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BELROBOTICS

Troubleshooting Guide for Belrobotics robots ≥ 2013



1) Introduction:

This document is intended to help the owner of a Belrobotics robot to intervene effectively in the event of a malfunction of the robot before calling his distributor - importer.

It contains information - in a flowchart form - necessary to intervene effectively for each alarm that may appear on the screen of the robot, that you can receive by an SMS (if the robot is equipped with a T&T module) or that you can find in the history taken from the Dealer Tools Suite 6.0 program.

2) Explanation of the flowchart:

a) Definition:

A flowchart is an analytical tool that allows to present tasks or events in a orderly and sequential manner. It consists of a set of symbols connected by arrow.

Each symbol represents a task or an event and the arrow shows the priority or follow-up between 2 consecutive tasks.

b) Rule:

The symbols used to show the events or tasks of a process have different forms and meanings:

- **The ellipse** : it symbolizes the first and last event (trigger event and final event);
- **The rectangle** : it symbolizes all other events within the process;
- **The diamond** : it symbolizes a stage where a choice needs to be made. This is usually a question that is answered by 'yes' or 'no';
- **The half-rectangle** : it symbolizes one or more documents.

c) Colors coding:

Several colours are used, they allow you to recognize the skills needed to perform the troubleshooting.

Green : action can be taken by a 'normal' end-user ;

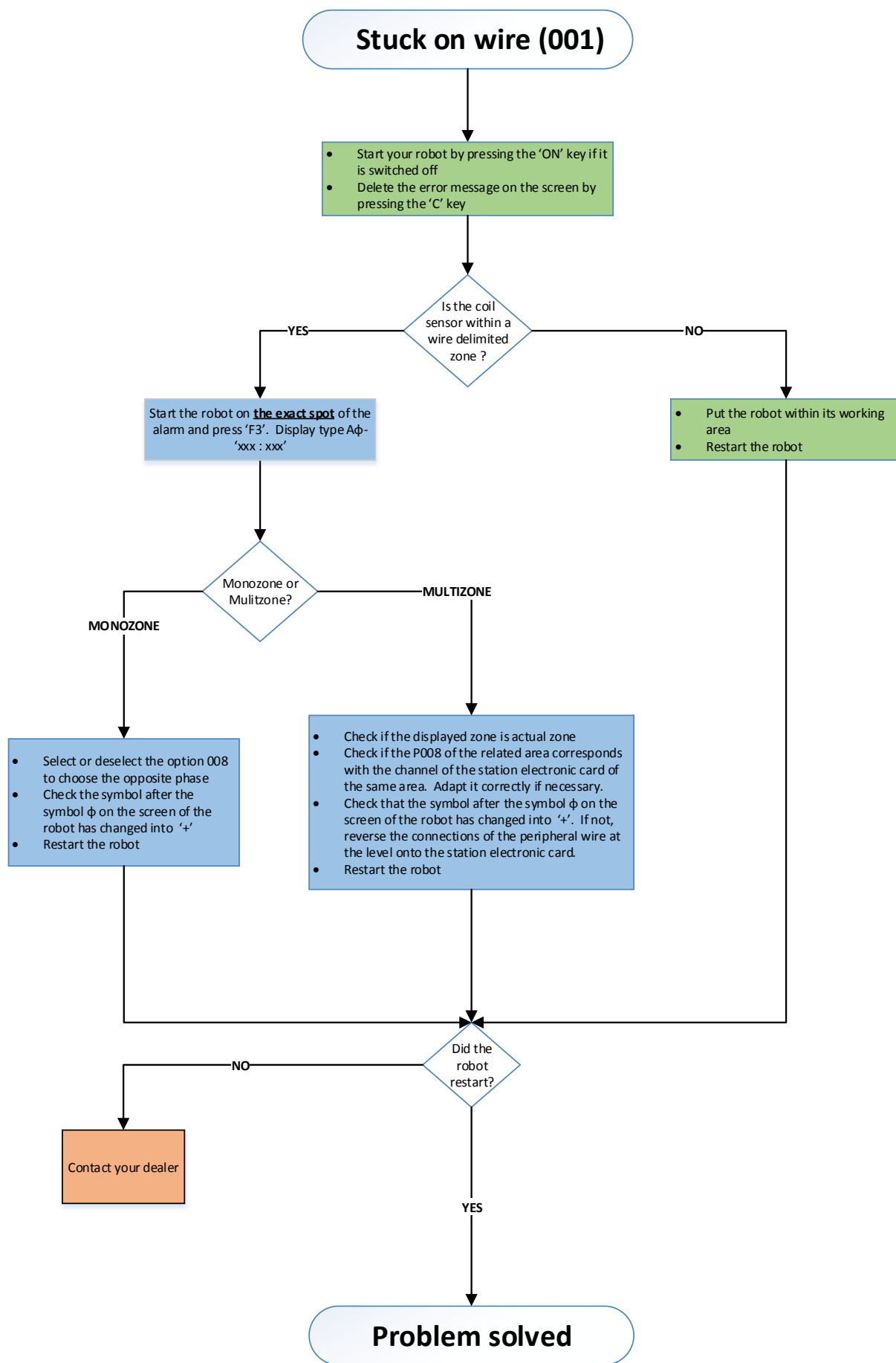
Blue : action should be taken by an 'experienced' end-user ;

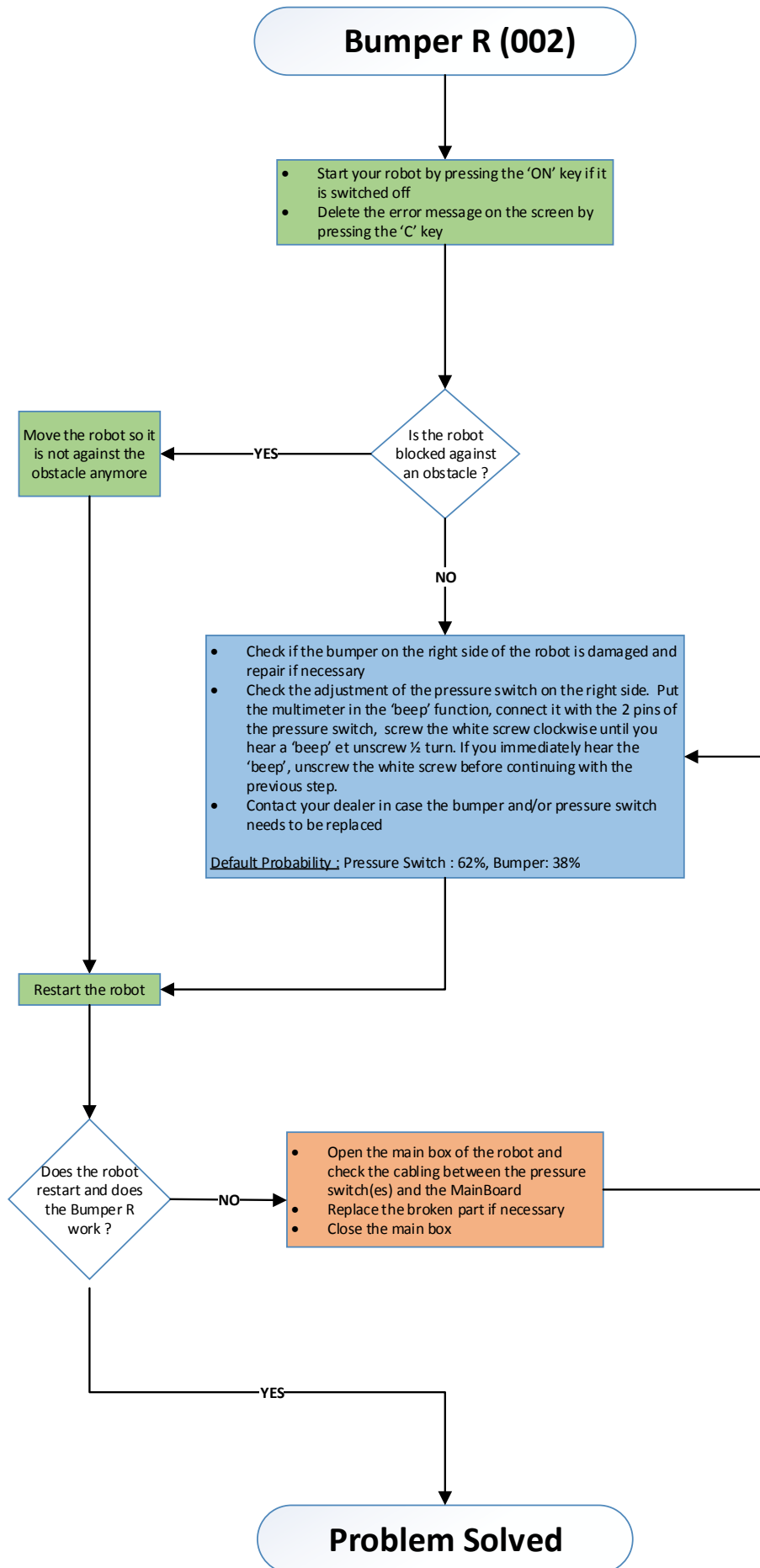
Orange : action should be taken by a distributor-importer ;

