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Dear Customer,

We are pleased that you have selected one of our products, and are sure it is the right decision if you value uncompromising sonic performance of your instrument. Delano products combine highest quality materials with an experience in building pickups and electronic circuits for musical instruments of over 30 years. As a result you receive a fine piece of craftsmanship containing outstanding features and modern improvements developed and manufactured by our small team of experts. As an owner of a Delano product you can be self-assured in the knowledge that you have the finest available.

This small brochure contains all required information for the installation of the enclosed Delano products, so please read the following instructions carefully. If you need more information please contact your authorized Delano dealer or get in touch with us directly.

Delano Pickup Systems, April 2018

Reinhard Jedamzik
Mounting of Delano two-section pickups

4-string bass: Every section is centered under the outer 2 strings.
- section a) is centered under the E-A strings
- section b) is centered under the D-G strings

5-string bass: Every section is centered under the outer 3 strings.
- section a) is centered under the B-E-A strings
- section b) is centered under the A-D-G strings
2-conductor cable wiring
For DELANO 2-conductor wired vintage pickups in passive operation

2 pickups (volume/volume/tone)

2 pickups (volume/balance/tone)

1 pickup (volume/tone)
Shielded 1-conductor cable wiring
For DELANO shielded 1-conductor wired pickups

passive operation:
1 pickup (vol./tone)

passive operation:
2 pickups (vol./balance/tone)

passive operation:
2 pickups (vol./vol./tone)
Shielded 2-conductor cable wiring

For DELANO shielded 2-conductor wired pickups
The colors of DELANO wires are white = hot, black = gnd
gray = shielding

additional series operation:
2 pickups (tone/vol/balance/3-pole on/on mini switch)

1) Balance pot must be in center position for series operation.
   If a push-pull potentiometer is in use
   - push position is: parallel
   - pull position is: in series

additional series operation:
2 pickups (tone/vol/balance*/2-pole on/on mini switch or: push-pull pot. (on/on) )
4-conductor cable wiring
For DELANO 4-conductor wired pickups
The colors of DELANO wires are white, green, brown, yellow, ground (gnd)
(These diagrams do NOT provide „TheHybrid“ pickup installation)

series / single coil*
mini toggle switch (on/on)

series:
green = hot out
brown = gnd
white, yellow (connect)
single coil:
green = hot out
white, brown, yellow = gnd

*) This diagram causes series (cross coils in series) switching with SBC HE/S-4 type pickups.

series / single coil / parallel*
mini toggle switch (on/on/on)

series:
green = hot out
brown = gnd
white, yellow (connect)
single coil:
green = hot out
white, brown, yellow = gnd
parallel:
white, green = hot out
brown, yellow = gnd

*) This diagram causes series (cross coils in series)/parallel switching with SBC HE/S-4 type pickups.
4-conductor cable wiring

For DELANO 4-conductor wired pickups
The colors of DELANO wires are white, green, brown, yellow, ground (gnd)
(These diagrams do NOT provide „TheHybrid“ pickup installation)

---

**single coil (rear coil) / series / single coil (front coil)**

- **mini toggle switch (on/on/on)**
- **vol./balance**
- **green**
- **yellow**
- **white**
- **brown**
- **gnd**

- **single coil (front):**
  - white = hot out
  - brown = gnd
  - green, yellow (connect)

- **single coil (rear):**
  - green = hot out
  - white, brown, yellow = gnd

- **series:**
  - green = hot out
  - brown = gnd
  - white, yellow (connect)

*) This diagram causes series (cross coils in series)/series/reversed (cross coils in series) switching with SBC HE/S-4 type pickups.

---

**single coil (rear coil) / parallel / single coil (front coil)**

- **mini toggle switch (on/on/on)**
- **vol./balance**
- **green**
- **white**
- **yellow**
- **brown**
- **gnd**

- **single coil (front):**
  - white = hot out
  - green, brown, yellow = gnd

- **single coil (rear):**
  - green = hot out
  - white, brown, yellow = gnd

- **parallel:**
  - white, green = hot out
  - brown, yellow = gnd

*) This diagram causes series (cross coils in series)/series/reversed (cross coils in series) switching with SBC HE/S-4 type pickups.
**4-conductor cable wiring**

For DELANO 4-conductor wired pickups

The colors of DELANO wires are white, green, brown, yellow, ground (gnd)

(These diagrams do NOT provide „TheHybrid“ pickup installation)

---

**series / single coil**

mini toggle switch (on/on)

or:

push-pull pot., single-side (on/on)

**series:**

- green = hot out
- brown = gnd
- white, yellow (connect)

**single coil:**

- green = hot out
- white, brown, yellow = gnd

---

* This diagram causes **series (cross coils in series)** switching with SBC HE/S-4 type pickups.

