

# **AFTER SALES SERVICE MANUAL**



## **1-AFTER SALES SERVICE FORM**



<b>Consignee</b>	<b>CRISTEC</b> <b>SAV – Mikaël DIASCORN</b> <b>31 rue Marcel Paul, ZI Kerdroniou</b> <b>29000 QUIMPER</b> <i>Tel :</i> 00.33.2.98.53.80.82 <i>Fax :</i> 00.33.2.98.55.64.94 <i>Email :</i> sav@cristec.fr	<b>Sender</b>	<i>Name :</i> ..... <i>Address :</i> ..... ..... <i>Country :</i> ..... <i>Tel :</i> ..... <i>Fax :</i> ..... <i>Email :</i> .....
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<b>Product</b>	<i>Type :</i> ..... <i>Reference :</i> ..... <i>Serial N° :</i> .....  <i>Your product references :</i> ..... <i>Purchasing date (enclose invoice) :</i> ..... <i>Place of purchase :</i> ..... <i>Return date :</i> .....
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Description of the failure	Type of failure	tick	Followed procedure	yes	no
	Do not start	<input type="checkbox"/>	PROCESS 1	<input type="checkbox"/>	<input type="checkbox"/>
	Cut out the AC input	<input type="checkbox"/>	PROCESS 2	<input type="checkbox"/>	<input type="checkbox"/>
	No output voltage	<input type="checkbox"/>	PROCESS 3	<input type="checkbox"/>	<input type="checkbox"/>
	No Boost phase	<input type="checkbox"/>	PROCESS 4	<input type="checkbox"/>	<input type="checkbox"/>
	No ventilation	<input type="checkbox"/>	PROCESS 5	<input type="checkbox"/>	<input type="checkbox"/>
	Do not charge	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Other	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Description of the components	LED	On	On <input type="checkbox"/>	Off <input type="checkbox"/>	Boost/ Abs.	On <input type="checkbox"/>	Off <input type="checkbox"/>	Floating	On <input type="checkbox"/>	Off <input type="checkbox"/>	
	Input fuse : F1-F2	Good : <input type="checkbox"/>				Bad : <input type="checkbox"/>					
	Varistor RT1	Good : <input type="checkbox"/>				Bad : <input type="checkbox"/>					
	Output fuse : F3-F3F4-F3F4F5-F3F4F5F6	Good : <input type="checkbox"/>				Bad : <input type="checkbox"/>					
	Fan	Good : <input type="checkbox"/>				Bad : <input type="checkbox"/>					

<b>Request</b>	Repair under warranty	<input type="checkbox"/>	Remark :
	Standard exchange under warranty	<input type="checkbox"/>	Remark :
	Estimation and repair out of warranty	<input type="checkbox"/>	Remark :
	Other	<input type="checkbox"/>	Remark :



**-Join some photos of the material and its environment with this form to validate the return**  
**-The warranty will be or not confirmed only after expertise by CRISTEC**

CRISTEC VALIDATION  
 (CRISTEC, only is authorized to fill in these fields)

RETURN N° : .....

## **2-INITIAL DIAGNOSIS FOR CHARGERS CPS3**



## GENERAL DIAGNOSIS :

TYPE OF FAILURE	PROCEDURE TO APPLY
NO STARTING	PROCESS 1
CUT OUT WHEN SWITCH ON	PROCESS 2
NO OUTPUT VOLTAGE	PROCESS 3
NO BOOST PHASE	PROCESS 4
NO VENTILATION	PROCESS 5
DO NOT CHARGE	SEND A MESSAGE TO <a href="mailto:sav@cristec.fr">sav@cristec.fr</a> FOR INSTRUCTIONS



