

**September 9, 2019**

Product: Ishida Uni-7 and Uni-9H Scales and WM-Nano Wrapper

Issue: Peel Sensor Changes and Uni-7 PK-260B CPU Board



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## Background

Due to discontinued components, Ishida has changed the Uni-7, Uni-9H, and WM-Nano peel sensors and harnesses. The Uni-7 CPU board has also been updated from version PK-260A to PK-260B due to discontinued components and may be affected by the peel sensor.

## Peel Sensor Changes

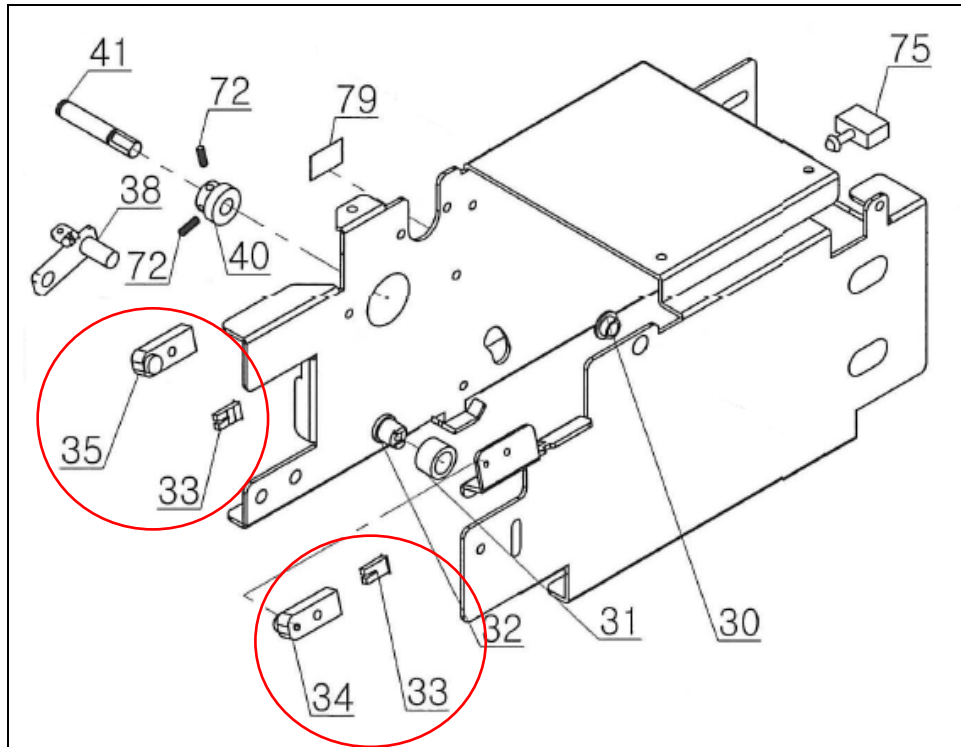
Beginning with production in January 2016 (serial number 100237828), the peel sensors and harness were changed. The old and new sensors and harness are not compatible.

The old-style sensors are still in stock at Rice Lake as of August 2019. But when they are no longer available the old-style sensors and harness must be replaced with the new-style.

The peel sensors should always be recalibrated and checked after replacement. The peel sensor adjustment procedure remains the same.

Dwg. No.	Old Part No. and Specification	Description	New Part No. and Specification
33	158582 (orange connector)	Peel sensor harness C4*	193673 (white connector)
34	87535 KB1242-AA22LF (black / orange conn.)	Peel sensor, receiver (right)	193674 KB1242-AA23LF (black / black conn.)
35	87534 KB1242-AA12LF (grey / orange conn.)	Peel sensor, transmitter (left)	193675 KB1242-AA14LF (grey / white conn.)

\* The Uni-9H peel sensor harness C5 (p/n 194852) is compatible with both old-style and new-style sensors.



### **Peel Sensors, Static Electricity, and PK-260B CPU Board**

It has been determined that the revised Uni-7 CPU board PK-260B components that operate the peel sensors can be affected by excessive static electricity. The symptoms are either no response from the peel sensors or the sensor values are too low. Two different countermeasures have been enacted to address this.

1. Addition of a ground wire
  - p/n 194853, for s/n 100171921 to 100312303
2. A separate harness for the left-side peel sensor (transmitter)
  - p/n 195857, new-style white connector, for s/n 100237828 to 100422688
  - p/n 195858, old-style orange connector for s/n 100171921 to 100237827

If the peel sensors are not working correctly the PK-260B CPU board may have been damaged. Fortunately, installing the separate harness for the left-side peel sensor – which uses a different connector on the CPU board – should restore the peel sensor operation.

