

SERVICE BULLETIN: # SB-69

DATE: 22 January 2021

AFFECTED PRODUCTS: CH77 Ranabot , CH7 KOMPRESS CHARLIE 2 Hi , CH7 Kompress Charlie2 , C

SUBJECT: ELECTRICAL SYSTEM UPDATE AND ISEC3 CHECK LIST PROCEDURES

INSPECTION: FIRST PRE FLIGHT

REPLACEMENT: MANDATORY

COMPLIANCE PROCEDURE:

S/B 69 Planning/Information

The experience in the field has shown that the human factor is often cause of accidents, the use of the voice check list has been shown to significantly reduce forgetfulness in the procedures of access and shutdown of the helicopter, although there are many cases that we have been able to discover thanks to increasingly precise and reliable data logger systems, forgetfulness in turning on the fuel pump 2 or turning on the alternator.

Helisport has developed a simplified start-up and shutdown procedure aimed at eliminating the possible forgetfulness in activating certain switches. also observing what other helicopter manufacturers have made, the alternator switch (or generator 2) has been eliminated and replaced with a Gen2 test only switch, Pump 2 switch removed and combined with the function with a special switch to the Clutch

It is mandatory to apply this bulletin which includes: install a new clutch switch, eliminate the alternator switch and apply a button switch in its place. replace the vocal Epron with Isec3 versions

1.2 Subject:

ELECTRICAL SYSTEM UPDATE AND ISEC3 CHECK LIST PROCEDURES

1.3 Compliance

Application request in the next pre-flight inspection.

The application of the SB 69 must be in accordance with the installation instructions followed in section 3.

WARNING: Failure to follow this instruction may result in damage to the aircraft, personal injury or death

2) Material-costs and availability

prices and availability will be provided by CH7 HELISPORT HELICOPTER, Authorized Sellers or CH7 SERVICE CENTER

2.1 The Company

Shipping costs, downtime, loss of income, telephone costs etc., labor, additional work, are not charged or reimbursed by CH7 HELISPORT HELICOPTER.

2.2 Material

required parts:

Kit for Engine Epapower SA-R 914 Ti or Rotax914UL

- switch clutch
- plastic cup 16mm
- Switch panel Gen2
- Epron ISE3
- Epron language R_6

Kit for Engine Epapower SA-R 914 Ti or Rotax914UL

- switch clutch
- plastic cup 16mm
- Switch panel tri-polar Gen2
- Epron ISE3
- Epron language R_6

2.4 special equipment / lubricated / glue / sealing compound.

NO

Rework of parts

NO

3) Instructions

this maintenance intervention can be applied by operators who have received written authorization the by the technical manager Helisport Mr: Barbero Giuseppe.

To fully review the documentation to understand exactly the procedures and requirements to avoid errors, all measurements must be taken and confirmed within the following persons or structures:

CH7 HELISPORT HELICOPTER

CH7 SERVICE CENTER

people approved by CH7 HELISPORT HELICOPTER

list of authorized persons

All staff Team Service Center Helisport Italy

Mr. Martin Gracka - Mamba Air

Mr. Matthieu De Quillacq Mr. Jean-Denis Desplans -Sarl Helisport France

3.2) Put the aircraft back in its original operating configuration in accordance with the related construction and maintenance manuals

3.3 Summary

These instructions (section3) must be completed in accordance with section 1.3 Compliance.

The application of this bulletin must be transcribed in the aircraft maintenance log book.

Approval translation in any case the original text in Italian and metric unit (SI-system) are authoritative.

ORDER FORM SERVICE BULLETIN 69

We request follow order in accordance to section 2.2 service bulletin 69

helicopter affect SB 69 CH77.....CH7.....S/N.....ID/N.....

Total hoursEngine Tipe EPASA-R917..... EPASA-R 914.....ROTAX914.....
mark with X tipe of engine

Last owner or manager NameLast name.....

email.....Phone.....

technician authorized to apply the service bulletin Name
Last name.....

email.....Phone.....

HELISPORT HELICOPTERS

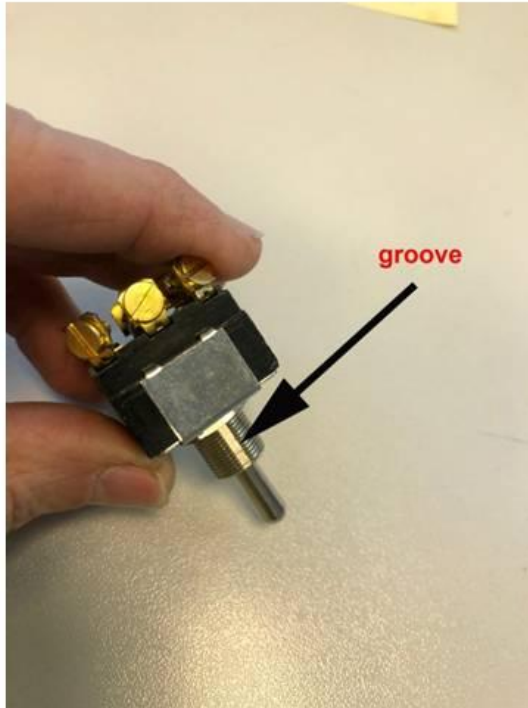
Service Bulletin 69

This document responds to the all application instructions Section 3 of the service bulletin 69

