Operator's Quick Help
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For complete warranty, technical support, and additional product information, refer to your console’s Operator Manual.

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Console Operating Features

Display (showing operating mode - no alarms)

- Alarm Light - Red
- Warning Light - Yellow
- Power Light - Green

Blue (Maintenance Tracker) & White (Maintenance Report) keys available Version 27 and later.

MMDD, YYYY HH:MM XM
ALL FUNCTIONS NORMAL

Operating Keys
Alphanumeric Keys
Key Functions

Press to silence the alarm. This will not reset the display or disable any alarm functions.

Contractor plugs ID Key into TLS and presses the blue key to log in for a work session.

Press to select the system mode: Operating Mode, Setup Mode, Diagnostic Mode.

Press white key to print out the Maintenance Report if Maintenance History or Tracker is enabled.

Used to move back through Steps, Functions and Modes.

Press to select the various Functions within each Mode.

Press to generate the various reports.

Press to change to a different option than currently displayed.

Press to move to the next procedure within each function.

Press to advance the paper through the printer.

Press to select an option. Also to start leak tests.

Press to change to the next tank or sensor.

The period (.) is on key “1”. The decimal point (•) is on the Right Arrow key (►).

Select a character by successive presses of the key. Press once for “A”, Press again for “B”, again for “C” and a fourth time to enter a “2”.

The zero key has a space (❑), a hyphen (–) and the comma (,).

The Arrow keys are used to move the cursor left and right (as with this example) without changing the displayed character.
Automatic Reports

INVENTORY INCREASE REPORT

This report is generated after each delivery. It shows the volume of the tank contents before and after delivery and the difference between the two volumes, which is the amount delivered less any sales during the delivery period.

Depending on the system configuration, the report may also show the amount delivered taking into account changes in volume caused by temperature changes (TC NET INCREASE).

There will be a delay of at least four minutes between the end of the delivery and the printing of the report while the console waits for the fuel level in the tank to stabilize.

---

ADJUSTED DELIVERY REPORT (BIR Option)

During the delivery the TLS-350R is continuously monitoring any sales from the tank being delivered to.

Within 60 minutes after printing the Inventory Increase Report, the TLS-350R generates an Adjusted Delivery Report.

The TLS-350R adjusts the gross increase fuel volume by adding any fuel dispensed from that tank during the delivery.

If Temperature Compensation has been enabled the temperature compensated volume is also adjusted and will appear on the report.
Business Inventory Reconciliation (BIR Option)

The TLS-350R, in addition to accurately measuring the contents of each tank, also monitors the amount of fuel dispensed at the pumps. The volume of fuel dispensed is then compared with the fall in fuel level in the appropriate tank. This process is called reconciliation.

The results of the reconciliation process are available as Reconciliation Reports. These reports are available for each worked shift, for each day, or for any other specified period.

TO PRINT A RECONCILIATION REPORT
Press Mode until the display shows:

```
RECONCILIATION MODE
PRESS <FUNCTION> TO CONT
```

Press Function twice and Step, and the display will show:

```
DISPLAY AND PRINT REPORT TYPE: SHIFT
```

Press Print for a Shift Report.
Press Change, Enter and Print for a Daily Report.
Press Change twice, Enter and Print for a Periodic Report.
Press Mode 3 times to return to the Operating mode.
Variance Reports

If enabled in Setup Mode, you can generate daily, weekly, and/or periodic Delivery Variance Reports, Book Variance Reports, and Variance Analysis Reports. Also, you can display and print Variance Reports for all products, or for a specific product. (Refer to the Variance Reports paragraph in the Reconciliation section of the Operator’s Manual for complete report printing options, such as printing weekly or periodic reports.)

TO PRINT DELIVERY VARIANCE REPORTS

Press **Mode** until the display shows:

```
RECONCILIATION MODE
PRESS <FUNCTION> TO CONT
```

Press **Function** until the display shows:

```
DISPLAY AND PRINT DLV
PRESS <STEP> TO CONTINUE
```

Press **Print** to printout the daily Delivery Variance reports for all products.

