

Dismantling of factory-mounted parts

If necessary dismantle the factory-mounted parts, as follows, to make the fixing holes accessible.
(Single-sliding left opening operator shown.)

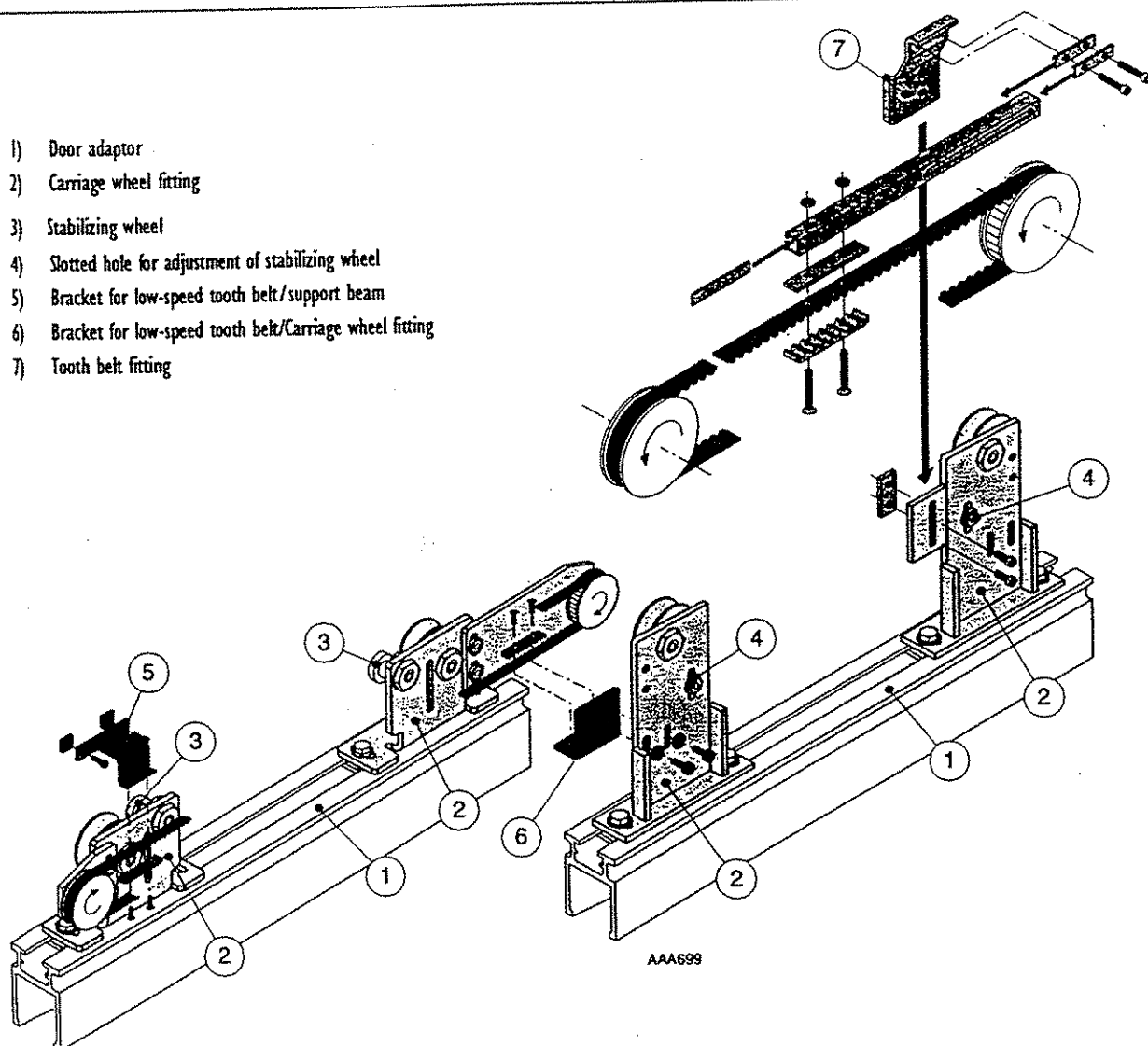


Fig 3c

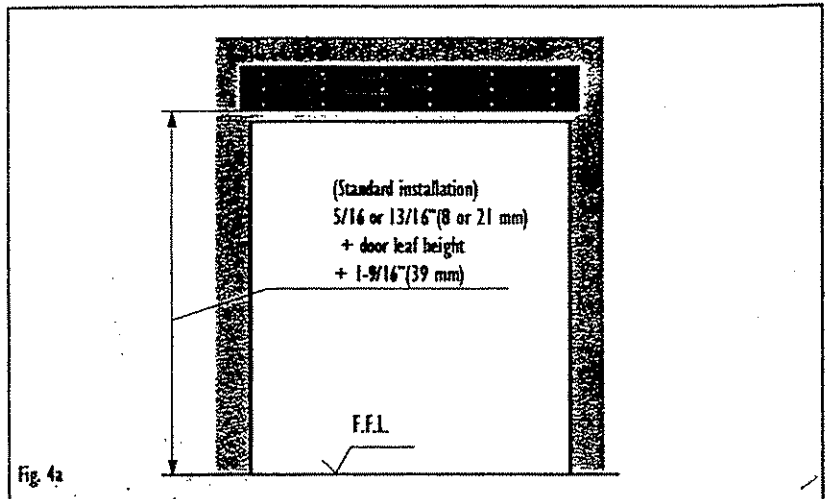
1. Remove the cover (see pages 28, 29 and 30).
2. Dismantle the door adaptors (1) from the carriage wheel fittings (2) (see also page 15).
3. Lower all the stabilizing wheels (3) (eccentric shafts for inner and slotted holes (4), for outer door leaf).
4. Unscrew the two brackets (5) and (6), attached to the inner low-speed tooth belt, from the support beam and from the carriage wheel fitting.
5. Unscrew the tooth belt fittings (7) from the carriage wheel fitting (2).
6. Lift off the carriage wheel fittings/low-speed tooth belts from the sliding track.
7. Dismantle, if necessary, the control unit, emergency/extension unit and the power supply unit.

Installation of the support beam

Installation height

Note!

When determining the installation height it is very important to measure from the highest point of the floor so that the door leaves do not jam when opening or closing.



From the finished floor to the lower edge of the support beam, the height should be as follows:

Standard installation (see fig. 4a)

5/16" (8 mm) for recess mounted (21 mm) for surface mounted threshold (Besam standard floor guides)
 + door leaf height
 + 1-9/16" (39 mm) (Besam standard door adaptor/carriage wheel fitting)

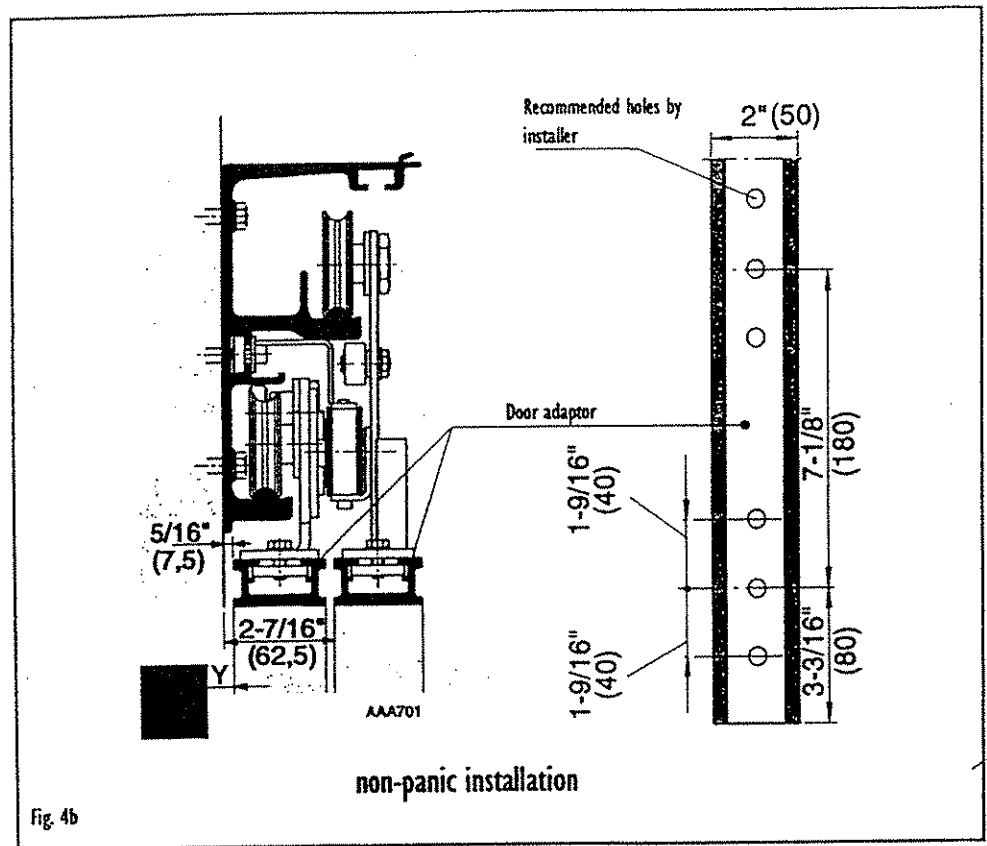
Installation with panic break-out fittings PSB-T

5/16" (8 mm) for recess mounted (21 mm) for surface mounted threshold (Besam floor guides type PSB-T)
 + door leaf height
 + 3-1/8" (77 mm) (Besam panic door adaptor/carriage wheel fitting)
 (See also separate installation instructions GB-0775.)

