

# C844 Bicycle

**Warning:** This service manual is for use by Precor trained service providers only. If you are not a Precor Trained Servicer, you must not attempt to service any Precor Product; Call your dealer for service.

This document contains information required to perform the majority of troubleshooting, and replacement procedures required to repair and maintain this product.

This document contains general product information, software diagnostic procedures (when available), preventative maintenance procedures, inspection and adjustment procedures, troubleshooting procedures, replacement procedures and electrical block and wiring diagrams.

To move directly to a procedure, click the appropriate procedure in the bookmark section to the left of this page. You may “drag” the separator bar between this page and the bookmark section to change the size of the page being viewed.

## Section One - Things You Should Know

### Right, Left, Front, and Back Conventions

In this manual, right, left, front, and back are from the perspective of a user sitting on the C844, facing the display enclosure.

### Warning and Caution Statements and General Safety Guidelines

Warning statements indicate a particularly dangerous activity. Warning statements you will find in this manual include:

- To remove power from the C844, the power cord must be disconnected from the wall outlet. Always ensure that the C844 is unplugged from the wall outlet when you inspect or adjust the C844, or when you isolate, remove, or replace a C844 component.
- Removing the covers exposes high voltage components and potentially dangerous machinery. Exercise extreme caution when you perform maintenance procedures with the hood removed.
- During service operations you will be very close to moving machinery and high voltage components. When you perform maintenance procedures with the covers removed, remove jewelry (especially from ears and neck), tie up long hair, remove neck ties, and do not wear loose clothing.
- Exercise caution when touching any wire or electrical component during C844 operation.
- The flywheel is very heavy. Be prepared for the weight of the flywheel when it comes off of the flywheel shaft.

Caution statements are intended to prevent damage to the C844 as a result of the current activity. Caution statements included in this manual are listed below:

- Notice the orientation notch on the PROM (U3). These components must be positioned with the same notch orientation.
- When it is necessary to lift the C844, ensure that the C844 has adequate support. Do not lift the C844 by the front cross-member.

### Safety guidelines you should know and follow include:

- Read the owner's manual and follow all operating instructions.
- Visually check the C844 before beginning service or maintenance operations. If it is not completely assembled or is damaged in any way, exercise extreme caution while operating

and checking the C844.

- When operating the C844, do not wear loose clothing. Do not wear shoes with heels or leather soles. Check the soles of your shoes and remove any embedded stones. Tie long hair back.
- Do not rock the unit. Do not stand or climb on the handlebars, display enclosure, or cover.
- Do not set anything on the handlebars, display enclosure, or cover. Never place liquids on any part of the C844.
- To prevent electrical shock, keep all electrical components, such as the power cord and circuit breaker away from water and other liquids.
- Do not use accessory attachments that are not recommended by the manufacturer, such attachments might cause injuries.

### **General Information**

For the latest exploded view, part number and part pricing information, visit the Precor dealer website at "[www.precor.com/Dealer](http://www.precor.com/Dealer)."

## **Required Tools and Equipment**

The following is a summary of the tools and equipment that may be required when you service a Precor C844 Upright Cycle.

### **Tools**

Phillip and flat-head screwdrivers  
Standard and metric allen wrench set  
Open-end wrench set  
Socket wrench set  
Chip puller  
Rubber mallet  
Snap ring pliers  
Torque wrench

### **Equipment**

Anti-static kit  
Digital multimeter

### **Supplies**

Cable ties

## Procedure 2.1 - Performing C844 Cycle Diagnostics

This procedure tests or displays the following:

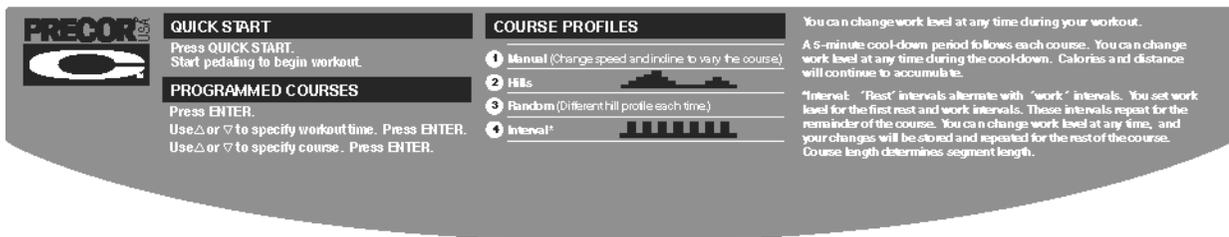
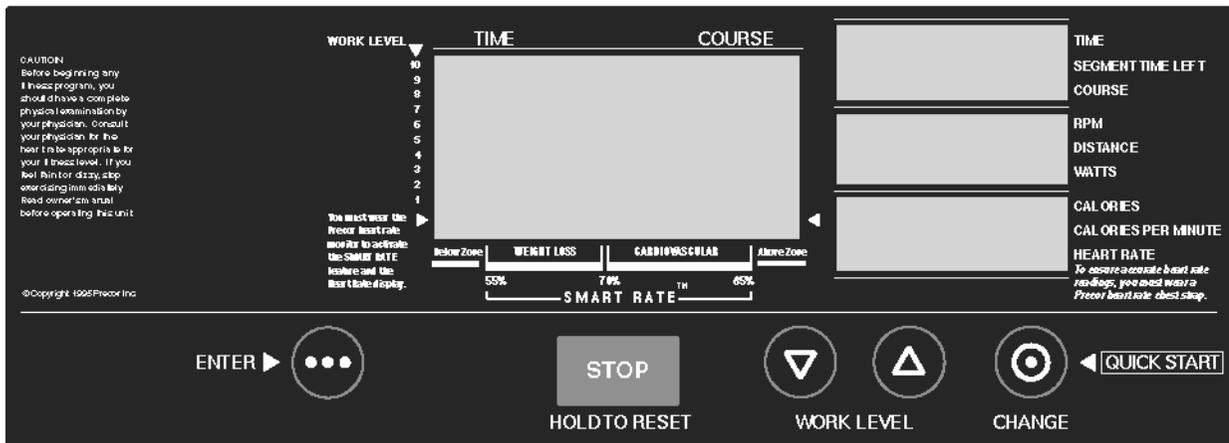
- Display Array
  - Seven Segment Displays
  - Baseline Resistance
  - Software Revision Number
  - Heart Rate Diagnostic
  - Power Bits
  - Keypad Test
1. Plug the power cord into the wall outlet, then turn on the cycle with the ON/OFF switch.
  2. With the **PRECOR C844** banner scrolling, press the **STOP**, **WORK LEVEL UP** and **WORK LEVEL DOWN** keys simultaneously.
  3. Verify that the entire left display window illuminates, then two diagonal lines sweep across the display.
  4. Watch the electronic display as the LED test progresses. This test is programmed to display the following LED illumination sequence:
    - a. Every LED on the left display window illuminates simultaneously;
    - b. Horizontal, vertical, and diagonal lines of illuminated LED's sweep across the left display window;
    - c. The right display windows illuminate, then decrement from 8.8.8.8 to 0.0.0.0;
    - d. The function LED's illuminate simultaneously and then extinguish; and
    - e. Each function LED illuminates separately and then extinguishes.
  5. If you do not observe the LED illumination sequence described in the previous steps . . .

**THEN . . .**

Replace the upper PCA as described in Procedure 7.1.

**OTHERWISE . . .**

Continue with the next step.



6. Make a note of the Baseline Resistance numbers displayed on the electronic console. Individually press the **WORK LEVEL** keys and verify that the Baseline Resistance numbers change as the **WORK LEVEL** keys are pressed.
7. The software version number is displayed on the electronic console. Press **ENTER**, then release.
8. **HART** is displayed in the right display window. Put on the heart rate monitor.
9. While using the Heart Rate Transmitter, verify that the **HEART RATE** indicator blinks in time with your heart beat and the heart rate information displayed is correct . . .

#### THEN . . .

Diagnostic software HART mode checks correctly; continue with the next step.

#### OTHERWISE . . .

Refer to the Smart Rate System Service and Maintenance Manual.

10. Press **ENTER**, then release. The power bits is displayed on the electronic console. Press **ENTER**, then release.

**Note:** Seven dots are displayed in the center of the left window.

As you press each key listed in Step 11, the column of the left display window corresponding to the key pressed should illuminate. When you release each key, the column of light should be replaced by a single dot.

11. Press each key listed:

BLANK  
ENTER  
BLANK  
STOP  
WORK LEVEL UP  
WORK LEVEL DOWN

12. If the appropriate sections of the left display window illuminated when the corresponding keys were pressed . . .

**THEN . . .**

The keypad test passed successfully;  
continue with the next step.

**OTHERWISE . . .**

Replace the upper PCA as described  
in Procedure 7.1.

13. Press **ENTER** and **WORK LEVEL UP** to return to the **PRECOR C844** banner.

## Procedure 2.2 - Displaying the Odometer

This procedure displays total distance (in miles or kilometers).

1. Plug the power cord into the wall outlet, then turn on the bike with the circuit breaker.
2. With the **PRECOR C844** banner scrolling, press the **STOP** and **WORK LEVEL UP** keys simultaneously and hold them until the message **CYCLE ODOMETER** scrolls across the left display window.

**Note:** The right display window displays total miles or kilometers on the cycle (see Diagram 2-2). The top display window shows the most significant bits of the number; the lower display window shows the least significant bits of the number. The number displayed is 102,187,723 (in miles or kilometers).

3. Press **ENTER** twice to return to the **User ID** prompt.

**Diagram 2-2.** Odometer Reading For the C844 Cycle

0	0	0	1
0	2	1	8
7	7	2	3

## Procedure 2.3 - Selecting Club Settings

This procedure allows the modification of the following settings:

- U. S. Standard/Metric
- Line Voltage Selection
- Get Max Workout Time

1. Plug the power cord into the wall outlet, then turn on the cycle with the ON/OFF switch.
2. With the **PRECOR C844** banner scrolling, press the **QUICKSTART** and **WORK LEVEL ▲** keys simultaneously. Across the left display window scrolls either the banner **U. S. Standard** or the banner **Metric**.
3. If you wish to change the measurement standard . . .

### **THEN . . .**

Use the **UP** or **DOWN** keys to toggle to an alternate measurement standard; then continue with the next step.

### **OTHERWISE . . .**

Continue with the next step.

4. Press **ENTER**, then release. The line voltage currently selected is displayed on the left display window.
5. If you wish to toggle to the alternate line voltage. . .

### **THEN . . .**

Use the **UP** or **DOWN** keys to toggle to the alternate line voltage; then continue with the next step.

