



Installation Tips

An SRE Bulletin on Making Your Installations Easier!

This application note explains how to wire and program a belly switch safety feature into a pallet truck or "walkie." A belly switch usually looks like a wide bar mounted on the end of the throttle handle. If an operator bumps the truck handle while going in reverse (and activates the belly switch), full-speed *forward* is engaged.

The belly switch (which from now on I'll call the "BB," after "bellybutton") works on both the SE175 and SE325, and is straightforward to install: connect two wires and enable the feature with a PB200.

1. Wire in the BB Switch

Connect one side of the BB switch to LIMIT 1 (white/brown wire) on the SE175/325 harness, and the other side to the switched side of the key switch.

2. Enable BB Feature with a PB200

The BB feature can only be turned on or off during the Auto Install routine with a PB200. Select `D: Install` and `A: Auto Setup`. Answer "yes" to the question "Do you want to use a belly switch?" when it pops up, heed the next screen's warning, and then answer "yes" to the confirmation screen after that. Whew! Go ahead and finish the rest of the installation.

Now you can fool around with the BB parameters. Start at `B: Customize`, choose `D: Setup`, `D: Other`, and then `B: Belly Sw`. There are four BB parameters to tweak: (A) time to full speed (basically your acceleration), (B) your top

speed when BB is hit, (C) BB plugging current, and finally, (D) the duration BB remains activated.

Explanation of the parameters: (A) Time to full speed is preset to 0.5 seconds and gives a quick recoil -- quite desirable unless you move fragile loads. (B) Belly speed is preset to 100% *forward*. Remember that BB is activated when the truck, going in *reverse*, hits the driver. **Confirm that your truck goes in the same direction as that selected, and that pushing the belly switch makes the truck move AWAY from the operator! You may have to swap your motor field connections.** (C) Plug strength is automatically set to 150% of the maximum plugging strength already programmed for the truck. This is stiff (i.e., leave a skid patch on the floor), but it'll give a quicker direction change. To help speed the direction change, the contactors are NOT cold-switched during BB. (D) Lastly, BB stays on for a preset 2 seconds; you might want to reduce this if you're working in tight spots (you run the risk of bumping something/someone else).

Important note: If you repeat the PB200 Auto Install the belly switch parameters will be reset to their default values.

That's all there is to it! If you have any questions, call SRE at 1-800-461-9338.

Revision History:

93-11-08 JIS -- Original Version.

94-09-15 RTA -- Update default values.