

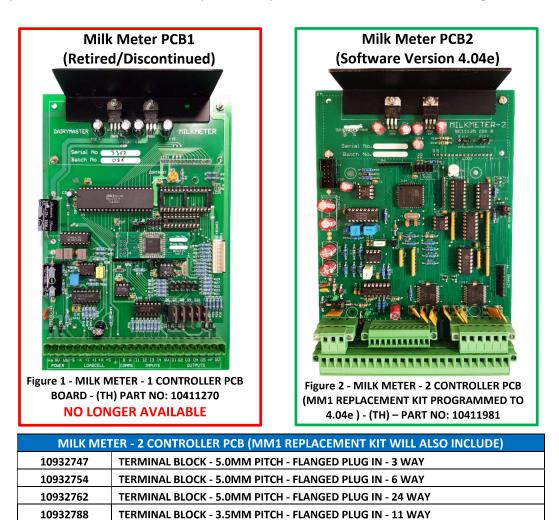
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Product: SWIFTFLO MILK METER SYSTEMS Description:. MILK METER PCB TYPE 1 NOTIFICATION OF DISCONTINUATION

TECH B:12135 Issued By: Global Technical Support Date: 01/03/2018 The Milk Meter PCB 1 has been discontinued. All replacement part orders for Milk Meter PCB's 1 will be fulfilled using Milk Meter PCB's 2.

These Retrofit Boards will come preprogramed with Version 4.04e.

Topics covered in this document do not include general installation practices i.e. the installation engineer is assumed to have the technical skill and knowledge to perform the installation neatly and safely and in accordance with local regulations



Milk Manager/Automation Compatibility Chart

	Milk Manager & Microcontroller Compatability check	
Milk Manager Version	Microcontroller Version & Code	
VERSIONS UP TO VERSION 1.12	UPGRADE TO MICROCONTROLLER 40WAY - 0 METER CHIP) TO VERSION 4.04E. PART NO: 10411973	D.6" PITCH - (MILK
VERSIONS ABOVE 1.12 MUST UPGRADE TO VERSION 1.18	PROGRAMMED MICROCONTROLLER 40WAY (MILK METER CHIP) V4.00 TO CURRENT VERSION. PART NO: 10411296	- 0.6" PITCH -



Important Notice: ONLY Milk Meter Equipped parlours, using MILK METER PCB1 that incorporates Auto ID or Milk Manager/PC Connections <u>MUST</u> have <u>ALL</u> existing microcontrollers on Existing Milk Meter Version 1 boards Upgraded to comply with Table 1. A Milk Manager Update may also be required.

Please Note: The correct quantity of these updated Microcontroller must be ordered with any replacement boards.

U3 & U2

If Present remove

Milk meter PCB1 Microcontroller EPROM update



Installation Note:

When placing the microcontroller Ensure the cut out on the microcontroller is on the same side as cut out on the board.

Always the ensure all pins are aligned before pushing the microcontroller onto its mount.

Older Installations will also need to have the chips in U3 & U2 Removed.

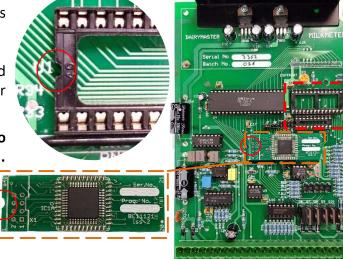
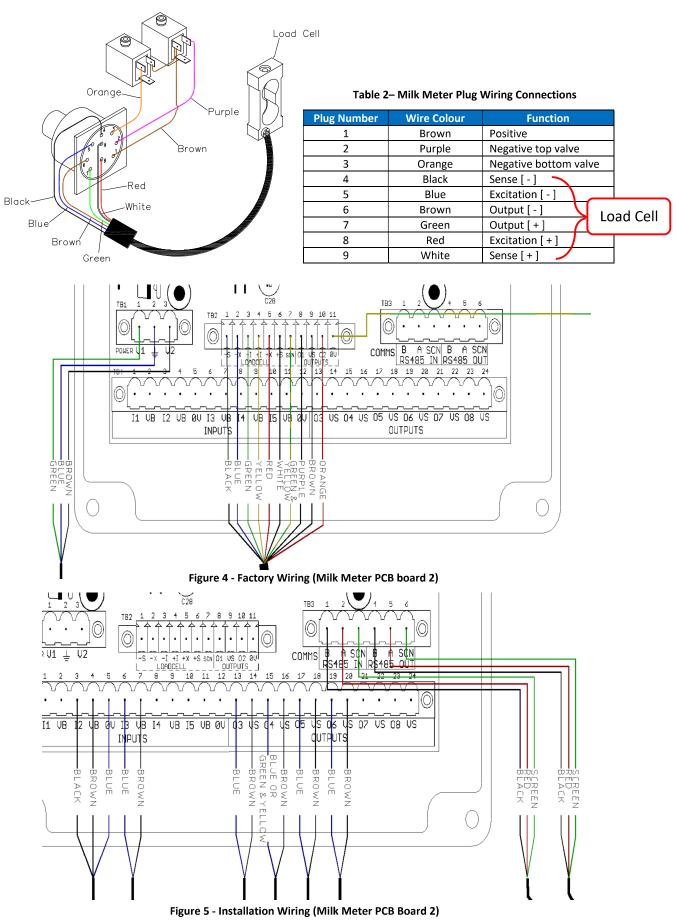