### **OTHERWISE . . .**

Continue with the next step.

6. Press **ENTER**, then release. The maximum workout time is displayed on the left display window.
7. If you wish to change the maximum workout time . . .

**THEN . . .**

Use the **UP** or **DOWN** keys to select the new maximum workout time; then continue with the next step.

**OTHERWISE . . .**

Continue with the next step.

8. Press **ENTER**, then release to return to the **C844 Cycle** banner.

## Procedure 2.4 - Documenting Software Problems

When a problem is found with either the software or upper or lower PCA's, record the information listed below. If you isolated the problem to either the PROM, upper PCA, or lower PCA, include the information you recorded with the malfunctioning PROM or PCA when you ship it to Precor Customer Support.

### When a problem occurs, record the following information:

- Model and serial number

**Note:** The model serial number is located on the bottom of the lower crossbeam.

- Software version number
- Odometer reading

**Note:** Determine the version number of the PROM mounted on the upper PCA as described in Procedure 2.1.

- User and program number running when the problem occurred
- A description of:
  - a. What happened or failed to happen
  - b. The action taken by the user just before the problem occurred
  - c. Problem related information (such as how far into the program the problem occurred, the work level being used when the problem occurred, etc.)
- The frequency of occurrence

## Section Three - Preventive Maintenance

Preventive maintenance measures are either scheduled or unscheduled. Scheduled preventive maintenance activities are included here so that you are aware of preventive measures performed on a regular basis.

### Regular Preventive Maintenance (Owner)

Cleanliness of the cycle and its operating environment will keep maintenance problems and service calls to a minimum. Precor recommends performing the following preventive maintenance schedule.

#### At the End of Each Day

- Wipe the pedals with a damp cloth.

#### Every Week

- Wipe the surface of the electronic console with a barely-damp sponge or soft cloth. Dry with a clean towel.

### CAUTION

Keep water away from electronic components to prevent shock.

### On-Site Preventive Maintenance (Service Technician)

Perform the following preventive maintenance tasks each time you are called to service a C844:

- Check the LED's mounted on the upper PCA and the function keys displayed on the electronic console by performing Procedure 2.1.
- Measure the gap between the flywheel and the magnets as described in Procedure 5.1.
- Visually examine all wires and check connectors and wire connections. Secure connections and replace wiring as necessary.
- When the covers are removed, visually inspect the lower ribbon cable and the part of the upper ribbon cable that is not inside the column. If either ribbon cable is torn or damaged, replace it as described in Procedure 7.7.

## Section Four - Checking Unit Operation

This section provides you with a quick method of checking cycle operation. Check the operation of the C844 Cycle at the end of most maintenance procedures.

### Procedure

1. Plug the power cord into the wall outlet, then turn on the bike with the circuit breaker.
2. If the display does not illuminate refer to procedures 6.3 Or 6.4.
3. When the **PRESS ENTER FOR PROGRAMS** prompt appears, press **QUICK START**.
4. Select Work Level 1 and press **ENTER**.
5. Operate the C844 for 4–5 minutes. As you operate the cycle, concentrate on the resistance and operating sounds of the unit. Be on the alert for unusual rubbing, hitting, grinding or squeaking noises.
6. Press the **WORK LEVEL UP** key until you reach Work Level 5. Operate the cycle for another 2–3 minutes.
7. If the resistance of the cycle does not change or the operation of the cycle feels inconsistent compared with Work Level 1 . . .

**THEN . . .**

Refer to procedures 6.5 and 6.6

**OTHERWISE . . .**

Continue with the next step.

8. Press the **WORK LEVEL UP** key until you reach Work Level 10. Operate the cycle for another 2–3 minutes.
9. If the resistance of the cycle does not change or the operation of the cycle feels inconsistent with Work Levels 1 and 5 . . .

**THEN . . .**

Refer procedures 6.5 and 6.6

**OTHERWISE . . .**

Continue with the next step.

10. Check the LED's mounted on the upper PCA and the function keys displayed on the electronic console by performing Procedure 2.1.
11. If the keys do not respond appropriately, refer to procedure 6.2.

## Procedure 5.1 - Inspecting and Adjusting the Gap Between the Magnets and Flywheel

### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

### Procedure

1. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
2. Loosen one of the magnet assemblies.

**Note:** Do not loosen the screws that secure the magnet assembly too much. Although you must be able to move the magnet assembly along the adjustment slots, the assembly must stay in place after it is moved.

3. Place a .050" feeler gauge between the flywheel and each of the magnet coils that make up the magnet assembly.
4. Choose one. If the feeler gauge does not fit snugly . . .

**THEN . . .**

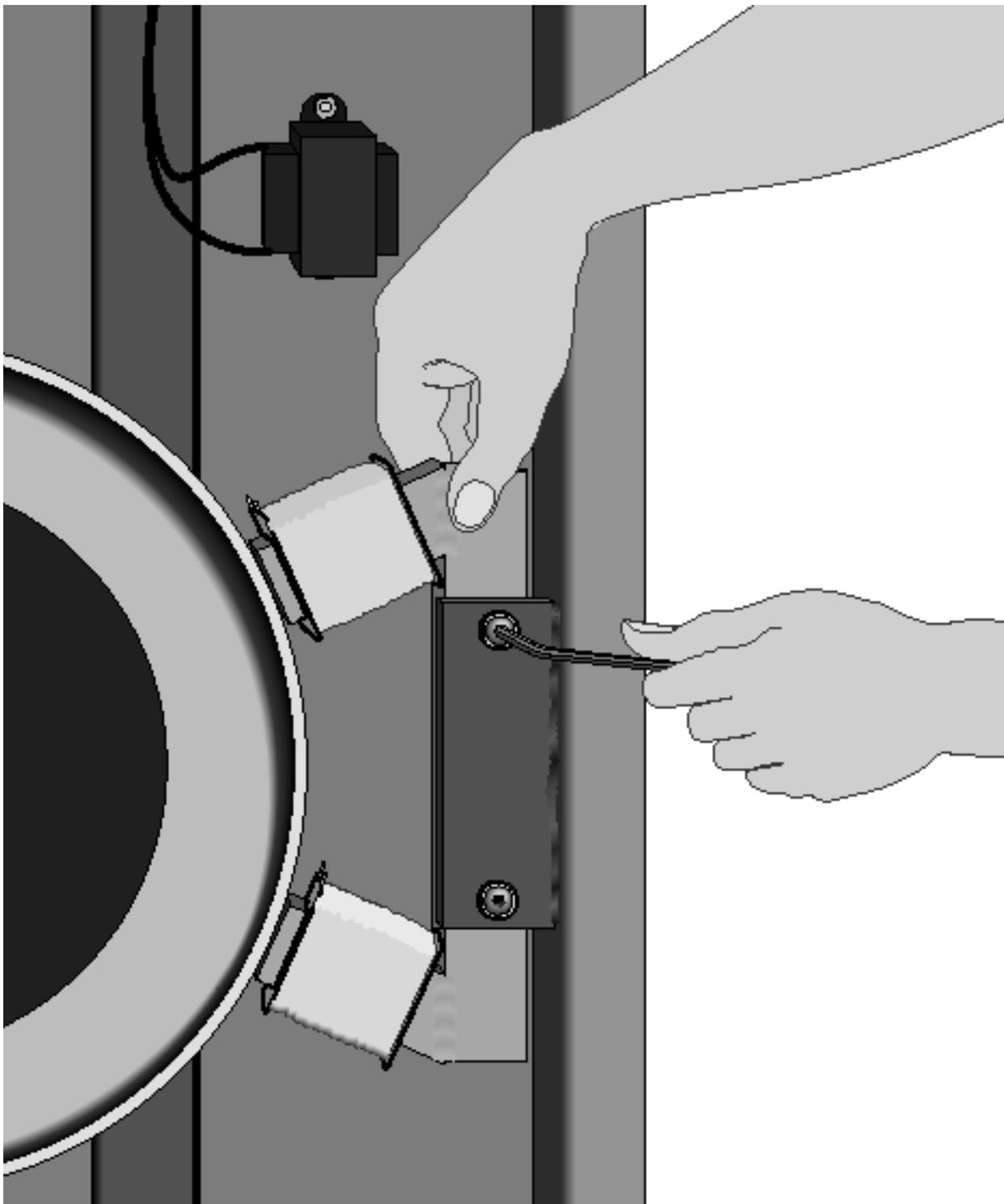
Continue with the next step.

**OTHERWISE . . .**

Skip to Step 6.

5. Slide the magnet assembly along its adjustment slots until the feeler gauge fits snugly between the flywheel and the magnet coil.
6. Tighten the screws that secure the magnet assembly to the frame (see Diagram 5-1).
7. Repeat Steps 2 through 4 for the remaining magnet assembly.
8. Install the pan on the base of the cycle. Return the cycle to its upright position.
9. Check the operation of the C844 as described in Section Four.

**Diagram 5-1 Adjusting the gap between the flywheel and magnet assembly**



## Procedure 5.2 - Measuring the Resistance of a Magnet

### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

### Procedure

1. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
2. Set the ohmmeter to a range that will conveniently read 125 ohms.

### Caution

Remove power from the C844 before you measure magnet resistance.

3. Remove the wires from the terminals on the top magnet. Measure the resistance between the two terminals.

### Note:

The resistance of the magnets will be higher than optimum (90 - 110 ohms) when they are warm. Take resistance measurements when the magnets are at room temperature.

4. If the resistance measures significantly less than 90 ohms or significantly more than 110 ohms . . .

#### THEN . . .

Replace the magnet as described in Procedure 7.13.