Installation

1. Mark the lower edge of the support beam on the overhead fixing. Make sure that the support beam is level.
2. Place the support beam up in the correct position and mark all fixing points.
3. Drill the holes, tap or insert them on 18" (457mm) centers (max.)
4. If the overhead fixing is not flat use shims behind the support beam, then fix the support beam using bolts.

Installation of the door adaptor on the top of the door leaf



1. If necessary cut the door adaptors to correspond with the door leaf width (usually done at the factory).
2. Make sure that the upper part of the door leaf is sufficiently reinforced.
3. Establish "Y"; the distance between the door leaf and the fixed screen, considering door design and weather stripping.
4. Place the door adaptor on top of the door leaf. The distance "Y" serves to ensure a correct depth installation. Take into account weather stripping where used.
5. Mark on the door leaf after the pre-drilled holes. One hole in each group of three has to be used as the attachment carries the whole weight of the door leaf.
6. Drill and tap for #1/4-20(M6) in the door leaf.
7. The door adaptor can be roughly adjusted for depth, $\pm 3/16"$ (5 mm), in relation to the door leaf. This rough adjustment is to be carried out when the door adaptor is fitted on the door leaf.
8. Fasten the door adaptor with Allen screws and washers.

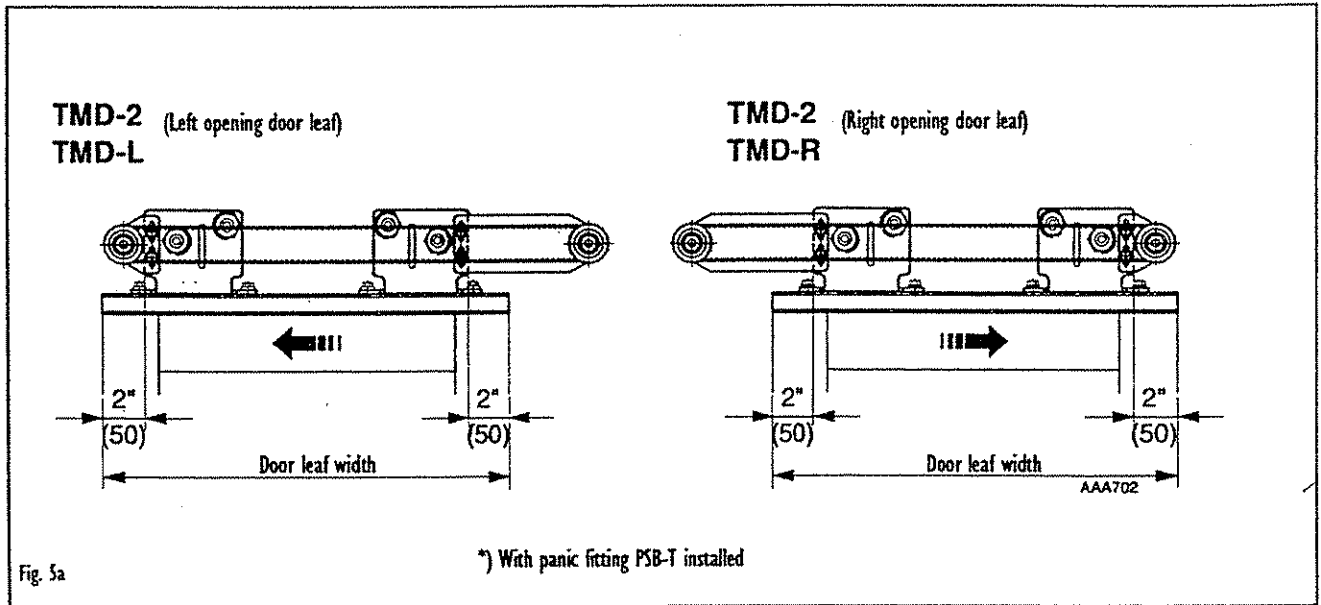
If panic break-out fittings are to be installed, a special panic adaptor has to be ordered and then always cut to size. See separate installation instructions GB-0775.

Installation of the carriage wheel fittings on the door adaptor

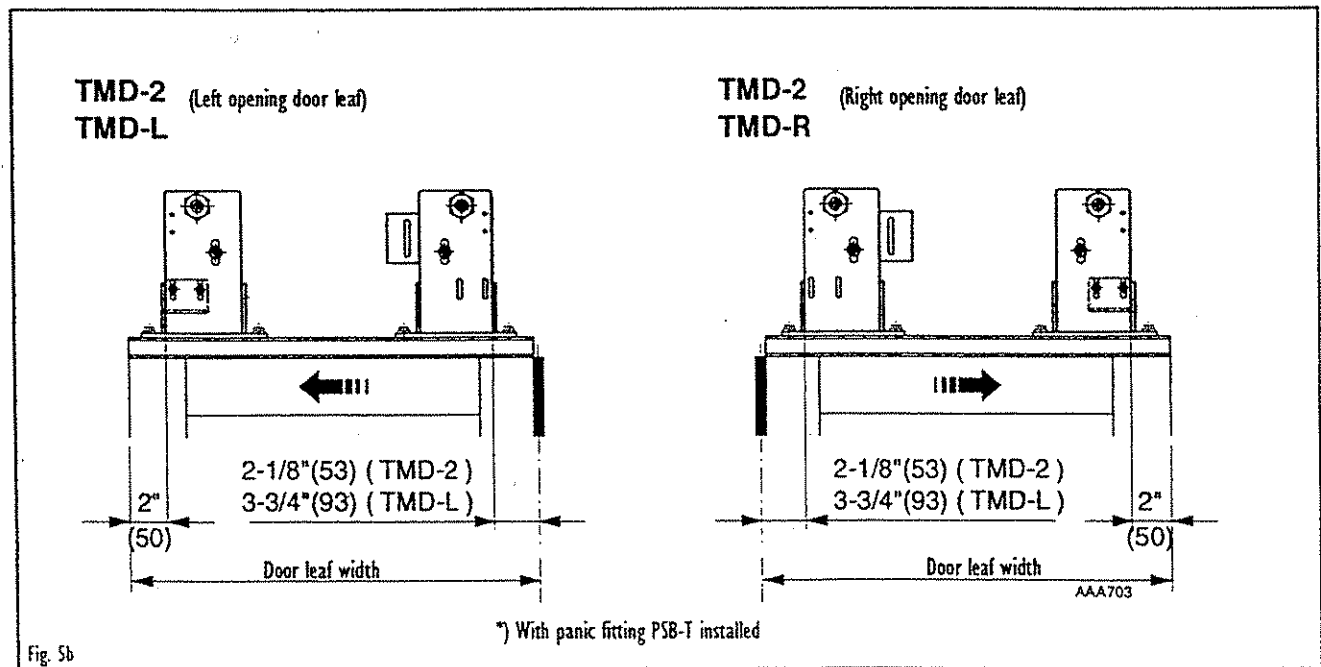
Install the carriage wheel fittings on the door adaptor in accordance with the figures below and fig. 5c and 5d on page 15.

Note! Make sure that the carriage wheel fittings are correctly installed, i.e. correctly turned, and completely in line with the door adaptor.

