

JI 259  
Rev. 05-12-00

PACKING ROOM CHECK SHEET  
ENGINE UNIT  
250-C30, ALL MODELS

ENGINE S/N CAE-895940  
~~250 C30 P/N 2300000~~  
~~250 C30 (HLD) P/N 2300000~~  
~~250 C30 P/N 23030781~~  
~~250 C30 P/N 23053000~~  
~~250 C30 P/N 23000000~~  
~~250 C30 P/N 23000000~~  
~~250 C30 P/N 23000000~~  
250-C30P ( ) P/N 23062065

Date 9-29-00 Contract or P/O \_\_\_\_\_

Weight 241.0 TSLO NEW TT NEW

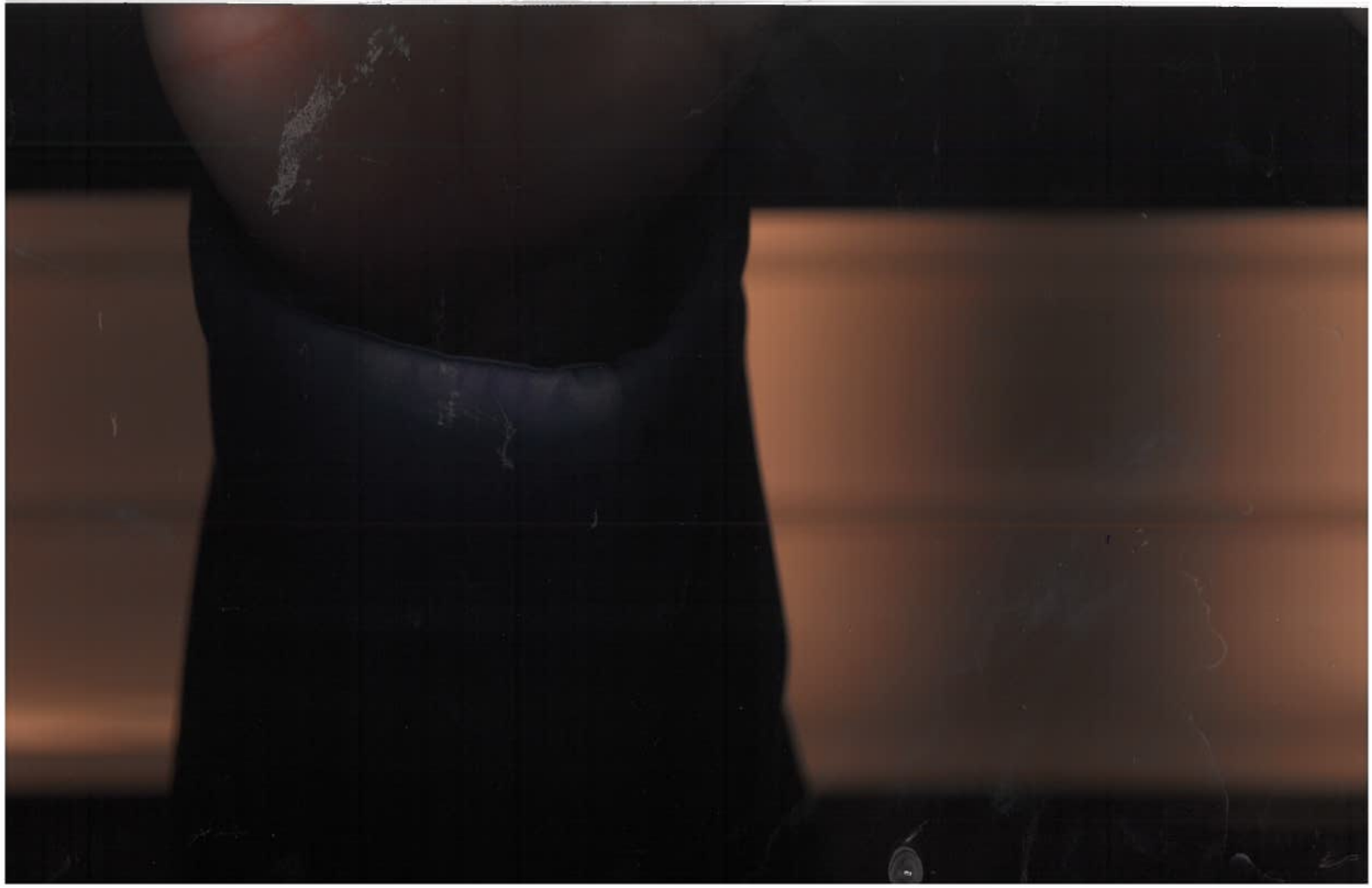
Date Shipped \_\_\_\_\_ Destination \_\_\_\_\_  
S.O. \_\_\_\_\_

