

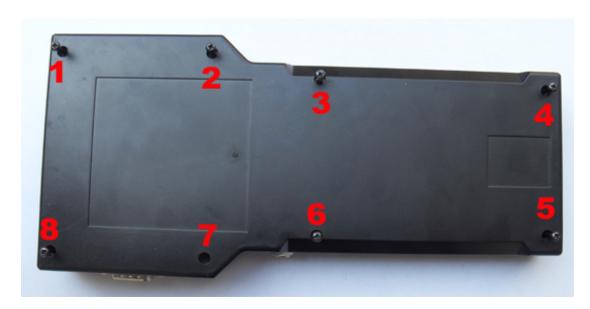
TACHO Universal hand-held Device Repair Instructions

1. This Repair Kit Including The Following Devices

No.	Name	Quantity	Image	Remark
1	IC111 & IC112	2PCS	IC111 IC112 0801	
2	AT24C02	5PCS	11 12 1 2 1 2 1 2 2 3 0 08/09 4 7 8 5	
3	74HC541	1PC	TAIRESATU AK 948 SA Un NO 4236	
4	IC111&IC112 IC removing tool	1PC		
5	2. Crystal oscillator	1PC		

3. Disassemble TACHO Universal Hand-Held Device

A. Remove the 8 screws, open the up cover, unplug the keyboard cable connector, and then remove the up cover as shown in the figure.







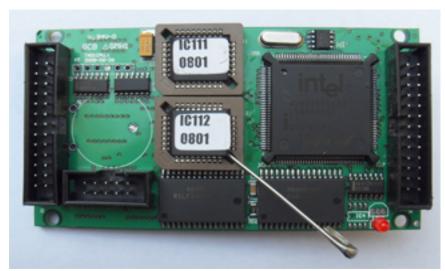
B. Remove the CPU BOARD as shown in the figure.

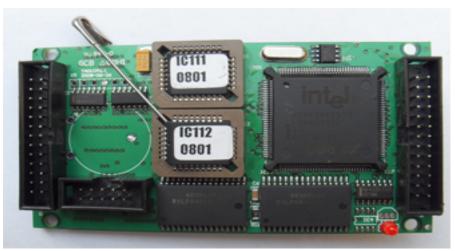


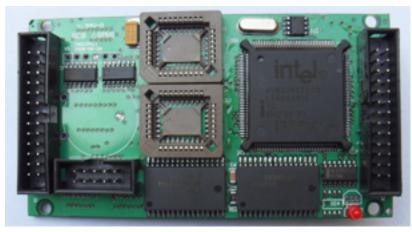


C. Remove IC111 and IC112 as shown in the figure.









D. Remove AT24C02 as shown in the figure.





E. Remove Crystal oscillators as shown in the figure.





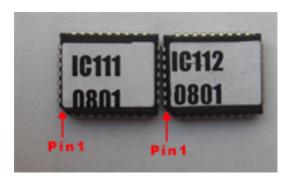


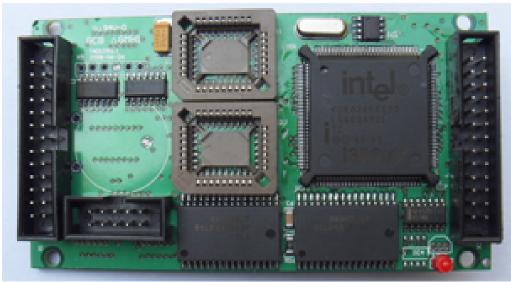
F. Remove 74HC541 and LCD as shown in the figure.





G. Install IC111 and IC112. Make sure the install direction is correct. See the figure.







H. Install AT20C02. Make sure the install direction is correct. See the figure.







I. Install Crystal oscillator. See the figure.







J. Install 74HC541, then the LCD. See the figure.



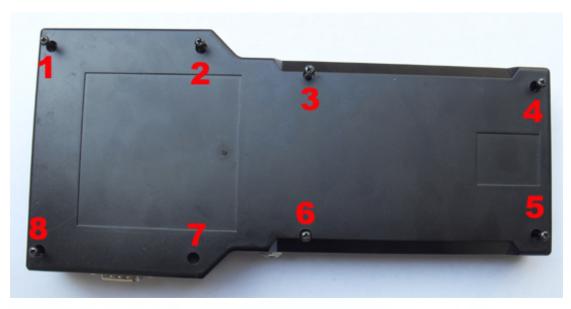




K. Install CPU BOARD. Make sure install it in correct direction. See the figure.



L. Install the up cover and then the 8 screws. See the figure.







4. Trouble Shooting:

Trouble	Solution	Remark
Screen display:	Replace IC111 and	
Diga updaten	IC112	
Screen display: RESETE	Replace IC111 and	
	IC112	
No display after powered on	Replace IC111 and	
	IC112	
No vehicle list, screen	Replace IC111 and	
display black strip	IC112	
Frequently Halting	Replace IC111 and	
	IC112	
Screen display both the	Replace AT24C02 first.	
following:	If the trouble cannot be	
"update handheld"	solved, then replace	
"???SYNC???"	crystal oscillator	
The machine cannot read	Replace 74HC541。	
EEPROM		

5. Cautions:

- A. Please use the special tool when removing or installing 74HC541 and Crystal oscillator.
- B. Remove IC111 and IC112 carefully by using the following tool.



