

EDWARDS JET CENTER
LOGAN FIELD
BILLINGS, MT 59108

FAA CRS HERRB11E
LOGAN FIELD
PHONE (406) 252-0508

REVISED AIRCRAFT WEIGHT & BALANCE AND EQUIPMENT DATA

SUPERCEDES W&B DATED 7/23/2021

OWNER
AIRCRAFT MAKE
REGISTRATION #
SERIAL NO.

Kris Green
PIPER
N4775F
32-7640121

AIRCRAFT MODEL
W.O. #

PA-32-300
24099

UNIT	WEIGHT	ARM	MOMENT
LEFT MAIN	773.00	108.00	83484.00
RIGHT MAIN	768.00	108.00	82944.00
NOSE	592.00	13.00	7696.00

TOTAL WEIGHT	2133.00		174124.00
PREVIOUS AIRCRAFT EMPTY WEIGHT	N/A	PREV. MOM	N/A
NEW AIRCRAFT EMPTY WEIGHT & MOM.	2133.00		174124.00
NEW AIRCRAFT TOTAL MOMENT	174124.00		
NEW AIRCRAFT EMPTY WEIGHT	2133.00		

NEW EMPTY C.G.	81.63
GROSS WEIGHT	3400.00
NEW A.C.E.W.	2133.00
NEW USEFUL LOAD	1267.00

REPAIRMAN'S NAME
DATE OF AMENDMENT
SIGNATURE

Jeff Doyle

1/25/2022



Weight / Balance & Equipment List Revision

Cincinnati Avionics - VYTR380B
 2001 Sportys Drive, Clermont County Airport
 Batavia, OH 45103 Tel: 513 735 9595

A/C Tail #: N4775P
 Register Name: Green Don
 Name 2:
 Address 1: 4507 Island Dr
 Address 2:
 City, State, PO: Midland, TX 79707-1403

A/C Make: PIPER
 A/C Model: PA-32-300
 A/C Serial #: 22-7649-21
 W/O Ref #: 10849
 WTB Date: Jul-23-2021
 WB ID #: 1495

This Aircraft has been re-weighted using the following computations.

Reaction Points	Scale Reading	Tare	Net Weight	Arm / CG	Moment
Right Main	939.00	0.00	939.00		
Left Main	952.00	0.00	952.00		
Sub Total Main			1891.00	101.00	204228.00
Nose / Tail	673.00	0.00	673.00	80.00	53784.00
Total as Weighed			2564.00	93.00	212977.00
Engine Oil					
Unusable Fuel					
Full Fuel			-504.00	35.00	-17640.00
Other 2					
Other 3					
Basic Empty Weight			2060.00	80.14	165097.00

AIRCRAFT GROSS WEIGHT = 3400.00 WEIGHED USEFUL LOAD (computed) = 1340.00

Model #	Description of change	(LB / IN) Weight	CG/Arm	Moment
	Empty Weight (as weighed) >>>	2060.00	80.14	165097.00
NO ITEMS REMOVED				
NO ITEMS INSTALLED				
NEW DATA >>>	NEW USEFUL LOAD = 1340.00	2060.00	80.14	165097.00