TO PRINT BOOK VARIANCE REPORTS

Press **Mode** until the display shows:

```
RECONCILIATION MODE
PRESS <FUNCTION> TO CONT
```

Press **Function** until the display shows:

```
BOOK VARIANCE
PRESS <STEP> TO CONTINUE
```

Press **Print** to printout the daily Book Variance reports for all products.
**Variance Reports** (Continued)

**TO PRINT VARIANCE ANALYSIS REPORTS**

Press **Mode** until the display shows:

```
RECONCILIATION MODE
PRESS <FUNCTION> TO CONT
```

Press **Function** until the display shows:

```
VARIANCE ANALYSIS
PRESS <STEP> TO CONTINUE
```

Press **Print** to printout the daily Variance Analysis reports for all products.

---

**Maintenance Report**

Press the White (Maintenance Report) key on the front panel:

```
MAINTENANCE REPORT
PRESS <PRINT>
```

Press **Print** to print the default number of records (20), starting from the default (current) date; or you can press **Step** to enter a date from which to start printing records, then press **Step** to enter the number of records to print from the selected date (up to 70 records).
In-Tank Leak Test Report

Press Function until the display shows:

Press Print to generate a report for all tanks.

Press Step and Tank to select the desired tank then Print to generate the report.

Inventory Report

Press Print for a complete inventory report for all tanks.

To display the inventory information from each tank, press Function until the display shows:

Press Step and the system will display the fuel volume for the first tank.

Press Step to view other in-tank information.

Press Tank to select a different tank.

Press Print to print the report.
**Last Shift Inventory Report**

- MMM DD, YYYY HH:MM XM
- ALL FUNCTIONS NORMAL

Press **Function** until the display shows:

**LAST SHIFT INVENTORY**
**PRESS <STEP> TO CONTINUE**

Press **Step** to select the shift and to display inventory data.
Press **Tank** to select a different tank.
Press **Print** to print the report.

**Inventory Increase Report**

- MMM DD, YYYY HH:MM XM
- ALL FUNCTIONS NORMAL

Press **Function** once and **Step** until you see the Delivery message (the last delivery amount):

**T1: REGULAR UNLEADED**
**DELIVERY = 2958 GALS**

Press **Tank** to select a different tank.
Press **Print** to print the delivery report for the tank shown.
Entering A Ticketed Delivery Volume (BIR Option)

The Delivery Maintenance function, if enabled in Setup Mode, lets you edit, view, and print information about ticketed deliveries (refer to the Delivery Maintenance section of the Operator's Manual for complete instructions and printing options).

Press **Function** until the display shows:

```
 MMM DD, YYYY HH:MM XM
 ALL FUNCTIONS NORMAL
```

Press **Function** until the display shows:

```
DELIVERY MAINTENANCE
PRESS <STEP> TO CONTINUE
```

Press **Step** until the display shows:

```
SELECT: EDIT/VIEW
T1: (product)
```

Press **Tank** until the desired product is visible in the display. If necessary, press **Step** until the date/time of the delivery appears. Press **Print** to print out a copy of that ticketed delivery (Notice that the ticket volume equals 0 on the printout). Press **Change**, then enter the delivered volume from the ticket using the number keys. Press **Enter** to confirm your choice. Press **Backup, Step and Print** to print out a copy of the revised report.
Mag Sump Sensor Leak Test Results

In the operating mode, press **Function** until the display shows:

**MAG SUMP LK TEST RESULTS**
**PRESS <STEP> TO CONTINUE**

Press **Step** to display the message:

**s1: MM-DD-YY   HH:MM XM**
**LAST PASSED TEST**

Press **Print** to printout the last passed Mag Sump Sensor leak test results.

Press **Step** to display the message:

**s1: SUMP 1**
**PRESS PRINT FOR HISTORY**

Press **Print** to printout the leak test history for this sensor which shows the last test results and the last passed test for each year, up to the last 10 years (if applicable).