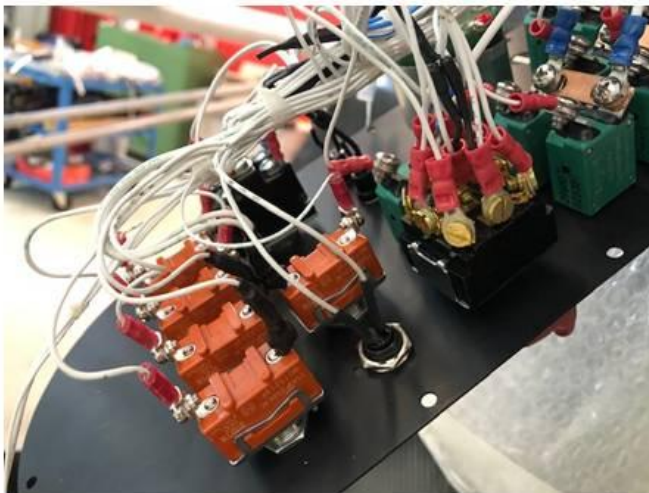
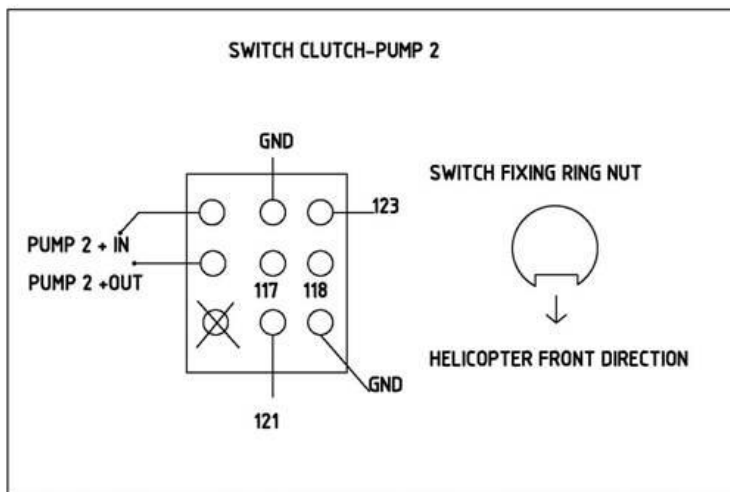


**Step 1-remove
the switch panel**

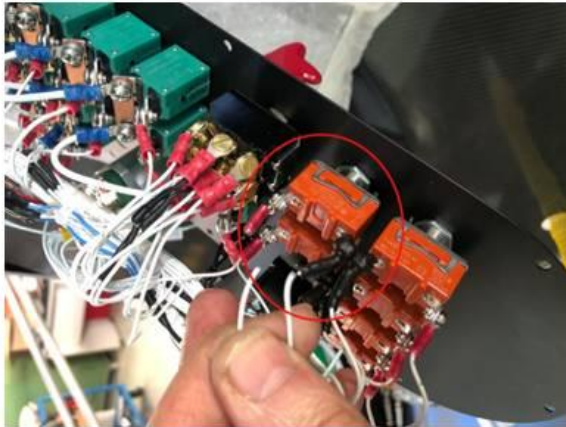
**Step2 -unscrew both
cables from the switch
pump2,remouve the
switch pump 2 and put
the plastic cup to
clouse the hole**