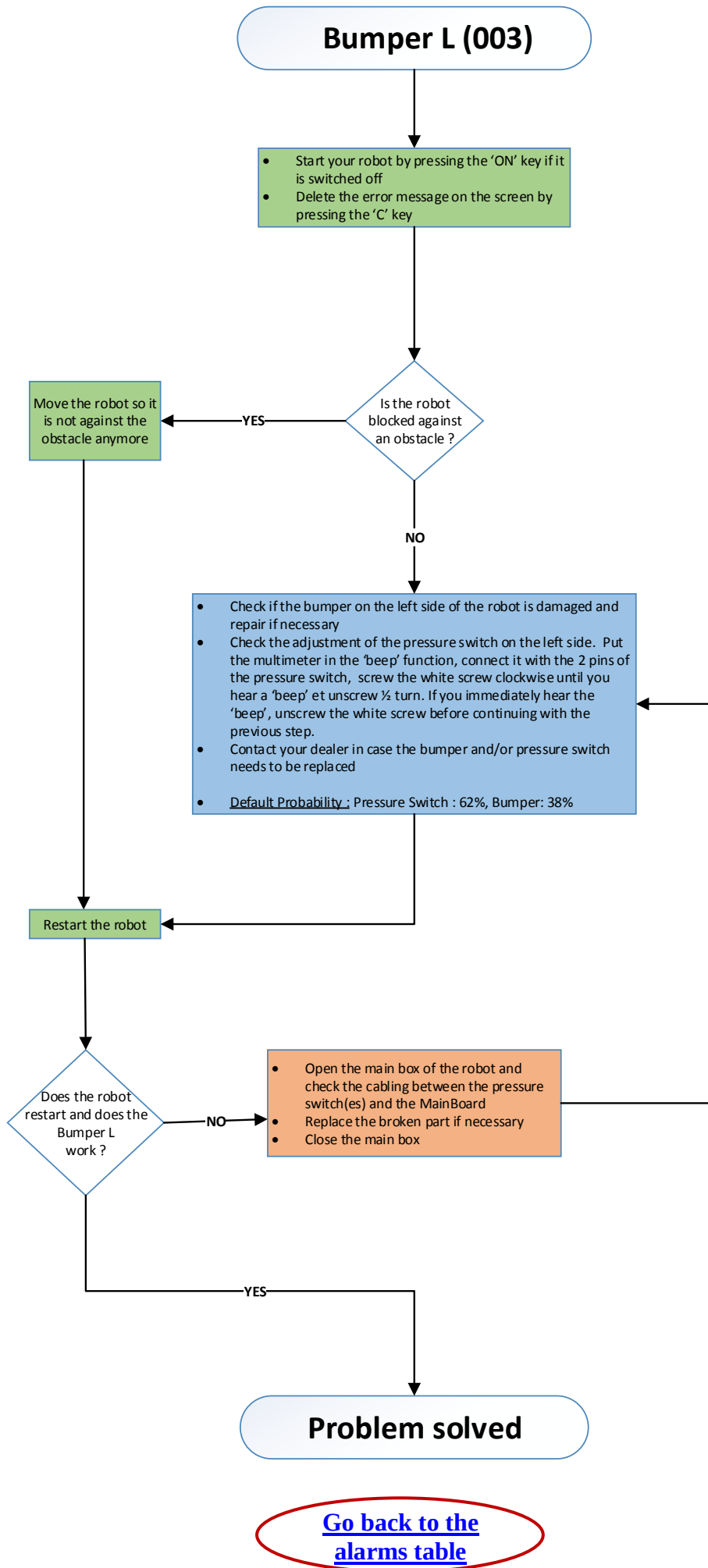
Grey : action should be taken by the manufacturer.

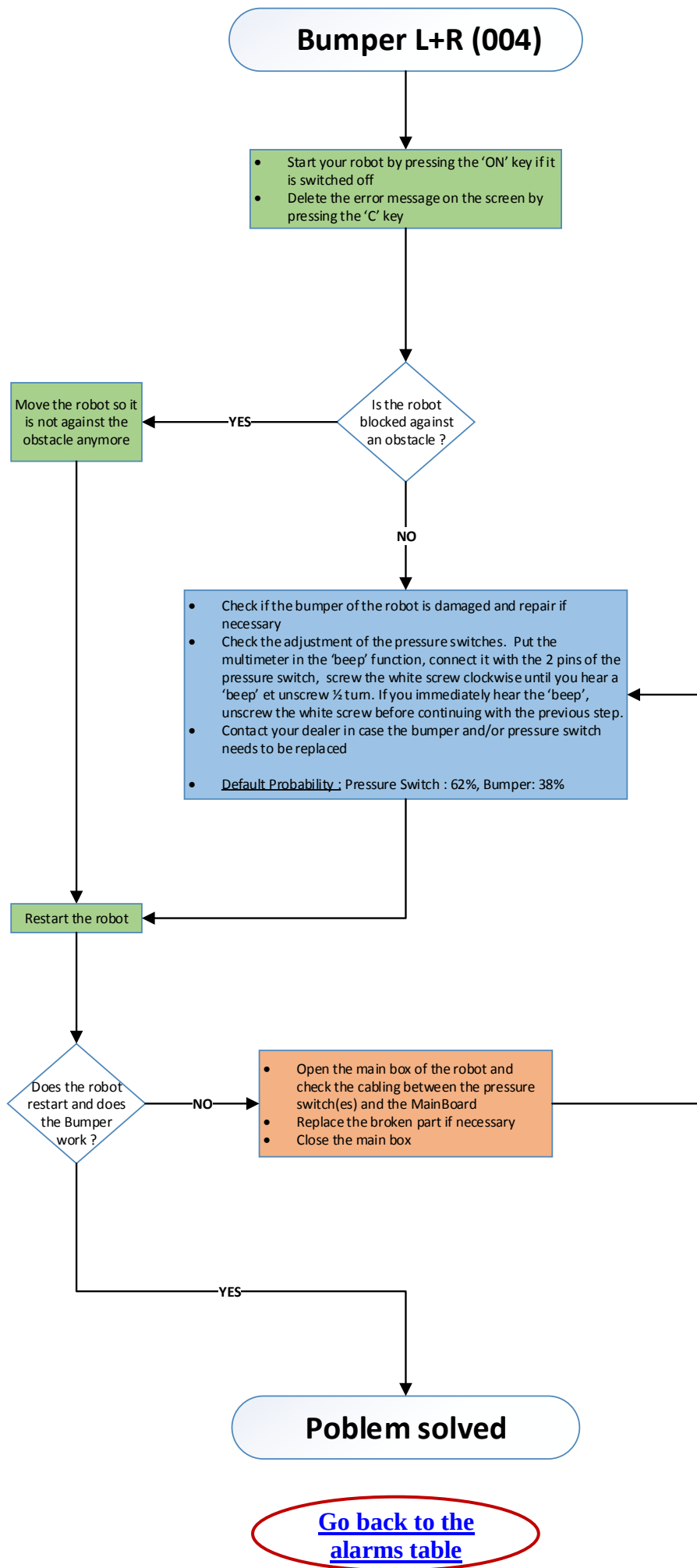
3) Alarms table:

