGLEWOOD, CO 80155-5284

ENGINE PREOILER CESSNA 206 REVISION # 1

FAA APPROVED

AIRPLANE FLIGHT MANUAL SUPPLEMENT

FOR

CESSNA MODEL 206, P206 A, B, C, D & E plus U206 A, B. C, D, E, F, G & 206H

AND

CESSNA MODEL TP206A, B, C, D & E plus TU206A, B, C, D, E, F, G & T206H

WITH

OILAMATIC ENGINE PREOILER

REGISTRATIO	ON NO.	
SERIAL NO.		

This supplement must be attached to the Cessna Model 206 approved Flight Manual when an OILAMATIC Engine Preciler System has been installed in accordance with STC No. SA00124DE

The information in this document supplements or supersedes the basic manual only in those areas listed. For Limitations, Procedures and Performance Information not contained in this supplement, consult the basic Airplane Flight Manual.

FAA APPROVED: Ylogen a. Caldwell

Ronald F. May, Manager
Denver Aircraft Certification Office
Northwest Mountain Region
Federal Aviation Administration

FAA APPROVED DATE: February 14, 2001

Page 1 of 3

OILAMATIC, INC. PO BOX 5284 ENGLEWOOD, CO 80155-5284

ENGINE PREOILER CESSNA 206 REVISION # 1

SECTION I. <u>LIMITATIONS</u>

- 1. Preoiler use is limited to ground operation when engine is not running. Operation in flight is prohibited.
- 2. For turbo charged models, terminate preciling as soon as engine oil pressure stabilizes. Do not initiate preciling again until the engine is operated to scavenge oil from the turbo-charger. Continued preciling will cause excess oil to leak from the turbo-charger compressor and turbine seals.
- 3. Avoid prolonged Preoiler operation, particularly in colder temperatures, unless external power for battery charging is available. If temperature is below +40 deg. F, limit continuous Preoiler operation to 2 (two) minutes followed by a 5 (five) minute cooling period.
- 4. Recommended engine oil grades and engine pre-heating procedures must be adhered to. Pre-heating of Preoiler must be included in engine pre-heating. Note: Depending on oil grade used, operating Preoiler at cold temperatures may cause excess electric current draw and cause Preoiler power fuse to blow. In this event, replace fuse and pre-heat as recommended before attempting further preoiling.
  - 5. The following placards are installed:

DO NOT OPERATE PREOILER WHILE ENGINE IS RUNNING

and

PREOILER

(Control Switch)

(Operating Limitation: Installed adjacent to control switch)

# SECTION II. NORMAL PROCEDURES

#### 1. GENERAL DESCRIPTION

The purpose of the Oilamatic Engine Preciler is to lubricate the internal parts of the engine before starting. An electric motor driven pump uses aircraft battery power to draw lubricating oil from the engine sump and inject it into the engine through the oil filter or filter screen. Oil pressure during preciling is limited by the engine's oil pressure relief valve. A check valve in the preciler output hose prevents oil back flow through the pump when the engine is running. A dash mounted Control Switch is used to operate the Preciler. Preciler use is optional: the engine may be started at any time without preciling.

OILAMATIC, INC. PO BOX 5284 ENGLEWOOD, CO 80155-5284

ENGINE PREOILER CESSNA 206 REVISION # 1

2.	AMENDMENT TO	NORMAL PROCEDURES	STARTING	<b>ENGINE</b>
	CHECKLIST WITH	ENGINE PREOILING		

-- Complete first checklist items.

JUST PRIOR	TO "STARTER	ENGAGE",	INSERT	THE
<b>FOLLOWING</b>	STEPS:			

 PREOILER	ON
 Oil Pressure	Stabilized
 PREOILER	OFF

CAUTION: FOR TURBO CHARGED MODELS, TURN PREOILER OFF AS SOON AS OIL PRESSURE STABILIZES. CONTINUED PREOILING WILL CAUSE OIL TO LEAK FROM TURBO-CHARGER.

	Starter		<b>ENGAGE</b>
--	---------	--	---------------

Complete remaining checklist items.

#### AFTER ENGINE START:

Check for stable oil pressure 30 seconds after engine start. If pressure is out of limits, shut down engine and investigate.

If engine does not start within 10 seconds, prime and repeat start procedure. Further Preoiling is not required.

SECTION III. EMERGENCY PROCEDURES

No Change

SECTION IV. PERFORMANCE

No Change

SECTION V. WEIGHT AND BALANCE

Adjust as follows:

	Weight of unit	X Arm	=	Moment
Pump & Motor Contactor	5.4 pounds 0.9 pounds			(minus) 151.2 lb. in (minus) 21.6 lb. in

FAA APPROVED DATE: February 14, 2001

#### Hotied States of America

# Aspendment of Transportation—Federal Aviation Administration

# Supplemental Type Certificate

Number SA00124DE

This certificate, issued to

Ollamatic, Inc. P.O. Box 5284 Englewood, CO 80155

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3 of the Civil Air Regulations.

Original Product—Type Certificate Number:

A4CE

Make:

Cessna Aircraft Company

Model:

SEE ATTACHED APPROVED MODEL LIST

Description of the Type Design Change:

Installation of Oilamatic Preciler system in accordance with FAA approved Oilamatic, Inc. Drawing List No. 206400, initial release, dated April 1, 1994, or later FAA approved revision.

## Limitations and Conditions:

- 1. FAA approved Airplane Flight Manual Supplement Rev. No. N/C, dated August 24, 1994 or later FAA approved revision is required.
- 2. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthlness of that aircraft.
- 3. A copy of this Certificate and Flight Manual Supplement must be maintained as part of the permanent records for the modified aircraft.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application:

August 4, 1994

Date reisoued.

Date of Wsuanos:

September 6, 1994

Date amended:

