



INSTALLATION MANUAL

SIGN BACK LIGHT LED BOARD REPLACEMENT KITS

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REVISION HISTORY

Revision	Date	Description	ECO
Original	05/2017	Trapezoidal LED board replacing current lighting in toppers	ECO 1031137

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Distributor's sole and exclusive remedy in the event of defect is expressly limited to the replacement or correction of such defective parts by manufacturer at its election and sole expense, except there shall be no obligation to replace or repair items which, by their nature, are expendable.

These terms and conditions shall be governed by and construed in accordance with the provisions of the Uniform Commercial Code as adopted by the State of Mississippi.

For detailed warranty information by unit, Software End-User Agreement, access to ADA compliance statement, ANSI statement of compliance, ISO 9001 compliance certificate, PCI v3 EPP certifications, card reader TQM certifications, EMV certifications and more, please visit www.tritonatm.com.

PURPOSE

This guide covers the steps for replacing your current topper back light with Triton's new trapezoidal LED board. These instructions include a list of all tools necessary for replacement, and all procedures involved.

SCOPE

This manual applies to all Triton-trained service personnel involved in installing, converting, or upgrading hardware on Triton ATMs nationwide and abroad.

APPLICATION

This installation guide provides information, methods, and easy-to-follow instructions for installation of the Topper Back Light LED Upgrade Kits. Kits should only be used with applicable models.

UNIT CONFIGURATIONS

Due to production, refurbishment, update, or repair differences, units may vary in hardware, cable color and length, wire routing, etc. Field units may vary in appearance from examples given in these instructions. Instructions are representative of the upgrade for each type of unit.

TOOLS

The use of magnetic tools may be helpful in the removal and replacement of signage and accompanying hardware.

KITS

Due to the versatility of the kits, there may be parts that are not used in your particular unit.

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SECTION 1

LED BOARD REPLACEMENT KIT FOR ARGO / RL2 / RL5 FLUORESCENT OR LED HIGH TOPPER

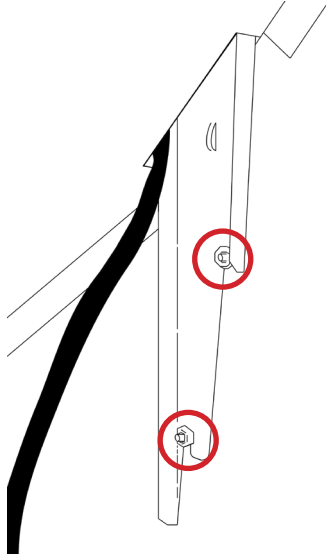


Required Tools		No. 2 phillips screwdriver; 1 ¹ / ₂ nut driver; snips
Kit 06100-00143		LED Board Replacement Kit for Fluorescent or LED High Topper
Part #	Description	Qty
1	ARGO trapezoidal sign light	2
2	LED light power cable	1
3	Power jumper cable	1
4	6" TY wraps	2
5	Tie wrap post	2
6	Alcohol wipe pad	1
7	Kit installation manuals & software instruction sheet	1

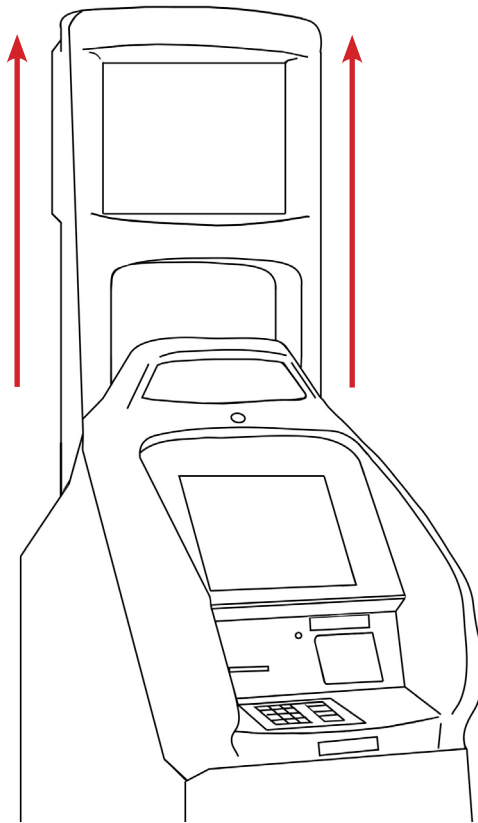


LED BOARD REPLACEMENT KIT FOR ARGO AND RL2 HIGH TOPPER

1. Perform a proper shutdown via *Management Functions > System Parameters > Shut Down the Terminal*.
2. Unlock and open the control panel.
3. Turn power switch on the power supply to the off (O) position.
4. Unplug topper power cable from power supply.
5. Using a $1\frac{1}{32}$ nut driver, remove the four nuts that secure the topper mounting brackets to cabinet. Retain for reinstallation.

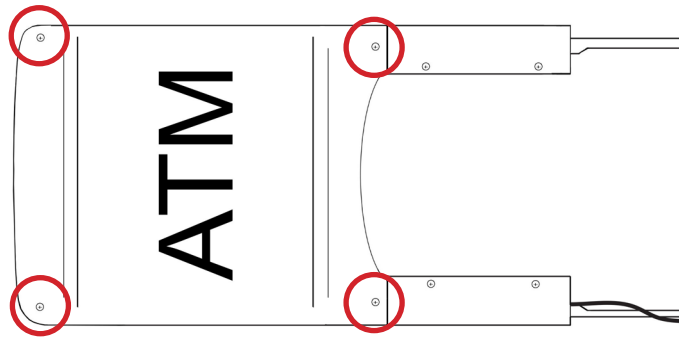


6. Grasp topper on each side, and lift high topper straight up until mounting brackets and topper power cord are clear of the cabinet.

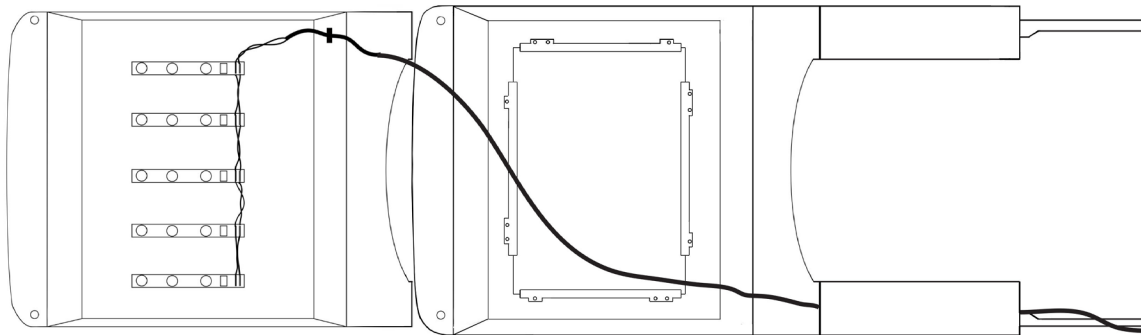


7. Lay topper face down on a flat surface.

8. Remove four screws to remove the upper portion of the back panel. Retain for reinstallation.

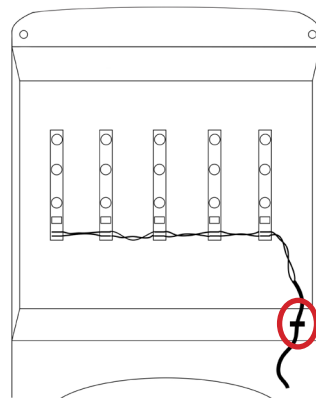


9. Remove top portion of back panel. Route LED power cable up through leg of high topper until back panel can be completely separated from topper assembly.



10. Lay back panel flat so that LED strips and power cable face up.

11. Using snips or other cutting tool, clip the TY wrap that secures LED power cable to back panel.



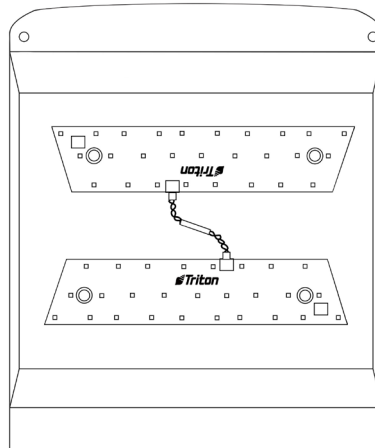
12. Pry LED strips free, then discard LED strips and LED power cable.

13. Clean back panel surface with alcohol prep pads from upgrade kit.

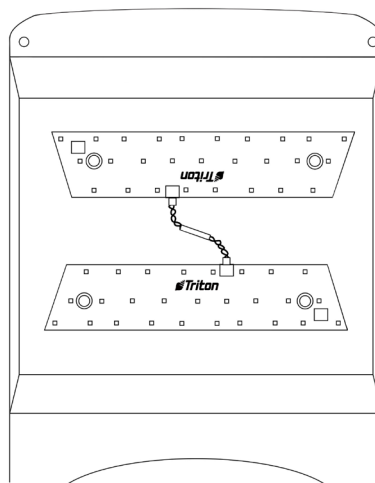
Caution

Kit 06100-00143 contains two trapezoidal LED boards. Ensure proper placement before removing protective backing. Boards are self-adhesive, and technicians should not attempt to remove LED board after adhering to back panel. Attempts to remove board could cause damage to LED board.

