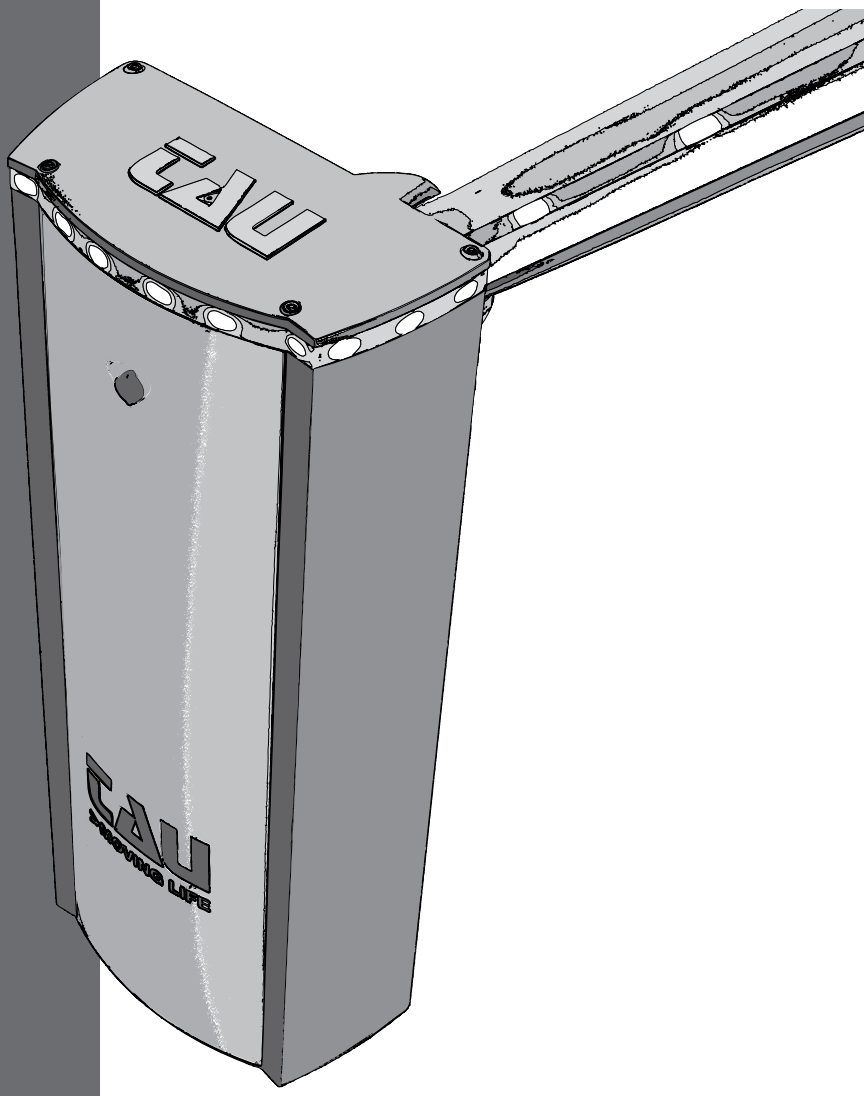
>MOVING LIFE

MANUALE D'USO E MANUTENZIONE
USE AND MAINTENANCE MANUAL
BEDIENUNGS - UND WARTUNGSANLEITUNG
MANUEL D'EMPLOI ET D'ENTRETIEN
MANUAL DE USO Y MANTENIMIENTO