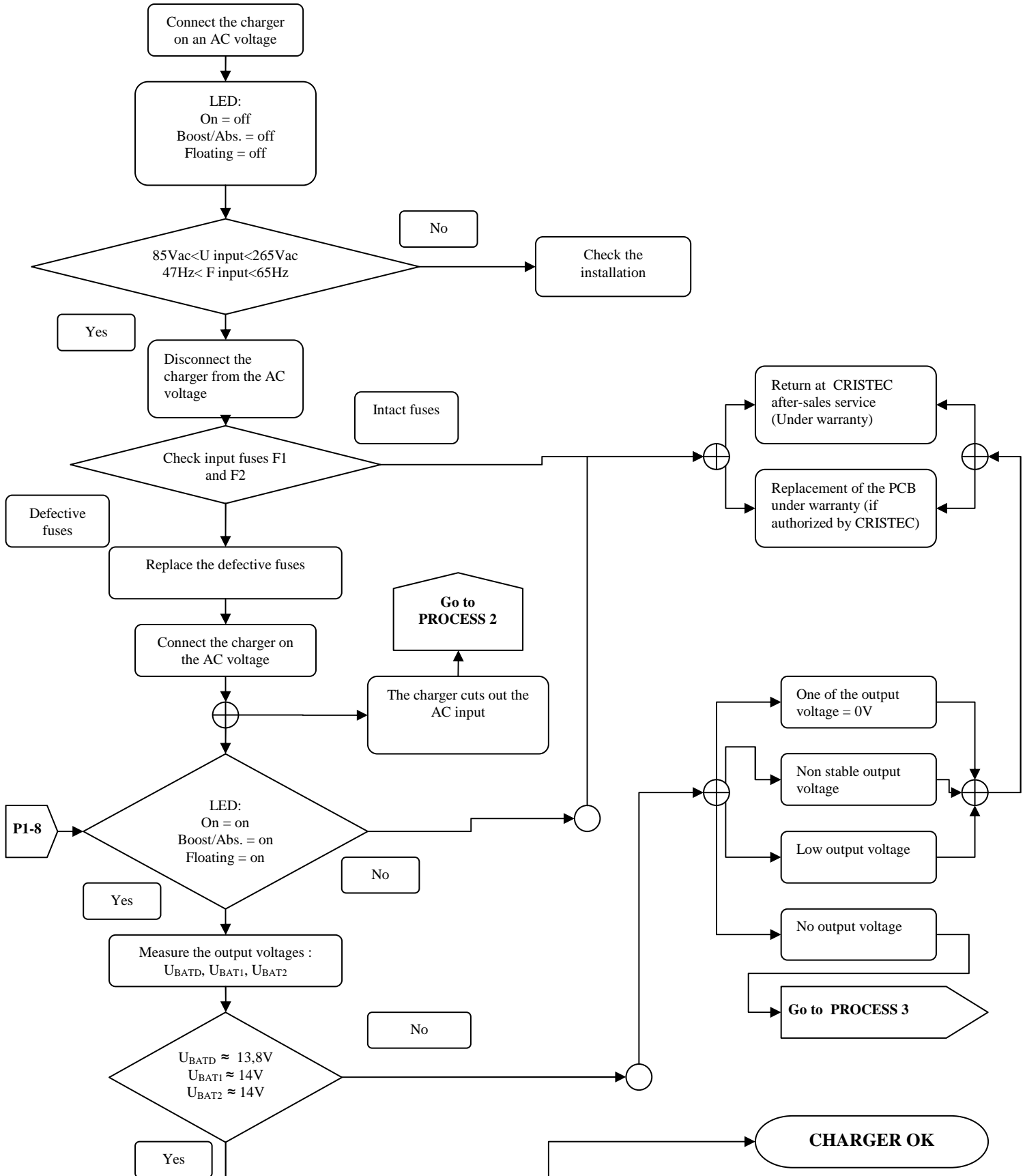
## CAUTION

- Only the personnel authorized by CRISTEC can apply these procedures and operate on the charger and eventually change the defective pieces.
- CRISTEC can't be responsible for the material damages and the physical injuries following an error in the handling.
- All deterioration of the material due to a bad handling during these tests won't be covered by the warranty.
- Respect all recommended conditions and configurations of tests.
- Respect the order of the steps described in the procedures.
- Respect the references and the calibres of the components when replacing them.
- All returned appliance must be individually packed and come with a return note, validated and numbered by CRISTEC
- We will send you back the appliances in their physical conditions of receipt (casing, cable glands, pass wires...)

## PROCESS 1:



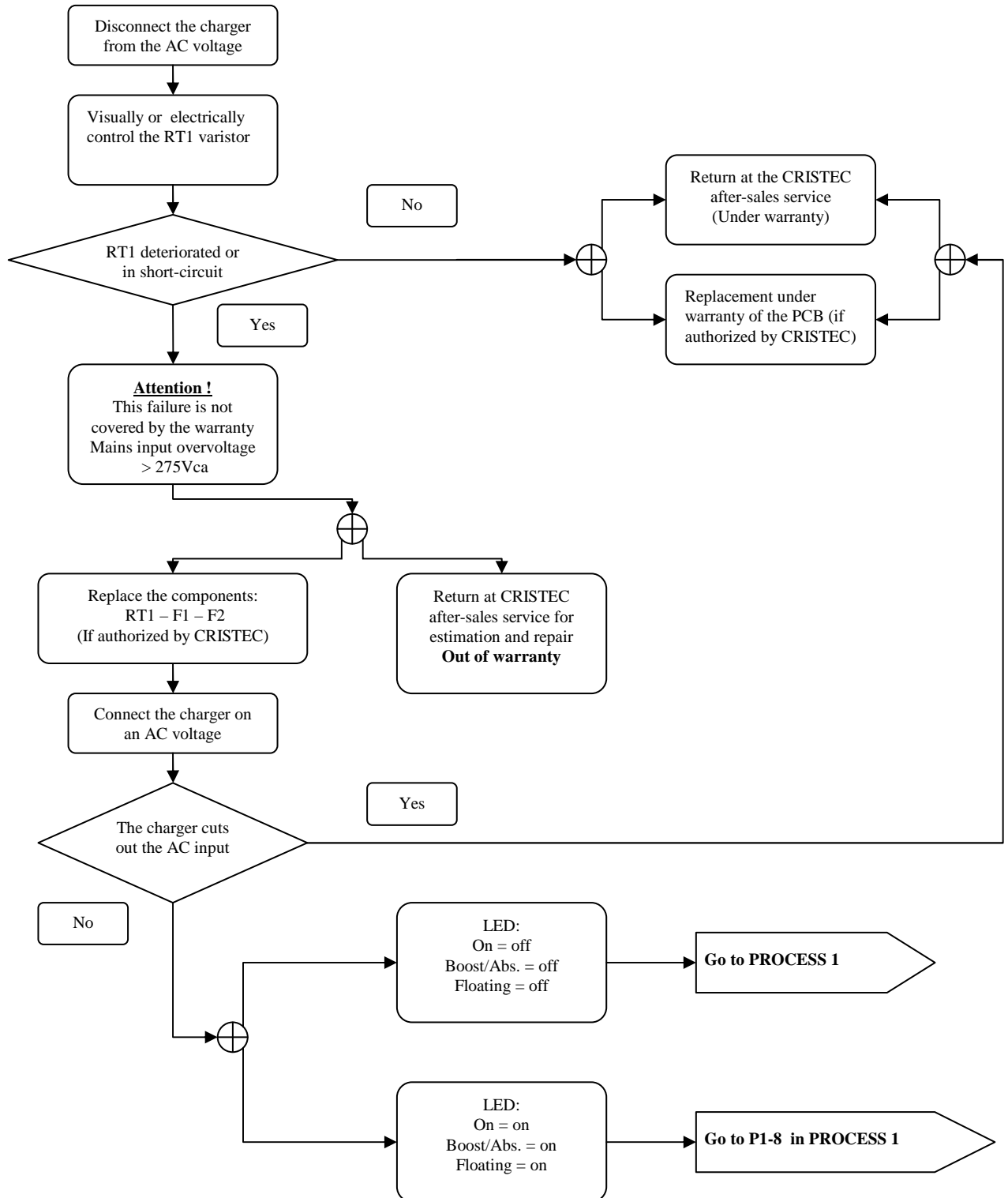
1. TO DO THIS TEST, DISCONNECT THE BATTERIES AND ALL CONNECTIONS ON THE OUTPUTS OF THE CHARGER
2. SET UP THE CHARGER : RC1= POS 1