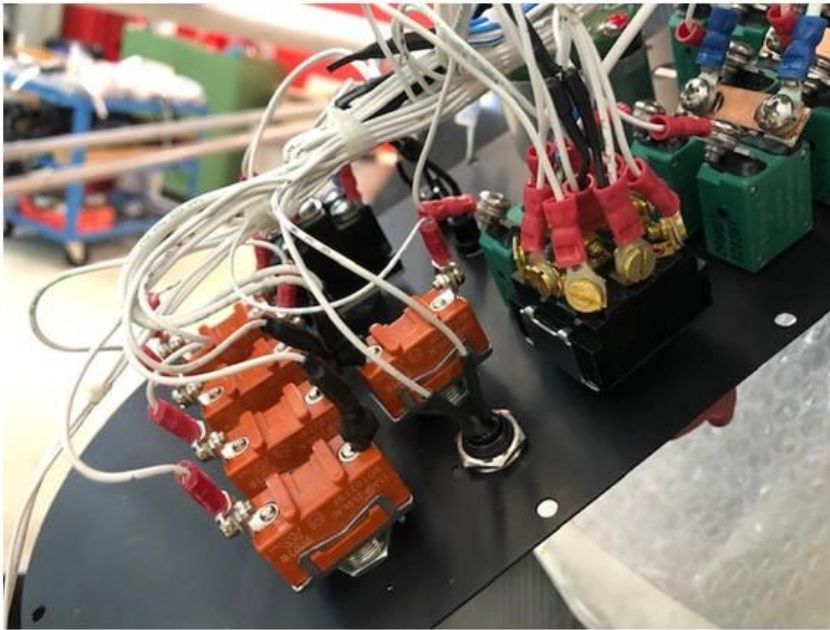
Step 3- unscrew all cables from the switch clutch remove the switch clutch and instal the new one with the groove side facing forward of the aircraft



Step 4—Screw the connectors cable following the intruction drow ,

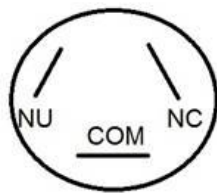


- **Step 5- Cut both cables connected to GEN 2 switch ,Remove GEN2 switch and reconnect them both cable to the button switch, no problem if you reverse the phase**



- **Step 5 use tin soldering iron and connect the two GEN2 cables to the button switch, protect the connectors with heat shrink tubing**

SWITCH BUTTON
for only Epapower SA-R 914 or Rotax 914 UL



connect the both cables GEN 2 in position COM-NC

▪ **Step 5**

CAUTION

**With
EngineEPAPOWER
SA-R914 o rRotax
914 UL use tri pole
swith botton**



Step 6- Instal the switch pannel-cover pump 2 label with black tape

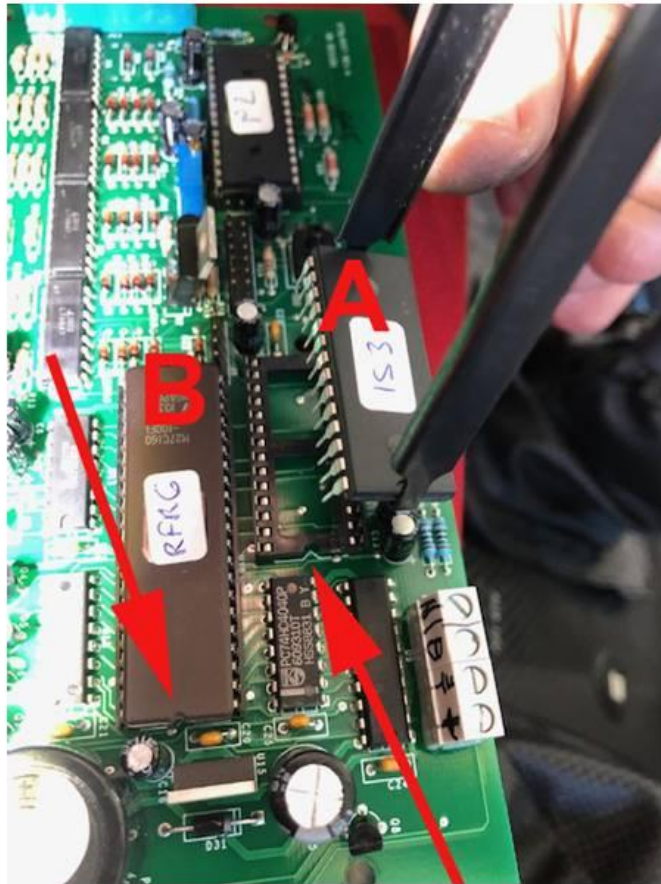


Step 7-
Unscrew the
instrument
panel, and
place a suitable
support for the
panel

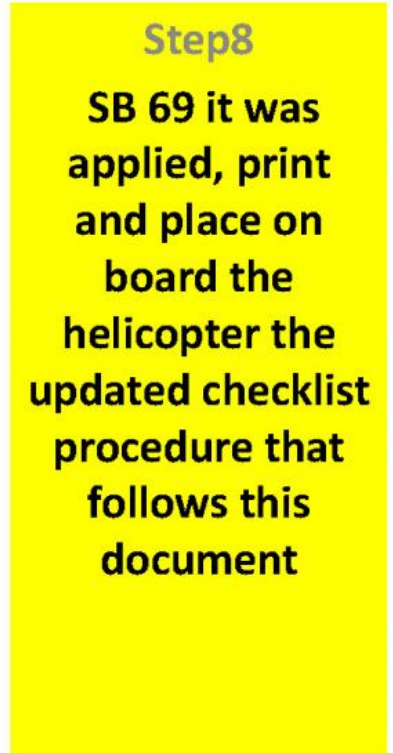


Eprons approved are ISEC 3 and R_6 or higher number . R is the Epron language, for example France is RFR6

Step 7- Remove using the appropriate tool Epron A and B respectively with ISEC 3 in a R_6 in B, we recommend the removal from dashboard the warning card for those who are not familiar with this job. The Epron is very delicate and it is easy to damage it irreversibly.