Authorized Individual: _____

CLEARLY IDENTIFIABLE
 10/25/21
 JCY

1234 Street, Suite 567
Chicago, Illinois 60601

1234 Street, Suite 567
Chicago, Illinois 60601

Customer Name		Product Description		Quantity	
ABC Corp	1234 Main St	Product A	Product B	10	5
DEF Inc	5678 Elm St	Product C	Product D	20	15
GHI LLC	9101 Oak St	Product E	Product F	30	25
JKL Corp	2345 Pine St	Product G	Product H	40	35
MNO Ltd	6789 Birch St	Product I	Product J	50	45
PQR Inc	1011 Cedar St	Product K	Product L	60	55
STU Corp	4321 Maple St	Product M	Product N	70	65
VWX LLC	7654 Willow St	Product O	Product P	80	75
YZA Inc	0987 Spruce St	Product Q	Product R	90	85
BCD Corp	3210 Fir St	Product S	Product T	100	95
EFG LLC	6543 Poplar St	Product U	Product V	110	105
HIJ Inc	9876 Ash St	Product W	Product X	120	115
KLM Corp	2109 Hickory St	Product Y	Product Z	130	125
NOP Ltd	5432 Chestnut St	Product AA	Product AB	140	135
QRS Inc	8765 Sycamore St	Product AC	Product AD	150	145
TUV Corp	1098 Dogwood St	Product AE	Product AF	160	155
WXY LLC	4321 Redwood St	Product AG	Product AH	170	165
ZAB Inc	7654 Juniper St	Product AI	Product AJ	180	175
BCD Corp	0987 Cypress St	Product AK	Product AL	190	185
EFG LLC	3210 Palm St	Product AM	Product AN	200	195
HIJ Inc	6543 Cedar St	Product AO	Product AP	210	205
KLM Corp	9876 Birch St	Product AQ	Product AR	220	215
NOP Ltd	2109 Pine St	Product AS	Product AT	230	225
QRS Inc	5432 Oak St	Product AU	Product AV	240	235
TUV Corp	8765 Maple St	Product AW	Product AX	250	245
WXY LLC	1098 Elm St	Product AY	Product AZ	260	255
ZAB Inc	4321 Cedar St	Product BA	Product BB	270	265
BCD Corp	7654 Birch St	Product BC	Product BD	280	275
EFG LLC	0987 Pine St	Product BE	Product BF	290	285
HIJ Inc	3210 Oak St	Product BG	Product BH	300	295
KLM Corp	6543 Maple St	Product BI	Product BJ	310	305
NOP Ltd	9876 Elm St	Product BK	Product BL	320	315
QRS Inc	2109 Cedar St	Product BM	Product BN	330	325
TUV Corp	5432 Birch St	Product BO	Product BP	340	335
WXY LLC	8765 Pine St	Product BQ	Product BR	350	345
ZAB Inc	1098 Oak St	Product BS	Product BT	360	355
BCD Corp	4321 Maple St	Product BU	Product BV	370	365
EFG LLC	7654 Elm St	Product BW	Product BX	380	375
HIJ Inc	0987 Cedar St	Product BY	Product BZ	390	385
KLM Corp	3210 Birch St	Product CA	Product CB	400	395
NOP Ltd	6543 Pine St	Product CC	Product CD	410	405
QRS Inc	9876 Oak St	Product CE	Product CF	420	415
TUV Corp	2109 Maple St	Product CG	Product CH	430	425
WXY LLC	5432 Elm St	Product CI	Product CJ	440	435
ZAB Inc	8765 Cedar St	Product CK	Product CL	450	445
BCD Corp	1098 Birch St	Product CM	Product CN	460	455
EFG LLC	4321 Pine St	Product CO	Product CP	470	465
HIJ Inc	7654 Oak St	Product CQ	Product CR	480	475
KLM Corp	0987 Maple St	Product CS	Product CT	490	485
NOP Ltd	3210 Elm St	Product CU	Product CV	500	495
QRS Inc	6543 Cedar St	Product CW	Product CX	510	505
TUV Corp	9876 Birch St	Product CY	Product CZ	520	515
WXY LLC	2109 Pine St	Product D1	Product D2	530	525
ZAB Inc	5432 Oak St	Product D3	Product D4	540	535
BCD Corp	8765 Maple St	Product D5	Product D6	550	545
EFG LLC	1098 Elm St	Product D7	Product D8	560	555
HIJ Inc	4321 Cedar St	Product D9	Product D10	570	565
KLM Corp	7654 Birch St	Product D11	Product D12	580	575
NOP Ltd	0987 Pine St	Product D13	Product D14	590	585
QRS Inc	3210 Oak St	Product D15	Product D16	600	595
TUV Corp	6543 Maple St	Product D17	Product D18	610	605
WXY LLC	9876 Elm St	Product D19	Product D20	620	615
ZAB Inc	2109 Cedar St	Product D21	Product D22	630	625
BCD Corp	5432 Birch St	Product D23	Product D24	640	635
EFG LLC	8765 Pine St	Product D25	Product D26	650	645
HIJ Inc	1098 Oak St	Product D27	Product D28	660	655
KLM Corp	4321 Maple St	Product D29	Product D30	670	665
NOP Ltd	7654 Elm St	Product D31	Product D32	680	675
QRS Inc	0987 Cedar St	Product D33	Product D34	690	685
TUV Corp	3210 Birch St	Product D35	Product D36	700	695
WXY LLC	6543 Pine St	Product D37	Product D38	710	705
ZAB Inc	9876 Oak St	Product D39	Product D40	720	715
BCD Corp	2109 Maple St	Product D41	Product D42	730	725
EFG LLC	5432 Elm St	Product D43	Product D44	740	735
HIJ Inc	8765 Cedar St	Product D45	Product D46	750	745
KLM Corp	1098 Birch St	Product D47	Product D48	760	755
NOP Ltd	4321 Pine St	Product D49	Product D50	770	765
QRS Inc	7654 Oak St	Product D51	Product D52	780	775
TUV Corp	0987 Maple St	Product D53	Product D54	790	785
WXY LLC	3210 Elm St	Product D55	Product D56	800	795
ZAB Inc	6543 Cedar St	Product D57	Product D58	810	805
BCD Corp	9876 Birch St	Product D59	Product D60	820	815
EFG LLC	2109 Pine St	Product D61	Product D62	830	825
HIJ Inc	5432 Oak St	Product D63	Product D64	840	835
KLM Corp	8765 Maple St	Product D65	Product D66	850	845
NOP Ltd	1098 Elm St	Product D67	Product D68	860	855
QRS Inc	4321 Cedar St	Product D69	Product D70	870	865
TUV Corp	7654 Birch St	Product D71	Product D72	880	875
WXY LLC	0987 Pine St	Product D73	Product D74	890	885
ZAB Inc	3210 Oak St	Product D75	Product D76	900	895
BCD Corp	6543 Maple St	Product D77	Product D78	910	905
EFG LLC	9876 Elm St	Product D79	Product D80	920	915
HIJ Inc	2109 Cedar St	Product D81	Product D82	930	925
KLM Corp	5432 Birch St	Product D83	Product D84	940	935
NOP Ltd	8765 Pine St	Product D85	Product D86	950	945
QRS Inc	1098 Oak St	Product D87	Product D88	960	955
TUV Corp	4321 Maple St	Product D89	Product D90	970	965
WXY LLC	7654 Elm St	Product D91	Product D92	980	975
ZAB Inc	0987 Cedar St	Product D93	Product D94	990	985
BCD Corp	3210 Birch St	Product D95	Product D96	1000	995