LUXE



IT - Istruzioni originali

D-MNL0LUXE 07-02-2021 - Rev.17

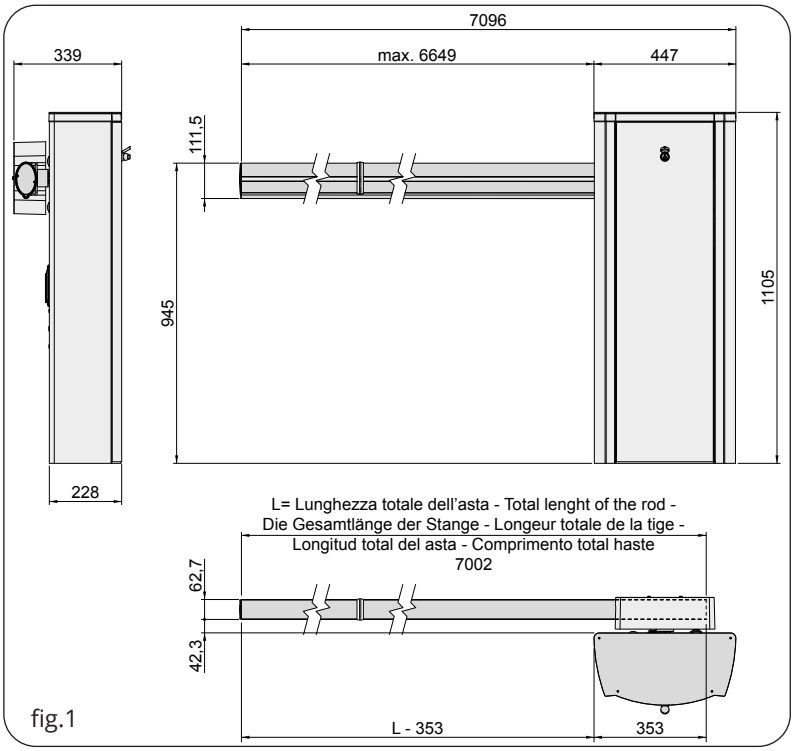


fig.1

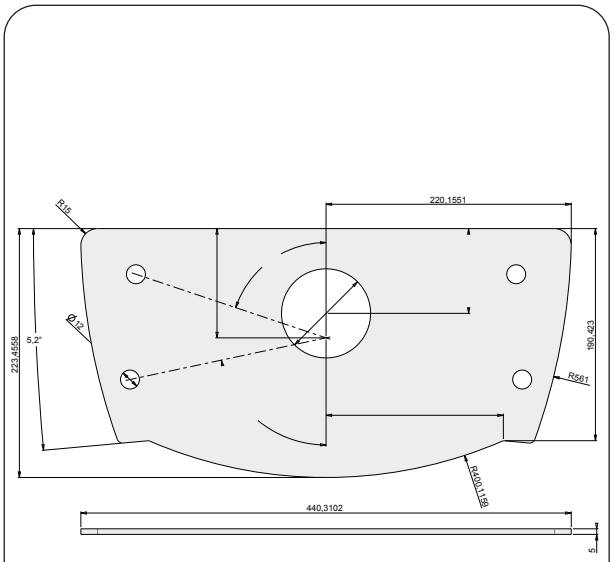


fig. 2

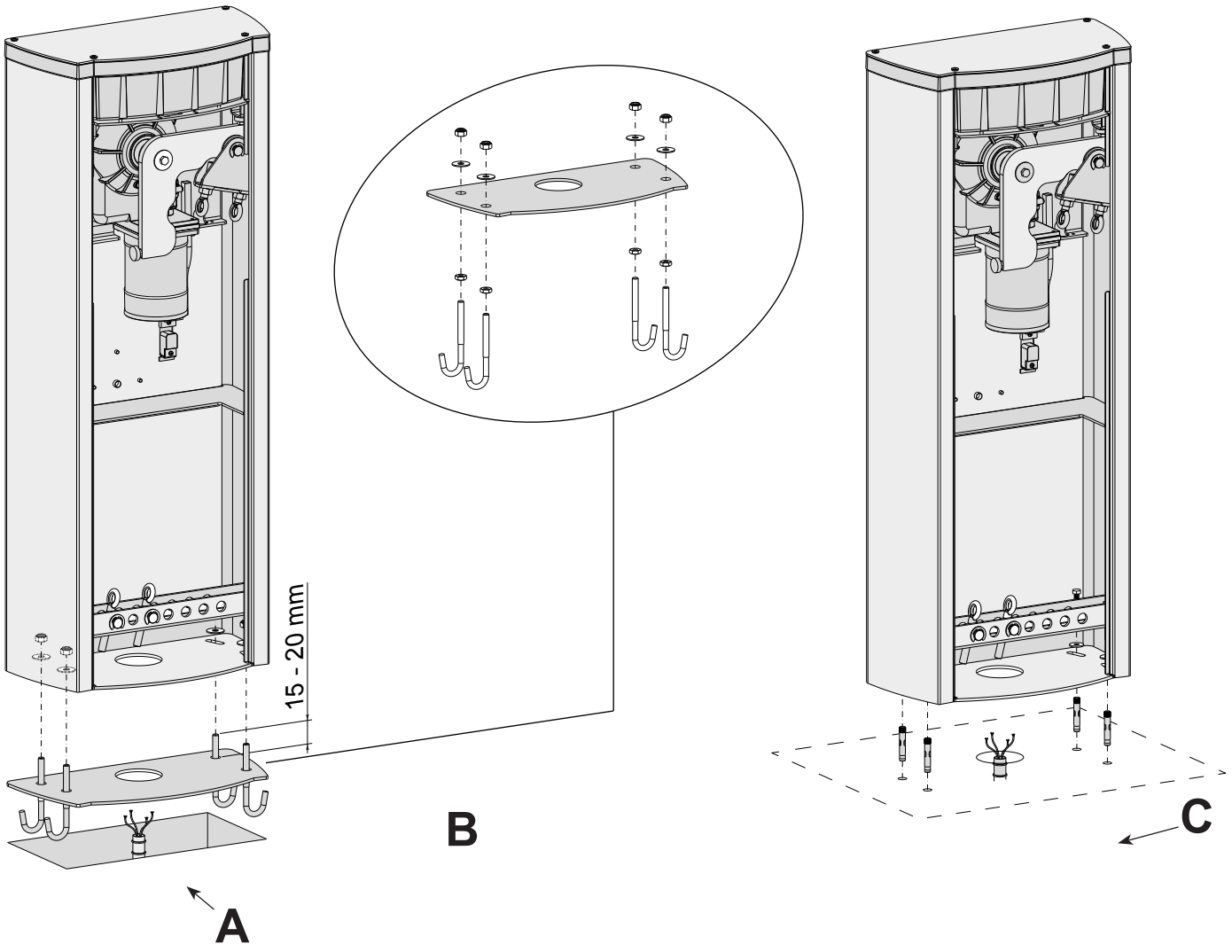


fig. 3

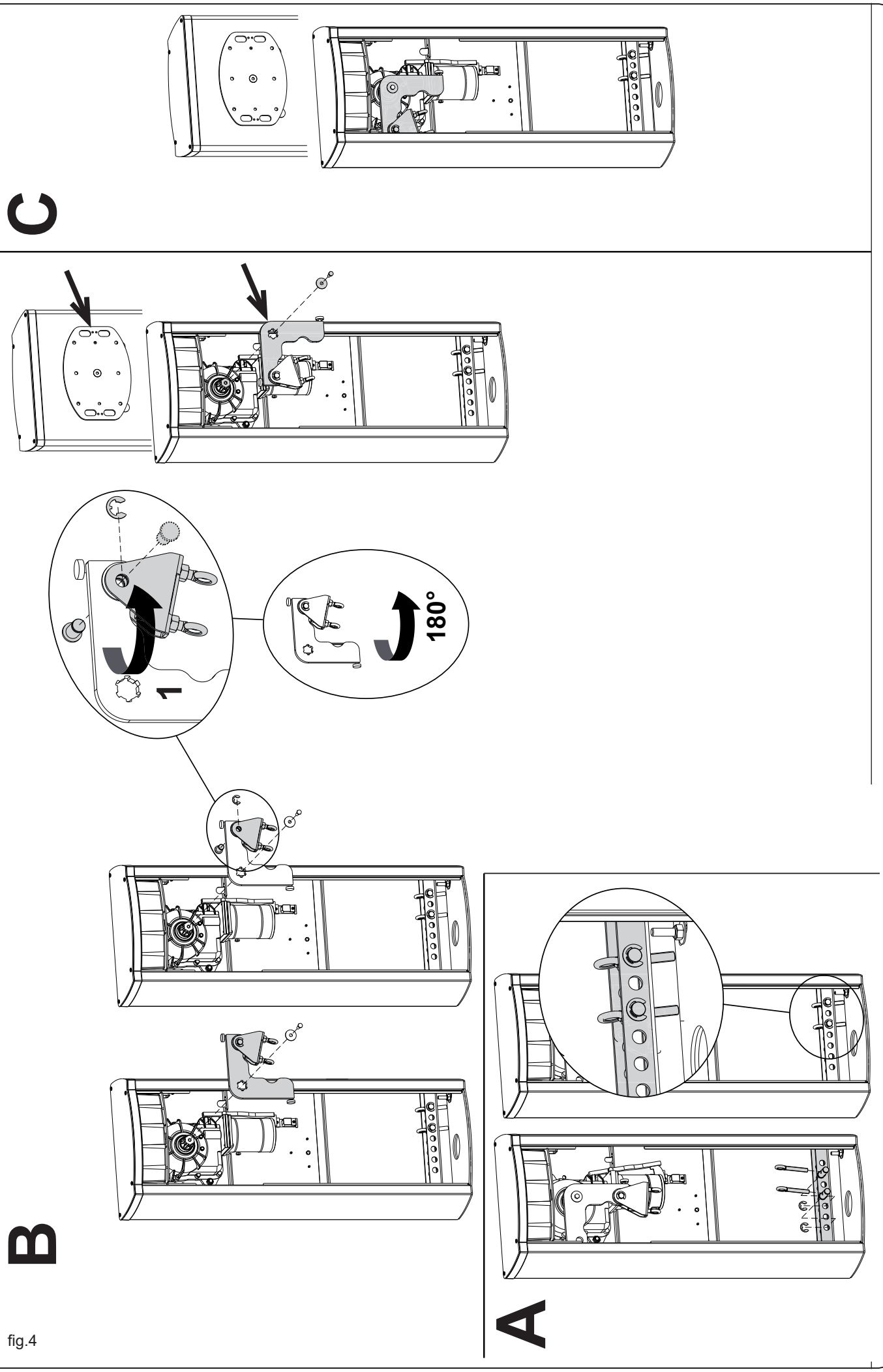


fig.4

ATTENZIONE: la sezione dell'asta NON è simmetrica. Per lato attacco flangia si intende quello di fig. A, per lato tappo quello di fig. B).
WARNING: the bar section is NOT symmetrical. Flange connection side means the one in fig. A, cap side means the one in fig. B).
ACHTUNG: Der Querschnitt der Stange ist NICHT symmetrisch. Die Seite des Flansch-Anschlusses ist die auf Abb. A, die Seite der Abdeckung die auf Abb. B).
ATTENTION : la section de la tige N'EST PAS symétrique. Par côté raccord bride on entend celui de la figure A, par côté bouchon celui de la figure B).
ATENCIÓN: la sección del asta NO es simétrica. Con lado de enganche brida se entiende aquel de la fig. A, con lado tapón aquel de la fig. B).
ATENÇÃO: a secção da haste NÃO é simétrica. Como lado de encaixe flange quer-se dizer aquele da fig. A, como lado tampa aquele da fig. B).

