

# Hitachi -7 (Isuzu Engine) DEF Link Installation

## 1 – Shut Down Machine

Shut machine off and remove key. Wait 5 minutes, then turn off the night switch.

## 2 – DCU Diagnostic Plug Location

Plug the green and white wires into the stock 8-pin DCU diagnostic plug located on the outside rear of the cab, as shown in the photo below.



## 3 – Power Supply

Run a 5 amp 24-volt power supply from the battery relay located beside the batteries to the DEF Link box.

Before connecting:

- Use a multimeter to confirm power and ground.
- Ground will go to the machine frame.
- Power should come from the switched side of the 8 mm bolt on the battery relay.
- It will be one of the two larger posts on the battery relay.
- Use a meter to verify the switched power source.

Wire connections:

- Red wire = Positive (+)
- Black wire = Ground (-)



## 4 – Remove DCU Fuse

Remove Fuse #34 (20A – DCU) from the cab fuse panel as shown in the reference picture.

This fuse must remain out after installation. **Do not reinstall.**



## 5 – Key On and Verify DEF Level

Turn the key ON and wait for the monitor to display the DEF level.

The monitor should show 4 bars.



## 6 – Verify Monitoring Values

With key ON and engine NOT running:

To enter the Service menu:

1. Press and hold the “9” button.
2. While holding 9, press the round menu button.
3. Go to Service.
4. Select Monitoring.
5. Select the values shown in the reference pictures.

If the system is working correctly the readings should be approximately:

- **DEF Level: 45.6 %**
- **DEF Concentration: 32.75 %**



## 7 – Mount DEF Link Box

Mount the DEF Link box securely on the back of the cab using self-tapping screws.

- Mount with the plug facing downward.
- Mount in a location where the box will not be damaged.



# Important Notes

- Do not spray the DEF Link box directly with high-pressure water.
- Ensure power is connected to a keyed power source only.
- The machine will still perform a regeneration approximately every 30 hours. This is a normal operation.
- If engine codes unrelated to the DEF system appear, the monitor may display “DEF System Broken.”
- Check engine codes to verify the actual fault. Any active engine code will disable the DEF system and trigger a DEF system error.
- It is recommended to keep the DEF tank full to preserve the DEF header unit in case the machine is reverted to the stock system.