February 14, 2001

By direction of the Administrator

Koger a Caldler

Roger A. Caldwell (Signature) Acting Manager

Denver Aircraft Certification Office

Northwest Mountain Region, Denver, Colorado

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

Mutted States of America

Department of Oceneportation—Federal Aviation Administration

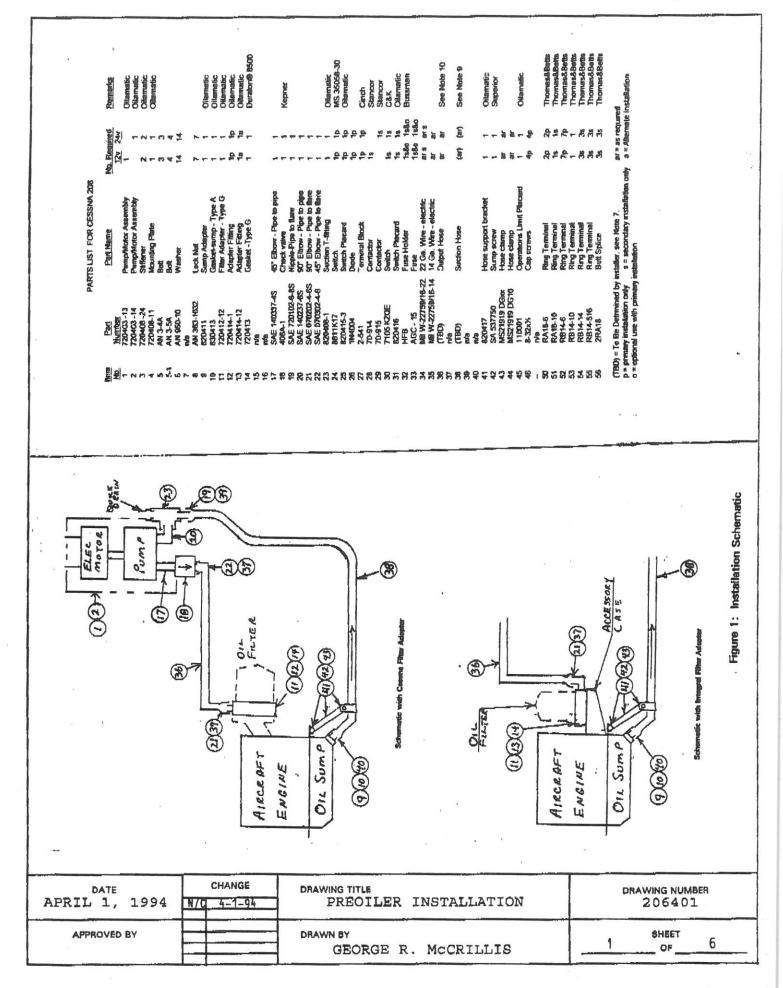
# Supplemental Type Certificate (Continuation Sheet)

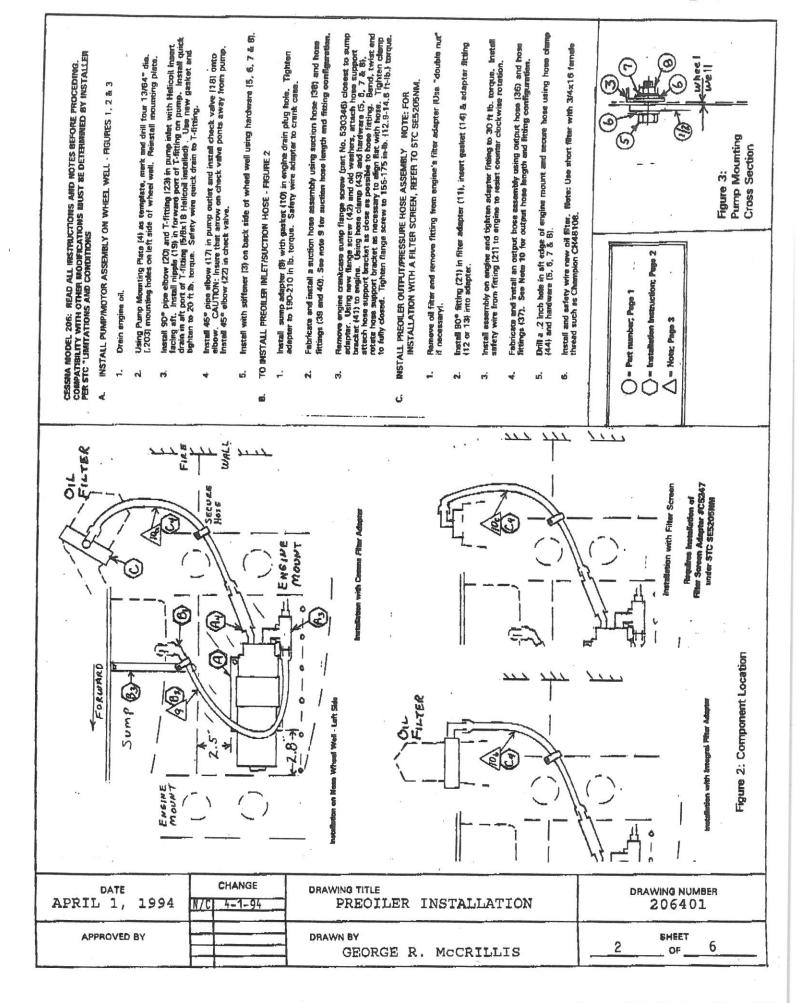
Number SA00124DE

## APPROVED MODEL LIST

P206C U206E T206H TU2 P206D U206F TU20 P206E U206G
--

830413	01-16-93	N/C		Gasket - Type A	
820417	03-01-90	N/C		Hose Support Bracket	
820416	09-01-90	N/C		Placard - Switch	
820415-3	04-01-94	N/C		Placard - Switch	
820411	02-01-88	В	03-01-90	Sump Adapter	
820408-4	04-01-94	N/C		Suction T-fitting	
820408-1	04-01-94	N/C		Suction T-fitting	
720414-12	05-01-93	A	04-01-94	Adapter Fitting	
720414-1	06-01-91	A	04-01-94	Adapter Fitting	
720413	01-19-93	N/C		Gasket - Type G	
720412-12	01-18-93	N/C		Filter Adapter - Type G	
720408-24	04-02-94	N/C		Stiffener	
700408-11	05-01-94	N/O		Mounting Plate	
720407-1	09-05-90	8	04-14-94	Brace	
720403-12/13/14	09-05-90	С	01-04-94	Oil Pump /Motor Assembly	
110001	09-01-90	N/C		Placard - Operation Limits	
206401	04-01-94	N/C		Preoiler Installation	
206401L	11-01-00	N/C		Preciler Installation	
				Action Taken by: FAA, Denver Aircraft Certification Office, ANM-100D	
				Approves Data  Accepts Approval Approves Recommendation For Comments See FAA Letter Dated  This Data Has Been Added To Our Files	
				This Data Has Been Added To Our Files Ref: STC#SA00124-DE ACTIVITY  Recency, Callely 02/14/01  Bingineer Data	
NUMBER	DATE	LET	DATE	TITLE	
DATE APRIL 1, 1994	CHANGE NºC APRIL 1, 1994 1 NOV. 01, 2000	DRAWI	NG TITLE PREOILER I	DRAWING LIST DRAWING NUMBER 206400	
APPROVED BY		DRAV	GEORGE R. McCRILLIS SHEET  OF 1		





# NOTES for Cessna 206. Unless otherwise indicated:

- Do not scale these drawings for dimensions.
- Break all sharp edges .003 .005 and remove all burns and slivers.

ri

4

Dimensions are in inches and talerances are as shown below.

Tolerances decimals

XXX ± .005 XX. ± .03

angles ± 1°

Apply two coets of zinc chromate primer to all exposed steel - except stainless steel - and altaminum surfaces of fabricated parts not praviously plated or anodized, respectively.

Complete installation is accomplished using standard practices. There are no special or unique procedures, techniques or fabrications required.

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4

Certification basis for this aircreft is CAR 3.

6

manufacturers' hoses and hose fittings meeting this standard are authorized. Hose fittings to Hydraulic hoses most meet the requirements of TSO C53a Type C (Fire resistant). All be installed per hose manufacturar's specifications.

A. Hostes with slip on silicone-fiberglass FIRE SLEEVE

Aeroquip 303, 666, or 701 with FIRE SLEEVE added Stratoflex 111F, 124F, 156F OR 170F B. Hoses with integral silicone fire protection cover

Stratoffax 124H, 124J or 156H

Astroquip AE401 or AE456

AN, MS, SAE or equivalent steel fittings are authorized. Use sealant on pipe threads only.

