

**HSL-RT6-M45
REYNOLDS RT-6 TESTER
CONTROL (M4530 BASED)
KEYPAD QUICK REFERENCE**

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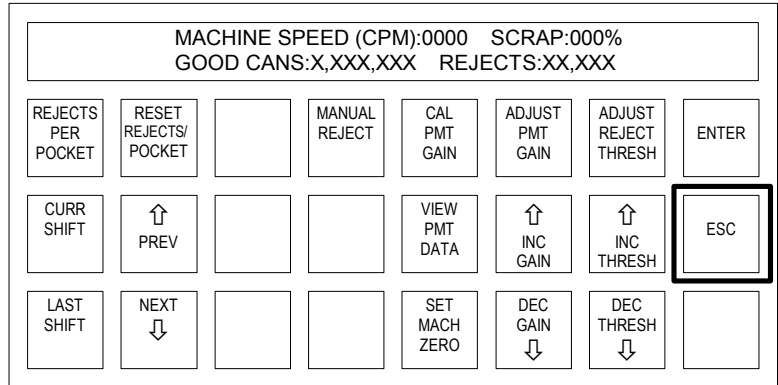
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CONVENTIONS USED IN THIS MANUAL

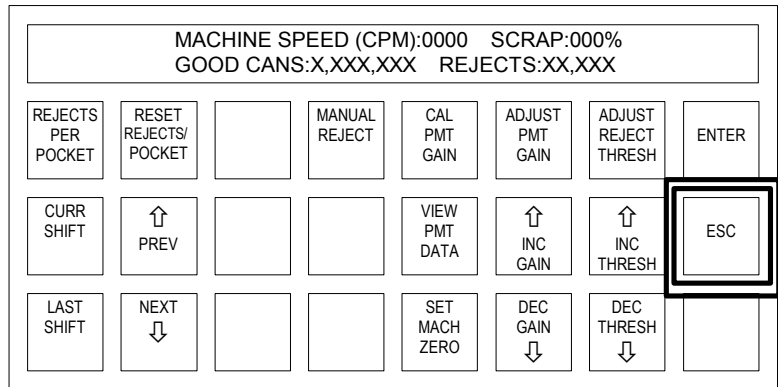
This manual is provided as a quick reference for entering parameters through the HSL-RT6-M45 keypad. For complete details on the parameters that can be set through the HSL-RT6-M45 keypad or for additional information on the HSL-RT6-M45 in general, refer to the HSL-RT6-M45 User's Manual.

The following conventions are used through-out this manual.

- 1) This indicates to depress that key one time.



- 2) This indicates to press that key two or more times as directed.



CONVENTIONS USED IN THIS MANUAL

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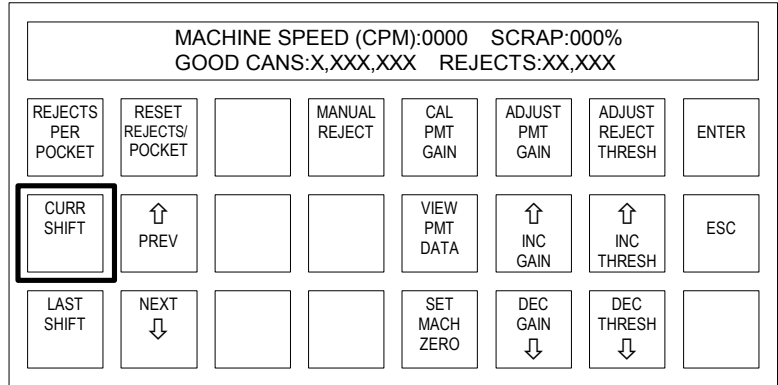
SECTION 1

VIEWING CURRENT SHIFT DATA

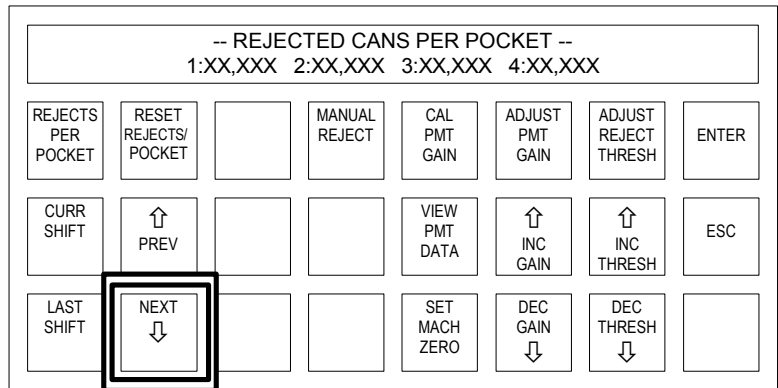
The Current Shift data menu displays the number total rejected cans for each pocket. Note that the Current shift “Good Cans” and “Rejects” are displayed as part of the default screen.