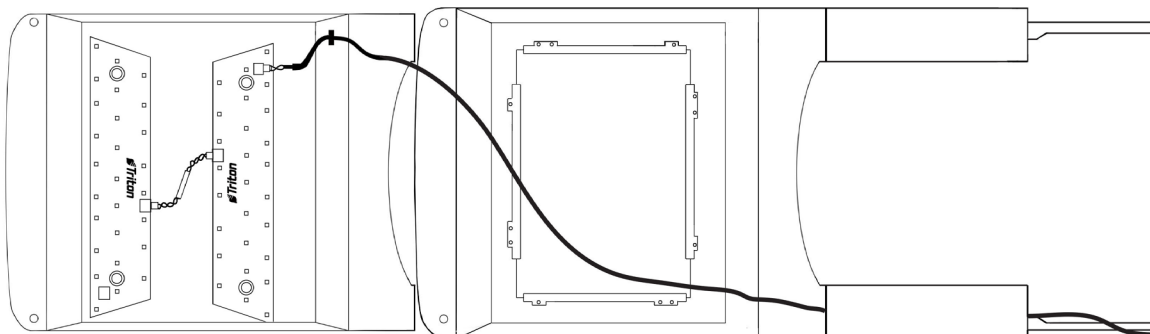
14. Remove both LED boards and jumper cable from upgrade kit. Ensure proper placement before removing protective backing. Place boards on topper back panel, ensuring boards are close enough for jumper cable to reach receptacle on both boards.



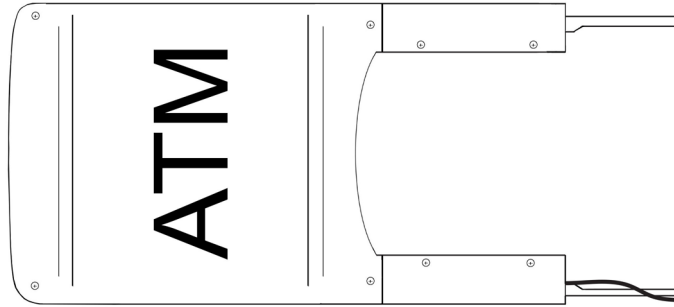
15. Place LED board in desired location, ensuring enough space is left for second LED board. Press firmly into place for ten seconds to adhere.
16. Plug one end of jumper cable into bottom receptacle of top LED board. Plug other end of jumper into the top receptacle on the bottom LED board.



17. Remove LED power cable from upgrade kit.
18. Plug the smaller connector of power cable into the bottom receptacle on the bottom LED board.
19. Using TY wrap, secure the LED power cable to the loop on back panel.
20. Route LED power cord down through the leg of topper assembly.



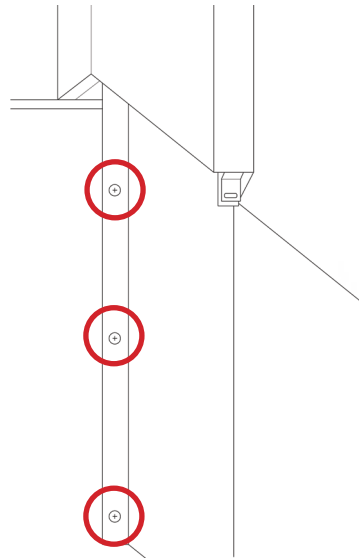
21. Place back panel onto topper assembly and reattach using the four screws removed in step 8.



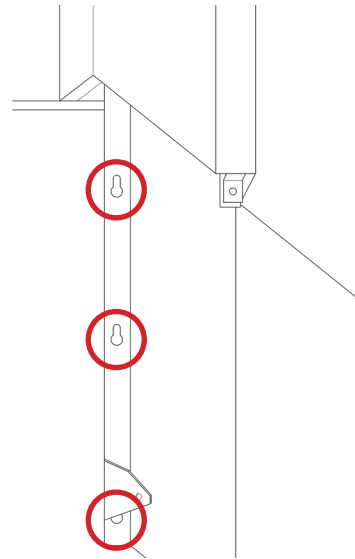
22. Reinstall topper assembly by sliding mounting brackets down through holes in cabinets. Notches in the mounting bracket should seat onto screw studs on the inside of the cabinet.
23. Using TY wrap, secure the LED power cable to the loop on mounting bracket.
24. Secure topper assembly in place by reinstalling four nuts removed in step 5.
25. Plug LED power cable into empty receptacle on the power supply.
26. Turn the power switch on the power supply to the on (I) position.

LED BOARD REPLACEMENT KIT FOR RL5 FLUORESCENT HIGH TOPPER

1. Perform a proper shutdown via *Management Functions > System Parameters > Shut Down the Terminal*.
2. Unlock and open the control panel.
3. Turn power switch on the power supply to the off (O) position.
4. Unplug topper power cable from power supply.
5. Using a No. 2 phillips screwdriver, remove the six screws that secure the topper mounting brackets to cabinet. Retain for reinstallation. If topper has slotted mounting holes, loosen six mounting screws and lift slightly to remove topper assembly.

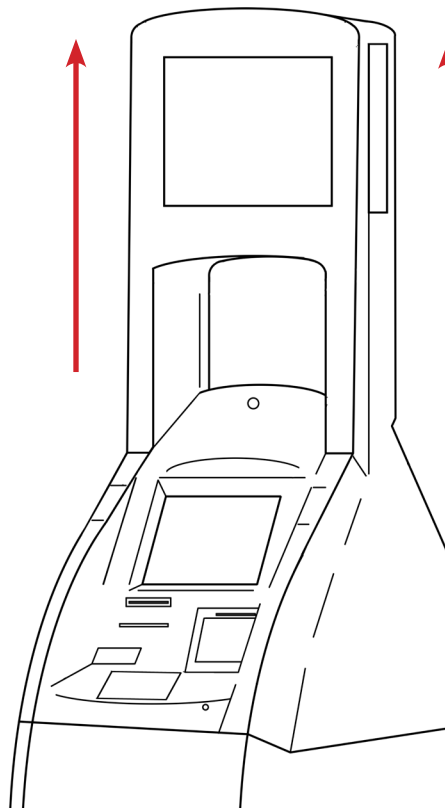


Remove screws from topper mounting bracket.

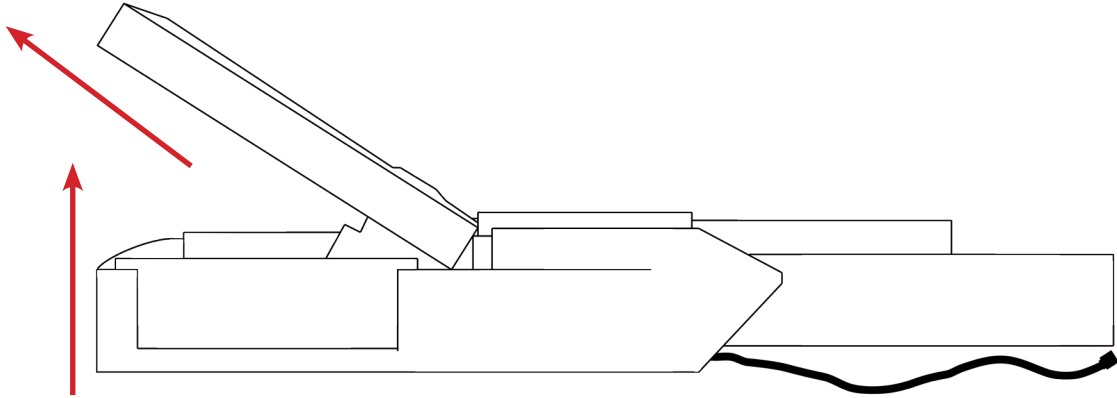


Loosen screws on topper mounting bracket and lift.

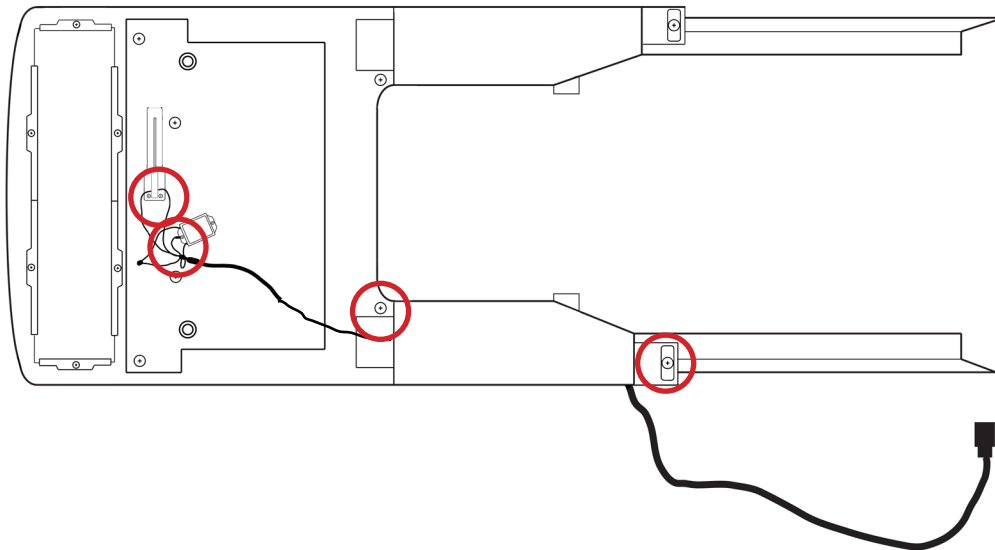
6. Grasp topper on each side, and lift high topper straight up until mounting brackets and topper power cord are clear of the cabinet.