---

**series / parallel**

mini toggle switch (on/on)

or:

push-pull pot. (on/on)

**series:**

- green = hot out
- brown = gnd
- white, yellow (connect)

**parallel:**

- white, green = hot out
- brown, yellow = gnd

---

* This diagram causes **series (cross coils in series)** switching with SBC HE/S-4 type pickups.
Part 1: J-Bass™
Single coil bridge pickup with the immortal characteristics of early 60’s pickups. ALNiCo 5 magnet coil body made of vulcanized fiber and gauge 42 wire.

Part 2: Sting Ray™ Humbucker
Low resistance neck coil with 9.5 millimeter ALNiCo 5 magnets. Authentic sound guaranteed in this setting too, thanks to the special engineered bridge J-coil: the second MM™-coil is integrated inside.

Switching concept:
The integrated switch manager lets you get both of these great classic sounds at the touch of a toggle, each one reconstructed exactly in its original form with all its strengths and nuances of character: Passive function in single-coil mode, active function with the DELANO SONAR 2- or 3-band EQ activated in Humbucker mode. The internal switching of the pickup is lightning fast, too!
For maximum sound authenticity we recommend the custom neck version of our J™-single coil JC4AL/H or JC5AL/H for the neck position. With both pickups switched on, this JJ-arrangement typically produces a noise-free output.

No trouble with treble:
The 'TheHybrid’ set includes a specially designed treble pot that works as a typical passive tone control for the J™-sounds in the passive mode and doubles as the active treble EQ in the Sting Ray™ setting. The neutral setting is located conveniently in the middle position; when switching, it’s easy to get the basic settings you need.

Additional features:
In the humbucking mode – we call it ‘Ray’ mode – you’re able to combine TheHybrid pickup with the neck pickup, too. This is an additional feature. But take note, that use of the neck side single coil pickup typically causes hum, if driven with the active electronics. To achieve an authentic ‘Ray’ sound, you should turn the balance knob fully backwards – and so your bass is hum-free.
Part 1: J-Bass™
- Single coil pickup with the immortal characteristics of early 60's pickups.
- AlNiCo 5 magnet coil body made of vulcanized fiber and gauge 42 wire.

Part 2: Sting Ray™ Humbucker
- Low resistance neck coil with 9.5 millimeter AlNiCo 5 magnets. Authentic sound guaranteed in this setting too, thanks to the special engineered bridge J-coil: the second MM™-coil is integrated inside.

Switching concept:
- The integrated switch manager lets you get both of the great classic sounds at the touch of a toggle, each one reconstructed exactly in its original form with all its strengths and nuances of character: Passive function in single-coil mode, active function with the DELANO SONAR 2- or 3-band EQ activated in Humbucker mode. The internal switching of the pickup is lightning fast, too!

For maximum sound authenticity we recommend the custom neck version of our J™-single coil JC4AL/H or JC5AL/H for the neck position. With both pickups switched on, this J-J arrangement typically produces a noise-free output.

No trouble with treble:
- The 'TheHybrid' set includes a specially designed treble pot that works as a typical passive tone control for the J™-sounds in the passive mode and doubles as the active treble EQ in the Sting Ray™ setting. The neutral setting is located conveniently in the middle position; when switching, it's easy to get the basic settings you need.

Additional features:
- In the humbucking mode – we call it 'Ray' mode – you’re able to combine TheHybrid pickup with the neck pickup, too. This is an additional feature. But note, that use of the neck side single coil pickup typically causes hum, if driven with the active electronics. To achieve an authentic 'Ray' sound, you should turn the balance knob fully back wards – and so your bass is hum-free.
„TheHybrid“ Series wiring
For 2 pickups, balance- & volume pot

active electronics (EQ)

treble
mid (opt.)
bass
in out +9V

out
batter minus (-)

33nF

250 K (A)
50 K (B)

250 K (B)

neck pickup

humbucker single coil

mini toggle switch (on/on)

green
white
brown
yellow
gnd
„TheHybrid“ Series wiring
For 1 pickups & volume pot

active electronics (EQ)

treble
mid (opt.)
bass
in
out
+9V

gnd

out

battery minus (-)

250 K (A)
33nF
250 K (B)

50 K (B)

out

gnd

humbucker

mini toggle switch (on/on)

single coil
As an integral part of any active bass guitar, an active EQ has to fulfill countless requirements regarding strength and clarity in tone, power consumption and installation. To meet this challenge perfectly, we engineered the onboard preamp: Sonar. This smart powerhouse delivers the real thing: rocksteady bottom, cutting midrange and naturally brilliant high end. Whether adapting its tone to match the surrounding acoustics, enhancing versatility or increasing your musical expression, this preamp always feels like a natural extension, preserving all the benefits of passive operation: uncoloured, true and focused sound. Comparing the flat-set sound to bypassed full passive action you’ll detect no difference. Matchless. And with its perfectly matched band-pass filters and separated amplifier stages, adjustments stay predictable at any time without overpowering tone.

The Delano Sonar onboard preamp is housed in a sealed slim-box, which provides easy, space-saving installation and secure insulation to other electrical components. Its minimal power consumption lets you forget where your battery-box is - make a guess?

