

# Balcrank®

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## Inline Electronic Control Handle

Control Handle Models Are  
Factory Set in Quart Units

Model #3330-091  
Rigid Extension

3330-092  
Flex 90 Extension

3330-093  
Flex Extension

3120-042  
In-Line Meter



Thoroughly read and understand this manual before  
installing, operating or servicing this equipment.

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Operation, Installation,  
Maintenance and Repair Guide

## GENERAL SAFETY



### Caution:

- 1) Always read and follow the fluid manufacturers's recommendations regarding the use of protective eye wear, clothing, gloves, and other personal equipment.
- 2) Never alter or modify any parts of this product; doing so may cause damage and/or personal injury.



## IMPORTANT

Read these safety warnings and instructions in this manual completely, before installation and start up of the control handle.

It is the responsibility of the purchaser to retain this manual for reference. Failure to comply with the recommendations stated in this manual will damage the control handle and void factory warranty.



## WARNING

**DANGER:** Not for use with fluids that have a flash point below 100°F ( 38°C, examples: gasoline, alcohol). Sparking could result in an explosion which could result in death.



## WARNING

Always use the following Pressure Relief Procedure whenever shutting off, cleaning, or in any way checking or servicing the control handle:

- 1) Disconnect compressed air line or turn off power supply at the fluid pump.
- 2) Point the control handle outlet into a waste container and open trigger to relieve pressure.
- 3) Open any bleed-type supply air valves and fluid drain valves in the system.
- 4) Leave the drain valves open until you are ready to re-pressurize the system.



## WARNING

Do not place your hand or fingers over the dispensing nozzle and/or aim the nozzle at a person at any time. Personal injury may result.



## WARNING

Airborne particles and loud noise hazards.

Wear ear and eye protection.



## CAUTION

**Maximum Fluid Pressure 1000 PSI. Under no circumstances should the control handle be aimed at any person or your own body at anytime. Personal injury may result.**

## GENERAL

This electronic lube meter is designed specifically to dispense motor oils (S.A.E. 80-140), automatic transmission fluid, and antifreeze (Ethylene Glycol) solution. Perfect balance, lightweight, ruggedness, and comfortable grip make it the best choice for overhead reel systems.

The electronic register module can be programmed to dispense in pints, quarts, liters, or gallons and will totalize in liters or gallons. A calibration factor and unit of measure are programmed during factory test. A 5-digit liquid crystal display, accurate to the second decimal place, shows the exact amount of fluid dispensed.

## OPERATION

Depressing the ON/RESET button before each use resets the totalizer to zero. Squeezing the trigger handle dispenses the fluid.

The total amount of fluid dispensed from inventory can be checked periodically by depressing the TOTAL button. If the units dispensed are pints, quarts, or gallons, the totalizer will read in gallons. If the units dispensed are liters, the totalizer will read in liters.

## DISPLAY FUNCTIONS

### Sleep Mode

To extend battery life the display will go into "sleep" mode if it has not been used for 2 minutes. The display can be "woken" by pressing the ON/RESET button.

### Total Button

Pressing the TOTAL button will toggle the LC Display between the Batch and Total Displays. The Batch display can be reset, the Total display is not re-settable.

### On/Reset Button

If no data is shown on the LC Display, press the ON/RESET button, this will "wake" the display. The ON/RESET button is used to reset the Batch Total to zero.

### To Reset the Batch Display

Press the TOTAL button until the Batch display is shown. The Batch display can be reset to zero by pressing and releasing the ON/RESET button.

## DISPLAY FUNCTIONS cont.

### To Change Display Units

Hold the ON/RESET button down for 5 seconds. Release the ON/RESET button when the word "program" appears on the LCD. Press the ON/RESET button to toggle through the unit options, GL, Qt, Pt, & Lt. When the desired units have been selected press and hold the ON/RESET button until "program" disappears.

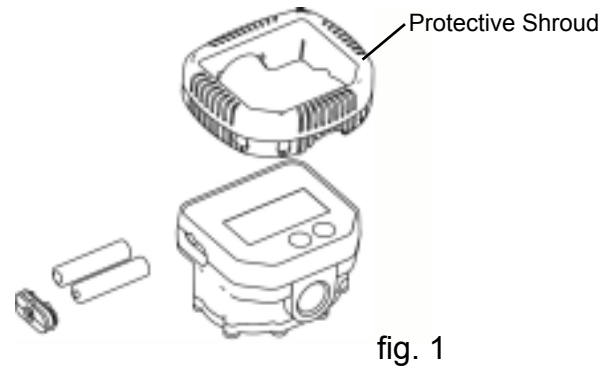
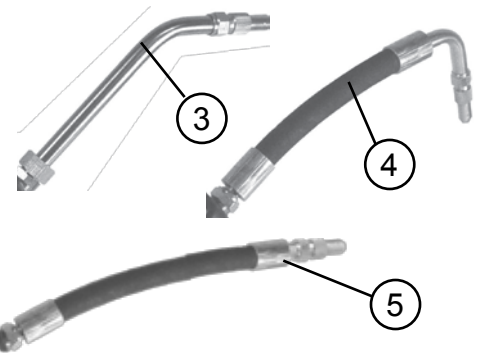
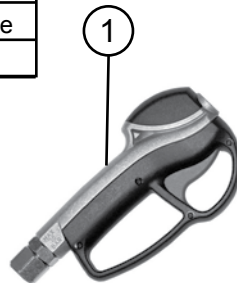
Units Selected	Batch Units	T o t a l Units
GL	GL	GL
Qt	Qt	GL
Pt	Pt	GL
Lt	Lt	Lt

### Note:

The ON/RESET & TOTAL buttons operate when released.