Slow-moving inner door leaf

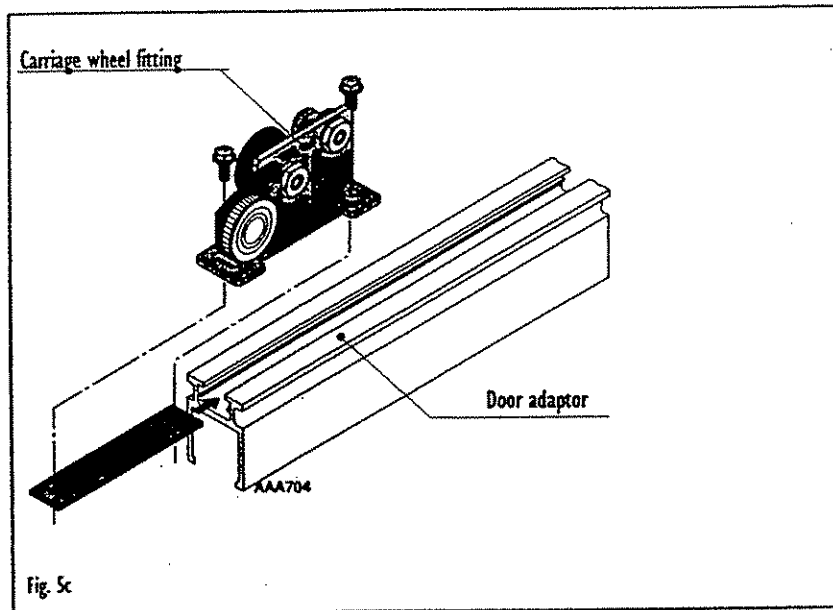


Fast-moving outer door leaf

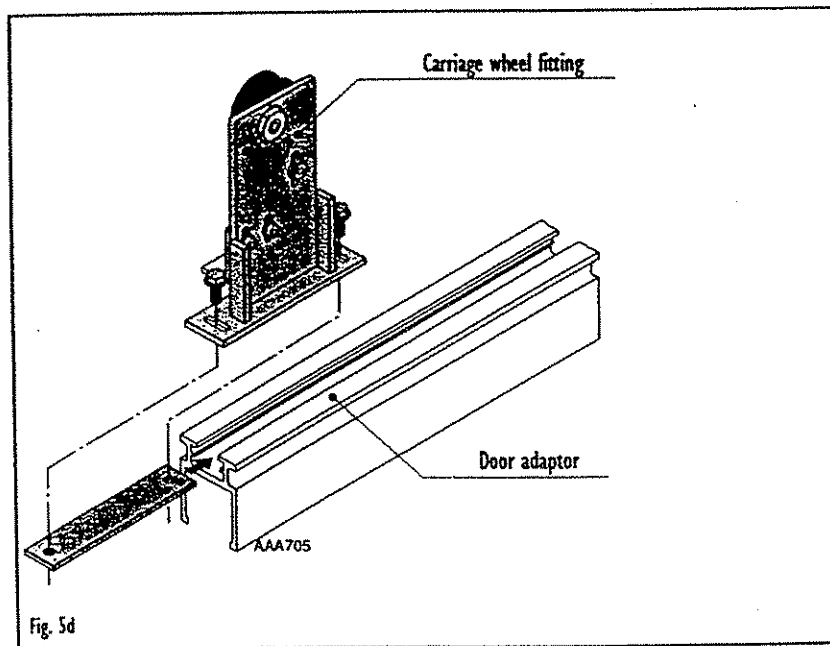


Fastening the carriage wheel fittings

Low-speed inner door leaf



High-speed outer door leaf



Installation of the door leaves

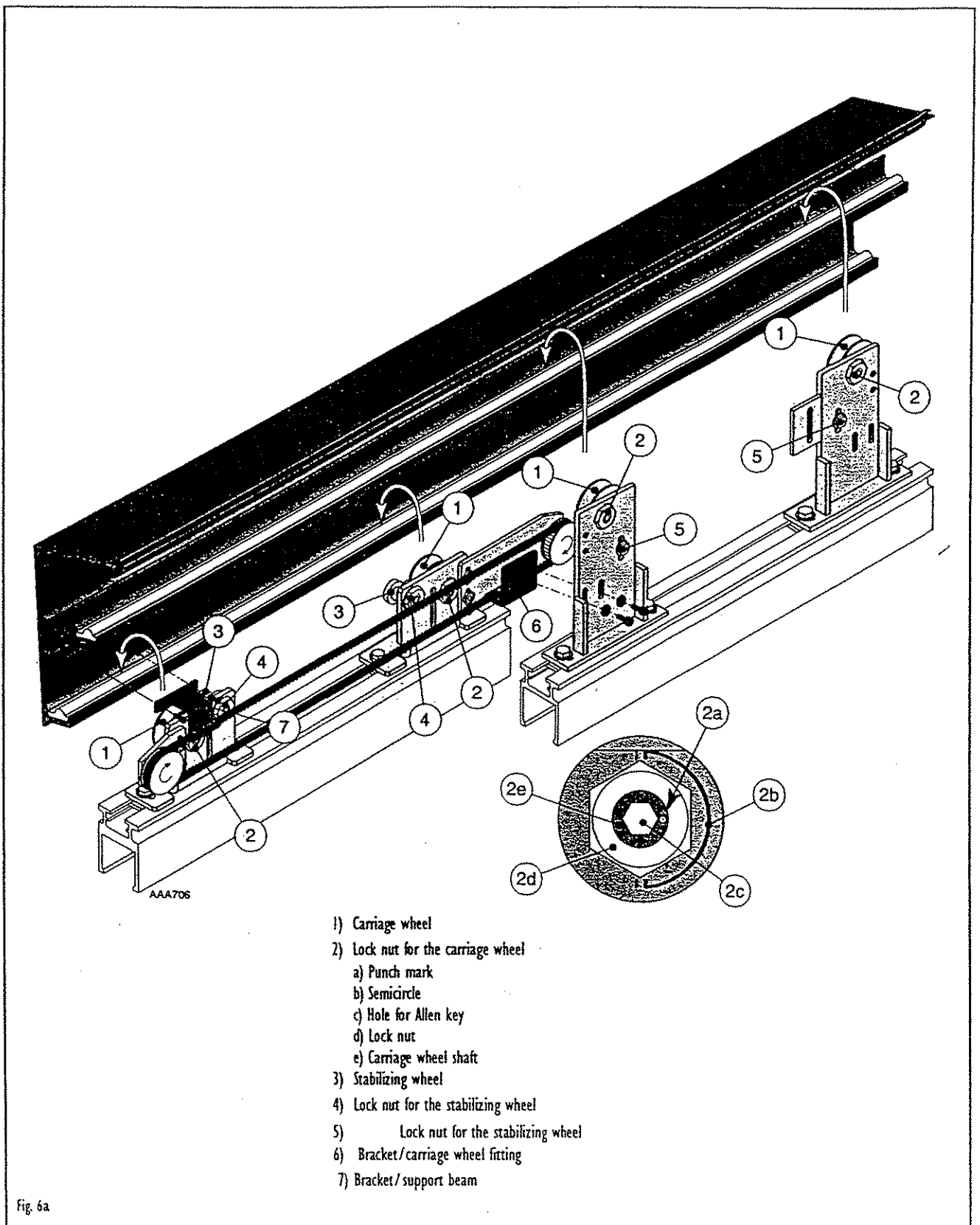


Fig. 6a

A rough adjustment of the door height is necessary to facilitate the installation of the floor guides.

Low-speed inner door leaf

1. Loosen the stabilizing wheel lock nut and turn the wheel to its lowest position (see fig. 6a).
2. Loosen the carriage wheel lock nut and turn the wheel so that the punch mark is to the **right** of the shaft centre in the middle of the semicircle marked on the fitting. Tighten the lock nut.
3. Ensure that the sliding track is clean. Hang the door leaf into the sliding track.
4. The carriage wheel shaft is eccentric and by rotating the shaft half way round, the door leaf can be adjusted 13/16" (20 mm) ($\pm 13/32$ ").
5. Insert an 8 mm Allen key in the hexagonal hole. Loosen the lock nut and turn the key until the door leaf is about 5/16" (8 mm) above the floor. Tighten the lock nut. Both carriage wheels should be adjusted in the same way. Make sure that the punch mark on the carriage wheel shaft is to the **right** of the shaft centre within the semicircle; a condition necessary for self-locking of the wheels.

High-speed outer door leaf

1. Loosen the screw for the stabilizing wheel and move it to its lowest position (see fig. 6a).
2. Loosen the carriage wheel lock nut and turn the wheel so that the punch mark is to the **right** of the shaft centre in the middle of the semicircle marked on the fitting. Tighten the lock nut.
3. Ensure that the sliding track is clean. Hang the door leaf into the sliding track.
4. The carriage wheel shaft is eccentric and by rotating the shaft half way round, the door leaf can be adjusted 13/16" (20 mm) ($\pm 13/32$ ").
5. Insert an 8 mm Allen key in the hexagonal hole. Loosen the lock nut and turn the key until the door leaf is about 5/16" (8 mm) above the floor. Tighten the lock nut. Both carriage wheels should be adjusted in the same way. Make sure that the punch mark on the carriage wheel shaft is to the **right** of the shaft centre within the semicircle; a condition necessary for self-locking of the wheels.

Refastening of brackets and fittings (see fig. 6a)