To display the Current Shift counts perform the following:

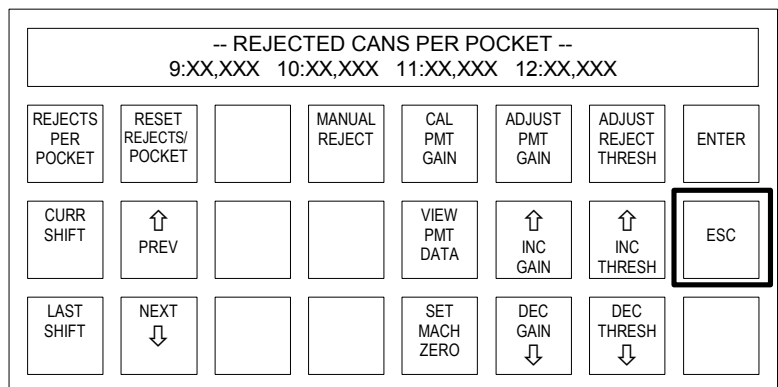
- 1) With the main menu displayed, press the “CURR SHIFT” key.



- 2) The “Rejects per Pocket” for the first 4 pockets are displayed. Press the “NEXT” key to advance through all the pockets.



- 3) Once the rejects for all pockets have been observed, press the “ESC” key to return to the main menu.

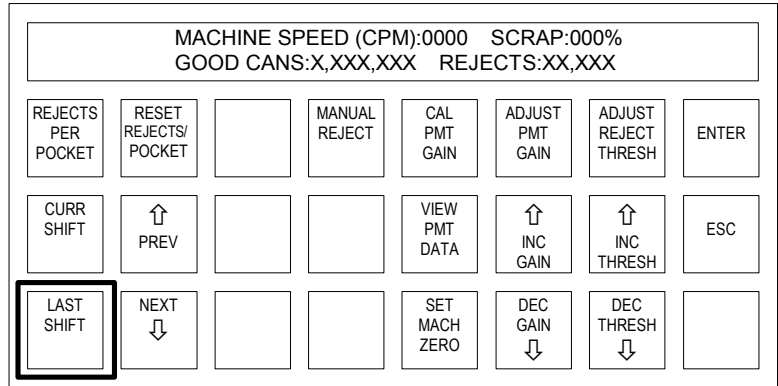


SECTION 2 VIEWING LAST SHIFT DATA

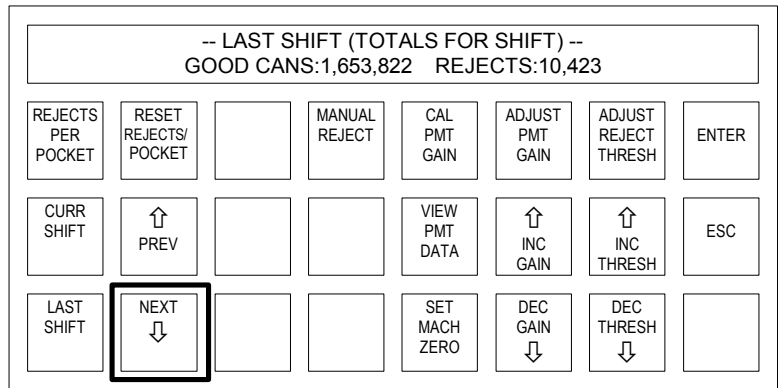
The Last Shift data menu displays the number of “Good Cans” and number of “Rejects” as well as the total %scrap and rejected cans for each pocket for the previous (last) shift.

To display the Last Shift counts perform the following:

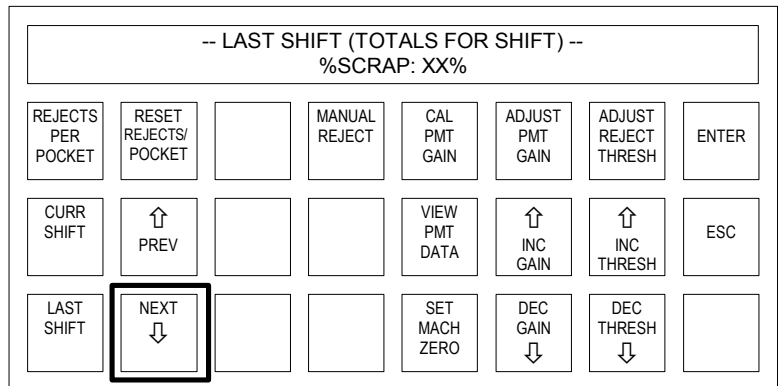
- 1) With the main menu displayed, press the “LAST SHIFT” key.



