

# Motorised Turnstile

## Spare Parts Manual



## “© Copyright EVOLVE SECURITY PRODUCTS LIMITED”

This manual and information which it contains remain the property of EVOLVE SECURITY PRODUCTS (Evolve) at all times and must be returned immediately upon request.

The information contained within this manual is confidential to EVOLVE and may not be passed to any Third Party without prior written permission from EVOLVE.

The copyright of this manual remains the property of EVOLVE at all times. This manual may not be transmitted or reproduced by any means without prior written permission from EVOLVE.

Every effort has been made to ensure that the information contained within this manual is correct at the time of supply. In no circumstances will EVOLVE be responsible or liable for any costs, damage or injury whatsoever arising from the use of this manual.

The manual is subject to revision without prior notice.

## Contents

1. IMPORTANT SAFETY INFORMATION.	4
2. OVERVIEW	4
3. PURPOSE	4
4. RECOMMENDED SPARES LIST	4
5. FULL SPARES LIST	5
6. REFERANCES	11
6.1 OTHER DOCUMENTS	11
6.2 ABBREVIATIONS	11
6.3 DEFINITIONS	12
6.4 REQUIREMENTS OWNER	12
6.5 HISTORY	12

## 1. IMPORTANT SAFETY INFORMATION.

- The installer, service and maintenance technicians MUST adhere to these safety notes when replacing any spare part.
- Do not add unapproved parts or accessories.
- Any repair or maintenance work MUST only be performed by manufacturer trained technicians. Any unauthorised intervention performed by a non-trained technician will automatically void the manufacturer's warranty.
- Access to the mechanism must only be carried out by manufacturer trained technicians that are fully aware of the electrical and mechanical risks involved.
- For any operation that does not require the turnstile to be powered, isolate the power at the distribution panel or at the local isolation switch.
- Any internal item likely to be energised or move MUST be handled with great care.
- Use of antistatic gloves or bracelets (Electrostatic Discharge) is essential when handling electronic printed circuit boards.
- The turnstile is configured in "minimum risk" mode for users. Any modification of parameters must be done knowingly by manufacturer trained technicians.
- The re-seller shall defend and indemnify EVOLVE SECURITY PRODUCTS from any claims which may be raised against EVOLVE SECURITY PRODUCTS due to the seller's failure to comply with the above obligations.
- With the correct installation and regular service, the turnstile should give trouble-free operation for many years. As a minimum Evolve recommend that a LEAST a bi-annual service is carried out by an Evolve trained technician.

## 2. OVERVIEW

This spares parts manual should only be used by Evolve trained technicians.

## 3. PURPOSE


Spare parts MUST only be fitted by Evolve trained technicians and in compliance with the safety notes in this manual.

## 4. RECOMMENDED SPARES LIST

The following is a list of recommended spares parts based on a medium usage site.

Part No.	Description	No. of Turnstiles	
		1 to 5	10 to 20
ES-TD115	Controller TD115 - GZ117	1	2
ES-NES-100-24	PSU NES-100-24	1	2
ES-GZ	JX GZ V3.25 Motor Controller	1	2
ES-DB-001	Drive Belt, Micro-V 170J, 3714 SC 093	5	10
ES-MOT-COM	Complete Motorised Head Mechanism with Arms	0	2

**5. FULL SPARES LIST**

	<p style="text-align: center;"><u>End Section</u></p> <ul style="list-style-type: none"> <li>• TD controller</li> <li>• Power supply</li> <li>• Isolation switch</li> </ul>
	<p>Controller TD112, TD113, TD114 are all OBSOLETE – Replaced by TD116b. <b>Note TD116, TD116a and TD116b will not work with JX3.24 or 3.24a or 5-volt sensor i/o controller.</b></p>
	<p>Controller TD115 highest version of firmware 133 available. OBSOLETE – Replaced by TD116b. <b>Note TD116, TD116a and TD116b will not work with JX3.24 or 3.24a or 5-volt sensor i/o controller.</b></p>
	<p>Controller TD116 will be supplied until stock are exhausted.</p>
	<p>Controller TD116a will be supplied until stock are exhausted.</p>

	<p>Controller TD116b with 134 firmware.</p> <p>Note will not work with JX3.24 or 3.24a</p>	<p>TT-TD</p>
 	<p>PSU NES-100-24</p>	<p>ES-NES-100-24</p>
	<p>Isolator</p>	<p>ES-DZ47LE</p>
	<p>JX GZ V3.25 Motor Controller</p>	<p>ES-GZ</p>
	<p style="text-align: center;"><b><u>End Cover</u></b></p> <ul style="list-style-type: none"> <li>• Orientation LED and cable</li> <li>• Orientation Perspex</li> </ul>	

	Orientation LED and cable	TT-ORIEN-LED
	Orientation Perspex	TT-ORIEN-PER
	Plexiglas	ES-Plex-001
	Sticker for plexiglas	ES-Plex-Sticker-001
	Functional pictogram	TT-FUNT-001
	Functional pictogram PCB	TT-FPCB-001
	Complete Motorised Head Mechanism with Arms	ES-MOT-COM



	<p>Complete Motorised Head Mechanism without Arms</p>	<p>ES-MOT-HEAD</p>
	<p>Drop Arm Solenoid</p>	<p>ES-DASOL</p>
	<p>Drive Belt Micro-V 170J 3714 SC 093</p>	<p>ES-DB-001</p>
	<p>Motor and Gearbox Assembly</p>	<p>ES-MGA-001</p>
	<p>Motor 24v 3000rpm</p>	<p>ES-FL57BLS01</p>
	<p>Gearbox</p>	<p>ES-GB-001</p>
	<p>Motor Pulley</p>	<p>ES-MP-001</p>

	Motor Adjustment Bracket	ES-MAB-001
	Brake/clutch assembly	ES-BCA-001
	Brake/clutch	ES-BC-001
	Chassis	ES-CHASS-001
	Turret Assembly	ES-TUR-001
	Drop Arm	ES-TUR-002
	Arm Pivot Pin	ES-TUR-003
	Turret Spring	ES-TUR-004
	Lid lock and 2 keys	ES-LOCK-001

	Lid keys	ES-KEYS-001
	Round End Cover	ES-END-ROUND
	Orientation LED	ES-ORIEN-LED
  	Functional Pictogram DB100 v3.2	ES-FUN-001

## 6. REFERENCES

### 6.1 Other documents

Document No.	Title
ESP-MOT-INSTALL	Installation manual
ESP-MOT-MOGP	Manual of good practice

### 6.2 Abbreviations

The following abbreviations are created:

- a. within this document;

- b. from published sources.

Abbreviation	Description	Source
PSU	Power Supply Unit	a

### 6.3 Definitions

The following topic specific definitions are created:

- a. within this document;  
 b. from published sources.

Term	Definition	Source

### 6.4 Requirements owner

Paragraph Number	Owner
All	Andy Brown

### 6.5 History

Revision	Date	Changes	Author
Draft	21/05/2015	After visit to factory	AB
00	27/05/2015	Issued for general release	AB
01	04/06/2015	Parts added	AB
02	23/06/2015	Add more details to V-belt Change Controller part number	AB
03	26/06/2015	Add recommended spares list	AB
04	31/10/2020	Added some parts	AB