

# Thatcher CX5 Material List

## AIRCRAFT SPRUCE & SPECIALTY CO.

VENDER PHONE: 877-477-7823 E-MAIL: INFO@AIRCRAFTSPRUCE

QTY	SKU	DESCRIPTION	UNIT COST	PRICE - USD	
	1	1604-0412	Rivet, AVEX, Countersunk, 120°, 1/8" (Bulk - quantity 200)	16.20	16.20
	50	A1787-8Z-1D	Nut, Anchor, Size 8	0.31	15.50
	75	A6195-8Z-1D	Nut, Tinnerman, Size 8	0.37	27.75
	25	AN310-3	Nut, Castle, 10/32	0.62	15.50
	25	AN310-4	Nut, Castle, 1/4 x 28	0.79	19.75
	30	AN3-10A	Bolt, 10/32 x 1-1/32, Undrilled	0.14	4.20
	5	AN3-11A	Bolt, 10/32 x 1-5/32, Undrilled	0.18	0.90
	5	AN3-13	Bolt, 10/32 x 1-13/32, Drilled	0.70	3.50
	10	AN3-13A	Bolt, 10/32 x 1-13/32, Undrilled	0.19	1.90
	30	AN316-4R	Nut, Thin, R, 1/4 x 28	0.09	2.70
	10	AN3-4A	Bolt, 10/32 x 17/32, Undrilled	11.00	110.00
	10	AN3-5	Bolt, 10/32 x 21/32, Drilled	0.54	5.40
	10	AN3-5A	Bolt, 10/32 x 21/32, Undrilled	0.11	1.10
	100	AN364-632A	Nut, Thin, Elastic Stop, CAD, 6-32	0.32	32.00
	100	AN365-1032A	Nut, Elastic Stop, CAD, 10-32	0.09	9.00
	60	AN365-428A	Nut, Elastic Stop, CAD, 1/4 x 28	0.12	7.20
	20	AN365-524A	Nut, Elastic Stop, CAD, 5/16 x 24	0.15	3.00
	10	AN365-624	Nut, Elastic Stop, CAD, 3/8 x 24	0.26	2.60
	4	AN365-820A	Nut, Elastic Stop, CAD, 1/2 x 20	0.98	3.92
	50	AN365-832A	Nut, Elastic Stop, CAD, 8-32	0.12	6.00
	30	AN3-6A	Bolt, 10-32 x 25/32, CAD, Undrilled	0.12	3.60
	4	AN3-7	Bolt, 10-32 x 29/32, CAD, Drilled	0.49	1.96
	5	AN3-7A	Bolt, 10-32 x 29/32, CAD, Undrilled	0.12	0.60
	5	AN4-10A	Bolt, 1/4-28 x 1-1/32, CAD, Undrilled	0.23	1.15
	20	AN4-12A	Bolt, 1/4-28 x 1-9/32, CAD, Undrilled	0.23	4.60
	2	AN4-14	Bolt, 1/4-28 x 1-17/32, CAD, Drilled	0.69	1.38
	30	AN4-16A	Bolt, 1/4-28 x 1-25/32, CAD, Undrilled	0.38	11.40
	5	AN4-17A	Bolt, 1/4-28 x 1-29/32, CAD, Undrilled	0.35	1.75
	5	AN4-25A	Bolt, 1/4-28 x 1-17/32, CAD, Undrilled	0.42	2.10
	4	AN4-46	Bolt, 1/4-28 x 4-25/32, CAD, Drilled	1.95	7.80
