

Shier Aviation Corporation

Repair Station No. IVSR655S
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San Diego, CA 92123
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Date: 7/26/2016, 2:07 PM

CUSTOMER INFORMATION**City of Fresno Police Department**

4941 E Anderson Ste B-101
Fresno, CA 93727
Reg. No: N524MW
2004 Airbus EC120B
Current A/C TT: , A/C Landings:
A/C Serial: 1371

Customer Estimate
Work Order Quote: Q227

AUTHORIZE

☐ Yes ☐ No**Item: 1 - Airworthy Airframe****Discrepancy & Corrective Action**

Preliminary / Hidden damage inspection to be performed.

Hours**Subtotal**

0.00

0.00

Labor: \$0.00**Parts:** \$0.00**Shipping:** \$0.00**Item Subtotal:** \$0.00

AUTHORIZE

☐ Yes ☐ No**Item: 2 - Airworthy Airframe****Discrepancy & Corrective Action**

Remove, ship and paint M/R Blades

Hours**Subtotal**

0.00

0.00

Outside Repair:

International Aviation Composites, Labor: 14,242.47, Parts: 0.00, Shipping: 550.00

Labor: \$14,242.47**Parts:** \$0.00**Shipping:** \$550.00**Item Subtotal:** \$14,792.47

AUTHORIZE

☐ Yes ☐ No**Item: 3 - Airworthy Airframe****Discrepancy & Corrective Action**

Lubricate flight control bearings.

Hours**Subtotal**

0.00

0.00

Labor: \$0.00**Parts:** \$0.00**Shipping:** \$0.00**Item Subtotal:** \$0.00

AUTHORIZE

☐ Yes ☐ No**Item: 4 - Airworthy Airframe****Discrepancy & Corrective Action**

Weigh aircraft and revise weighing records.

Hours**Subtotal**

0.00

0.00

Labor: \$0.00**Parts:** \$0.00**Shipping:** \$0.00**Item Subtotal:** \$0.00

AUTHORIZE

☐ Yes ☐ No**Item: 5 - Airworthy Airframe****Discrepancy & Corrective Action**

SB 05-004 Check of the horizontal Stabilizer drain holes to be performed.

Hours**Subtotal**

0.00

0.00

Labor: \$0.00**Parts:** \$0.00**Shipping:** \$0.00**Item Subtotal:** \$0.00

AUTHORIZE

☐ Yes ☐ No**Item: 6 - Airworthy Airframe****Discrepancy & Corrective Action**

SB 05A006 Tail rotor drive shaft damper friction ring to be performed.

Hours**Subtotal**

0.00

0.00

Labor: \$0.00**Parts:** \$0.00**Shipping:** \$0.00**Item Subtotal:** \$0.00

AUTHORIZE

☐ Yes ☐ No**Item: 7 - Airworthy Airframe****Discrepancy & Corrective Action**

SB 05-007 Calendar check for corrosion on the main rotor head attach beams to be performed.

Hours**Subtotal**

3.00

300.00

Labor: \$300.00**Parts:** \$0.00**Shipping:** \$0.00**Item Subtotal:** \$300.00

AUTHORIZE
☐ Yes ☐ No

Item: 8 - Airworthy Airframe

Discrepancy & Corrective Action	Hours	Subtotal
SB 05-009 lubrication of the couplings of the rotating and non rotating scissors to be performed.	0.00	0.00

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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AUTHORIZE
☐ Yes ☐ No

Item: 9 - Airworthy Airframe

Discrepancy & Corrective Action	Hours	Subtotal
SB 05A012 Check for crack in main rotor hub to be performed.	0.00	0.00

Labor: \$0.00	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$0.00
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AUTHORIZE
☐ Yes ☐ No

Item: 10 - Airworthy Airframe

Discrepancy & Corrective Action	Hours	Subtotal
ASB EC120-52A014 attachment of the sliding door star support to be performed.	10.00	1,000.00

Qty	Unit	Part Number	Description	Unit Price	Subtotal
3	EA	ASNA0077E403	Rivet (Taxed)	3.69	11.07
1	EA	C008A005650071	Parts kit for ASB EC120-52A014 (Taxed)	187.50	187.50

Labor: \$1,000.00	Parts: \$198.57	Shipping: \$0.00	Item Subtotal: \$1,198.57
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AUTHORIZE
☐ Yes ☐ No

Item: 11 - Airworthy Airframe

Discrepancy & Corrective Action	Hours	Subtotal
ASB EC120-53A015 Rev 1 Corrosion on the tailboom to be performed.	4.00	400.00