The ground wire and peel sensor harness update should be performed at the next scheduled visit.

#### Ground Wire Addition

From serial number 100312304 (January 2018), a ground wire was added between the print head frame and the main scale chassis on Uni-7 scales and the WM-Nano Uni-7 controller. For machines from 100171921 to 100312303 the 6-inch ground wire (p/n 194853) should be added.

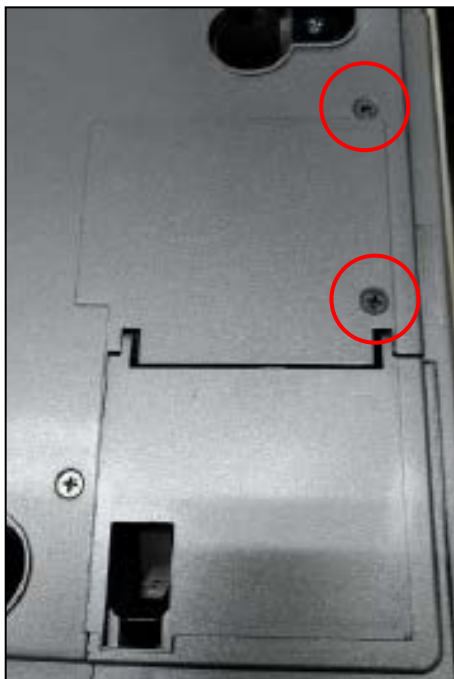
When servicing a Uni-7 scale or the WM-Nano Uni-7 controller it is critical the ground wire be reconnected as illustrated in the steps below to ensure proper grounding.

When replacing a PK-260A CPU board with a PK-260B board the ground wire must be installed by the steps below.

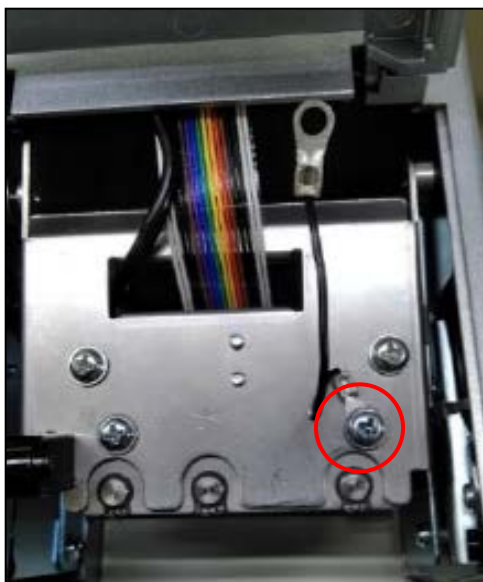
Note that the ground wire is not required for the original PK-260A.

Install the ground wire by the following steps.

1. Remove two screws from the top cover of the Uni-7.



2. Secure one end of the ground wire (p/n 194853) at the right-side screw on the print head bracket.



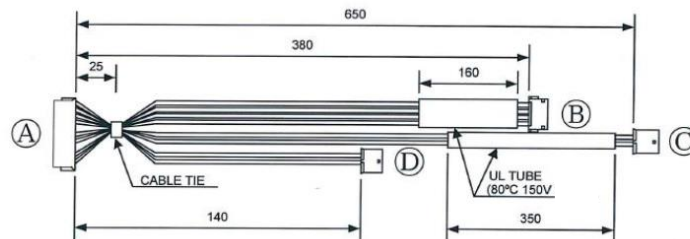
3. Slide the other end of the ground wire under the top cover and secure at the front screw.
4. Reinstall the second screw removed from the top cover.
5. Confirm the print head alignment by printing test labels. Adjust the alignment as needed.



Peel Sensor Harness Changes

From serial number 100422689 (June 2019), the shared peel and label gap sensor harness has been modified. The left-side peel sensor (transmitter) connects to different pins on the PK-260B CPU board.