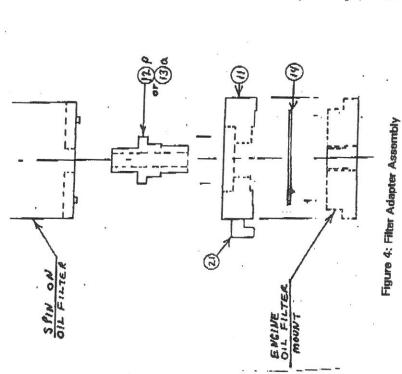
Section inlet hose - 1/2 inch (-8). Length  $\approx 24$  inches as factory ordered with a 45° elbow fitting to sump and a straight fitting to pump.

a. With Ceasna edapter (#1250922-1), Length = 29 inches; Straight fitting on both ends. Pemp output hose - 3/8 inch (-6). Length as factory ordered for following configurations: 5

c. With filter screen adapter, [STC SES205NM], Length = 29 inches with straight fitting With Integral adapter, Length = 29 inches; Streight fitting on both ends.

to pump and 45° fitting to filter screen adapter.

All wire to be per MIL-W-22759/16. Route wire with existing bundles where possible. Instell hardware furnished with each component. Secure all wires and fuse holder with Ty-wreps. all switches and fuse holders in accordance with the manufacturer's instructions using 7



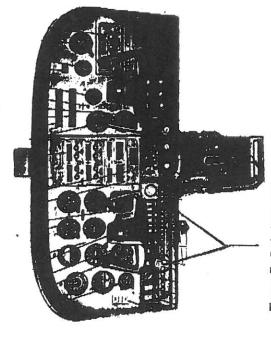
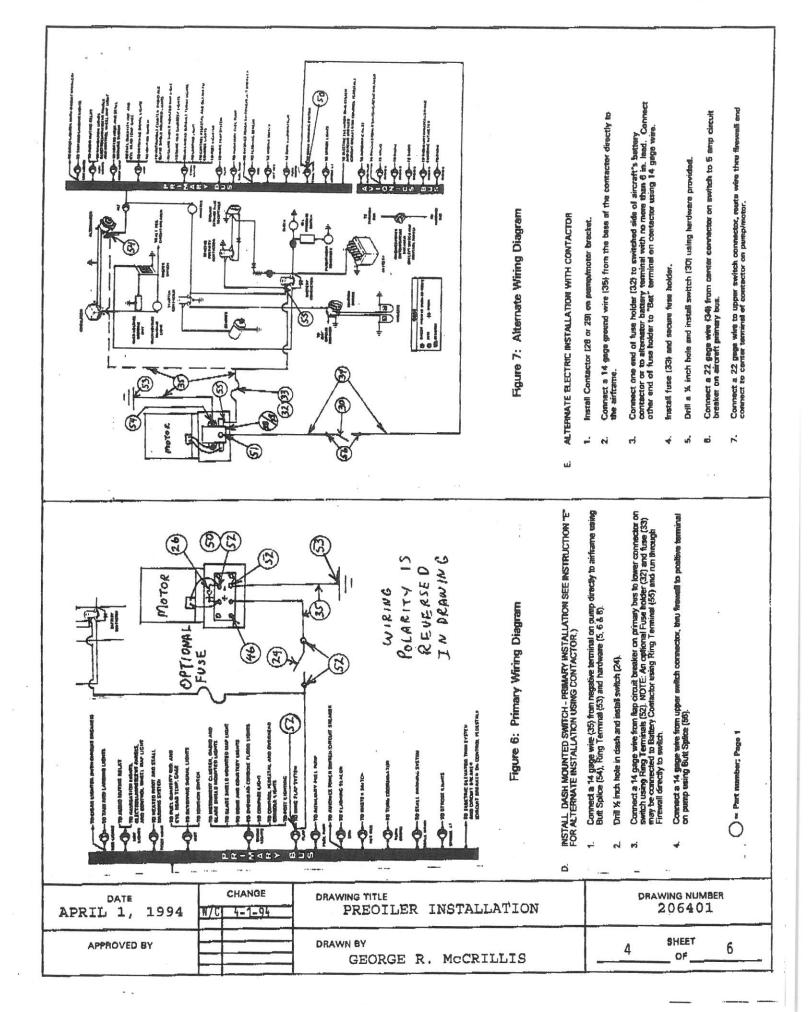


Figure 5: Switch Mounting Locations

APRIL 1, 1994	N/C 4-1-94	PREOILER INSTALLATION	DRAWING NUMBER 206401
APPROVED BY		GEORGE R. MCCRILLIS	3 SHEET 6



- F. PREPARE AIRCRAFT FOR OPERATION AND OPERATE PREDILER.
  - 1. REFILL ENGINE WITH OIL.
  - 2. Insert Approved Airplane Filght Manual Supplement into approved Flight Manual.
  - 3. Install Operations Limitations Placard (45) adjacent to switch.
  - 4. COMPLETE WARRANTY CARD AND RETURN TO OILAMATIC, INC.

## G. PREOILER FUNCTIONAL TEST

- 1. Turn eircraft master switch "On" and turn Preoiler switch "On".
- Check engine oil pressure gage for rise indicating Preoiler has primed and engine is being preoiled.
- If Preciler fails to prime within 30 seconds, turn Preciler "Off", open bleed valve
  at pump output ½ turn, turn Preciler "On" until it primes and oil flows from
  bleed valve (use container to catch oil), turn Preciler "Off", retighten bleed valve
  and operate Preciler until engine oil pressure rises.

CAUTION: FOR ENGINES WITH TURBOCHARGER, TERMINATE TEST AS SOON AS OIL PRESSURE STABILIZES. CONTINUED PREOILING WILL CAUSE OIL TO LEAK FROM TURBOCHARGER SEALS!

- 4. Check installation for oil leaks.
- Refer to "Flight Manual Supplement" for Preciler use prior to engine start.

#### H. PREOILER MAINTENANCE

- At each inspection, check hoses, fittings and pump for leaks and for signs of distress.
- 2. AVOID SPRAYING HIGH PRESSURE WATER OR CLEANING SOLVENTS DIRECTLY ONTO PUMP OR ELECTRIC MOTOR.

DATE	CHANGE	DRAWING TITLE PRECILER INSTALLATION	DRAWING NUMBER
APRIL 1, 1994	N/C 4-1-94		206401
APPROVED BY		GEORGE R. MCCRILLIS	5 SHEET 6

63
US Department
of Transportation
Federal Aviation
Administration

#### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

orm Approved MB No. 2120-0020 1/30/2007	Electronic Tracking Number
---	----------------------------

Persons Approved by Canadian

Department of Transport

Other (Specify)

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a)) Nationality and Registration Mark Serial No. 20606282 1. Aircraft Name (As shown on registration certificate) Address (As shown on registration certificate)
Address 573 Wellington Way GMR Aprial Surotys Irc. 2. Owner 3. For FAA Use Only 4. Type 5. Unit Identification Repair Alteration Unit Make Model Serial No. (As described in Item 1 above) **AIRFRAME**  $\checkmark$ **POWERPLANT** Continental Motors TSIO-520-M 830711-R PROPELLER APPLIANCE Manufacturer 6. Conformity Statement A. Agency's Name and Address B. Kind of Agency RAM Aircraft. Limited Partnership U. S. Certificated Mechanic Manufacturer Address 7505 Karl May Drive Foreign Certificated Mechanic C. Certificate No. City Waco State Texas Certificated Repair Station Airframe Class III, Powerplant Class I Country United States Zip 76708 Certificated Maintenance Organization VA1R551K I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. Signature/Date of Authorized Individual Extended range fuel per 14 CFR Part 43 App. B James Colson 6/21/13 7. Approval for Return to Service Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ✓ Approved Rejected FAA Flt. Standards

Maintenance Organization

Inspection Authorization

Manufacturer

Repair Station

Signature/Date of Authorized Individual

James Colson 6/21/13

FAA Form 337 (10-06)

BY

Certificate or

Designation No.