## PROCESS 2:



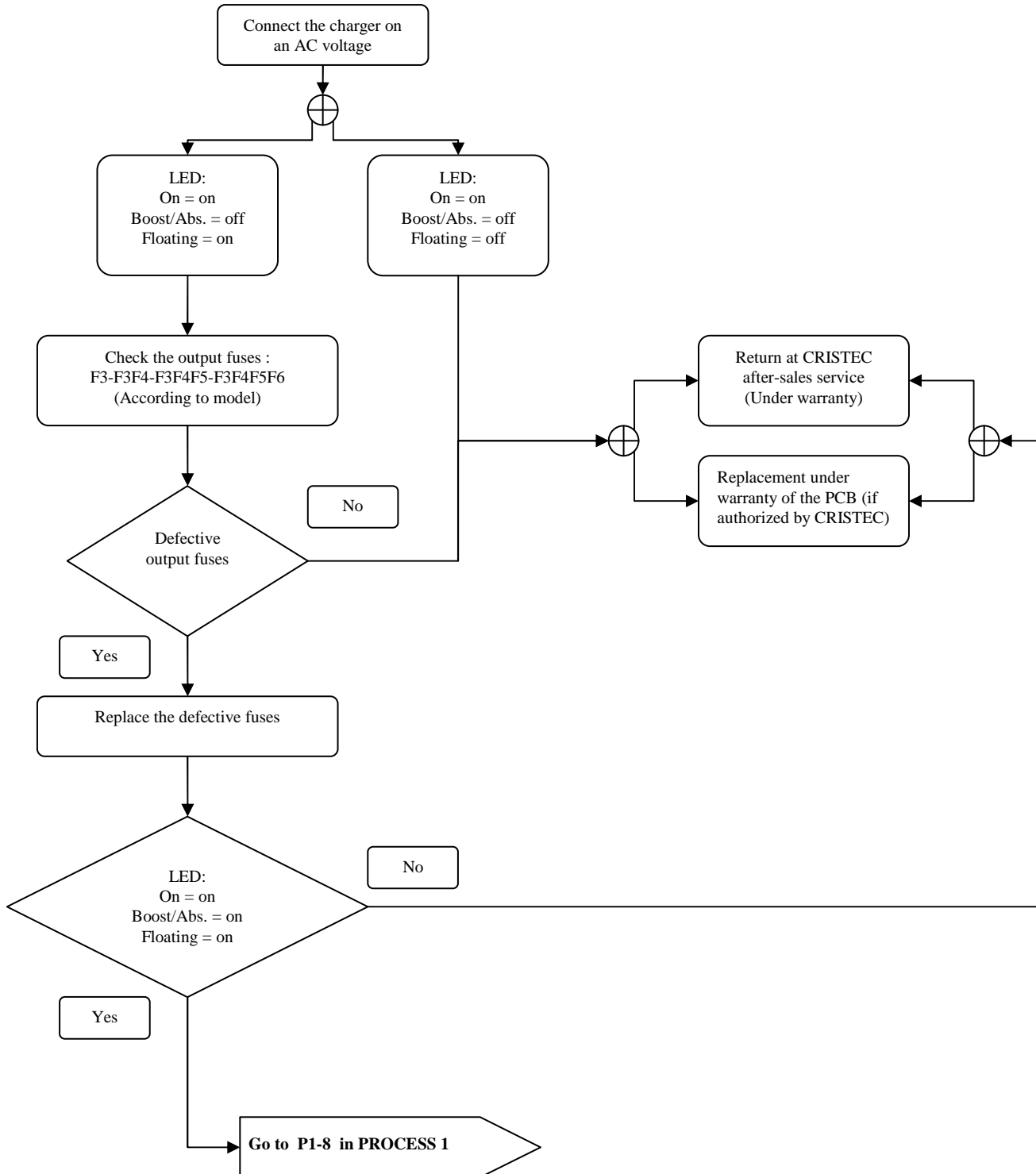
1. TO DO THIS TEST, DISCONNECT THE BATTERIES AND ALL CONNECTIONS ON THE OUTPUTS OF THE CHARGER
2. SET UP THE CHARGER : RC1=POS 1



## PROCESS 3:



1. TO DO THIS TEST, DISCONNECT THE BATTERIES AND ALL CONNECTIONS ON THE OUTPUTS OF THE CHARGER
2. SET UP THE CHARGER : RC1=POS 1