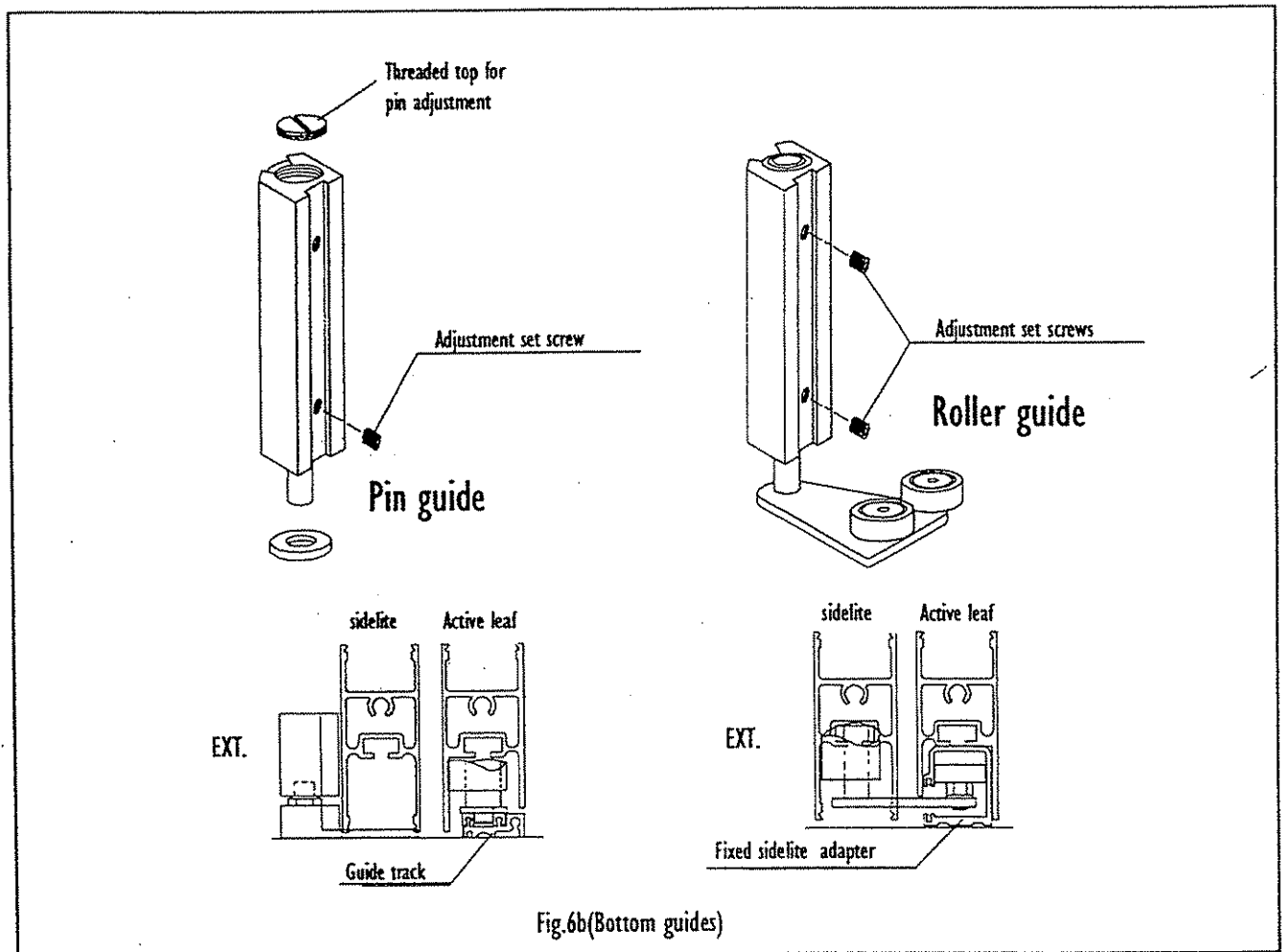
1. Move the door leaves to closed position.
2. Fasten the bracket (6) in the carriage wheel fitting.
3. Fasten the bracket (7) in the support beam.
4. Fasten the tooth belt fitting to the carriage wheel fitting (see pages 11, 24 and 25).

Installation of the floor guides

There are two types of bottom guide systems available (see fig. 6b).

1. Standard pin guide system (with guide track).
2. Optional roller guide system (with fixed sidelite adapter).

Establish the type of bottom guide system which is being installed and follow the appropriate instructions stated on pg. 19 and pg.20.



With standard threshold

Prepare the transom, verticals, and horizontals for anchoring into the finished opening. Position the assembly into the opening and secure it square and plumb. Secure the sidelite bottom adapter or guide track to the short threshold section and anchor it to the floor. Door height must be adjusted per threshold thickness.

Hanging the active leaf roller guides

Remove all packing material from the door assembly. The door is shipped with most parts installed for ease of installation. The door fittings must be placed according to the location dimensions provided. (see figs 5a -5b) Remove the rubber band holding the delrin washer onto the pin guide prior to installing the door. Position the door so the carriage wheels are riding on the radius of the plastic track extrusion located in the slider beam. Loosen the lower set screw in the pin guide, the pin will now be under a light spring pressure. Push the pin guide up and into the door enough so the pin can be inserted into the floor track. Slight adjustments may be required to the PSA pivot bar assembly at this time in order to adjust for the weight of the door. Position the active leaf(s) for leveling. Adjust the eccentric carriage wheels, stabilizing wheels and carrier hardware. Adjust the height of the active leaf until proper clearance is obtained. The carriage wheels must be adjusted equally so that the doors line up with the jamb (or opposite leaf on bi-parters) in the closed position. Open the active leaf(s) and adjust the height of the bottom pin guides and secure the set screw (see fig.6c). Slowly slide the active leaf(s) open while checking for any binding in the guide assembly. Re-adjust until there is no binding for the full stroke of the active leaf(s). Panic the active leaf(s) out and adjust the ballcatch tension (see fig.6d) as required by local egress codes. Adjust the active leaf(s) for finger protection (see pg 10), manual locks and proceed with all wiring and operator adjustments.

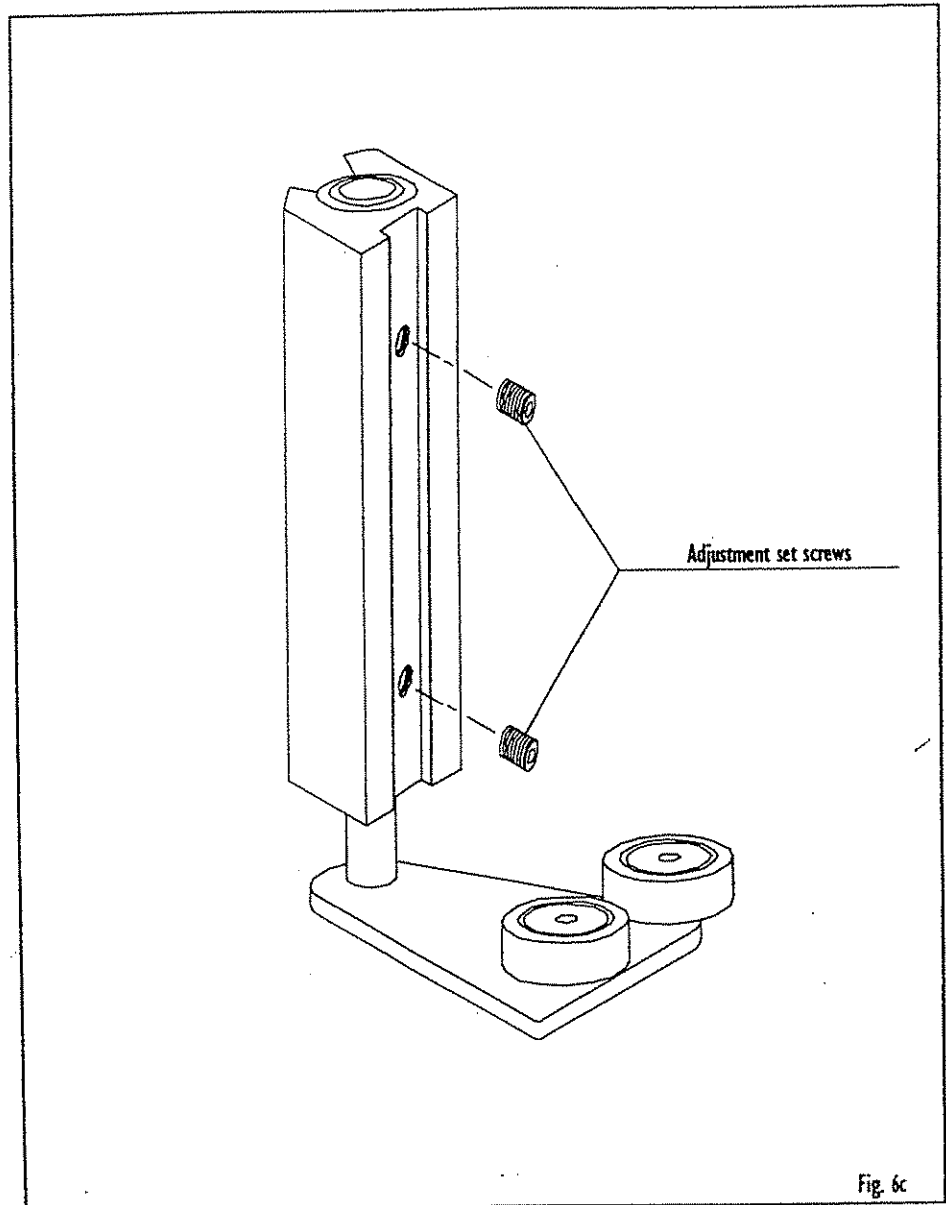
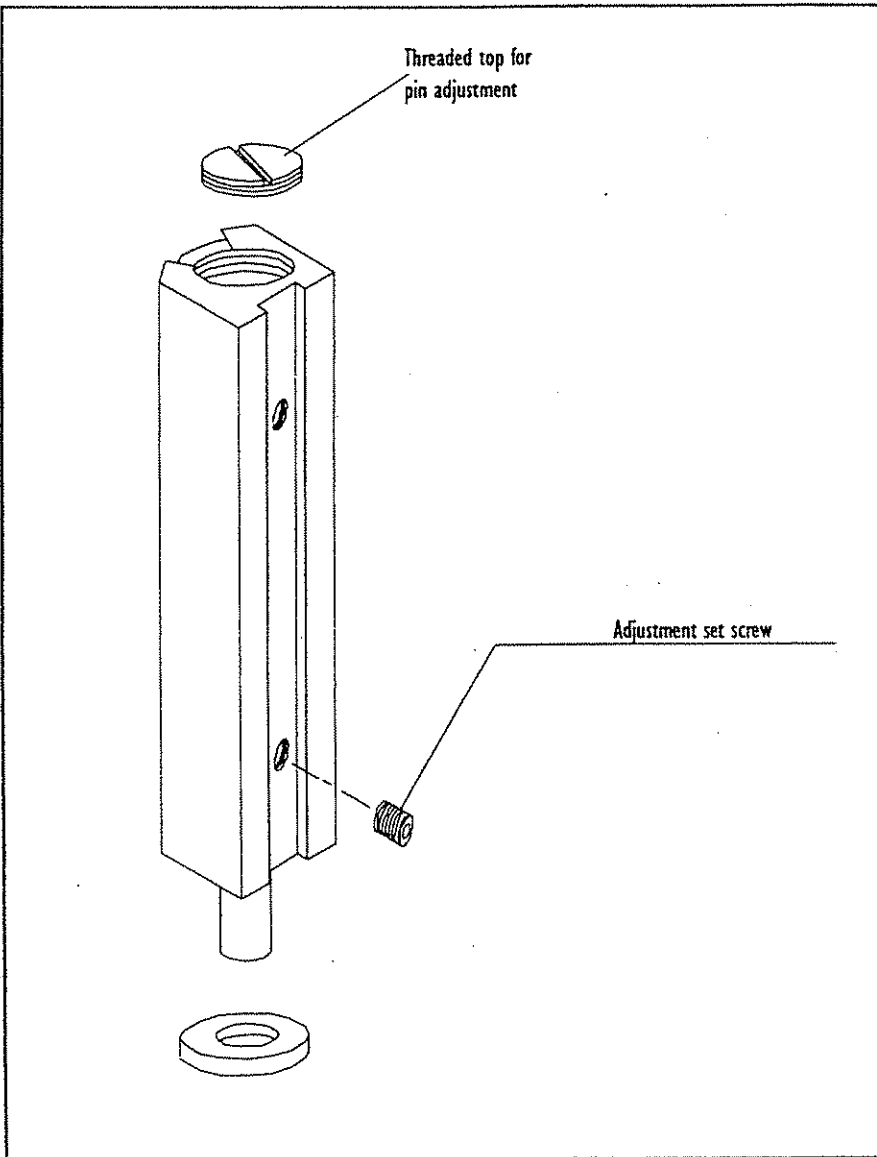