	15	AN4-4A	Bolt, 1/4-28 x 17/32, CAD, Undrilled	0.15	2.25
	2	AN4-52	Bolt, 1/4-28 x 5-9/32, CAD, Drilled	9.67	19.34
	2	AN4-56	Bolt, 1/4-28 x 5-25/32, CAD, Drilled	8.97	17.94
	10	AN4-5A	Bolt, 1/4-28 x 21/32, CAD, Undrilled	0.18	1.80
	10	AN4-6A	Bolt, 1/4-28 x 25/32, CAD, Undrilled	0.16	1.60
	0.25	AN470AD-5-11	Rivet, Solid, 5/32 x 11/16 (Per Pound, <b>Required For Builder Constructed Spar</b> )	17.50	
	0.25	AN470AD-5-13	Rivet, Solid, 5/32 x 0.812 (Per Pound, <b>Required For Builder Constructed Spar</b> )	19.90	
	0.25	AN470AD-5-7	Rivet, Solid, 5/32 x 7/16 (Per Pound, <b>Required For Builder Constructed Spar</b> )	17.50	
	10	MS24694-S56	Screw (AN509-10R14), 10/32 x 29/32	0.16	1.60
	4	AN5-20A	Bolt, 5/16-24 x 2-3/32, CAD, Undrilled (Landing Gear Attach Bolts)	0.53	2.12
	10	AN525-10R12	Screw, Washer Head, 10-32 x 3/4	0.15	1.50
	5	AN525-10R14	Screw, Washer Head, 10-32 x 7/8	0.23	1.15
	30	AN526C-1032R10	Screw, Machine, SS, 10-32 x 5/8	0.15	4.50
	20	AN526C-632R8	Screw, Machine, SS, 6-32 x 1/2	0.06	1.20
	100	AN526C-632R6	Screw, Machine, SS, 6-32 x 3/8	0.07	7.00
	30	AN526C-832R10	Screw, Machine, SS, 8-32 x 5/8	0.09	2.70
	6	AN5-35A	Bolt, 5/16-24 x 3-23/32, CAD, Undrilled (Prop Bolts)	1.38	8.28
	2	AN5-7A	Bolt, 5/16-24 x 31/32, CAD, Undrilled (Aft Wing Attach Bolts)	0.31	0.62
	4	AN6-22A	Bolt, 3/8-24 x 2-11/32, CAD, Undrilled (Engine Mount Bolts)	0.83	3.32
	4	AN6-37A	Bolt, 3/8-24 x 3-31/32, CAD, Undrilled (Engine Mount Bolts)	1.59	6.36
	4	AN8-20A	Bolt, 1/2-20 x 2-3/32, CAD Undrilled (Wing Attach Bolts)	2.75	11.00
	75	AN960-10	Washer, Flat, 3/16	0.02	1.50
	50	AN960-416	Washer, Flat, 1/4	0.02	1.00
	100	CCP-32	Rivet, Cherry, 3/32 (Used on Anchor Nuts)	0.17	17.00
	4500	CCP-42	Rivet, Cherry, 1/8	0.07	315.00
	600	CCP-44	Rivet, Cherry, 1/8	0.07	42.00
	200	CCP-46	Rivet, Cherry, 1/8	0.12	24.00