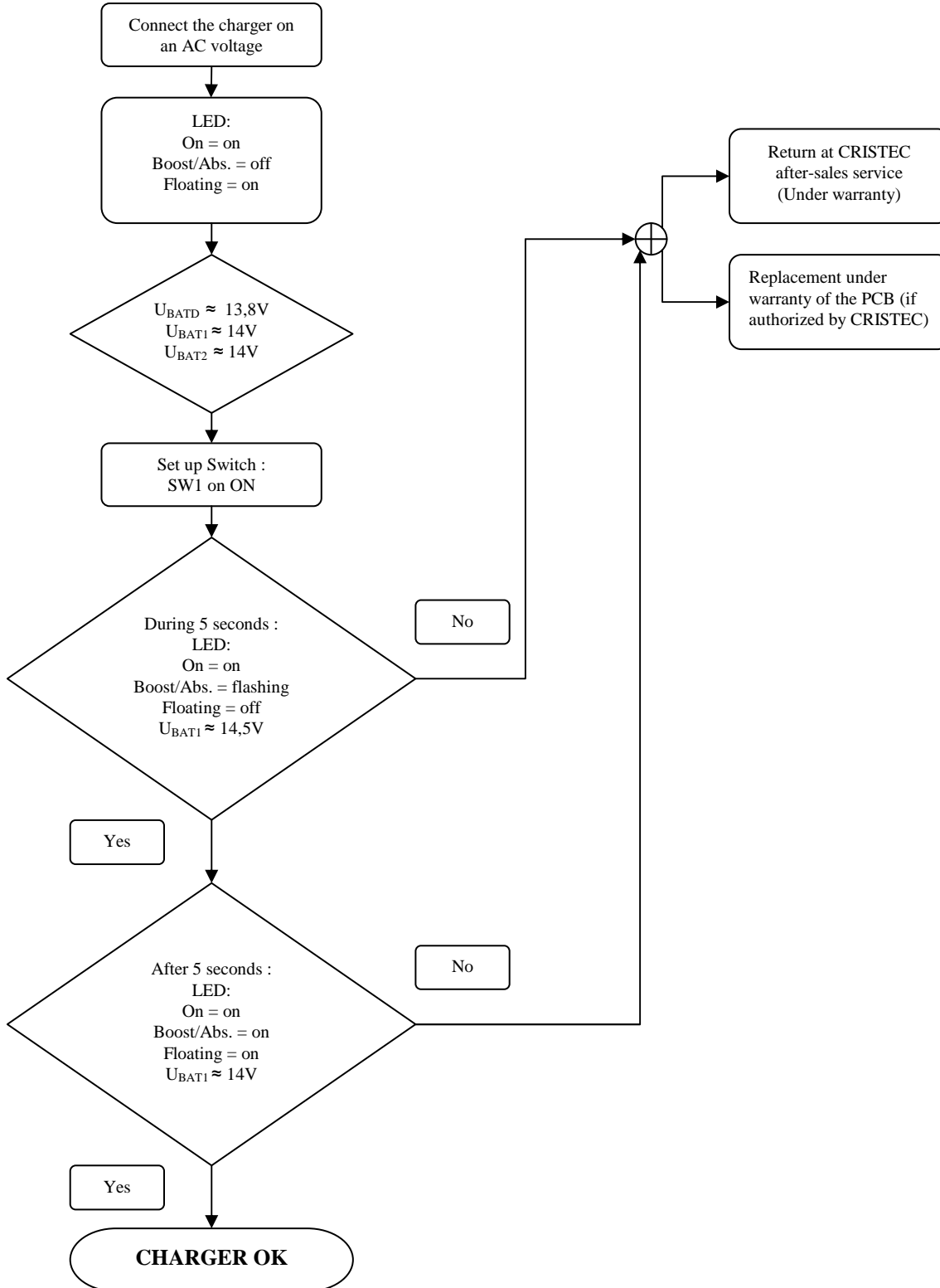




## PROCESS 4:



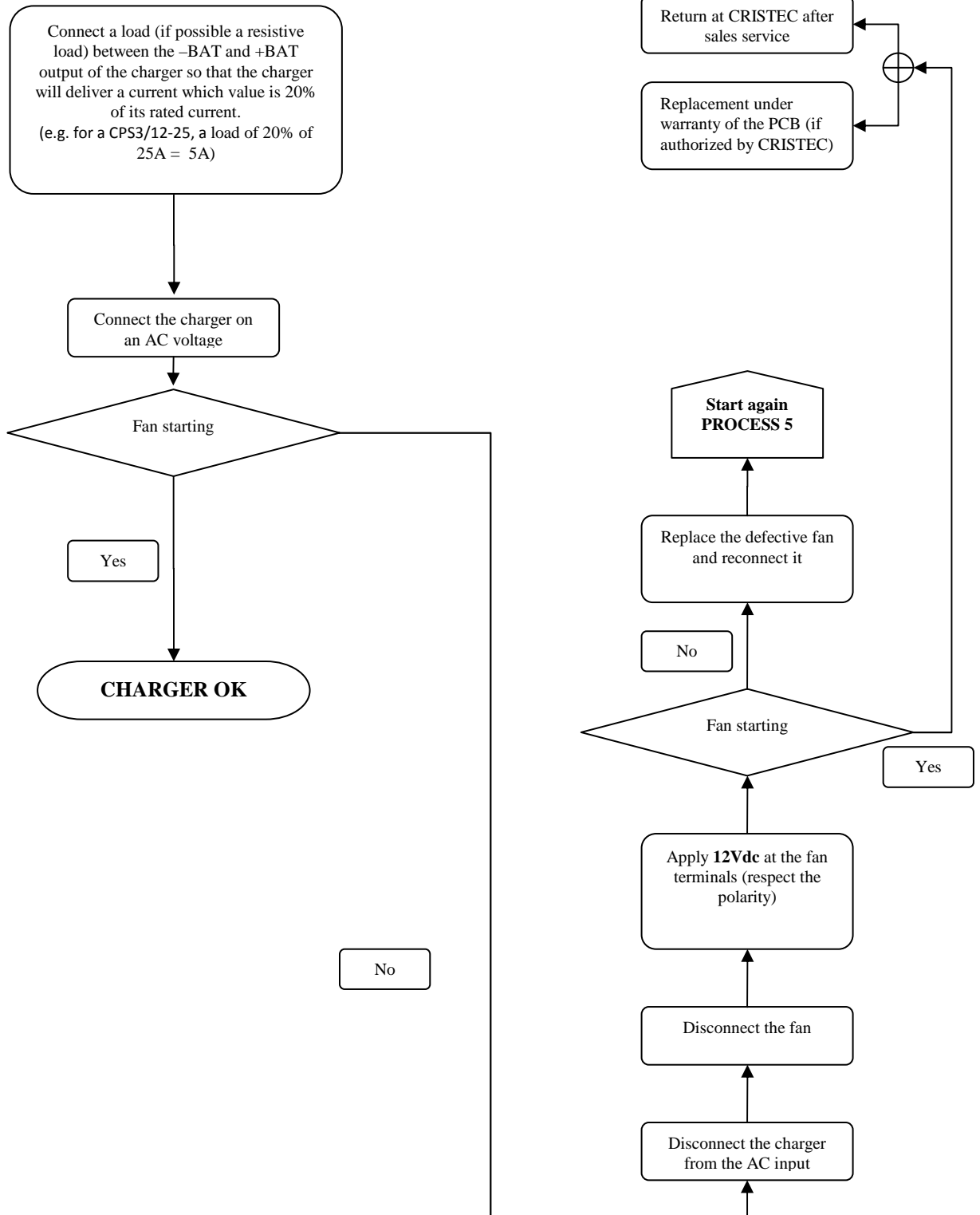
1. TO DO THIS TEST DISCONNECT THE BATTERIES AND ALL CONNECTIONS ON THE OUTPUTS OF THE CHARGER