7. Lay topper face up on a flat surface.
8. Unlock and open top panel, then lift free of topper assembly.



9. Remove two screws from left leg bracket cover and remove. Retain screws and cover for reinstallation.
10. Using snips or other cutting tool, clip any TY wrap that secures the power cable to back panel. Free power cord from leg.
11. Remove four screws holding the bulb and ballast fixtures in place, then discard fixtures and power cord.

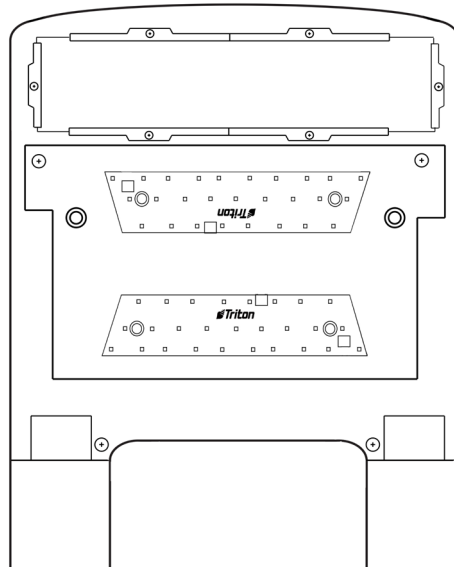


12. Clean back panel surface with alcohol prep pads from upgrade kit.

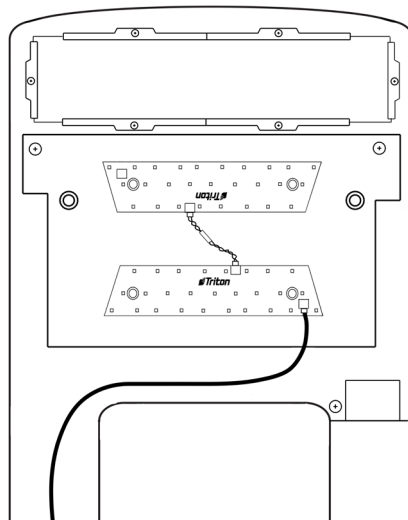
Caution

Kit 06100-00143 contains two trapezoidal LED boards. Ensure proper placement before removing protective backing. Boards are self-adhesive, and technicians should not attempt to remove LED board after adhering to back panel. Attempts to remove board could cause damage to LED board.

13. Remove both LED boards and jumper cable from upgrade kit. Ensure proper placement before removing protective backing. Place boards on topper back panel, ensuring boards are close enough for jumper cable to reach receptacle on both boards.



14. Once correct positioning is determined, remove protective backing and press LED boards firmly into place to adhere.
15. Plug one end of jumper cable into bottom receptacle of top LED board. Plug other end of jumper into the top receptacle on the bottom LED board.
16. Remove LED power cable from upgrade kit.
17. Plug the smaller connector of power cable into the bottom receptacle on the bottom LED board.
18. Using TY wrap, secure the LED power cable to topper assembly.
19. Route LED power cord down through the leg of topper assembly.
20. Using TY wrap, secure the LED power cable to topper assembly, if applicable.



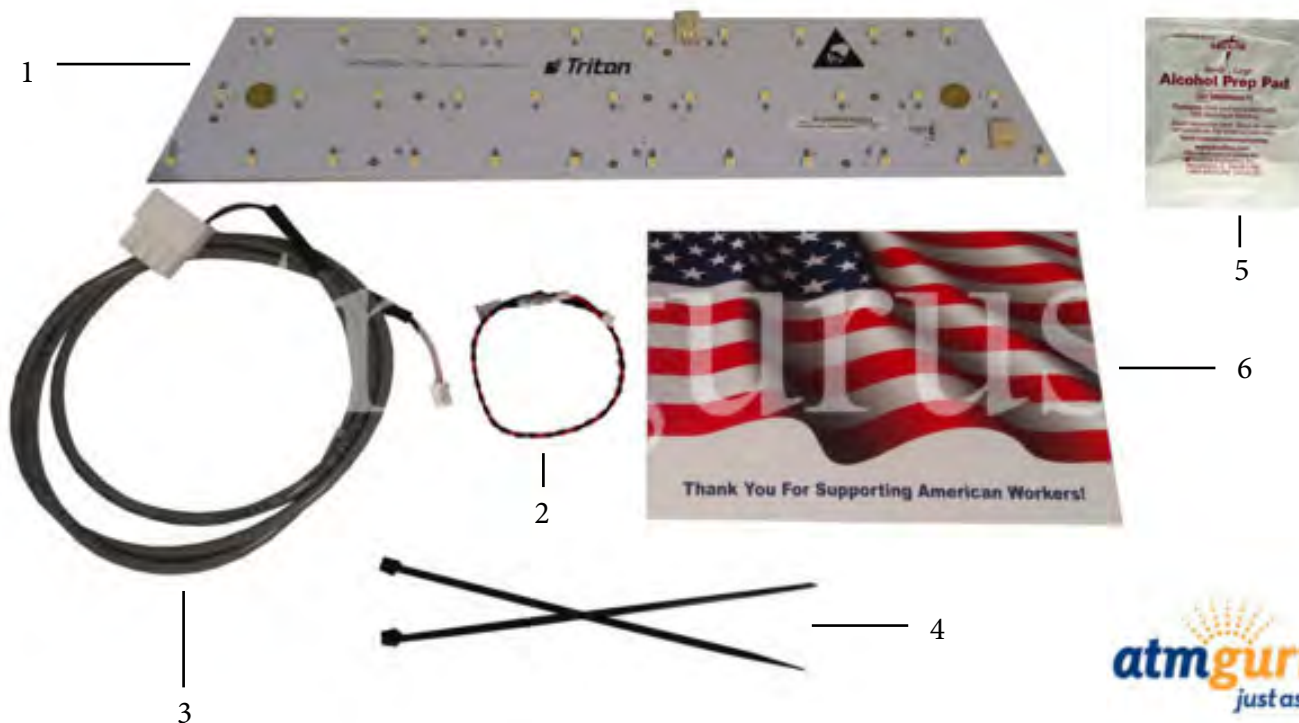
21. Place leg panel onto topper assembly and reattach using the two screws removed in step 9.
22. Place top panel onto topper assembly, then close and lock.
23. Install topper, then tighten the six screws that secure the topper mounting brackets to cabinet. If topper has slotted mounting holes, install mounting brackets onto loosened screws, then slide down firmly so that screws rest in the narrow portion of slotted mounting holes. Tighten screws.
24. Plug LED power cable into empty receptacle on the power supply.
25. Turn the power switch on the power supply to the on (I) position.

SECTION 2

LED BOARD REPLACEMENT KIT FOR ARGO / RL2 / RL5 / 9700 INTEGRATED TOPPER OR MID TOPPER WITH CONTOURED BACK

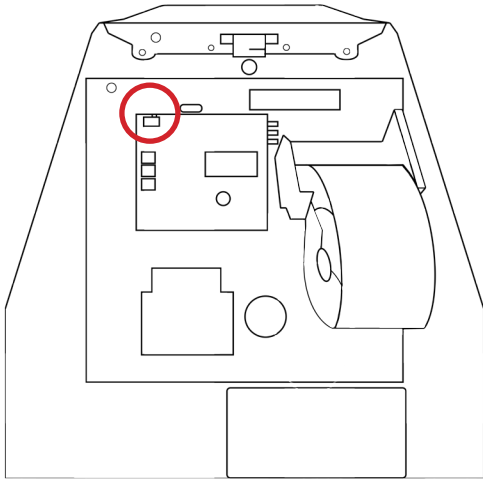


Required Tools		No. 2 phillips screwdriver; 1½ nut driver; snips
Kit 06100-00144		LED Board Replacement Kit for Integrated Topper and Mid Topper
Part #	Description	Qty
1	ARGO trapezoidal sign light	1
2	LED light power cable for integrated topper	1
3	LED power cable for mid topper	1
4	6" TY wraps	2
5	Alcohol wipe pad	1
6	Kit installation manuals & software instruction sheet	1

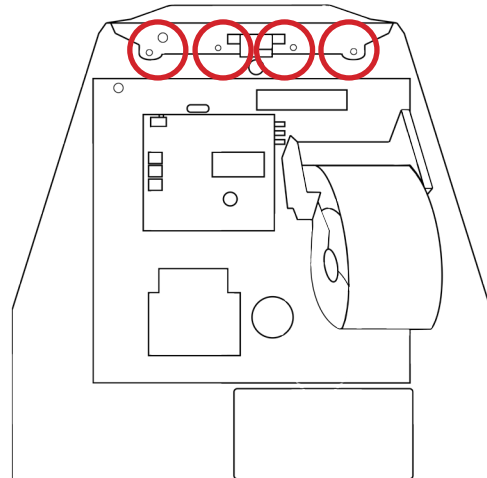


LED BOARD REPLACEMENT KIT FOR ARGO

1. Perform a proper shutdown via *Management Functions > System Parameters > Shut Down the Terminal*.
2. Unlock and open the control panel.
3. Turn power switch on the power supply to the off (O) position.
4. Unplug topper power cable from main board.
5. Using a No. 2 phillips screwdriver, remove the four screws that secure the light panel and the screw securing the display ground wire. Retain for reinstallation.