Shipped with: G/B S/N CAG-95949 Comp. S/N CAC-92152 Turb. S/N CAT-98373

Part Name	Part No.	S/N	Part Name	Part No.	S/N
FUEL CONTROL GAS PRODUCER	<del>23065146</del> <del>23065147</del> 23070613	BR58122	BLEED VALVE	23005366	FF59388
GOVERNOR POWER TURBINE	<del>23057873</del> 23065125 <del>23057826</del>	BR43226	N2 OVERSPEED CONTROL	23054053	N/A
FUEL PUMP	23070460 <del>6896822</del> <del>6896810</del> 23065134	J600AKW0136	N2 OVERSPEED VALVE ASSY.	23007826	N/A
			N1 PICKUP	23007979	N/A
FUEL NOZZLE	6899001	1NRD5720	N2 PICKUP	23007980 23007981	N/A

NEW () OVERHAUL ( ) REPAIR ( ) MODIFICATION ( )

Inspector GEORGE SCALF Certified Inspector \_\_\_\_\_



JI-260  
REV. 10-09-91

PACKING ROOM CHECK SHEET  
GEAR BOX  
250-C30, ALL MODELS

GEAR BOX S/N CAG-95949  
~~250-C30 P/N 23035178~~  
~~250-C30 P/N 23035181~~  
250-C30P P/N 23035178  
~~250-C30 P/N 23035180~~  
~~250-C30 P/N 23035182~~  
~~250-C30 P/N 23035183~~

DATE 9-29-00 CONTRACT OR P/O \_\_\_\_\_

DATE SHIPPED \_\_\_\_\_ DESTINATION \_\_\_\_\_ S.O. \_\_\_\_\_

SHIPPED WITH: ENGINE CAE-895940 TSLO NEW TT NEW

PART NAME	PART NO.	S/N

NEW ( 4 ) OVERHAUL ( ) REPAIR ( ) MODIFICATION ( )

Inspector GEORGE SCALF

Certified Inspector \_\_\_\_\_

JI 262  
Rev. 03-12-98

PACKING ROOM CHECK SHEET  
TURBINE UNIT  
250-C30. ALL MODELS

TURBINE S/N CAT- 98373  
250-C30 P/N 23035128  
~~250-C30 P/N 23035128~~  
~~250-C30 P/N 23035128~~  
~~250-C30 P/N 23035128~~

Date 9-29-00 Contract or P/O \_\_\_\_\_

Date Shipped \_\_\_\_\_ Destination \_\_\_\_\_ S.O. \_\_\_\_\_

Shipped with: Engine S/N CAE 895940 TSLO NEW TT NEW

Part Name	Part No.	S/N	Part Name	Part No.	S/N
Gas Turbine Rotor Assy.	<del>23051055*</del> <del>23062033</del> 23031913	32694	Power Turbine Rotor Assy.	6898683	46733
1st Stage Wheel	<del>23039075*</del> 23053299	X145887	3rd Stage Wheel	6898663	HX93306
2nd Stage Wheel	<del>23039077*</del> 23032280	HX129141	4th Stage Wheel	23066744	HX76674
1st Stg Nozzle (C30U Only)	23039086	N/A	Turb. Spline Adapter (C30U) only	23039074	N/A
Turb.-to-Comp. Coupling (C30U only)	23039073	N/A			

\*C30U Only

NEW () OVERHAUL ( ) REPAIR ( ) MODIFICATION ( ) CORRELATION ( )

Inspector GEORGE SCALF Certified Inspector \_\_\_\_\_

JI-261  
REV. 7-29-92

PACKING ROOM CHECK SHEET  
COMPRESSOR UNIT  
250-C30, ALL MODELS

COMPRESSOR S/N CAC-92152  
~~250-C30P, 23051643~~  
250-C30P, ~~23051643~~ P/N 23051643  
~~250-C30U, 23056634~~  
~~250-C30U, 23056634~~