Figure 3 – Installing the Microcontroller

Upgrade EPROM Milk Meter board 1 to support single upgraded microcontroller:

To upgrade Weighall Milk Meter PCB1 the following changes are required:

- Link jumpers: J1, J6 and J7.
- Unlink jumpers: J2 (Cut track linking pin of J2 if present)
- Unlink jumpers: J8 (Cut track linking pins of J8 if present).
- 81C55 CHIP @ U4 which should already be there, no need to do anything with this.



Additional Wiring Information for installers:

Table 3 – Milk Meter PCB board 2 connections (TB1)

Connection Number [TB1]	Wire Colour	Function
1 (V1)	Green/Yellow	Positive [+] Board supply from transformer
2	Blue	Negative [-] (common) from transformer
3 (V2)	Brown	Positive [+] Solenoid supply from transformer

Table 4 - Milk Meter PCB board 2 connections (TB2)

Table 5 - Milk Meter PCB board 2 connections (TB3)

Connection Number [TB2]	Wire Colour	Function
1 (-S)	Black	Sense [-]
2 (-X)	Blue	Excitation [-]
3 (-I)	Green	Output [-]
4 (+I)	Yellow	Output [+]
5 (+X)	Red	Excitation [+]
6 (+S)	White	Sense [+]
7 (SCN)	Green & Yellow	Screen wire from Milk Meter cable
8 (O1)	Purple	Negative [-] top valve
9 (VS)	Brown	Meter solenoids [+]
10 (O2)	Orange	Negative [-] bottom valve
11 (0V)	Green/Yellow	Earth

Connection Number [TB3]	Wire Colour	Function
1 (B)	Black	Comms
2 (A)	Red	Comms
3 (SCN)	Screen	Screen
4 (B)	Black	Comms
5 (A)	Red	Comms
6 (SCN)	Screen	Screen

Table 6 - Milk Meter PCB board 2 connections

Connection	Wire Colour	Function	
Number [TB4]			
1 (I1)			
2 (VB)			
3 (12)	Black	Proximity switch / Limit switch left / ACR Smart Start Reed switch	
4 (VB)	Brown	Proximity / Limit switch / ACR Smart Start Reed switch [+]	
5 (0V)	Blue	Proximity switch [-]	
6 (13)	Blue	ACR float Switch	Where Present the Push
7 (VB)	Brown	ACR Float switch [+]	Button must be wired into
8 (14)			input 2.
9 (VB)			The Prox switch must be
10 (15)			wired into input 2 also.
11 (VB)			۱۲
12 (0V)			
13 (O3)	Blue	ACR RAM [-]	
14 (VS)	Brown	ACR RAM [+]	
15 (O4)	Green/Yellow or Blue	Diversion valve [milk mode] or Main Line Vacuum Shutoff [-]	
16 (VS)	Brown	Main Line Vacuum Shutoff [+]	
17 (05)	Blue	Diversion valve [divert mode] / Diversion line Vacuum Shutoff [-]	
18 (VS)	Brown	Diversion line Vacuum Shutoff [+]	
19 (O6)	Blue	Cow Retention [-]	
20 (VS)	Brown	Cow Retention [+]	
21 (07)	Blue	Cluster Cleanser Rinse [-]	
22 (VS)	Brown	Cluster Cleanser Rinse/Air [+] common	
23 (O8)	Green/Yellow	Cluster Cleanser Air [-]	
24 (VS)	Brown	Secondary Line [+]/Platform Teat Sprayer [+]	

For further information on this bulletin or any other issue please contact our technical support team at <u>technicalsupport@dairymaster.com</u> or by phone +353 66 7131124.