# Product Recycling Passport

**Product name:** 53-S35-64  
**Identification code(s):** 459800367041 and above  
**Total weight (in Kg):** 56.25  

## Producer/Manufacturer
- **Name company:** MKS  
- **Address:** 100 Highpower Road Rochester, NY  
- **Zip code:** 14623  
- **Country:** USA

## Recycle Info

### Special attention
- **Items:** N/A
- **Location:**

### Fluids / Gases
- **Items:** N/A
- **Location:**

### Batteries
- **Type:** 3.0V Coin Panasonic Lithium battery manufacture part number CR2032 (MKS p/n 1045038). See appendix below for removal process.  
- **Location:** used in S35 Customer Interface and Power Supply Controller PCBA Assembly (MKS p/n 1042883-001)

## Hazardous
- **Substances:** N/A  
- **Location:**

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**Title:**  
**Recycling Passport Number:**  
**Rev:**
Show locations of materials mentioned on the previous sheet.  
(Please use an illustration/drawing of the system, photos are discouraged)

Recycling Passport Revision History

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Recycling Passport Approval Signatures 
(Note: Do not include this section in the published version)

Aaron Eslinger  
October 29, 2013

Title:  
Recycling Passport Number: ___________________ Rev: ______

Copies are uncontrolled
1. Introduction

This procedure is to provide details and guidelines of how to remove electrical components that contain Lithium metal or Lithium compound from MKS S35 products for disposal according to local regulations. Lithium is found in a 3.0V Coin Panasonic Lithium battery manufacture part number CR2032 (MKS p/n 1045038), which is used in S35 Customer Interface and Power Supply Controller Assembly (MKS p/n 1042883-001).

There is a single Lithium battery that is used in S35 RF Amplifier. This battery is used to supply power to the S35 system real time clock IC when unit is left unplugged from Main supply.

The Lithium battery is soldered in place at location B1 on Customer Interface Assembly, in the S35 power supply deck. The battery can be removed by de-soldering the two leads and cutting the grey RTV with a razor knife. The location of the Lithium battery on the Customer Interface Assembly is shown in Figure 1.
Figure 1: Customer Interface and Power Supply Controller Assembly (battery location circled)
2. Process Details

1. Remove SAFETY SHIELD, AC POWER, METAL from front panel of unit to gain access to side cover hardware.

Note: This requires the use of a Torx 15 tamper proof screwdriver bit.

4 - M4 X 12, BUTTON, TORX, SCREW
2. Remove Top / Left side cover using a No 2 Phillips head screwdriver – Part 1

21 - M4 X 10 P/F SCREW
3 - M5 X 10 F/H SCREW
10 - M4 X 10 P/F SCREW
3. Remove Bottom / Right side / rear cover using a No 2 Phillips head screwdriver.

14 - M4 X 10 P/F SCREW
3 - M5 X 10 F/H SCREW
2 - M5 X 10 F/H SCREW
3. Position unit on cap tray with RF side up.

   a. Unplug 6 wires (3 red, 3 black) from Driver PCB and PA PCB.
   b. Remove P-clip with red and black wires (P300 and P301) from standoff on Driver PCB.
   c. Cut wire tie holding J1A and J2A wires to side of line filter.
   d. Remove P300, P301, J1A, J2A, J1D and J2D wires from the 3 retaining clips at the edge of the coldplate.
6. Flip unit over so that RF side is facing down.

Disconnect cables and wires to cap tray:

a. 4 connectors (J14/P14, J15/P15, J16/P16 and J17/P17)
b. 2 wires (C5+ and C5-) from capacitor
6. Flip unit over so that RF side is facing down continued.

Disconnect cables and wires to cap tray:

c. 2 wires (wire “1” and wire “4”) from buss bars
d. Pull wire “1” and wire “4” out of retaining clips on cap tray
7. Remove Cap Tray from Power supply / RF deck assembly using No 2 Phillips head screwdriver and set aside.

1 - M4 X 12 P/P SCREW

10 - M5 X 10 F/H SCREW
9. Lift off and set **Cap Tray** aside exposing power supply assembly.

**SAFTY WARNING:** It is required two people to perform this task due to heavy object.

8. Locate **Customer Interface Adapter Assembly PCB** on power supply assembly.
10. Customer Interface Adapter Assembly PCB with **Lithium Battery** installed is shown on the RIGHT.

**Lithium Battery** can be removed by de-soldering the two leads as shown and cutting the grey RTV with a razor knife.