Qty	Unit	Part Number	Description	Unit Price	Subtotal
4	EA	23134AG100LE	Washer (Taxed)	0.72	2.88
1		7050A3710013	Spring (Taxed)	95.22	95.22
2	EA	7052A3632247	Seal, Type T (Taxed)	68.80	137.60
1		706A34560017	Boot, sealing (Taxed)	58.40	58.40
2	EA	A0164TK050S014X	Special Screw (Taxed)	6.55	13.10
5	EA	ASN52320BH060N	Nut (Taxed)	3.72	18.60
1	EA	ASNA0033-090	Clamp (Taxed)	6.01	6.01
4	EA	ASNA0045-100BCL	Nut (Taxed)	8.56	34.24
4		ASNA0078E504	Rivet (Taxed)	3.36	13.44
4	EA	ASNA0265-100	washer (Taxed)	12.38	49.52
1	EA	C008A153306800-4801	Drill Fixture(Rental) (Taxed)	200.00	200.00
1	EA	C533A7190101	Plate, reinforcement assy. (Taxed)	215.74	215.74
1	EA	C533A7190202	Dish (Taxed)	104.48	104.48
1		C714A1112201	Washer, Centering (Taxed)	157.51	157.51
4	EA	C714A1112202	Bolt, splecial (Taxed)	214.25	857.00
1		C714A1112203	Cross Beam (Taxed)	257.00	257.00
3	EA	ECS2151DXJ3206	Rivet (Taxed)	0.03	0.09
3	EA	ECS2152DXJ3210	Rivet (Taxed)	0.16	0.48

Labor: \$400.00	Parts: \$2,221.31	Shipping: \$0.00	Item Subtotal: \$2,621.31
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AUTHORIZE
☐ Yes ☐ No

Item: 12 - Airworthy Airframe

Discrepancy & Corrective Action	Hours	Subtotal
SB 71-005 engine mount spring suspension to be performed.	14.00	1,400.00

Qty	Unit	Part Number	Description	Unit Price	Subtotal
4	EA	23134AG100LE	Washer (Taxed)	0.72	2.88
1		7050A3710013	Spring (Taxed)	95.22	95.22

2 EA	7052A3632247	Seal, Type T (Taxed)	68.80	137.60
1	706A34560017	Boot, sealing (Taxed)	58.40	58.40
2 EA	A0164TK050S014X	Special Screw (Taxed)	9.63	19.26
5 EA	ASN52320BH060N	Nut (Taxed)	3.69	18.45
1 EA	ASNA0033-090	Clamp (Taxed)	6.01	6.01
4 EA	ASNA0045-100BCL	Nut (Taxed)	8.56	34.24
4	ASNA0078E504	Rivet (Taxed)	3.36	13.44
4 EA	ASNA0265-100	washer (Taxed)	12.38	49.52
1 EA	C008A153306800-4801	Drill Fixture(Rental) (Taxed)	200.00	200.00
1 EA	C533A7190101	Plate, reinforcement assy. (Taxed)	215.74	215.74
1 EA	C533A7190202	Dish (Taxed)	104.48	104.48
1	C714A1112201	Washer, Centering (Taxed)	157.51	157.51
4 EA	C714A1112202	Bolt, splecial (Taxed)	214.25	857.00
1	C714A1112203	Cross Beam (Taxed)	257.00	257.00
3 EA	ECS2151DXJ3206	Rivet (Taxed)	0.03	0.09
3 EA	ECS2152DXJ3210	Rivet (Taxed)	0.16	0.48

Labor: \$1,400.00 **Parts:** \$2,227.32 **Shipping:** \$0.00 **Item Subtotal:** \$3,627.32

AUTHORIZE

☐ Yes ☐ No

Item: 13 - Airworthy Airframe

Discrepancy & Corrective Action

AD 2010-05-51 Main rotor head to be performed.

Hours	Subtotal
0.00	0.00

Labor: \$0.00 **Parts:** \$0.00 **Shipping:** \$0.00 **Item Subtotal:** \$0.00

AUTHORIZE

☐ Yes ☐ No

Item: 14 - Airworthy Airframe

Discrepancy & Corrective Action

AD 2014-12-12 Sliding door star to be performed.

Hours	Subtotal
0.00	0.00

Labor: \$0.00 **Parts:** \$0.00 **Shipping:** \$0.00 **Item Subtotal:** \$0.00

AUTHORIZE

☐ Yes ☐ No

Item: 15 - Airworthy Airframe

Discrepancy & Corrective Action

AD 2009-14-01 P3 air pipe to be performed.