RECEIVED
DATE: 12/15/2023
BY: [Signature]

EDWARDS JET CENTER
LOGAN FIELD
BILLINGS, MT 59105

FAA CRJ 730-117
LOGAN FIELD
PHONE (406) 252-0508

REVISED AIRCRAFT WEIGHT & BALANCE AND EQUIPMENT DATA

SUPERCEDES W&B DATED 4/5/1985

OWNER
AIRCRAFT MAKE
REGISTRATION #
SERIAL NO.

Kris Green
Piper
N4778P
32-7840121

AIRCRAFT MODEL
W.O. #

PA 32-300
22333

UNIT	WEIGHT	ARM	MOMENT
REMOVE ALTERNATOR	-13.90	3.60	-48.65
INSTALL ALTERNATOR	10.60	3.60	38.16
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00

*SUPERCEDES
FIELD TRAINING INC
5/11/20
CRJ 730-117*

EQUIPMENT CHANGE TOTAL WEIGHT	-3.00		-10.60
PREVIOUS AIRCRAFT EMPTY WEIGHT	1996.40	PREV. MOM	160537.00
NEW AIRCRAFT EMPTY WEIGHT & MOM.	1993.40		160526.50

NEW AIRCRAFT TOTAL MOMENT	160526.50
NEW AIRCRAFT EMPTY WEIGHT	1993.40

NEW EMPTY C.G.	80.53	6/10/19
GROSS WEIGHT	3400.00	
NEW A.C.E.W.	1993.40	
NEW USEFUL LOAD	1406.60	

SIGNATURE *Kris Green*

WEIGHT AND BALANCE DATA

TO: OWNER 477M
 MAKE PIPER
 MODEL PA-32-300
 S/N 32-7641021

DATE 04/05/05
 TACH
 WORK ORDER #

	WEIGHT	ARM	MOMENT
PREVIOUS A/C EMPTY	1993.40	88.44	168348.00
REMOVED ITEMS			
INSTALLED ITEMS			
NOV-04 ORE	3.0		189.00
NEW A/C EMPTY	1996.40	88.41	168537.00
NEW A/C E.W. 1	1996.40		
NEW A/C C.G. 1	88.41		
NEW USEFUL LOAD 1	1483.60		

ABOVE INSTALLATION PERFORMED
 IN ACCORDANCE WITH MANUFACTURERS
 SPECIFICATIONS AND IS APPROVED
 FOR RETURN TO SERVICE

J.S.GREEN
 INSPECTOR FOR
 THE RADIO SHOP
 FAA REPAIR STATION #207-600
 REGIONAL AIR TERMINAL
 MIDLAND, TX, 79711

2018.9 New Basic Weight

79.7 Arm

141323

181701

141326

160,909.33 New Moment

DATE: 10-9-78

REVISED
WEIGHT AND BALANCE

RNO. NO. 81132

SERIAL NO. 32-0940121

LIST	WEIGHT	ADD	REMOVE
The following is a revision to the optional equipment list:			
REMOVE:			
Electric Trim	4.4	191.5	863
*Auto Control LIST	9.8	89.4	779
ADD:			
U/S Coupler and Cables	1.1	34.7	88
*Automatic LIST	11.1	88.5	2295
New Optional Equipment Total:	170.1	140.4	1723
Old Licensed Empty Weight:	1991.8	80.1	13999
New Licensed Empty Weight:	1993.4	80.4	14034
New Basic Weight:	2013.9	79.7	14072