DATE 9-29-00 CONTRACT OR P/O \_\_\_\_\_

DATE SHIPPED \_\_\_\_\_ DESTINATION \_\_\_\_\_ S.O. \_\_\_\_\_

SHIPPED WITH ENGINE S/N CAE-895940 TSLO NEW TT NEW

PART NAME	PART NO.	S/N
Compressor Rotor	23005279 <del>23050849*</del>	31716
Impeller Assembly	23030976	JY102004
Spur Adapter Gearshaft	23056634 <del>23008090</del> <del>23039072*</del>	CG-126938
Compr. Splined Adapter (C30U Only)	23039071	N/A

\* C30U only  
NEW  OVERHAUL ( ) REPAIR ( ) MODIFICATION ( )

Inspector GEORGE SCALF

Certified Inspector \_\_\_\_\_

**Rolls-Royce**

**ENGINE TEST LOG  
250 SERIES**

TEST No. 29905

ENGINE S/N 895940 MODEL 130P  
 TYPE TEST Final DATE 9-28-00  
 LOG SHEET No. 3 STAND 147  
 P.T.S. No. 877 OIL TYPE: 23699

	14	15	16	17	18	19	20	21	22	23	24	25
18:23	18:28	18:36	18:43	18:50	18:58	19:06			19:13	20:55	21:01	21:32
C	1079	1174	1248	1295	1337	1414			62	57/62	8	62
S	46518	48567	49825	50186	50908	51345			31357	31479	8	31291
D	1006	1019	1022	1013	1010	1014			4981	5082	W	5019
L											H	
D	338.2	436.6	500.0	524.6	567.2	590.0			6.4	8.0	1	7.8
	55.0	71.0	81.3	85.3	92.3	95.5			12	17	8	13
	395.9	511.4	585.8	614.1	664.1	691.1						
i											M	
L	9	8	7	7	6	6					C	93
S	249	298	331	343	347	379			88	95	C	
	65	64	63	64	64	64					T	
	256.3	307.4	341.2	353.4	378.3	390.9					P	
C	77	82	85	85	87	91					r	
	29.30	29.27	29.25	29.25	29.24	29.23						
A	29.46	29.48	29.50	29.48	29.48	29.48						
A	66	66	67	67	67	67			66	63	S	62
	78	79	82	85	87	88					C	
											A	
	543	585	613	621	638	648					A	
	200	223	238	243	252	257			75	78		76
	1.3	0	0	0	0	0			12	15		14
	8.3	8.2	8.2	7.7	8.0	8.4			1.9	1.7		1.9
	1072	1177	1248	1269	1319	1348			837	840		829
	1051	1152	1221	1241	1291	1319						
	124	124	124	124	124	124			114	120		114
	15	16	16	16	17	17						
	.1	.1	0	0	0	0						
	238	254	254	256	258	261						
	184	191	184	186	185	185			184	149		184
	.03	.04	.04	.04	.04	.04			.05	.04		.04
	.15	.16	.17	.16	.17	.17			.08	.08		.08
	.18	.19	.23	.20	.21	.22			.12	.12		.12
	.26	.20	.25	.22	.24	.24			.15	.15		.14
										.402		
									19:15			21:35
									1:55			1:40

TYPE FUEL JOTA  
 LHV 18526.8 SP. GR. .8109

CUSTOMER MON. N1 N2  
 COL. N1 N2

IDLE  
 CC  
 TO

REMARKS:

MAG. PLUG

	COL.	LOC.	COND.	ACTION
1				
2				
3				
4				

SEA LEVEL - STATIC (UNITY RAM) PERFORMANCE

SETTING	TOT #	NO	MIN ALLOW	% VAR	SFC	MAX ALLOW	%VAR.
	1295	1337					
	667.6	711.7					
	600	650					
	11.27	9.49					
	.569	.563					
	.599	1.592					
	-5.08	-4.83					

LOG SHT <u>3</u>	RUN COMP. <input checked="" type="checkbox"/>	RUN INCOMP.
ECU S/N	No. STARTS <u>6</u>	ROUTED TO <u>STORAGE</u>
T/M CAL <u>650</u> hp= <u>92.6</u> psig	TOTAL TIME <u>06:14</u>	OPER. <u>H. Hentze</u>
COMP SEAL VENT ORIF DASH No. <u>-9</u>	DATE OF ACCEPT	OPER.