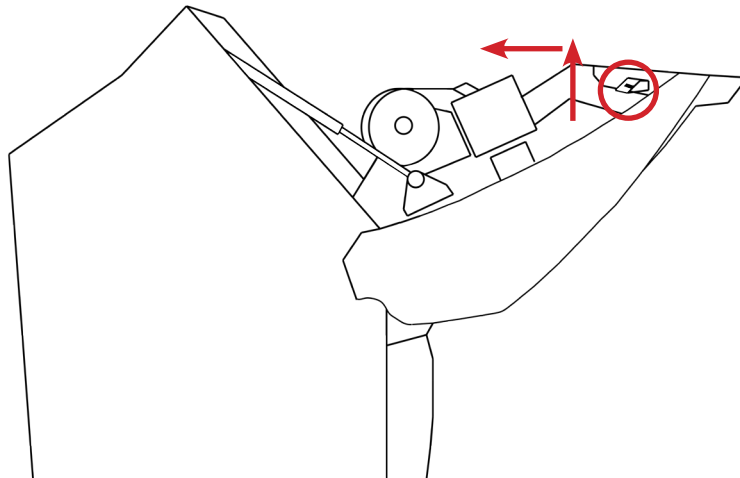


Unplug topper power cable.



Remove screws from light panel.

6. Remove the light panel by lifting up on the bottom, then sliding back toward cabinet.

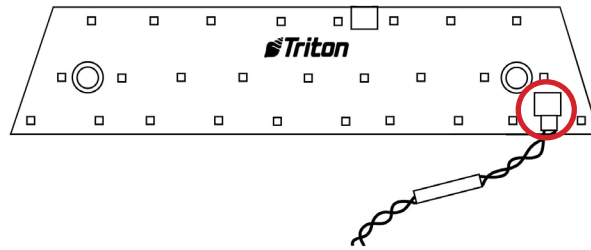


7. Lay light panel flat so that LED strips and power cable face up.
8. Using snips or other cutting tool, clip the TY wrap that secures LED power cable to light panel.
9. Pry LED strips free, then discard LED strips and LED power cable.
10. Clean back panel surface with alcohol prep pads from upgrade kit.

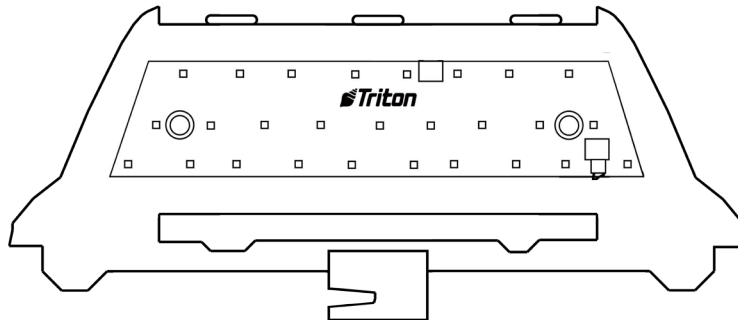
Caution

Ensure proper placement of LED board before removing protective backing. Board is self-adhesive, and technicians should not attempt to remove LED board after adhering to back panel. Attempts to remove board could cause damage to LED board.

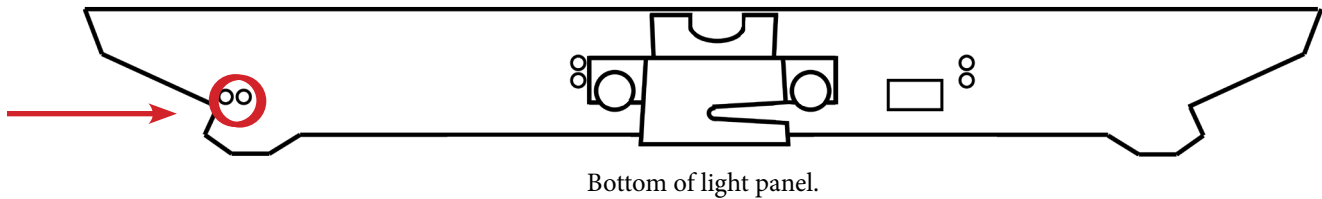
11. Remove LED board and LED power cable for integrated topper from upgrade kit.
12. Plug the smaller connector of power cable into the bottom receptacle on the bottom LED board.



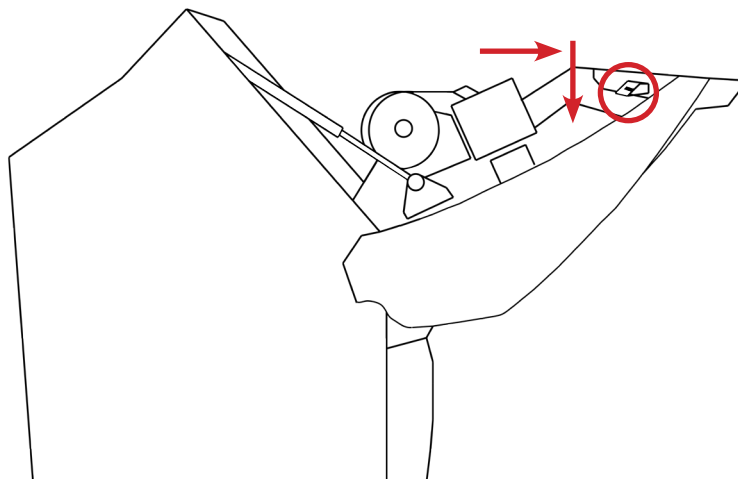
13. Remove protective backing from LED board.
14. Place LED board in center of light panel approximately 3/4 in below upper edge. Press firmly into place for ten seconds to adhere.



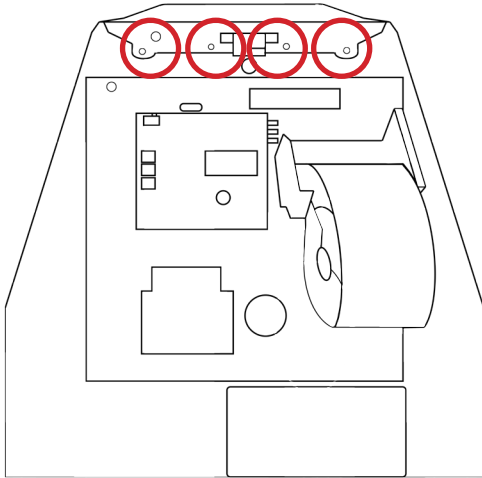
15. Secure LED power cable to light panel using TY wraps as shown below. Ensure enough length is left on the LED power cable to reach the main board.
16. Route LED cable around the edge of the light panel through a channel in the control panel plastic.



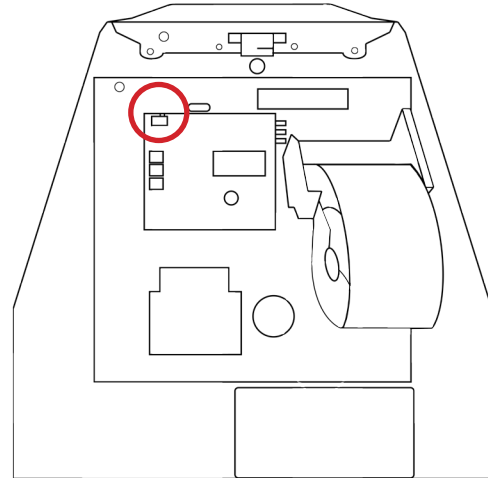
17. Reinstall light panel assembly onto control panel by holding assembly face down so that LED board is facing sign. Insert three tabs into three corresponding notches on control panel, then rotate light panel downward into place.



18. Reinstall the four screws that secure the light panel and the screw securing the display ground wire.
19. Plug LED power cable into main board.



Reinstall screws on light panel.

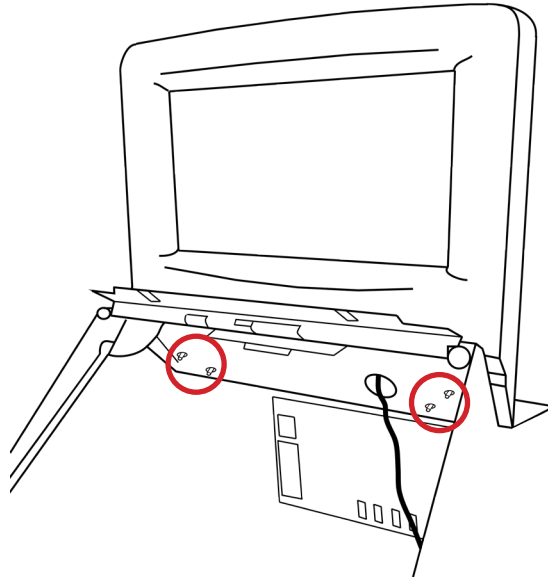


Plug in topper power cable.