Peel and Label Gap Sensor Harness



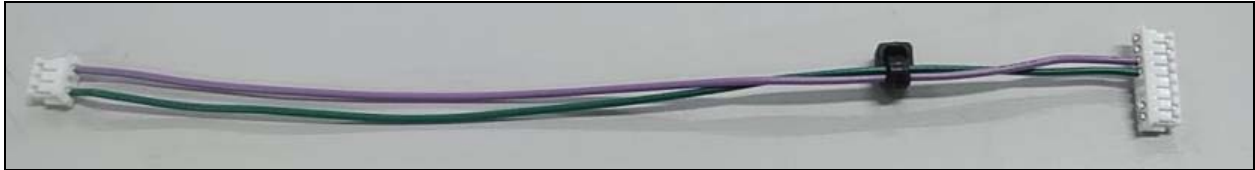
(A)		(B)	(C)	(D)
1	BLACK		1	
2	NC			
3	VIOLET			1
4	GRAY		3	
5	GREEN			3
6	BROWN	1		
7	RED	2		
8	ORANGE	3		
9	YELLOW	4		
10	NC			

Original Harness

(A)		(B)	(C)	(D)
1	BLACK		1	
2	GREEN			3
3	VIOLET			1
4	GRAY		3	
5	NC			
6	BROWN	1		
7	RED	2		
8	ORANGE	3		
9	YELLOW	4		
10	NC			

Modified Harness

To facilitate field updates, a separate harness is available to isolate the left-side peel sensor (transmitter) by connecting to a different socket on the PK-260B CPU board. The steps to switch the left-side peel sensor connection are listed below.



Left-Side Peel Sensor Harness C2, New-Style White Connector  
p/n 195857 for Uni-7 s/n 100237828 to 100422688



Left-Side Peel Sensor Harness C2, Old-Style Orange Connector  
p/n 195858 for Uni-7 s/n 100171921 to 100237827

Install the separate Uni-7 left side peel sensor harness by the following steps.

1. Remove the upper case.
2. Disconnect the peel sensor connector.

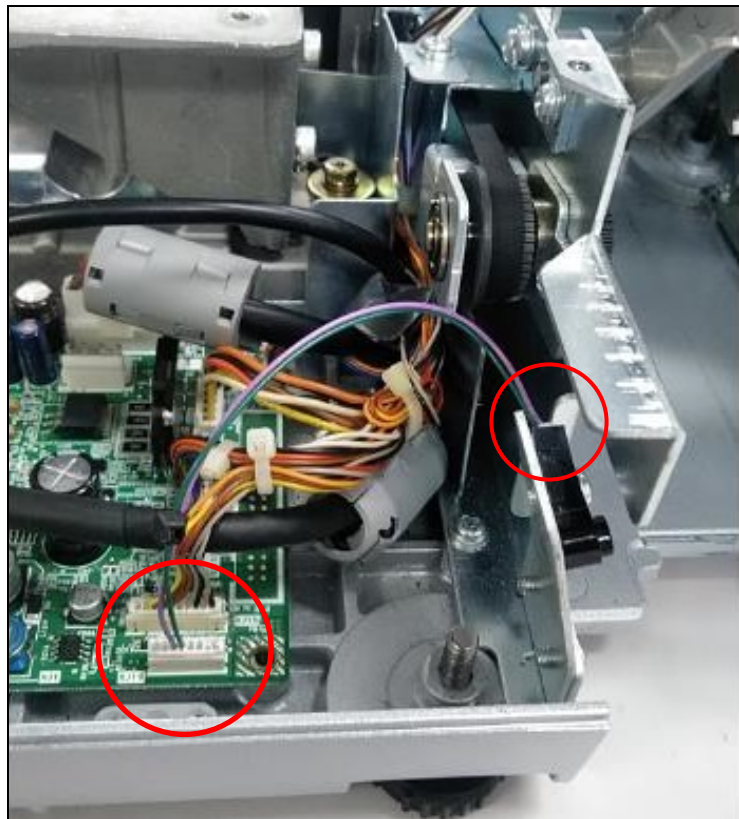




3. Cover the old harness connector with insulating electrical tape.



4. Connect the new peel sensor harness to the sensor and the PK-260B CPU connector XJ19.
  - p/n 195857 for s/n 100237828 to 100422688
  - p/n 195858 for s/n 100171921 to 100237827
5. Secure the original peel sensor connector with the other harnesses.
6. Check and calibrate peel sensors as needed.



## Reference

- For details to remove the Uni-7 upper case, refer to the Service Manual chapter 5. Machine Disassembly.



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230 W. Coleman St. • Rice Lake, WI 54868 • USA  
U.S. 800-472-6703 • Canada/Mexico 800-321-6703 • International 715-234-9171 • Europe +31 (0)26 472 1319

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