APPROVED: ALVIN JONES
 LICENSED P. 107-1008
 SUPERVISOR OF
 AIRCRAFT WEIGHT & BALANCE

* See Page 5-23, Report 78-251 for individual items.

WEIGHT AND BALANCE DATA

MODEL PA-32-300 CHEROKEE

Airplane Serial Number 32-7640121Registration Number N4773FDate 8/31/76

AIRPLANE BASIC WEIGHT

Item	Weight (Lbs)	X	C. G. Arm (Inches Aft of Datum)	=	Moment (In-Lbs)
*Empty Weight XXXXX Computed	1821.0		78.5		142858
Undrainable Fuel (3.2 pints)	2.3		103.0		237
Standard Empty Weight	1823.3		78.5		143095
Optional Equipment	159.3		103.5		16495
Licensed Empty Weight	1982.6		80.5		159590
Oil (12 quarts)	16.6		16.6		374
Basic Weight	2005.1		79.8		159964

*Empty weight is defined as dry empty weight (including paint and hydraulic fluid) plus 2.4 lbs undrainable engine oil.

SUPERSEDED
REVISED WEIGHT & BALANCE
PIPER AIRCRAFT CORPORATION
VERO BEACH, FLORIDA

AIRPLANE USEFUL LOAD - NORMAL CATEGORY OPERATION

(Gross Weight) - (Licensed Empty Weight) = Useful Load

(3400 lbs) - (1982.6 lbs) = 1417.4 lbs

THIS LICENSED EMPTY WEIGHT, C. G. AND USEFUL LOAD ARE FOR THE AIRPLANE AS DELIVERED FROM THE FACTORY. REFER TO APPROPRIATE AIRCRAFT RECORD WHEN ALTERATIONS HAVE BEEN MADE.

C. G. RANGE AND WEIGHT INSTRUCTIONS

1. Add the weight of all items to be loaded to the basic weight.
2. Use the loading graph to determine the moment of all items to be carried in the airplane.
3. Add the moment of all items to be loaded to the basic weight moment.
4. Divide the total moment by the total weight to determine the C.G. location.
5. By using the figures of Item 1 and Item 4, locate a point on the C.G. range and weight graph. If the point falls within the C.G. envelope, the loading meets the weight and balance requirements.

SAMPLE LOADING PROBLEM (Normal Category)

	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Basic Weight	2005.1	79.8	159264
Pilot and Front Passenger	340.0	85.5	29070
Passengers (Center Seats)	340.0	118.1	40154
Passengers (Rear Seats)	340.0	155.7	52938
Passenger (Jump Seat)*		118.1	
Fuel (64-Gallon Maximum)	274.9	95.0	26116
Baggage (Forward)	100	42.0	4200
Baggage (Aft)		178.7	
Total Loaded Airplane	3400	91.9	312442

The center of gravity (C.G.) of this sample loading problem is at 91.9 inches aft of the datum line. Locate this point (91.9) on the C.G. range and weight graph. Since this point falls within the weight - C.G. envelope, this loading meets the weight and balance requirements.

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRCRAFT OWNER TO INSURE THAT THE AIRPLANE IS LOADED PROPERLY.

*Optional Equipment.

EQUIPMENT LIST

The following is a list of equipment which may be installed on the PA-32-300. Items marked with an "X" are items installed when the airplane was delivered by the manufacturer.

Item	Description	Weight Lbs.	Arm A/F Dist.	Moment	Comp. Type
	A. Propeller and Propeller Accessories				
	Spinner and Attachment Plates, Piper Desg. W374	3.2	-13.0	-46	TC A300
X	Continental Model F-441 1 cc F-411*	4.0	- 3.1	- 10	TC P30
X	Propeller, Model: HC-CYR-1/84150-4	14.3	-12.1	-100	TC P30
X	Spinner Installation W374	1.0	-13.2	- 54	TC A300

*Engines with serial numbers ending with "A" require the F-4-11 governor. Other engines require the F-4-4 governor.