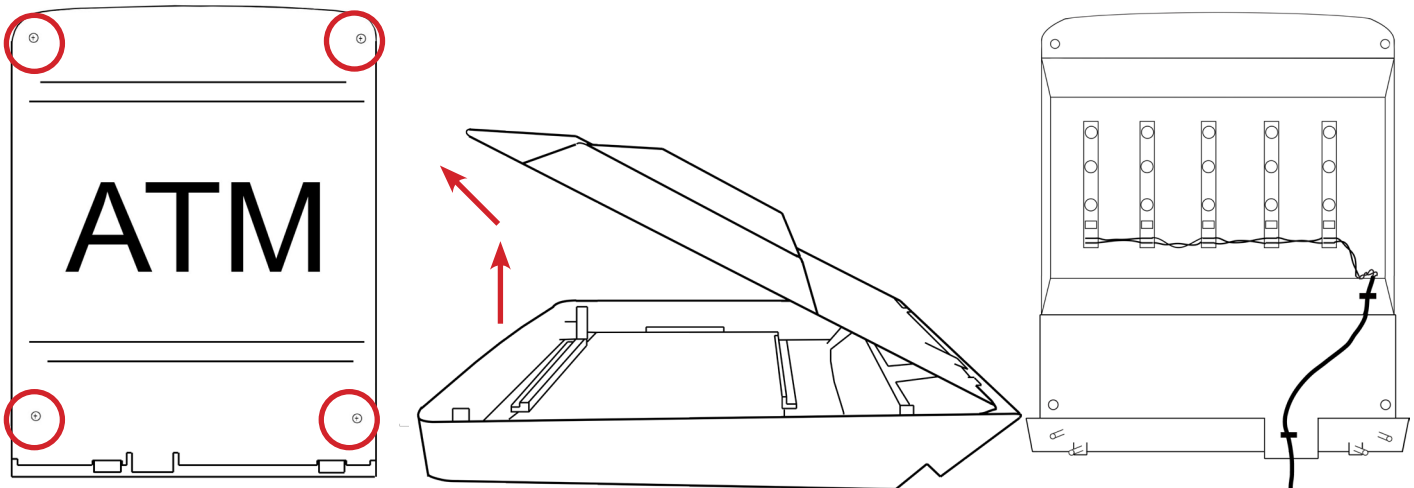
20. Turn the power switch on the power supply to the on (I) position.

LED BOARD REPLACEMENT KIT FOR MID TOPPER WITH CONTOURED BACK PANEL

1. Perform a proper shutdown via *Management Functions > System Parameters > Shut Down the Terminal*.
2. Unlock and open the control panel.
3. Turn power switch on the power supply to the off (O) position.
4. Unplug topper power cable from power supply.
5. Using a $1\frac{1}{32}$ nut driver, remove the four nuts that secure the topper to cabinet. Retain for reinstallation.



6. Grasp topper on each side, and lift topper and LED power cord clear of the cabinet.
7. Lay topper face down on a flat surface.
8. Remove four screws. Retain for reinstallation.
9. Remove back panel.
10. Lay back panel flat so that LED strips and power cable face up.

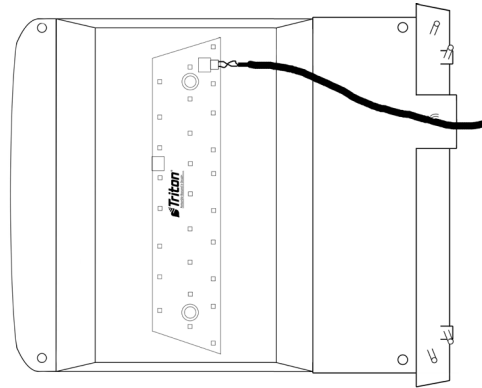


11. Using snips or other cutting tool, clip the TY wrap that secures LED power cable to back panel.
12. Pry LED strips free, then discard LED strips and LED power cable.
13. Clean back panel surface with alcohol prep pads from upgrade kit.

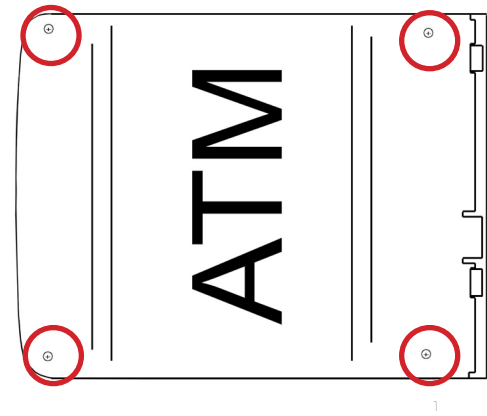
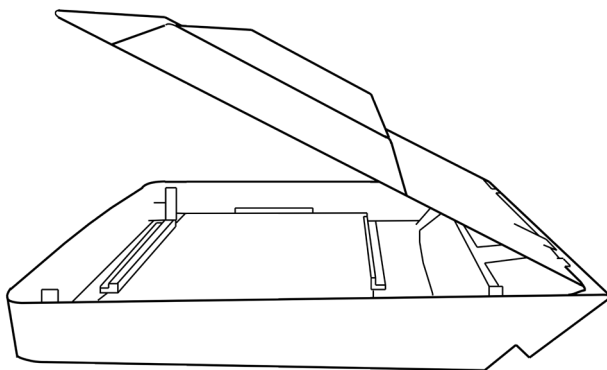
Caution

Ensure proper placement before removing protective backing. Board is self-adhesive, and technicians should not attempt to remove LED board after adhering to back panel. Attempts to remove board could cause damage to LED board.

14. Remove LED board from upgrade kit, and remove protective backing.
15. Place LED board in center of back panel. Press firmly into place for ten seconds to adhere.
16. Remove LED power cable from upgrade kit.
17. Plug the smaller connector of power cable into the bottom receptacle on the bottom LED board.



18. Using TY wrap, secure the LED power cable to the loop on back panel.
19. Reinstall back panel by inserting screws on back panel into notches on front panel at an angle as shown. Ensure LED power cord is routed through the opening
20. Rotate the back panel down until it lies snugly against front panel.
21. Attach panels using the four screws removed in step 8.



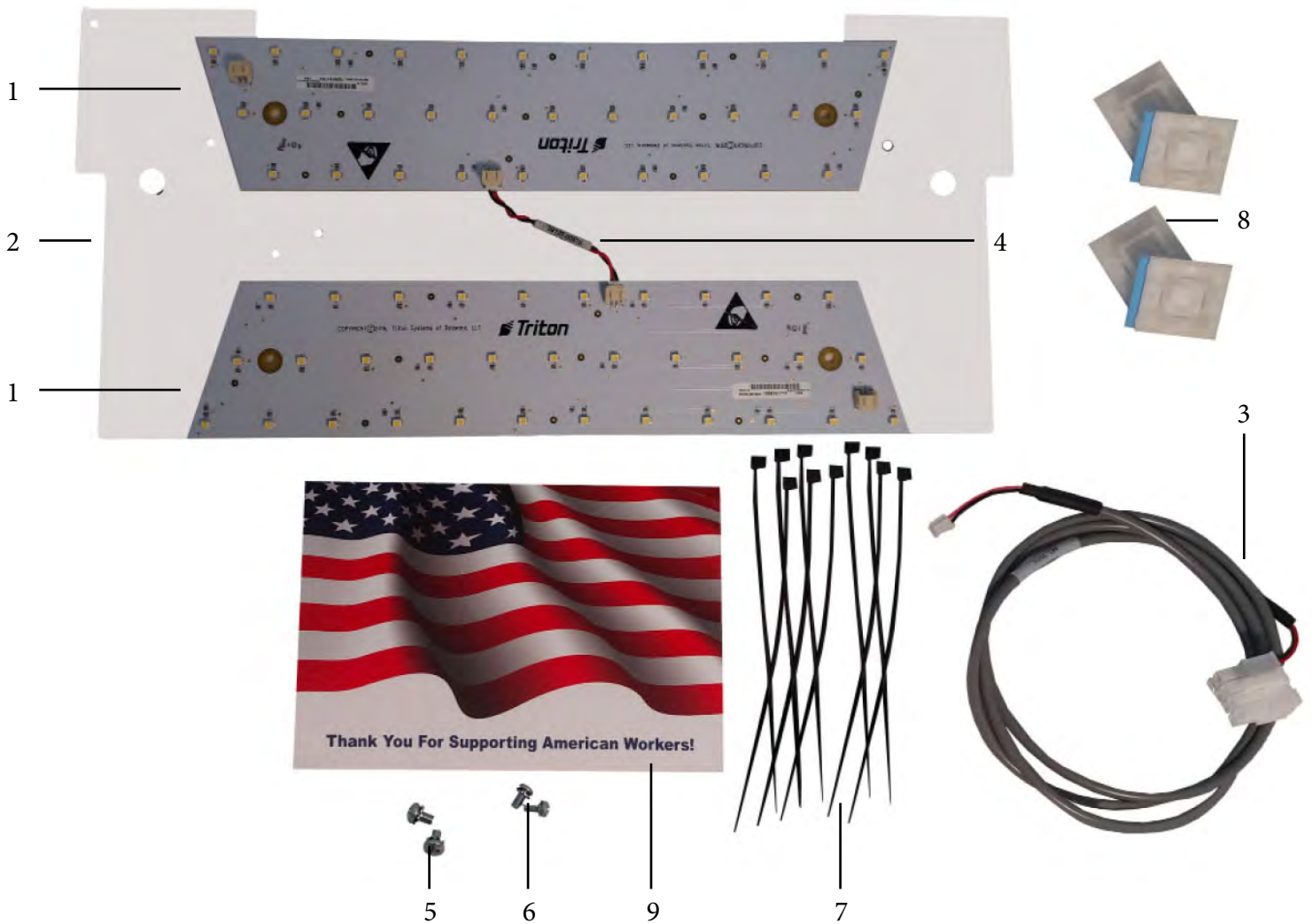
22. Install topper assembly onto ATM by inserting screw on bottom of topper assembly into the corresponding holes in top of cabinet. Ensure LED power cable is routed through round hole in cabinet.
23. Install the four nuts removed in step 5 to secure topper assembly.
24. Plug LED power cable into empty receptacle on the power supply.
25. Turn the power switch on the power supply to the on (I) position.