Fig. 6c

Hanging the active leaf pin guides



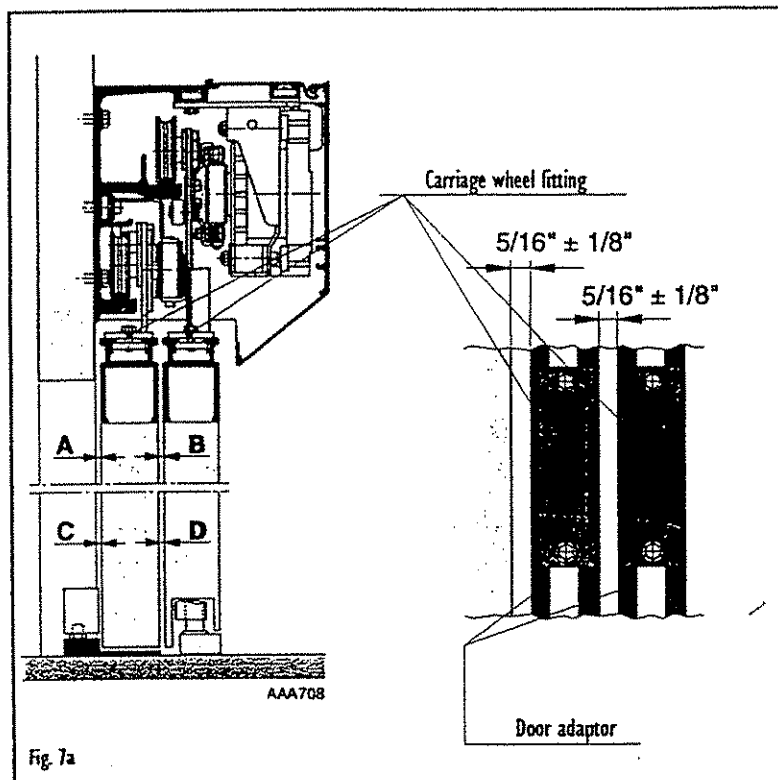
Remove all packing material from the door assembly. The door is shipped with most parts installed for ease of installation. The door fittings must be placed according to the location dimensions provided. (see figs 5a-5b)

Remove the rubber band holding the delrin washer onto the pin guide prior to installing the door. Position the door so the carriage wheels are riding on the radius of the plastic track extrusion located in the slider beam. Loosen the lower set screw in the pin guide, the pin will now be under a light spring pressure. Push the pin guide up and into the door enough so the pin can be inserted into the floor track. Slight adjustments may be required to the PSA pivot bar assembly at this time in order to adjust for the weight of the door. Position the active leaf(s) for leveling. Adjust the eccentric carriage wheels, stabilizing wheels and carrier hardware. Adjust the height of the active leaf until proper clearance is obtained. The carriage wheels must be adjusted equally so that the doors line up with the jamb (or opposite leaf on bi-parters) in the closed position. Open the active leaf(s) and adjust the height of the bottom pin guides and secure the set screw (see fig. 6d). Slowly slide the active leaf(s) open while checking for any binding in the guide assembly. Re-adjust until there is no binding for the full stroke of the active leaf(s). Panic the active leaf(s) out and adjust the ballcatch tension (see fig. 6e) as required by local egress codes. Adjust the active leaf(s) for finger protection (see pg 10), manual locks and proceed with all wiring and operator adjustments.

Final adjustment of the door leaves

A final adjustment of the door leaves is necessary after installing the floor guides.

Depth adjustment

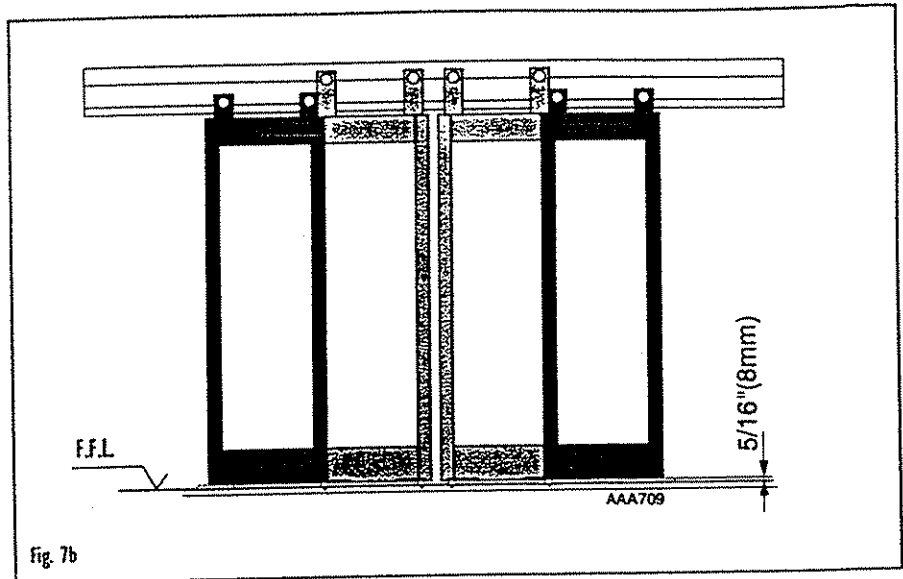


1. The distance A, between the top of the door leaf and the fixed screen, and the distance B, between the door leaves, are to be adjusted by loosening the two screws connecting the carriage wheel fitting to the door adaptor. The holes in the carriage wheel fitting are slotted and the door leaf/adaptor can be adjusted $\pm 1/8"$ (3 mm).

Note! Make sure that the carriage wheel fitting is completely in line with the door adaptor.

2. Distance C and D are located by the threshold guide.
3. If weather stripping is used between the door leaf and the fixed screen and between the door leaves, they should seal equally for the total vertical height.

