

# TESS™ Motor Limit Setting

## Hardwired and Radio Limit Manual For Nice Action and Edge Motors



Please read these instructions in full prior to starting your installation.

**Guthrie Douglas**

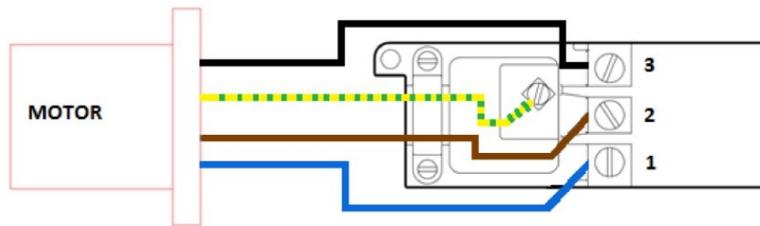


## **Contents**

<b>1. Hirschmann Fitting .....</b>	<b>4</b>
<b>2. EDGE Motor Settings - Initial Setup .....</b>	<b>5</b>
<b>3. EDGE Motor Settings - Additional Functions .....</b>	<b>6</b>
<b>4. ACTION Motor Settings - Initial Setup .....</b>	<b>9</b>
<b>5. ACTION Motor Settings - Additional Functions .....</b>	<b>10</b>

# 1. Hirschmann Fitting

**HIRSCHMANN  
STAS3**

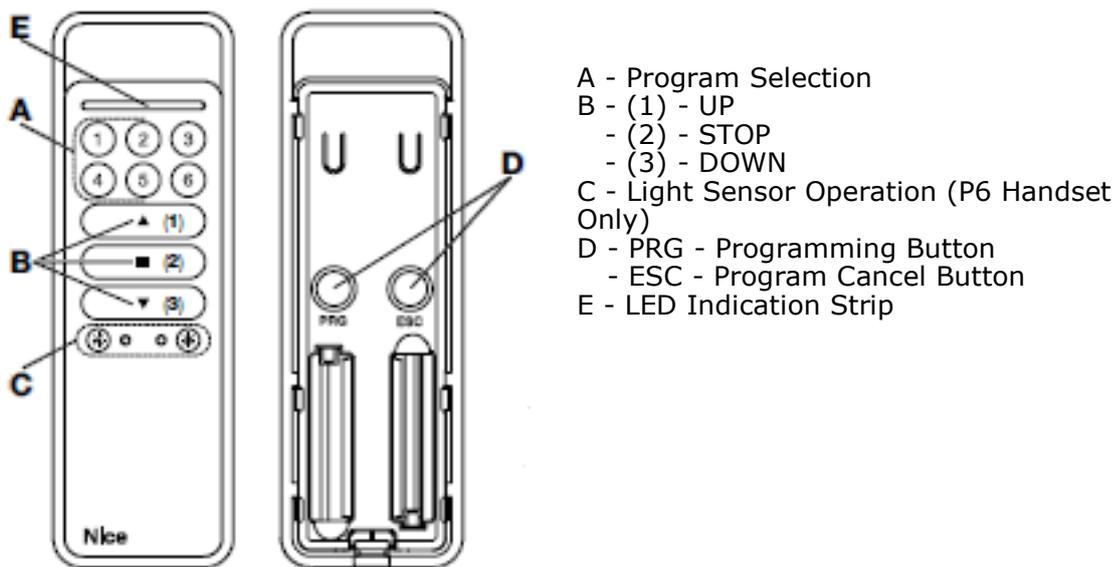


3. BLACK  
2. BROWN  
1. BLUE  
GROUND. YELLOW/GREEN

## Hirschmann Plug Fitting

- The diagram above shows the Hirschmann plug wiring as per Guthrie Douglas (GDE50360).

## 2. EDGE Motor Settings — Initial setup



### Important

- Only power up one motor at a time.
- Have the transmitter within 3m of the motor during setting process.
- Motors acknowledge by running briefly in either direction directions
- Motor will only run in deadman (impulse) mode until the end limit sequence is completed.

### Activating the first transmitter and setting motor direction

1. Connect the mains supply to the motor. This should be via an isolator switch in case programming has to be wiped. On power up motor will acknowledge
2. Hold (PRG) button and release after 5 seconds. (NOTE—the system will cycle continuously for a 2 minute period, motor direction must be confirmed within this time).
3. Press the ▲ (UP) at the beginning of an upwards movement. The system will stop briefly before resuming cycling.
4. Press the ▼ (DOWN) at the beginning of a downward movement. The system will stop briefly.
5. System will acknowledge 3 times to confirm transmitter and direction.

