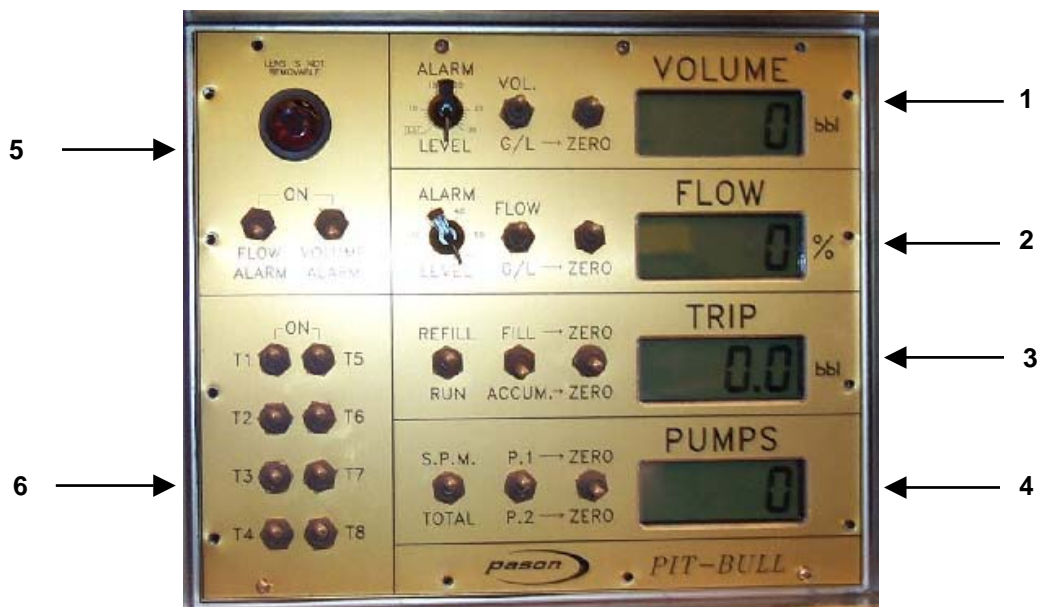
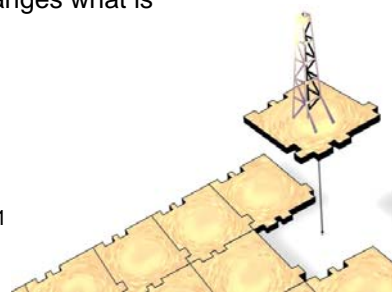


Pit Bull PVT (US) Quick Tips



1	VOLUME	<p>ALARM LEVEL – Set the alarm point to the desired level (0 to 30 bbls)</p> <p>TEST – Will cause the horn to sound</p> <p>VOL G/L – Switch “up” shows total volume; switch “down” shows gain/loss since last zero</p> <p>ZERO – Switch “down” to zero the gain/loss (when G/L is being displayed)</p>
2	FLOW	<p>ALARM LEVEL – Set alarm to the desired level (1.5% to 6.0%)</p> <p>Note: When making connections, the horn will automatically shut off when the flow reaches zero, removing the need to touch the horn ON/OFF switch.</p> <p>FLOW G/L – Switch “up” shows flow; “down” shows gain/loss since the last zero</p> <p>ZERO – Switch “down” to zero the gain/loss (when G/L is being displayed)</p>
3	TRIP	<p>REFILL/RUN – Switch “up” shows trip tank volume; switch “down” when filling the hole during tripping</p> <p>FILL/ACCUM. – Switch “up” shows the individual hole fill; “down” shows the accumulated hole fill</p> <p>ZERO/ZERO – Switch “up” to zero the individual hole fill; “down” to zero the accumulated hole fill</p> <p>Note: When the tank is being refilled during the trip, the REFILL/RUN switch must be in the REFILL position. The horn will sound three times when the tank level reaches the alarm point set up by Pason Systems</p>
4	PUMPS	<p>S.P.M TOTAL – Switch “up” for strokes/minute; “down” for total strokes</p> <p>P1 - P2 – Switch “up” for pump # 1; “down” for pump # 2</p> <p>ZERO/ZERO – Zeroes total strokes for each pump</p> <p>Note: The stroke counter continuously counts for both pumps at any one time, but only one pump is displayed at any one time.</p>
5	Large Red Light	<p>ON – Switch “up” to activate the horn for flow or volume. In the “down” position the light will flash, indicating one or both alarm horns have been shut off.</p>
6	Tank Switches	<p>ON – Switch “up” for each active tank</p>
Display of EDR Information on Rig Floor		<p>When connected with the Pason Pit Bull PVT system, some features of the EDR system can be viewed (and to some extent controlled) from the rig floor.</p> <p>To access this feature, follow these steps (from the DHC only):</p> <ol style="list-style-type: none"> 1. Select TOOLS, PVT SETUP. The PVT TRIP DISPLAY SETUP screen will open. 2. Selecting CHANGE on the TRIP DISPLAY SHOWS box changes what is displayed in the TRIP window of the PVT.