CHRYSLER SL-300

Item	Description	Weight Lbs.	App. AS Datum	Moment	Cent. Base
B. Engine and Engine Accessories					
—	Lycoming Model D-140E LA1 (Serial nos. 740001 through 740007 and 740017 through 740071)	458.8	10.8	4951	TC 104
X	Lycoming Model D-140E 101 (Serial nos. 740008, 740072 and up)	471.8	10.8	4970	TC 104
X	Fuel Pump, Electric Auxiliary, Aerovac Mfg. Co., Model 7484	3.2	113.8	364	TC A300
X	Oil Cooler - Rotax 7412043 (Oil Pump Dep. 1709.2)	4.4	25.0	111	TC A300
X	Filter - Fuel Model 7CA-102 PL***	1.0	16.0	16	TC 104
X	7CA-101 PL****	1.0	16.0	16	TC 104
—	Fuel Pump, Engine Drive, Low-Engine, Model 801 7400-D (Serial nos. 740001 through 740006 and 740007 through 740071)	1.0	27.6	28	TC 104
X	Fuel Pump, Engine Drive, Lycoming PN 71247 (Serial nos. 740008, 740072 and up)	1.7	27.6	47	TC 104
X	Starter - Lycoming 74211 (Prestolite M2426)	* 18.0	.7	13	TC 104
—	Oil Filter - Lycoming *75128-1AC OF1175760**	2.3	29.4	97	TC 104
X	Oil Filter - Lycoming *LW12743 (Champion) *CG-48110**	2.8	43.1	122	TC 104

*Included in engine weight.
**Serial nos. 750001 and up.
***Serial nos. 740001 through 740100.
****Serial nos. 740001 and up.

Item	Description	Weight Lbs.	App. MS Detail	Mounting	Cost Dollars
C. Landing Gear and Brakes					
X	Two Main Wheel Assemblies, 4.00-6	52.2	100-A	1020	TC A.100
	(a) Commercial Aircraft Products Wheel Assembly No. 4000 Brake Assembly No. 3041				
	(b) Two Main 4-Ply Rating Tires 4.00-6 with Regular Tubes				
X	One Nose Wheel, 4.00-6	12.1	100-A	200	TC A.100
	(a) Commercial Aircraft Products Wheel Assembly No. 3850 (Low Brake Drum)				
	(b) Two 4.00-6, 4-Ply Rating				

CONTINUED 823-300

Item	Description	Weight Lbs	Arm Off Datum	Moment	Cost Rate
D. Electrical Equipment					
_____	Battery 12V, 25 A.H., Eaton 8-25	21.8	41.4	907	TC A.280
X	Stall Warning Device, Safe Flight Instrument Corporation, No. CS1207-4	2	60.2	18	TC A.280
X	Voltage Regulator, West Electric *S1452B	3	43.4	27	TC A.280
X	Overvoltage Relay, West Electric *S1475B	5	37.0	19	TC A.280
X	Annunciator Lights *	8	41.8	11	TC A.280

*Serial nos. 734001 and up

Item	Description	Weight Lbs	Arm A/H Dist	Moment	Cent Base
E. Instruments					
X	Compass - Piper Deg. 67462	3	64.9	19	TC A 180
	Altimeter Indicator, Piper Deg. 6225-4	4	66.8	40	TC A 180
X	Tachometer, Piper Deg. 62175-3	7	66.2	46	TC A 180
X	Engine Cluster, Piper Deg. 91241-2	8	67.4	54	TC A 180
X	Engine Cluster, Piper Deg. 91241-4	8	67.4	54	TC A 180
X	Altimeter, Piper PS3008-2, 3, 4 or 5	1.0	65.9	46	TC A 180
X	Manifold Pressure and Fuel Flow Indicator Piper PS3423-7	1.2	66.2	79	TC A 180

CHECKLIST 512-30

Item	Description	Weight Lbs.	Area Adj Datum	Moment	Cent. Base
X	Forward Seat Belts (2) 17 lbs. each, Piper No. P100014-24	1.8	86.8	150	TC A.350
X	Intermediate Belts (2) 6.8 lbs. each, Piper No. P100014-24	1.4	118.6	191	TC A.350
X	Center Seat Belts (2) 10 lbs. each, Piper No. P100014-24	1.4	123.0	172	TC A.350
X	Aft Seat Belts (2) 17 lbs. each, Piper No. P100014-24	1.8	143.0	248	TC A.350
X	Tire Brakes (Quad) Piper Dev. 61474-2	11.0	34.6	601	TC A.350
X	Tire Bal. Piper Dev. 7928	1.2	148.0	218	TC A.350
X	Rear Cabin Door, Piper Dev. 79281	16.2	133.2	2511	TC A.350
X	Front Seat, (Right) Piper Dev. 79287 (Right) Piper Dev. 79274-2	15.6 15.3	92.7 92.3	1446 1412	TC A.350 TC A.350
X	Center Seat (2) Piper Dev. 79287	23.8	128.4	2961	TC A.350
X	Aft Seat (2) Piper Dev. 79287	24.6	161.1	3983	TC A.350
X	Flight Manual & Logs	2.6	93.1	247	TC A.350
X	Cargo Door, Piper Dev. 79287	6.3	178.9	1183	TC A.350