Availability:
- SONAR 2 / 2-Band
- SONAR 3 / 3-Band
- SONAR 3 MS / 3-Band
- SONAR 3 MS/E / 3-Band
Active electronics wiring
For SONAR 2 & 3 band EQ
We recommend a proper grounding and shielding of the electronics compartment with DELANO copper foil.

Battery (9V)

Active electronics (EQ)

Volume (push-pull)

Active electronics wiring
Active electronics wiring
For SONAR 2 & 3 band EQ with passive treble/cut
We recommend a proper grounding and shielding of the electronics compartment with DELANO copper foil
Active electronics wiring

For SONAR 2 & 3 band EQ with 2 x volume
We recommend a proper grounding and shielding of the electronics compartment
with DELANO copper foil

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Battery (9V)

Active electronics (EQ)

Treble
Mid (3band only)
Bass

In (green/yellow)
Out (red)
+9V (black)

Volume (push-pull)

Jack

To neck pickup (hot)

To bridge pickup (hot)
Active electronics wiring
For SONAR 3 MS & SONAR 3 MS/E EQs
The SONAR 3 MS and 3 MS/E 3band EQs offer the great advantage of selecting different mid frequencies. SONAR 3 MS = mid selection onboard, SONAR 3 MS/E = mid selection with three-position toggle switch.

SONAR 3 MS
Select mid frequencies onboard as follows:

<table>
<thead>
<tr>
<th>Frequency</th>
<th>300 Hz</th>
<th>500 Hz</th>
<th>800 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
</tr>
</tbody>
</table>

4x 1M Ohm resistors optional to prevent switch click.

SONAR 3 MS/E
Select mid frequencies with three-position toggle switch as follows:

<table>
<thead>
<tr>
<th>Frequency</th>
<th>300 Hz</th>
<th>800 Hz</th>
<th>500 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 Hz</td>
<td><img src="#" alt="Diagram" /></td>
<td><img src="#" alt="Diagram" /></td>
<td><img src="#" alt="Diagram" /></td>
</tr>
</tbody>
</table>
Sonar Xpure
Wiring as a max. 18 Volts power distribution system
Sonar Xpure wiring
Preamp with passive tone control for 2 pickups & 2 volume pots
Sonar Xpure wiring
Preamp with passive tone control for 1 pickup & volume push-pull pot for active / passive operation
Sonar Xpure wiring

Preamp with passive tone control for 2 pickups, balance & volume push-pull pot for active / passive operation.
Sonar Xpure wiring
Preamp with passive tone control
for 2 pickups, volume & volume push-pull pot
for active / passive operation
Accessories

DELANO potentiometers come with one nut and one washer.

Control Pot A 250K
Resistance: 250 KOhm
Taper: A (log.)
Center click: no

Control Pot B 250K
Resistance: 250 KOhm
Taper: B (lin.)
Center click: no

Control Pot 50K + 250K treble/cut
Resistance: 50 KOhm
Taper: B (lin.)
Resistance: 250 KOhm
Taper: A (log.)
Center click: yes

Control Pot B 50K
Resistance: 50 KOhm
Taper: B (lin.)
Center click: yes

Blend Pot 250K
Resistance: 250 KOhm
Center click: yes

Push-Pull Volume Pot 250K
Resistance: 250 KOhm
Taper: B (lin.)
Center click: no

Dimensions (in mm) for all DELANO potentiometers:
- Shaft diameter: 6,0 solid shaft
- Shaft length: 10,0
- Thread diameter: 7,0 (metric)
- Thread length: 10,0
- Mounting hole: 7,5
- Housing diameter: 17,0
**Accessories**

DELANO switches come with one nut and one washer.

**Switch 2-pole On/On**
- Type: mini toggle switch
- Function: On/On
- Number of poles: 2 pole
- Number of solder lugs: 6
- Color: chrome plated
- Mounting hole (in mm): 6,5

**Switch 2-pole On/On/On**
- Type: mini toggle switch
- Function: On/On/On
- Number of poles: 2 pole
- Number of solder lugs: 6
- Color: chrome plated
- Mounting hole (in mm): 6,5

**Switch 3-pole On/On**
- Type: mini toggle switch
- Function: On/On
- Number of poles: 3 pole
- Number of solder lugs: 9
- Color: chrome plated
- Mounting hole (in mm): 6,5

**Switch 2-pole On/Off/On**
- Type: mini toggle switch
- Function: On/Off/On
- Number of poles: 2 pole
- Number of solder lugs: 9
- Color: chrome plated
- Mounting hole (in mm): 6,5
The crossed out dustbin implies, that all products that are subject to the ElektroG may not be disposed in the domestic waste at the end of it´s working life. It must be taken to a special local authority waste collector differentiated waste collection center. The avoidance and recycling of waste products saves materials, as does the purposeful economical handling of raw materials. Delano products are registered under WEEE No. DE 58703363

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