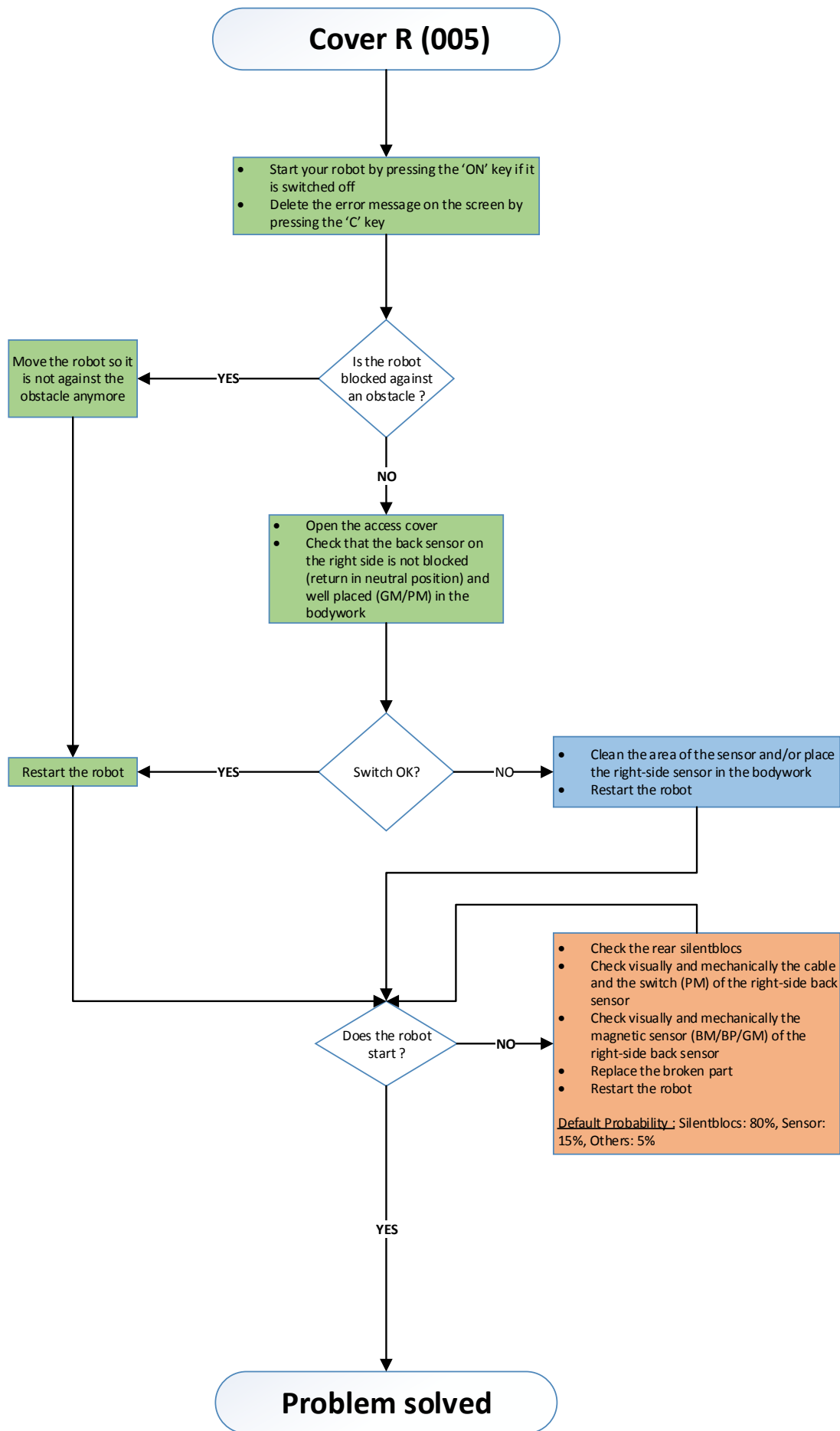
Alarms				
#	Ecran du robot	SMS	DTS 6.0	Page
1	Stuck on wire	Alarm Stuck on wire	Blocked on wire	4
2	Bumper R	Alarm Bumper R	Right bumper failure	5
3	Bumper L	Alarm Bumper L	Left bumper failure	6
4	Bumper L+R	Alarm Bumper L+R	Bumper failure	7
5	Cover R	Alarm Cover R	Right body switch failure	8
6	Cover L	Alarm Cover L	Left body switch failure	9
7	Cover L+R	Alarm Cover L+R	All body switch failure	10
8	Code needed	Alarm Code expired	Expired security code	11
9	Charge contact ?	Alarm Missed charge contact	No charge contact	12
10	Discharged	Alarm Discharged	Battery voltage too low	13
11	Check ball det.	Alarm Check ball detector	Ball detector failure	14
12	Busy elevator ?	Alarm Busy elevator	Unload station busy	15
13	Wire lost	Alarm Wire lost	Wire lost	16
14	No wire signal	Alarm No wire signal	No wire signal	17
15	No station found	Alarm No station found	No station found	18
16	Wheel slipping	Alarm Wheel slipping	Wheel slipping	19
17	Supply outage	Alarm Supply outage	Charge lost	20
18	Wheel R	Alarm wheel R blocked	Right wheel blocked	21
19	Wheel L	Alarm wheel L blocked	Left wheel blocked	22
20	Wheels L+R	Alarm wheels L+R blocked	All wheels blocked	23
21	Lifted !	Alarm Lifted !	Lifted	24
22	Head 1	Alarm Head(s) blocked	Cutting head	25
23	Head 2	Alarm Head(s) blocked	Cutting head	26
24	Head 3	Alarm Head(s) blocked	Cutting head	27
25	Head 4	Alarm Head(s) blocked	Cutting head	28
26	Head 5	Alarm Head(s) blocked	Cutting head	29
27	F. wheel blocked ↓	Alarm Front wheel blocked down	Going down roller blocked	30
28	F. wheel blocked ↑	Alarm Front wheel blocked up	Going up roller blocked	31
29	Trap blocked ↓	Alarm Trap blocked down	Closing trap blocked	32
30	Trap blocked ↑	Alarm Trap blocked up	Opening trap blocked	33
31	Battery ID ?	Alarm Wrong Li Battery type	Battery identification problem	34
Problems without alarms				
101	Keyboard does not respond			35
102	Does not charge			36
103	Does not start			37
104	Does not slow down			38
105	Does not switch ON			39
106	Permanent low speed			40
107	Deep Discharge			41