Item	Description	Weight Lbs.	Area Aff. Dishes	Mount	Case Type
C Engine and Engine Accessories (Optional Equipment)					
_____	Vacuum Pump, Airborne Mfg. Co., Model No. 2000a and Drive	1.2	25.9	105	TC A350
_____	Oil Filter - Lycoming * 71528-LAC *GP1747702 *	1.3	29.4	97	TC 184
_____	Oil Filter - Lycoming * LW 13743 (Champion * CB48110) *	2.4	43.1	122	TC 184
_____	Vacuum Regulator, Airborne * Mod. No. 11144	4	17.0	24	TC A350
<u>X</u>	Vacuum Filter, Piper Desg. 66573	2	17.0	17	TC A350
<u>X</u>	Vacuum Pump, Airborne Mfg. Co., Model 21 1st & Drive, SAC 70399-0	1.4	25.9	88	TC A350
<u>X</u>	Low Vacuum Annunciator Light **	Neglig			TC A350
<u>X</u>	Vacuum Regulator, Airborne ** Mfg. Co., *203-19	5	17.0	24	TC A350

*Serial nos. 740001 through 740082

**Serial nos. 754001 and up

WEIGHTS TABLE

Item	Item	Weight Lbs.	Arm & S Distances	Moment	Cent. Base
B. Propeller and Propeller Assembly (Standard Equipment)					
1	Propeller, Standard MC-CYR-11, 1 6478-07*	4.00	12.1	4	TC 4180

*Weight and moment difference between standard and optional equipment.

**For serial numbers 744001 thru 744199 only.

Item	Item	Weight Lbs.	Arm, IN Datum	Moment	Lim. Inch
<p>1. Landing Gear and Brakes (Optional Equipment)</p>					
1	One Nose Wheel, 4-00-6	4 0.0	10.4	0	TC 4-00-6
<p>(a) Cleveland Aircraft Products Wheel Assembly No. 38201 (Low Brake Drum)</p>					
<p>(b) Tire 4-00-6, 6-Ply Rating</p>					

*Weight and moment difference between standard and optional equipment.

Qty	Item	Weight Lbs.	Avail. Alt. Density	Mounting	Con. Rate
I Electrical Equipment (Optional Equipment)					
X	Landing Light, G. E. Model 4128	2	1.24	1	TC A380
X	Navigation Light, (Red) (1) Cessna Model A2084 (White)	2	211.7	62	TSD C38
X	Navigation Light (2) Cessna Model A1282 (Red and Green)	4	106.8	43	TSD C38
X	Battery 12V, 35 A.H., Model B-35 (Weight 27.2 Lbs)	4 11.5	41.4	219	TC A380
X	Auxiliary Power Bracket, Piper Dev. 6881-1	2.6	68.4	126	TC A380
X	External Power Cable, Piper Dev. 6225-1	4.6	42.8	193	TC A380
X	Cabin Speaker, Piper Dev. 6229-1	.8	97.5	78	TC A380
X	Instrument Light (2), Cessna 13-0883-1	2	89.8	28	TC A380
X	Forward Baggage Light, Piper Dev. 6887	2	43.5	8	TC A380
X	Roosting Light (2), Cessna *13-0134-1	0.5	149.3	75	TC A380
X	Roosting Light (2), Cessna *13-0134-1	0.5	115.0	58	TC A380
X	Electric Trip, Piper Dev. 6878	4.6	191.5	643	TC A380
X	Road Front Reg., Piper Dev. 6579-1	.4	100.0	40	TC A380
X	Instrument Panel Light	.3	67.8	28	TC A380