- 2) The number of “Good Cans” and number of “Rejects” are displayed. Press the “NEXT” key to advance to the next data display.

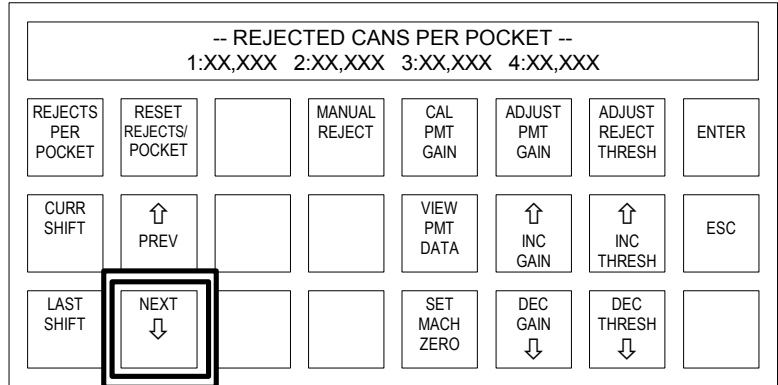


- 3) The total %scrap for the Last Shift is displayed. Press the “NEXT” key to advance to the next data display. Press the “PREV” key to retard to the previous display.

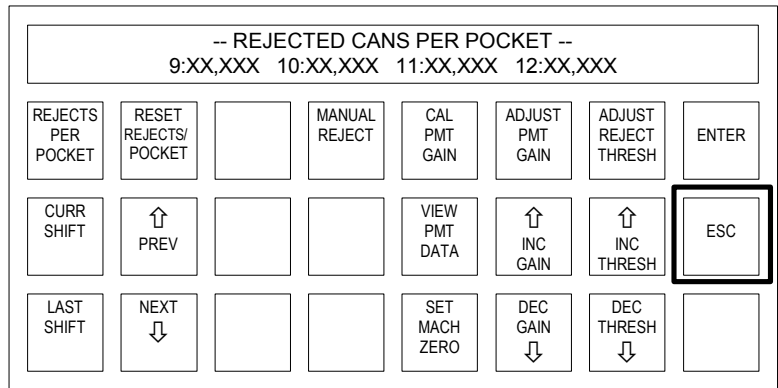


SECTION 2 VIEWING LAST SHIFT DATA

- 4) The “Rejects per Pocket” for the first 4 pockets are displayed. Press the “NEXT” key to advance through all the pockets. Press the “PREV” key to retard to the previous display.



- 5) Once the rejects for all pockets have been observed, press the “ESC” key to return to the main menu.