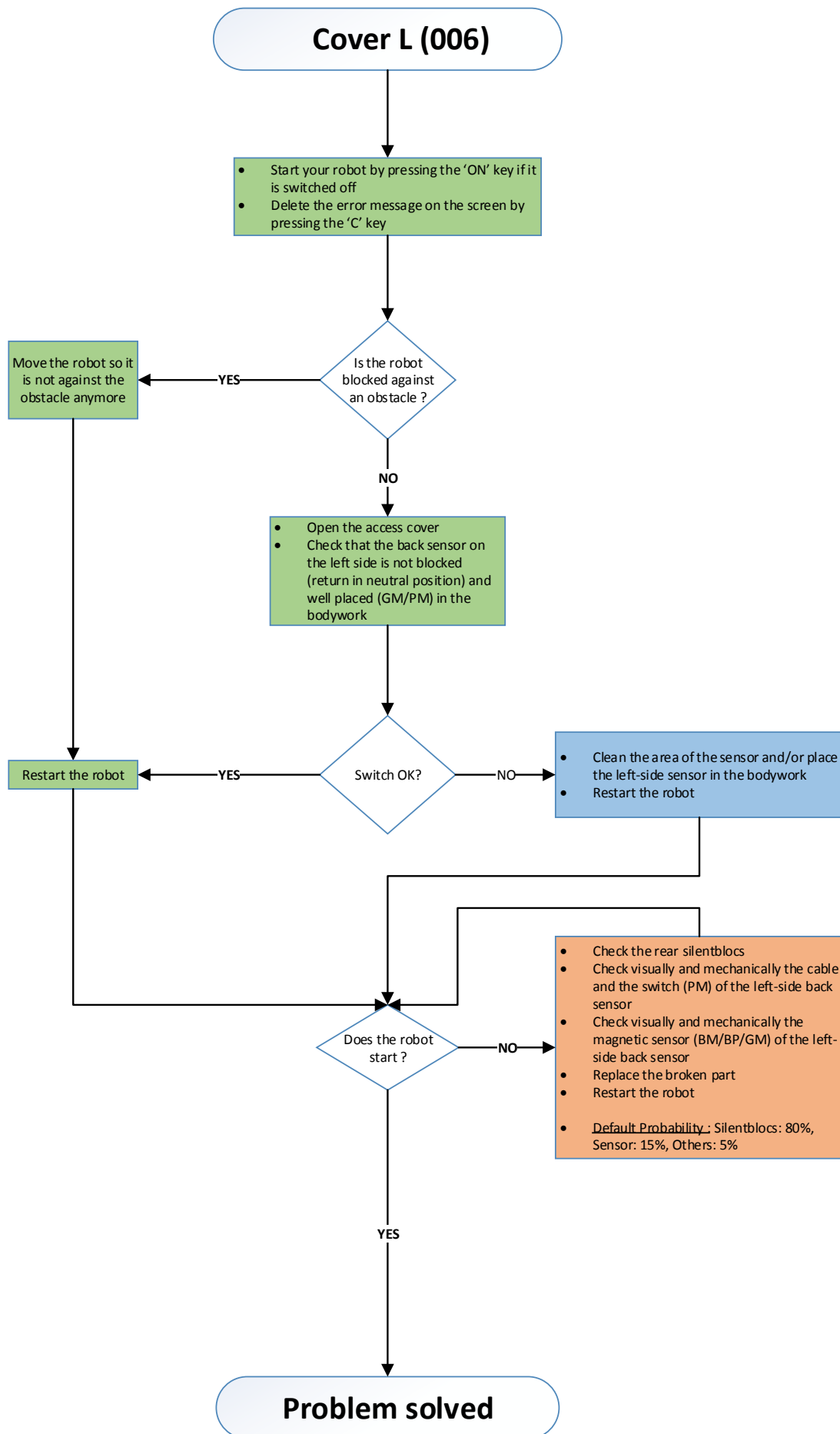


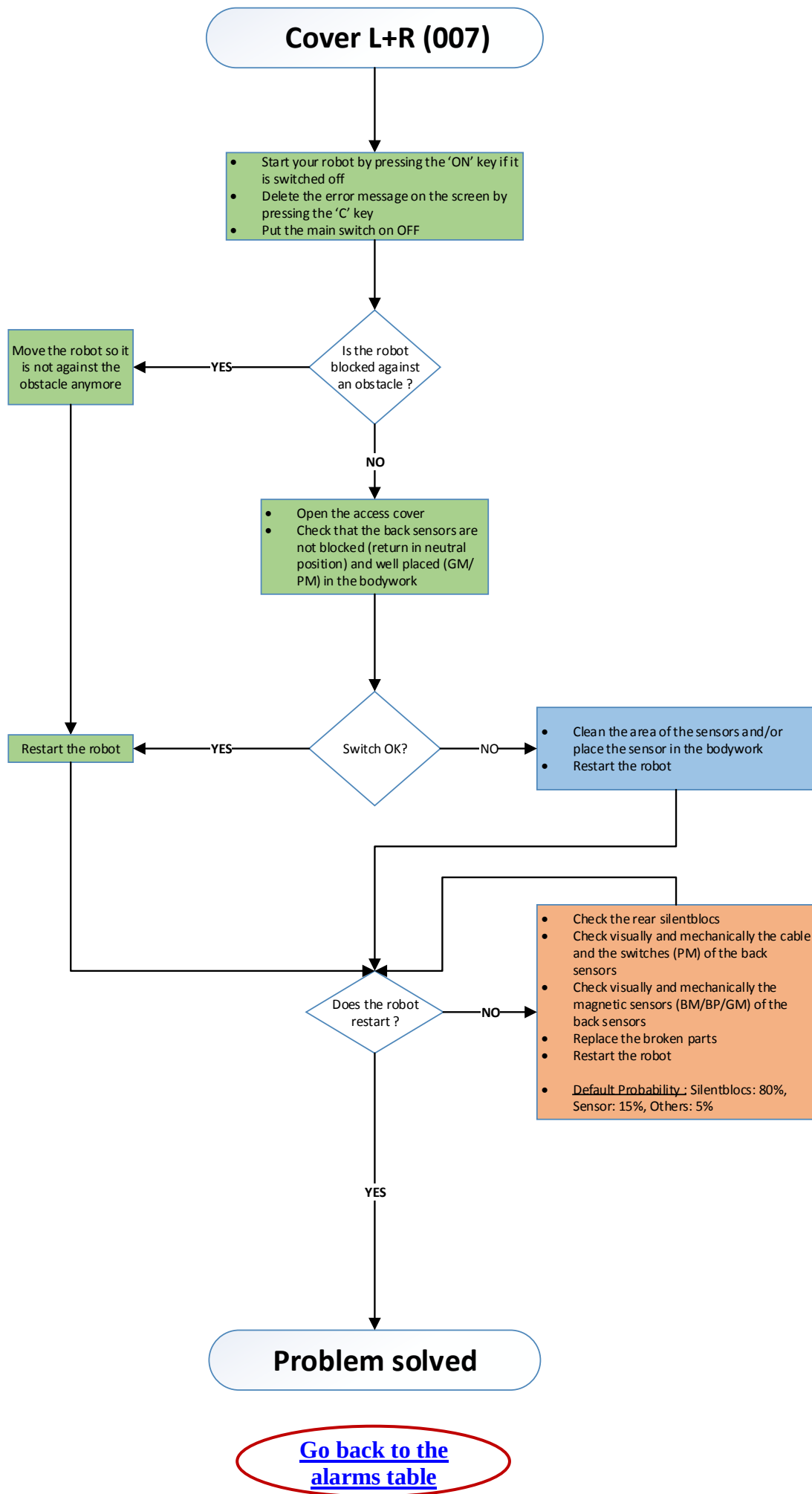


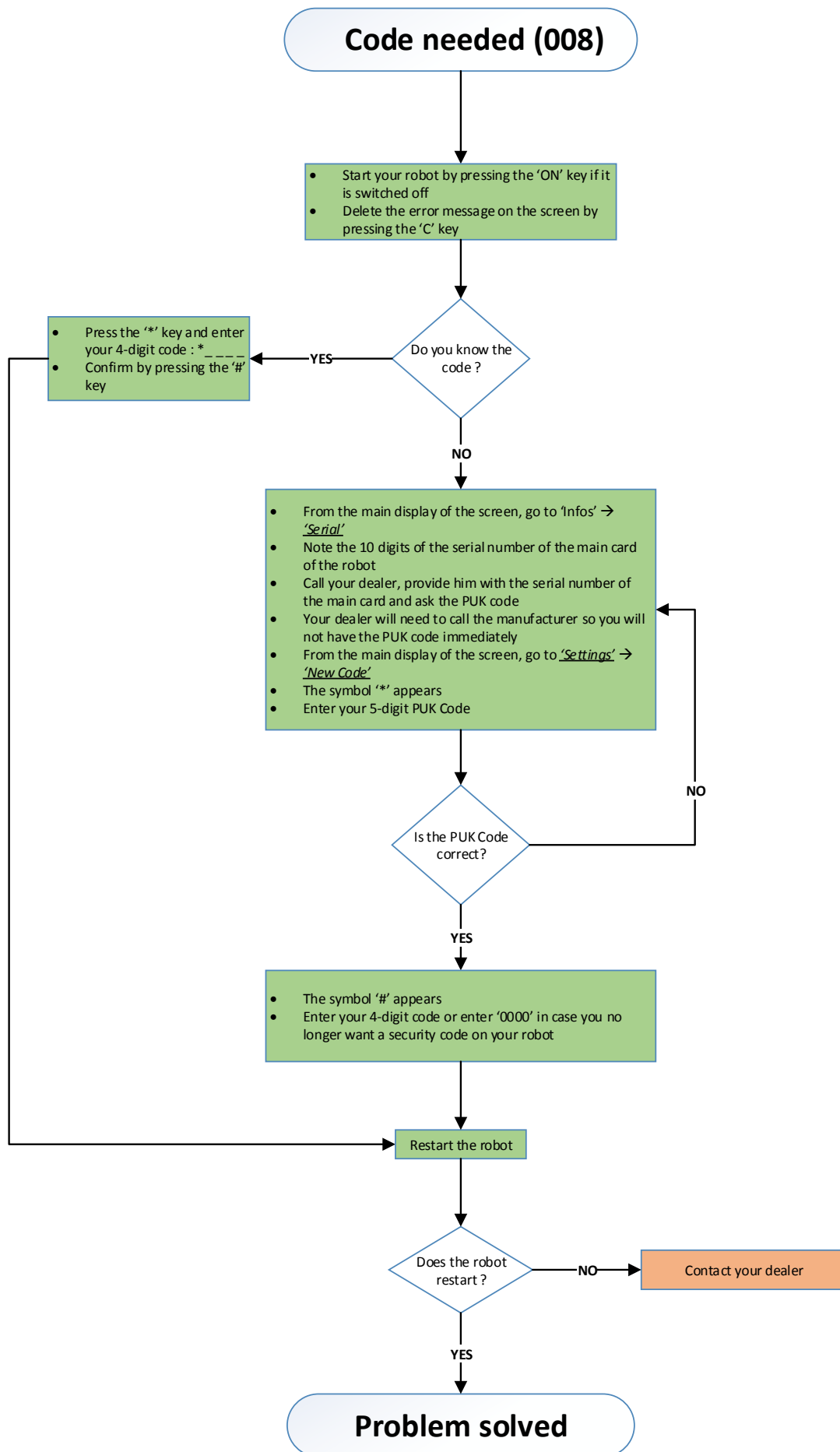