#### OTHERWISE . . .

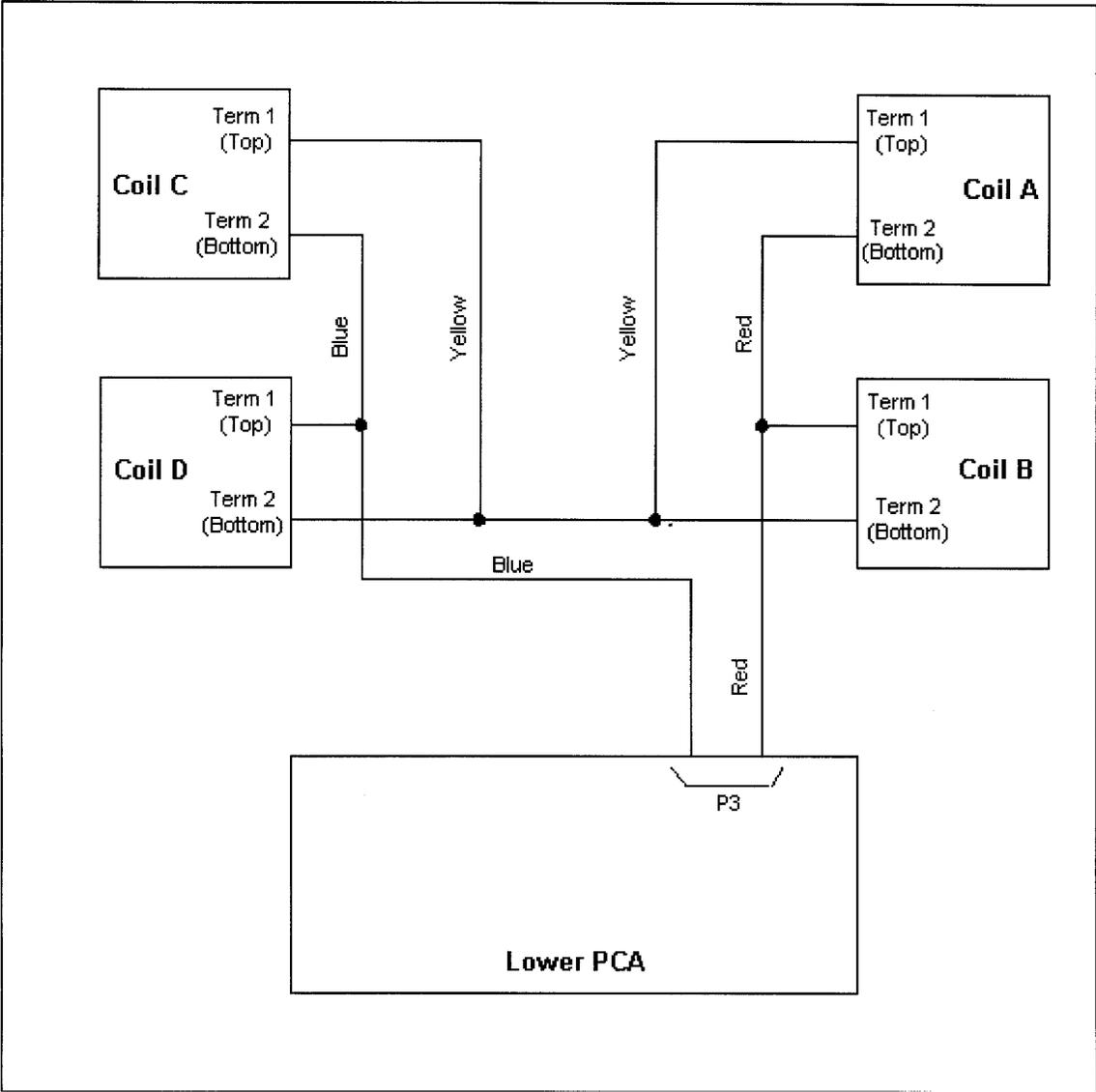
Connect the wires to the magnet. Then continue with the next step.

### Note:

The C844 magnet cable assembly is shown in Diagram 5-2.

5. Repeat Steps 3 and 4 for the remaining magnets.
6. Install the pan on the base of the cycle. Return the cycle to its upright position.
7. Check the operation of the C844 as described in Section Four.

Diagram 5.2 C844 Magnet Wiring



## Procedure 5.3 - Inspecting and Adjusting the Gap Between Upper and Lower Couplers

### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

### Procedure

1. Remove the upright covers from the pedestal weldment.
2. Place a .060" feeler gauge between the upper and lower couplers.
3. If the feeler gauge fits snugly . . .

#### THEN . . .

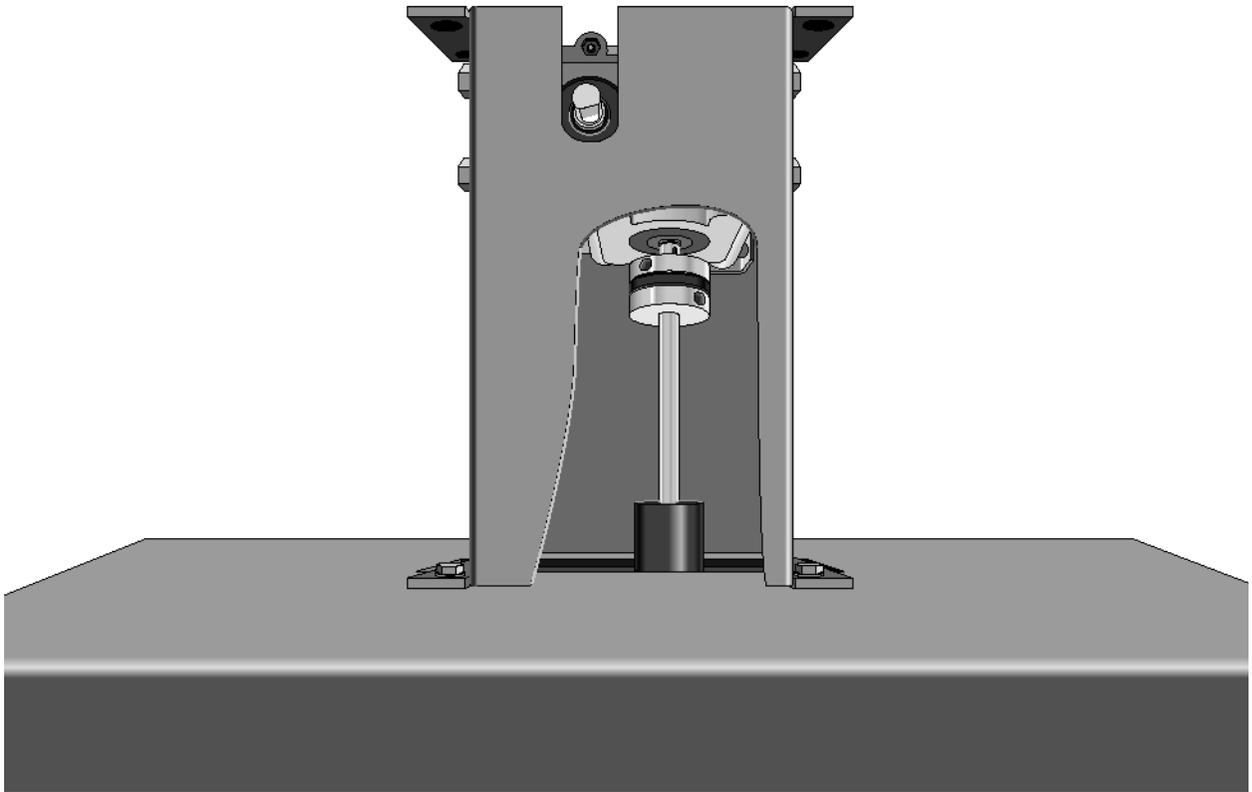
Remove the feeler gauge and rotate the couplers about 90 degrees. Re-check the gap between the couplers. Rotate the couplers and check the gap until you have checked the gap between the couplers at four different spots. Skip to Step 8.

#### OTHERWISE . . .

Adjust the gap between the couplers as described in the following steps.

4. Remove the set screw that secures the upper coupler to the gear box (see Diagram 5-3). If necessary, remove the old loc-tite from the set screw.
5. Adjust the position of the coupler on the gear box shaft until the feeler gauge fits snugly between the upper and lower couplers.
6. Place a drop of blue loc-tite on the set screw removed in Step 4. Install the set screw into the upper coupler.
7. Rotate the couplers about 90 degrees, then return to Step 2.
8. Install the upright covers on the pedestal weldment.
9. Check the operation of the C844 as described in Section Four.

**Diagram 5.3 The Upper and Lower Couplers**



## Procedure 6.1 - Troubleshooting the Lower and Upper Ribbon Cables

### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

### Troubleshooting the Upper Ribbon Cable

1. Remove the upright covers from the pedestal weldment.
2. Attach an anti-static wrist strap to your arm, then connect the ground lead of the wrist strap to the C844 frame.
3. Disconnect the upper ribbon cable from the upper PCA.
4. Disconnect the upper ribbon cable from the lower ribbon cable.
5. Connect the spare ribbon cable between the upper PCA and the lower ribbon cable.
6. Check the operation of the cycle as described in Section Four.
7. If the cycle operated correctly when the spare ribbon cable was installed . . .

#### THEN . . .

The original upper ribbon cable is bad; install a new cable as described in Procedure 7.7.

#### OTHERWISE . . .

The original upper ribbon cable is not defective; continue with the next step.

8. Disconnect the spare ribbon cable from the upper PCA and the lower ribbon cable.
9. Reconnect the original upper ribbon cable.
10. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
11. Disconnect the lower ribbon cable from the lower PCA.
12. Disconnect the lower ribbon cable from the upper ribbon cable.
13. Connect the spare ribbon cable between the lower PCA and the upper ribbon cable.
14. Check the operation of the cycle as described in Section Four.

15. If the cycle operated correctly when the spare ribbon cable was installed . . .

**THEN . . .**

The original lower ribbon cable is bad; install a new cable as described in Procedure 7.7.

**OTHERWISE . . .**

The original lower ribbon cable is not defective; continue with the next step.

16. Disconnect the spare ribbon cable from the lower PCA and the upper ribbon cable.
17. Connect the original lower ribbon cable to the upper PCA.
18. Install the pan to the base of the cycle. Return the cycle to its upright position.
19. Connect the upper ribbon cable to the lower ribbon cable.
20. Remove the ground lead of the wrist strap from the C844 frame, then remove the wrist strap from your arm.
21. Install the upright covers on the pedestal weldment.
22. Check the operation of the cycle as described in Section Four.

## Procedure 6.2 - Troubleshooting the Keypad and Upper PCA

If the function keys on the electronic console are unresponsive, the problem may be either the upper PCA or keypad. This troubleshooting procedure gives you the information you need to determine which of these components is malfunctioning.

### Procedure

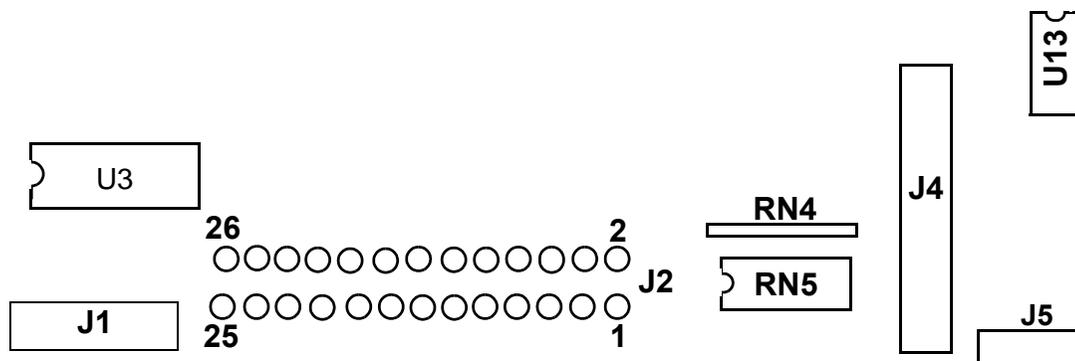
1. Set the circuit breaker in the “off” position.