Height adjustment

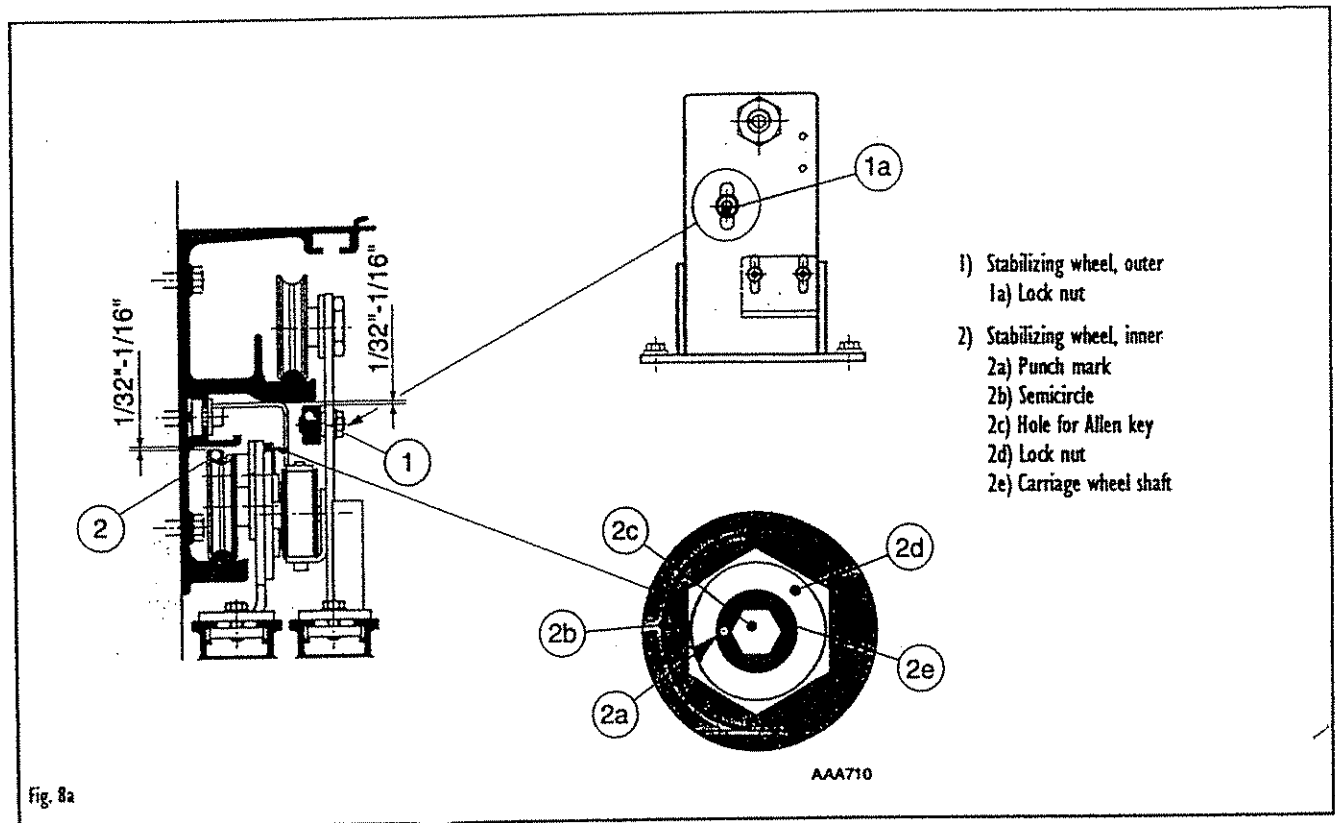


The height adjustment is to be carried out with the carriage wheel shaft as described on pages 16-17. (See also installation of floor guides pages 18.)

It is very important that the door leaf hangs vertically after the adjustment and that bi-parting doors are parallel in the closed position.

If weather stripping is used on the lower edge of the door leaf, it should only lightly touch the floor. Check that the door leaf is parallel with the fixed screen.

Adjustment of the stabilizing wheels



Low-speed inner door leaf

1. Insert an 8 mm Allen key in the hexagonal hole and turn the key **clockwise** until the stabilizing wheel is in contact with the underside of the flange of the support beam.
2. Lower the wheel approx. $1/32'' - 1/16''$ (0.5-1.0 mm) and tighten the lock nut.

Make sure that the punch mark on the stabilizing wheel shaft is to the **left** of the shaft centre within the semicircle marked on the fitting; a condition necessary for self-locking of the wheel after final adjustment. Both stabilizing wheels should be adjusted in the same way.

Note!

Check the clearance $1/32'' - 1/16''$ (0.5-1.0 mm) for the complete movement of the carriage.

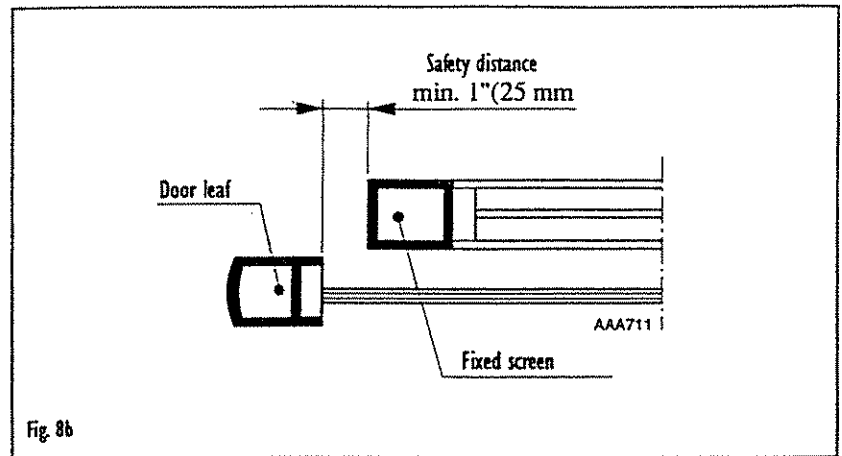
High-speed outer door leaf

1. Slide the stabilizing wheel upwards until it is in contact with the underside of the flange of the support beam.
2. Lower it approx. $1/32'' - 1/16''$ (0.5-1.0 mm) and tighten the screw.

Note!

Check the clearance $1/32'' - 1/16''$ (0.5-1.0 mm) for the complete movement of the carriage.

Adjustment of the trailing edge – to avoid finger trap

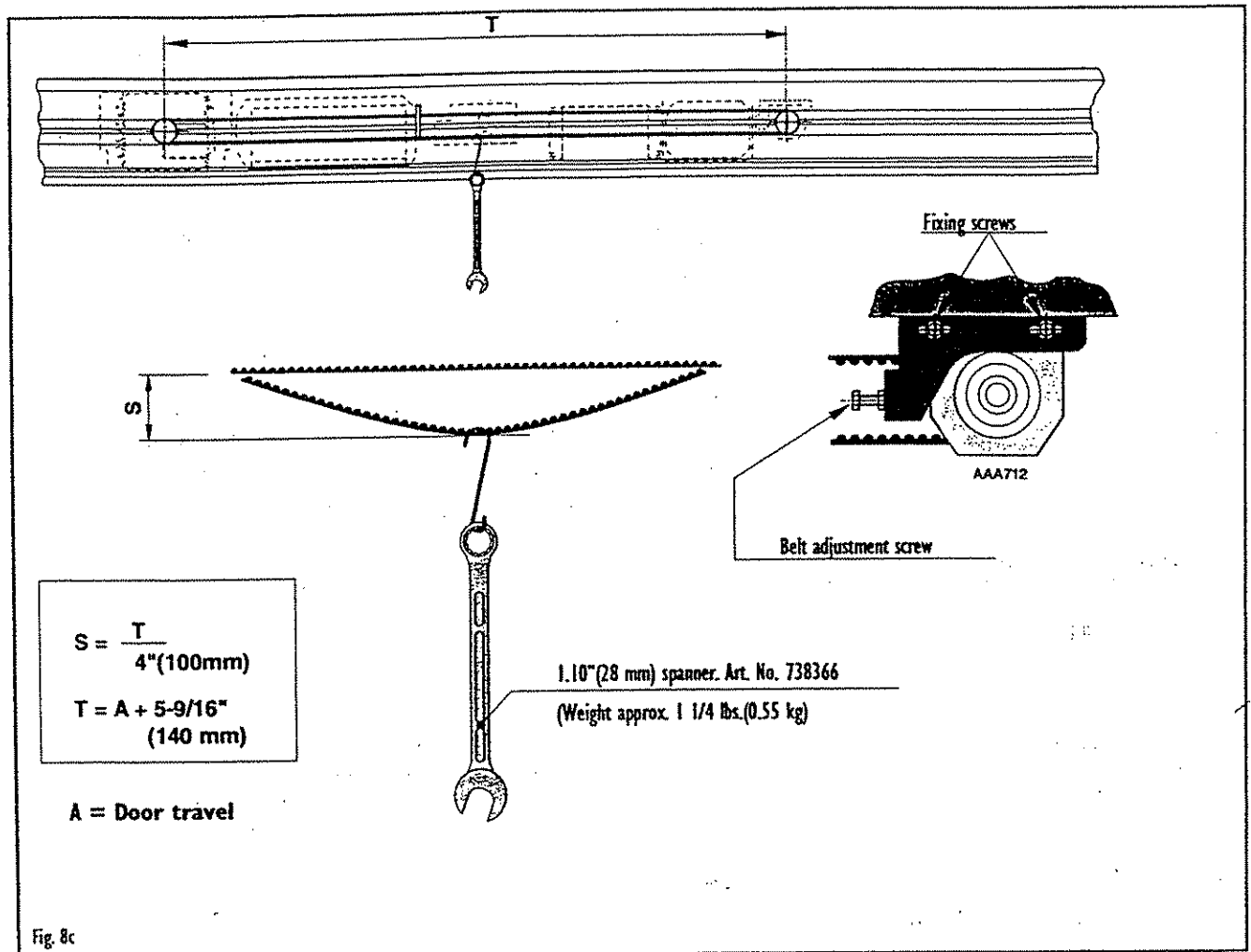


Push the doors by hand to the desired opening.