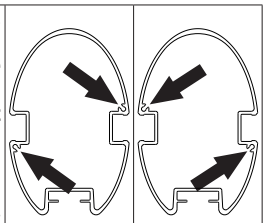


fig. A fig. B

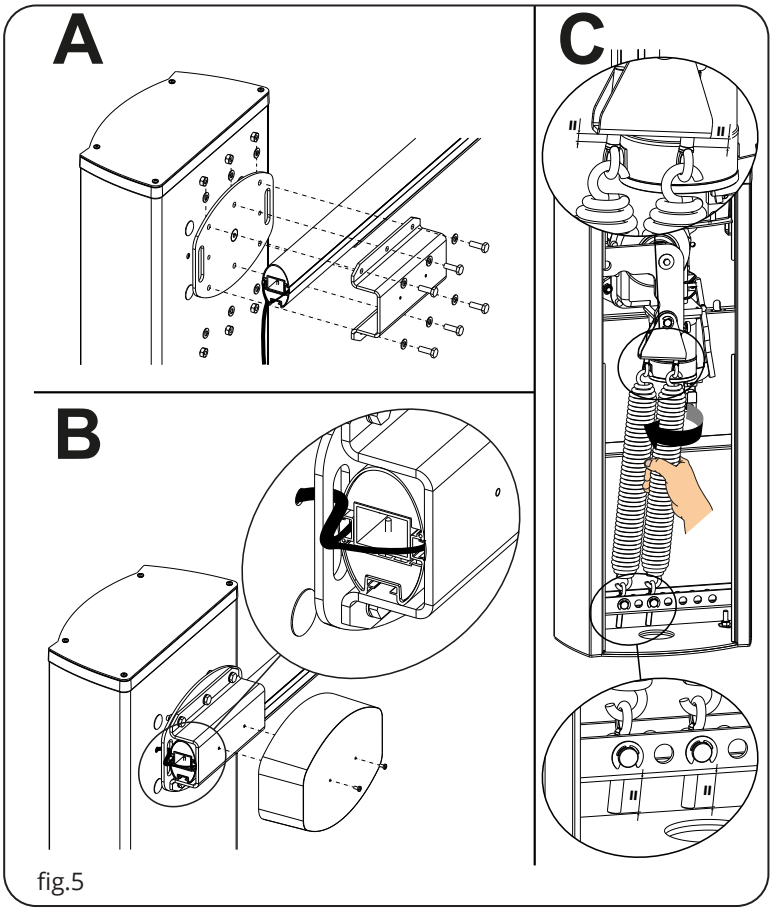


fig.5

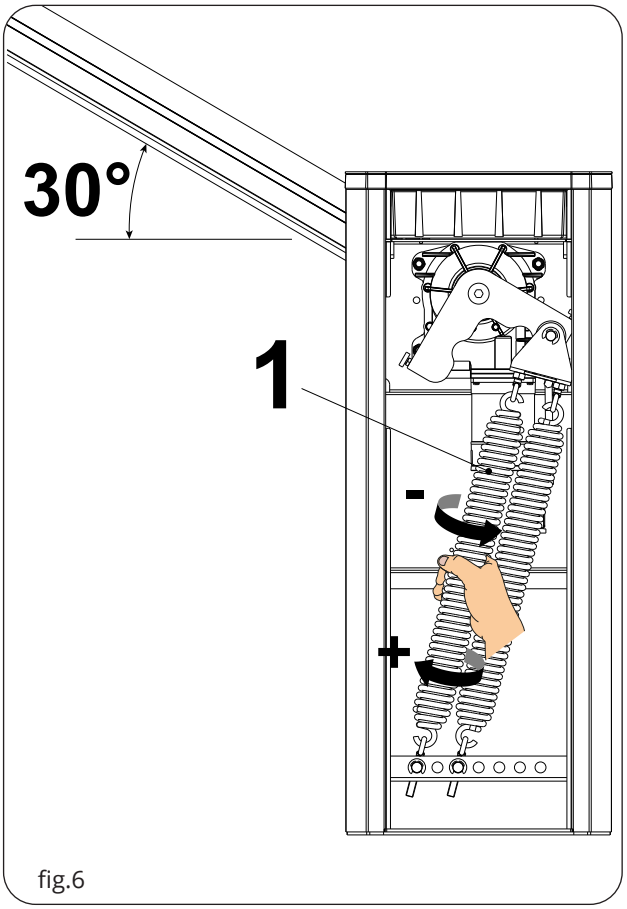


fig.6

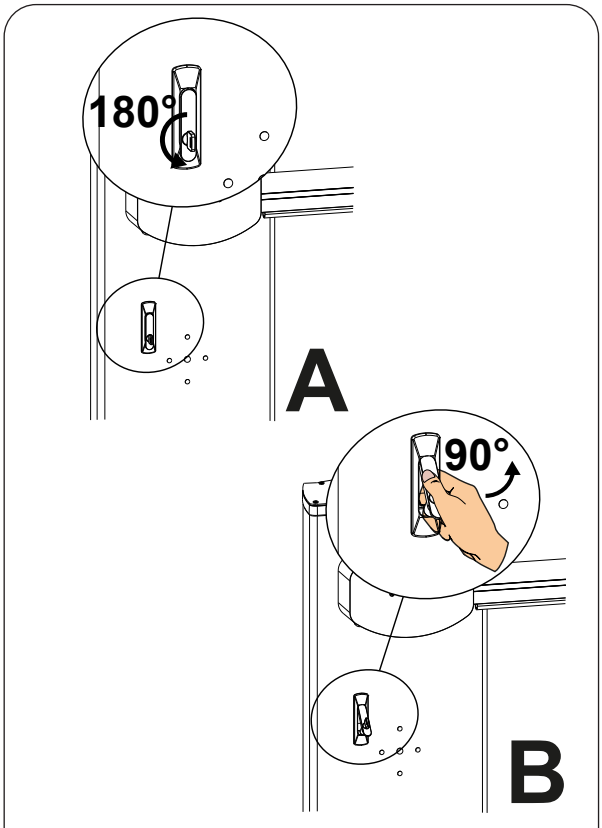


fig. 7

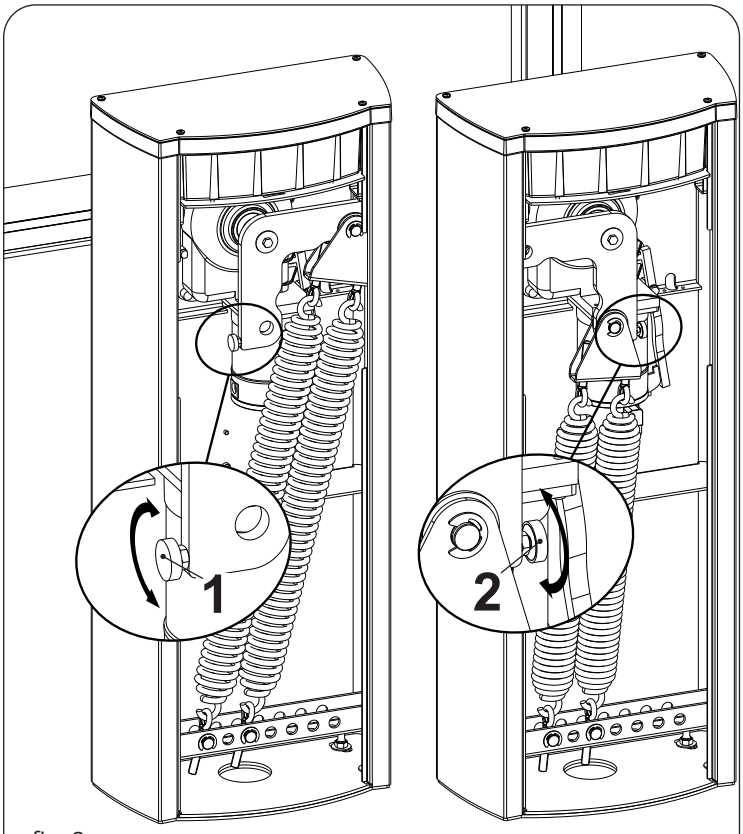


fig. 8

LUXE

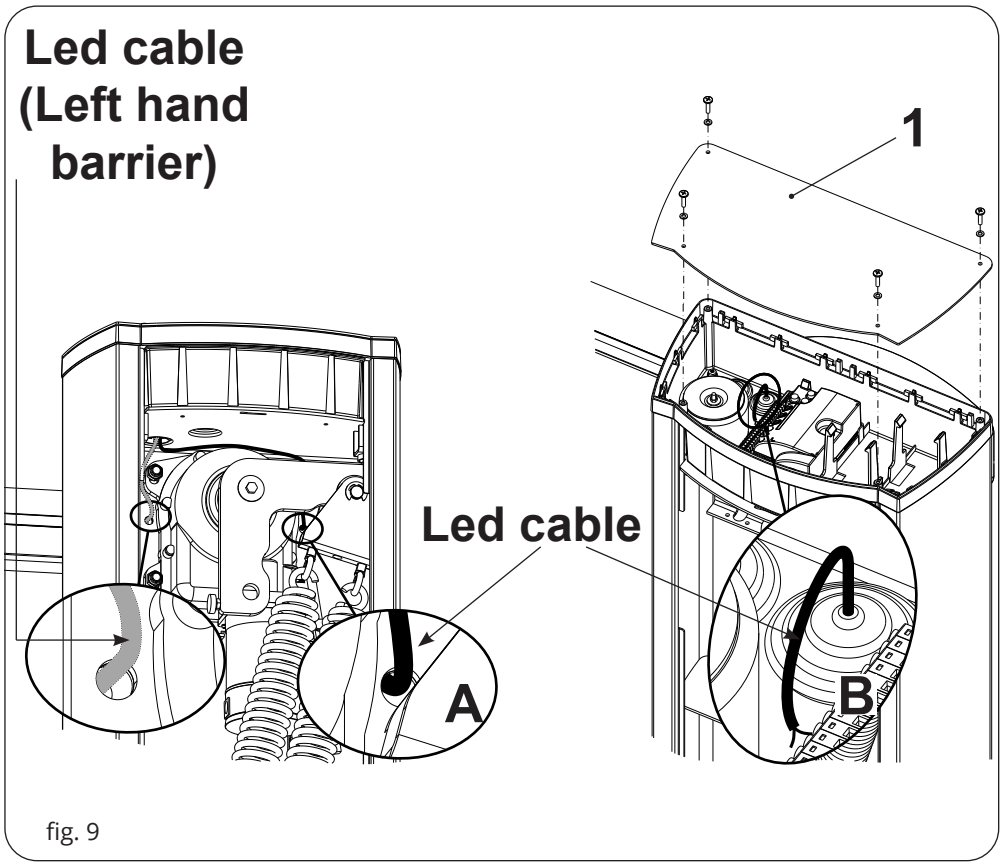


fig. 9

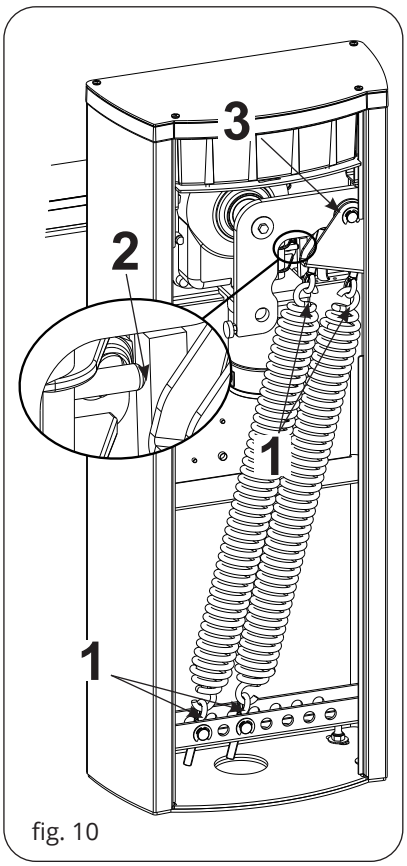


fig. 10

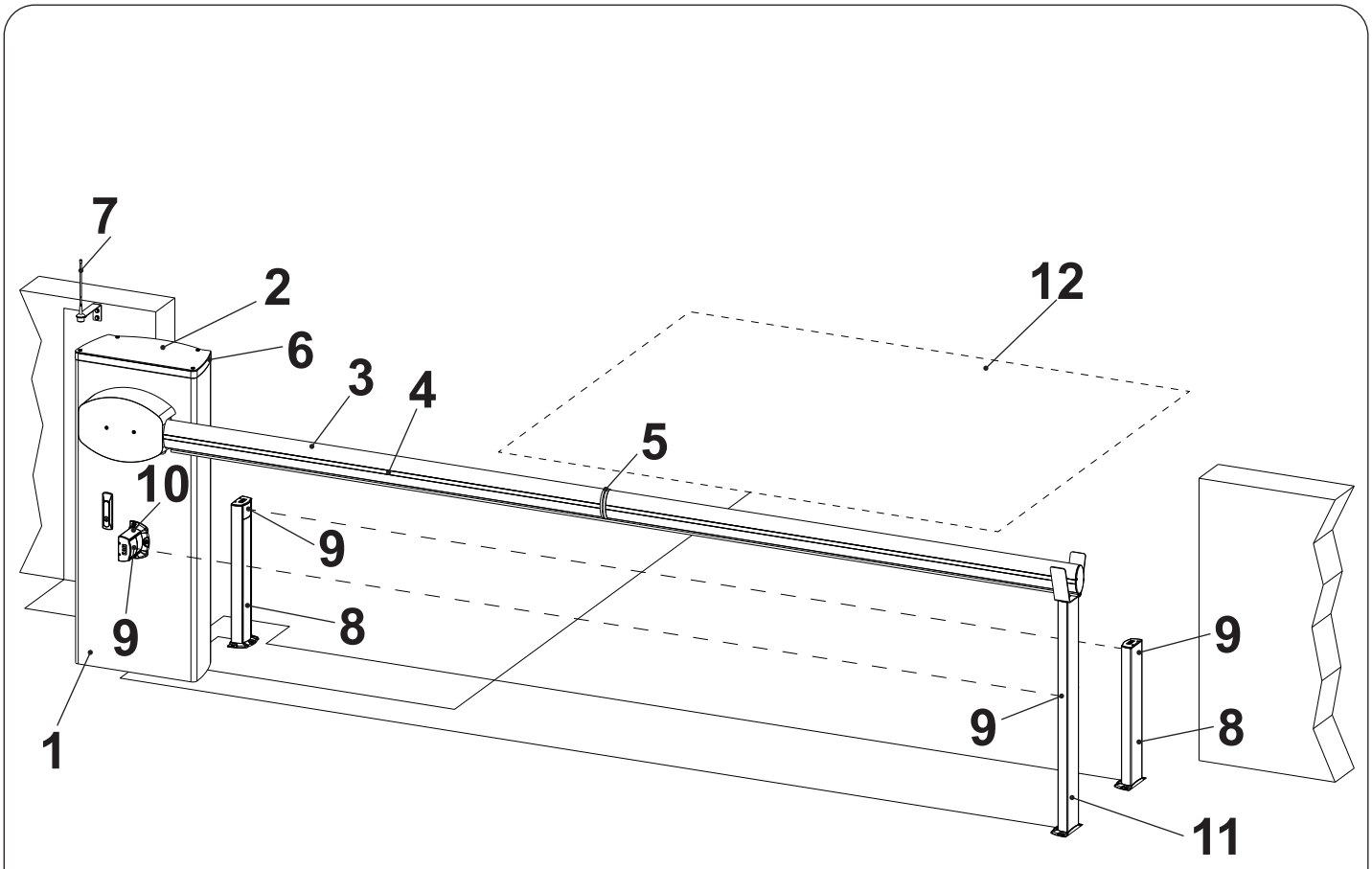


fig. 11

800AE4 + 800FPL + 800PG — 4 m

800AE5 + 800FPL + 800PG — 5 m

+ 800RA + 800AE3 + 800GI + 800AE2 — 5 m

+ 800RA + 800AE3 + 800GI + 800AE3 — 6 m

+ 800RA + 800AE4 + 800GI + 800AE3 — 7 m

Per lunghezze asta uguali o superiori a 5 m è obbligatorio l'uso dell'appoggio asta a terra fisso o pensile.
For boom lengths equal or greater than 5 mt. it must use (mandatory) the ground boom support or the pendulum support
Bei einer Stangenlänge gleich oder über 5 m ist die Anwendung der Stangenauflage am Boden fest oder hängend notwendig.
Pour lisses de 5 ou plus metrès de longueur, l'utilisation de la lyre de repos appui au sol ou suspendu est contraignante.
En el caso de que la longitud de la barra sea de 5 m o más, será obligatorio utilizar un soporte para la barra anclado al suelo o colgante.
Para comprimentos de haste iguais ou superiores a 5 m deve-se utilizar o suporte para haste fixo no chão ou suspenso.

Per aste con passaggi utili superiori a 5 m è OBBLIGATORIO usare il rinforzo 800RA.
For bars with useful passage exceeding 5m, it is COMPULSORY to use the 800RA reinforcement.
Für Stangen mit Nenndurchlass über 5 m ist eine Verstärkung von 800RA UNBEDINGT notwendig.
Pour les barres de plus de 5 m d'envergure il est OBLIGATOIRE d'utiliser le renforcement 800RA.
Para varillas con pasaje útil superior a 5 m es OBLIGATORIO usar el refuerzo 800RA.
Para haste com largura de passagem útil superior a 5m é OBRIGATÓRIO aplicar o reforço 800RA.

ATTENZIONE: RISPETTO ALLA LUNGHEZZA NOMINALE DELL'ASTA, IL PASSAGGIO UTILE SI RIDUCE DI 353 mm (vedi fig. 1).
ATTENTION: PASSAGE WIDTH EQUALS BAR LENGTH LESS 353 mm (see pic. #1).
ACHTUNG: TATSÄCHLICHE ABSPERRBREITE IST GLEICH BAUMLAENGE MINUS 353 mm (siehe Abb. 1).
AVERTISSEMENT: LE PASSAGE UTILE EST RÉDUIT DE 353 mm PAR RAPPORT À LA LONGUEUR NOMINALE DE LA LISSE (voir fig. 1).