Line Item	Description	Quantity	Unit Price	Total Price	Notes
Section 1: General Contract					
1	Excavation and Backfill	100	50.00	5,000.00	
2	Foundation Work	200	100.00	20,000.00	
3	Structural Steel Erection	100	150.00	15,000.00	
4	Roofing	500	20.00	10,000.00	
5	Interior Finishes	1000	100.00	100,000.00	
6	MEP Installation	300	100.00	30,000.00	
7	Site Work	50	50.00	2,500.00	
8	Project Management	100	100.00	10,000.00	
9	Contingency	100	100.00	10,000.00	
Section 2: Material Schedule					
10	Concrete	1000	100.00	100,000.00	
11	Rebar	500	50.00	25,000.00	
12	Steel	1000	100.00	100,000.00	
13	Roofing	500	20.00	10,000.00	
14	Interior Finishes	1000	100.00	100,000.00	
15	MEP	300	100.00	30,000.00	
16	Site Work	50	50.00	2,500.00	
17	Project Management	100	100.00	10,000.00	
18	Contingency	100	100.00	10,000.00	

Item	Part	Weight Lbs.	Approx. A/T Details	Quantity	Cost Rate
B. Radio Equipment (Optional Equipment) (cont)					
	_____	3.0	62.4	187	TC A.390
	_____	3.0	62.4	187	TC A.390
	_____	1.7	63.6	108	TC A.390
	_____	2.2	63.6	139	TC A.390
	_____	3.3	63.6	210	TC A.390
King KR-87 Digital ADF					
_____	Receiver	4.3	64.4	277	TC A.390
_____	Power Indicator	1.2	66.3	80	TC A.390
_____	Cable, Antenna	1.3	103.2	201	TC A.390
_____	Cable, Cable	1.8	124.0	223	TC A.390
_____	Antenna Amplifier	.4	94.1	43	TC A.390
_____	Cable, Antenna and Cable	.4	105.0	64	TC A.390
PH-1 Weather Beacon *					
_____	Receiver	1.1	121.3	132	TC A.390
_____	Receiver Unit	.3	128.4	39	TC A.390
_____	Cable	.3	83.0	26	TC A.390
DCB-24 Cable Reel					
_____	Receiver	2.4	37.4	90	TC A.390
_____	Cable	.6	49.3	30	TC A.390
_____	Antenna	.4	92.4	37	TC A.390
_____	Cable, Antenna	.3	100.0	30	TC A.390
Naval VDF-4 DME *					
_____	Receiver	8.5	61.7	324	TC A.390
_____	Antenna	.3	26.8	8	TC A.390
_____	Cable, Antenna	.4	68.0	19	TC A.390
Naval ATN-4 Transponder *					
_____	Panel Unit	2.0	64.4	129	TC A.390
_____	Receiver Unit	0.7	104.3	185	TC A.390
_____	Antenna and Cable	.3	128.9	69	TC A.390
_____	Cable, Interconnecting	.4	134.4	34	TC A.390

*Serial nos. 144001 through 144082

Item	Item	Weight Lbs.	Approx Volume	Material	Cost \$
M. Radio Equipment (Optional Equipment) (cont.)					
_____	None AT104 Transponder Power Unit	* 1.0	62.3	187	TC A.150
_____	King KN-110 Transponder Power Unit	2.1	63.1	196	TC A.150
_____	Antenna and Cable	-	-	-	TC A.150
_____	King KMA-201 1 Audio Feed	2.8	65.2	193	TC A.150
_____	Antenna	3	116.3	38	TC A.150
_____	Cable	4	90.0	34	TC A.150
_____	King KN-115 (1 VHF Transmitter	8.1	61.8	489	TC A.150
_____	King KN-73 Slide Switch Exciter	2.8	39.3	111	TC A.150
_____	King KN-77 VOR/LOC Component	3.1	38.7	120	TC A.150
_____	King KN-120 VOR/ILS Indicator	1.7	65.5	111	TC A.150
_____	King KN-115 (1 VHF Transmitter Class	1.8	61.8	489	TC A.150
_____	King KN-77 VOR/LOC Component	3.1	38.7	120	TC A.150
_____	King KN-120 VOR/ILS Indicator	1.7	65.5	111	TC A.150
_____	Piper Automatic Locator Transmitter, Piper Dwg. T92654	1.7	267.2	454	TC A.150
_____	Transmitter, Piper Dwg. T92654	1.3	267.2	347	TC A.150
_____	Antenna and Cable	2.1	233.4	51	TC A.150
_____	Shield and Access	2.3	268.4	88	TC A.150
_____	King KNVC DME Exciter	6.8	61.7	420	TC A.150
_____	Antenna	2	112.1	33	TC A.150
_____	Cable, Antenna	0.3	63.4	26	TC A.150

*Weight includes antenna and cable.