Inspector

FAA Designee

VA1R551K

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
N64612 6/21/13
Nationality and Registration Mark Date
Engine modified per Dwg. 1157, Rev. AP, dated09/09/09 I/A/W STC SE3630SW-D.
Installed Slick pressurized magnetos p/n 6320 per Dwg. 1068, Rev. N, dated 1/02/07 I/A/W STC SE4651SW-D. Installation mechanic must complete Block 1 and 2 on reverse side and mail one copy to the Federal Aviation Administration, Aircraft Registration Branch AFS-750, P.O. BOX 25504, Oklahoma City, Oklahoma 73125.
Negligible weight and balance change.
Customer furnished with FAA approved Overhaul and Parts Manual Supplements with instructions for continued airworthiness for all alterations.
Pertinent details of the above installations are on file under project no. 6783.
End
E11u
Additional Sheets Are Attached

### US Department of Transportation Federal Aviation Administration

# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved DMB No. 2120-0020	Electronic Tracking Number
11/30/2007	

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

		0	( //											
Nationality and Registration Mark  1 Aircraft					Serial I	No.	120	60	6282					
1. Aircraft	CESSNA							Model	Vö	206 (	G	Series 206		
Name (As shown on registration certificate)  OMR AERTAL SURVEYS									Address (As shown on registration certificate) Address 26 70 WHATE DA					
2. Owner								City		XONG		State /Cy		
	00	A	8-17	1070 SC.	Li	8/	NEE	Zip	40	0503	Cou	intry USA		
3. For FAA Use Only														
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	Alteration	<del>                                     </del>	nit	T ,	Mak		Jiii ideniiio	T		Model		Sorial No.		
Repair	Alteration	- 01	ait		Vlan	e		-				Serial No.		
		AIRFRA	ME		_			(As de	scribe	d in Item 1	above)			
	V	POWER	RPLANT	Continen	ntal	Mc	otors		TSI	O-520-M		520651		
		PROPEL	LLER											
				Туре								85-1-198-32		
		APPLIAN	NCE											
				Manufacturer										
				<u> </u>	5	~~	nformity Sta	1-mant						
A Agency's	Name and Ad	ddress					Kind of Agenc							
	A Aircraft, Lir		rtnersh	qir	+	T		ated Mechanic Manufacturer						
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Zip <u>7670</u>			ed Stat				Certificated M					VA1R551K		
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Арр. В ————			James	s Colson 8/11/1		_								
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				ns specified below ninistration and is	w, 1	the		Approved		Rejected	<u> </u>	manner prescribed by the		
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	AA Designee	1		ir Station			pection Autho	rization	1	Other (Spec	city)			
ertificate or	No.		Signat	ture/Date of Author	rized	d In	dividual	1	4		7			
VA1R551K James Colson 8/11/11								()						

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with airco	craft nationality and registration mark and date wo	rk completed.)
	N6461Z	8/11/11
	Nationality and Registration Mark	Date
Engine modified per Dwg. 1157, Rev. AP, dated09/09/09 I/A/W	/ STC SE3630SW-D.	
Installed Slick pressurized magnetos p/n 6320 per Dwg. 1068,	Rev. N, dated 1/02/07 I/A/W STC SE4651S	SW-D.
Installation mechanic must complete Block 1 and 2 on reverse s Aircraft Registration Branch AFS-750, P.O. BOX 25504, Oklaho	side and mail one copy to the Federal Aviati oma City, Oklahoma 73125.	on Administration,
Negligible weight and balance change.		
Customer furnished with FAA approved Overhaul and Parts Mar alterations.	nual Supplements with instructions for contin	nued airworthiness for all
Pertinent details of the above installations are on file under proje	ect no. 5878.	
E	nd	
		-
Additional (	Chaota Ara Attachad	1

FAA Form 337 (10-06)

US Department of Transportation

# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

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OMB No. 2120-0020

For FAA Use Only
Office Identification

Federal Aviation Administration

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ROPELLER											
PPLIANCE	Туре										
	Manufacture										
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	Ountaile, Ch	74019			Manufacturer						
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	/		7. App	roval	for Return To Se	rvice					
rsuant to the a	authority given po the Federal Avia	ersons specified bel	ow the	unit ic	dentified in item 4	was inco	ected in the ma	nner pres	cribed by the		
	It. Standards	Standards Manufacturer X Inspection Authorization						·)			
	esignee	Repair Station		Trans	on Approved by sport Canada orthiness Group						
e of Approval	or Rejection	Certificate or Designation No.		Signa	ature of Authorized	Individu	ual Justin	P. Lou	N		

#### NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

# 8. Description of Work Accomplished

This alteration installs a streamline mast mounted GPS antenna and amplified splitter for use with aerial survey camera

- 1) Adapted streamline mast from Beachcraft NAV/COM antenna components.
- 2) Fabricated adapter plate from 1" Acetyl to mount L1/L2 GPS antenna to mast.
- 3) Fabricated angle doublers from 0.040" 2024-T3. Removed 6 AN470 rivets at the site of antenna attachment and fastened the angle doublers to the aircraft skin and upper centerline stringer using 6 AN426AD-4-5 rivets with the existing layout and spacing. See attached photo.
- 4) Installed streamline mast to airframe on centerline at station 73.50 using 4 AN3-5A bolts and MS35338-43
- 5) 1/4" grounding braid passes through the mast to bond the GPS antenna base plate to the airframe at the
- 6) RG-400/U coaxial cable is routed from the GPS antenna, through the mast and aircraft skin. The cable then passes over the headliner and down aft of the aft left door frame. Then to the GPS splitter.
- 7) The GPS Networks model NHILDCBS1X4-T/5/MC/28 GPS amplified splitter was mounted adjacent to the
- 8) Power for the GPS splitter is provided through 18 AWG wire by a 1A push/pull type circuit breaker (P/N MS26574-1) mounted in the "Camera Control Panel".
- 9) Distribution outputs R1 and R2 from the GPS splitter are connected to TNC female bulkhead connectors on the "Camera Control Panel". Distribution outputs R3 and R4 outputs are terminated with TNC 50 ohm

Installation and wiring, circuit protection and component selection was performed in accordance with AC 43.13-1B Ch

The aircraft electrical load including this alteration does not exceed 80% of the generation capacity.

The aircraft has been reweighed and the weight and balance sheet has been amended. The aircraft equipment list has been amended to reflect this alteration. This alteration does not alter the weight and balance limitations for this aircraft.