Rolls-Royce Allison  
 P.O. Box 420  
 Indianapolis, Indiana  
 46206-0420 USA

TIME															
TRUE BAR.	29.53														
OUTSIDE TEMP.	63°														
RELATIVE HUMIDITY															

GENERAL	DATA REQUIRED	UNITS	1	2	3	4	5	6	7	8	9	10	11	12
	TIME MIL. CLOCK	hh:mm	17:25	17:30	17:40	17:45	17:51	17:56	17:58	18:01	18:04	18:04	18:09	18:12
	POWER SETTING		5762	V/S	F/A	A-10	610	Decel	F/A	Accl	Decel	F/A	Accl	G.I
	GAS PRODUCER SPEED (N1)	rpm	31673	51351	32607	50951	36148		34541	46342		34359	46324	31697
	DYNE SPEED	rpm	5139	6008	5390	6017	6468		5990	6046		5937	6047	5132
								From 60%	To 60%	From 60%	To 60%			

HORSEPOWER	DYN. FORCEMETER	ft/lb	7.4	590.0	7.2	567.2	9.2		6.8	341.8		7.2	341.6	7.0	
	DYN. FORCEMETER	hp													
	ENGINE TORQUEMETER	psig	.5	95.7	.5	92.0	1.0		.5	55.5		.5	55.5	.3	
	CORR. SHAFT HORSEPOWER	hp													
	Bleed Valve OK, N1 44321 CIT 67														

FUEL	FUEL INLET PRESSURE	psig													
	OBSERVED FUEL FLOW	lb/hr	94	380	95	373	110		103	252		102	253	89	
	FUEL INLET TEMP.	°F				369	64								
	CORR. FUEL FLOW	lb/hr													

COMPRESSOR	ANTI-ICE LINE TEMPERATURE	°F												
	AVG. COMP. INLET PRESSURE	in HgA				356	87	29.21						
	EXH. STATIC PRESSURE	in HgA						29.10						
	AVG. COMP. INLET TEMP.	°F	67	68	68	68	68		67	67		67	67	67
	TEST CELL REF. TEMP.	°F												
	VENTURI Δ P	psid												
	VENTURI ATM. PRESS.	psia												
	VENTURI REF. TEMP.	°F												
	PLENUM Δ P	in H2O												
	COMP. DISCHARGE TEMP.	°F							353					
	COMP. DISCHARGE PRESSURE	in HgA	84	269	82	252	100		91	201		90	201	76
	GEARBOX CASE PRESSURE	in H2O	.7	0	.6	0	1.7		1.4	.5		1.4	.9	.3
COMP. SEAL VENT PRESSURE	in Hg	1.4	10.5	.9	10.7	1.1		1.1	7.0		1.3	7.6	1.2	

TURB.	IND. MGT	°F	821	1346	833	845	831		824	1080		826	1077	835
	CORR. MGT	°F	848			1379								

OIL	MAIN OIL PRESSURE	psig	118	124	120	126	120		120	122		120	122	117
	SCAVENGE OIL PRESSURE	psig					14							
	OIL INLET PRESSURE	psig					.1							
	SCAVENGE OIL TEMPERATURE	°F					222							
	OIL INLET TEMPERATURE	°F	161	192	191	181	189		185	194		178	190	178
	OIL FLOW TIME (5 lb)	min												
	OIL FLOW	lb/min												

VIBRA.	DYNE VIBRATION	in/sec	.05	.04	.06	.04	.07		.06	.04		.06	.04	.04
	GEARBOX VIBRATION	in/sec	.09	.19	.09	.18	.17		.15	.15		.14	.15	.08
	TURBINE VIBRATION	in/sec	.11	.20	.11	.21	.15		.13	.19		.12	.18	.13
	COMPRESSOR VIBRATION	in/sec	.15	.26	.15	.24	.26		.17	.26		.19	.27	.15
	START ACCEL & DECEL TIME	min	.439						.050	.050	.050		.049	
START NUMBER		4												
DOWN														18:15

OIL CONSUMPTION					FUEL DRAINAGE				
OIL AT:	TOTAL	TIME	ELAPSED	TOTAL OIL	COMB. CHAM	cc/min	FUEL PUMP DRAIN		
START	36.2	18:30	TIME	CONS lb/hr	EXH. COL. DRAIN	cc/min	BURNER DRAIN VALVE	ok	
FINISH	36.2	19:12	:42		FIRE SHIELD DRAIN	cc/min	TOTAL FUEL GAL.	76	



