# KP25&27 Rectification Explanation Document Applicable Models: KP25A, KP25X, KP27A, KP27X

**Document Type:** Instruction Manual

Version: V1.0

#### 1. Rectification Background

#### **1.1 Issue Overview**

• We have identified certain deficiencies in the current product, where the AIS signals transmitted by the device fail to display the MMSI code when received by MarineTraffic base stations. These issues negatively impact user experience and require immediate corrective actions to ensure product quality and meet customer expectations.

# **2.Detailed Operating Steps**

#### 2.1 Preparation of Tools

Tools/Materials Preparat	tion Instructions
Screwdriver	
Soldering Iron	Temperature:320~380°C
Safety Goggles	

## **Tools Illustration Guide**

- Screwdriver

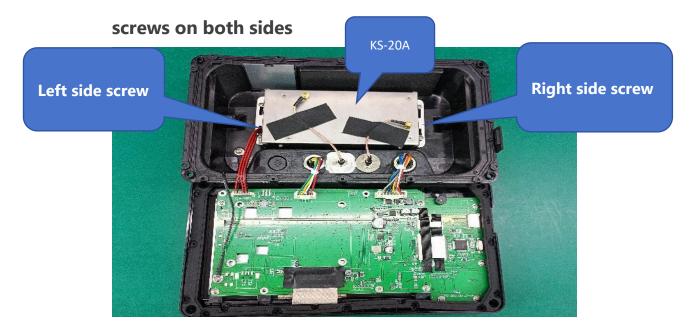




- 2. Implementation Steps for Modification
- 2.1 Remove the rear case screws using a screwdriver



# 2.2 Locate the KS-20A shielding metal case and remove the

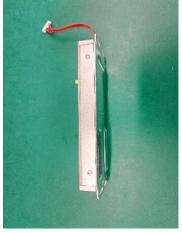


2.3. Use a screwdriver to remove the screws on both the top and bottom sides of the shielding metal cover.





**Top Screws** 



**Bottom Screws** 

# **2.4.** Use a screwdriver to remove the internal plastic screws.

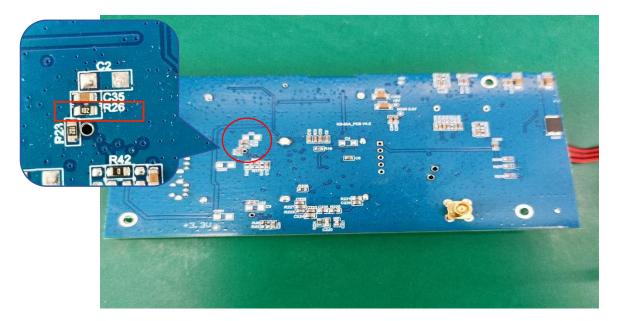
Note: The plastic screws are secured with adhesive and may be difficult to disassemble.



## 2.5. Flip the motherboard to the back side, use a soldering iron

# to heat and remove resistor R26 to complete the modification.

(In special cases where a soldering iron is unavailable, diagonal cutters may be used to clip off the resistor. Avoid damaging other components during the operation.)



2.6 Place the motherboard back into the shielding metal casing, fasten the plastic screws, secure the shielding metal casing with screws, reinstall it into the main unit, and tighten the screws on the outer casing to complete the operation.



#### 2.7 Test Results

After connecting the device to the antenna and waiting for a while, access the MarineTraffic website and search for the device's own MMSI code. If the device's own MMSI is found, the rectification is successful this time.

France Ukraine Kazakhistan Mongolia	View on live map	Where is the ship? Fishing ONWA 2108 is currently located in the South China (reported 11 minutes ago) What kind of ship is this? ONWA 2108 (MMSI: 412552108) is a Fishing and is sailing under the flag of China. Her length overall (LOA) is 29 meters and her width is 17 meters.			
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Past track	Route forecast	Flag	China	Speed	0 kn
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Locked content	MMSI	412552108	True heading	331 *	
Upgrade your account to unlock this	Call sign		Rate of turn		
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		General vessel type	Fishing	Reported destination	
		Detailed vessel type	Fishing	Matched destination	-
esses	Service Status	Upgrade to unlock	Estimated time of		
arrival location Near the vessel		Port of registry	Upgrade to unlock	arrival	-
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# **3.Precautions**

#### **3.1Burn Prevention**

• The soldering iron tip can reach temperatures exceeding 300°C—do

not touch. Keep it away from power cables during operation.

• Always place the soldering iron on a stand to prevent tipping.

## 3.2Ventilation

• Solder fumes contain lead and harmful gases (e.g., rosin vapors).

Operate in a well-ventilated area or use a fume extractor.

#### **3.3Anti-Static Measures**

• Wear an anti-static wrist strap to prevent electrostatic discharge (ESD)

damage to components.