ATENCIÓN: EL PASO LIBRE ES IGUAL A LA LONGITUD DEL ASTA MENOS 353 mm (véase fig. 1).
ATENÇÃO: A PASSAGEM UTIL É IGUAL AO CUMPRIMENTO DO HASTE MENOS 353 mm (ver fig. 1).

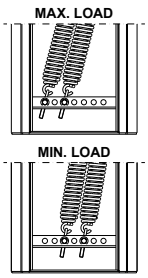
MOLLA / SPRING / FEDER RESSORT / MUELLE / MOLA	A)	M-060MGREENL (ø 4,2 mm) *Color: Light Green RAL 6019*	B)	M-060MGREEN (ø 5,2 mm) *Color: Green RAL 6002*	C)	M-060MBLU (ø 6,2 mm) *Color: Blue RAL 5003*	
			D)	M-060MRED (ø 7 mm) *Color: Red RAL 3000*	E)	M-060MYELLOW (ø 9 mm) *Color: Yellow RAL 1004*	

ASTA ED ACCESSORI BAR AND ACCESSORIES SCHRANKENBAUM UND ZUBEHÖRE LISSE ET ACCESSOIRES BARRA Y ACCESORIOS HASTE E ACESSÓRIOS	LUNGH. ASTA / BAR LENGHT / SCHRANKENBAUMLÄNGE LONGUEUR LISSE / LONGITUD BARRA / COMPRIMENTO HASTE						
	4 ÷ 4,24 (m)	**4,25 ÷ 4,74 (m)**	**4,75 ÷ 5,24 (m)**	**5,25 ÷ 5,74 (m)**	**5,75 ÷ 6,24 (m)**	**6,25 ÷ 6,74 (m)**	**6,75 ÷ 7 (m)**
800AE + 800PG	B+B	B+C[1]	C[2]+D	-	-	-	-
800AE + 800AT + 800ABTSE	B[2]+D	C+C	C+C	-	-	-	-
800AE + 800AT + 800PG	B+B	B+C[1]	C[2]+D	D+D	D+E[1]	D+E[1]	E+E
800AE + 800FPL + 800PG	B+C[1]	C+C	D+D	D[2]+E	D+E[1]	D+E[1]	E+E
800AE + 800AT + 800GA2	B+B	C+C	D+D	D[2]+E	D[2]+E	-	-
800AE + 800FPL + 800GA2	B[2]+C	C+C	D[2]+E	D[2]+E	E+E	-	-
ASTA **AE5** ED ACCESSORI BAR **AE5** AND ACCESSORIES SCHRANKENBAUM **AE5** UND ZUBEHÖRE LISSE **AE5** ET ACCESSOIRES BARRA **AE5** Y ACCESORIOS HASTE **AE5** E ACESSÓRIOS	LUNGH. ASTA / BAR LENGHT / SCHRANKENBAUMLÄNGE LONGUEUR LISSE / LONGITUD BARRA / COMPRIMENTO HASTE						
	4 ÷ 4,24 (m)	**4,25 ÷ 4,74 (m)**	**4,75 ÷ 5,24 (m)**	**5,25 ÷ 5,74 (m)**	**5,75 ÷ 6,24 (m)**	**6,25 ÷ 6,74 (m)**	**6,75 ÷ 7 (m)**
800AE5 + 800AT + 800PG8	B+A[2]	B+B	B[2]+C	-	-	-	-
800AE5* + 800PG8 + 800FPL	B+B	B[2]+C	C+C	-	-	-	-
800AE5 * + 800GA2 + 800FPL	B+C[1]	C+C	D+D	-	-	-	-
800AE5* + 800GA2 + 800AT	C+B[2]	C+C	D+D	-	-	-	-

Es: "C[1] ": La molla più robusta deve sempre essere installata dal lato passo carraio (1 fig. 6) - The strongest spring should always be installed on the boom's side (1 - pic. #6) - Die härtere Ausgleichsfeder muss neben den Schrankenbaum montiert werden (1 - Abb. 6) - Le ressort plus robuste doit être monté du côté de la lisse (1 - image 6) - El resorte más robusto tiene que ser puesto en el lado del hasta (1 - imagen 6) - A mola mais forte deve ser instalada no lado da haste (1 - imagem 6).