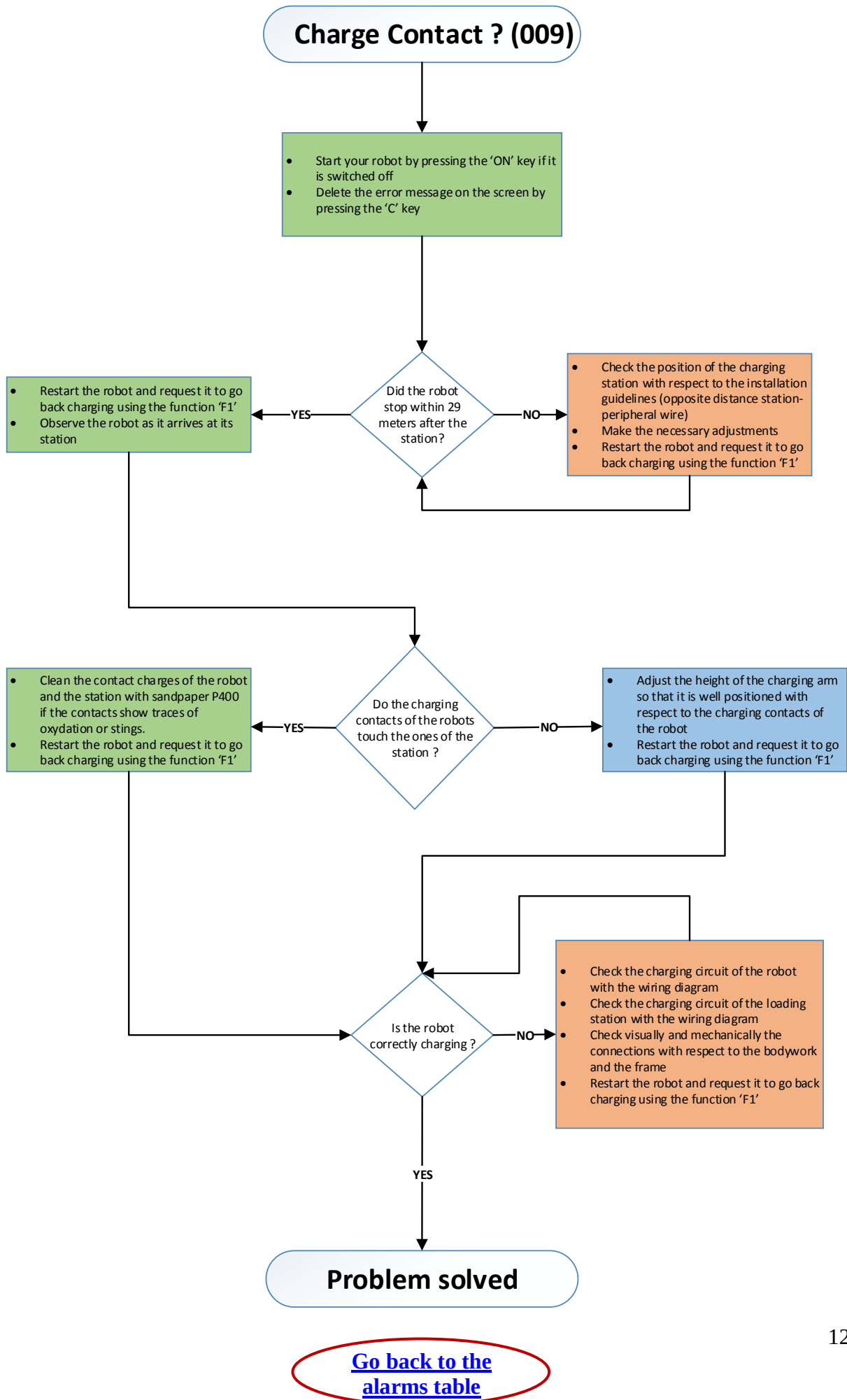


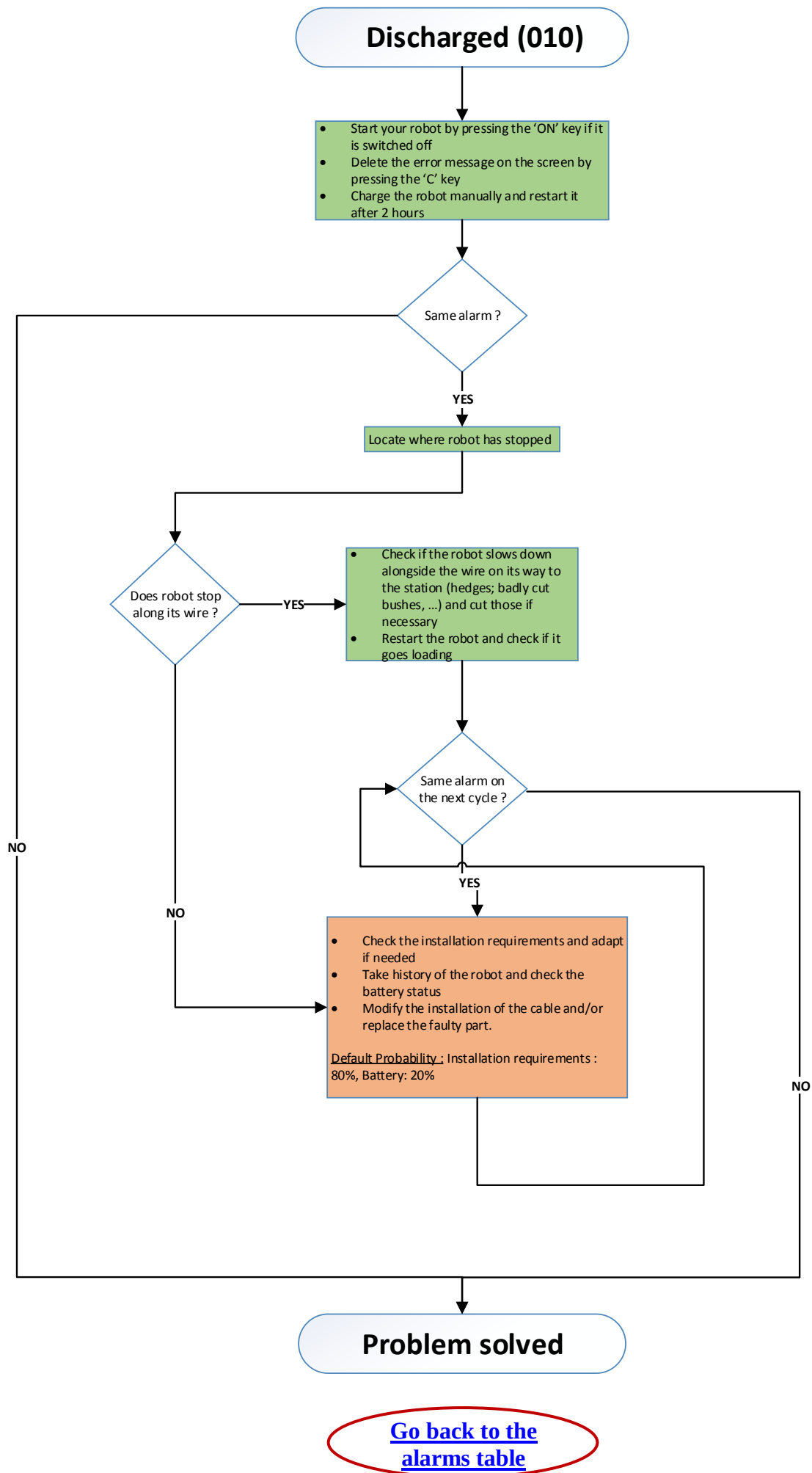


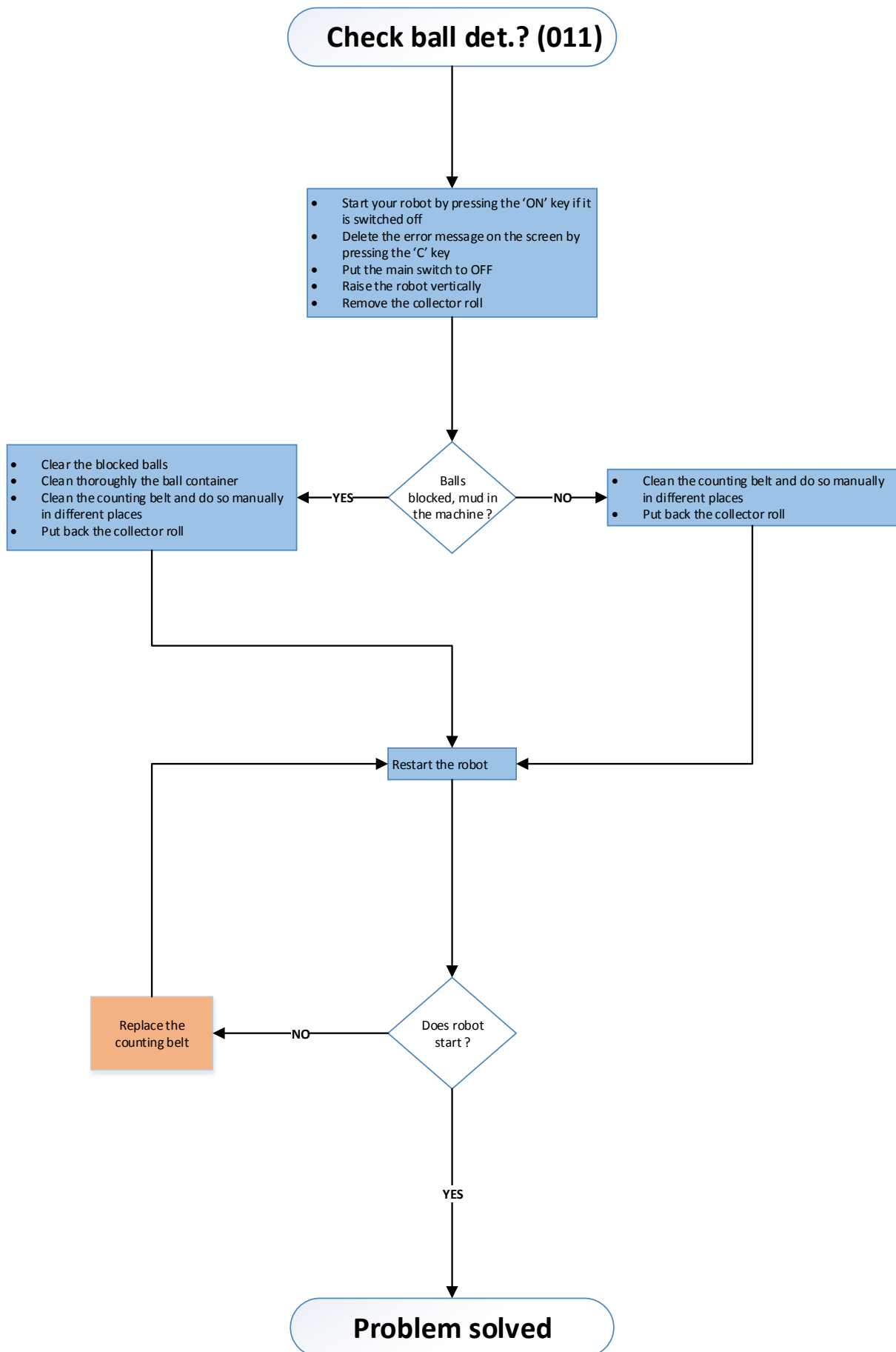