Hours	Subtotal
0.00	0.00

Labor: \$0.00 **Parts:** \$0.00 **Shipping:** \$0.00 **Item Subtotal:** \$0.00

AUTHORIZE

☐ Yes ☐ No

Item: 16 - Airworthy Airframe

Discrepancy & Corrective Action

AD 2012-07-09 P3 air pipe to be performed.

Hours	Subtotal
0.00	0.00

Labor: \$0.00 **Parts:** \$0.00 **Shipping:** \$0.00 **Item Subtotal:** \$0.00

AUTHORIZE

☐ Yes ☐ No

Item: 17 - Airworthy Airframe

Discrepancy & Corrective Action

ICA inspections of the FLIR and PA systems to be performed.

Hours	Subtotal
2.00	200.00

Labor: \$200.00 **Parts:** \$0.00 **Shipping:** \$0.00 **Item Subtotal:** \$200.00

AUTHORIZE

☐ Yes ☐ No

Item: 18 - Airworthy Airframe

Discrepancy & Corrective Action

Flight related checks of the day to be performed.

Hours	Subtotal
0.00	0.00

Labor: \$0.00 **Parts:** \$0.00 **Shipping:** \$0.00 **Item Subtotal:** \$0.00

AUTHORIZE ☐ Yes ☐ No	Item: 19 - Airworthy Airframe
Discrepancy & Corrective Action 15 FH//7 D inspection to be performed.	
Hours	Subtotal
0.00	0.00
Labor: \$0.00	Parts: \$0.00 Shipping: \$0.00 Item Subtotal: \$0.00

AUTHORIZE ☐ Yes ☐ No	Item: 20 - Airworthy Airframe
Discrepancy & Corrective Action Inspections-Optional equipment to be performed.	
Hours	Subtotal
2.00	200.00
Labor: \$200.00	Parts: \$0.00 Shipping: \$0.00 Item Subtotal: \$200.00

AUTHORIZE ☐ Yes ☐ No	Item: 21 - Airworthy Airframe
Discrepancy & Corrective Action 15 FH//7 D inspection of optional parts to be performed.	
Hours	Subtotal
0.00	0.00
Labor: \$0.00	Parts: \$0.00 Shipping: \$0.00 Item Subtotal: \$0.00

AUTHORIZE ☐ Yes ☐ No	Item: 22 - Airworthy Airframe
Discrepancy & Corrective Action Scheduled maintenance with specific intervals-Inspections/Checks to be performed.	
Hours	Subtotal
2.00	200.00
Labor: \$200.00	Parts: \$0.80 Shipping: \$0.00 Item Subtotal: \$200.80

AUTHORIZE ☐ Yes ☐ No	Item: 23 - Airworthy Airframe
Discrepancy & Corrective Action 100 FH//12 M Airframe inspection to be performed.	
Hours	Subtotal
6.00	600.00
Labor: \$600.00	Parts: \$0.00 Shipping: \$0.00 Item Subtotal: \$600.00

AUTHORIZE ☐ Yes ☐ No	Item: 24 - Airworthy Airframe
Discrepancy & Corrective Action 500 FH//24 M airframe inspection to be performed.	
Hours	Subtotal
125.00	12,500.00
Labor: \$12,500.00	Parts: \$139.20 Shipping: \$0.00 Item Subtotal: \$12,639.20

AUTHORIZE ☐ Yes ☐ No	Item: 25 - Airworthy Airframe
Discrepancy & Corrective Action 1500 FH//72 M Airframe inspection to be performed.	
Hours	Subtotal
50.00	5,000.00
Labor: \$5,000.00	Parts: \$662.72 Shipping: \$0.00 Item Subtotal: \$5,662.72

AUTHORIZE
☐ Yes ☐ No

Item: 26 - Airworthy Airframe

Discrepancy & Corrective Action

144 month airframe inspection to be performed.