In the case of framed doors, the trailing edge of the door leaf must not pass the mullion of the fixed screen but must stop at least 1" (25 mm) before. This is to avoid finger trap.

Loosen the door stops, move them in against the carriage wheel fittings and tighten firmly.

Checking and adjusting the belt tension



High-speed tooth belt (outer door leaf)

Check that the belt tension is correct in the following way:

1. Dismantle the lower transmission rod (applies only to TMD-2).
2. Make a hook of a steel wire, or similar, to hang around the belt.
3. Hang, by means of the hook, the 1.10" (28 mm) spanner used for adjustment of the carriage and stabilizing wheels, exactly in the middle of the belt.
4. Measure the sag (S) and adjust the belt tension if necessary in accordance with fig. 8c.

Low-speed tooth belt (inner door leaf)

Pull the carriage wheel fitting and tighten it at the same time to get correct tension.

Attachment of the tooth belt fittings and transmission rod

All operators are delivered with the transmission factory-mounted in the support beam.

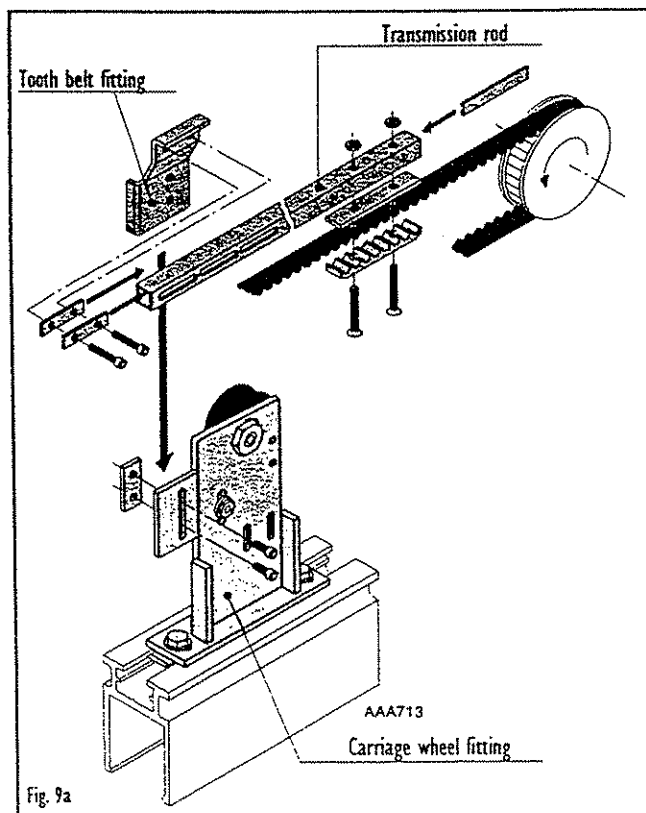
The illustrations below show how to assemble.

1. Attach the two rectangular washers to the tooth belt fitting, using two Allen screws.
2. Slide the unit into the transmission rod with one washer inside and the other one outside the rod.
3. Adjust the unit so that the screws are accessible through the slotted holes in the rod. Do not tighten the screws, because of later adjustment.
4. a) Bi-parting operators: Push the doors together and slide them until their meeting point is aligned with the centre of the daylight opening.
b) Single-sliding operators: Slide the door to the closed position.
5. Pull the tooth belt until the tooth belt fitting is just opposite the carriage wheel fitting. Adjust the transmission rod if necessary and tighten the Allen screws through the slotted hole(s).
6. Fix the tooth belt fitting to the carriage wheel fitting by using two screws and one rectangular nut. Adjust so that the upper and lower parts of the tooth belt are parallel and tighten the screws.
7. Check that the transmission rod, viewed from above, is completely in line with the tooth belt. If necessary adjust the carriage wheel fitting.

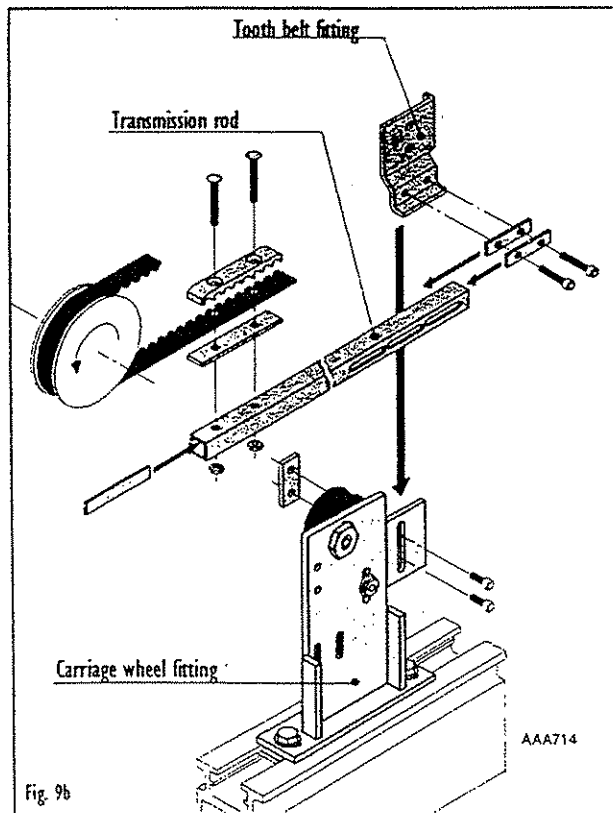
For bi-parting operators the tooth belt fitting for each door leaf should be attached in this way.