### WARNING

Before continuing with this procedure, review the Warning and Caution statements listed in Section One of the Residential Treadmill Service Manual.

2. Remove the screws that secure the upper display assembly to the upper handrail. Carefully, pull some excess interconnect cable out from the targa upright. Rotate the display housing, so that the rear of the upper PCA is facing upward, and set the display housing on the upper handrail.
3. Attach the wrist strap to your arm, then connect the ground lead of the wrist strap to the treadmill frame. Set the voltmeter to a range that will conveniently read +6 Vdc.

### Diagram 6.2 - Upper PCA Component Layout



4. Set the voltmeter to a range that will conveniently read +6 Vdc.
5. Set the circuit breaker in the “on” position.
6. Use a DVM, set for DC volts, and read between pin 6 of J3 and the each of the pins in Table 6.1 (no keys pressed) and Table 6.2 (with the appropriate key pressed)...

**Table 6.1 - Voltage Test Points (Function Keys Not Pressed)**

<b>Place the positive lead of the voltmeter on...</b>	<b>The voltmeter should read...</b>
Pin 3 of J3	5 Vdc $\pm$ 500 mVdc
Pin 7 of J3	5 Vdc $\pm$ 500 mVdc
Pin 8 of J3	5 Vdc $\pm$ 500 mVdc
Pin 9 of J3	5 Vdc $\pm$ 500 mVdc
Pin 10 of J3	5 Vdc $\pm$ 500 mVdc

**Table 6.2 - Voltage Test Points (Function Keys Pressed)**

<b>Place the positive voltmeter lead on...</b>	<b>At the display enclosure, press...</b>	<b>The voltmeter should read between...</b>
Pin 3 of J3	ENTER	0 Vdc and 500 mVdc
Pin 7 of J3	STOP	0 Vdc and 500 mVdc
Pin 8 of J3	WORK LEVEL DOWN	0 Vdc and 500 mVdc
Pin 9 of J3	WORK LEVEL UP	0 Vdc and 500 mVdc
Pin 10 of J3	QUICK START	0 Vdc and 500 mVdc

7. If the voltage readings match those listed in Tables 6.1 and 6.2 and one or more keys do not function, replace the upper PCA.
8. If the voltage readings in Table 6.1 are incorrect, disconnect the keypad cable from the keypad connector and repeat the voltage measurements in 6.1. If the voltage readings are now correct, replace the display housing (keypad). If the voltage readings are still incorrect, replace the upper PCA.
9. If the voltage readings in Table 6.1 are correct and one or more voltage readings in Table 6.2 are incorrect, replace the display housing (keypad).
10. Set the circuit breaker in the "off" position.
11. If necessary, carefully re-connect the keypad cable to the keypad connector.
12. Remove the ground lead of the wrist strap from the treadmill frame, then remove the wrist strap from your arm.
13. Position the display enclosure on the display plate. Install the screws that secure the display enclosure to the display plate.
14. Check the operation of the treadmill as described in Section Three of this appendix.

## Procedure 6.3 - Display does not Illuminate (120 VAC Units)

### Warning

Hazardous voltages will be tested in the following procedures. Exercise extreme caution when performing these procedures.

### Note:

Unless otherwise specified the AC voltage referenced in the following procedures will be AC line voltage and should measure  $120 \text{ VAC} \pm 15 \text{ VAC}$ .

1. Remove the C844 line cord from the AC outlet. Using an AC voltmeter, test the AC wall outlet for AC voltage. If the AC voltage is incorrect or missing, check the AC service circuit breaker and/or AC service wiring.
2. Remove the AC line cord from the C844 AC input module. Using an ohmmeter, test the three line cord conductors for continuity. Each conductor should read  $1\Omega$  or less. If any of the three line cord conductors do not read correctly, replace the line cord.
3. Plug the AC line cord into the C844 AC input module. Plug the AC line cord into AC wall outlet. Using an AC voltmeter, check the AC voltage between the brown and blue wires on the AC input module. If the AC voltage is incorrect or missing, unplug the AC line cord from the AC wall outlet and remove the fuse from the AC input module. Using an ohmmeter, check the fuse for continuity. If the fuse does not read  $1\Omega$  or less, replace the fuse. Plug the AC line cord into the AC wall outlet, and test the operation of the C844.
4. Set the C844 on/off switch in the on position. Using an AC voltmeter, check between the blue and brown wires on the load side of the on/off switch (terminals 1 & 4). If the AC voltage is incorrect or missing, replace the on/off switch.
5. Using an AC voltmeter, check the AC voltage at pins 1 & 2 of plug P4 on the lower PCA. If the AC voltage is incorrect or missing check the wiring between the on/off switch and lower PCA.
6. Using an AC voltmeter, check the AC voltage at pins 8 & 9 of plug P5 on the lower PCA. If the AC voltage is incorrect or missing, replace the lower PCA.
7. Using an AC voltmeter, check the AC voltage at pins 2 & 5 of plug P5 on the lower PCA. The voltage should be approximately 9 VAC. If the voltage is significantly high, low or missing replace the stepdown transformer assembly.
8. If you have performed all of the previous tests and the green light emitting diode (LD1) on the lower PCA is not lit, replace the lower PCA.
9. Using a DC voltmeter, measure the voltage between TP1 (+) and TP2 (-) on the lower PCA. The voltage should measure  $6 \text{ VDC} \pm .25 \text{ VDC}$ . If the DC voltage is incorrect or missing, replace the lower PCA.

10. Using a DC voltmeter, measure the voltage between terminals 1 and 26 of the ribbon cable connector (J2) on the upper PCA. The voltage should measure  $6 \text{ VDC} \pm .25 \text{ VDC}$ . If the DC voltage is incorrect or missing, check the ribbon cable connections at the lower and upper PCA's. Check the ribbon cable for cut or frayed wires. If necessary replace the ribbon cable.
11. If the voltage in step 8 measured  $6 \text{ VDC} \pm .25 \text{ VDC}$  and the upper display is not illuminated, be sure that the U3 prom is correctly installed and firmly seated in its socket on the upper PCA. If the prom is correctly installed, replace the UPCA.
12. If you have performed all of the previous tests and have not been able to locate the trouble, call Precor customer support.

## Procedure 6.4 - Display does not Illuminate (240 VAC Units)

### Warning

Hazardous voltages will be tested in the following procedures. Exercise extreme caution when performing these procedures.

### Note:

Unless otherwise specified the AC voltage referenced in the following procedures will be AC line voltage and should measure between approximately 195 VAC and approximately 245 VAC.

1. Remove the C844 line cord from the AC outlet. Using an AC voltmeter, test the AC wall outlet for AC voltage. If the AC voltage is incorrect or missing, check the AC service circuit breaker and/or AC service wiring.
2. Remove the AC line cord from the C844 AC input module. Using an ohmmeter, test the three line cord conductors for continuity. Each conductor should read  $1\Omega$  or less. If any of the three line cord conductors do not read correctly, replace the line cord.
3. Plug the AC line cord into the C844 AC input module. Plug the AC line cord into AC wall outlet. Using an AC voltmeter, check the AC voltage between the brown and blue wires on the AC input module. If the AC voltage is incorrect or missing, unplug the AC line cord from the AC wall outlet and remove the fuse from the AC input module. Using an ohmmeter, check the fuse for continuity. If the fuse does not read  $1\Omega$  or less, replace the fuse. Plug the AC line cord into the AC wall outlet, and test the operation of the C844.
4. Set the C844 on/off switch in the on position. Using an AC voltmeter, check between the blue and brown wires on the load side of the on/off switch (terminals 1 & 4). If the AC voltage is incorrect or missing, replace the on/off switch.
5. Using an AC voltmeter, check the AC voltage at the output side of the input line filter. If the AC voltage is incorrect or missing, replace the input line filter.
6. Using an AC voltmeter, check the AC voltage at pins 4 & 7 of plug P5 on the lower PCA. If the AC voltage is incorrect or missing, replace the lower PCA.
7. Using an AC voltmeter, check the AC voltage at pins 2 & 5 of plug P5 on the lower PCA. The voltage should be approximately 9 VAC. If the voltage is significantly high, low or missing replace the stepdown transformer assembly.
8. If you have performed all of the previous tests and the green light emitting diode (LD1) on the lower PCA is not lit, replace the lower PCA.
9. Using a DC voltmeter, measure the voltage between TP1 (+) and TP2 (-) on the lower PCA. The voltage should measure  $6\text{ VDC} \pm .25\text{ VDC}$ . If the DC voltage is incorrect or missing, replace the lower PCA.
10. Using a DC voltmeter, measure the voltage between terminals 1 and 26 of the ribbon cable

connector (J2) on the upper PCA. The voltage should measure 6 VDC  $\pm$  .25 VDC. If the DC voltage is incorrect or missing, check the ribbon cable connections at the lower and upper PCA's. Check the ribbon cable for cut or frayed wires. If necessary replace the ribbon cable.

11. If the voltage in step 8 measured 6 VDC  $\pm$  .25 VDC and the upper display is not illuminated, be sure that the U3 prom is correctly installed and firmly seated in it's socket on the upper PCA. If the prom is correctly installed, replace the UPCA.
12. If you have performed all of the previous tests and have not been able to locate the trouble, call Precor customer support.