CHEROKEE SX-300

Item	Description	Weight Lbs.	Arm Aft Datum	Moment	Cont. Basis
M. Radio Equipment (Optional Equipment) (cont)					
—	Radio Selector Panel,* Piper Dwg. 88293	7	66.3	46	TC A350
X	Microphone, Piper Dwg. 88216-10	3	69.9	21	TC A350
—	Microphone (Dynamic) Piper Dwg. 88216-12	3	69.9	21	TC A350
X	Heater, Piper Dwg. 88216-10	3	65.0	33	TC A350

*Serial nos. 7440001 through 7440182

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MODEL: PA-22-300

ISSUED: MAY 14, 1973
REVISED: JUNE 20, 1974

Item	Description	Weight Lbs.	Arm Aff Dist ²	Moment	Dist. Type
M	Radio Equipment (Optional Equipment) (cont)				
_____	King KN-113 VOR, LOC/US Indicator *	2.5	64.8	162	TC A 150
_____	King KB-46 ADF *				
_____	Receiver	3.8	64.4	241	TC A 150
_____	Loop Antenna	1.5	113.2	290	TC A 150
_____	Loop Cable	1.3	124.0	161	TC A 150
_____	Audio Amplifier	0.8	54.1	43	TC A 150
_____	Inter Antenna & Cable	0.4	160.0	64	TC A 150
_____	King KB-46 ADF (Cont) *				
_____	Receiver	3.8	64.4	241	TC A 150
_____	Loop Antenna	1.5	113.2	290	TC A 150
_____	Loop Cable	1.3	124.0	161	TC A 150
_____	Inter Antenna & Cable	1.0	147.5	64	TC A 150
_____	King KN-61 DME *				
_____	Receiver	1.6	230.5	1752	TC A 150
_____	Antenna	0.2	112.1	22	TC A 150
_____	Cable, Antenna	0.3	85.6	26	TC A 150
_____	Indicator	1.0	66.3	66	TC A 150
_____	King KN-74 R-Nav *				
_____	Computer	3.7	62.6	232	TC A 150
_____	Cable Assy.	1.0	56.0	56	TC A 150
_____	Navco Comms 118 VHF Transmitter *	3.9	62.4	243	TC A 150
_____	Navco Dual Comms 118 VHF Transmitter *	7.8	62.4	487	TC A 150
_____	Navco Dual Comms 111 VHF Transmitter *	6.0	62.4	374	TC A 150
_____	King KN-61 DME	13.3	189.3	2520	TC A 150
_____	King KN-61A DME	13.8	185.4	2559	T50 C 146

*Serial nos. 714000 and up

EXERCISES 51A-51H

Item	Description	Weight Lbs.	Area A/S Square	Volume Cubic Feet	Cost Per Sq. Ft.
N. Miscellaneous Optional Equipment (cont.)					
<input checked="" type="checkbox"/>	Adjustable Front Seat (Left) P/Neg. Deg. T8300-0	* 4.8	85.1	14.1	TC A.390
<input checked="" type="checkbox"/>	(Right) P/Neg. Deg. T8300-0	* 4.8	84.7	14.0	TC A.390
<input checked="" type="checkbox"/>	Adjustable Front Seat (Right) P/Neg. Deg. T8300-1	* 4.8	84.3	14.0	TC A.390
<input checked="" type="checkbox"/>	(Left) P/Neg. Deg. T8300-1	* 4.8	84.1	14.0	TC A.390
<input type="checkbox"/>	Headrest (2) Front, P/Neg. Deg. T8300-17 or T8300-18	2.0	39.3	1.9	TC A.390
<input checked="" type="checkbox"/>	Headrest (2) Center, P/Neg. Deg. T8300-17 or T8300-18	2.0	112.1	2.4	TC A.390
<input checked="" type="checkbox"/>	Headrest (2) Rear, P/Neg. Deg. T8300-17 or T8300-18	2.0	109.7	2.4	TC A.390
<input type="checkbox"/>	Air Conditioning, P/Neg. Deg. T8750	64.2	113.8	7.0	TC A.390
<input type="checkbox"/>	Zero Clearance Floor	1.2	113.2	6.0	TC A.390
<input type="checkbox"/>	Custom Braided Kit	3.0	100.0	3.0	TC A.390
<input type="checkbox"/>	Radio/Seat Control Cable	-	-	-	TC A.390

TOTAL OPTIONAL EQUIPMENT **159.3 183.5 144.5**

*Weight and volume difference between standard and optional equipment.

EXTERIOR FINISH

Base Color SUNNY WHITE Registration No. Color BLU
 Trim Color BLACK FLAKE Type Finish LACQUER
 Accent Color SHINY BLUE