### Setting end limits (Upper)

1. Press (PRG) once. Motor will acknowledge 2 times.
2. Press and hold ▲ (UP) for 5 seconds. Motor will acknowledge 2 times.
3. Press and hold the ▲ (UP) to move the hem bar close to the desired upper limit.
4. Use the ▲ (UP) and ▼ (DOWN) to fine tune the upper limit position.
5. Press and hold the ■ for 5 seconds. Motor will acknowledge 3 times.

### Setting end limits (Lower)

1. Press (PRG) once. Motor will acknowledge 2 times.
2. Press and hold ▼ (DOWN) for 5 seconds Motor will acknowledge 2 times.
3. Press and hold the ▼ (DOWN) to move the Hem Bar close to the desired upper limit.
4. Use the ▲ (UP) and ▼ (DOWN) to fine tune the upper limit position.
5. Press and hold the ■ for 5 seconds. Motor will acknowledge 3 times.

## 3. Edge Motor Settings — Additional Functions

### Re-adjustment of end limits

The end limits can be adjusted as follows:

1. Move the hem bar to the limit position.
2. Using the 2 buttons located on the motor head, adjust the limit position.
3. Press and hold either one of the motor head buttons for 5 seconds
4. Motor will acknowledge 3 times.

Please note: the motor must be on the limit to be adjusted. If the limit cannot be reached then the programming will have to be cancelled and the re-started.

### labelling Cancellling the Programming & Settings

#### Option 1—using a memorised transmitter

1. Press the (PRG) button. Motor will acknowledge 2 times
2. Press the (PRG) button. Motor will acknowledge 2 times
3. Press the (PRG) button. Motor will acknowledge 3 times.
4. Press the (PRG) button. Motor will acknowledge 4 times.

#### Option 2—using a non-memorised transmitter

1. Press and hold both buttons located on the motor head for 5 seconds. After 5 seconds a red led will flash on the motor.
2. On the handset press the (PRG) button. Motor will acknowledge 2 times
3. Press the (PRG) button. Motor will acknowledge 2 times
4. Press the (PRG) button. Motor will acknowledge 3 times.
5. Press the (PRG) button. Motor will acknowledge 4 times.

The motor has now been reset

### Programming additional transmitters with (PRG) and (ESC) buttons

1. Press and hold the (PRG) button on the master transmitter. Motor will acknowledge 4 times.
2. Press and hold the (PRG) button on the new handset for 5 seconds. Motor will acknowledge 2 times.
3. Press and release the (PRG) button on the master transmitter. Motor will acknowledge 3 times.
4. New handset is now programmed.

### Programming additional transmitters without (PRG) and (ESC) buttons

1. On the new transmitter press and hold the ■ button for 8 seconds.
2. On the old transmitter press the ■ button 3 times.
3. On the new transmitter press the ■ button 1 time.
4. Motor will acknowledge 3 times.

### Programming additional channels

1. Press new channel
2. Press and hold ■ for 8 seconds.
3. Press old channel
4. Press ■ 3 times
5. Press new channel
6. Press ■ for 1 time
7. System will "acknowledge" 3 times

### 3. Edge Motor Settings — Additional Functions

#### Obstacle Detection

1. Press the (PRG) button. Motor will acknowledge 2 times.
2. Press the (PRG) button. Motor will acknowledge 2 times.
3. Press and hold ▲ (UP) and ■ (STOP) buttons for 5 seconds. Motor will acknowledge 2 times.
4. Press ▲ (UP) the number of times for the required option from the table below.

2 Presses	Sets HIGH Sensitivity
5 Presses	Sets Disabled Sensitivity

5. After 7 seconds the motor will acknowledge by the amount of presses made.
6. Press and hold ■ (STOP) button for 5 seconds. Motor will acknowledge 3 times.

NOTE - System must complete a full deploy and full retract cycle to activate this function.

#### Adjusting the Acceleration/Deceleration of the system

1. Press the (PRG) button. Motor will acknowledge 2 times.
2. Press the (PRG) button. Motor will acknowledge 2 times.
3. Press and hold ▲ (UP) button for 5 seconds. Motor will acknowledge 3 times.
4. Press and hold ■ (STOP) button for 5 seconds. Motor will acknowledge 3 times.
5. Press ▲ (UP) the number of times for the required option from the table below.

1 Press	Sets no acceleration/deceleration = 0 rotation
2 Presses	Sets brief acceleration/deceleration = 0.7 rotation
3 Presses	Sets nominal acceleration/deceleration = 1.5 rotation
4 Presses	Sets long acceleration/deceleration = 2 rotation
5 Presses	Sets maximum acceleration/deceleration = 3 rotation

6. After 7 seconds the motor will acknowledge by the amount of presses made.
7. Press and hold ■ (STOP) button for 5 seconds. Motor will acknowledge 3 times.