## Procedure 6.5 - The RPM Display is Incorrect

1. Plug the C844 line cord into an AC outlet and set the on/off switch in the on position. Use the "Quick Start" key to enter the manual program. Using a watch or clock as reference, pedal the bike at a rate of one revolution per second. The second window on the right of the display should indicate approximately 60 RPM. If the RPM reading is significantly high or low go to step 5. If the RPM reading is zero continue with step 2.
2. Rotate the flywheel so that the magnet mounted on the flywheel is 180° away from the reed switch mounted on the frame. Using a DC voltmeter, measure the voltage between pins 1 & 2 of P6 on the lower PCA. The voltage should read approximately 6 VDC. If the voltage is correct skip to step 3. If the voltage is significantly lower than 6 VDC, disconnect the P6 plug from the lower PCA. Measure the voltage at pins 1 & 2 of P6 on the lower PCA. If the voltage is still significantly lower than 6 VDC replace the lower PCA. If the voltage is correct with P6 disconnected, replace reed switch
3. Using a DC voltmeter measure the voltage between pins 1 & 2 of P6 on the lower PCA. Carefully rotate the flywheel. When the magnet (mounted in the flywheel) passes the reed switch (mounted on the frame) the voltage should toggle between approximately 6 VDC to approximately 0 VDC. After the magnet passes the reed switch, the voltage should toggle back to approximately 6 VDC.
4. If the voltage in step 3 does not toggle, remove the flywheel. Using a known good magnet, pass it near the reed switch. The voltage should toggle as described in step 3. If the voltage toggles, replace the magnet. If the voltage does not toggle, replace the reed switch. Test the C844 as in step 1, if the RPM reading is still 0, call Precor customer support. If the RPM reading is significantly high or low, proceed with step 5.
5. Incorrect RPM readings can result from either a weak magnet or a defective reed switch. There are no good test procedures to test for intermittent operation. The simplest procedure is to replace the magnet or reed switch one at a time and test the C844 operation. Replace either component as appropriate. If neither component corrects the problem, call Precor customer support.

## Procedure 6.6 - No or Incorrect Pedaling Resistance

1. If the display is not illuminated, go to Procedure 6.3 (120 VAC units) or Procedure 6.4 (240 VAC units).
2. Enter the “manual” program and set the work level at “level 10”. Pedal the bike and confirm that there is no resistance or that the resistance is abnormally low.

**Note:**

The C844 will time out and remove power from the magnets in a short period of time. Slowly rotate the flywheel while taking the magnet voltage reading (step 3) to ensure that the C844 has not timed out.

3. With the work level set at “level 10”, use a DC voltmeter to measure the voltage between terminals 1 & 2 of P3 on the lower PCA. The voltage should measure approximately 87 Vdc.
4. If the voltage is missing or significantly lower than 87 Vdc, continue with step 6.
5. If the voltage is approximately 87 Vdc, but there is no resistance, set the on/off switch in the off position. Use wiring diagram 5.2 on page 5-5 to verify that the magnets are correctly wired. If the wiring of one or more of the magnets is reversed, the resistance will not be correct.
6. Remove the P3 plug from the lower PCA and measure the voltage as in step 3. Perform the measurement on pins 1 & 2 of the P3 connector on the lower PCA. The voltage should measure approximately 87 Vdc. If the the voltage is missing or significantly low, replace the lower PCA. If the voltage is approximately 87 Vdc, continue with step 7.
7. One at a time remove the wiring from one of the four magnets. Using an ohmmeter, measure the resistance of the magnet. The resistance should be approximately 95Ω. If the resistance is significantly low, replace the magnet assembly. Using an ohmmeter, measure the resistance between each magnet terminal and frame ground. The resistance should be infinite. If the reading is not infinite, replace the magnet assembly.
8. Repeat the procedure in step 7 with each of the other three magnets.
9. If you have performed all of the previous tests and have not been able to locate the trouble, call Precor customer support.

## Procedure 7.1 - Replacing the Display Enclosure or Upper PCA

Anti-static kits (part number 20024-101) can be ordered from Precor.

### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

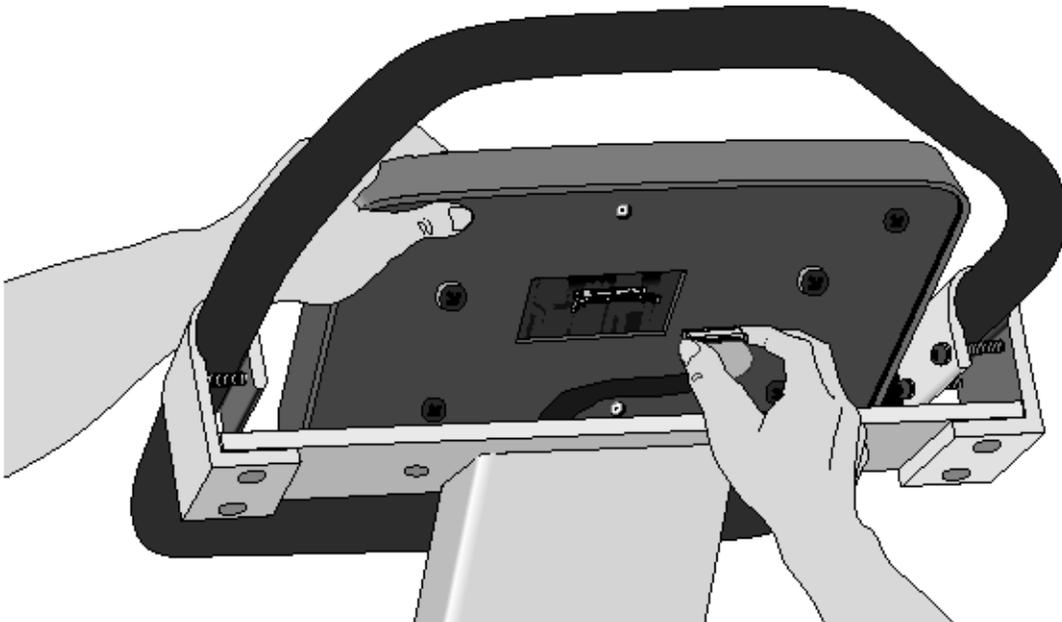
1. Remove the screws that secure the upper display module assembly to the upper frame member.

### CAUTION

When you perform the next step, tape the ribbon cable to the C844 Transport to prevent it from falling into the upper frame member.

2. Attach the wrist strap to your arm, then connect the ground lead of the wrist strap to the C844 frame.
3. Disconnect the ribbon cable from the upper PCA (see Diagram 7-1).
4. Remove the screws that secure the display enclosure to the display plate.(see Diagram 7-1)

### Diagram 7-1 Replacing the Display Enclosure or Upper PCA



5. If you are going to re-install the display enclosure without replacing the upper PCA . . .

**THEN . . .**

Skip to Step 9.

**OTHERWISE . . .**

Continue with the next step.

6. Carefully disconnect the keypad ribbon cable from the upper PCA.
7. Remove the screws that secure the upper PCA to the display enclosure. Set aside the defective upper PCA for eventual shipment to Precor Customer Support.

**Note:**

When you package the upper PCA, document the problem as described in Documenting Software Problems.

8. Position the upper PCA at its mounting location on the display enclosure. Install the screws that secure the upper PCA to the display enclosure.
9. Line up the blank place on the end of the keypad ribbon cable with the blank pin position on the keypad connector. Place a full twist in the end of the keypad ribbon cable, then carefully connect it to the upper PCA.
10. Connect the ribbon cable to the upper PCA.
11. Position the upper display module on the upper frame member. Install the screws that secure the display module to the upper frame member.
12. Remove the ground lead of the wrist strap from the C844 frame, then remove the wrist strap from your arm.
13. Position the display plate on the display enclosure. Install the screws that secure the display enclosure to the display plate.
14. Check the operation of the C844 as described in Section Four.

## Procedure 7.2 - Replacing the PROM

### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Remove the screws that secure the upper display module assembly to the upper frame member.

### CAUTION

When you perform the next step, tape the ribbon cable to the C844 to prevent it from falling into the upper frame member.

2. Attach the wrist strap to your arm, then connect the ground lead of the wrist strap to the C844 frame.
3. Disconnect the ribbon cable from the upper PCA.
4. Remove the screws that secure the display enclosure to the display plate.
5. Carefully disconnect the ribbon cable keypad from the connector on the upper PCA.
6. Remove the screws that secure the upper PCA to the display enclosure.

## Replacing the PROM

Keep the new PROM in its protective packaging until you are ready to insert it into the chip socket.

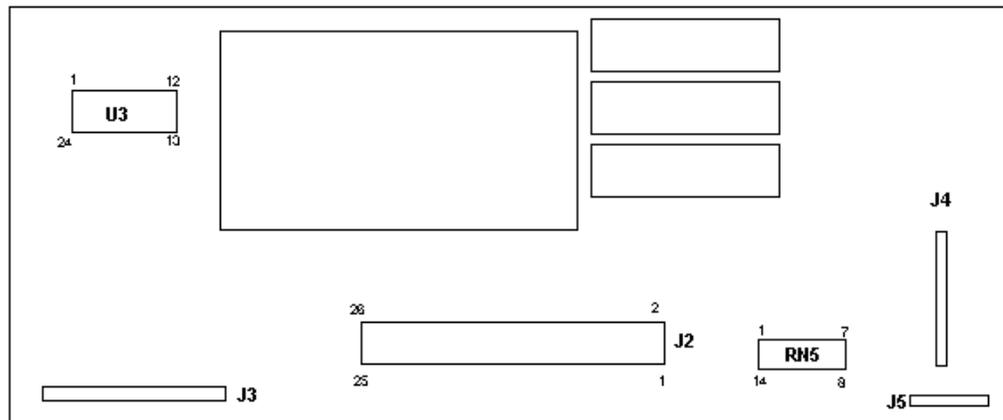
### Caution

Notice the orientation notch on the PROM (see Diagram 7-2). The new PROM must be positioned with the same notch orientation. Replacing the PROM backwards will destroy the PROM.

7. Using the chip puller, remove the PROM (U3) from the upper PCA.
8. Carefully insert the new PROM with the correct software version number in the chip socket. Take care not to bend the legs of the PROM.

### Note:

The software version number is labeled on the PROM.

**Diagram 7.2 Upper PCA Component Layout**

9. Position the upper PCA at its mounting location on the display enclosure. Install the screws that secure the upper PCA to the display enclosure.
10. Line up the blank place on the end of the keypad ribbon cable with the blank pin position on the keypad connector. Place a full twist in the end of the keypad ribbon cable, then carefully connect it to the to the upper PCA.
11. Connect the ribbon cable to the upper PCA.
12. Turn the display enclosure so that the display label is facing up.
13. Remove the ground lead of the wrist strap from the C844 frame, then remove the wrist strap from your arm.
14. Check the operation of the C844 as described in Section Four.
15. If the C844 operates correctly . . .

**THEN . . .**

Continue with the next step.

**OTHERWISE . . .**

Replace the upper PCA as described in Procedure 7.1.

16. Attach the anti static wrist strap to your arm, then connect the ground lead of the wrist strap to the C844 frame.
17. Remove the ribbon cable from the upper PCA.
18. Position the display plate on the display enclosure. Install the screws that secure the display enclosure to the display plate.
19. Connect the ribbon cable to the upper PCA.

