GX-2003 Calibration Station User Guide

RKI INSTRUMENTS

TURN ON

(A) **(B)** **(C)**
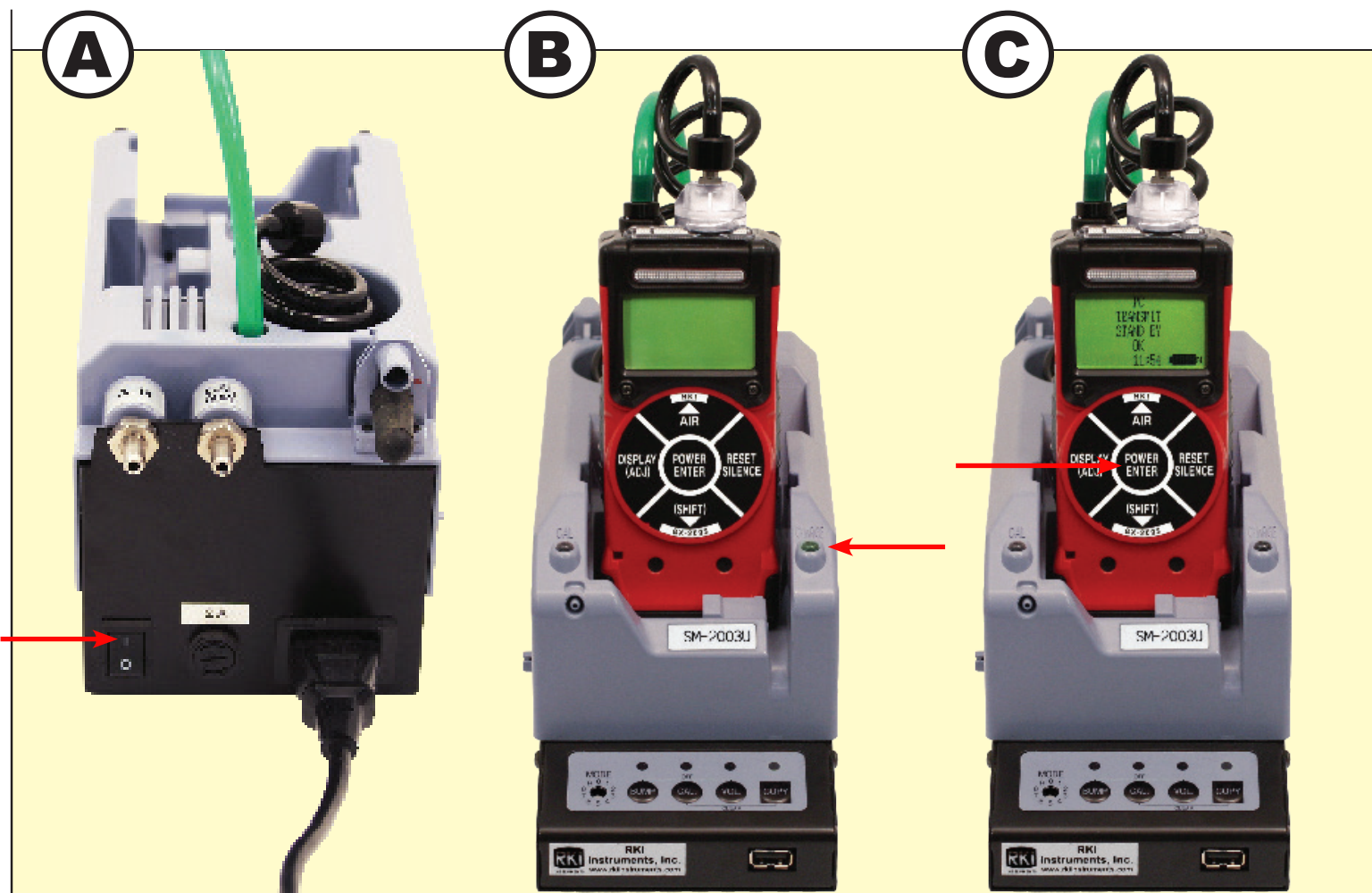
Turn Calibration Station On

Attach power cord to back of cal station. Press the power button at the back of the cal station to the on position.

Instrument Connected

Connect black coil tube to inlet fitting. Place GX-2003 into cal station. Connect green tube to instrument exhaust port.

Blinking red charge light means charging, green means charge is complete.

Turn Instrument On

Press and hold the power button on the instrument to turn on. Instrument will warm up and display will indicate PC TRANSMIT, STAND BY OK, and current date.

Setup: Connect in-line filter to air inlet. Attached demand flow regulator to calibration gas cylinder PN 81-0154RK. Connect 3" tubing from regulator to calibration gas inlet on SM-2003U. Connect exhaust tubing to exhaust port and route to fresh air area.