#### Adjusting the Cruise speed

1. Press the (PRG) button. Motor will acknowledge 2 times.
2. Press the (PRG) button. Motor will acknowledge 2 times.
3. Press and hold ▲ (UP) button for 5 seconds. Motor will acknowledge 3 times.
4. Press ▲ (UP) the number of times for the required option from the table below.

1 Press	Sets Minimum speed
2 Presses	Sets Normal Speed
3 Presses	Sets Maximum Speed

5. After 7 seconds the motor will acknowledge by the amount of presses made.
6. Press and hold ■ (STOP) button for 5 seconds. Motor will acknowledge 3 times.

### 3. Edge Motor Settings — Additional Functions

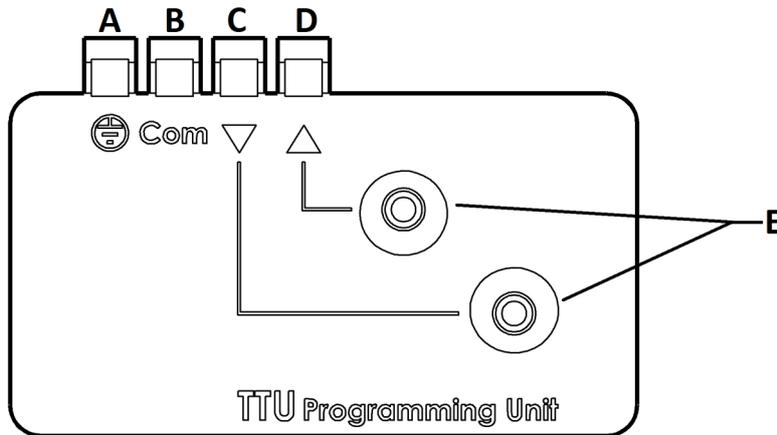
#### Adjusting duration of movement

1. Press the (PRG) button. Motor will acknowledge 2 times.
2. Press the (PRG) button. Motor will acknowledge 2 times.
3. Press and hold ▲ (UP) button for 5 seconds. Motor will acknowledge 2 times.
4. Press ▼ (DOWN) the number of times for the required option from the table below.

1 Press	Sets 7 seconds
2 Presses	Sets 15 seconds
3 Presses	Sets 20 seconds
4 Presses	Sets 30 seconds
5 Presses	Disables the function and sets normal speed

5. After 7 seconds the motor will acknowledge by the amount of presses made.
6. Press and hold ■ (STOP) button for 5 seconds. Motor will acknowledge 3 times.

## 4. Action Motor Settings — Initial setup



A - Earth  
B - Neutral  
C - Deploy (Live)  
D - Retract (Live)  
E - Push button (Deploy and Retract)

Before program setting, ensure that the direction of the motor corresponds with the direction buttons on the handset. If required swap C and D wires to reverse the direction of the motor.

### Important

- Check the running direction of the motor when attaching the motor to the programming test lead. Ensure that the running direction of the motor corresponds with the direction arrows on the test lead.
- Motors acknowledge by running briefly in either direction directions
- Ensure that each instruction is followed in order.
- READ THROUGH EACH INSTRUCTION SECTION FIRST.

### Reset Motor

1. Move hem bar to mid position.
2. Push and hold ▲+▼ buttons. Motor will acknowledge.
3. While holding ▲, release ▼ button ONLY.
4. Press ▼ button 5 times - **(0.5 second button presses)**  
**(DO NOT hold the ▼ button on the final press).**
5. After 7 seconds the hem bar will move position.
6. Release ▲ button.

### Setting Motor End Limits

1. Push and hold ▲ button to move the hem bar to the desired retracted position.
2. Press and hold ▲+▼ buttons for 5 seconds. Motor will acknowledge.
3. Push and hold ▼ button to move the hem bar to the desired deployed position.
4. Press and hold ▲+▼ buttons for 5 seconds. Motor will acknowledge.
5. Motor limits are now set.

## 5. Action Motor Settings — Additional Functions

### Obstacle Detection

1. Push and hold ▲+▼ buttons. Motor will acknowledge (2 movements).
2. Continue to hold ▲+▼ buttons. Motor will acknowledge (3 movements).
3. While holding ▼, release ▲ button ONLY.
4. Press ▲ button the number of times for the required option from the table below.

2 Presses	Sets HIGH Sensitivity
5 Presses	Sets Disabled Sensitivity

5. After 7 seconds the motor will acknowledge by the amount of presses made. (DO NOT hold the ▲ button on the final press).
6. Release ▼ button.



# **Guthrie Douglas**

## **Guthrie Douglas Group Limited**

12 Heathcote Way,  
Heathcote Industrial Estate,  
Warwick,  
UK,  
CV34 6TE  
E-mail: [solar@guthriedouglas.com](mailto:solar@guthriedouglas.com)  
Web site: [www.guthriedouglas.com](http://www.guthriedouglas.com)  
Tel: +44 (0)1926 310 850