20. Remove the ground lead of the wrist strap from the C844 frame, then remove the wrist strap from your arm.
21. Position the upper display module on the upper frame member. Install the screws that secure the display module to the upper frame member.
22. Check the operation of the C844 as described in Section Four.

## Procedure 7.3 - Replacing the Lower PCA

### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

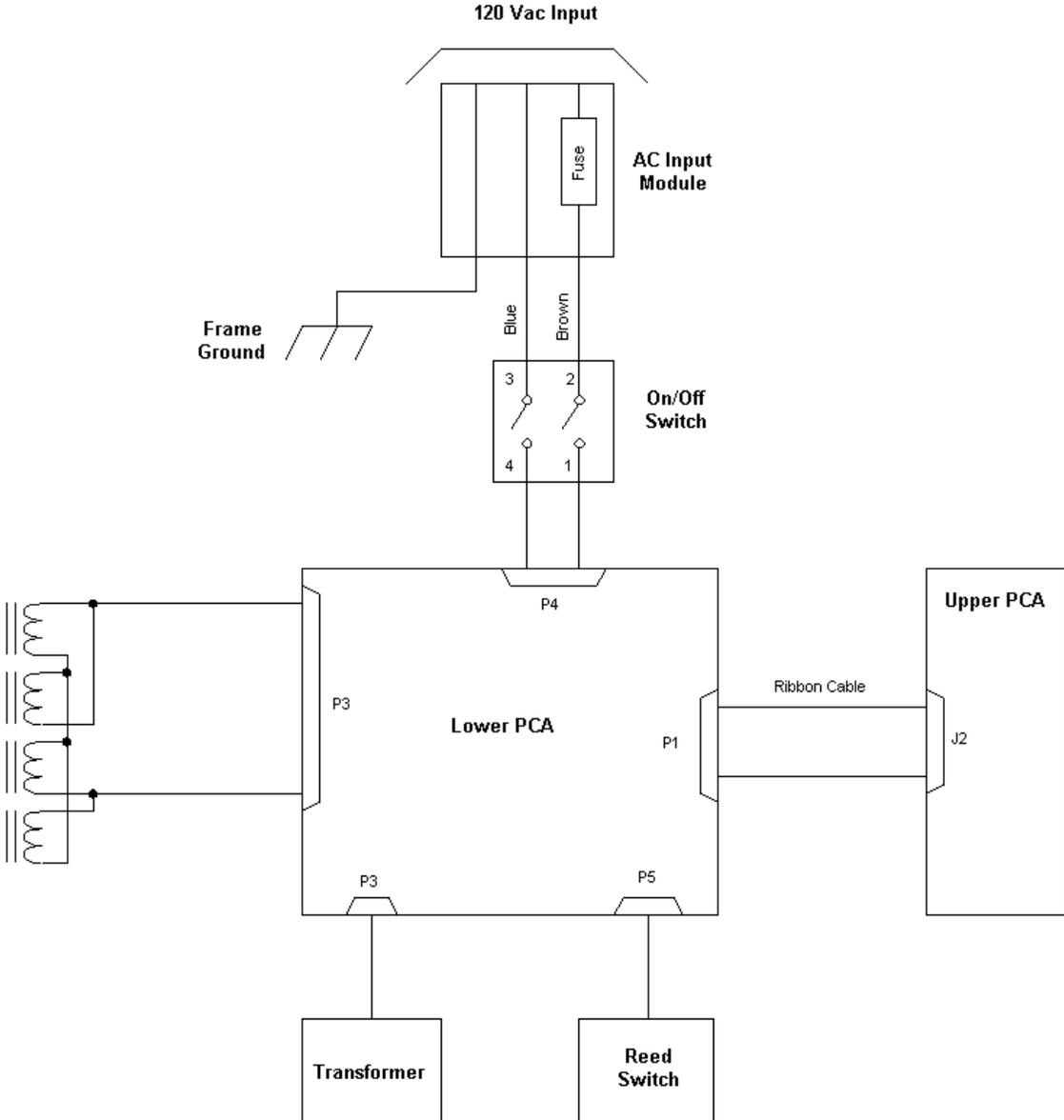
1. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
2. Attach the anti static wrist strap to your arm, then connect the ground lead of the wrist strap to the C844 frame.

### Note:

Refer to the wiring diagram shown in Diagram 7-3. Always mark all wires before disconnecting, to ensure quick accurate replacement!

3. Disconnect the cables from the lower PCA.
4. Remove the fasteners that secure the lower PCA to the cycle frame.
5. Hold the replacement lower PCA against the cycle frame. Install the fasteners that secure the lower PCA to the frame.
6. Connect the cables you disconnected in Step 3.
7. Remove the ground lead of the wrist strap from the C844 frame, then remove the wrist strap from your arm.
8. Install the pan on the base of the cycle. Return the cycle to its upright position.
9. Check the operation of the C844 as described in Section Four.

Diagram 7-3 C844 Wiring Diagram (120Vac Units)



## Procedure 7.4 - Replacing the ON/OFF Switch

### **WARNING**

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
2. Disconnect the wires that are connected to the ON/OFF switch.
3. Depress the mounting tabs and push the ON/OFF switch out of the base plate.
4. Position the new ON/OFF switch at its mounting location.
5. Connect the brown wire on the AC input module to terminal 2 of the ON/OFF switch.
6. Connect the blue wire on the AC input module to terminal 3 of the ON/OFF switch.
7. Connect the brown wire on the lower PCA to terminal 1 of the the ON/OFF switch.
8. Connect the blue wire on the lower PCA to terminal 4 of the the ON/OFF switch.
9. Install the pan on the base of the cycle. Return the cycle to its upright position.
10. Plug the power cord into the power entry module.
11. Check the cycle operation as described in Section Four.

## Procedure 7.5 - Replacing the AC Input Module

### **WARNING**

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
2. Remove the power cord from the AC input module.
3. Disconnect the brown and blue wires from the AC input module.
4. Remove the screw that secures the green ground wire to the cycle frame.
5. Depress the mounting tabs and push the AC input module out of the base plate.
6. Position the new AC input module at its mounting position.
7. Position the green ground wire at its mounting location. Replace the screw that secures the green ground wire to the cycle frame.
8. Connect the brown and blue wires disconnected in Step 3 to the AC input module.
9. Plug the power cord into the AC input module.
10. Install the pan to the base of the cycle. Return the cycle to its upright position.
11. Check the cycle operation as described in Section Four.

## **Procedure 7.6 - Replacing the Input Filter Assembly (240-Volt Units Only)**

### **WARNING**

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
2. Disconnect the wires that are connected to the input filter assembly.
3. Remove the fasteners that secure the input filter assembly to the cycle frame.
4. Position the new filter assembly at its mounting location.
5. Install the connectors that secure the filter assembly to the cycle frame.
6. Connect the wires removed in Step 2 to the new input filter assembly.
7. Install the pan on the base of the cycle. Return the cycle to its upright position.
8. Plug the power cord into the power entry module.
9. Check the cycle operation as described in Section Four.

## Procedure 7.7 - Replacing the Upper and Lower Ribbon Cables

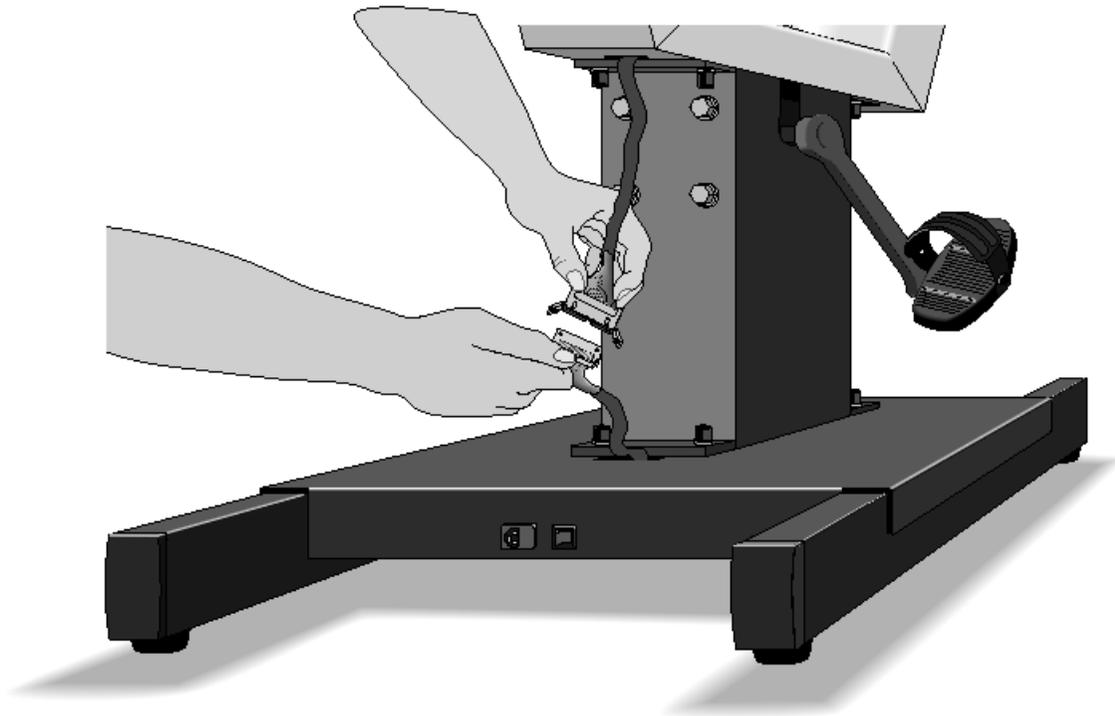
Before you install a new ribbon cable, ensure that the ribbon cable is defective as described in Procedure 6.1.

### **WARNING**

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Remove the upright covers from the pedestal weldment.
2. Disconnect the lower ribbon cable from the upper ribbon cable (see Diagram 7-5).

**Diagram 7-5 C844 Ribbon Cables**



3. Choose one:

**IF . . .**

You are replacing the upper ribbon cable

You are replacing the lower ribbon cable

**THEN . . .**

Continue with the next step.

Skip to Step 9.

### Replacing the Upper Ribbon Cable

4. Disconnect the ribbon cable from the upper PCA per Steps 1 through 3 of Procedure 7.1.
5. Tape the lower end of the **new** upper ribbon cable to the upper end of the **original** upper ribbon cable.
6. Pull the original upper ribbon from the bottom of the upright weldment. When the connector of the new cable clears the upright, disconnect and discard the original ribbon cable.
7. Connect the new upper ribbon cable to the upper PCA per Steps 10 through 13 of Procedure 7.1.
8. Choose one: If you are installing a new lower ribbon cable on the cycle . . .