2. SET UP THE CHARGER : RC1=POS 1



### PROCESS 5:

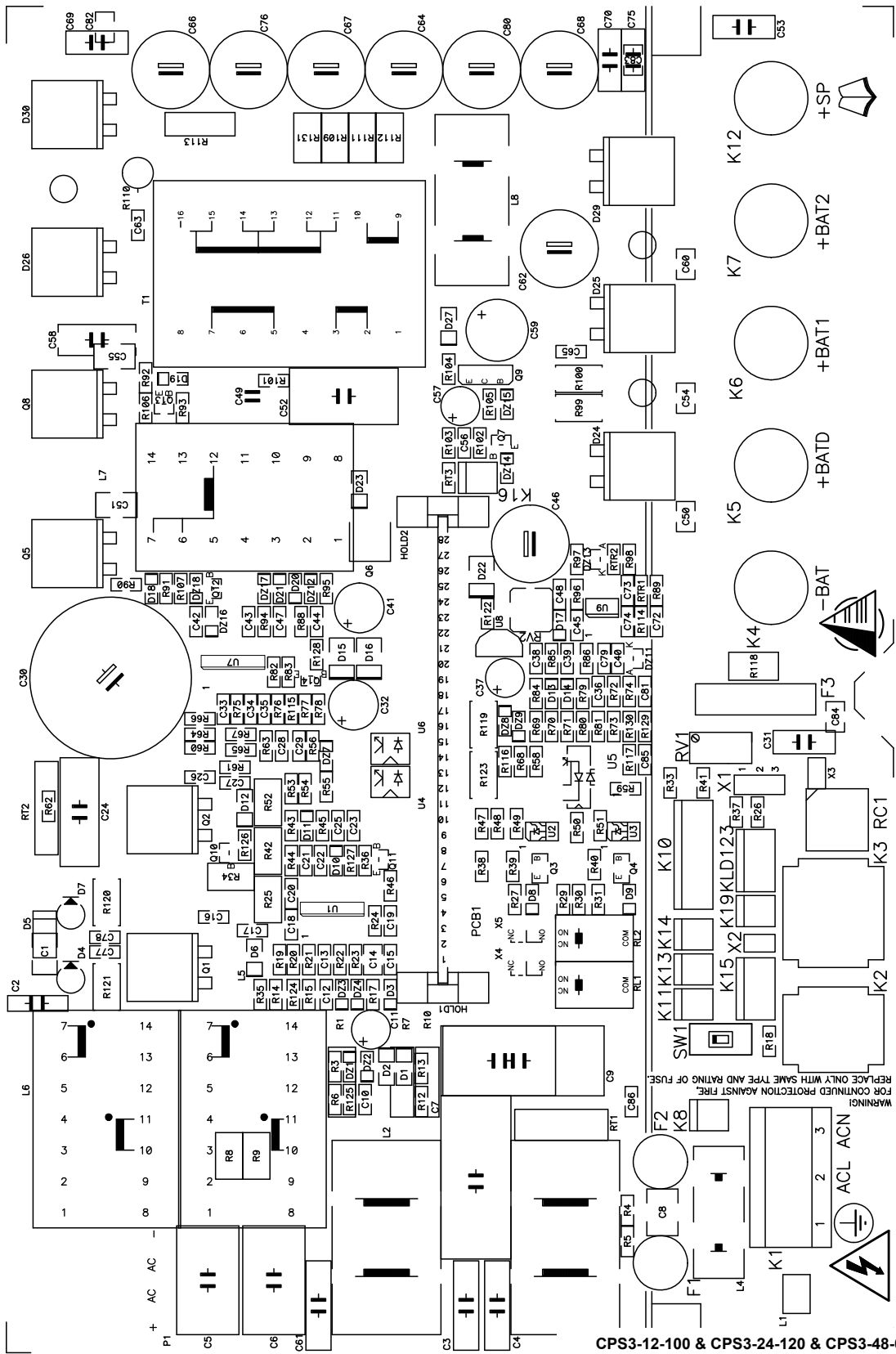


1. TO DO THIS TEST DISCONNECT THE BATTERIES AND ALL CONNECTIONS ON THE OUTPUTS OF THE CHARGER
2. SET UP THE CHARGER : RC1=POS 1



