



▪ **FIELD OF APPLICATION**
DÜRKOPP ADLER lockstitch machines

With connections and/or outputs for:

Thread trimmer	(max. 3.0A)
Thread wiper	(max. 3.0A)
Thread tension release	(max. 3.0A)
Sewing foot lift	(max. 6.5A/3.0A)
Backtacking	(max. 6.5A/3.0A)
Needle cooling	(max. 3.0A)
Output A	(max. 0.5A)
Output B	(max. 0.5A)
Position 1	(max. 10mA)
Position 2	(max. 10mA)
Generator impulses	(max. 10mA)

The total power of the outputs is to be limited to 96VA!

▪ **CHARACTERISTICS**

The control has a digital touch panel for programming all parameters (functions, times, speeds, etc.). When a Variocontrol V820 control panel is connected, more functions are possible, e. g. 8 seam patterns with a total of 40 seams (order nos. of the V810/V820 control panels see Special Accessories).

The control is operated by means of the detachable external actuator. 12 controlled speed stages are available. Stage 1 (positioning speed) and stage 12 (maximum speed) can be set. The maximum speed of the set value can be reduced by stages. The basic setting of the maximum speed is not affected. Stages 2...11 (intermediate speeds) adapt automatically to the respective maximum speed.

▪ **THE FOLLOWING FUNCTIONS ARE AVAILABLE AND CAN BE ADAPTED TO THE MACHINE:**

- **SOFTSTART:** On / off; number of stitches and speed at the start of the seam can be selected (2 stitches / factory setting: 800 RPM).
- **BASIC POSITION:** Needle position at stop in the seam up/down.
- **BRAKING POWER AT MACHINE STANDSTILL:** Braking effect can be set.
- **SEWING FOOT LIFT:** At stop in the seam automatic / by pedal, after thread trimming automatic / by pedal, start delay from lifted sewing foot can be set.
- **START AND END BACKTACK:** Can be set separately, single / double / off, possibility of compensation between forward and backward section, length of each backtacking section and speed selectable.
- **START AND END ORNAMENTAL BACKTACK:** Stop time can be set.
- **THREAD TRIMMER:** On / off; signals for various manufacturers.
- **THREAD WIPER:** On / off.
- **STITCH COUNTING:** On / off.
- **REVERSION:** Reversing angle up to 360° and activation delay can be set.
- **DIRECTION OF ROTATION OF THE MACHINE:** Programmable ccw / cw.
- **SPEED RANGE:** 70 RPM up to 6000 RPM (depending on machine).
- **SPEED LIMITATION:** Can be varied during machine run and at intermediate stop.
- **OUTPUT A / OUTPUT B:** Function modules for switching the stitch length, fullness, roller, fabric endstop, edge trimmer, high lift for walking foot, etc.

▪ **SWITCHING FUNCTIONS WHEN USING A VARIOCONTROL V810/V820/850:**

V810

- Start backtack single / double / off
- End backtack single / double / off
- Automatic sewing foot lift at stop in the seam / after thread trimming.
- Basic position of the needle at stop in the seam up / down.
- 2 pushbuttons which can be set with different input functions by means of parameters.

V820/850

- Start backtack single / double / off
- End backtack single / double / off
- Automatic sewing foot lift at stop in the seam / after thread trimming.
- Basic position of the needle at stop in the seam up / down.
- Stitch counting seam forward / backward / off.
- Light barrier function uncovered-covered / covered-uncovered / off.
- Thread trimmer and thread wiper.
- Bobbin thread monitor.
- Function key programmable.
- Programming seams TEACH IN; a maximum of 8 patterns with a total of 40 seams is possible, feeding direction can be inverted.
- 2 pushbuttons which can be set with different input functions by means of parameters.

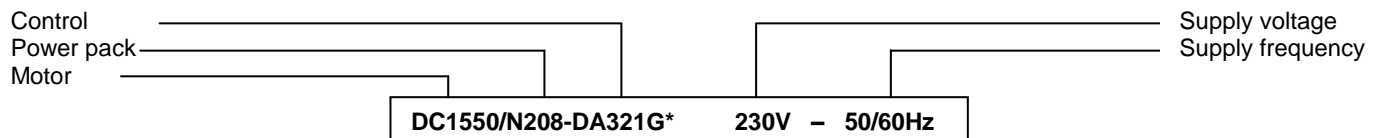
▪ **DIFFERENT INPUT FUNCTIONS ARE POSSIBLE:**

The following functions can be activated by using a pushbutton or switch:

Needle up / down	Intermediate backtack
Machine run blockage	Stitch regulator suppression / recall
Signal A	Speed limitation DB2000
Signal B	Speed limitation DB3000
External light barrier	

SCOPE OF SUPPLY			
Standard	1	Direct current motor	DC1550
	1	Electronic control/Power supply unit	DA321G5321/N208
	1	Actuator	EB301A
	1	Set of standard accessories	B158
		<i>consisting of:</i>	Plastic bag for B156 + documentation
Option 1	1	Set of standard accessories	B156
		<i>consisting of:</i>	Plastic bag for B156 + documentation
Option 2	1	Set of standard accessories	B159
		<i>consisting of:</i>	Plastic bag for B159, documentation and motor mounting parts
	1	Set of accessories	Z54
		<i>consisting of:</i>	Pitman rod 400...700mm long, bracket for fastening EB3..

SPECIAL ACCESSORIES, AGAINST EXTRA CHARGE		Material No.
Control panel Variocontrol V810		5970153
Control panel Variocontrol V820		5970154
Control panel Variocontrol V850		5990159
Control panel Variocontrol V900 (only in conjunction with compiler programming)		5990161
Reflection light barrier module LSM002		6100031
Hall sensor module HSM001		6100032
Pulse encoder IPG001		6100033
EFKANET interface IF232-3 USB		7900081
Adapter cord for the connection of light barrier module and/or Hall sensor module HSM001 and/or pulse encoder IPG001 and/or EFKANET		1113229
Actuating solenoid type EM1.. (for e. g. sewing foot lifting, backtacking, etc.)		available versions see specification "solenoids"
Extension cable approx. 1000 mm long for commutation transmitter DC15..		1113151
Extension cable approx. 1000 mm long for Netz DC15.. line		1113150
Potential equalization cord 700 mm long, LIY 2.5 mm ² , gray, with spades on both sides		1100313
Foot control type FB302B with three pedals for standing operation, with approx. 1400 mm connecting cable and plug		4170025
Fitting piece for position transmitter		0300019
Knee switch type KN3 (pushbutton) with cord of approx. 950 mm length without plug		5870013
Knee switch type KN19 (pushbutton) with cord of approx. 450 mm length without plug		5870021
Undertable mounting kit for DC15..		1113235
Undertable mounting kit (reinforced) for DC15..		1113427
Sewing light transformer		please indicate line voltage and sewing light voltage (6.3V or 12V)
9-contact SubminD male connector		0504135
9-contact SubminD female connector		0504136
Half-shell housing for 9-contact SubminD		0101523
37-contact SubminD male connector, complete		1112900
Single pins for 37-contact SubminD with strand of 50 mm length		1112899

AVAILABLE MOTOR
Example For Ordering DC1550 Positioning Drives


*) Besides the type designation, the control nameplate indicates the respective state of development (e. g. DA3212G...Y1) and the program number (e. g. DA321G5321..). The state of development is only required in the case of technical inquiries or repairs.

Available Motor

Type	Nominal speed RPM	Maximum Torque Nm	Operating voltage VAC	Protection	Length mm	Weight *) kg	Notes
DC1550	4500	8	230	IP40	185.5	3.120	

*) Weight of control 4.5 kg