**THEN . . .**

Continue with the next step.

**OTHERWISE . . .**

Skip to Step 13.

9. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
10. Disconnect the lower ribbon cable from the lower PCA.
11. Tape the upper end of the new lower ribbon cable to the lower end of the old lower ribbon cable. Pull the cable through the cycle frame.
12. Connect the new lower ribbon cable to the lower PCA.
13. Install the pan on the base of the cycle. Return the cycle to its upright position.
14. Connect the upper and lower ribbon cables to each other.
15. Install the upright covers on the pedestal weldment.
16. Check the operation of the cycle as described in Section Four.

## Procedure 7.8 - Replacing the Pedals

### **WARNING**

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Use an open-end wrench to remove the right pedal from the crank arm.

### **Note:**

The right pedal comes with reverse screw threads. When you remove the right pedal, turn the pedal connector clockwise.

2. Face the left side of the cycle. Use an open-end wrench to remove the left pedal from the crank arm.

### **Replacing the Pedals**

The pedals are marked with an R (Right) and an L (Left). When you replace the pedals, make sure that the new pedals are mounted on the appropriate side of the cycle.

3. Thread the right pedal connector counterclockwise onto the crank arm. Tighten the pedal connector.
4. Face the left side of the cycle. Thread the left pedal connector clockwise onto the crank arm. Tighten the pedal connector.
5. Check the operation of the cycle as described in Section Four.

## Procedure 7.9 - Replacing a Crank Arm

If you are removing a crank arm, do not remove the pedal unless the pedal is worn or damaged and must be replaced.

### **WARNING**

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Using the flat-head screwdriver, remove the crank axle dress cap.
2. Remove the bolt that secures the crank arm to the crank axle.
3. If you are removing a crank arm because it must be replaced with a new crank arm, remove the pedal from the crank arm as described in Procedure 7.8.
4. Place the crank arm on the crank axle.

### **Note:**

The right and left crank arms must be pointing in opposite directions

5. Replace the bolt that secures the crank arm to the crank axle. Torque to 45–50 inch-pounds.
6. Mount the pedal removed from the original crank arm on the new assembly as described in Procedure 7.8.
7. Check the operation of the cycle as described in Section Four.

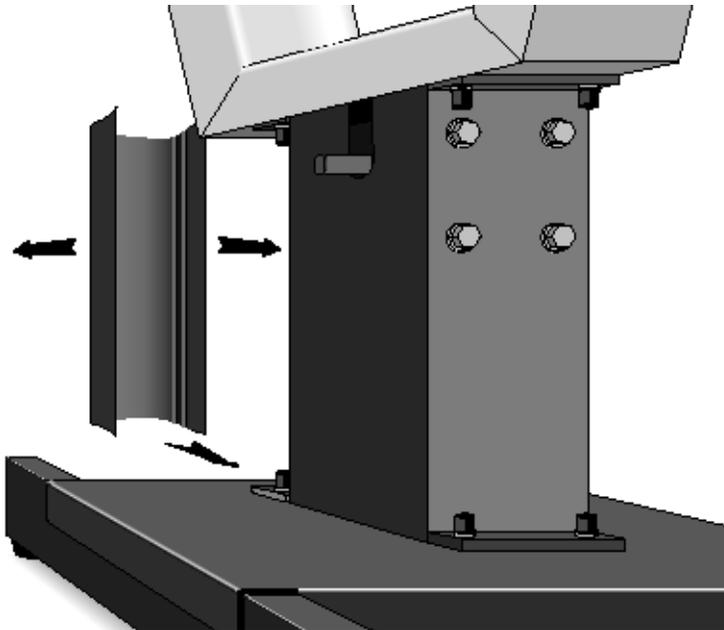
## Procedure 7.10 - Replacing the Gear Box

### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Remove the upright covers from the pedestal weldment (see Diagram 7-6).
2. Remove the crank arms as described in Procedure 7.9.
3. Disconnect the lower ribbon cable from the upper ribbon cable.
4. Remove the upper frame assembly.
5. Remove the bolts that secure the gear box to the pedestal weldment.
6. Pull the gear box out of the pedestal weldment. Set aside the square key.
7. Remove the rubber disk from the coupler. Remove the set screw that secures the coupler to the gear box.

**Diagram 7-6 Replacing the Gear Box.**



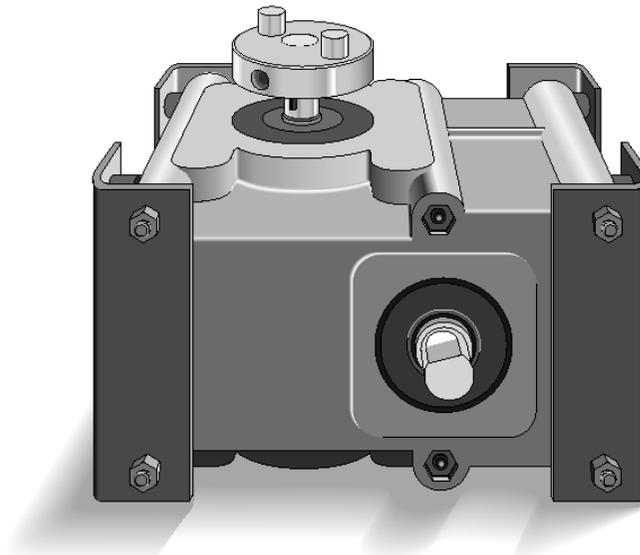
8. Position the coupler on the new gear box until the coupler is flush with the top of the shaft (see Diagram 7-7). Position the square key in the coupler. Replace the set screw that secures the coupler to the gear box. Push the rubber disk onto the coupler pegs.
9. Position the gear box in the pedestal weldment. If necessary, use a rubber mallet to position the gear box in the pedestal weldment.

**IMPORTANT**

When you position the gear box, the couplers must line up.

10. Install the bolts that secure the gear box to the pedestal weldment.
11. Inspect and adjust the gap between the upper and lower couplers as described in Procedure 5.3.
12. Replace the upper frame assembly.
13. Connect the upper ribbon cable to the lower ribbon cable.
14. Replace the crank arms as described in Procedure 7.9.
15. Install the upright covers on the pedestal weldment.
16. Check the operation of the cycle as described in Section Four. If operation feels rough, loosen the bolts that secure the pedestal weldment to the cycle frame (see Diagram 7-8). Pedal the cycle a few times. Tighten the bolts.

**Diagram 7-7 The Gear Box**



## Procedure 7.11 - Replacing the Flywheel

### **WARNING**

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
2. Remove the retaining ring from the flywheel shaft.
3. Pull the flywheel away from the flywheel axle.
4. Remove the square key from the key slot. Examine the key. If necessary, file the key smooth. Position the key in the new flywheel.

### **Note:**

Look at the position of the magnet relative to the flywheel hub. The magnet must be installed on the new flywheel in the same manner.

5. Remove the screws that secure the magnet to the flywheel. Mount the magnet on the new flywheel.
6. Place the key on the inside of the flywheel hub.
7. With the magnet facing the base of the cycle, slide the flywheel onto the flywheel shaft.
8. Using the snap ring pliers, replace the retaining ring on the flywheel shaft.
9. Inspect the gap between the flywheel and each of the magnet assemblies as described in Procedure 5.1.
10. Install the pan to the base of the cycle. Return the cycle to its upright position.
11. Check the cycle operation as described in Section Four.

## Procedure 7.12 - Replacing the Upper or Lower Couplers

### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Remove the upright covers from the pedestal weldment.
2. Disconnect the lower ribbon cable from the upper ribbon cable.
3. Remove the upper frame assembly.
4. Remove the bolts that secure the gear box to the pedestal weldment.
5. Pull the gear box out of the pedestal weldment.
6. Choose one:

**IF . . .**

You are replacing the upper coupler

**THEN . . .**

Perform Steps 7 and 8, then skip to Step 12.

You are replacing the lower coupler

Skip to Step 9.

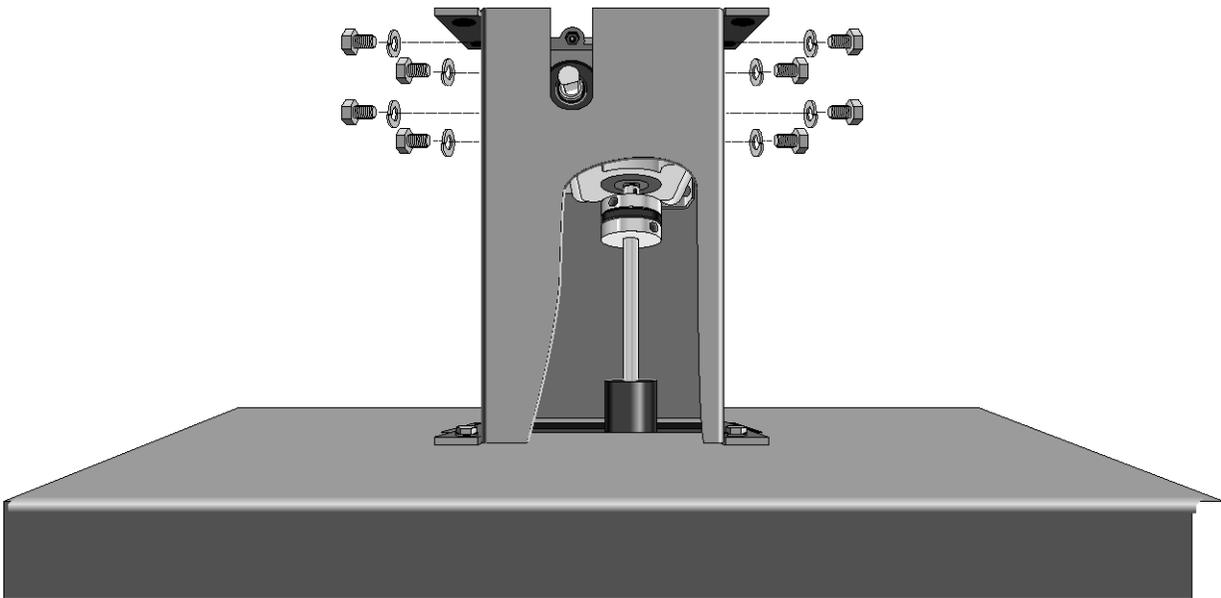
7. Remove the rubber disk from the coupler. Remove the set screw that secures the coupler to the gear box. Set aside the coupler. If necessary, remove the old loc-tite on the set screw.
8. Position the new coupler on the new gear box. Install the set screw that secures the coupler to the gear box. Push the rubber disk onto the coupler pegs.
9. Remove the set screw that secures the lower coupler to the cycle.
10. Remove the coupler and set screw from the flywheel shaft. Remove the coupler from the shaft.
11. Place a new coupler on the flywheel shaft. Position the key in the coupler hub. Install the set screw that secures the coupler to the flywheel shaft.
12. Position the gear box in the pedestal weldment. If necessary, use a rubber mallet to position the gear box in the pedestal weldment.

