

1. Approving Civil Aviation Authority/Country:
FAA/UNITED STATES

2. **AUTHORIZED RELEASE CERTIFICATE**
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
168250

4. Organization: **Kansas Aviation of Independence, L.L.C.**
Name and Address: **Repair Station VKUR 823L**
401 Freedom Drive
Independence, KS 67301

Repair/Service Station: **VKUR 823L**
FAA Certificate: **VKUR 823L**

5. Work Order/Contract/Invoice Number:
4207969002

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	Status/Work:
1	IGNITION EXCITER	3888058-7 CH92036	1 EA	131072	OVERHAULED

12. Remarks:
OVERHAULED REF: Clampton Aerospace CMM 49-41-01
Rev. #3, November 16, 2015
Honeywell International Inc. ESN: Not supplied; Engine Type: Not supplied;

13a. Certifies that the work specified in Block 11/12 was carried out in accordance with EASA part-145 and in respect to that work the component is considered ready for release to service under EASA Part-14. Approval Number: "EASA 145-EASA.145.4603".

13b. Certifies the items identified above were manufactured in conformity to:

Approved design data and are in a condition for safe operation.

Non-approved design data specified in Block 12.

14. Return to Service

Other regulation specified in Block 12

14. Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
		<i>Terry Martinez</i>	VKUR 823L
13d. Name (Typed or Printed):	13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed):	14e. Date (dd/mm/yyyy):
		Terry Martinez	29/May/2018

User/Installer Responsibilities

It is important to understand that the existence of the signature, alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Parts 1 and 12 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Kansas Aviation of Independence, L.L.C.

KANSAS AVIATION
OF INDEPENDENCE

Repair Station VKUR 823L
401 Freedom Drive
Tel: 620-331-7716

Independence KS 67301
Fax: 620-331-6289

sales@kansasaviation.com
www.kansasaviation.com

WORK ORDER INSPECTION REPORT

Page: 1 of 1

ESN : Not supplied	W/O No. 168250 P/N 3888058-7 S/N 131072
Engine Type : Not supplied	
TSO	
TSN	
Alt. P/N : C192030	
Work Scope : Overhaul	
For Customer : Honeywell International Inc	
S.O. No. : 149911	Line No. : 1

Cust P.O. : 4207969809	P/N : 3888058-7	S/N :
Our Code : CHAMP	Desc : IGNITION EXCITER	CSO/CSN :
Work Code :	S/N: 131072	Tag Info :
Work Req'd : OVERHAULED	MFG : Champion Aerospace LLC	Manual :
Contract : 1262-8168-4	Qty : 1	Revision :
Completed P/N : 3888058-7	S/N As: 131072	Cond As: OH
Company : 1	Division : 031	Department :
Order Date : May-16-2018	Received Date : May-16-2018	Due Date : May-26-2018
		Print Date : May-29-2018

Repair/Service WORK ORDER No. 168250

Customer Comments
Overhaul

Receiving Inspection
NO ABNORMALITIES.

Inspection Findings
SCRAPPED CHARGE PUMP DUE TO FAILING.

Parts Installed
CHARGE PUMP P/N 9170083, SPARK GAP P/N 3070832 (INTERMITTENT) AND ALL CONSUMABLES.

Test Comments
UNIT TESTED WITHIN LIMITS.

Authorized Signature

Name Terry Martinez

Date : May-29-2018

KANSAS AVIATION OF INDEPENDENCE

REVISION 2

TEST SHEET

PG 1 of 4

DESCRIPTION		
<u>IGNITION EXCITER</u>		
CHAMPION AEROSPACE		
FINAL FUNCTIONAL TEST		
Champion CMM 49-41-01		
Rev. #3, Nov. 16, 2015		
INPUT PART NUMBER	OUTPUT PART NUMBER	SERIAL NUMBER
CH92036	CH92036	131072

A. LEAK TEST

- VISUALLY INSPECT THE EXCITER FOR CRACKS, VOIDS, PINHOLES AND/OR SOLDER JOINT FAILURE.

PASS FAIL

- PLACE EXCITER INTO TANK OF WATER AT A TEMPERATURE OF 160°F TO 170°F FOR 3 MINUTES. EXCITER MUST BE AT ROOM TEMPERATURE BEFORE TEST.
- CHECK FOR ANY LEAKS FROM EXTERIOR SURFACES, INPUT AND OUTPUT CONNECTORS, SCREW HOLES AND COVER SEAL AREA. NO LEAKS ARE PERMITTED.

PASS FAIL

- REMOVE EXCITER AND DRY WITH COMPRESSED AIR.