Step7 Pay close attention to the triangular reference on the warning card highlighted with red arrows which must coincide with the reference on the Epron



SECTION7 — OPERATIONS AND MAINTENANCE

7.8 CHECK-LISTS

TAKE OFF PROCEDURE

Doors: Closed and latched and 2 point Lock doors light off

Fuel cock: Open

Choke: Off(SA-R 914 only)

Breakers: Set

Warning lights: Check on then off

Cyclic and collective frictions: Off

Engine oil temperature: 50°C

Engine / rotor speed: 90%

Governor: On, check 104%

Outside temperature: Check« SECTION 5 – PERFORMANCES »

Engine parameters: Check

Wind: Check

Area: Clear

Radio: Volume and frequency Set&Check

Transponder: Switch to A/C (if fitted).

Reduce rotor speed: Check voice alarm and warning red light on at 96 %.

Release throttle: Check 104%

READY FOR TAKE OFF

SECTION7 — OPERATIONS AND MAINTENANCE

7.8 CHECKLISTS

START UP PROCEDURE

Choke: On if engine cold(SA-R914only)

Master: Run

Oil, Gov, Gen,Alt,(Tow) warning lights: On (SA-R917 Ti only)

Fuel pump 1: Check pressure

Clutch: On, check fuel pressure increase, then off.

Throttle: Closed

Area: Clear

Start collective Button: Press 5 "max, oil pressure increase light off(1bar approximately)

Ignition Key: « BOTH », then press Start collective Button.

Engine speed: Idle Between 1 800 rpm and 2 650

Clutch: On, check clutch light on, note time.

Check volts: Check volts no below 13.0

Choke: Off(SA-R 914 only)

Clutch light: Off. Check running time 90 secs.

Radio: Volume and frequency Set&Check

Transponder: Switch to Standby (if fitted).

GPS-Traffic: Set(if fitted)

Engine oil temperature: 35°C

Engine / rotor speed: Increase to 70% - 80%

Check circuits: Turn key from BOTH to R

Ignition Key: Check speed drop less than 150 rpm

Engine oil temperature: Turn key from BOTH to L

Engine / rotor speed: Check speed drop less than 150 rpm

Throttle: BOTH Set

Tachometer: 50°C

Engine : 90%

Needles split: Cut

Idle check no below 1800 rpm

SECTION7 — OPERATIONS AND MAINTENANCE

7.8 CHECK-LISTS

PROCEDURE BEFORE ENGINE START

Fuel level: Visual check
Aircraft exterior: remove ground wheels, rotor ties, cowlings closed
Radio and headset: On
Master switch: Checklist/rotor voice check list, budist Next Back)
TCU light: On 2 secs then Off (#5A-R 914 engine only)
Previous flight time: Check log
Warning lights: Oil, (Fuel Press #), Gov, Gen, Alt, (Tcu*)
Seatbelts: On (#5A-R 917 engine only) (#5A-R 914 engine only)
Doors: Fasten
Closed and latched, emergency release
Fuel cock: On (#5A-R 914 only)
Fuel level: Sufficient - EMS set
Cyclic & collective frictions: Off
Cyclic, collective and pedals: Full and free travel
Collective: Full down, friction on
Cyclic: Neutral, friction on
Pedals: Neutral
All switches: Off
Breakers: In
Altimeter: Set
Frame pressure: 2 bar

SECTION7 — OPERATIONS AND MAINTENANCE

7.8 CHECK-LISTS

SHUT DOWN PROCEDURE

Collective: Full down
Collective friction: On
Governor: Off
Engine / rotor speed: Reduce to 70 - 80%, 1 minute.
Trims: Neutral
Fans: On
Engine / rotor speed: Reduce to idle(40- 50 %)
Cyclic friction: On
CHT and engine oil temperature: Below 90°C
Clutch: Off, check clutch light on, note time
Ignition Key: Turn Off after 40 secs clutch motor started
Master switch: Check List position
Clutch light: Off. Running time Check 100 secs.
Master switch: Off and all Switch off
Flight time: Note in log.