Smart Sensor Status

Smart sensor status reports the status of the smart sensors connected to the Smart Sensor/Press or Smart Sensor Module and indicates if an alarm condition exists. To select smart sensor status, press **Function** until you display the message:

**SMART SENSOR STATUS**
**PRESS <STEP> TO CONTINUE**

To print a complete smart sensor status report, press **Print**. To view the smart sensor status for a particular sensor, press **Step** to display the message:

**s#: (Location)**
**(Status Indicator)**

If the sensor is functioning properly and no alarm conditions exist, the system displays the message SENSOR NORMAL.
Warnings And Alarms

The TLS console is constantly monitoring its probes and sensors for warning and alarm conditions, such as fuel leaks, excessively high or low fuel levels, and equipment problems.

When in the Operating mode and there is no warning or alarm condition active, the system displays the “ALL FUNCTIONS NORMAL” message.

If a warning or alarm condition occurs the system displays the alarm type and its location, either tank, input or sensor number.

The system prints an alarm report showing the warning or alarm type, its location and the date and time the warning or alarm condition occurred.

If more than one condition exists the console will flash the messages alternately.

WARNINGS
These indicate that an in-tank alarm is imminent or that a system fault has occurred.

ALARMS
Alarms indicate a potentially dangerous situation may have occurred.

WARNING! DO NOT IGNORE ALARMS! Know the alarm response procedures for your site.

To Switch Off All Warnings and Alarms
Press the red ALARM/TEST key to silence the alarm.

The front panel warning and alarm lights cannot be turned off until the cause of the condition has been rectified.

Similarly the warning and alarm displays remain until the cause of the condition has been rectified.

PLLD/WPLLD Alarm Information
For PLLD/WPLLD line leak detection alarms, refer to following manuals:
• PLLD/WPLLD Alarm Quick Help manual (P/N 577013-727)
• TLS-350/TLS-350R Operator’s Manual (P/N 576013-610)
In-Tank Warning And Alarm Levels

Single-Wall Tanks
- Full Volume
- Max (Label) Volume Limit
- High Level Limit
- Overfill Limit
- Delivery Limit
- Low Level Limit
- High Water Limit
- Water Warning Limit

Double-Wall Tanks
- Full Volume
- Max (Label) Volume Limit
- High Level Limit
- Overfill Limit
- Delivery Limit
- Low Level Limit
- High Water Limit
- Water Warning Limit
- Annular (Interstitial) Area
### In-Tank Alarms

<table>
<thead>
<tr>
<th>Event</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>T1: HIGH WATER WARNING</strong></td>
<td>Water collecting in the tank has exceeded the Water Warning level.</td>
<td>Close all pumps attached to this tank.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contact your VR Service Contractor for advice.</td>
</tr>
<tr>
<td><strong>T1: INVALID FUEL LEVEL</strong></td>
<td>Fuel and water level floats on the probe are too close together due to a lack of fuel in the tank.</td>
<td>Arrange a delivery.</td>
</tr>
<tr>
<td><strong>T1: DELIVERY NEEDED</strong></td>
<td>Fuel level in the tank is below the Delivery Needed level.</td>
<td>Arrange a delivery.</td>
</tr>
<tr>
<td><strong>T1: TANK TEST ACTIVE</strong></td>
<td>If enabled, the system will display this message when a tank test is in progress.</td>
<td>Do not deliver to or dispense from the tank being tested.</td>
</tr>
</tbody>
</table>
In-Tank Alarms  (Continued)

CAUSE: Fuel level in the tank has exceeded the Overfill Level during a delivery.
ACTION: Stop the delivery immediately!

CAUSE: Fuel level in the tank has dropped below the Low Product Alarm level.
ACTION: Arrange a delivery.

CAUSE: Fuel loss has exceeded the pre-programmed limit during a leak test in the tank. This indicates a possible leak.
ACTION: Contact your VR Service Contractor for advice.

CAUSE: Water at the bottom of the tank has exceeded the High Water Alarm level.
ACTION: Close all pumps attached to this tank. Contact your VR Service Contractor for advice.
In-Tank Alarms (Continued)

**MMM DD, YYYY HH:MM XM**  
**T1: SUDDEN LOSS ALARM**  
*(Flashing Yellow light)*  
**CAUSE:** Fuel loss in the tank has exceeded a pre-set limit during a Leak Test. This indicates a possible leak, fuel being dispensed or other unauthorized loss.  
**ACTION:** Check that fuel has not been dispensed from the tank during the test period. Contact your VR Service Contractor for advice.