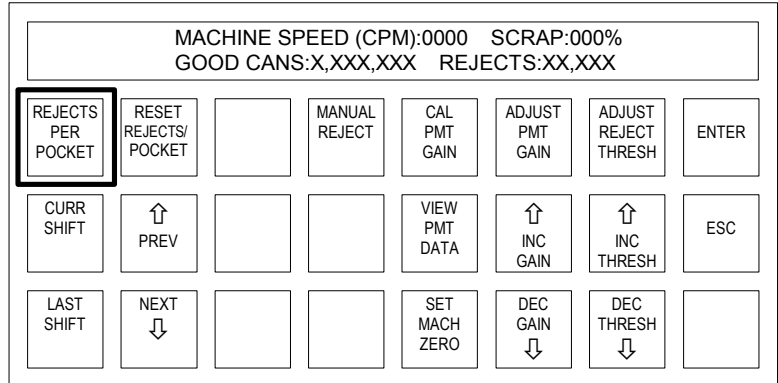


SECTION 3 VIEWING REJECTS PER POCKET

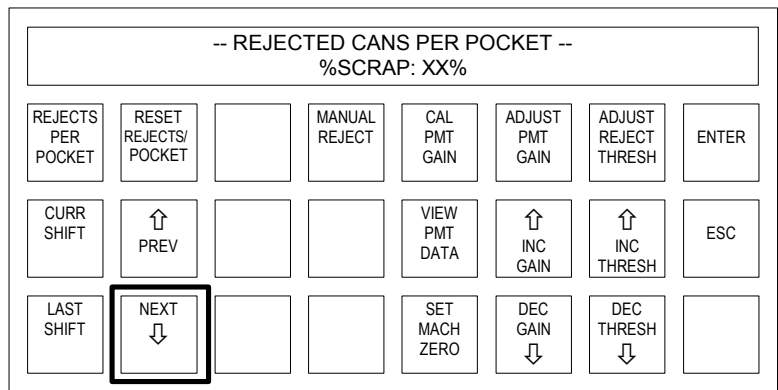
The Rejects per pocket is the number of rejected cans for each pocket since the last reset or end of shift data transfer. The number of rejected cans per pocket menu is provided to aid in the trouble-shooting of a bad seal with a particular pocket.

To display the Rejects Per Pocket perform the following:

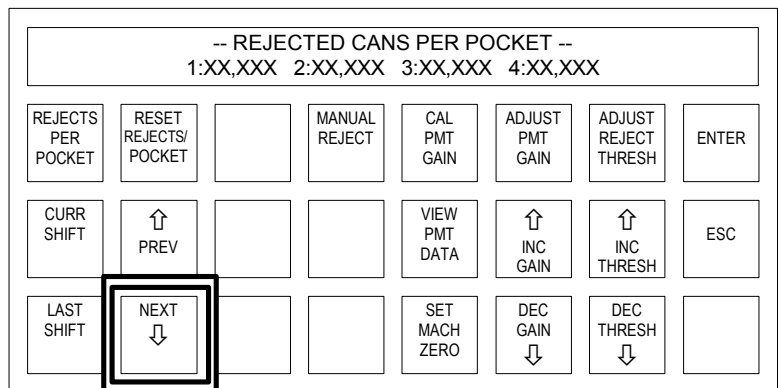
- 1) With the main menu displayed, press the “REJECTS PER POCKET” key.



- 2) The %scrap since the last “Reset” or “End of Shift” is displayed. Press the “NEXT” key to advance to the “Rejects per Pocket” for the first 4 pockets or press the “PREV” key to retard to the previous display.



- 3) The “Rejects per Pocket” for the first 4 pockets are displayed. These are the actual counts per pocket since the last reset. Press the “NEXT” key to advance through all the pockets or press the “PREV” key to retard to the previous display.



SECTION 3 VIEWING REJECTS PER POCKET

- 4) Once the rejects for all pockets have been observed, press the “ESC” key to return to the main menu.

Note: The “ESC” key can be used at any time to abort the rejects per pocket data and return to the main menu.

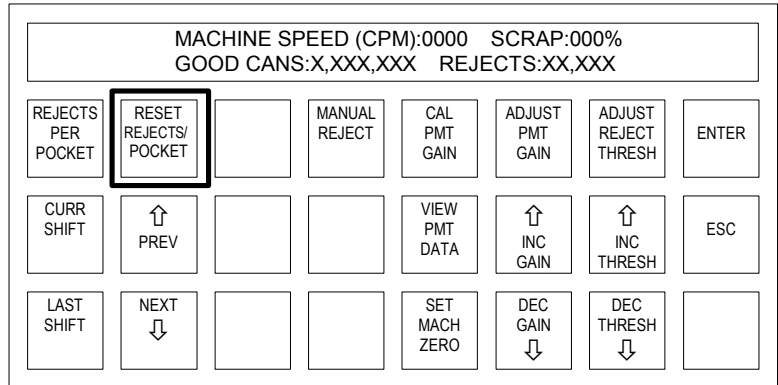
-- REJECTED CANS PER POCKET --							
9:XX,XXX 10:XX,XXX 11:XX,XXX 12:XX,XXX							
REJECTS PER POCKET	RESET REJECTS/ POCKET		MANUAL REJECT	CAL PMT GAIN	ADJUST PMT GAIN	ADJUST REJECT THRESH	ENTER
CURR SHIFT	↑ PREV			VIEW PMT DATA	↑ INC GAIN	↑ INC THRESH	ESC
LAST SHIFT	NEXT ↓			SET MACH ZERO	DEC GAIN ↓	DEC THRESH ↓	