SECTION 3

LED BOARD REPLACEMENT KIT FOR RL5 LED HIGHTOPPER

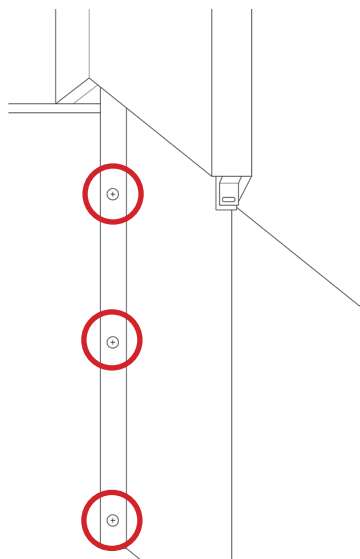


Required Tools		No. 2 phillips screwdriver; 1 ¹ / ₂ nut driver; snips
Kit 06200-00180		LED Board Replacement Kit for Direct Lighting LED High Topper
Part #	Description	Qty
1	ARGO trapezoidal sign light	2
2	Topper reflector bracket	1
3	LED power cable for high topper - 40"	1
4	Power jumper cable	1
5	Screw #6-32 1/4 Inch Pan Phil Head w/Ext Tooth Wash RoHS	2
6	Screw #4-40 1/4 Inch Pan Phil Head/Ext Tooth Wash RoHS	2
7	6" TY wraps	10
8	TY wrap post	4
9	Kit installation manuals & software instruction sheet	1

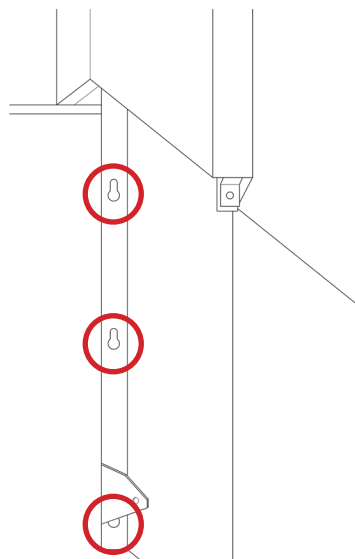


LED BOARD REPLACEMENT KIT FOR RL5 HIGH TOPPER

1. Perform a proper shutdown via *Management Functions > System Parameters > Shut Down the Terminal*.
2. Unlock and open the control panel.
3. Turn power switch on the power supply to the off (O) position.
4. Unplug topper power cable from power supply.
5. Using a No. 2 phillips screwdriver, remove the six screws that secure the topper mounting brackets to cabinet. Retain for reinstallation. If topper has slotted mounting holes, loosen six mounting screws and lift slightly to remove topper assembly.

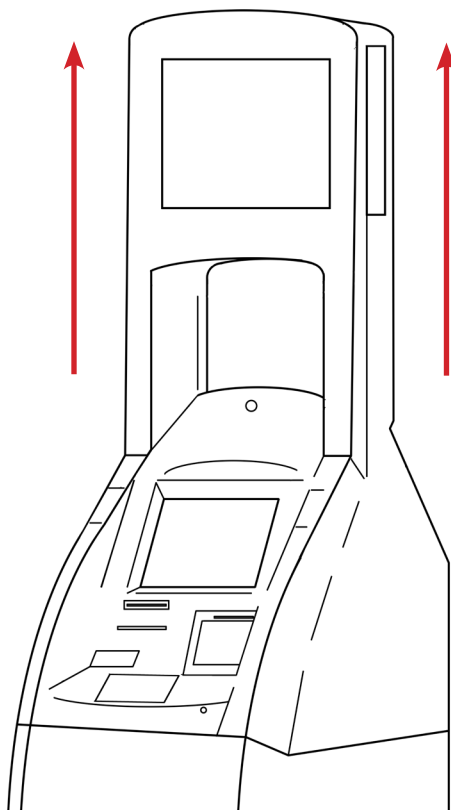


Remove screws from topper mounting bracket.

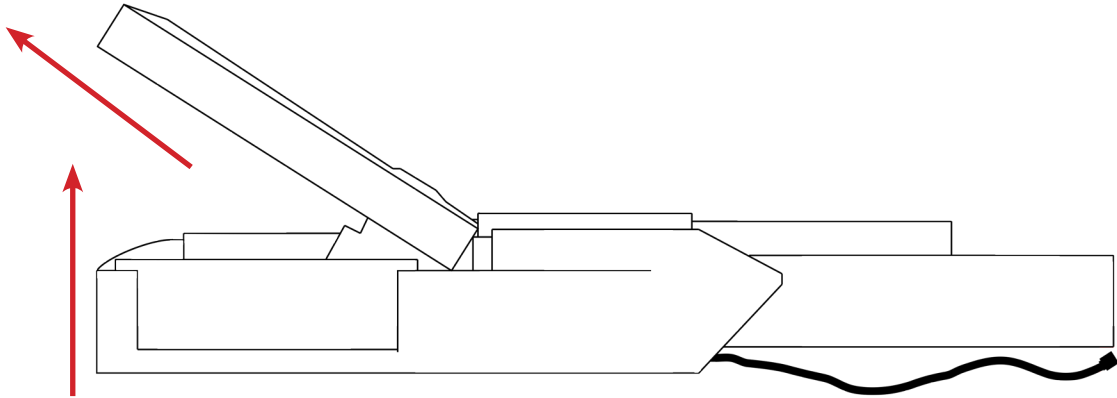


Loosen screws on topper mounting bracket and lift.

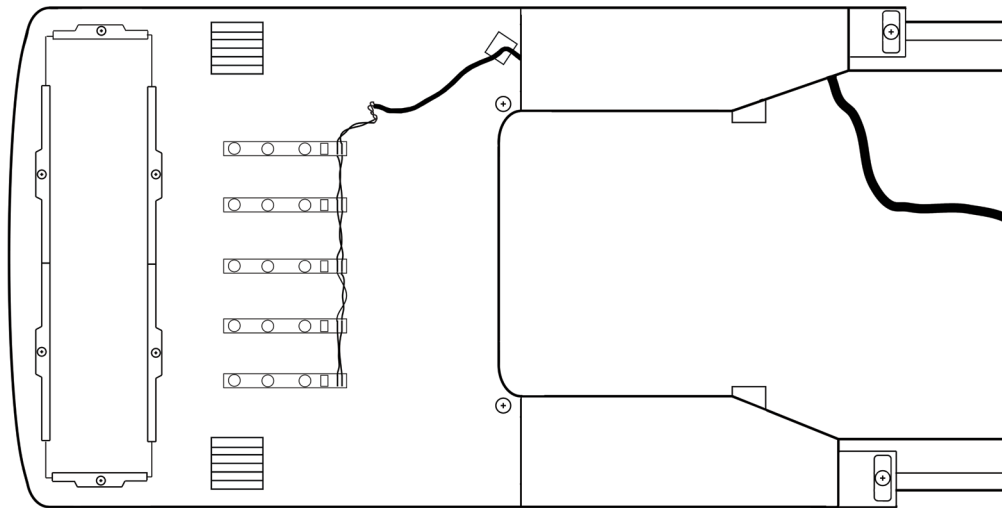
6. Grasp topper on each side, and lift high topper straight up until mounting brackets and topper power cord are clear of the cabinet.



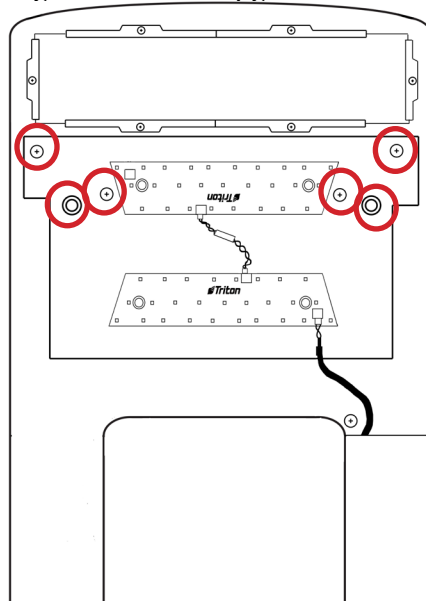
7. Lay topper face up on a flat surface.
8. Unlock and open top panel, then lift free of topper assembly.



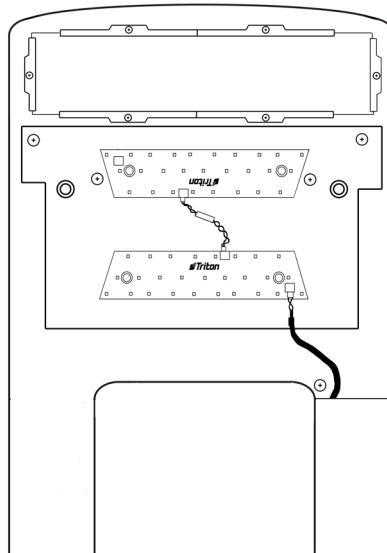
9. Using snips or other cutting tool, clip any TY wrap that secures LED power cable to back panel. Remove two screws from right leg bracket cover and remove. Retain screws and cover for reinstallation.
10. Pry LED strips free, then discard LED strips and LED power cable.



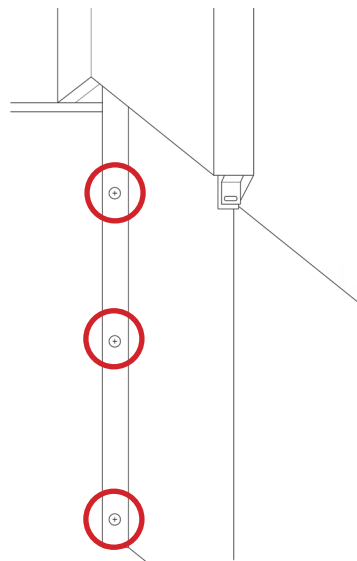
11. Remove bracket with mounted LED boards from upgrade kit.
12. Mount bracket onto round studs. Using screws from upgrade kit, secure bracket to back panel.