Es: "B[2] ": La molla meno robusta deve sempre essere installata dal lato passo carraio (1 fig. 6) - The weakest spring should always be installed on the boom's side (1 - pic. #6) - Die weniger harte Ausgleichsfeder muss neben den Schrankenbaum mon-

tiert werden (1 - Abb. 6) - Le ressort moins robuste doit être monté du côté de la lisse (1 - image 6) - El resorte menos robusto tiene que ser puesto en el lado del hasta (1 - imagen 6) - A mola menos forte deve ser instalada no lado da haste (1 - imagem 6).



La trave forata permette di determinare carichi massimi differenti (in relazione alla lunghezza dell'asta e degli accessori applicati ad essa) nelle varie posizioni (più ci si avvicina alla verticale, minore è il carico massimo).

The drilled beam allows to determine different maximum loads (in relation to the length of the bar and accessories applied) in the various positions (the nearer to the vertical, the lower the maximum load).

Der gebohrte Träger gestattet die festlegung anderer max. Lasten (in Abhängigkeit von der Länge der Stange sowie dem angebrachten Zubehör) in verschiedenen Positionen (je näher der vertikalen, desto geringer ist die max. Last).

Le faisceau perforé permet de déterminer les différentes charges maximales (par rapport à la longueur de la barre et des accessoires qui lui sont appliqués) dans les différentes positions (plus on se rapproche de la verticale, plus la charge maximale diminue).

El travesaño perforado permite determinar cargas máximas diferentes (con relación a la longitud del asta y de los accesorios aplicados en ella) en las distintas posiciones (más se acerca a la vertical menor será la carga máxima).

O feixe de perfuração permite detreminar a carga máxima (em relação ao comprimento da haste e acessórios aplicados) em várias posições (mais próximo do vertical, carga máxima menor).

ACCESSORI OPZIONALI / OPTIONAL ACCESSORIES / SONDERZUBEHÖR / ACCESSOIRES EN OPTION / ACCESORIOS OPCIONALES / ACESSÓRIOS OPCIONAIS

P-800CPL	Contropiastra di fondazione	Foundation counterplate	Fundamentgegenplatte	Contre-plaque de fondation	Controplaca de cimentación	Base para barreira
P-200BATT	Batteria 12V	Battery 12V	12V Batterie	Batterie 12V	Batería 12V	Bateria 12V
P-900OPTIC	Fotocellule	Photoelectric cells	Fotozellen	Photocellules	Fotocélulas	Fotocélulas
P-900TOWERM	Colonnina per da applicare su barriera h.10 cm	Photocell column to fit to barrer h.10 cm	otozellenstandsäule für Schranke, h.10 cm	Colonne pour photocellules à appliquer sur barrière, h.10 cm	Columna para fotocélulas para aplicar en barrera h.10 cm	Suporte lateral fotocélula h.10 cm
P-800AT	Forcella appoggio a terra regolabile per asta	Adjustable fork support for bar	Verstellbare bodenstütze für Schrankenbaum	Lyre de repos au sol réglable pour lisse	Horquilla de apoyo de pie ajustable para asta	Suporte regulável para haste
P-800FPL	Forcella elescopica appoggio pensile per asta ellittica	Wall-mounted fork support for elliptical bar	Auflagepfosten, höhenverstellbar, für Schrankenbaum aus Aluminium-Profil	Lyre de repos télescopique murale pour lisse elliptique	Horquilla telescópica de apoyo colgante para asta elíptica	Suporte para haste mural (hastes elípticas)
P-800GA2	Grembiulina in alluminio (passaggio utile max. 6m)*	Aluminium bar flap (passage max. 6 m)*	Aluminiumgittersprossen (Max. Tatsächliche Absperrbreite 6 m)*	Protection alu (passage utile max.6 m)*	Protección colgante de aluminio (paso libre max. 6 m, a fijar en la barrera)*	Saia para haste em alumínio (passagem util màx. 6 m)*
P-800LA	Cordone a led per segnalazione luminosa	LED line for light-signalling	LED-Leuchtelement für Leuchtanzeige	Cordon LED pour signalisation lumineuse	Tira de LED de señalización luminosa	LEDs para haste.
P-800LL	Cordone luminoso per armadio Luxe	LED bead on barrier cabinet	LED-Kette für Leuchtanzeige auf Schaltschrank Schranke	Bande led de signalisation lumineuse sur armoire barrière	Tira de LED de señalización luminosa en el armario de la barrera	LEDs para caixa da barreira.
P-800PG	Profilo in gomma per asta ellittica	Rubber bead for elliptical boom	Aufprallschutz für Schrankenbaum aus Aluminium-Profil	Profil en caoutchouc pour lisse elliptique	Perfil en goma anti-impacto para asta elíptica	Perfil de borracha para haste elíptica.
P-800ABTSE	snodo per asta ellittica	joint for elliptical bar	knickbaumeinrichtung	articulation lisse elliptique	articulación para barra elíptica.	articulación para barra elíptica.

*** Si sconsiglia l'installazione per uso intensivo - It is not reccomended the installation for intensive use - Nicht für intensiven Betrieb Geeignet - On déconseille l'utilisation pour usage intensif - Se desaconseja la instalación para uso intesivo - Não recomendado para uso intensivo.**

Italiano

I dati riportati nel presente manuale sono puramente indicativi. La TAU si riserva il diritto di modificarli in qualsiasi momento.
La Casa costruttrice si riserva il diritto di apportare modifiche o miglioramenti al prodotto senza alcun preavviso. Eventuali imprecisioni o errori riscontrabili nel presente fascicolo, saranno corretti nella prossima edizione.
All'apertura dell'imballo verificare che il prodotto sia integro. Riciclare i materiali secondo la normativa vigente.
L'installazione del prodotto dovrà essere effettuata da personale qualificato. La Ditta costruttrice Tau declina ogni responsabilità per danni derivanti a cose e/o persone dovuti ad un'eventuale errata installazione dell'impianto o la non messa a Norma dello stesso secondo le vigenti Leggi (vedi Direttiva Macchine).

English

The data described in this handbook are purely a guide. TAU reserves the right to change them in any moment.
The manufacturer reserves the right to modify or improve products without prior notice. Any inaccuracies or errors found in this handbook will be corrected in the next edition.
When opening the packing please check that the product is intact. Please recycle materials in compliance with current regulations.
This product may only be installed by a qualified fitter. The manufacturer declines all liability for damage to property and/or personal injury deriving from the incorrect installation of the system or its non-compliance with current law (see Machinery Directive).

Deutsch

Die beschriebenen Daten in der vorliegenden Betriebsanleitung sind rein indikativ. TAU behält sich vor, diese in jedem Moment zu modifizieren.
Der Hersteller behält sich das Recht vor, ohne vorherige Benachrichtung Änderungen oder Verbesserungen am Produkt anzubringen. Ungenauigkeiten oder Fehler, die in der vorliegenden Ausgabe festgestellt werden, werden in der nächsten Ausgabe berichtigt.
Beim Öffnen der Verpackung prüfen, dass das Produkt keine Schäden aufweist. Die Materialien nach den gültigen Vorschriften recyclen.
Die Installation des Produktes muss von Fachpersonal ausgeführt werden. Die Herstellerfirma TAU übernimmt keinerlei Haftung für Personen- und/oder Sachschäden aufgrund einer falschen Installation der Anlage oder der Nichtkonformität derselben mit den gültigen Gesetzen (siehe Maschinenrichtlinie).

Français

Les données décrites dans ce manual sont purement indicatives. La TAU se réserve le droit de les modifier à n'importe quel moment.
Le Constructeur se réserve le droit d'apporter des modifications ou des améliorations au produit sans aucun préavis. Les éventuelles imprécisions ou erreurs présentes dans ce fascicule seront corrigées dans la prochaine édition.
À l'ouverture de l'emballage, vérifier que le produit est intact. Recycler les matériaux suivant les normes en vigueur.
L'installation du produit devra être effectuée par du personnel qualifié. Tau décline toute responsabilité pour les dommages aux choses et/ou personnes dus à une éventuelle installation erronée de l'automatisme ou à la non-mise aux normes suivant les lois en vigueur (voir Directive Machines).

Español

Los datos describidos en este manual son puramente indicativos. La TAU se reserva el derecho de modificarlos en cualquier momento.
El Fabricante se reserva el derecho de modificar o actualizar el producto sin aviso previo. Posibles imprecisiones o errores en este manual serán corregidos en la próxima edición.
Cuando abra el embalaje, controle que el producto esté íntegro. Recicle los materiales según la normativa vigente.
La instalación del producto tiene que ser efectuada por personal cualificado. El Fabricante Tau no se asume ninguna responsabilidad por lesiones a personas o averías a cosas causadas por una instalación incorrecta del equipo o la por la inobservancia de la normativa vigente (véase Directiva de Máquinas).

