

Automatic Temperature Compensation (ATC) Troubleshooting

Note: The ATC option is available in Canada only.

Eliminating Common Problems

Check the following items. If the items listed are working properly, continue to troubleshoot using the following tables.

Ask These Questions	Action	Event
Is power on to ATC Controller?	Look on ATC controller board	CR44 On
Is T-Meter communicating?	Look on ATC controller board	CR43 blinking
Are all fuel types programmed correctly?	Enter 302 on manager keypad and scan each meter	Fuel type will display in volume position on main display. (1-gas, 2-diesel)
Is temperature actively updated?	Select 303 and 600 modes	Temperature should change slightly
Is the correct software version loaded?	Select 500 mode	Software version displays in the money position of the main display.
Has ATC reset and/or Are fuel types correctly set?	When installing new system or new software.	100 displays in the PPU position of the main display.
Are ATC Controller and T-Meter properly synchronizing?	During power-up of a programmed system.	104 displays in the money position of the main display.

Troubleshooting ATC Errors

All 100 Error codes are displayed in the PPU position all other error codes display in the money position.

For This Problem	With This Error Code	Try These Solutions
Error code 100 flashes on the display during or before programming fuel types.	100	Set programming switch ON and program in all required fuel types. Set programming switch OFF and press F1 or F2.
Pulser failure occurs. Enter ATC "300" audit mode. Error code 100 flashes on display along with corresponding meter number.	Pulser failure and 100	Set programming switch ON and program all required fuel types. Set programming switch OFF and press F1 or F2.
Error code 101 flashes on the display at powerup.	101	1. Replace U2 (K94160-01) on ATC controller. 2. Replace ATC controller.
Error code 102 flashes on the display at powerup.	102	1. Replace U2 (K94160-01) on ATC controller. 2. Replace ATC controller.
Error code 103 flashes on the display. Small LED (CR43) on ATC controller is not flashing.	103	1. Make sure J307 is securely plugged into P307 on ATC controller. 2. Verify connections of spares 3 and 4 in main conduit and in junction box. 3. Verify connection of I.S. Barrier connector P.I.S. to 10 position cable from T-Meter module. 4. Remove T-Meter module lid and verify connection of P201 on T-Meter board. 5. Replace ATC I.S. Barrier assembly. 6. Replace T-Meter Module. 7. Replace ATC controller board.
Error code 104 flashes on the display.	104	Normally occurs at powerup, should last for 10-15 seconds only. If error persists, replace T-Meter board.

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For This Problem	With This Error Code	Try These Solutions
Error Code 105 flashes on the display during use of ATC "200" inspection mode.	105	Multiple products have been sensed during 200 mode. Only a pure (0% or 100%) product can be dispensed at a time. Error code may sometimes occur due to meter jerk or air in the hydraulics. It is good practice to run about 20 liters on each hose to purge the system before inspection mode is used.
Pulser failure occurs. Enter ATC "300" audit mode. Error Code 107 flashes on display along with corresponding meter number.	Pulser Failure and 107	<ol style="list-style-type: none"> 1. On indicated probe, verify that probe connector is securely plugged in. 2. Replace indicated probe. 3. Replace T-Meter Board.
Pulser failure occurs. Enter ATC "300" Audit Mode. Error Code 108 flashes on display along with corresponding meter number.	Pulser Failure and 108	<ol style="list-style-type: none"> 1. On indicated probe, verify that probe connector is securely plugged in. 2. Replace indicated probe. 3. Replace T-Meter board.
Enter ATC "300" Audit Mode. Error code 109 flashes on display along with corresponding meter number.	109	Check fuel type programming. If meter locations are programmed which have no meter or probe, this error will occur.
Pulser failure occurs. Enter ATC "300" Audit mode. Error code 109 flashes on display along with corresponding meter number.	Pulser Failure and 109	<ol style="list-style-type: none"> 1. Replace pulser which corresponds to indicated meter number. 2. Replace T19438 pulser interface cable. 3. Replace ATC controller board.
Pulser failure occurs. Enter ATC "300" Audit Mode and no error code is displayed.	Pulser Failure	<ol style="list-style-type: none"> 1. Check proper connection of T19438 Pulser Interface cable. 2. Replace T19438 Pulser Interface cable. 3. Replace ATC controller board. 4. Replace pulser. 5. Replace Hydraulic Interface board. 6. Replace Pump Controller board. 7. Replace Main Regulator board.
"Pump handle up" error occurs at powerup and no pump handles are up.	Pump Handle Up	<ol style="list-style-type: none"> 1. Check proper connection of T19438 Pulser Interface cable. J101A and J101B may be reversed. 2. Replace T19438 Pulser Interface cable.
Transaction occurs, but data is not reflected in "300" Audit Mode. <i>Note: Conversion is still taking place.</i>		<ol style="list-style-type: none"> 1. Verify that Grade Select cable, R19665-G1 is plugged into P105 of Hydraulic Interface and P305 of ATC controller. 2. Replace R19665-G1.
Transaction occurs, but no data is shown in "200" Audit Mode. <i>Note: Conversion is still taking place.</i>		<ol style="list-style-type: none"> 1. Verify that Grade Select cable, R19665-G1 is plugged into P105 of Hydraulic Interface and P305 of ATC controller. 2. Replace R19665-G1.
Modular keypad is not recognized.		<ol style="list-style-type: none"> 1. Verify proper connections to P203A and P303 of ATC controller. 2. Replace R20146-G1 cable. 3. Replace R19023 Keypad cable. 4. Replace Modular keypad. 5. Replace ATC Controller board. 6. Replace Pump Controller board.
Main displays are blank.		<ol style="list-style-type: none"> 1. Verify proper connections to P304 and P204A of ATC Controller. 2. Check +5V on Main Regulator. If not present, replace Main Regulator Board. 3. Replace ATC Controller Board. 4. Replace Pump Controller Board.

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For This Problem	With This Error Code	Try These Solutions
Main display comes up with garbage on the display and the Modular keypad is not recognized.		<ol style="list-style-type: none">1. Verify proper seating of ATC EPROM (U2) in socket.2. Verify proper connection to P301 on ATC controller.3. Replace ATC software, K94160-01.4. Replace Regulator/Logic cable, R17995-G6.5. Replace ATC Controller board.6. Replace Pump Controller board.
Unit appears to power up okay but no ATC codes are seen flashing. Unit can be authorized to begin pumping but nothing happens.		Verify that ATC EPROM (U2) has been plugged into ATC controller.
Two-wire is shut down at the station only after ATC is connected.		Replace Pulser Interface cable, T19483. Make sure that proper version of this cable, blender or non-blender, is being used.