SECTION 4 RESETTING REJECTS PER POCKET

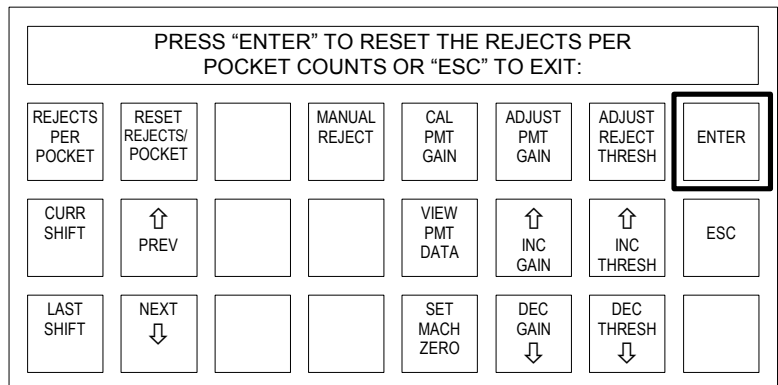
The “Reset Rejects per Pocket” key is used to reset the rejected cans per pocket counts that are displayed in the “Rejected Cans per Pocket” menu. The operator can reset these counts at any time to aid in the trouble-shooting process. Note that the rejects per pocket counts collected in the current shift or last shift menus will not be reset when this key is hit.

To “Reset” the rejects per pocket perform the following:

- 1) With the main menu displayed, press the “RESET REJECTS/ POCKET” key.



- 2) Press “ENTER” to reset the rejects per pocket counts. Press “ESC” to exit without resetting the counts and return to the main menu.

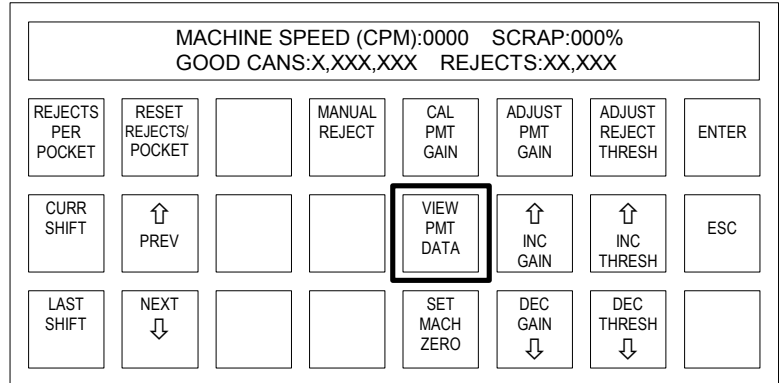


SECTION 5 VIEWING PMT DATA

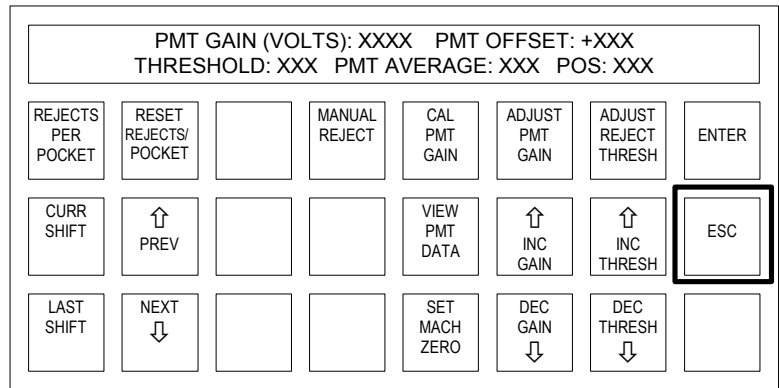
The PMT data menu displays the PMT Gain (volts), the PMT Input Offset, the Reject Threshold, the PMT Average and the resolver position. This data is shown in real time and reflects any change in value that may occur for each set-up parameter.

To display the PMT data perform the following:

- 1) With the main menu displayed, press the “VIEW PMT DATA” key.



- 2) Once PMT data have been observed, press the “ESC” key to return to the main menu.



SECTION 6 PMT GAIN CALIBRATION PROCEDURE

The “Calibrate PMT Gain” key is used to perform the PMT Gain calibration procedure per section 3.4 of the HSL-RT6-M45 User’s Manual.

To calibrate the PMT gain, perform the following:

- 1) With the main menu displayed, press the “CLA PMT GAIN” key.

MACHINE SPEED (CPM):0000 SCRAP:000% GOOD CANS:X,XXX,XXX REJECTS:XX,XXX							
REJECTS PER POCKET	RESET REJECTS/ POCKET		MANUAL REJECT	CAL PMT GAIN	ADJUST PMT GAIN	ADJUST REJECT THRESH	ENTER
CURR SHIFT	↑ PREV			VIEW PMT DATA	↑ INC GAIN	↑ INC THRESH	ESC
LAST SHIFT	NEXT ↓			SET MACH ZERO	DEC GAIN ↓	DEC THRESH ↓	

- 2) When selected, align a calibrated leak test can at the PMT and press the “ENTER” key.