**IMPORTANT**

When you position the gear box, the couplers must line up (see Diagram 7-8).

13. Install the bolts that secure the gear box to the pedestal weldment.
14. Inspect and adjust the gap between the upper and lower couplers as described in Procedure 5.3.
15. Replace the upper frame assembly.
16. Connect the upper ribbon cable to the lower ribbon cable.
17. Install the upright covers on the pedestal weldment.
18. Check the operation of the cycle as described in Section Four. If operation feels rough, loosen the bolts that secure the pedestal weldment to the cycle frame (see Diagram 7-8). Pedal the cycle a few times. Tighten the bolts.

**Diagram 7\_8 The Upper and Lower Couplers**



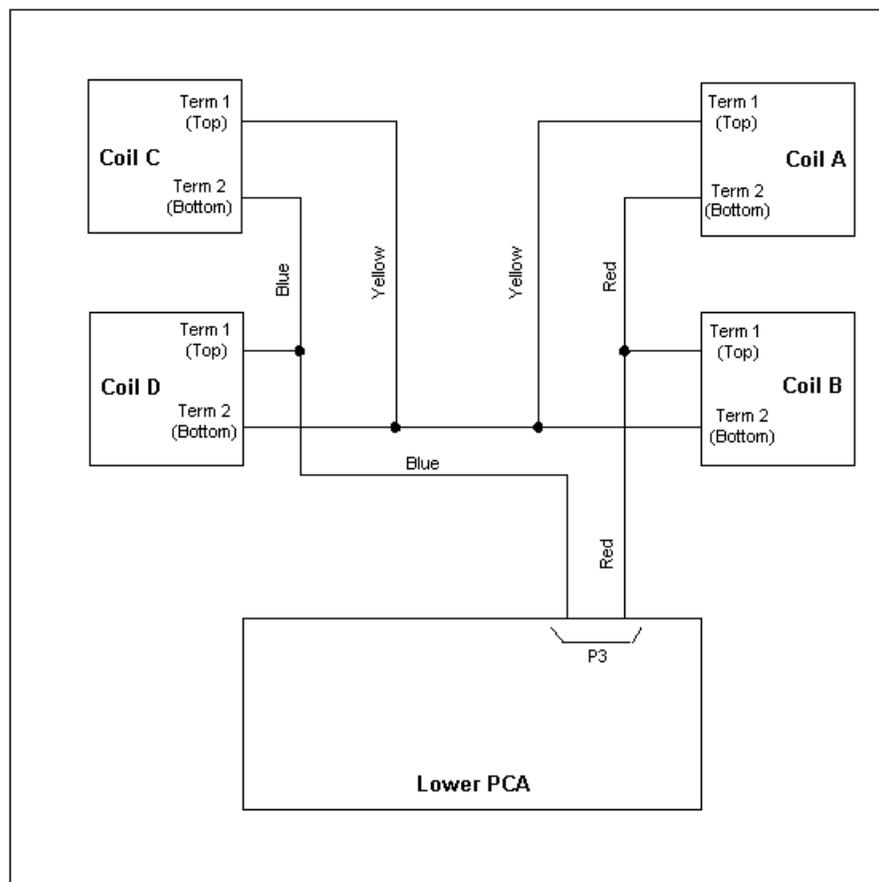
## Procedure 7.13 - Replacing a Magnet Assembly

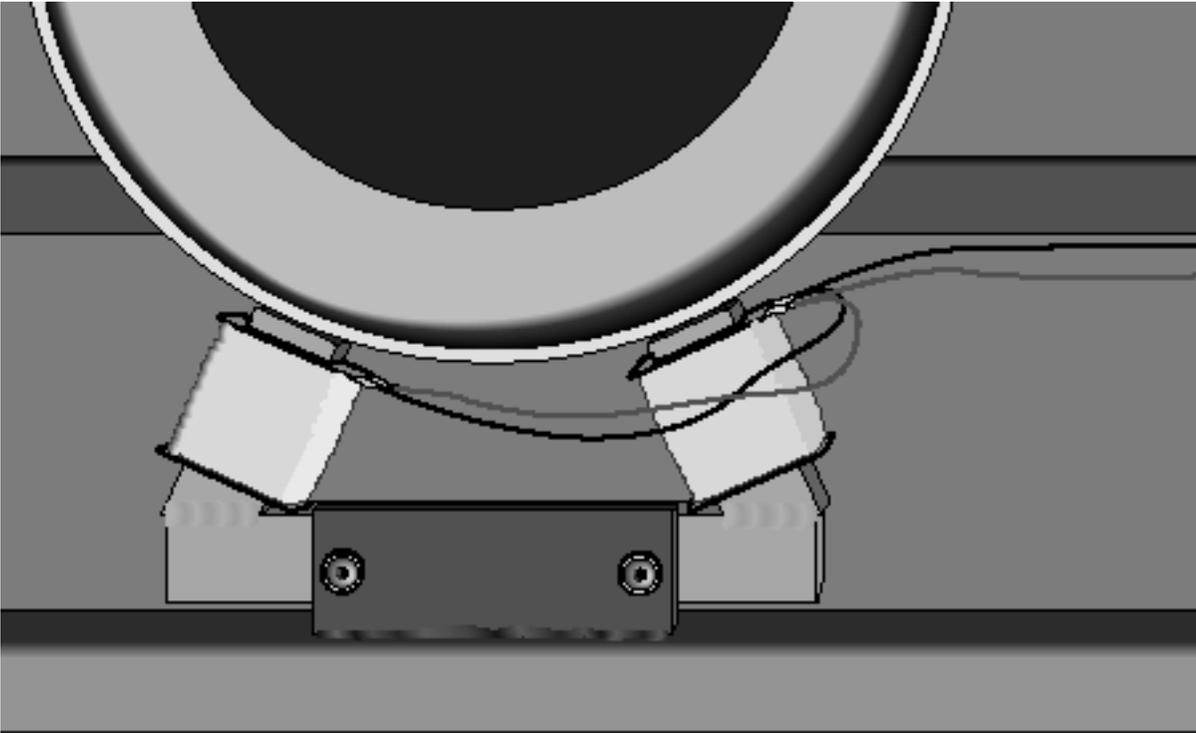
### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
2. Disconnect the magnet harness from the lower PCA (see Diagram 7-9).
3. Remove the screws that secure the magnet assembly to the frame (see Diagram 7-10).
4. Remove the magnet assembly from the cycle.

**Diagram 7-9 The C844 Magnet Cable Assembly**



**Diagram 7-10 Flywheel and Magnet Assembly**

5. Position the new magnet assembly on the cycle.

**Note:**

When you mount the magnet assembly, do not tighten the mounting hardware securely until you have adjusted the gap between the flywheel and the magnet assembly.

6. Lightly tighten the two screws that secure the magnet assembly to the cycle frame.
7. Inspect the gap between the flywheel and one of the magnet assemblies as described in Procedure 5.1.
8. Tighten the two screws that mount the magnet assembly to the cycle frame.
9. Connect the magnet harness to the lower PCA.
10. Install the pan to the base of the cycle. Return the cycle to its upright position.
11. Check the operation of the cycle as described in Section Four.

## Procedure 7.14 - Replacing the Transformer

### **WARNING**

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
2. Disconnect the transformer cable from the lower PCA.
3. Remove the screws (that secure the transformer to the cycle frame).
4. Remove the transformer from the cycle.
5. Position the new transformer on the cycle.
6. Install the screws that mount the transformer to the cycle frame.
7. Connect the transformer cable to the lower PCA.
8. Install the pan to the base of the cycle. Return the cycle to its upright position.
9. Check the operation of the cycle as described in Section Four.

## Procedure 7.15 - Replacing the Reed Switch

### **WARNING**

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Place the C844 Cycle on its front end. Remove the pan from the base of the cycle.
2. Remove the flywheel as described in Procedure 7.11.
3. Disconnect the reed switch cable from the lower PCA.
4. Remove the screws that secure the reed switch to the cycle frame.
5. Position the new reed switch against the cycle frame.
6. Install the screws that secure the reed switch to the cycle frame.
7. Connect the reed switch cable to the lower PCA.
8. Install the flywheel as described in Procedure 7.11.
9. Install the pan to the base of the cycle. Return the cycle to its upright position.
10. Check the operation of the cycle as described in Section Four.

## Procedure 7.16 - Replacing the Seat Detent Pin and Spring

### WARNING

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Pull and hold the detent pin out of the seat pin housing. Remove the seat post assembly and seat from the cycle frame.
2. Remove the label pressed into the knob.

### Caution

Hold the larger end of the detent pin against the inside of the seat column when you perform the next step. If the pin is not held securely, it will fall to the bottom of the seat column when you remove the screw.

3. With the detent pin held against the inside of the seat column, remove the screw from the knob. Remove the knob and set it aside. Remove the detent pin and spring from the top of the seat column.
4. Push the detent pin through the spring, then position the detent pin inside of the seat column. Push the smaller end of the detent pin through the mounting holes in the seat column and seat pin housing.
5. Hold the larger end of the detent pin and spring assembly against the inside of the seat column.

### :Note:

Keep the detent pin and spring assembly still held against the inside of the seat column while you perform the next step.

6. Place the knob on the smaller end of the detent pin. Install the screw that secures the knob to the cycle upright assembly. Release the detent pin.
7. Press the dress cap into the knob.
8. Pull and hold the detent pin out of the seat pin housing. Lower the seat post assembly into the seat column. When the seat is at the proper height, release the detent pin.

### Not:e

Make sure that the detent pin is securely and fully positioned in the seat pin housing.

## Procedure 7.17 - Replacing the Handlebar Assemblies

### **WARNING**

Always turn off the C844 with the ON/OFF switch and unplug the power cord from the wall outlet before you service the cycle.

1. Remove the bolts that secure the handlebar assemblies to the handlebar clamps.
2. Remove the handlebar assemblies from the handlebar clamp.
3. Position a new handlebar assembly in a handlebar clamp. Make sure that the handlebar assembly reaches the middle of the clamp.
4. Replace the bolts that secure the handlebar assembly to the handlebar clamp.
5. Repeat Step 3 and 4 for the remaining handlebar assembly. Make sure that the handlebar assemblies meet in the middle of the clamp.