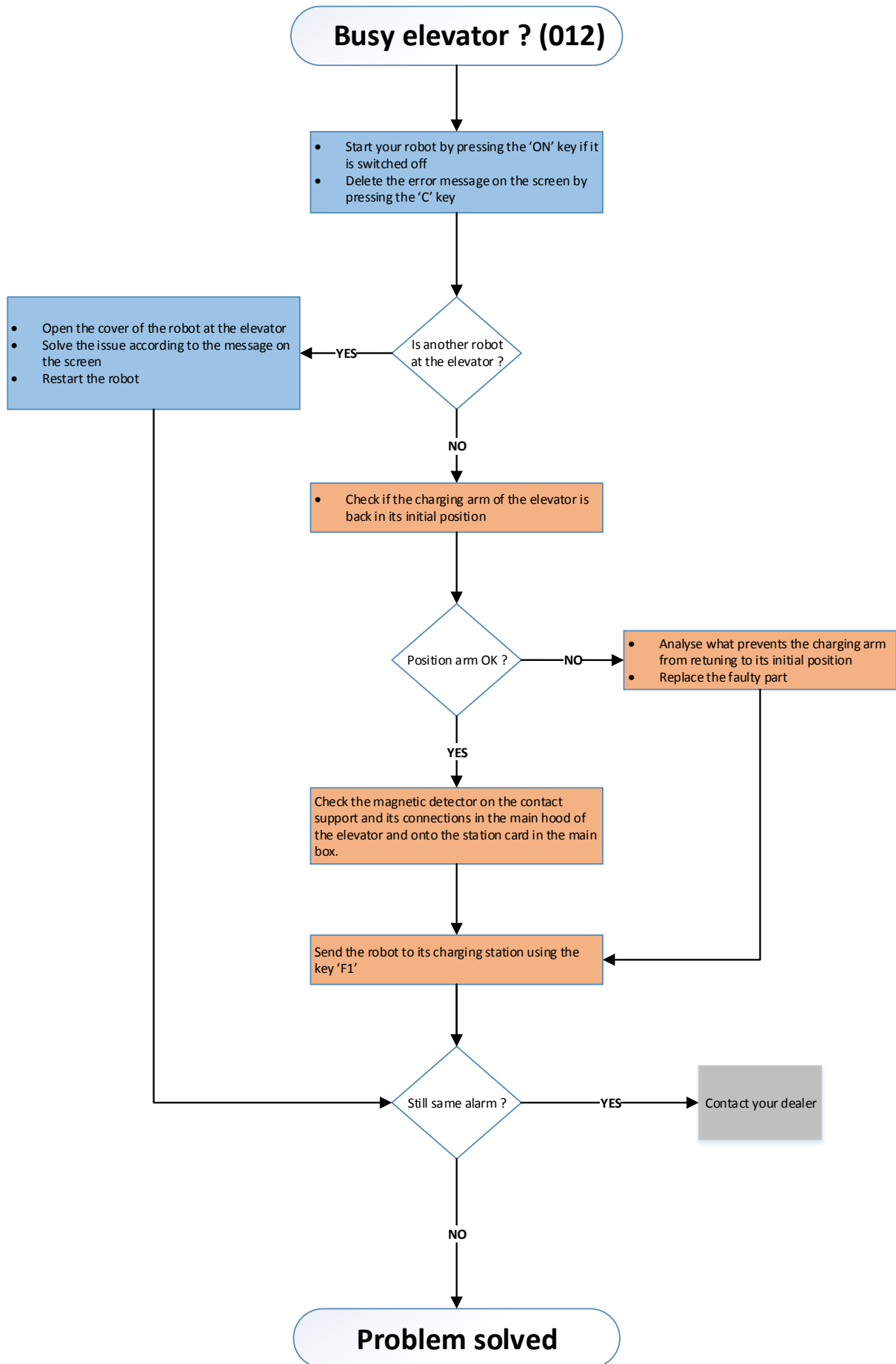


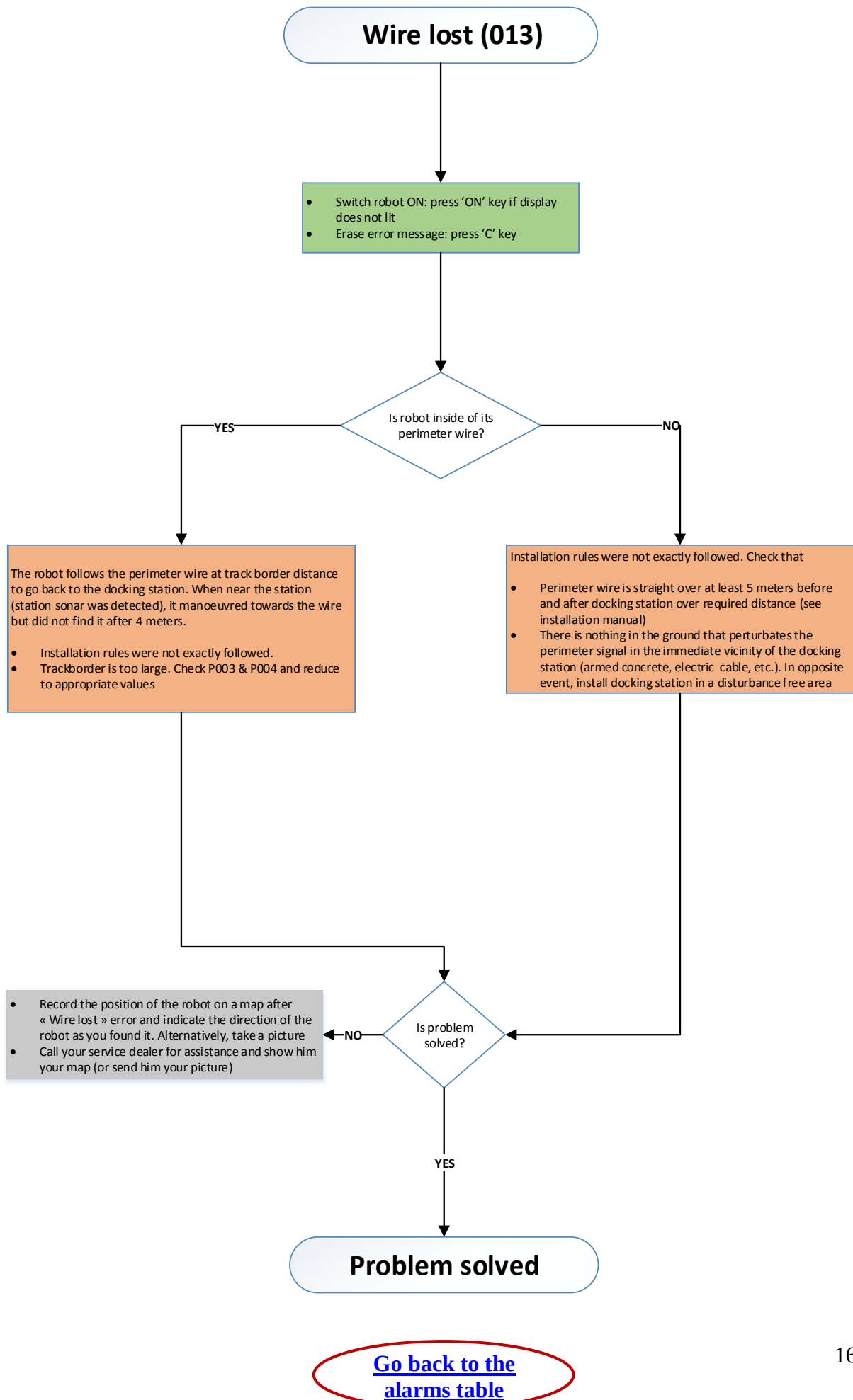


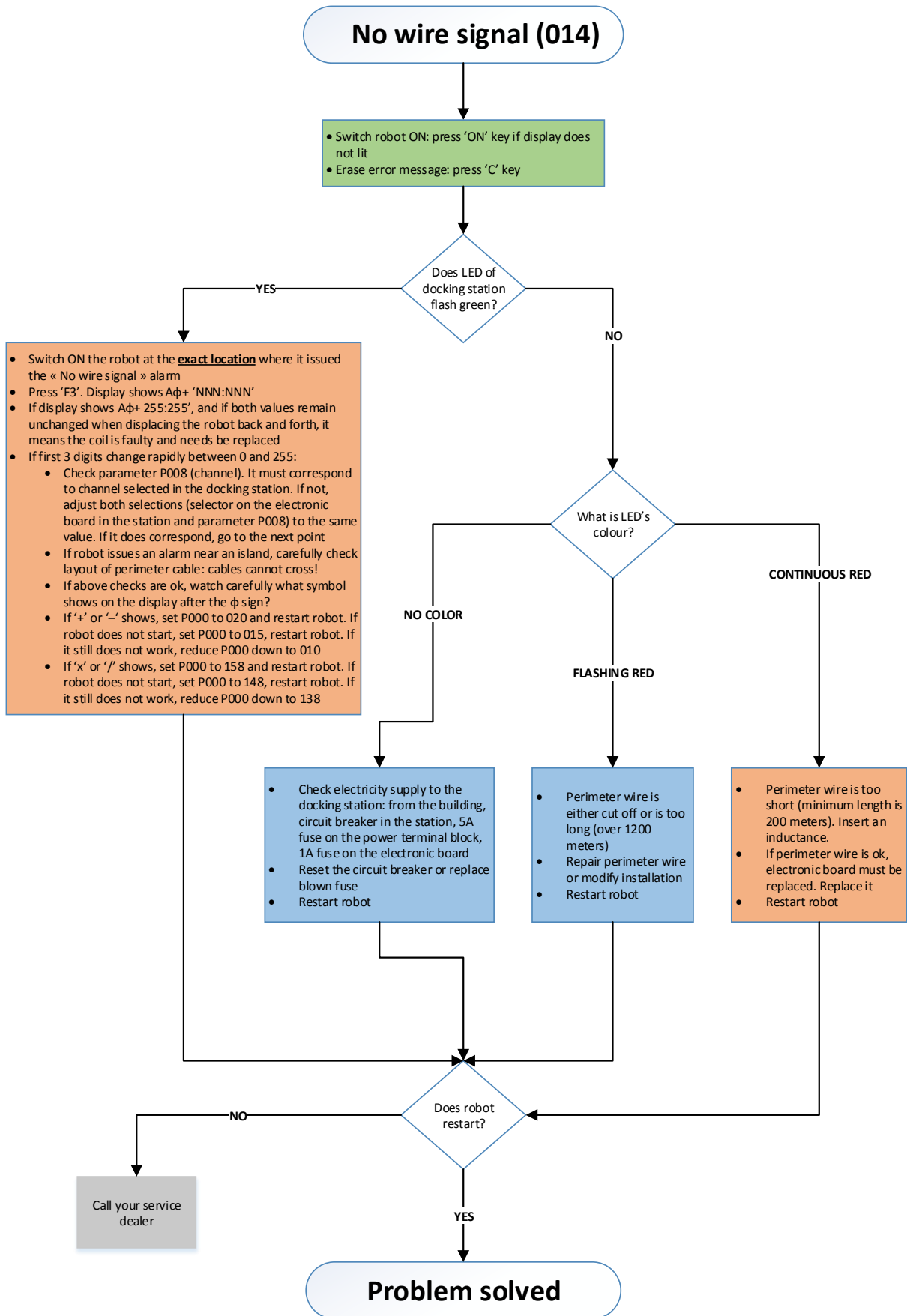