Aircraft Spruce Page Subtotal 819.24

# Thatcher CX5 Material List

## AIRCRAFT SPRUCE & SPECIALTY (continued)

QTY	SKU	DESCRIPTION	UNIT COST	PRICE - USD
1	10371	Gascolator Bracket	21.50	21.50
1	10580	Fuel Gascolator	82.75	82.75
1	15000	Hobbs Meter	26.95	26.95
1	15144	Pitot-static tube	34.85	34.85
7	03-00185-8	Angle, 6061T6, 3/4 x 3/4 x 0.062 x 8'	19.68	137.76
2	03-02900	Tube, 4130, 1/2 x 0.120 (Per foot)	5.97	11.94
6	03-03800	Tube, 4130, 5/8 x 0.058 (Per foot)	3.99	23.94
4	03-04500	Tube, 4130, 3/4 x 0.058 (Per foot)	4.20	16.80
1	03-05500	Tube, 4130, 7/8 x 0.058 (Per foot)	4.55	4.55
7	03-09910	Sheet, 6061T6, 4' x 12' x 0.20	106.75	747.25
1	03-22650	Plate, Steel, 4130, 9" x 9" x .040	3.77	3.77
1	03-23050	Plate, Steel, 4130, 9" x 9" x .050	4.45	4.45
4	03-29910	Sheet, 6061T6, 4' x 12' x 0.25	115.75	463.00
2	03-30010	Sheet, 6061T6, 4' x 12' x 0.32	98.25	196.50
1	03-30150	Sheet, 6061T6, 2' x 4' x .063	32.50	32.50
3	03-31140	Sheet, 6061T6, 4' x 4' x 0.40	39.75	119.25
4	03-35750-8	Tube, 6061T6, 3/8" OD, 0.209 ID, 0.083 Wall x 8' (Control System)	21.60	86.40
2	03-36050-8	Tube, 6061T6, 5/8" OD, 0.509 ID, 0.058 Wall x 8' (Elevator Push/Pull)	29.60	59.20
1	03-42800-8	Bar, 2024T3, 1-1/2" x 1/8" x 8' ( <i>Req'd for Builder Constructed Spar</i> )	22.40	
3	03-43400	Bar, 2024T3, 1" x 1/4" (Per foot)	3.35	10.05
3	03-43600-8	Bar, 2024T3, 1-1/2" x 1/4" x 8' ( <i>Req'd for Builder Constructed Spar</i> )	39.12	
1	03-47200-8	Angle, 2024T3, 1" x 1" x 1/16" x 8'	30.00	30.00
5	03-47900-8	Angle, 6061T6, 3/4" x 3/4" x 1/8" x 8' (Fuselage)	7.36	36.80
3	03-48000-8	Angle, 6061T6, 1" x 1" x 1/8" x 8'	10.80	32.40
2	03-48100-8	Angle, 6061T6, 1-1/2" x 1-1/2" x 1/8" x 8' (Fuselage)	14.00	28.00
7	03-48200-8	Angle, 6061T6, 1-1/2" x 1-1/2" x 3/16" x 8' ( <i>Req'd for Builder Constructed Spar</i> )	19.60	
2	03-48200-8	Angle, 6061T6, 1-1/2" x 1-1/2" x 3/16" x 8' (Fuselage)	19.60	39.20
28	05-01012	Tubing, Nylon, 3/8" OD (Per foot)	0.74	20.72
3	05-01150	Fitting, Pushrod End, 0.058 (Elevator Tubes)	9.90	29.70
32	05-04300	Cable, SS, 1/8" (Per foot)	1.21	38.72
1	05-04877	Nav/Strobe Set, AVEO Power Burst	472.00	472.00
2	05-08160	Vernier Control, A-790, 60"	76.80	153.60
20	05-15500	Cable, Bowden (Per foot) (Controls)	2.35	47.00
4	05-29909-9	SCAT Ducting 2-1/4" (Per foot)	9.60	38.40
2	05-29912-12	SCAT Ducting 3" (Per foot)	10.50	21.00
3	06-00755	Tire Tube, 90° Valve, 5.00-5	56.75	170.25
2	06-07710	Tire, Goodyear, Flight Special II, 5.00-5	102.75	205.50
2	10350-9	Flange, Duct, 2-1/4"	11.60	23.20
1	11-03161	Relay, Master, 12VDC	26.50	26.50
1	11-08080	Battery, Odyssey, PC625	106.67	106.67
1	11-123	Switch, SPDT (ON-OFF-ON)	4.70	4.70
2	13-00401	Seat Belt, Black, 2" x 56" (Several colors available)	59.75	119.50
2	13-00801	Shoulder Harness, Black (Several colors available)	81.65	163.30
4	AN100C-4	Cable Thimble, SS, 3/32 (1/8")	0.24	0.96
1	AN3027-7	Master Switch, DPDT (MS35059-27)	24.95	24.95
8	FMN10	Bearing, Nylon, 5/8"	0.80	6.40
2	MCMC-4A	Master Brake Cylinder, Matco	94.75	189.50
30	MM-4	Bearing, Rod End, Heim	6.85	205.50
3	MS20001P5-6	Piano Hinge, 1-3/4" x 0.051 x 6'	63.80	191.40
20	MS21059-L4	Nut, Anchor, Floating, Two Lug, 1/4-28	1.08	21.60
25	MS21059-L3	Nut, Anchor, Floating, Two Lug, 10-32	0.72	18.00
100	MS24665-134	Cotter Pin, CAD, 1/16 x 3/4	0.03	3.00
4	05-03290	Nico Sleeve, Copper, 1/8" (18-3-M) (MS51844-44)	0.39	1.56
1	11-03924	Circuit Breaker, Tyco, 10A (W23X1A1G10)	21.75	21.75
1	11-03927	Circuit Breaker, Tyco, 20A (W23X1A1G20)	21.75	21.75
2	11-03931	Circuit Breaker, Tyco, 10A (W31X2M1G10)	24.85	49.70
2	11-03936	Circuit Breaker, Tyco, 5A (W31X2M1G5)	24.85	49.70