## **3-COVER PLANS FOR CHARGERS CPS3**





CPS3-12-100 & CPS3-24-120 & CPS3-48-60

Title

CPS3-12-16 & CPS3-12-25 & CPS3-24-12



WARNING  
FOR CONTINUED PROTECTION AGAINST FIRE  
REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.

ACL ACN

1 2 3

K1

K2

K3 RC1

K4

-BAT

K5

+BATD

+BAT1

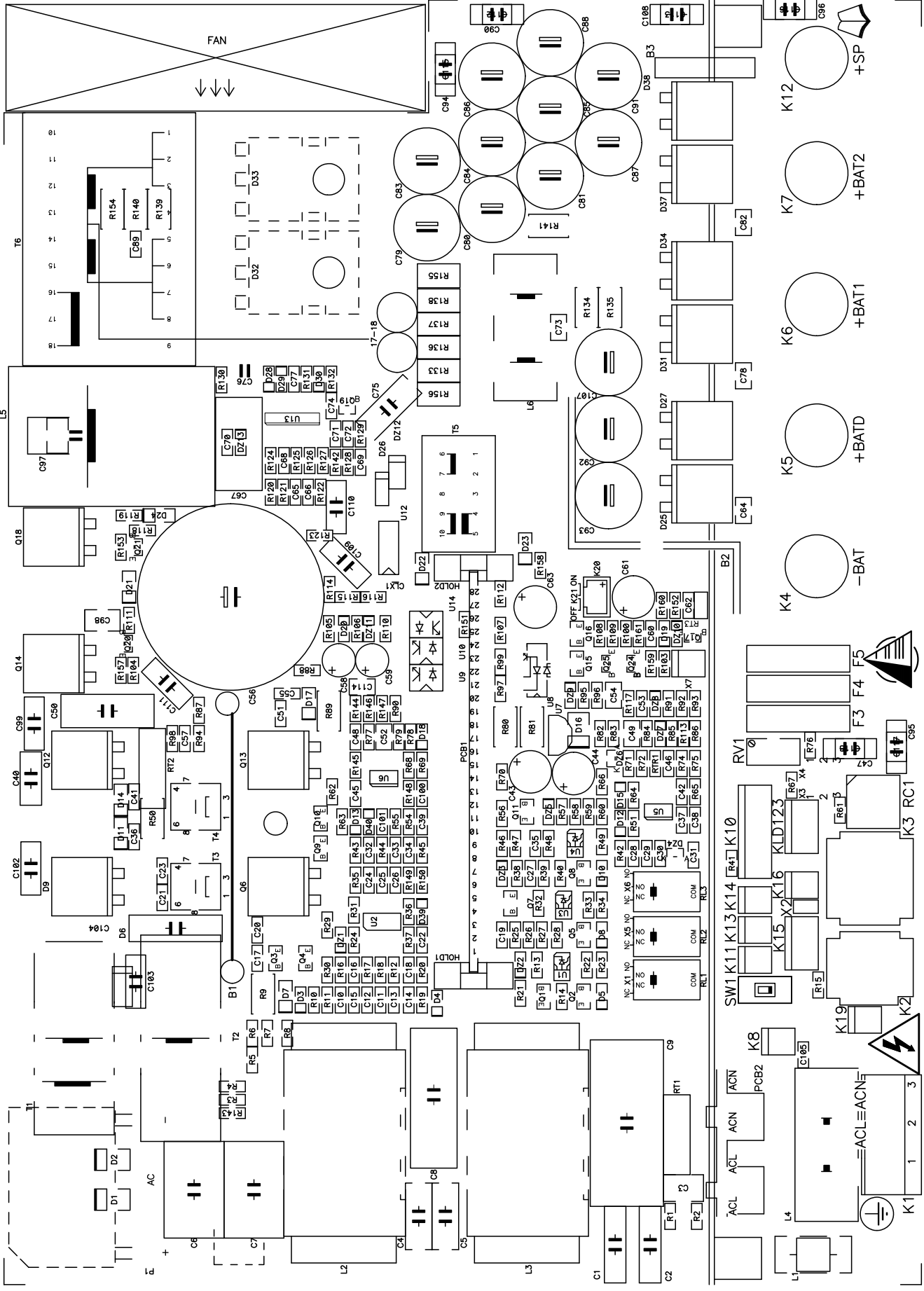
+BAT2

K7

+SP

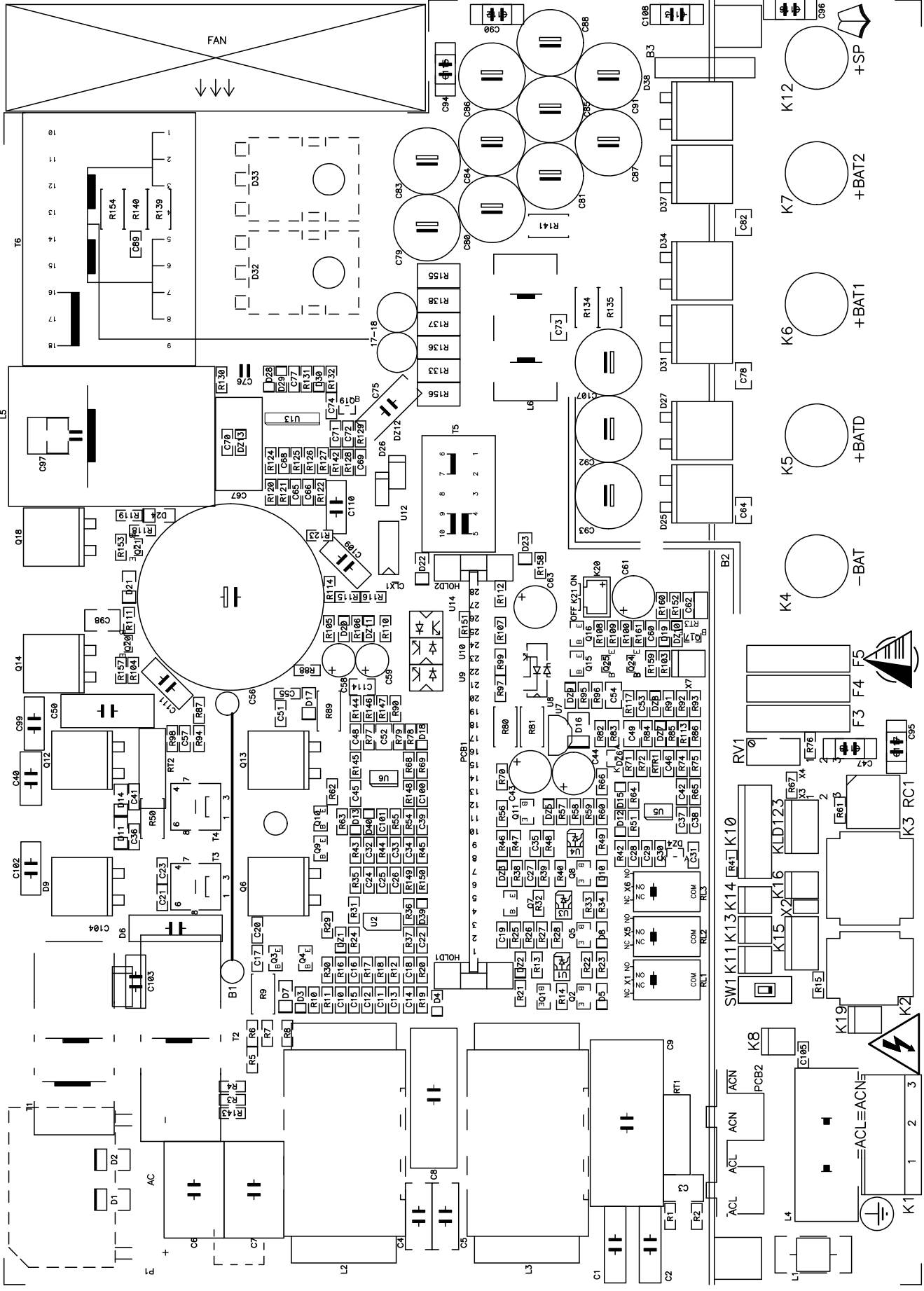
K12

C53



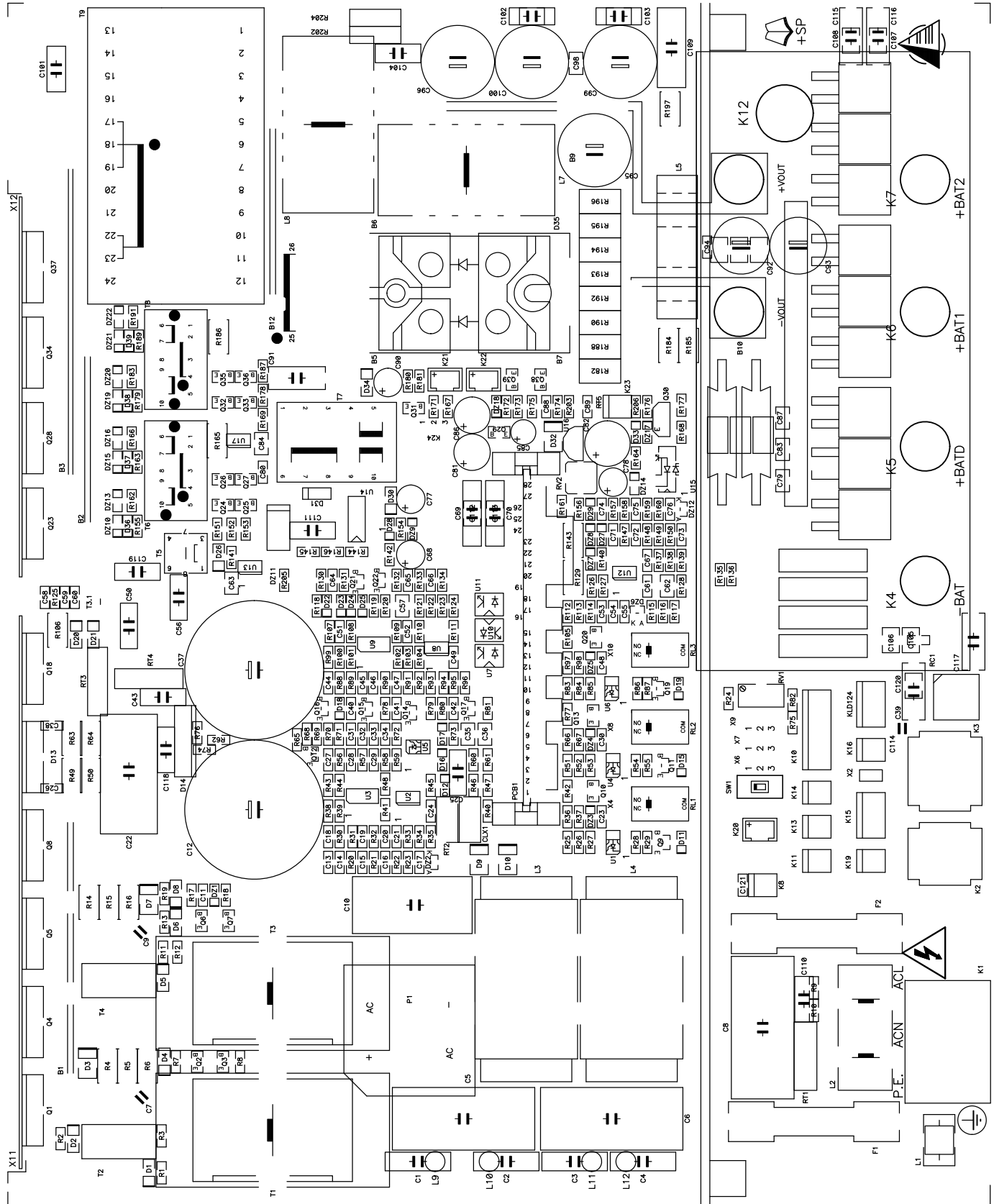
CPS3-12-40 & CPS3-24-20