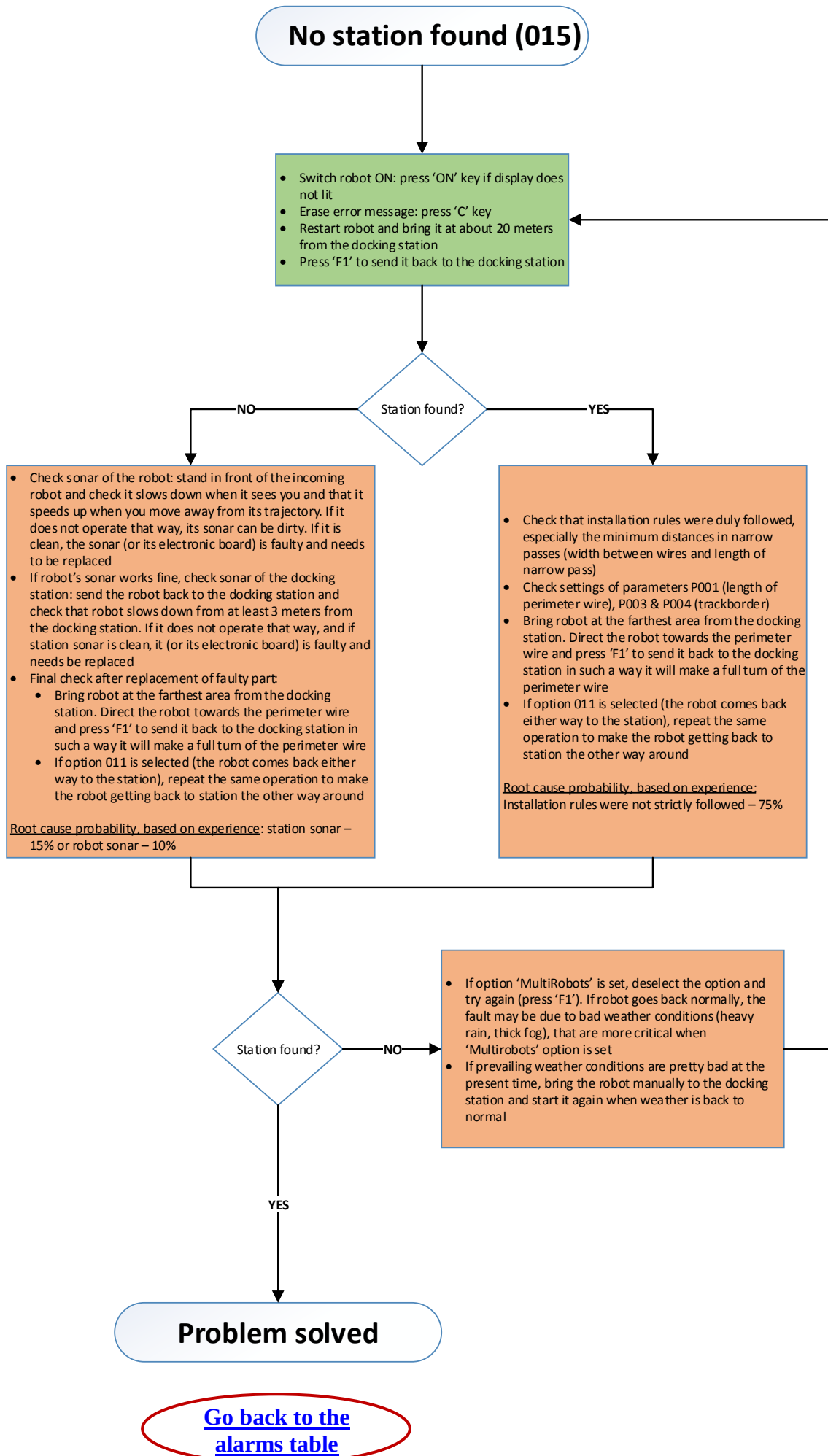


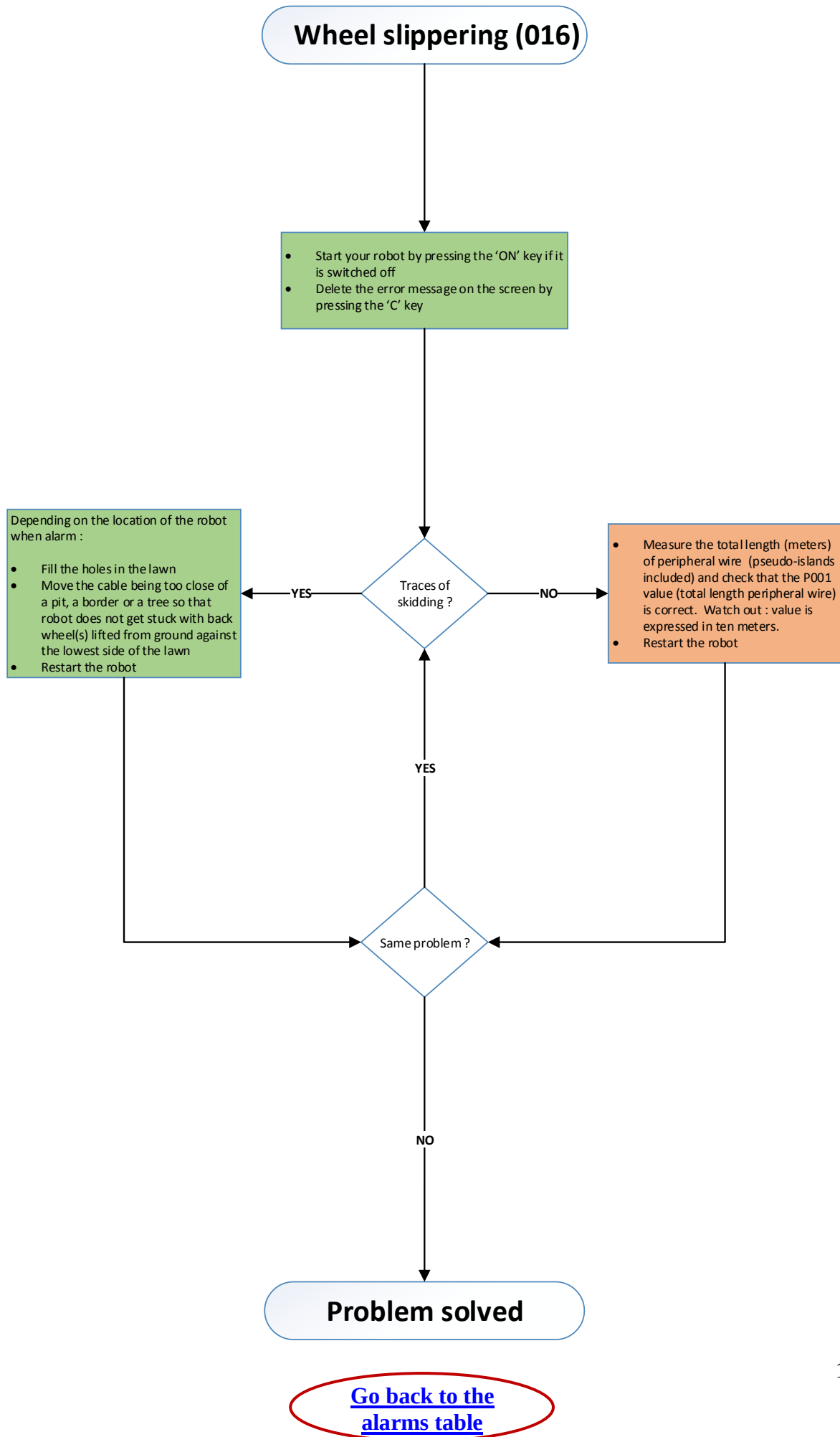