Hours 100.00
 Subtotal 10,000.00

Qty	Unit	Part Number	Description	Unit Price	Subtotal
9	EA	22201BC050004L	Screw (Taxed)	2.68	24.12
15	EA	22201BC060007L	Bolt (Taxed)	4.49	67.35
34	EA	22201BE060011L	Bolt (Taxed)	4.78	162.52
2	EA	22201BE080015L	Screw (Taxed)	21.21	42.42
2	EA	22202BE080074L	Screw (Taxed)	23.91	47.82
2	EA	22202BE080086L	Screw (Taxed)	23.19	46.38
2	EA	22252TK050013X	Screw (Taxed)	17.04	34.08
86	EA	22256BE060020L	Screw (Taxed)	2.91	250.26
7	EA	22256TK050014X	Screw (Taxed)	11.32	79.24
6	EA	22256TK050018X	Screw (Taxed)	5.09	30.54
3	EA	22731BE060020M	Bolt - T/R Pitch control (Taxed)	33.19	99.57
8	EA	23111AG050LE	Washer (Taxed)	0.35	2.80
10	EA	23111AG080LE	Washer (Taxed)	0.39	3.90
2	EA	23111CA050	Washer (Taxed)	0.13	0.26
10	EA	23112CA050	WASHER (Taxed)	1.72	17.20
6	EA	23116CA050	Washer (Taxed)	1.42	8.52
2	EA	23119AG080LE	Washer (Taxed)	8.25	16.50
34	EA	23142AG060LE	Washer (Taxed)	3.08	104.72
2	EA	350A37-1163-20	cup (Taxed)	132.74	265.48
9	EA	A0164TK050S010X	Screw (Taxed)	7.59	68.31
1	EA	AN4-14A	Bolt (Taxed)	0.83	0.83
5	EA	ASN52320BH050N	Nut (Taxed)	3.72	18.60
9	EA	ASN52320BH060N	Nut (Taxed)	3.72	33.48
2	EA	ASN52320BH080N	Nut (Taxed)	4.60	9.20
3	EA	ASNA0045-060BCL	Nut, Hexagon (Taxed)	4.66	13.98
6	EA	ASNA0045-080BCL	Nut (Taxed)	8.48	50.88
5	EA	ASNA0222A0501	Nut (Taxed)	1.43	7.15
3	EA	ASNA0265-060	washer (Taxed)	6.67	20.01
1	EA	C281C4010203	Screw (Taxed)	189.62	189.62
3	EA	C622A1017202	Cloth (Taxed)	16.94	50.82
6	EA	C622A2027101	Lock washer (Taxed)	15.20	91.20
10	EA	DHS411-099.5005	Screw (Taxed)	17.71	177.10
1	EA	DHS411-101-2072	Bolt (Taxed)	44.23	44.23
4	EA	DHS613-261.22	Seal (Taxed)	0.30	1.20
5	EA	EN2138-05010	Washer, Plain (Taxed)	1.89	9.45
1	EA	MS21042L4	Nut (Taxed)	0.89	0.89
1	EA	SL211M5-1	Clip Nut (Taxed)	3.75	3.75
2	EA	SL40568M8C	Nut (Taxed)	361.00	722.00
2	EA	SLR40568-M8	Spring (Taxed)	21.04	42.08

Labor: \$10,000.00 Parts: \$2,858.46 Shipping: \$0.00 Item Subtotal: \$12,858.46

AUTHORIZE
☐ Yes ☐ No

Item: 27 - Airworthy Airframe

Discrepancy & Corrective Action

Comply with ground run, leak check, global vibration check of engine, main rotor balance, tail rotor balance and chapter 8 flight check.

Hours 4.00
 Subtotal 400.00

Labor: \$400.00 Parts: \$0.00 Shipping: \$0.00 Item Subtotal: \$400.00

AUTHORIZE	
☐ Yes	☐ No

Item: 28 - Airworthy Airframe

Discrepancy & Corrective Action	Hours	Subtotal
100 hour engine inspection to be performed.	4.00	400.00

Qty	Unit	Part Number	Description	Unit Price	Subtotal
1	EA	9794410224	O-ring (Taxed)	23.04	23.04
1	EA	9794410236	O-ring (Taxed)	8.05	8.05

Labor: \$400.00	Parts: \$31.09	Shipping: \$0.00	Item Subtotal: \$431.09
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AUTHORIZE	
☐ Yes	☐ No

Item: 29 - Airworthy Airframe

Discrepancy & Corrective Action	Hours	Subtotal
Complete re-paint of helicopter in tri color scheme.	0.00	0.00

Outside Repair:
Master Aircraft Services, Labor: 20,443.65, Parts: 0.00, Shipping: 0.00

Labor: \$20,443.65	Parts: \$0.00	Shipping: \$0.00	Item Subtotal: \$20,443.65
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Additional Charges							Subtotal
Pilot Services	Tire Disposal	EPA Charge	Oil Analysis	Shop Supplies	Fuel	Misc.	
0.00	0.00	0.00	0.00	652.00	0.00	0.00	\$652.00

It will take an estimated 326.00 hours to complete the necessary work. **Total Labor:** \$67,286.12

Taxed Items: **Total Parts:** \$8,339.46

Shop Parts, OSR Parts, Shop Supplies **Total Shipping:** \$550.00

Additional Charges: \$652.00

Tax: \$719.32

Total Estimate Before Deposit: \$77,546.90

Deposits & Credits: \$0.00

Total Estimate:	\$77,546.90
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Important Information

City of Fresno Police Department or Authorized Representative

Date