# Instructions for Continued Airworthiness

- 1) Introduction: (see 337 section 8 above)
- 2) Description: (see 337 section 8 above)
- 3) Control: Not Applicable.
- 4) Servicing Information: Not Applicable
- 5) Maintenance Instructions: No periodic or preventative maintenance is required for this alteration.
- 6) Trouble Shooting Information: Not applicable
- 7) Removal and Replacement Information: Open Camera Master circuit breaker before working on
- 8) Diagrams: Not applicable
- 9) Special Inspection Requirements: Not applicable
- 10) Application of Protective Treatments: Not applicable
- 11) Data: No structural fasteners were used in this alteration.
- 12) Special Tools: No special tools are required to install or maintain this system.
- 13) For Commuter Category Aircraft: Not applicable
- 14) Recommended Overhaul Periods: Not applicable
- 15) Airworthiness Limitation Section: Not applicable
- 16) Revision: A letter will be submitted to the local FSDO with a revised FAA form 337 and the revised ICA. The Inspector accepts the revision by signing block 3 of the 337.

A/C Reg: N6461Z A/C SN: U20606282

⊠Additional Sheets are Attached

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U.S. Departmen of Transportation

of Transportation Federal Aviation

# MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No.2120-0020

For FAA Use Only

Office Identification

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instru	uction	TIONS: Print or types and disposition on ,000 for each such	f this	form. This repor	t is req	uired	b	y law (49 U.S.C	C. 14	AC 43.9- 21). Failt	(or subsective to report	uent re can re	evision thereo sult in a civil p	f) for penalty not
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Serial No. U20606282										onality and 461Z	Registration M	lark		,696.664
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					3	. Fo	r	FAA Use Only						
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	Unit		Ма	ke				Model			Serial No.		Repair	Alteration
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BY	_	FAA Flt. Standards Inspector		Manufacturer		Х		Inspection Authorization Other (Specif				ecify)		
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#### NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
Installed M-20 Turbos, Inc./M-20 Air/Oil seperator as per STC SA2033AT, and supplied instructions. "Installation instructions M-20 Crankcase Air/Oil Seperators" Dated 07/01/1999, Revised 11/28/2001, edited 08/10/2006.
1) Seperator mounted on right rear engine baffling.
2) Oil drain line from seperator routed to engine low pressure opening on right side of engine case. Connection made with 45 degree fitting, and connected via 1/4 inch flexible tubing.
3) Seperator discharge tube connect to lower section of original breather line by 3/4 inch flexible tubing.
4) Seperator Inlet connected by rerouting original breather tube, and conneting via 3/4 inch flexible tubing.
5) All connections secured with adjustable hose clamps.
General  1) Installation performed per supplied instructions.
2) Negligible change in weight and balance Per. AC 43-13 -1B Para. C.
3) Equipment list updated.
**************************************
Additional Sheets Are Attatched

#### United States of America

## Department of Transportation -- Nederal Abiation Administration

# Supplemental Type Certificate

Number SA02033AT

This certificate issued to

M-20 Oil Separators, LLC 5612 NW 38th Terrace Boca Raton, FL 33496-2719

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereen meets the aircoorthiness requirements of Part \* of the Regulations.

Original Product . Type Certificate Number

Model: • :

\* See Continuation sheets 3 thru 25.

Description of Type Design Change: Modification to Install an air-oil separator, to prevent oil from being aspirated from the engine breather line, in accordance with M-20 Turbos, Inc./M-20 Oil Separators, LLC, Assembly Drawing No. 303, Rev. B dated October 13, 1999 or 403, Rev. None, dated December 08, 2000 and Installation drawing no. 304, Rev None, dated September 27, 1999 or 404 Rev. None, dated December 08, 2000 Installation Instruction, Air/Oil Separator dated July 1, 1999, or later FAA approved revisions.

Limitations and Conditions. Airplane Flight Manual Supplement is not part of this STC. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effects upon the airworthiness of the aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, recobed or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Dute of application : May 05, 1999

Date of issuance : November 19, 1999

Dala reissued . March 16, 2000; September 19, 2000; January

Date amended December 10, 2001; May 22, 2002; January 09, 2003; March 24, 2004; November 05, 2004; December 23, 2004, May 17, 2005, June 29, 2005, April 10, 2006

McIvin D. Taylor

Manager Atlanta Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprison ment not exceeding 3 years, or both.

PAGE 1 Of 25 PAGES

This certificate may be transferred in accordance with FAR 21.47.

#### United States of America

Bepartment of Transportation - Nederal Abiation Administration

## Supplemental Type Certificate

(Continuation Sheet)

Number SA02033AT

Date of Issuance: November 19, 1999

Date Amended: December 23, 2004, May 17, 2005, June 29, 2005, April 10, 2006

Date Reissued: March 16, 2000; September 19, 2000; January 18, 2001

Model 300 Eligibility Continued:

Type Certificate Number Model

Airworthiness Requirements

CESSNA AIRCRAFT COMPANY (continued):

A4CE

206, P206, U206, P206A, TP206A, TU206A, U206A, P206B, TP206B, TU206B, U206B, P206C, TP206C, TU206C, U206C, P206D, TP206D, TU206D, U206D, P206E, TP206E, U206E, TU206E, TU206F, U206F, TU206G, U206G, 206H, T206H

**CAR 3, FAR 23** 

A16CE

207, 207A, T207, T207A

FAR 23

3A21

210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R,

P210R, T210R, 210-5 (205), 210-5A (205A)

CAR 3, FAR 23

A34CE

T303

**FAR 23** 

3A10

310, 310A (USAF U-3A), 310B, 310C, 310D, 310E (USAF U-3B), 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q,

T310Q, 310R, T310R

**CAR 3, FAR 23** 

3A25

320, A, B, C, D, E, F, 320-1, 335, 340, 340A

CAR 3

A2CE

336

FAR 23

A6CE

337, 337A (USAF 02B), 337B, T337B, 337C, 337E, T337E, T337C, 337D, T337D, M337B (USAF 02A), 337F, T337F, 337G, T337G, 337H, P337H, T337H, T337H-SP

CAR 3, FAR 23

A7CE

401, 401A, 401B, 402, 402A, 402B, 414

CAR 3

CIRRUS DESIGN CORP.

A00009CH SR20, SR22

**FAR 23** 

COMMANDER:

A12SO

112, 112TC, 112B, 112TCA, 114, 114A, 114B, 114TC

FAR 23, 36

### US Department of Transportation

### **MAJOR REPAIR AND ALTERATION** (Airframe, Powerplant, Propeller, or Appliance)

Form	Approved

OMB No. 2120-0020

For FAA Use Only

rederal Aviation	Office Identification
Administration	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subseq	uent revision thereof) for instructions

Office Identification

and disposition for each violate	n of this form. This ion (Section 901 o	report is required f Federal Aviation	Act of	(49 1958	U.S.C. 1421). Faile ).	ure to re	port can result in	a civil pe	nalty not to ex	ceed \$1,000	
	Make				<i></i>	Model					
		Cessr	na					TU 206	G		
1. Aircraft	Serial No.					Nationality and Registration Mark					
	<b>_</b>	U20606						N64612	70		
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2. Owner		HJW Geospa	icial, In	c.			8407 Edgewater Dr. Oakland, CA 94621-1403				
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### NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished	-
This alteration installs a camera port in accordance with STC SA4004SW (Attached).	
The aircraft has been reweighed and the weight and balance sheet has been amended. The aircraft equipment list habeen amended to reflect this alteration. This alteration does not alter the weight and balance limitations for this aircraft	s t.
A/C Reg: N6461Z	
A/C SN: U20606282	
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⊠Additional Sheets are Attached	1

March 22, 2007

Pacific Aerial Surveys 8407 Edgewater Drive Oakland CA 94621

#### TO WHOM IT MAY CONCERN:

Pacific Aerial Surveys has purchased the right to install camera port and is authorized to install camera port in accordance with STC SA4004SW in Cessna U2066, N6461Z.