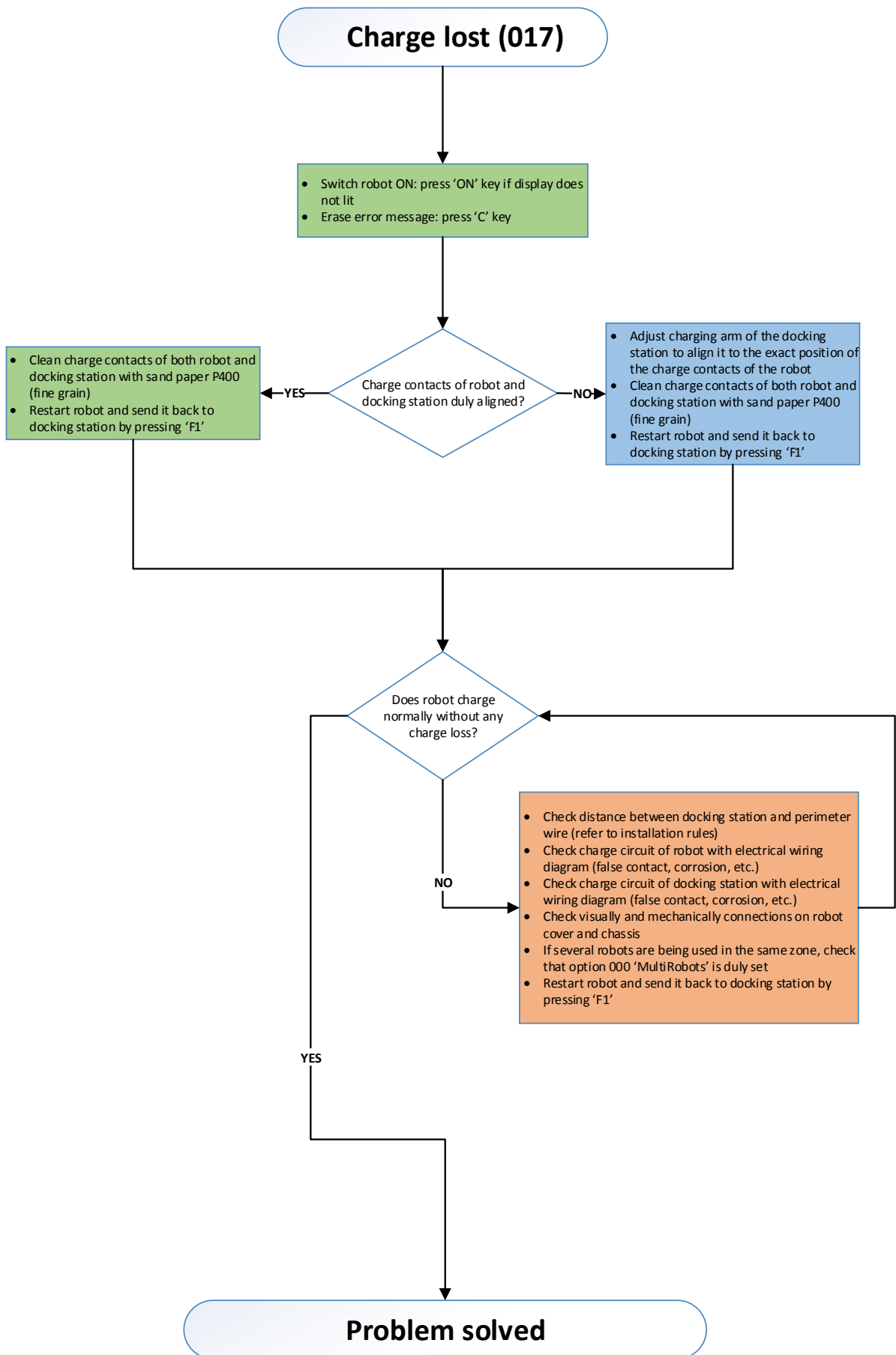


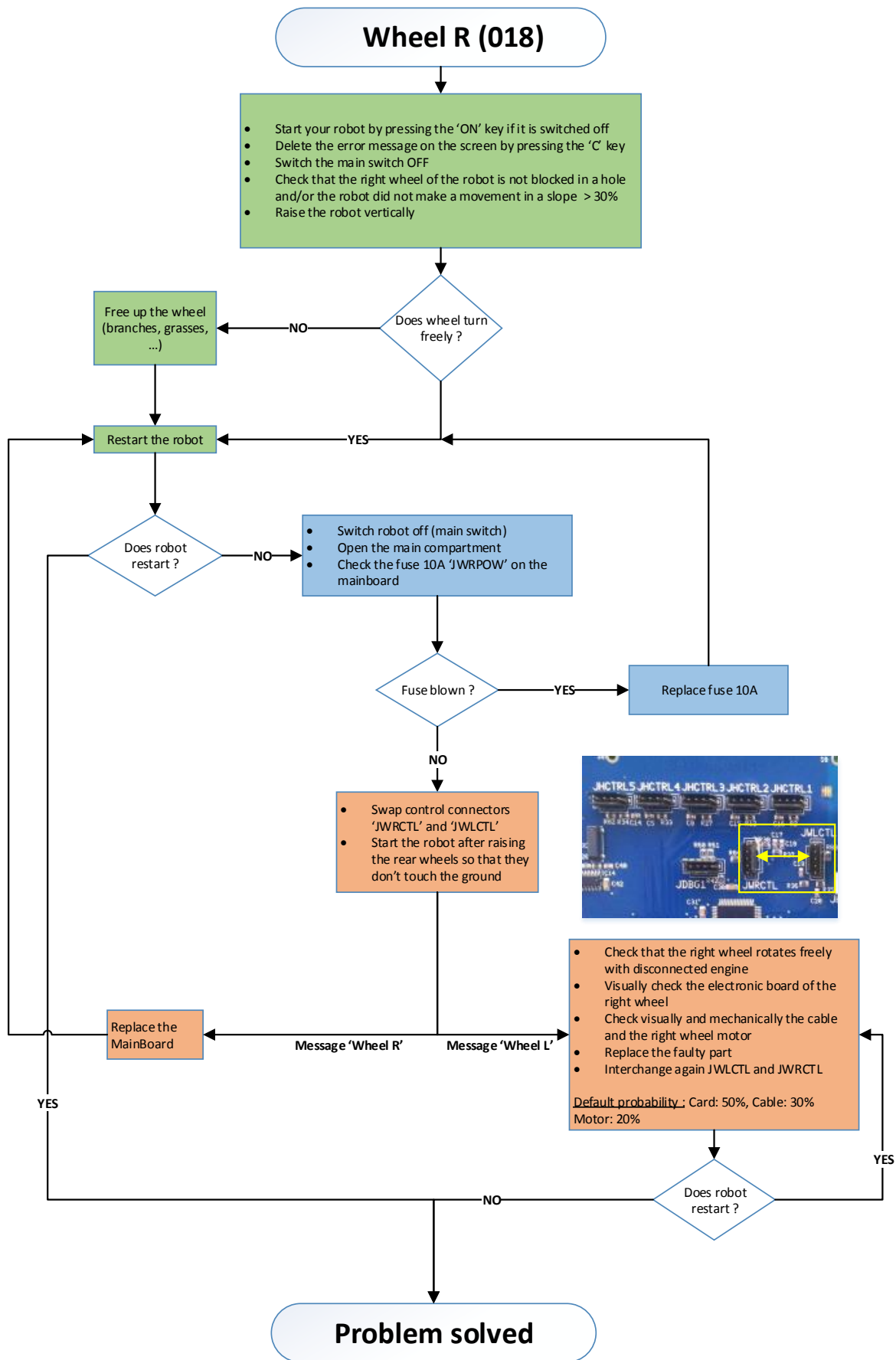


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