PLACE CALIBRATED LEAKER AT PMT AND PRESS “ENTER” TO CALIBRATE OR “ESC” TO EXIT:							
REJECTS PER POCKET	RESET REJECTS/ POCKET		MANUAL REJECT	CAL PMT GAIN	ADJUST PMT GAIN	ADJUST REJECT THRESH	ENTER
CURR SHIFT	↑ PREV			VIEW PMT DATA	↑ INC GAIN	↑ INC THRESH	ESC
LAST SHIFT	NEXT ↓			SET MACH ZERO	DEC GAIN ↓	DEC THRESH ↓	

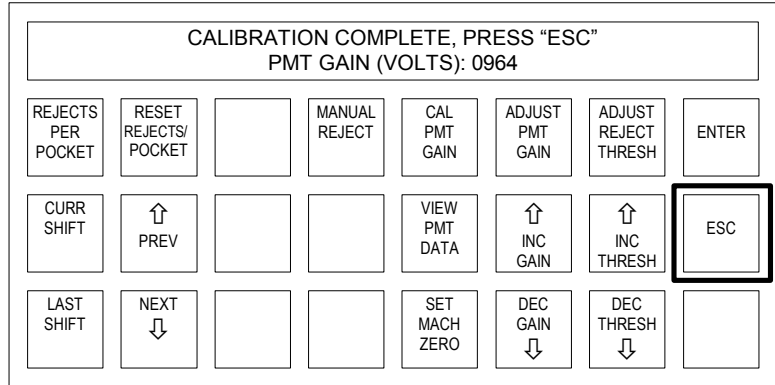
- 3) Once the calibration procedure is initiated, the screen will display:

PMT GAIN CALIBRATION IN PROGRESS PMT GAIN (VOLTS): 1101							
REJECTS PER POCKET	RESET REJECTS/ POCKET		MANUAL REJECT	CAL PMT GAIN	ADJUST PMT GAIN	ADJUST REJECT THRESH	ENTER
CURR SHIFT	↑ PREV			VIEW PMT DATA	↑ INC GAIN	↑ INC THRESH	ESC
LAST SHIFT	NEXT ↓			SET MACH ZERO	DEC GAIN ↓	DEC THRESH ↓	

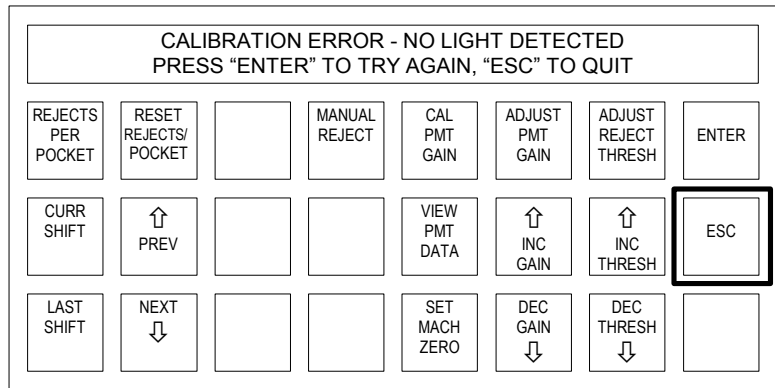
SECTION 6

PMT GAIN CALIBRATION PROCEDURE

- 4) If the calibration was successful, press the “ESC” key to return to the main menu.



- 5) If the calibration is not successful, press the “ENTER” key to try the calibration again, or press the “ESC” key to quit and return to the main menu.