**MMM DD, YYYY HH:MM XM**  
**T1: HIGH PRODUCT ALARM**  
*(Flashing Red light)*  
**CAUSE:** Fuel level in the tank has exceeded the High Product Alarm limit.  
**ACTION:** Stop the delivery immediately!

**MMM DD, YYYY HH:MM XM**  
**T1: MAX PRODUCT ALARM**  
*(Flashing Red light)*  
**CAUSE:** Fuel level in the tank has exceeded the Safe Working Capacity.  
**ACTION:** Stop the delivery immediately!

**MMM DD, YYYY HH:MM XM**  
**T1: PROBE OUT ALARM**  
*(Flashing Red light)*  
**CAUSE:** There is a fault with the sensing probe in the tank.  
**ACTION:** Contact your VR Service Contractor for advice.
In-Tank Alarms (Continued)

**CAUSE:**
A periodic in-tank leak test has not been successfully completed within the preset time period.

**ACTION:**
Schedule a 0.2 gph (0.76 lph) test.

**CAUSE:**
In-tank leak periodic (0.2 gph [0.76 lph]) test failed.

**ACTION:**
Rerun in-tank leak test. If second test fails, contact your VR Service Contractor for advice.

**CAUSE:**
An annual in-tank leak test has not been successfully completed within the preset time period.

**ACTION:**
Schedule a 0.1 gph (0.38 lph) test.

**CAUSE:**
In-tank leak annual (0.1 gph [0.38 lph]) test failed.

**ACTION:**
Rerun in-tank leak test. If second test fails, contact your VR Service Contractor for advice.
Liquid Sensor Alarms

**MMM DD, YYYY HH:MM XM**

**L1: FUEL ALARM**

*CAUSE:* The sensor has detected liquid in the sump being monitored.

*ACTION:* Investigate the cause of the alarm and take appropriate action.

**MMM DD, YYYY HH:MM XM**

**L1: SENSOR OUT ALARM**

*CAUSE:* The sump sensor has been disconnected or is faulty.

*ACTION:* Contact your VR Service Contractor for advice.

**MMM DD, YYYY HH:MM XM**

**L1: INTERSTITIAL ALARM**

*CAUSE:* The Interstitial Monitor for the tank has detected a change in the interstitial fluid level; a fuel leak may have occurred.

*ACTION:* Call a Service Contractor to check for fluid loss.
Dual-Float Discriminating Sensor Alarms

**CAUSE:** The sensor at the location shown has detected fuel vapor or liquid.

**ACTION:** Investigate the cause of the alarm and take appropriate action.

**CAUSE:** The sensor at the location shown has detected at least 8 inches of non-hydrocarbon liquid.

**ACTION:** Contact your VR Service Contractor for advice.

**CAUSE:** The sensor at the location shown has been disconnected or is inoperative.

**ACTION:** Contact your VR Service Contractor for advice.

**CAUSE:** The sensor at the location shown has detected at least 1 inch of non-hydrocarbon liquid.

**ACTION:** Contact your VR Service Contractor for advice.
Vapor Sensor Alarms

**MMM DD, YYYY HH:MM XM**

**V1: FUEL ALARM**

*(Flashing Red light)*

**CAUSE:** The vapor sensor has detected fuel vapor in the monitoring well.

**ACTION:** Investigate the cause of the alarm and take appropriate action.

**MMM DD, YYYY HH:MM XM**

**V1: SENSOR OUT ALARM**

*(Flashing Yellow light)*

**CAUSE:** The vapor sensor has been disconnected or is inoperative.

**ACTION:** Contact your VR Service Contractor for advice.

**MMM DD, YYYY HH:MM XM**

**V1: WATER ALARM**

*(Flashing Yellow light)*

**CAUSE:** The vapor sensor is immersed in water and will not work.

**ACTION:** Contact your VR Service Contractor for advice.

**MMM DD, YYYY HH:MM XM**

**V1: SHORT ALARM**

*(Flashing Yellow light)*

**CAUSE:** The vapor sensor is faulty.

**ACTION:** Contact your VR Service Contractor for advice.
Groundwater Sensor Alarms

**MMM DD, YYYY HH:MM XM**

**G1: FUEL ALARM**

(Caution: Red light)