BUMP TEST

(A) **(B)** **(C)** **(D)**
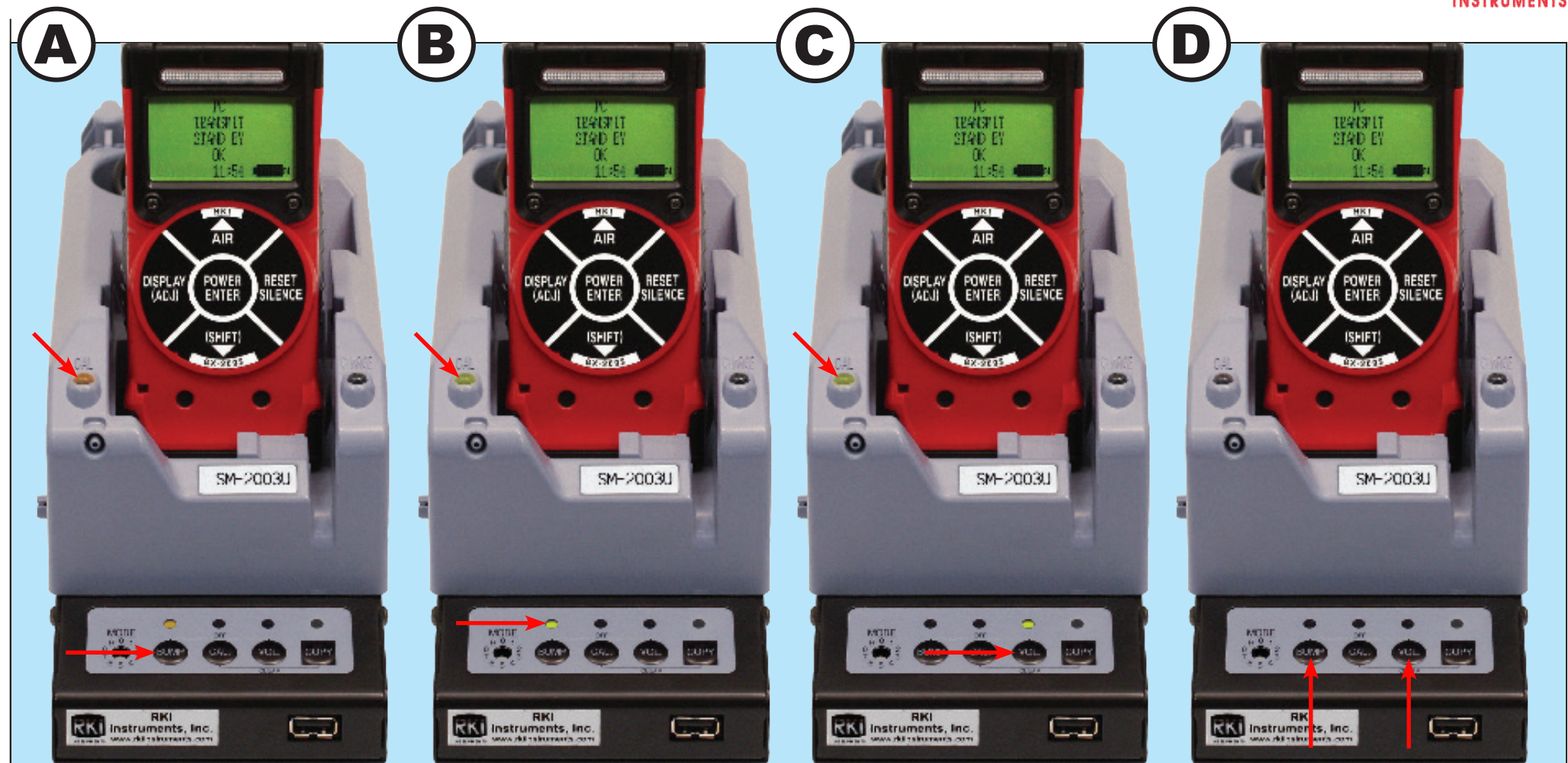
Bump Test Process

You will be ready to proceed with the bump test when CAL LED light is steady orange. Press and hold "BUMP" button until Bump LED flashes. Allow instrument to go through bump test process. CAL LED will flash yellow. Pump will turn on to begin bump test.

Note: If mode switch is set to calibrate if bump test fails, unit will automatically proceed with calibration. See manual for mode switch settings.

Bump Results

The CAL LED light and BUMP button LED will stop blinking and be on steady green if the bump test passed or steady red if the bump test failed.

% Vol. Bump Test

Remove the 4 gas cylinder and replace with 100% Vol. Methane cylinder. Press and hold "VOL". button on the cal station until green Vol. light comes on and then press "BUMP" button.

The CAL LED light and bump button LED will stop blinking and be on steady green if the bump test passed or steady red if the bump test failed.