**H.A.S. South**  
 220 Jared Drive  
 Broussard, LA 70518  
 USA  
 Ph: 337-839-8113, Fax: 337-839-8114  
 chris@hassla.com

**Packing Slip**

Invoice #: 6405 ✓  
 Invoice Date: 6/1/2023  
 Time: 3:28:47 PM  
 Page: 1

**To:**  
 Arrow Aviation  
 1318 Smede Hwy  
 Broussard, La 70518  
 USA  
 Ph: 337-364-4357 Fax: 364-4186

**Ship To:**  
 Arrow Aviation  
 1318 Smede Hwy  
 Broussard, LA 70518  
 USA

*INSTALLED on Eng SN  
 CAE-985940 Eng TT 3767.2  
 STARTS 2921  
 7-24-2023*

Cust. PO#: R19650 ✓	Terms: NET 30	Ship Via: H.A.S.S. DELIVERED	Ship Via Acc:
Order Date: 0	# of Items: 3	# of Boxes:	Weight:
Prepared By:	Sales Order:	Ship Log #: 0	Ship Order:
Customer #: AA2	VAT #:	Cust VAT #:	Ship Date: 0
Buyer: Vernon Credeur	FOB:	AWB:	Shipment:
WO #: W6838			

Item	Part Number/Description	Shipped	BackOrd	CD			Unit Price	UOM	Total Amt
1	2649092-8 Fuel Control Loc/Whse: Control #: 0-0 Serial #: BR56962 Ran as received, found no evidence of fuel leaking. Calibrated unit to O/H Specs., tested OK.	1	0						
	<i>D400 Stock</i>								
2	LABOR Labor Loc/Whse: Control #: 0-0	1	0						
3	LABOR Labor Loc/Whse: Control #: 0-0	1	0						

**RECEIVED**  
 JUN 02 2023  
 BY: *[Signature]*

Thank you and we appreciate your business.

Authorized Signature:



**H.A.S. South**  
 220 Jared Drive  
 Broussard, LA 70518  
 USA  
 Ph: 337-839-8113, Fax: 337-839-8114  
 chris@hassla.com

**Invoice**

**Invoice #: 6405**  
 Invoice Date: 6/1/2023  
 Time: 3:28:37 PM  
 Page: 1

**To:**  
 Arrow Aviation  
 1318 Smede Hwy  
 Broussard, La 70518  
 USA  
 Ph: 337-364-4357 Fax: 364-4186

**Ship To:**  
 Arrow Aviation  
 1318 Smede Hwy  
 Broussard, LA 70518  
 USA

Cust. PO#: R19650	Terms: NET 30	Ship Via: H.A.S.S. DELIVERED	Ship Via Acc:
Order Date: 0	# of Items: 3	# of Boxes:	Weight:
Prepared By:	Sales Order:	Ship Log #: 0	Ship Order:
Customer #: AA2	VAT #:	Cust VAT #:	Ship Date: 0
Buyer: Vernon Credeur	FOB:	AWB:	Shipment:
WO #: W6838			

Item	Part Number/Description	Shipped	BackOrd	CD		Unit Price	UOM	Total Amt
1	2549092-8 Fuel Control Serial #: BR56962 Ran as received, found no evidence of fuel leaking. Calibrated unit to O/H Specs., tested OK.	1	0			0.00		0.00
2	LABOR Labor	1	0			0.00		0.00
3	LABOR Labor	1	0			650.00		650.00
	*** Order Complete ***							

Thank you and we appreciate your business.

SubTotal:	650.00
Tax Total:	0.00
Misc Charge:	0.00
Freight:	0.00
Total:	650.00
Payment Amt:	0.00
Payment Type:	
Payment Owed:	650.00
	Payable in USD

Authorized Signature:





**H.A.S. South**  
 220 Jared Drive  
 Broussard, LA 70518  
 USA  
 Ph: 337-839-8113, Fax: 337-839-8114  
 chris@hassla.com

**Work Order Quote**

Quote #: 6405  
 Version #: 1  
 Work Order #: W6838  
 Tail #:  
 Printed: 5/31/2023 Page: 1