**CAUSE:**
The groundwater sensor has detected fuel.

**ACTION:**
Investigate the cause of the alarm and take appropriate action.

**MMM DD, YYYY HH:MM XM**

**G1: SENSOR OUT ALARM**

(Caution: Yellow light)

**CAUSE:**
The groundwater sensor at the location shown is inoperative.

**ACTION:**
Contact your VR Service Contractor for advice.

**MMM DD, YYYY HH:MM XM**

**G1: WATER ALARM**

(Caution: Yellow light)

**CAUSE:**
The water level in the monitoring well shown is below the groundwater sensor (this may occur during periods of severe drought).

**ACTION:**
If the condition persists contact your VR Service Contractor for advice.

**MMM DD, YYYY HH:MM XM**

**G1: SHORT ALARM**

(Caution: Yellow light)

**CAUSE:**
The groundwater sensor at the location shown is inoperative.

**ACTION:**
Contact your VR Service Contractor for advice.
Vacuum Sensor Alarms

**MMM DD, YYYY HH:MM XM**

**s1: VACUUM WARNING**

(Flash Yellow light)

**CAUSE:** There may be a leak in the monitored interstitial space. There is a possibility that a No Vacuum alarm will be posted in the future.

**ACTION:** Find and repair vacuum leak then perform a Vac Sensor Manual Test (Diag Mode).

**MMM DD, YYYY HH:MM XM**

**s1: NO VACUUM ALARM**

(Flash Red light)

**CAUSE:** There is no vacuum in the interstitial space.

**ACTION:** Find and repair vacuum leak then perform a Vac Sensor Manual Test (Diag Mode).

**MMM DD, YYYY HH:MM XM**

**s1: COMMUNICATION ALARM**

(Flash Red light)

**CAUSE:** Hardware failure - sensor or interconnecting wiring to console.

**ACTION:** Contact your VR Service Contractor for advice.
Mag Sensor Alarms

**CAUSE:**
Monitored parameter exceeded preset threshold.

**ACTION:**
Contact your VR Service Contractor for advice.

**CAUSE:**
Monitored parameter exceeded preset threshold.

**ACTION:**
Contact your VR Service Contractor for advice.

**CAUSE:**
Hardware failure - sensor or interconnecting wiring to console.

**ACTION:**
Contact your VR Service Contractor for advice.

**Pump Relay Monitor Alarm**

**CAUSE:**
Pump continues to run after it was instructed to stop, or pump continuously running longer than preset time.

**ACTION:**
Contact your VR Service Contractor for advice.
PLL/D/WPLL Line Leak Detection Alarms

**CAUSE:**
3 gph (11.3 lph) line test failure. Dispensing halts, if programmed to do so, while the alarm is active.

**ACTION:**
Consult W/PLL Alarm Quick Help Guide and Pressure Line Leak Diag (Diagnostic Mode).

**CAUSE:**
0.2 gph (0.76 lph) test failure. Dispensing halts, if programmed to do so.

**ACTION:**
Consult W/PLL Alarm Quick Help Guide and Pressure Line Leak Diag (Diagnostic Mode).

**CAUSE:**
0.1 gph (0.38 lph) test failure. Dispensing halts, if programmed to do so.

**ACTION:**
Consult W/PLL Alarm Quick Help Guide and Pressure Line Leak Diag (Diagnostic Mode).

**CAUSE:**
System shut down line because of failed line leak test, or an alarm assigned to disable the line is active.

**ACTION:**
Identify offending alarm, and see Table 27-11, -12 in manual no. 576013-610 for corrective action.
System Status Messages

**MMM DD, YYYY HH:MM XM PAPER OUT**

CAUSE: The paper roll is empty.

ACTION: Replace paper (see Changing the Printer Paper).

**MMM DD, YYYY HH:MM XM PRINTER ERROR**

CAUSE: Either the printer release lever is in the down position, or the printer is inoperative.

ACTION: Check that the paper release lever is in the up position and, if necessary, contact your VR Service Contractor for advice.