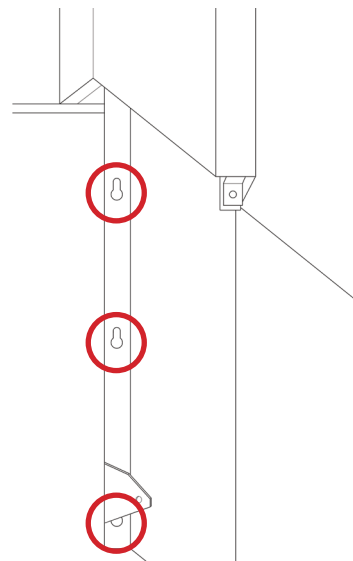
13. Route LED power cord down through the leg of topper assembly.



- 14. Using TY wraps, secure the LED power cable to topper assembly.
- 15. Place leg panel onto topper assembly and reattach using the two screws removed in step 9.
- 16. Place top panel onto topper assembly and close and lock front panel.
- 17. Reinstall topper assembly by sliding mounting brackets down through holes in cabinet. Notches in the mounting bracket should seat onto screws on the inside of the cabinet. If topper has slotted mounting holes, install mounting brackets onto loosened screws, then slide down firmly so that screws rest in the narrow portion of slotted mounting holes.
- 18. Using a No. 2 phillips screwdriver, tighten the six screws that secure the topper mounting brackets to cabinet.



Tighten screws from topper mounting bracket.



Tighten screws on topper mounting bracket and lift.

- 19. Plug LED power cable into empty receptacle on the power supply.
- 20. Turn the power switch on the power supply to the on (I) position.

SECTION 4

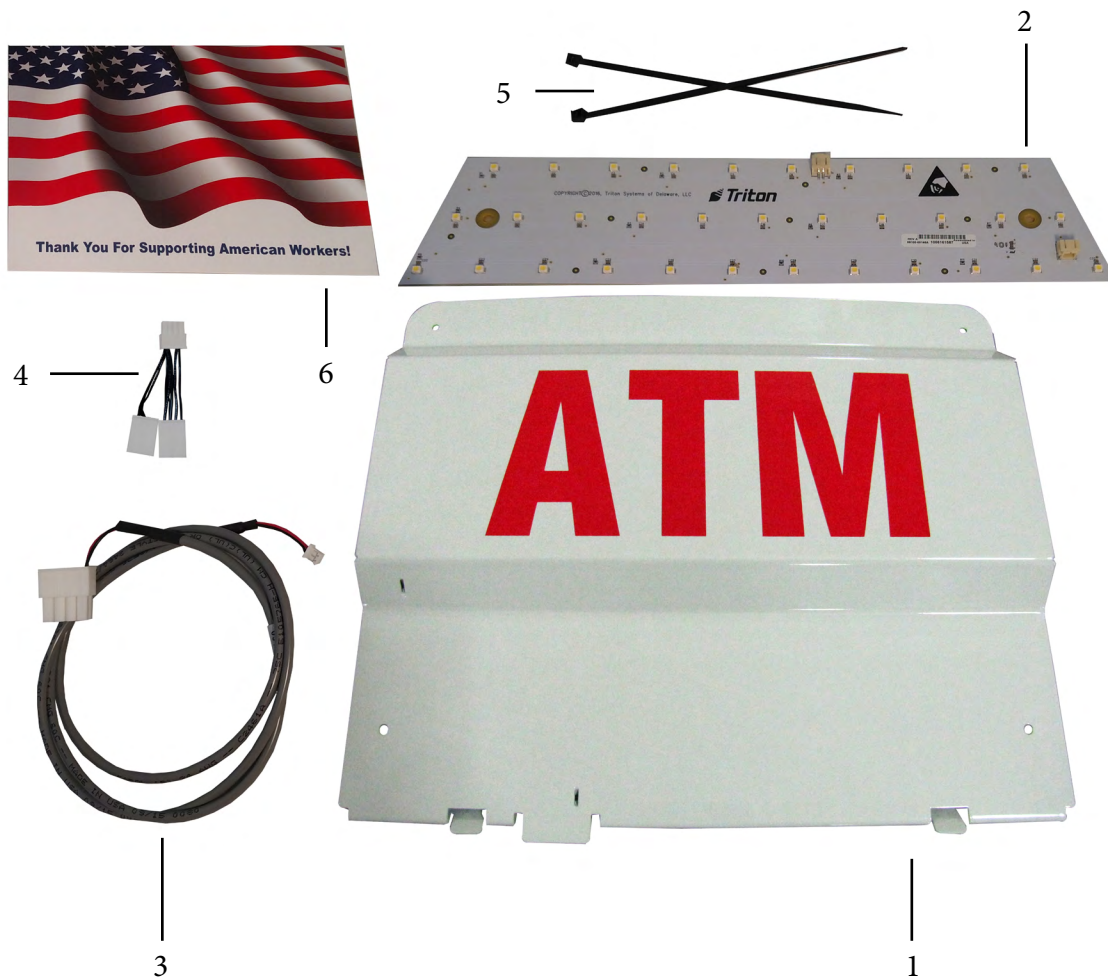
LED BOARD REPLACEMENT KIT FOR 8100 / 9100 / RL2 / RL5 WITH FLAT-BACK BRACKET



Required Tools	No. 2 phillips screwdriver; snips; 11/32 nut driver	
Kit 06200-08213	LED Board Replacement Kit	
Part #		
Description		
1	Contoured back panel	1
2	ARGO trapezoidal sign light	1
3	LED light power cable	1
4	Power extension cable	1
5	6" TY wraps	2
6	Kit installation manuals & software instruction sheet	1

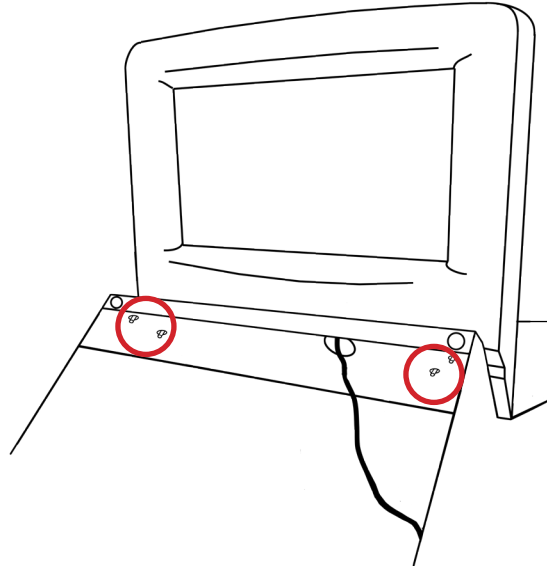
****Note****

The LED board will ship mounted onto the contoured back bracket.

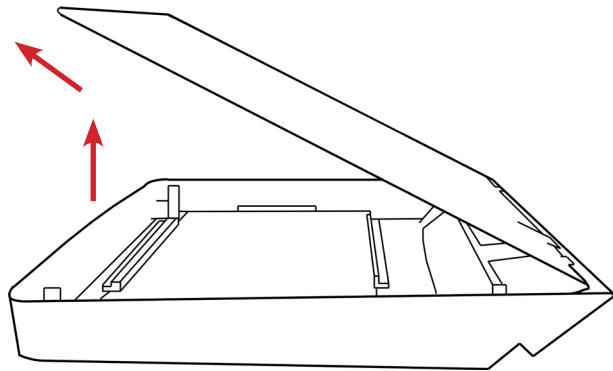
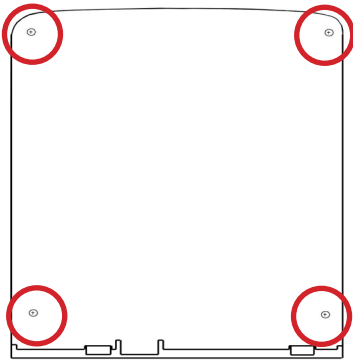


LED BOARD REPLACEMENT KIT FOR 8100/9100

1. Unlock and open the control panel.
2. Turn power switch on the power supply to the off (O) position.
3. Unplug topper power cable from power supply.
4. Using a $1\frac{1}{32}$ nut driver, remove the four nuts that secure the topper to cabinet. Retain for reinstallation.

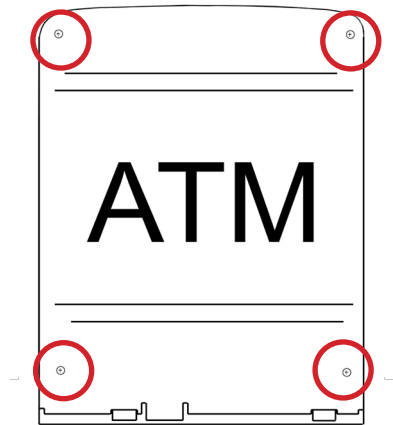
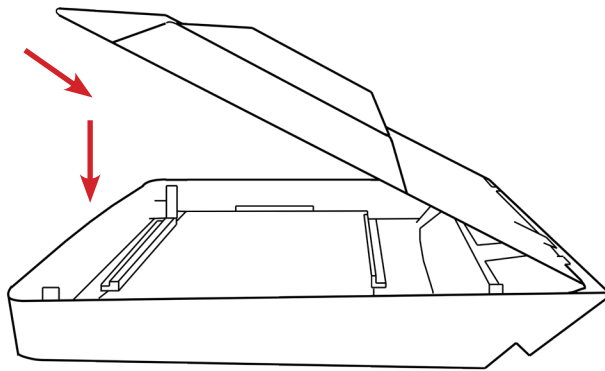


5. Grasp topper on each side, and lift topper and LED power cord clear of the cabinet.
6. Lay topper face down on a flat surface.
7. Remove four screws. Retain for reinstallation.
8. Remove back panel and discard.