B. SPARK RATE AND INPUT CURRENT TEST

- CONNECT INPUT LEAD TO INPUT CONNECTOR OF EXCITER.
- CONNECT OUTPUT LEAD BETWEEN EXCITER AND LOW TENSION LOAD PANEL.
- ADJUST DC INPUT VOLTAGE TO 14 VDC, +0.5V.
SWITCH U.U.T. ON/OFF SWITCH TO ON.
SPARK RATE SHOULD BE 2.5 SPARKS/SECOND MINIMUM
INPUT CURRENT SHOULD BE 4 AMPS MAXIMUM

RECORD SPARK RATE: 2.5 2.7 XXXX

RECORD INPUT CURRENT: 0 1.5 4 AMPS

SWITCH UUT ON/OFF SWITCH TO OFF

KANSAS AVIATION OF INDEPENDENCE

PG 2 of 4

DESCRIPTION IGNITION EXCITER CHAMPION AEROSPACE

FINAL FUNCTIONAL TEST
Champion CMM 49-41-01
Rev. #3, Nov. 16, 2015

INPUT PART NUMBER	OUTPUT PART NUMBER	SERIAL NUMBER
CH92036	CH92036	131072

4. ADJUST DC INPUT VOLTAGE TO 36 VDC, +0.5V.
SWITCH U.U.T. ON/OFF SWITCH TO ON.
SPARK RATE SHOULD BE 5 SPARKS/SECOND MAXIMUM.
INPUT CURRENT SHOULD BE 4 AMPS MAXIMUM

RECORD SPARK RATE: 0 5

RECORD INPUT CURRENT: 0 4 AMPS

SWITCH UUT ON/OFF SWITCH TO OFF.

5. ADJUST DC INPUT VOLTAGE TO -60 VDC, -1V.
PIN 1 TO NEGATIVE, PIN 2 TO POSITIVE.
SWITCH U.U.T. ON/OFF SWITCH TO ON.
SPARK RATE SHOULD BE 0
INPUT CURRENT SHOULD BE 0 AMPS

RECORD SPARK RATE: 0 XXX

RECORD INPUT CURRENT: 0 XXX

SWITCH UUT ON/OFF SWITCH TO OFF

C. OUTPUT VOLTAGE TEST (IONIZATION VOLTAGE TEST)

1. ATTACH HIGH VOLTAGE PROBE TO OUTPUT OF EXCITER.
2. CONNECT HIGH VOLTAGE PROBE TO OSCILLISCOPE
3. ADJUST DC INPUT VOLTAGE TO 28 VDC.
SWITCH UUT ON/OFF SWITCH TO ON.
MEASURE OUTPUT VOLTAGE. IT SHOULD BE BETWEEN 18,000 – 24,000 VOLTS

RECORD OUTPUT VOLTAGE: 18,000 24,000 VOLTS

KANSAS AVIATION OF INDEPENDENCE

PG 3 of 4

DESCRIPTION
IGNITION EXCITER
CHAMPION AEROSPACE

FINAL FUNCTIONAL TEST
Champion CMM 49-41-01
Rev. #3, Nov. 16, 2015

INPUT PART NUMBER	OUTPUT PART NUMBER	SERIAL NUMBER
<u>CH92036</u>	<u>CH92036</u>	<u>131072</u>

D. OUTPUT VOLTAGE TEST (STORAGE CAPACITOR TEST)

1. CONNECT HIGH VOLTAGE PROBE TO OUTPUT CONNECTOR OF EXCITER
ATTACH THE GROUND LEAD FROM THE HIGH VOLTAGE PROBE TO THE
MOUNTING FOOT ON THE EXCITER.

2. CONNECT HIGH VOLTAGE PROBE TO THE OSCILLISCOPE.

3. APPLY 28 VDC TO EXCITER (POSITIVE TO PIN 1, NEGATIVE TO PIN 2).

MEASURE HIGHEST PEAK OF OUTPUT VOLTAGE.

18,000 20800 24,000 VOLTS

E. BONDING/CASE GROUND TEST

1. ATTACH MICROOHMMETER BETWEEN INPUT CONNECTOR PIN 3 AND
UNPAINTED MOUNTING HOLE.

2. RESISTANCE SHOULD BE 10 MILLI-OHMS MAXIMUM.

RECORD RESISTANCE: 0 5.1 010 milli-ohms

KANSAS AVIATION OF INDEPENDENCE

PG 4 of 4

DESCRIPTION
IGNITION EXCITER
CHAMPION AEROSPACE

FINAL FUNCTIONAL TEST
Champion CMM 49-41-01
Rev. #3, Nov. 16, 2015

INPUT
PART NUMBER

OUTPUT
PART NUMBER

SERIAL NUMBER

CH92036

CH92036

131072

F. THERMAL CYCLING TEST

1. OPERATE EXCITER AT 28 VDC \pm 1 AT 4 MINUTES ON AND 10 MINUTES OFF CYCLE WHILE TRANSITIONING THE TEMPERATURE FROM -65.2 °F TO 159 °F AND WHILE HIGH TEMPERATURE SOAKING FOR ONE HOUR AT 159 °F.
2. CONTINUE THE 4 MINUTE ON AND 10 MINUTE OFF CYCLE WHILE TRANSITIONING FROM 159 °F TO -65.2 °F.
3. COLD SOAK EXCITER FOR 1 HOUR AT -65.2 °F, BUT DO NOT OPERATE EXCITER DURING THIS PERIOD.
4. REPEAT THIS CYCLE 6 TIMES.

CYCLE 1	<input checked="" type="checkbox"/>
CYCLE 2	<input checked="" type="checkbox"/>
CYCLE 3	<input checked="" type="checkbox"/>
CYCLE 4	<input checked="" type="checkbox"/>
CYCLE 5	<input checked="" type="checkbox"/>
CYCLE 6	<input checked="" type="checkbox"/>