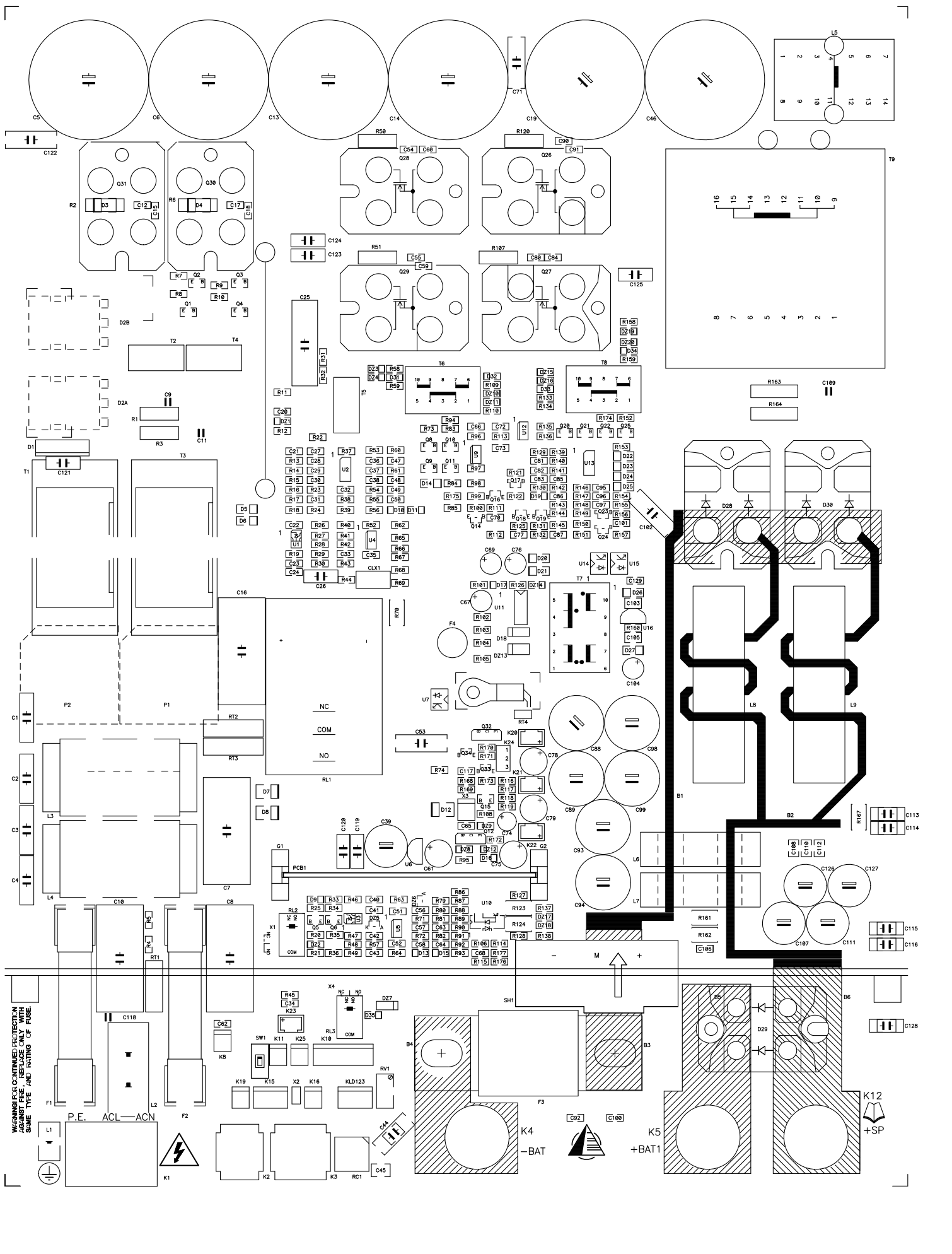
Title



CPS3-12-60 & CPS3-24-30 & CPS3-48-15

Title





WARNING: CONTINUED PROTECTION AGAINST FIRE. REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.

P.E. ACL-ACN



Title CPS3-12-100 & CPS3-24-120 & CPS3-48-60