Português

Os dados descritos neste manual são puramente indicativos. A TAU reserva-se no direito de o modificar a qualquer momento.
O fabricante reserva-se no direito de modificar ou actualizar o produto sem aviso prévio. Possíveis imprecisões ou erros neste manual serão corrigidos na próxima edição / revisão.
Ao abrir a embalagem certifique-se que o produto está intacto. Recicle os materiais segundo as normas em vigor.
Este producto só pode ser instalado por um técnico qualificado. O fabricante TAU declina qualquer responsabilidade por danos pessoais ou materiais resultantes de uma instalação incorrecta do equipamento ou a sua não conformidade com a norma vigente (Ver Directiva de Máquinas).

Descrizione e caratteristiche / Description and characteristics / Baschreibung und Merkmale
Description et caractéristiques / Descripción y características / Descrição e características

Le barriere della serie **LUXE** sono di tipo elettromeccanico, ideali per controllare e gestire parcheggi e ingressi privati o pubblici. **SI FA ESPRESSO DIVIETO DI UTILIZZARE L'APPARECCHIO PER SCOPI DIVERSI O IN CIRCOSTANZE DIVERSE DA QUELLE MENZIONATE.**

The **LUXE** series barriers are electromechanical and are ideal for the control and management of private or public entrances and car parks. **THE USE OF THE EQUIPMENT FOR PURPOSES OR CIRCUMSTANCES OTHER THAN THOSE MENTIONED IS STRICTLY PROHIBITED.**

Bei den Schranken der Serie **LUXE** handelt es sich um elektromechanischen Schranken, die ideal zur Überwachung und Verwaltung von Parkplätzen und privaten oder öffentlichen Einfahrten sind. **ES IST AUSDRÜCKLICH VERBOTEN, DAS GERÄT FÜR ANDERE ZWECKE ODER ANDERE BEDINGUNGEN ALS ERWÄHNT ZU BENUTZEN.**

Les barrières de la série **LUXE** sont de type électromécanique, idéales pour contrôler et gérer des parkings et des accès privés ou publics. **IL EST STRICTEMENT INTERDIT D'UTILISER L'APPAREIL DANS DES BUTS OU DES CONTEXTES DIFFÉRENTS DE CEUX QUI SONT INDIQUÉS.**

Las barreras de la serie **LUXE** son de tipo electromecánico, perfectas para controlar aparcamientos y entradas privadas o públicas. **QUEDA TERMINANTEMENTE PROHIBIDO UTILIZAR EL APARATO PARA FINES DISTINTOS O EN CIRCUNSTANCIAS DISTINTAS DE LAS QUE SE CITAN.**

As barreiras automáticas eletromecânicas **LUXE** foram projetadas para uso em acessos e parques públicos ou privados. **E' ESTRITAMENTE PROIBIDO O USO DO EQUIPAMENTO FORA DAS CONDIÇÕES AUTORIZADAS.**

	LUXE - LUXE/I
Frequenza - Frequency - Frequenz - Fréquence - Frecuencia - Frequência	50 - 60 Hz
Alimentazione - Power - Stromversorgung - Alimentation - Alimentación - Alimentação	230 V AC ±10%
Potenza assorbita - Absorbed power - Leistungsaufnahme Puissance absorbée - Potencia absorbida - Potência absorvida	300 W
Motore - Motor - Motor - Moteur - Motor - Motor	18 V DC
Corrente assorbita motore (max.) - Motor absorbed current (max.) - MotorStromaufnahme (max.) Courant absorbé moteur (max.) - Corriente absorbida motor (max.) - Corrente absorvida motor (max.)	2,8 A
Coppia max. - Max. torque - Max. Drehmoment - Couple max. - Par max. - Torque máx.	300 Nm
Rapporto di riduzione - Reduction ratio - Untersetzungsverhältnis Rapport de réduction - Relación de reducción - Rácio de redução	1/512
Tempo minimo di apertura - Min. opening time - Mindestzeit Öffnungszeit Temps min. d'ouverture - Tiempo mínimo de apertura - Tempo de abertura mínimo	6 sec.
Grado di protezione - Protection level - Schutzart Degré de protection - Grado de protección - Grau de protecção	IP 54
Ciclo di lavoro - Work cycle - Arbeitszyklus - Cycle de travail - Ciclo de trabajo - Factor de serviço	100 %
Temperatura di esercizio - Operating temperature - Betriebstemperatur Temperature de fonctionnement - Temperatura de trabajo - Temperatura de trabalho	-20°C ÷ +55°C
Lunghezza min. asta - Min. bar lenght - Min. Schrankenbaumlänge Longueur min. Lisse - Longitud min. barra - Comprimento haste mín.	4 mt
Lunghezza max. asta - Max. bar lenght - Max. Schrankenbaumlänge Longueur max. Lisse - Longitud max. barra - Comprimento haste máx.	7 mt
Peso - Weight - Gewicht - Poids - Peso - Peso	70 Kg

Quando il sistema in 12V DC è alimentato unicamente dalla batteria (in caso di black-out oppure in abbinamento con pannello fotovoltaico), le prestazioni espresse dal motoriduttore (forza e velocità) si riducono del 30% ca.

When the system is in the 12V DC mode and is powered by the battery only (in the event of a power failure or when used in conjunction with a photovoltaic panel), the gear motor's output (power and speed) is reduced by approximately 30%.

Anmerkung: wenn das 12V DC System nur über Batterie gespeist ist (bei Stromausfall oder in Kombination mit einem Photovoltaicpaneel), verringern sich die leistungen des Getriebemotors (Kraft und Geschwindigkeit) um ca. 30%.

Attention : quand le système à 12V CC est alimenté uniquement par la batterie (en cas de coupure de courant ou bien en association avec un panneau photovoltaïque), les performances du motoréducteur (force et vitesse) diminuent d'environ 30% .

Nota: cuando el sistema de 12V DC es alimentado únicamente por la batería (en caso de corte de corriente, o bien combinado con panel fotovoltaico), las prestaciones del motorreductor (fuerza y velocidad) se reducen en un 30%.

Nota : Quando o sistema de 12VDC é alimentado únicamente pela bateria (em caso de falha de corrente ou quando usado em combinação com painel fotovoltáico) as prestações do motor (velocidade e força) reduzem-se aproximadamente em 30%.

INSTALLATION WARNINGS - GENERAL SAFETY REQUIREMENTS

1) **Carefully read all instructions before installation, as they provide important instructions regarding the safety, installation, operation and maintenance. Incorrect installation or use of the product may lead to serious physical injury.**
2) Never leave packaging materials (plastic, polystyrene etc.) within the reach of children as they constitute a potential hazard.
3) Keep the instructions in a safe place for future consultation.
4) This product has been designed and constructed exclusively for the use specified in this documentation. Any other use not specified herein may impair product integrity and/or constitute a hazard.
5) TAU Srl declines all liability for improper use or use other than as specified for this automation.
6) Do not install the unit in an explosive environment: the presence of either gas or flammable fumes is a serious safety risk.
7) The mechanical elements must comply with the requirements as stated in the standards EN 12604 and EN 12605. For non European member states, in addition to the national reference standards, the above-mentioned standards must be observed to ensure an adequate level of safety.
8) TAU Srl is not responsible for failure to observe Good Practice in construction of the gates/doors to be power-operated, nor any deformations occurring during use.
9) Installation must be performed in compliance with the standards EN 12453 and EN 12445. For non European member states, in addition to the national reference standards, the above-mentioned standards must be observed to ensure an adequate level of safety.
10) Before performing any operations on the system, disconnect from the mains and detach the batteries.
11) On the automation power line, install a device for disconnection from the power mains with a gap between contacts equal to or greater than 3 mm. Use of a 6A thermal magnetic circuit breaker with multi-pole switch is recommended.
12) Check upline of the system that there is a residual current circuit breaker with a threshold of 0.03 A.
13) Ensure that the earthing system is to professional standards and connected to the metal section of the gate/door.
14) The automation is equipped with an intrinsic anti-crushing safety device comprising a torque control. The trip threshold must in all cases be checked as stated in the standards specified in point 9.
15) The safety devices (standard EN 12978) enable the protection of danger areas from **risks associated with mechanical movements** such as crushing, dragging and shearing.
16) The use of at least one luminous indicator is recommended for each system (900T-LED, 800LA, 800LL), as well as a warning notice fixed suitably to the frame structure, in addition to the devices specified in point 15.
17) TAU declines all liability for the safety and efficient operation of the automation in the event of using system components not produced by TAU.
18) For maintenance, use exclusively original TAU parts.
19) Never modify components that are part of the automation system.
20) The installer must provide all information regarding manual operation of the system in the event of an emergency and supply the system User with the "User Guide" enclosed with the product.
21) Never allow children or other persons to stay in the vicinity of the product during operation.
22) Keep all radio controls or other pulse supplier device out of the reach of children to prevent inadvertent activation of the automation.
23) Transit should only occur with the automation stationary.
24) The user must never attempt to repair or intervene directly on the product; always contact qualified personnel for assistance.
25) It is strictly forbidden to use high pressure water cleaners or jets of water in general to clean the automation.
26) Maintenance: at least every six months, make a general check of the system, with special reference to the efficiency of the safety devices (including, when envisaged, the operator thrust force) and release mechanisms.
27) **All actions not expressly envisaged in these instructions are strictly prohibited.**

1. CONDITIONS OF USE

The LUXE automatic barrier has been designed for use in private or public car parks, residential areas or areas of intense traffic.

