

## Service Information D820 / D827 Installing the 24-CH Headblock 1.050.403.00 with New Heads

### Introduction

The newly produced record heads for the 24-CH DASH machine have a higher efficiency. When exchanging the 24-CH Headblock (from 1.050.402.00 with the old heads against 1.050.403.00 with the new heads), **change the four Record Current Drivers** as well, to guarantee the correct magnetisation on tape.

**This modification concerns only the 24-CH DASH machines with the Headblock 1.050.403.00, marked with a read sticker!**

### Two different modification kits are available:

- Kit A for the fast maintenance engineer (20.050.863.30):
- Kit B for the experienced service engineer (20.050.863.35):

**Caution: Please note Headblock and the Record Current Drivers are electrostatic sensitive elements, take care of the necessary precautions.**

#### Kit A for the fast maintenance engineer:

The conversion kit (20.050.863.30) contains:  
1 pce. 10.27.3466 Service Instruction  
4 pcs. 1.863.713.00 Record Current Driver

#### Mounting Instruction:

After exchanging the Headblock, according to the instruction "Headblock Exchange" remove the 4 Record Current Drivers **1.863.716.81** and send them quickly back to Studer Regensdorf. Insert the 4 Record Current Driver **1.863.713.00** instead.

#### Kit B for the experienced service engineer:

The conversion kit (20.050.863.35) contains:  
1 pce. 10.27.3466 Service Instruction  
4 pcs. 57.11.3102 1 kΩ Resistor

#### Modification Instruction:

After exchanging the Headblock, according to the instruction "Headblock Exchange" modify the 4 Record Current Drivers **1.863.716.81** the following:

- exchange **on all 4** record current Driver the R39, (3k9Ω) with a 1 kΩ resistor (57.11.3102)
- Align the Ref. Voltage to 2.40V±0.01V measured on IC 1 (pin 1 = Gnd, pin 4 = Ref.)
- Change the label to **1.863.713.00**.

#### **Required Tools:**

- ESD (electrostatic Discharge) protection.
- Extender Board (64p) 1.228.324.81.

Check the erase current setting in the alignment menu "erase current". All 4 Aux Track (Cue 1, Cue 2, TC, RT) should read **FF** for all erase currents and check the overall performance in record.