Charles M. Scheling

505 Homer Young Road

Fredericksburg TX 78624

830 685-3305

#### Mairie States of America

### Department of Transportation—Lederal Aviation Administration

# Supplemental Type Certificate

Number SA4004SW

This conficale, usued to Airmotive Engineering Corporation Division of Engine Components, Inc.

and

Charles M. Schelnick Rt. 2, Box 2388

9503 Middlex

San Antonio, Texas 78217

Wetmore, Texas 78163

confies that the change in the sypo design for the following product with the timilations and conditions

therefor as specified hereon oncels the airworthiness requirements of Fart 3 of the Civil Air

Heynelalarns

Consenal Londwel - Type Georificato Number AGCE

Make Cessna

Model: TU206G, U206G

Description of Type Design Change:

Installation of camera port in accordance with PL-DT-001, Revision A dated 6/1/79, and Drawing DT1001, Revision A dated 5/31/79, or later FAA approved revision.

Limitalians and Conditions:

Compatibility of this modification with other previously approved modifications must be determined by the installer.

This modification is for structural approval only.

This certificate and the supporting date which is the basis for approval shall remain in affect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Late of application: May 24, 1979

Dale missued:

Late of issuance June 20, 1979

Dole smended: August 7, 1985

Révision 1

Don P. Watson

Manager, Aircraft Certification Division Southwest Region

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

US Department of Transportation

### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved

OMB No. 2120-0020

For FAA Use Only

Office Identification

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Administration
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INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instr

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A/C Reg: N6164Z A/C S.N.: U20606282

### Amendment to Description of Work Accomplished:

Item 2) Do to space considerations, the "pair of U-ground outlets" was mounted in a cutout in the baggage curtain adjacent to the static inverter. This outlet was mounted in a metal box attached to a plate fabricated from 2024-T3 .032 aluminum. The plate was attached to the airframe at the frame that supports the baggage curtain. For rigidity a folded aluminum brace was attached between the upper inboard corner of the mounting plate and the mounting tray the inverter is attached to.

No other changes were made in the application of this alteration.

William W. Putney – A&P 2172454

10-11-2007

8
US Department
of Transportation
Federal Aviation
Administration

## MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020 11/30/2007	Electronic Tracking Number
F	or FAA Use Only

instruction	CTIONS: Pri	osition of this	form. This repor	le 14	CFR quired	§43.9, Part 4	43 Appendix E J.S.C. §44701	3, and AC 43	3.9-1 (or su	ubsequent revision thereof) result in a civil penalty for each
such vio	lation. (49 U.	S.C. §46301	a)) stration Mark			12	Serial No.			6282
1. Aircraπ	. Aircraft CESSNA						Model Tu	12060	6	Series U206
2. Owner	1		registration certifi AERIA BA PHO		5 U	RUEY.		As shown on RG 70 EXTUS	WI	certificate)  LHTTE D  State Ky  Intry USA
						For FAA Use				
4. Ty	/pe				5. l	Jnit Identific	ation		th fact in the contract was a proper to	
Repair	Alteration	Unit		N	/lake			Model		Serial No.
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		POWERPL	ANT							
		PROPELLE	R			Control (In				
		APPLIANCI	Type  Manufacturer					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
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have be	een made in	air and/or alt		nts of	Part 4	entified in ite	m 5 above an Federal Aviat	d described	on the reve	39987 erse or attachments hereto
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		F	M	7. An	prova	I for Return	to Service			
Pursuant to	the author	rity given pe eral Aviation	ersons specified Administration an	below		unit identifie		was inspect		manner prescribed by the
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FAA Form 337 (10-06)

### NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
N6461Z
Nationality and Registration Mark
Installation of vortex generators on the wings, tail surfaces and vertical fin, in accordance with Micro AeroDynamics Drawing Package MA2146, Revision A, dated March 11, 2004, and Installation Manual MA2147, Revision IR, dated January 25, 2001, per STC#SA00887SE.
Instructions for Continued Airworthiness of Micro Vortex Generator Installations are stated on VG Operating Placard #MA8001 which must be installed in an easily seen location in the cockpit. This placard states: "if more than 5 VGs are damaged or missing, the aircraft is not airworthy." To make it airworthy, the missing VGs in excess of five need to be replaced. The VGs should be examined prior to each flight, during the pre-flight inspection, to determine if any are missing or damaged. Missing or damaged VGs in excess of five need to be replaced by the installation of a new (replacement) part. Installation is accomplished with Loctite Depend Adhesive #330. No other maintenance or inspections are necessary.
Negligible weight change
END
Additional Sheets Are Attached

### Department of Transportation—Rederal Aviation Administration

## Supplemental Type Certificate

### Number SA00887SE

This certificate, issued to

Micro AeroDynamics, Inc. 4000 Airport Rd. Suite D Anacortes, WA 98221

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part \* of the \* Regulations.

Original Product-Type Certificate Number:

\* See attached FAA Approved Model List (AML)

Make:

No. SA00887SE for a list of approved airplane

Model:

models and applicable airworthiness regulations.

Description of the Type Design Change: Installation of vortex generators on the wings, tail surfaces, and vertical fin, in accordance with Micro AeroDynamics Drawing Package MA2146, Revision A, dated March 11, 2004, and installed in accordance with Installation Manual MA2147, Revision IR, dated January 25, 2001 (for the 206 series) or MA2196, Revision IR, dated March 11, 2004 (for the 207 series), or later FAA approved revisions.

Limitations and Conditions. Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate must be maintained as part of the permanent records for the modified aircraft.

NOTE: If more than five vortex generators are damaged or missing, the aircraft is not airworthy.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application:

December 21, 2000

Date reissued:

Date of issuance:

March 12, 2001

Date amended:

April 27, 2004



By direction of the Administrator

Acting/Manager, Seattle Aircraft

Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both

Micro Aero-ynamics, Inc.
FAA Approved Model List (AML) No. SA00887SE
Installation of Micro AeroDynamics, Inc. Vortex Generator Kit

Original Issue Date: March 12 2001	AML BEVIEWOOD	DATE	
sue Date: ]	VED	3/11/04	3/11/04
ginal Is	FAA APPROVED DRAWINGS	A A	A
Ori	FAA	MA2146	MA2146
	VED	DATE 1/24/01	3/11/04
	FAA APPROVED INSTALLATION INSTRUCTIONS	REV.	R
	FA/ INS	MA2147	MA2196
	CERT. BASIS FOR ALTERATION	CAR 3 FAR 23	FAR 23
Transfer Comment	NUMBER	A4CE	A16CE
AIRPI ANTE	MODEL	206, P206, P206A, P206B, P206C, P206D, P206E, U206, U206A, U206B, U206C, U206B, U206C, U206B, U206C, U206B, U206C, TP206C, TP206B, TP206C, TP206B, TP206C, TP206C, TU206B, TU206C,	207, I207, 207A, T207A
AIRCRAFT	MAKE	Cessna	pilicoo
ITEM		.1	