## PARTS LIST

ITEM	PART #	DESCRIPTION
1	829482	GRIP
2	832024	METER
3	832190	Rigid Lance
4	831789	Flex 90 Lance
5	832199	Flex Lance



## BATTERY REPLACEMENT

All data will be saved when the batteries are removed.

Note: Replace the batteries as soon as the battery indicator on the LCD is displayed.



- 1) Remove the protective shroud from the meter body. (fig. 1)
- 2) Using a flat bladed screw driver remove the battery cover.
- 3) Replace the 2 x(AAA) Alkaline batteries, see diagram on meter facia for correct battery orientation.
- 4) Replace the battery cover and re-fit the protective shroud.

Note: Use only quality Alkaline batteries.

## TROUBLESHOOTING GUIDE

TROUBLE	CAUSE	REMEDY
No fluid passing through the meter	A. Blocked strainer B. Dirt particles jamming the rotors C. Damaged plunger seal	A. Clean or replace strainer B. Dismantle meter assembly and clean C. Replace grip
The meter is not registering fluid output	A. Dead Battery B. Damaged Digital Meter	A. Replace battery B. Replace Digital Meter (item 2)
Constant oil leak from the tip	Damaged plunger seal	Replace lance
Intermittent drip from the tip	Dirt in the tip  Tip not closed	Remove the tip and blow out any dirt particles, replace if necessary Tip must be manually closed
Oil leak from the lever assembly area	Damaged seals	Replace grip handle (item 1)
Low flow rate	Blocked strainer	Replace strainer
Oil leaking from the swivel inlet	Damaged o-ring or swivel	Replace grip

## Revision Log:

Rev. A - revised handle  
Rev. B - added model

## Balcrank Lubrication Equipment Warranty Statement

All Balcrank equipment sold by authorized Balcrank distributors is warranted to their original customer to be free from defects in materials and workmanship for a period of one year from the date of sale to that customer. Selected Balcrank equipment carries warranty terms for a more extended period as defined in the Balcrank Lubrication Equipment & Accessories User Price List, wherein a "lifetime" warranty represents a warranty period of thirty years. Within the initial one-year warranty period, Balcrank will repair or replace all Balcrank equipment determined by Balcrank to have defective materials or workmanship. For equipment carrying more extended warranties, Balcrank will repair or replace the product including parts and labor during the first full year and will provide parts only for the remainder of the warranty period.

This warranty applies only to equipment installed and operated according to applicable Balcrank Service Bulletins and Installation Instructions.

Any equipment claimed to be defective must be returned, freight prepaid, to an Authorized Balcrank Service Center (ASC). Upon receiving candidate warranty equipment from a customer, ASC will: 1) diagnose to determine the warrantable condition of the equipment, 2) submit, prior to repair or replacement, a request to Balcrank for warranty authorization, then 3) in cooperation with Balcrank, proceed with repair locally or forward the equipment to Balcrank and obtain replacement. If the part(s) or equipment items are found defective upon inspection by Balcrank, they will be repaired or replaced, and then will be returned to the ASC. If Balcrank finds the claimed part(s) or equipment not to be defective, the ASC will receive written authorization from the original customer, and then repair them for a reasonable charge to the customer, which will include all applicable parts, labor, and return transportation costs.

Optionally, the customer may submit certain eligible products directly to Balcrank for warranty return by using Balcrank Lubrication Equipment Direct Service Warranty Procedure. Eligible products are defined in the Balcrank Lubrication Equipment & Accessories User Price List. Refer to the Balcrank web site [www.balcrank.com](http://www.balcrank.com) for a copy.

Any equipment returned to Balcrank must have the Warranty Service Claim number (WSC#) clearly marked on the outside of the carton. Balcrank's sole responsibility is for defects in material and workmanship, and Buyer's sole and exclusive remedy hereunder, shall be limited to repair or replacement of the defective part or equipment.

This warranty does not cover, nor shall Balcrank be liable for repair or replacement of parts or equipment resulting from general wear and tear through use, or damage or failure caused by improper installation, abuse, misapplication, abrasion, corrosion, insufficient or improper maintenance, negligence, accident, alteration, or substitution of non-Balcrank parts.

Furthermore, the Warranty for Lubrication Equipment and Accessories does not cover the following specific conditions:

- Failure or damage to equipment caused by dirt or debris in compressed air lines and fluid lines. This includes, but is not limited to, clogged inlet filters, strainers, or regulators; fluid meters; control handles; fluid tips; and valves.
- Failure of normal wear parts including but not limited to: o-rings, packings, seals and valves unless originally improperly installed by the factory.
- Products placed in applications for which their use was not intended. Examples include but are not limited to Lubricant pump being used to pump solvents, or placing equipment intended strictly for indoor use outdoors
- Damage to equipment resulting from operation above and beyond Balcrank's recommendations.
- Leaks at air and fluid fittings and connections.
- Damage caused by thermal expansion whenever adequate pressure relief was not included in the system.
- Loose suction tubes on pumps.
- Incorrect hose reel spring tension, requiring adjustment.

THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL BALCRANK BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, OR OTHER DAMAGES OF SIMILAR NATURE, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST PRODUCTION, PROPERTY DAMAGE, PERSONAL INJURY, WHETHER SUFFERED BY BUYER OR ANY THIRD PARTY, IRRESPECTIVE OF WHETHER CLAIMS OR ACTIONS, LEGAL OR EQUITABLE, FOR SUCH DAMAGES ARE BASED UPON CONTRACTS, WARRANTY, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE. ANY CLAIM OR ACTION FOR BREACH OF WARRANTY MUST BE BROUGHT WITHIN TWO (2) YEARS FROM THE DATE OF SALE TO THE ORIGINAL CUSTOMER.

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