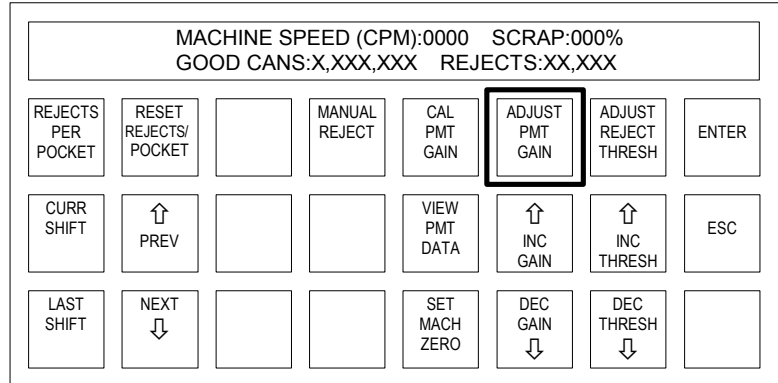


SECTION 7 ADJUSTING THE PMT GAIN

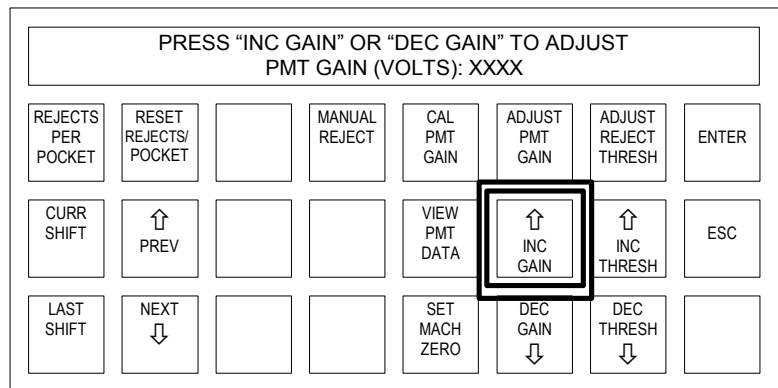
The “Adjust PMT Gain” key is used to manually increase or decrease the PMT Gain. The Gain sensitivity can be increased up or decreased down in increments of 5 volts. Increasing the gain will increase the sensitivity of the system, decreasing the gain will decrease the sensitivity of the system.

To adjust the PMT Gain, perform the following:

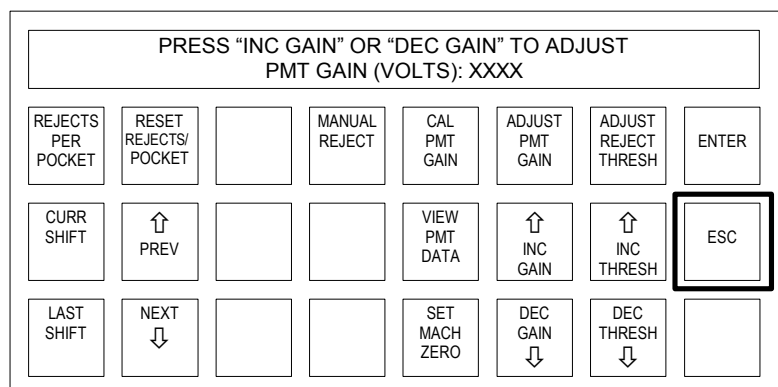
- 1) With the main menu displayed, press the “ADJUST PMT GAIN” key.



- 2) Press the “INC GAIN” key to increase the sensitivity of the system in increments of 5 volts. Press the “DEC GAIN” key to decrease the sensitivity of the system in increments of 5 volts.



- 3) Once the Gain has been adjusted as desired, press the “ESC” key to return to the main menu.