APPROVED Gam Hell Certification Office

Amended: 4/27/2004

### US Department of Transportation Federal Aviation

### MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

orm	App	roved	
ОМВ	No.	2120-0	)(

020

For FAA Use Only

Office Identification

Administration

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions

			of Federal Aviation			J.S.C. 1421). Falluf I.	e to repo	in can result in a	a civii pei	ially not to ex	ceed \$1,000	
	Make			Model								
		Cessna					TU 206 G					
1. Airc	raft	Serial No.				Nationality and Registration Mark			rk			
		U20606282				N6461Z				S		
		Name (As shown	on registration certific			Address (As shown on registrati			ion certifica	ate)		
			HJW Geospa	cial, In				Edgewater Dr.				
2. Own	er					Oakland			l, CA 94621-1403			
					2 1	2.5-54411-0-1-						
					3.1	For FAA Use Only						
				4. Unit Identification			7		5. Type			
Unit		Make				Model		Serial No.		Repair	Alteration	
AIDEDA	ME	As do				scribed in Item 1 above) ~~~~~						
AIRFRAME		(A5 063				scribed in Rem 1 above)					Х	
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POWER	PLANI	1										
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PROPEL	LEK											
	March 194000 2007 Cap	Туре										
APPLIA!	NCE								Ì			
		Manufacturer										
				6	7	nformity Statemen	nt					
A. Agen	cy's Name	e and Address			-	Kind of Agency U.S. Certificated M	lashania		C. Certi	ficate No.		
Justi	n Loi	er Bry P	1		X	Foreign Certificated M	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Own	io				
980	Horb	er Bay P	Ewy		-	Certified Repair Sta		ic				
Oaldand, CA 94621			-	Manufacturer	ation							
				o the un	it(e) i	identified in item 4	ahove an	d described on	the rever	se or attachm	ente	
						ts of Part 43 of the					ICIILO	
	rmation fu	rnished herein	is true and correct	to the b			/					
Date					Sig	nature of Authorize	ed Individ	ual				
20	A	pril Zo	007									
	1			7. App	rova	for Return To Se	ervice					
Pursuant	t to the au	thority given pe e Federal Aviat	rsons specified be ion Administration	low, the	unit	identified in item 4	was insp		nner pres	scribed by the	)	
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70			Designation No		Sig	najure of Authorize	mulvidi	uai JuStii	IF. LUU	IAA		
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### NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

<ol> <li>Description of Work Accomplished</li> <li>This alteration installs Flint Aero Auxiliary Fuel Tank Kit in accordance with STC SA4366WE (Attached).</li> </ol>	
The aircraft electrical load including this alteration does not exceed 80% of the generation capacity.	
The aircraft has been reweighed and the weight and balance sheet has been amended. The aircraft equipment list has been amended to reflect this alteration.	
A/C Reg: N6461Z	
A/C SN: U20606282	
**************************************	
	To Colombia
	-
	-
	CHARGOCINE
	<b>Andress</b>
	-
⊠Additional Sheets are Attached	
⊠Additional Sheets are Attached	

#### United States Of America

### Bepartment of Transportation - Nederal Abiation Administration

## Supplemental Type Certificate

Number SA4366WE

This Certificate is sued to

Flint Aero, Inc. 1942 Joe Crosson Drive El Cajon, California 92020-1236

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3\* of the Vivil Noir Regulations and Part 23\* of the Federal Aviation Regulations. \*Certification basis is set forth in Type Certificate Data Sheet A4CE, Revision 37.

Original Product Type Certificate Number.

A4CE

Make

Cessna

Model

U206F, TU206F, U206G, TU206G, 206H, T206H

Description of Type Design Change: Installation of 14.9 gallon usable fuel-containing wing tips in accordance with FAA sealed Flint Aero, Inc. Master Drawing List MDL FA3330, no revision, dated June 18, 1981 or later approved FAA revisions. Increase in the gross weight from 3,600 to 3,800 pounds for landplane, floatplane, amphibian, and ski plane versions of models U206F, TU206F, U206G, TU206G as applicable per TCDS A4CE and the Flight Manuals. Increase in the gross weight from 3,600 to 3,800 pounds for landplane versions of the 206H and T206H. Flint Aero, Inc. FAA Approved Supplemental Airplane Flight Manual, dated December 7, 1987 for models U206F, TU206F, U206G, TU206G, or Flint Aero, Inc. FAA Approved Flight Manual Appendix, dated August 17, 2000 for models 206H and T206H, or later approved revisions, is required as part of this installation.

Similations and Conditions: The limitations and conditions of Data Sheet A4CE apply, except as outlined on page 3 of this STC. The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. (continued)

This certificate and the supporting data which is the basis for approval shall remain in effect until succendered. suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Acciption Administration

Date of application. June 18, 1981

Date reissued: June 15, 1990, February 25, 2000,

Date of issuance:

August 28, 1981

Date anunded: December 7, 1987, September 7, 2000



Mileal W. Chara(Signature)

Manager, Airframe Branch
Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both

### United States Of America

### Repartment of Transportation - Nederal Abiation Administration

## Supplemental Type Certificate

(Continuation Sheet)

Number SA4366WE

Limitations and Conditions: (Continued)

The approval of this modification applies to the above noted airplane model series only. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission. A copy of this STC must be included in the permanent records of each airplane modified in accordance with this STC.

Fuel Capacity:

Noted in Type Certificate A4CE for specific model plus two 15 U.S. gallon (14.9 gallon usable) auxiliary wing tip tanks at (F.S.+53).

Placards:

The following placards are required in locations noted:

On instrument panel in clear view of the pilot: "Total wing tip fuel 30 U.S. gallons (29.8 gallon usable). Transfer fuel during level flight. Transfer fuel when main tank contains not less than 5.0 gallons and is at least 15.0 gallons below full. Wing tip fuel switch must be off during takeoff, landing, refueling, and when empty. Monitor main fuel tank gauge while transferring wing tip fuel to prevent over filling."

Adjacent to the airspeed indicator: "Reduce  $V_{ne}5$  MPH per 1,000 above 18,000 feet." (Turbocharged models only).

Forward of each wing tip tank filler: "15.0 U.S. Gallons (14.9 gallon usable) 100LL or 100/130 min. grade aviation gasoline."

Adjacent to wing tip fuel tank pump switches: "Wing tip fuel tank pumps must be off during takeoff, landing, refueling and when empty. Monitor main fuel tank gauge while transferring wing tip fuel to prevent over filling."

At wing tip fuel tank pump switches: "Left (right) wing tip fuel. 15.0 U.S. gallons. 14.9 gallons usable. On. Off."

Adjacent to each wing tip fuel tank leak detection drain (3 per side): "Fuel or vapor from drain requires immediate repairs."

Adjacent to appropriate wing tip tank pump circuit breakers or fuses: "Tip tank L (R) pump."

Gross Weight:

3800 pounds or 3600 pounds; see Limitation of Applicability.

Center of Gravity:

Center of gravity range, inches aft of datum

Forward: 33.0 inches aft of datum at 2500 lbs. or less, with straight line variation to 44.4 inches aft of datum at 3800 lbs. or 42.5 inches aft of datum at 3600 lbs.