<b>Aircraft Spruce Page Subtotal</b>	<b>4,696.34</b>
--------------------------------------	-----------------

# Thatcher CX5 Material List

## AIRCRAFT SPRUCE & SPECIALTY (continued)

QTY	SKU	DESCRIPTION	UNIT COST	PRICE - USD
<b>Fuel System Parts</b>				
8	6506	Clamps	0.92	7.36
1	6749	Fuel Valve, 3 port	26.65	26.65
2	10610	Fuel Cap, Flush, Vented	57.75	115.50
2	09-38510	Pro-Seal, 3.5 oz	19.90	39.80
2	10-01501	Universal Probe Mount	8.75	17.50
6	05-04712	Fire Sleeve, 1/2" (Per Foot)	6.90	41.40
6	306-4	Hose, Aeroquip, 1/4" ID (Per foot)	2.40	14.40
4	471-6D	Fitting Set, Aeroquip, 3/8"	8.85	35.40
2	AN815-6D	Union, Aluminum, 3/8 OD Flared Tube	3.35	6.70
3	AN816-6D	Nipple, Aluminum, 3/8 OD Flared Tube & 1/4 Pipe Thread	2.85	8.55
12	AN818-6D	Nut, Coupling, 3/8 OD Flared Tube	0.91	10.92
12	AN819-6D	Sleeve, Aluminum, 3/8 OD Tube	0.76	9.12
2	AN821-6D	Elbow, Aluminum, 90°, 3/8 OD Flared Tube	13.90	27.80
2	AN822-6D	Elbow, Aluminum, 90°, 3/8 OD Flared Tube & 1/4 Pipe Thread	7.95	15.90
1	AN823-6D	Elbow, Aluminum, 45°, 3/8 OD Flared Tube & 1/4 Pipe Thread	8.75	8.75
1	AN833-6D	Elbow, Bulkhead, Aluminum, 3/8 OD Flared Tube	11.60	11.60
6	AN867-1	Weld Flange, 1/8" Drain Fitting	7.60	45.60
1	AN924-6D	Nut, Aluminum, 3/8" Tube OD	0.93	0.93
4	CAV-110	Drain Valve, Fuel, Saf-Air, Push Type	14.50	58.00
2	05-04045	Drain Valve, Curtis, 1/8" NPT, Twist Type, CCA-1250	12.50	25.00
<b>Aircraft Spruce Page Subtotal</b>				<b>526.88</b>
<b>Aircraft Spruce Total</b>				<b>6,042.46</b>

## WICKS AIRCRAFT SUPPLY

VENDER PHONE: 800-221-9425 E-MAIL: INFO@WICKAIRCRAFT.COM

QTY	SKU	DESCRIPTION	UNIT COST	PRICE - USD
6	BR1/8x1-1/2-41	4130 Steel Bar - 1/8" x 1-1/2" (Per foot, <i>Req'd for Builder Constructed Spar</i> )	2.75	
6	BR1/4x1-1/2-41	4130 Steel Bar - 1/4" x 1-1/2" (Per foot, <i>Req'd for Builder Constructed Spar</i> )	9.15	
1	TR100-040	Tire, Shin 11 x 4.00 x 5 (Nose Wheel)	35.16	35.16
<b>Wicks Aircraft Total</b>				<b>35.16</b>