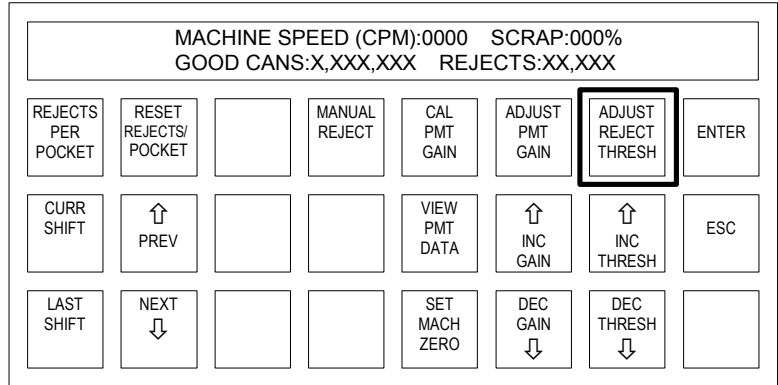
SECTION 8

ADJUSTING THE REJECT THRESHOLD

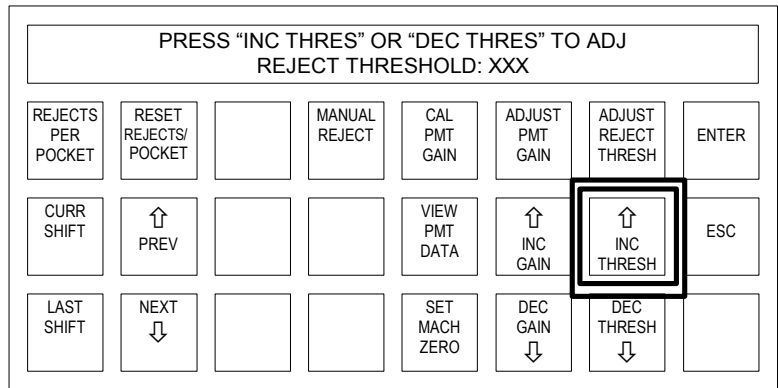
The “Adjust Reject Threshold” key is used to increase or decrease the reject threshold. The threshold can be increased or decreased by one each time the key is pressed. Increasing the threshold will decrease the sensitivity of the system, decreasing the threshold will increase the sensitivity of the system.

To adjust the reject threshold, perform the following:

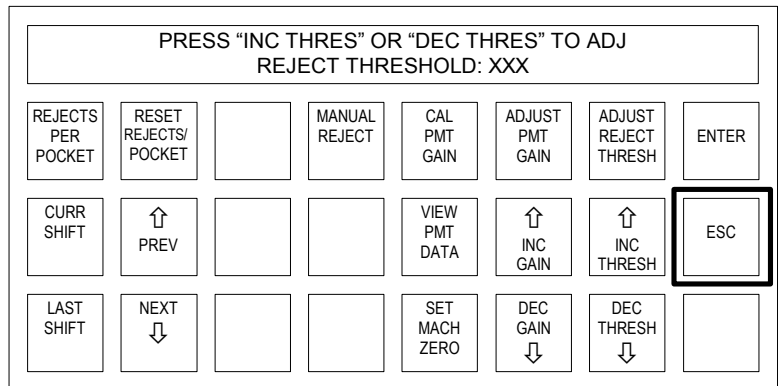
- 1) With the main menu displayed, press the “ADJUST REJECT THRESH” key.



- 2) Press the “INC THRESH” key to decrease the sensitivity of the system by one each time the key is pressed. Press the “DEC THRESH” key to increase the sensitivity of the system by one each time the key is pressed.



- 3) Once the reject threshold has been adjusted as desired, press the “ESC” key to return to the main menu.



SECTION 9 SET MACHINE ZERO (SET RESOLVER OFFSET)

The “Set Machine Zero” key is used to auto zero the resolver.

To set the machine zero (resolver offset), perform the following:

- 1) With the main menu displayed, press the “SET MACH ZERO” key.

MACHINE SPEED (CPM):0000 SCRAP:000% GOOD CANS:X,XXX,XXX REJECTS:XX,XXX							
REJECTS PER POCKET	RESET REJECTS/ POCKET		MANUAL REJECT	CAL PMT GAIN	ADJUST PMT GAIN	ADJUST REJECT THRESH	ENTER
CURR SHIFT	↑ PREV			VIEW PMT DATA	↑ INC GAIN	↑ INC THRESH	ESC
LAST SHIFT	NEXT ↓			SET MACH ZERO	DEC GAIN ↓	DEC THRESH ↓	

- 2) With pocket #1 aligned with the PMT, press “ENTER” to zero the resolver. Press the “ESC” key to exit and return to the main menu.

TO ZERO RESOLVER, ALIGH POCKET #1 WITH PMT AND PRESS “ENTER” OR “ESC” TO EXIT:							
REJECTS PER POCKET	RESET REJECTS/ POCKET		MANUAL REJECT	CAL PMT GAIN	ADJUST PMT GAIN	ADJUST REJECT THRESH	ENTER
CURR SHIFT	↑ PREV			VIEW PMT DATA	↑ INC GAIN	↑ INC THRESH	ESC
LAST SHIFT	NEXT ↓			SET MACH ZERO	DEC GAIN ↓	DEC THRESH ↓	

- 3) The “View PMT Data” menu will be displayed, now showing the “POS” at zero. Press the “ESC” key to return to the main menu.

PMT GAIN (VOLTS): XXXX PMT OFFSET: +XXX THRESHOLD: XXX PMT AVERAGE: XXX POS: XXX							
REJECTS PER POCKET	RESET REJECTS/ POCKET		MANUAL REJECT	CAL PMT GAIN	ADJUST PMT GAIN	ADJUST REJECT THRESH	ENTER
CURR SHIFT	↑ PREV			VIEW PMT DATA	↑ INC GAIN	↑ INC THRESH	ESC
LAST SHIFT	NEXT ↓			SET MACH ZERO	DEC GAIN ↓	DEC THRESH ↓	