**To:**  
 Arrow Aviation  
 1318 Smede Hwy  
 Broussard, La 70518  
 USA

**Ship To:**  
 Arrow Aviation  
 1318 Smede Hwy  
 Broussard, LA 70518  
 USA

Ref #: R19650 Code: AA2 Site: Terms: NET 30

Description	Qty	Unit Price	Ext. Price
<b>WO W6838 PN 2549092-8</b>			
<u>Note:</u> Serial #: BR56962 Ran as received, found no evidence of fuel leaking. Calibrated unit to O/H Specs., tested OK.			
<b>Labor</b>			
Shop Services	1	650.00	650.00
<u>Note:</u> tested and re-certified.			
<b>Labor Total:</b>			<b>650.00</b>

PLUS SALES TAX, SHIPPING & HANDLING WHEN APPLICABLE  
 "QUOTE PRICE GOOD FOR 30 DAYS"  
 PLEASE VERIFY THE FOLLOWING ON YOUR R.O. OR P.O.:  
 1. THE SHIPPING COMPANY TO USE      3. THE SHIPPING ADDRESS  
 2. THE SHIPPING ACCOUNT NUMBER      4. HOW FAST NEED UNIT BACK

Authorized Signature: **WO Total: 650.00**

Payable in USD



1318 Smede Hwy  
Broussard LA 70518  
Ph: 337-364-4357 Fax: 337-364-4186  
www.arrowaviationco.com

### Repair Order

Order #: R19650  
Date Printed: 5/30/2023  
Time: 11:37:17 AM  
# of Items:  
Page: 1

**Ordered From:**  
ATTN: CHRIS HEBERT  
HELICOPTER ACCESSORY SERVICE SOUTH  
220 JARED DRIVE  
BROUSSARD, LA 70518

**Ship To:**  
ARROW AVIATION CO LLC  
1318 Smede Hwy  
Broussard, LA 70518

Prepared By: Fred Stokes  
Ship Date: 5/30/2023  
Insure?:  
Ship Via: CONSIGNEE  
Ship Via Acc:

RO Date: 5/30/2023  
Fax #: 337-839-8114  
Terms: NET 30  
Warranty: No

Phone #: 337-839-8113  
FOB:  
Vendor #: HASS1  
Resale: NO  
Resale #:

*All items subject to our inspection and acceptance*

Item	Part Number/Description	CD	To Rep	Res	Rep	Scrap	Scr Rem	UOM	Parts	Labor	Misc	Line Amt
1	M250-10834 CONTROL ASSEMBLY, GAS PRODUCER - FUEL SN: BR56962 AIR BLEED ORIFICE SPRAYING FUEL. PLEASE REPAIR WAS JUST THERE MARCH 28. REF HAS # W6687  CLAUSE Q2B APPLIES  PLEASE REFER TO <a href="http://www.arrowaviationco.com/quality-control/">www.arrowaviationco.com/quality-control/</a> FOR SUPPLIER REQUIREMENTS AND APPLICABLE QUALITY CONTROL CLAUSES	RP	1.00	1.00	0.00	0.00	0.00	EA	0.00	0.00	0.00	0.00

Parts Total:	0.00
Labor Total:	0.00
Misc Total:	0.00
Tax Total:	0.00
<b>Total:</b>	<b>0.00</b>

Authorized Signature:

US DOLLARS

## Barry Laviolette

---

**From:** Fred Stokes <fred@arrowaviationco.com>  
**Sent:** Wednesday, May 31, 2023 3:30 PM  
**To:** Barry Laviolette; Vernon Credeur  
**Cc:** Chris Hebert; Mike Hebert  
**Subject:** RE: R/O: 19650

Barry

Approved

Thanks  
Fred



**From:** Barry Laviolette <blaviolette@hassla.com>  
**Sent:** Wednesday, May 31, 2023 3:24 PM  
**To:** Vernon Credeur <vernon@arrowaviationco.com>; Fred Stokes <fred@arrowaviationco.com>  
**Cc:** Chris Hebert <chris@hassla.com>; Mike Hebert <mike@hassla.com>  
**Subject:** R/O: 19650

Hello Vernon,  
Please see attached quote for R/O: 19650. Unit was not leaking as described in repair order.  
Thank you,  
Barry



### Barry Laviolette

*Technical Support*  
HAS South, LLC

P: 1.337.839.8113 f. 1.337.839.8114

a: 220 Jared Drive, Broussard, LA 70518

## Honeywell

An Authorized Service Center

Click [here](#) to report this email as spam.