2. OVERALL DIMENSIONS

The main dimensions of the barrier are indicated in pic. # 1; pic. # 2 illustrates the dimensions of the foundation base plate.

3. INSTALLATION

Installation must be carried out by skilled and qualified personnel in compliance with the regulations in force.

3.1 Preliminary checks

For the safety and correct operation of the automation, check the following:
- While moving the barrier must meet no obstacle or aerial power cables.;
- The characteristics of the ground must guarantee sufficient hold for the foundation plinth;
- A suitable omnipolar circuit breaker with a distance greater than 3mm between contacts must be provided to isolate the supply;
- There must be no pipes or electrical cables in the area where the plinth foundation is excavated;
- If the barrier is exposed to passing vehicles, provide suitable protection to avoid accidental collisions;
- Check there is an efficient earthing device to connect the cabinet;
- There must be suitable piping and tracks for electrical cables to guarantee they are not damaged.

3.2 Cables typology

Connection	Type of cable	Cable l. 1 < 10 m	Cable l. 10 < 20 m	Cable l. 20 < 30 m
230v supply	FROR CEI 20-22 CEI EN 50267-2-1	3 x 1,5 mm²	3 x 2,5 mm²	3 x 4 mm²
Photocell transmitters		2 x 0,5 mm²	2 x 0,5 mm²	-
Photocell receivers		4 x 0,5 mm²	4 x 0,5 mm²	-
Accessory 24v power supply		2 x 0,5 mm²	2 x 1 mm²	-
Control devices		2 x 0,5 mm²	2 x 0,5 mm²	2 x 0,5 mm²
Aerial	RG58	Cable supplied		
Metal mass sensor	See relative instructions			

NOTE: If the length of the cables is not as stated in the table, determine the cable section on the basis of the real draw of the connected devices and in compliance with the IEC EN 60204-1 Standard.

As to connections with numerous loads on the same line (in sequence), dimensions must be recalculated on the basis of the real draw and distance. As to the connection of any products not dealt with in this manual, the documents attached to the products themselves must be consulted.

3.3 Typical system (pic. 11)

1. Luxe cabinet
2. Control panel
3. Aluminium bar
4. LED strip
5. Bar gasket
6. LED display
7. Aerial
8. Photocell pillar
9. Photocells
10. Photocell side support
11. Bar rest (fixed)
12. Metal mass sensor

3.4 Automation base preparation

Wall the foundation plate so that the barrier door and the releasing handle are easy to access.

Create a rectangular, suitably sized floor slab (A pic. # 3) with the holes for the exiting cables. Use the foundation counterplate (B pic. 3), with the 4 anchors supplied to be buried in concrete; or, once the floor slab is completed, fix the cabinet to the barrier with 4 M10x120 foundation plugs (C pic. 3). The slab thickness must be at least 10cm and can be increased as required.

3.5 Installation of the barrier group

Without bar and springs, the barrier must be positioned as follows:

- remove nuts and washers from the protruding bolts, position the cabinet on the base and fix it. Check it is anchored securely and correct if necessary.

Note: it is advisable to install the cabinet with the door on the side more easily accessible.

- Open the door with the relative key and remove.

LUXE is normally delivered RIGHT (RH), with the bar support in a horizontal position. Right-hand barriers (RH) are barriers that have the cabinet on the right-hand side viewed from the inside of the passageway (the door is normally on the inside). If it is necessary for it to be LEFT (LH), the opening must be inverted.

Proceed as follows:

1_ after removing the eye screws and the circlips, take the pins and reposition them, symmetrically, on the opposite side of the drilled beam (pic.4A), fix with the circlips and screw the screws in again;

2_ after removing the locking screw and washer, remove the bar balancing lever. In the spring supporting group, invert the position of the pin (1 pic. 4B), rotate the whole block by 180° (in respect of the previous position) and fix the motor shaft again with bolt and washer (pic. 4C);

3_ once the opening direction has been modified, invert the motor connections (see K206MA instructions).

The drilled beam allows to determine different maximum loads (in relation to the length of the bar and accessories applied) in the various positions (the nearer to the vertical, the lower the maximum load).

Once the opening direction is modified, the positioning of the devices must be inverted.

If the barrier must be modified from LH to RH, the operations are the same.

3.6 Bar fixing, spring fitting and bar balancing

All operations must be carried out with the power OFF.

After releasing the automation (see the "Manual release" chapter), proceed as follows:

1_ using a support, bring the bar in the horizontal position (wholly assembled and with all the accessories) near the bar support and fix with the omega bracket and the screws supplied (pic. 5A);
Note: the bar must be inserted for the whole length of the omega bracket.

2_ when the omega bracket is fixed, and after removing the protective cap, pass the LED cable through the hole on the cabinet (to take the cable to the control unit, refer to figure 9) then fit the cover and secure it with the screws supplied (pic. 5B);

3_ place the bar in a vertical position and block the gearmotor (see the "Manual release" chapter).

Fit the springs hooking them to the eye screws and rotate manually in the direction of the arrow for the first preload (pic. 5C).

Continue with bar balancing.

Before balancing the bar check on the table on page 6 the chosen spring, accessories to be applied and distance are adequate. Correct balancing is vital for the barrier to work properly.

This operation must be carried out only when the bar has been installed permanently with all its accessories.

pic. 6: operate the manual release (see the "Manual release" chapter) keeping at a safe distance. The bar must move to 30° on its own, if that is not the case load/unload the springs (if the bar lifts above 30° the springs need to be unloaded, that is they have to be rotated manually in an anticlockwise direction, if it does not reach 30°, the springs must be loaded, that is rotated manually in a clockwise direction). Lower the bar and release it, checking it has reached 30°.

For the barrier to work correctly, when loading/unloading the springs, keep the same protrusion for the eye screws (pic. 5C).

Continue with the electrical connections to the control panel (see the chapter on electrical connections).

Note: check the spring works correctly.

IMPORTANT! For a correct operation of the barrier, when the boom is in vertical position the springs must not be completely unloaded.

3.7 Manual release

WARNING! Releasing and any other manual operation must be carried out only with the bar fitted. It is absolutely forbidden to operate the barrier without the bar fitted.

1_ Insert the key into the handle lock on the back of the cabinet and rotate by 180° in an anticlockwise direction (pic. 7A);

2_ take the handle out and rotate by 90° in an anticlockwise direction to release the bar (if it seems to resist, apply more strength onto the handle since this will cause no breakage), pic. 7B.

When released, the bar must automatically go to the balance position (ca. 30°).

WARNING! Releasing can be potentially dangerous for the user when for any reason whatsoever (bar badly fitted during installation, bar broken due to an accident, etc.) the springs do not guarantee balancing any longer!
They can cause the bar coupling and/or the bar itself to rotate suddenly.

3.8 Stop adjustment

The barrier is normally supplied with the stops already adjusted for perfect travel.
If the plate has not been cemented properly, the bar might not be perfectly horizontal or vertical and the installation might not be successful from an aesthetic point of view.
To correct the vertical position (=opening), close the bar, open the door and rotate the free stopper (1 pic. 8) in a clockwise (to increase the bar travel) or anticlockwise direction (to reduce the bar travel).
Similarly, to correct the horizontal position (=closing), open the bar and adjust the free stopper (2 pic. 8).
After checking and adjusting the bar opening and closing operation, tighten the locknuts under the stoppers.

Whenever the position of the mechanical stops is modified, the saving procedure on the control card must be performed (see K206MA instructions).

When adjustment has been completed, carry out the saving procedure onto the control card (see K206MA instructions), checking the correct position of the bar from the second automatic operation (the first is used by the control unit to accept the new stops); repeat the procedure as required.
When all the mechanical and electronic installation is complete, fix the cabinet cover, reposition the door and lock.

3.9 Electrical connections

All devices, supply included, must be installed up to standard and in compliance with the regulations in force. Separate the power cables from the control cables, above all if the paths are long (over 50m). As to the cable section (aerial excluded), TAU recommends: supply 1.5mm², other cables 0.5mm², follow anyway IEC 364 and the installation regulations in force in your country. To access the control card, remove the cabinet cover (1 pic. 9) after removing the locking screws and washers. It is then possible to reach the connections.
Note: internal connections are already made and tested. The supply, external photocell, LEDs and any remote controls must be connected and the card must be programmed.

3.10 Last operations

When the correct operation of all devices controlling the bar has been checked, make sure everything is reset before handing over to the users. Place signs warning people about the barrier where they can be easily read.

4. USE

The barrier has been exclusively designed to limit the flow of vehicles and/or persons in restricted entrances by means of a bar. In the event of blackout, functioning can be guaranteed by means of an optional 12V dry battery.
Furthermore, it also comprises electrical equipment and therefore must be approached and used with caution and foresight. In particular we recommend:

- not to touch the equipment with wet hands and/or bare or wet feet;
- not to perform the automatic or semiautomatic function in the presence of known or suspected malfunctions;
- not to pull the cable to disconnect the equipment;
- not to let children, or those unable, use the cabinet keys or controls (including remote controls) even if only to play with;
- not to operate the barrier until it is completely in view;
- not to enter within the operating range while it is moving, wait for it to stop;
- not to rest against the bar or cabinet for any reason, even when the barrier is inactive and do not remain within the operating range of the barrier;
- not to let children or animal play within the operating range of the barrier;
- not to use the barrier for purposes (e.g. lifting of weights or persons) other than those foreseen. The manufacture holds no responsibility what so ever for damages caused by the said actions;
- to perform periodic maintenance by specialised personnel;
- if there is a fault, turn off the power supply. Use the manual manoeuvre only if safe. Do not attempt to resolve the problem yourself, contact a qualified technician of the manufacturer or authorised by the manufacturer. In any case, make sure that the spare parts are original so that the safety of the barrier is not compromised.