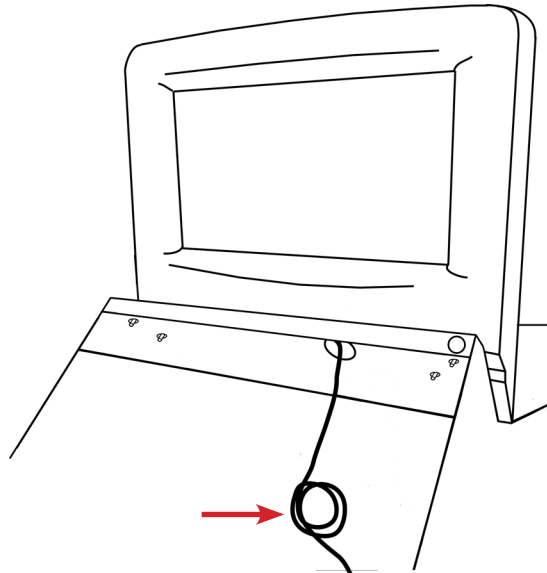


9. Remove contoured back panel and LED assembly from upgrade kit.
10. Plug the smaller connector of power cable into the bottom receptacle on the LED board.
11. Using TY wrap, secure the LED power cable to the loop on back panel.

12. Install back bracket by inserting screws on back panel into notches on front panel at an angle, as shown. Ensure LED power cord is routed through the opening in the bottom of panels.
13. Rotate the back panel down until it lies snugly against front panel.
14. Attach panels using the four screws removed in step 8.

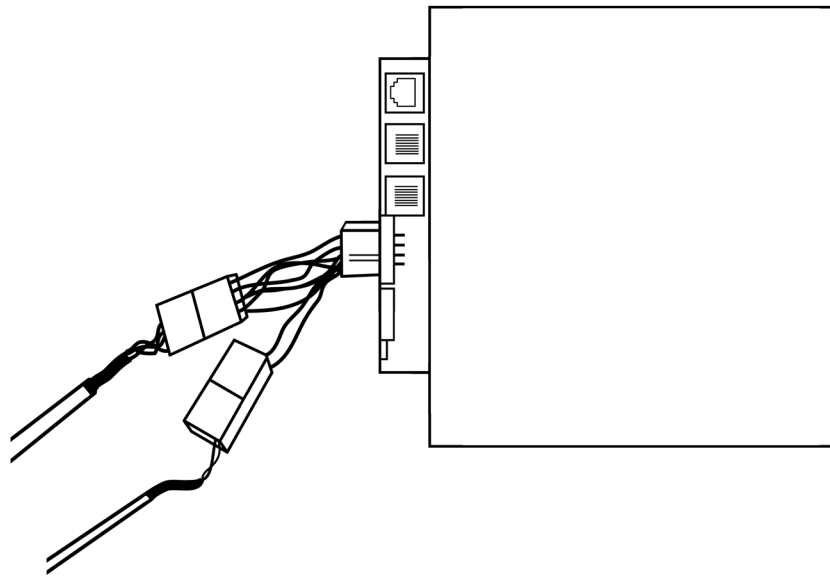


15. Install topper assembly onto ATM by inserting screw on bottom of topper assembly into the corresponding holes in top of cabinet. Ensure LED power cable is routed through round hole in cabinet.
16. Install the four nuts removed in step 4 to secure topper assembly.
17. If ATM is equipped with a dual power supply:
 - Plug LED power cable into an empty receptacle on power supply. Power extension cable from upgrade kit is not needed for use with a dual power supply.
 - Roll excess power cord into a loop, and secure with remaining TY wrap.



18. If ATM is equipped with a single power supply:

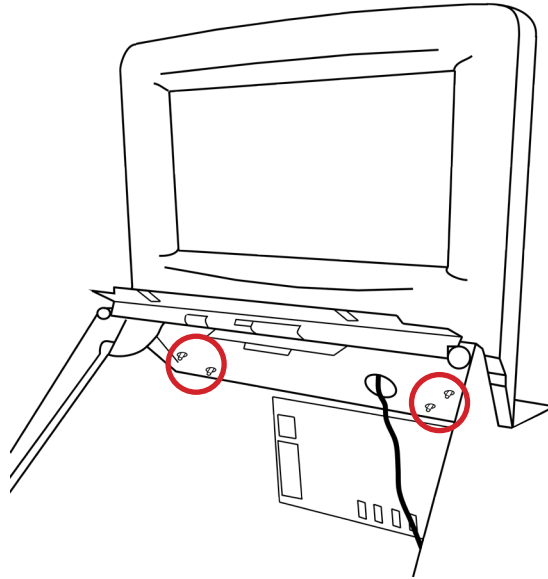
- Unplug power supply power cable from main board.
- Remove the power extension cable from upgrade kit.
- Plug the single-connector end of the power extension cable into the empty receptacle on the main board.
- Connect the power supply power cable to the power extension cable in the port labeled:
TO POWER SUPPLY.
- Connect the LED power cable from topper assembly to the power extension cable in the port labeled:
AUXILIARY
- Secure LED power cable to cord bundle using the remaining TY wrap from upgrade kit.



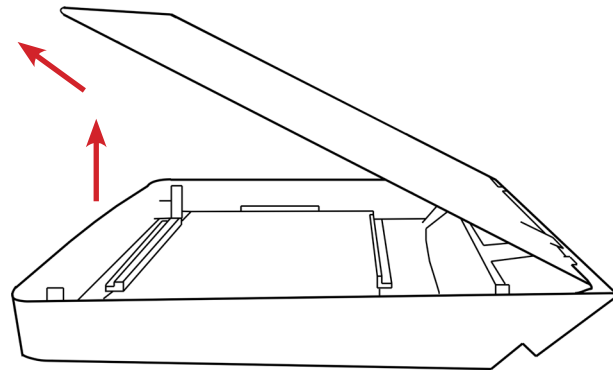
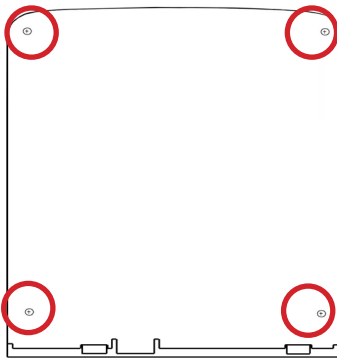
19. Turn the power switch on the power supply to the on (I) position.

LED BOARD REPLACEMENT KIT FOR RL2/RL5

1. Perform a proper shutdown via *Management Functions > System Parameters > Shut Down the Terminal*.
2. Unlock and open the control panel.
3. Turn power switch on the power supply to the off (O) position.
4. Unplug topper power cable from power supply.
5. Using a $1\frac{1}{32}$ nut driver, remove the four nuts that secure the topper to cabinet. Retain for reinstallation.

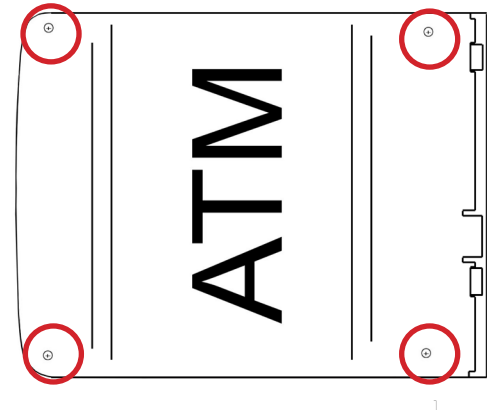
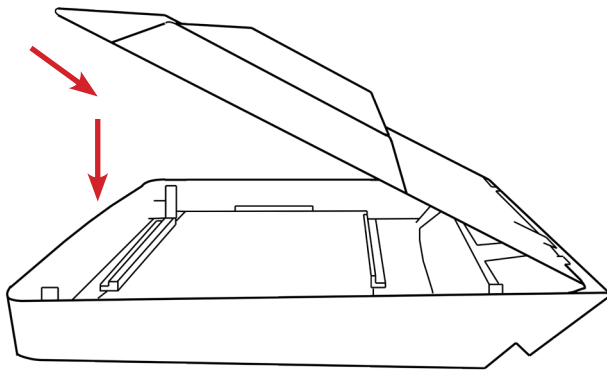


6. Grasp topper on each side, and lift topper and LED power cord clear of the cabinet.
7. Lay topper face down on a flat surface.
8. Remove four screws. Retain for reinstallation.
9. Remove back panel and discard.



10. Remove contoured back panel and LED assembly from upgrade kit.
11. Plug the smaller connector of power cable into the bottom receptacle on the LED board.
12. Using TY wrap, secure the LED power cable to the loop on back panel.

13. Install back bracket by inserting screws on back panel into notches on front panel at an angle, as shown. Ensure LED power cord is routed through the opening in the bottom of panels.
14. Rotate the back panel down until it lies snugly against front panel.
15. Attach panels using the four screws removed in step 8.



16. Install topper assembly onto ATM by inserting screw on bottom of topper assembly into the corresponding holes in top of cabinet. Ensure LED power cable is routed through round hole in cabinet.
17. Install the four nuts removed in step 5 to secure topper assembly.
18. Plug LED power cable into empty receptacle on the power supply.
19. Turn the power switch on the power supply to the on (I) position.