Pit Bull PVT (US) Quick Tips

Display of EDR Information on Rig Floor (continued...)

The options are as follows:

- **TRIP** – The PVT acts normally with a display of the trip tank volume.
- **WEIGHT ON BIT** – The PVT flashes “bit” in the TRIP window and the WOB in kdaN (the same number shows on the EDR).
- **PRESSURE** – The PVT flashes “SPP” in the TRIP window and the pressure in mPa (e.g., 15,600 kPa displays as “15.60”).
- **ROTARY RPM** – The PVT flashes “rot” in the TRIP window and the rotary speed.
- **PUMP 3 SPM** – The PVT flashes the pump speed of the third pump.
- **FILL STROKES** – The PVT flashes the strokes it takes to fill the hole during a trip.
- **DEPTH AID** – If **DEPTH AID** is selected, holding down the **ZERO** toggle switch by the **TRIP** window starts (On Bottom) or stops (Off Bottom) the depth tracking manually.

If **WEIGHT ON BIT**, **ROTARY**, or **PRESSURE** is selected, WOB may be zeroed from the floor by holding down the **ZERO** toggle switch beside the **TRIP** window for a second or two.

Hole Fill

Fill strokes counts strokes until the PVT flow rises above a set threshold. FILL STROKES resets to zero each time the pumps restart, so it counts the strokes to fill the hole each time the pumps are run. TOTAL FILL accumulates the FILL STROKE to fill during the entire trip sequence. To set up count strokes to fill, do the following from the DHC:

1. Press TOOLS then PVT SETUP. Toggle until the display shows FILL. This will allow the driller to see the number of strokes it takes to fill up the hole. FILL will be displayed in the TRIP window (3).
2. Press TOOLS, then HOLE FILL, and set the flow threshold, and zero the fill strokes.
 - FLOW THRESHOLDS represents the percentage flow reads when the computer stops counting fill strokes. The default is 4%.
 - FILL represents the number of strokes from the time the pump came on, until the flow percentage exceeds the flow threshold.
3. To view past FILL STROKES and TOTAL FILL, locate the traces on the DHC.

Note 1: Running pumps other than to fill the hole will cause the system to function improperly. Unplug the sensor to a pump if it must pump to roll the pits.

Note 2: Cumulative pump strokes on the PVT display continue to count all pump strokes. To see the CUMULATIVE STROKES TO FILL, look at the TOTAL FILL trace on the DHC.

Counting Strokes to Fill

To set count strokes to fill, follow these steps:

1. Trip the pipe.
2. Start the pump to fill the pipe.
3. The pump stroke for that fill will be displayed in the TRIP window (3), and on the DHC as FILL STROKES.
4. When FLOW exceeds the flow threshold, FILL STROKES will stop counting.
5. Stop the pump.
6. Trip more pipe.
7. Start the pump to fill the pipe.
8. The FILL STROKES display will be reset to zero and start counting.
9. When the flow percentage equals the flow threshold, the FILL STROKES displayed in the TRIP window will stop counting again.