## GREAT PLAINS AIRCRAFT SUPPLY

PHONE: 800-922-6507 E-MAIL: INFO@GREATPLAINSAS.COM

QTY	SKU	DESCRIPTION	UNIT COST	PRICE - USD
2		Aluminum Wheels - 5" with 3/4" Bearings	47.95	95.90
1		Aluminum Wheel - 5" with 5/8" Sealed Bearings	32.35	32.35
1		Axles - 3/4" Pre-welded (Set of two)	69.95	69.95
1		Spinner Set - 12"	147.00	147.00
1		CX5 Landing Gear	500.00	500.00
4		Exhaust Pipes - 180°, 1.375"	9.00	36.00
2		Exhaust Pipe - 2' Straight, 1.375"	9.00	18.00
4		Exhaust Welding Flanges - 1.375"	5.95	23.80
1		UMA Analog Tach 2-1/2" (6 pulses/revolution)	279.95	279.95
1		Facet Fuel Pump - 4 psi	34.95	34.95
1		VDO Voltmeter	35.60	35.60
1		VDO Oil Pressure Gauge and Sender	79.05	79.05
1		VDO Oil Temperature Gauge and Sender	47.95	47.95
1		VDO CHT Gauge and Sender	130.60	130.60
1		Zenith Carburetor Mount Flange	6.95	6.95
1		21/22 Zenith Carburetor	430.09	430.09
<b>Great Plains Aircraft Total</b>				<b>1,968.14</b>

# Thatcher CX5 Material List

## MISCELLANEOUS

QTY	SKU	DESCRIPTION	UNIT COST	PRICE - USD
<b>Parts from Thatcher Aircraft</b>				
1		CX5 Plans and Builder Manual	475.00	475.00
<b>Part from Todds Canopies (Phone: 954-579-0874)</b>				
1		CX5 Canopy	450.00	450.00
<b>Parts from Westberry Manufacturing LLC (Phone: 423-667-9708)</b>				
1		CX5 Spar Assembly	2200.00	2,200.00
1		CX5 Windshield	85.00	85.00
1		Nose Strut, 4130 Steel Tube, 1.125" x .0188, pre-bent with machined plug <i>For builder constructed Strut, order 4130 steel tube (0.125 x 0.188 x 5 ft.) from OnLine Metals.com (91.89)</i>	162.00	162.00
1		Nose Wheel Fork Assembly <i>For builder constructed Fork, order 6061T6 square tube (5" x 1/4" x 1 ft.) from OnLine Metals.com (35.75)</i>	325.00	325.00
1		Belleville Washers - 1 Set	32.00	32.00
8	NF35-2-1/2	Nylon Bearing Set	2.50	20.00
3	NF46-3	Nylon Bearings	2.50	7.50
2		Tie Down Rings	6.00	12.00
<b>Parts from Earnest Martin (Phone: 828-230-5378)</b>				
1		Wheel Fairing Set (3 pcs)	300.00	300.00
1		Cowling	660.00	660.00
1		Wing and Elevator Tip Set (4 pcs)	176.00	176.00
<b>Parts - Other:</b>				
1	T-8071-3	Engine Baffle Material, 1 roll (from www.brownaircraft.com)	85.85	85.85
1	4C814	Blower Motor (From Grainger)	157.25	157.25
1	H6200-1MP	Check Valve (from http://valvecheckinc.com)		0.00
1		Galvanized Tin, 2' x 3' - 26 gage for firewall (from hardware store)	10.00	10.00
3		Aluminum Bar, 1/2" x 1/8" x 6' (from hardware store)	0.00	0.00
6		Metric Screws, M6-1.00 x 16 (from hardware store)	0.00	0.00
1		Window Motor, Dorman 741-565 (from Ebay)	60.56	60.56
1	035727-10	Moeller Black Face Fuel Gauge, 33 to 260 ohms	31.19	31.19
2	35729-10	Moeller Sending Unit, 12" to 24"	27.84	55.68
1	FF1314-02	Bunting Bearing, 1-1/8" ID	5.00	5.00
1	EF1012-10	Bunting Bearing Set, 5/8"	3.00	3.00
<b>Miscellaneous Total</b>				<b>5,313.03</b>

## ENGINE, MOUNT & PROPELLER

QTY	SKU	DESCRIPTION	UNIT COST	PRICE - USD
1		Revmaster 2300 engine - 760-244-3074	7685.00	7,685.00
1		Engine Mount (Order from Ed Klepeis, Tech Welding, Paducah, Kentucky Shop Phone: (270) 898-3776 Email: techwelding@comcast.net	440.00	440.00
1		Tennessee Propeller - 706-398-0651	440.00	440.00
<b>Engine &amp; Propeller Total</b>				<b>8,565.00</b>

**Parts Total (All Pages) 21,923.79**