5. MAINTENANCE

To be performed by specialised personnel only after having turned off the power supply.
After every 100,000 manoeuvres, check:

- the greasing of the springs;
- the balance of the bar (see chapter “Bar fixing, spring fitting and bar balancing”);
- the efficiency of the force;
- the integrity of the battery, if present;
- The efficiency of the protection and safety devices;
- the wear on the mechanical stops and the adjustment of the limit switches (see chapter “Limit switch adjustment”).

The above mentioned maintenance is vital in order that the product functions correctly throughout time.

In general
It must be impossible for third parties to operate the barrier during maintenance; therefore turn off the mains power supply (and battery if present).

- Release the bar first in order to facilitate the operation.

Greasing
1_ open the cabinet door;
2_ lubricate with grease both the screw eye of the balancing spring (1 pic. 10) and the ball joint on the balancing lever (3 pic. 10);
3_ grease the contact points between the cam of the manual release and the release lever (2 pic. 10);
4_ keep away from possible moving gears or mechanical parts.
FREQUENCY: every 100,000 manoeuvres or 6 months, **failing which the guarantee lapses**.
N.B it is highly recommended to use high resistance grease based on calcium soap.

Bar balancing
Check the bar is balanced correctly repeating the operations described in "Bar fixing, spring fitting and bar balancing". This operation is fundamental for the correct functioning and duration of the barrier. If necessary, increase the preloading of the springs in order to compensate for its wear. See the subsequent paragraph "Extraordinary maintenance and repairs" in the event the springs need to be changed.
FREQUENCY: every 100.000 manoeuvres or 6 months, **failing which the guarantee lapses**.

Control of the force limitation efficiency
Check the correspondence between the true operation and the operation established during installation.
FREQUENCY: every 100.000 manoeuvres or 6 months, **failing which the guarantee lapses**.

Control of the 12V dc battery
Check the charge level of the battery by means of a tester. If replacement is necessary, substitute the flat battery with an original and do not dispose of it in the environment.
FREQUENCY: every 100.000 manoeuvres or 6 months, **failing which the guarantee lapses**.

Control of the remaining protection and safety devices
Photocells: they can trigger both in opening as well as in closing; check the dip-switch programming. Clean the outer casing.
Check that the following specifications are respected:
- The flashing light is working and visible;
- The adhesive danger sign on the door is well attached and visible;
- The adhesive danger sign on the back of the barrier is well attached and visible. If these signs do not correspond to the stated conditions, restore their original effectiveness or, if this is impossible, replace them.

FREQUENCY: every 6 months, **failing which the guarantee lapses**.

6. EXTRAORDINARY MAINTENANCE AND REPAIRS

ATTENTION: ON COMPLETION OF THE FIRST 2000 MANOEUVRES, THE ROD BALANCING PROCEDURE MUST BE CARRIED OUT AGAIN.
If a complicated repair or replacement of electromechanical parts is necessary, the unit in question (control unit, gearmotor unit) should be removed in order for the repair to be carried out by the manufacturer or by authorised technicians. Otherwise, the safety and reliability of the barrier may be reduced (such as the guarantee for example).

If the barrier is used in a saline environment or an environment that is highly contaminated by corrosive chemical reactants, the frequency of the maintenance controls must be increased due to the increased environmental deterioration; In this case the external metal cabinet should also be inspected.

7. TROUBLESHOOTING

This paragraph deals with the most probable causes of common faults, in order to promptly re-establish the barrier.
In any case the indicated case study is incomplete (both from a cause point of view as well as a fault point of view).

a_ The barrier is blocked (open, closed or half-open):
1_ no power supply;
2_ inefficient commands;
3_ blown power supply fuse;
4_ photocells (also enabled during opening) active because they are incorrectly aligned and/or covered (grass, etc);

b_ the barrier continues to open and close;
1_ check the false contacts of the remote control buttons and the key selector switches that remain on;

c_ the barrier remains open;
1_ the photocells are active because they are not aligned and/or dirty (mud, etc) and/or covered (grass, etc);

d_ the barrier has difficulty in opening;
1_ the bar balancing spring needs adjusting;

e_ the barrier lifts/lowers more than the foreseen limits;
1_ the mechanical limit switches need adjusting (see chapter "LIMIT SWITCH ADJUSTMENT").

8. DECOMMISSION

When the barrier has reached the end of its useful life it should be removed and the reusable materials should be recycled. Pay attention to that which is stipulated by local and/or national laws and regulations. Care should be taken when recycling the following parts:
- cabinet painted with epoxy paint
- methacrylate flashing light dome
- ABS control unit box
- electronic cards
- 12V dc dry battery (lead acid)
- lithium grease inside the reduction gear
- minor plastic and/or rubber connections and protections.

RESPECT THE ENVIRONMENT!
DISMANTLING WARNINGS: the barrier dismantling operations must respect the safety measures: therefore, disconnect the power supply before proceeding. Slacken (not completely) the springs adjusting tie-rods so that the bar can be comfortably and safely removed. Then unscrew the blocking screws on the base of the cabinet in order to process as desired.

9.TRANSPORT

The bar, which can be purchased on request, is packed separately from the barrier that is packaged in a cardboard box.
Care and attention must be taken throughout the handling phase. Ideally, a manual or motorised trolley should be used for lifting and move-

ment. The items must be stored upright, even for short periods, respecting the direction that is indicate on the packaging and taking into consideration that high centres of gravity cause instability.
The bar must be stored making sure that there are no protruding parts or loads that could damage it. Once unpacked, make sure that it is intact.
Do not discard the packaging, but rather recycle it following local laws.

WARNING: to prevent suffocation or similar dangers, do not allow children to handle the packaging.

10. GUARANTEE: GENERAL CONDITIONS

TAU guarantees this product for a period of 24 months from the date of purchase (as proved by the sales document, receipt or invoice).
This guarantee covers the repair or replacement at TAU's expense (ex-works TAU: packing and transport at the customer's expense) of parts that TAU recognises as being faulty as regards workmanship or materials.
For visits to the customer's facilities, also during the guarantee period, a "Call-out fee" will be charged for travelling expenses and labour costs.

The guarantee does not cover the following cases:

- If the fault was caused by an installation that was not performed according to the instructions provided by the company inside the product pack.
- If original TAU spare parts were not used to install the product.
- If the damage was caused by an Act of God, tampering, overvoltage, incorrect power supply, improper repairs, incorrect installation, or other reasons that do not depend on TAU.
- If a specialised maintenance man does not carry out routine maintenance operations according to the instructions provided by the company inside the product pack.
- Wear of components.

The repair or replacement of pieces under guarantee does not extend the guarantee period.
In case of industrial, professional or similar use, this warranty is valid for 12 months.

ENGLISH

MANUFACTURER'S DECLARATION OF INCORPORATION
(in accordance with European Directive 2006/42/EC App. II.B)

Manufacturer: TAU S.r.l.
Address: Via E. Fermi, 43 - 36066 Sandrigo (Vi) - ITALY

Declares under its sole responsibility, that the product: *Electromechanical actuator*
designed for automatic movement of: *Road Barriers*
for use in a: *General environment* complete with: *Electronic control unit and radioreceiver*

Model: *LUXE* Type:*LUXE - LUXE/I*
Serial number: *SEE SILVER LABEL* Commercial name: *AUTOMATIC BARRIER*

Has been produced for incorporation on an access point (*automatic barrier*) of for assembly with other devices used to move such an access point, to constitute a machine in accordance with the Machinery Directive 2006/42/EC.

Also declares that this product complies with the essential safety requirements of the following EEC directives:
- ***2014/35/EU Low Voltage Directive*** - ***2014/30/EU Electromagnetic Compatibility Directive***

and, where required, with the Directive: - ***2014/53/EU Radio equipment and telecommunications terminal equipment***

Also declares that ***it is not permitted to start up the machine*** until the machine in which it is incorporated or of which it will be a component has been identified with the relative declaration of conformity with the provisions of Directive 2006/42/EC.

The following standards and technical specifications are applied:EN 61000-6-2; EN 61000-6-3; EN 60335-1; ETSI EN 301 489-1 V1.9.2; ETSI EN 301 489-3 V1.6.1; EN 300 220-2 V2.4.1; EN 12453:2000; EN 12445:2000; EN 60335-2-103.

The manufacturer undertakes to provide, on sufficiently motivated request by national authorities, all information pertinent to the quasi-machinery.

Sandrigo, 12/09/2017

Legal Representative

Loris Virgilio Danieli

Name and address of person authorised to draw up all pertinent technical documentation:
Loris Virgilio Danieli - via E. Fermi, 43 - 3606 Sandrigo (Vi) Italia

VIDEO TUTORIAL :

Come programmare il led semaforico di una barriera

How to programme the traffic light led of an automatic barrier

Comment programmer le led de signalisation d'une barrière automatique

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