Aft: 49.7 inches aft of datum at all weights.

Reference datum: Front face of lower firewall.

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both

#### United States Of America

Bepartment of Transportation - Nederal Abiation Administration

## Supplemental Type Certificate

(Continuation Sheet)

Number SA4366WE

Limitation of Applicability:

The approval of this change in type design applies to the basic Cessna 206 series airplanes of the models shown above. Flint Aero, Inc. FAA Approved Supplemental Flight Manual, dated December 7, 1987 or later approved revisions, is required as part of this installation on Models U206F, TU206F, U206G, and TU206G.

Flint Aero, Inc. FAA Approved Flight Manual Appendix, Report Number 050.04 or 050.06, or later FAA Approved revisions, are required as part of this installation on Models 206H and T206H. The appropriate Airplane Flight Manual selected and Maximum TakeOff Gross Weight (MTOGW) allowable is dependent upon the airplane serial number and the status of incorporation of Cessna Aircraft Company Accomplishment Instruction Al 206-57-01 as shown in the table below:

	Applicability	Table	
206H/T206H S/N	Al 206-57-01 incorporated?	AFM Appendix	MTOGW
20608060-20608091	no	FA 050.06	3600 lb
20608060-20608091	yes	FA 050.04	3800 lb
20208092 and subs	Not Required	FA 050.04	3800 lb
20608101-20608158	no	FA 050.06	3600 lb
20608101-20608158	yes	FA 050.04	3800 lb
20608159 and subs	Not Required	FA 050.04	3800 lb

This approval should not be extended to other airplanes of these models on which other modifications are incorporated unless it is determined that the interrelationship between this change and any previously approved modification will introduce no adverse effect on the airworthiness of these airplanes.

-- END --



### **PERMISSION STATEMENT**

This is a Flint Aero Inc. memo and is not part of the STC.

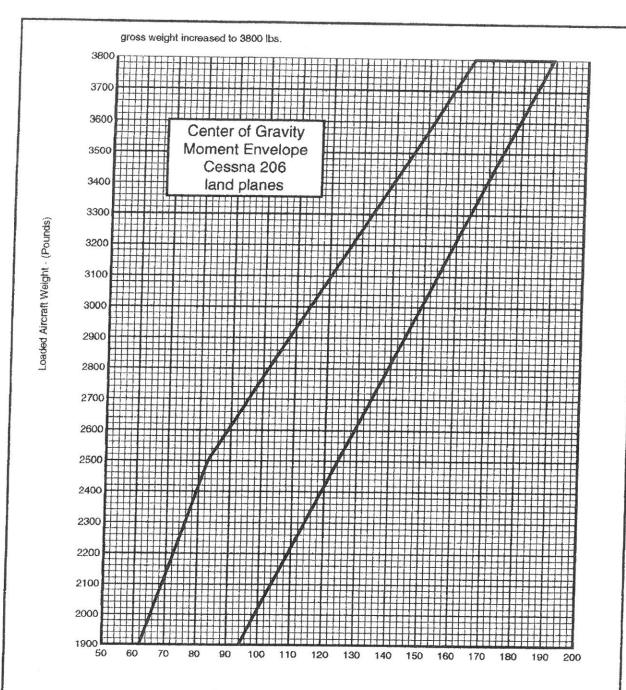
This permission statement is in accordance with Public Law 104-264, Federal Aviation Reauthorization Action of 1996, which requires Flint Aero to issue a "permission statement" to whomever we permit the use of the STC.

Permission is hereby granted t	(Aircraft Registered Owner)	
Address of Registered Owner:	8407 Edgewater DR. Oakland CA. 94621	
by Flint Aero Inc. to install Fli	nt Aero auxiliary fuel kit Serial Number: Serial #06L-10910	1
on Cessna Model:	TU2066	
aircraft serial number:	20606282	
in accordance with STC No:	SA 4366 WE	

#### Note:

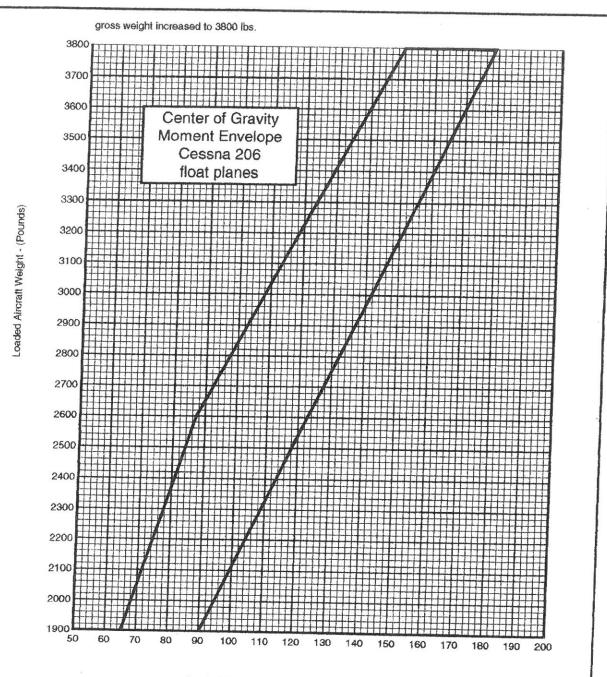
The second page of the STC is intended to transfer ownership of the STC to a new manufacturer. This has caused some confusion. Your purchase of our fuel kit includes a copy of the STC but does not transfer ownership of the STC. To clarify this situation, we have stamped "VOID" across the second page of the copy of the STC which is provided with the kit you have purchased.

Flint Aero recommends that the installation manual be kept in the aircraft for continued air worthiness instructions and to aid in troubleshooting. Copies of the installation manual may be purchased from Flint Aero.



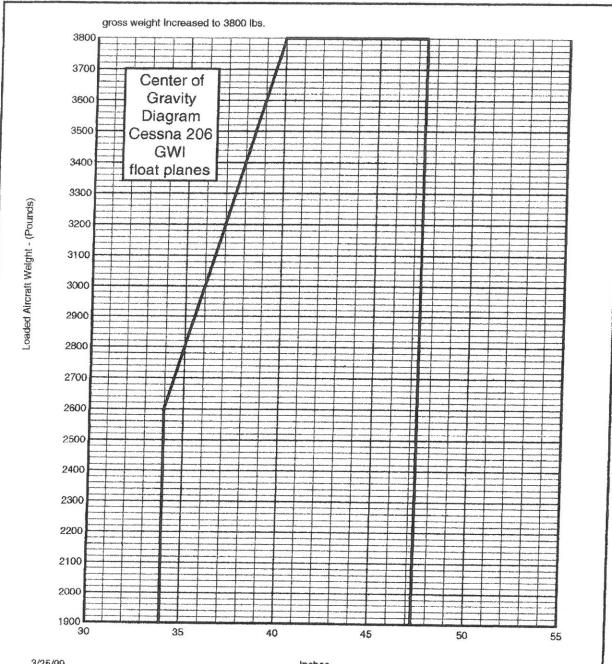
Loaded Aircraft Moment/1000 - (Pound - Inches)

3/25/99 Flint Aero Inc.



Loaded Aircraft Moment/1000 - (Pound - Inches)

3/30/99 Flint Aero Inc.



3/25/99 Flint Aero Inc.

Inches