Turning GX-2003 off

Simultaneously press and hold the BUMP and VOL buttons on the calibration station. Once the GX-2003 powers down, the instrument can be removed. For continued charging, leave the GX-2003 in the SM-2003U. Blinking red means charging, green means charge is complete. Power down the calibration station using toggle power switch on back.

Warning: Do not remove the GX-2003 before turning it off, and do not use the GX-2003's power button to power it down.

CALIBRATION

(A) **(B)** **(C)** **(D)** **(E)**
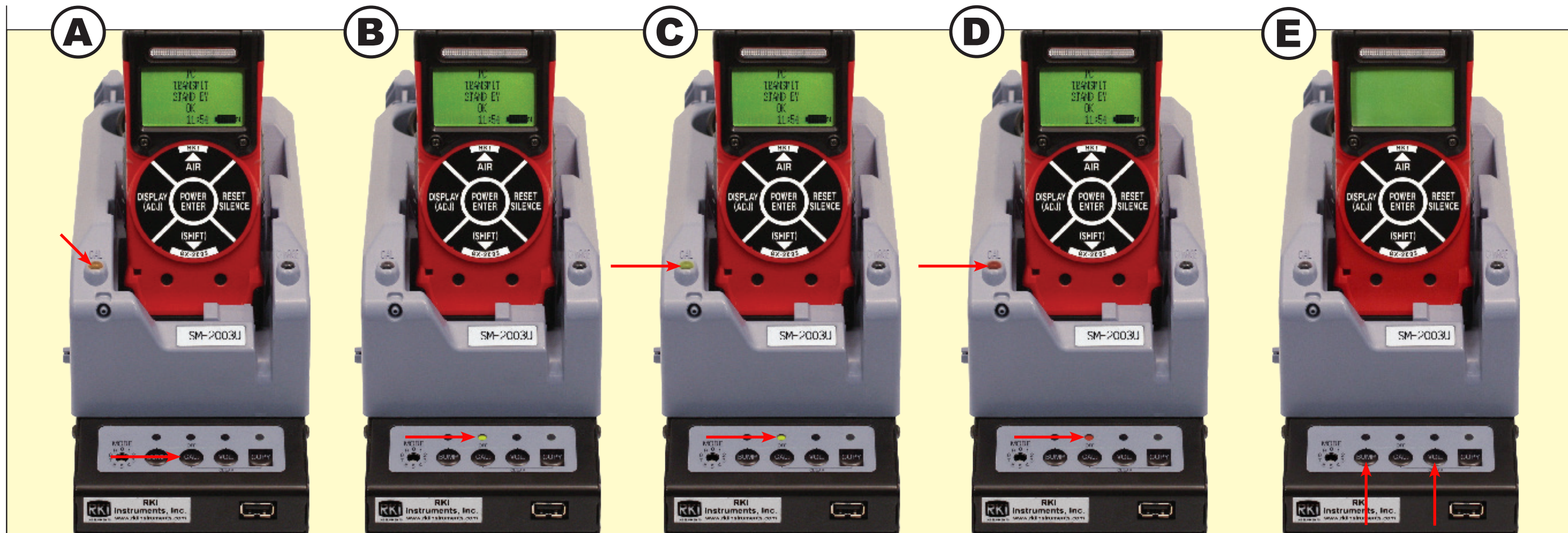
Calibrate

Power Instrument on. After CAL LED light is steady orange, press the "CAL" button to start calibration.

Calibration Process

During calibration, the CAL button LED light will flash green. Typical calibration will take approximately 3 minutes. Light will blink green during process.

Calibration Pass

Once the calibration passes, CAL LED light will turn green. The CAL button LED light will also turn green.

Calibration Fail

If the calibrations fails, The CAL LED light and CAL BUMP button LED light will turn red. Download the data (see data transfer step) and view on computer to determine which sensor failed. Replace sensor and re-calibrate.

Turning GX-2003 Off

Simultaneously press and hold the BUMP and VOL buttons on the calibration station. Once the GX-2003 powers down, the instrument can be removed. For continued charging, leave the GX-2003 in the SM-2003U. Blinking red means charging, green means charge is complete. Power down the calibration station using toggle power switch on back.

Warning: Do not remove the GX-2003 before turning it off, and do not use the GX-2003's power button to power it down.

DATA TRANSFER

(A)

Data Transfer To USB Flash Drive

With USB flash drive installed and unit powered on, press and release the "COPY" button. The copy LED will become solid red while the records in the calibration station's memory are copied to the flash drive. In addition, the flash drive's LED will begin to blink.

When the LED stops blinking and turns green, the copy operation is complete. Remove the flash drive from the USB port. Transfer data to PC with calibration station software, following the instructions in the operator's manual.

To clear the SM-2003U memory, press and hold "CAL" and "COPY" button simultaneously. It is recommended to clear the memory after data is transferred.

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