**MMM DD, YYYY HH:MM XM BATTERY OFF**

CAUSE: The system backup battery has failed.

ACTION: Do not switch off power to the system. Contact your VR Service Contractor for advice.

**MMM DD, YYYY HH:MM XM SETUP DATA WARNING**

CAUSE: A system error has occurred.

ACTION: Contact your VR Service Contractor for advice.
To Start An In-Tank Leak Test

Press **Function** until the display shows:

![START IN-TANK LEAK TEST PRESS <STEP> TO CONTINUE]

To test individual tanks press **Step**, **Change**, **Enter** and **Step**. To test all tanks press **Step** twice and the display will show:

![TEST CONTROL: ALL TANKS TIMED DURATION]

To end the test manually press **Change**, **Enter** and **Step**; or to set a duration for the test press **Step**. Select the test accuracy, either 0.20 gal/hr or 0.10 gal/hr. To change the setting press **Change** and **Enter**. Press **Step** to continue. Enter the Test Duration in hours, press **Enter** and **Step**. The display will show:

![START LEAK TEST TANKS PRESS <ENTER>]

Press **Enter** to start the test. For individual tanks press **Tank** to go to the next tank.

---

- Do not start an in-tank leak test if there has been a delivery to the tank to be tested within the previous 8 hours. This will result in an invalid test.
- A delivery to a tank being tested results in an invalid test.
- Dispensing from a tank being tested will cause a Sudden Loss Alarm.
To Stop In-Tank Leak Testing

Press Function until the display shows:

STOP IN-TANK LEAK TEST
PRESS <STEP> TO CONTINUE

TO STOP SINGLE TANK TESTING

Press Step, Change, Enter and Step. The display will show:

STOP LEAK TEST: TANK X
PRESS <ENTER>

For individual tanks, press Tank to select the desired tank.
Press Enter to halt the test. The system confirms the ending of the test by displaying:

LEAK TEST NOT ACTIVE
PRESS <FUNCTION> TO CONT.

TO STOP TESTING ALL TANKS

Press Step twice. The display will show:

STOP LEAK TEST: ALL TANKS
PRESS <ENTER>

Press Enter to halt the test. The system confirms the ending of the test by displaying:

LEAK TEST NOT ACTIVE
PRESS <FUNCTION> TO CONT.
Pressurized Line Leak Detection Tests (PLLD Option)

TO START A PLLD TEST
In the Operating mode, press Function until the display shows:

START LINE PRESSURE TEST
PRESS <STEP> TO CONTINUE

Press Step and the display shows:

SELECT LINE
ALL LINES

Press Step to accept all lines. To select a single line, press Change until you see the line you want, then press Enter and Step. The display below appears:

SELECT TEST TYPE
3.0 GPH

This step lets you select 3.0, 0.2, or 0.1 gph line leak tests to run on the selected line(s). If your system does not have 0.2 or 0.1 gph test options, you will not see these selections.

To select 3.0 gph test, press Step, or press Change to select 0.2 or 0.1 gph tests, then press Enter.

To select the 3.0 gph test, press Step. The display shows:

3.0 GPH
PRESS <STEP> TO CONTINUE

To run the selected test, press Step. The system displays the message (in this example for all lines):

START LINE TEST: ALL LINE
PRESS <ENTER>

Press Enter to begin the test. The system displays:

QF: RUNNING PUMP
PRESS <STEP> TO CONTINUE

To exit this function, press Step.
TO STOP A PLLD TEST
In the Operating mode, press Function until you see the message:

STOP LINE PRESSURE TEST
PRESS <STEP> TO CONTINUE

Press Step. The system displays the message:

SELECT LINE
ALL LINES

Press Enter to stop the test on all lines, or press Change and the system displays the message:

STOP LINE TEST: LINE (#)
PRESS <ENTER>

Press Enter to stop the test on the line shown, or press Change until you see the line you want to select, then press Enter. The system stops the test and displays the status message:

Q# TEST ABORTED
PRESS <STEP> TO CONTINUE

TO PRINT ALL PLLD TEST RESULTS
In the Operating mode, press Function until you see the display below then press Print:

PRESSURE LINE RESULTS
PRESS <STEP> TO CONTINUE
Wireless Pressurized Line Leak Detection Tests (WPLLĐ Option)

TO START A WPLLĐ TEST

In the Operating mode, press Function until the display shows:

START LINE PRESSURE TEST
PRESS <STEP> TO CONTINUE

Press Step and the display shows:

SELECT LINE
ALL LINES

Press Step to accept all lines. To select a single line, press Change until you see the line you want, then press Enter and Step. The display below appears:

SELECT TEST TYPE
3.0 GPH

This step lets you select 3.0, 0.2, or 0.1 gph line leak tests to run on the selected line(s). If your system does not have 0.2 or 0.1 gph test options, you will not see these selections.

To select 3.0 gph test, press Step, or press Change to select 0.2 or 0.1 gph tests, then press Enter.

To select the 3.0 gph test, press Step. The display shows:

3.0 GPH
PRESS <STEP> TO CONTINUE

To run the selected test, press Step. The system displays the message (in this example for all lines):

START LINE TEST: ALL LINE
PRESS <ENTER>

Press Enter to begin the test. The system displays:

W#: TEST PENDING
PRESS <STEP> TO CONTINUE

To exit this function, press Step.
TO STOP A WPLL TEST
In the Operating mode, press Function until you see the message:

STOP WPLL LINE TEST
PRESS <STEP> TO CONTINUE

Press Step. The system displays the message:

SELECT LINE
ALL LINES

Press Enter to stop the test on all lines, or press Change and the system displays the message:

STOP LINE TEST: LINE (#)
PRESS <ENTER>

Press Enter to stop the test on the line shown, or press Change until you see the line you want to select, then press Enter. The system stops the test and displays the status message:

W#: TEST ABORTED
PRESS <STEP> TO CONTINUE

TO PRINT ALL WPLL TEST RESULTS
In the Operating mode, press Function until you see the display below then press Print:

WPLL LINE RESULTS
PRESS <STEP> TO CONTINUE
To Set The System Date

Press **Mode** until the display shows: SETUP MODE
PRESS <FUNCTION> TO CONT.

Press **Function**. If the system has a security passcode you will be asked to enter a six digit code:

Enter the code using the alphanumeric keys and press **Enter**. The display will show:

Press **Step** 4 times to display the date:

If the date is correct press **Step**, if not, press **Change** and enter the correct date. (Note that the month must be entered first.)

Press **Enter**, the new date will be displayed:
To Set The System Time

If the date is correct press **Step**.

The display will show:

```
SET TIME
TIME: 8:24 AM
```

If the time is correct press **Mode** twice to return to the Operating mode.

To change the time press **Change** and enter the correct time. Select either AM or PM by using the arrow keys.

Press **Enter** to confirm the time. The display will show:

```
TIME: 1:24 PM
PRESS <STEP> TO CONTINUE
```

If the time is correct press **Mode** to return to the Operating mode.
Changing The Printer Paper

The paper roll should be changed when a red stripe appears on the printouts.

A 4-roll pack of printer paper (Part Number 514100-210) is available from your Service Contractor.

Swing up the printer cover (1) and push the paper feed release lever (6) down. Notice the paper roll (3) and paper feed guide (4).

If the take-up spool (2) has been used, pull out the spool with the printed reports and tear off the paper close to the printer feed roller(5).

Pull out the take-up spool (2) and separate its two halves by pulling them apart. Remove the printed reports, but do not discard the reports as they may be required later.

Pull out the old paper roll (3) and any remaining paper.

Remove the roll shaft (7) and press it into the new roll (8).

Push the roll (8) into the lower slots in the printer with the paper tail (9) down and at the back.
Feed the paper tail (9) over the paper guide (4) and down behind the paper feed roller (5).

If using the Take-up Spool (2) place the paper tail (9) between the two halves and press them firmly together until you hear a click.

Push the Take-up Spool (2) into the upper slots. Rotate the spool counterclockwise until you remove all slack in the paper. (If the Take-up Spool is not going to be used, thread the paper tail through the slot (10) in the printer cover.)

Push the paper release lever (6) up and close the cover.