Bi-parting operators

Left opening door leaf



Right opening door leaf

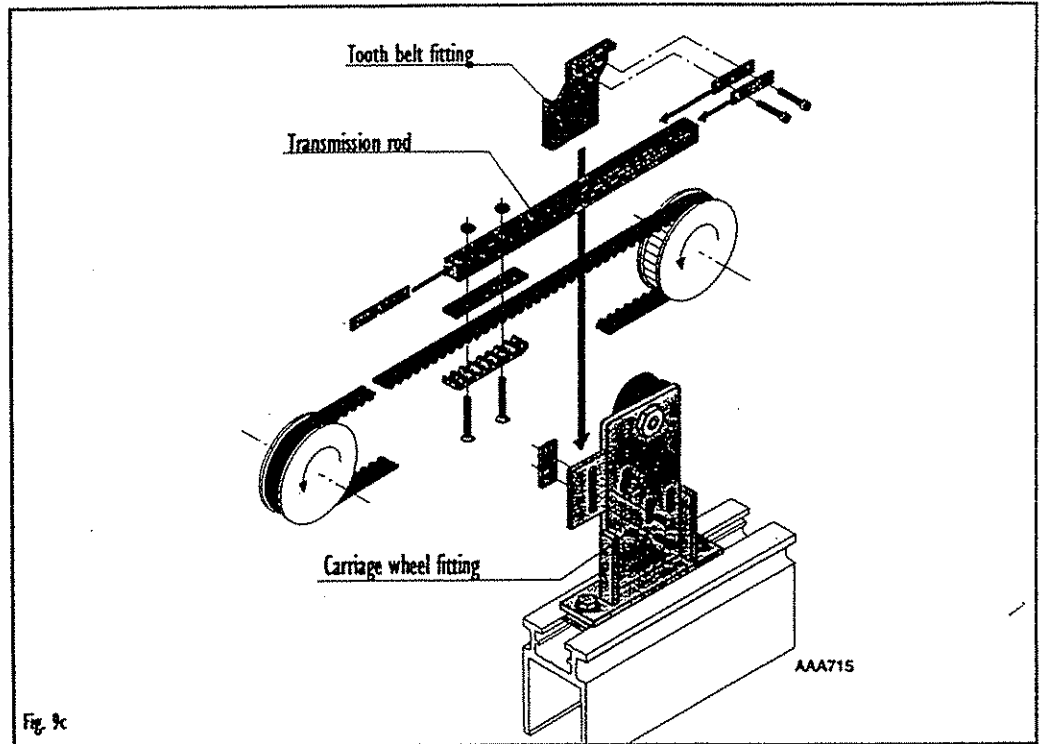


Single-sliding operators

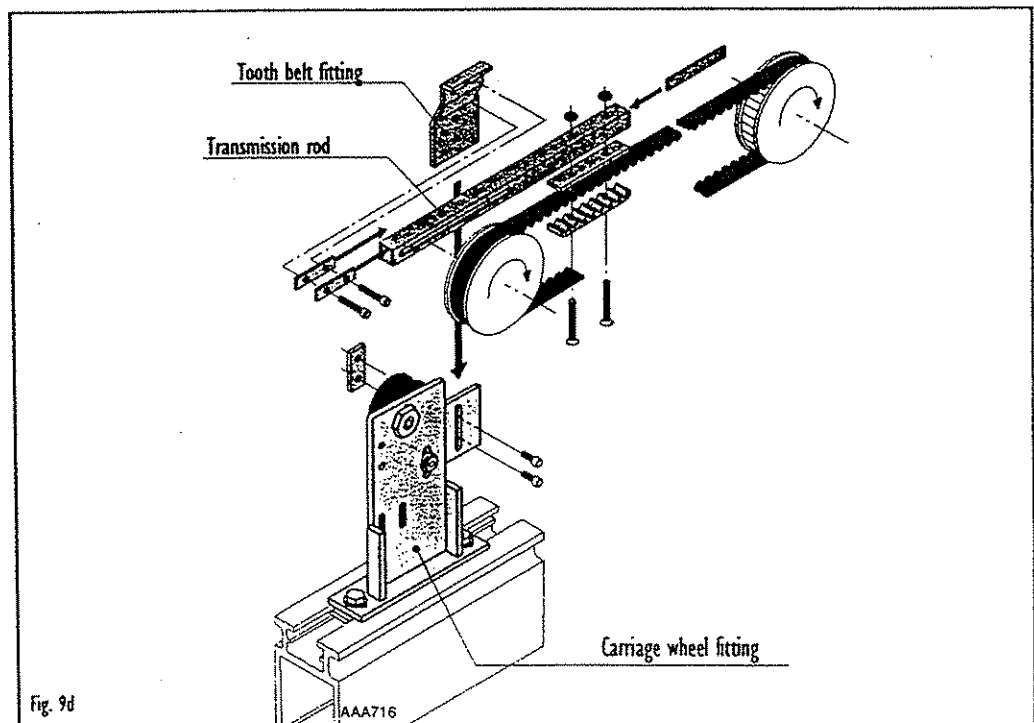
All single-sliding door operators have the transmission rod fastened to the tooth belt joint at the upper part of the tooth belt.

Changing the opening direction is done by changing the direction of rotation for the motor unit (see programming module PMD in the manual GB-1078, for electrical connection and adjustment).

Left opening door leaf



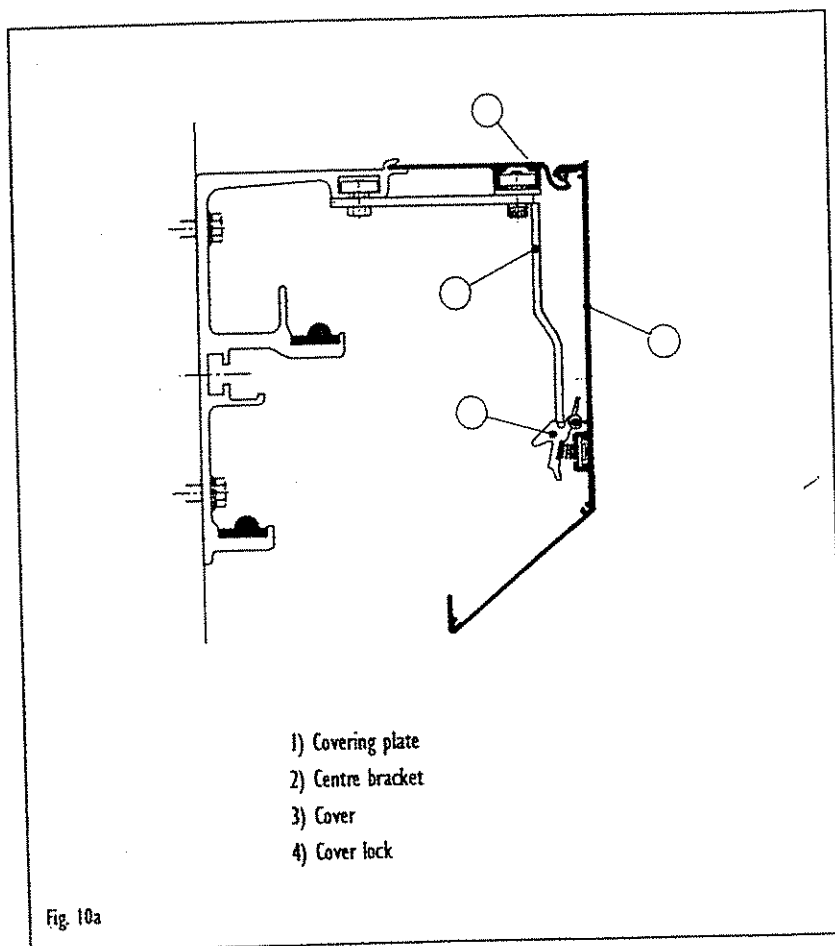
Right opening door leaf



Installing/Removing the cover

The upper part of the cover is fitted in the covering plate and the lower part is fixed by means of pre-mounted spring-loaded cover locks. The cover locks are slid over a special flange and positioned as indicated in figs. 11a/11b.

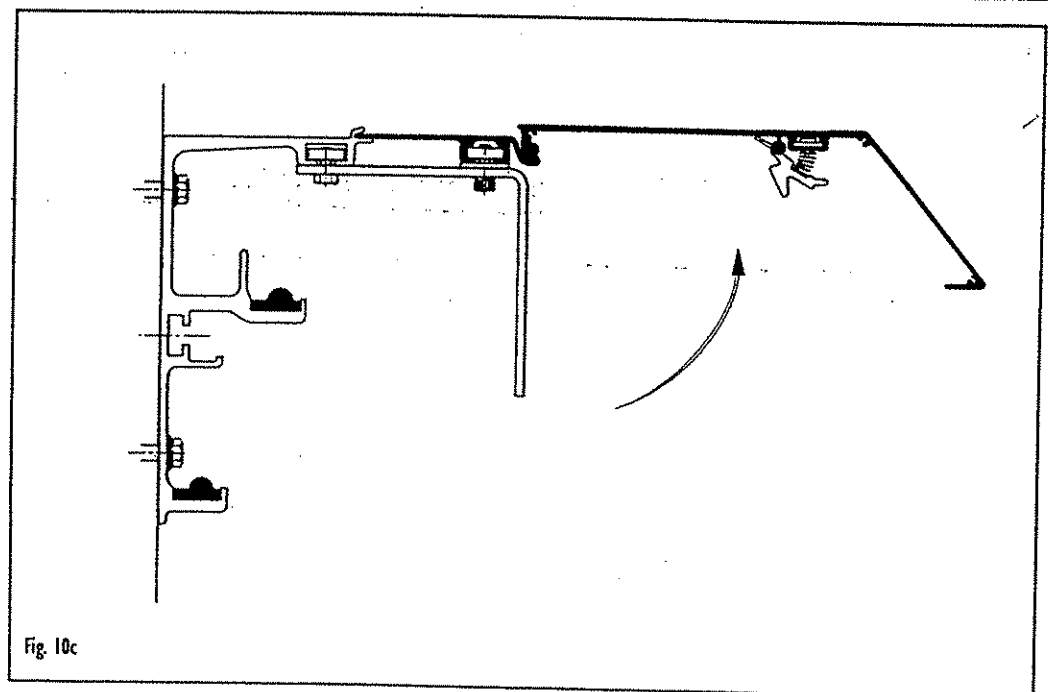
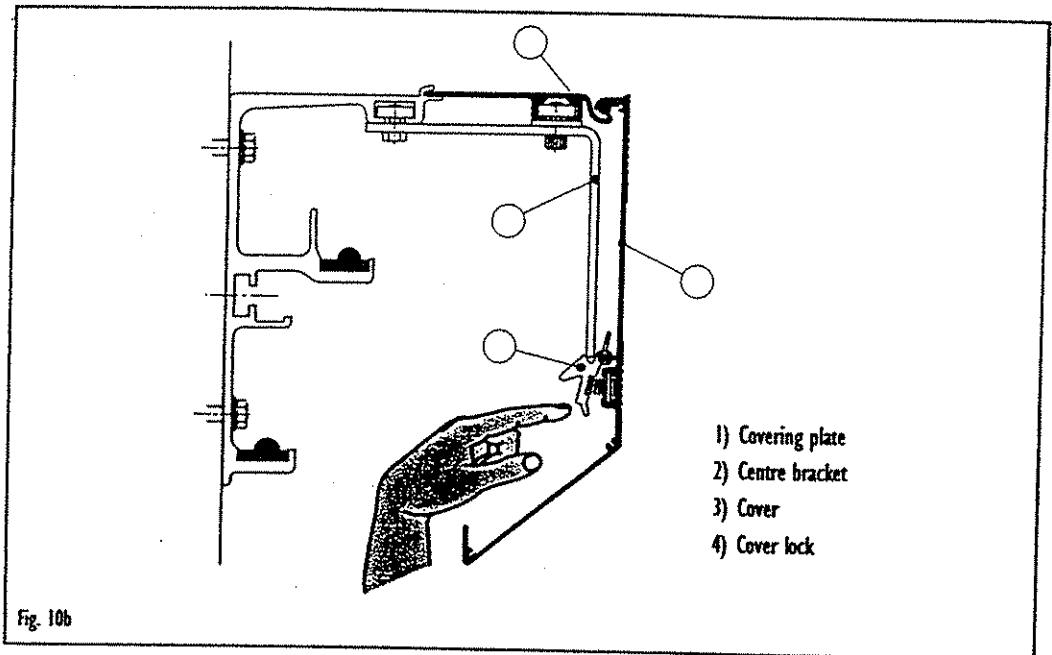
Installing the cover



1. Angle the cover min. 10° and fit the upper part into the covering plate.
2. Push the cover in against the centre and cover brackets until the cover locks engage around the lower part of the centre and cover brackets.

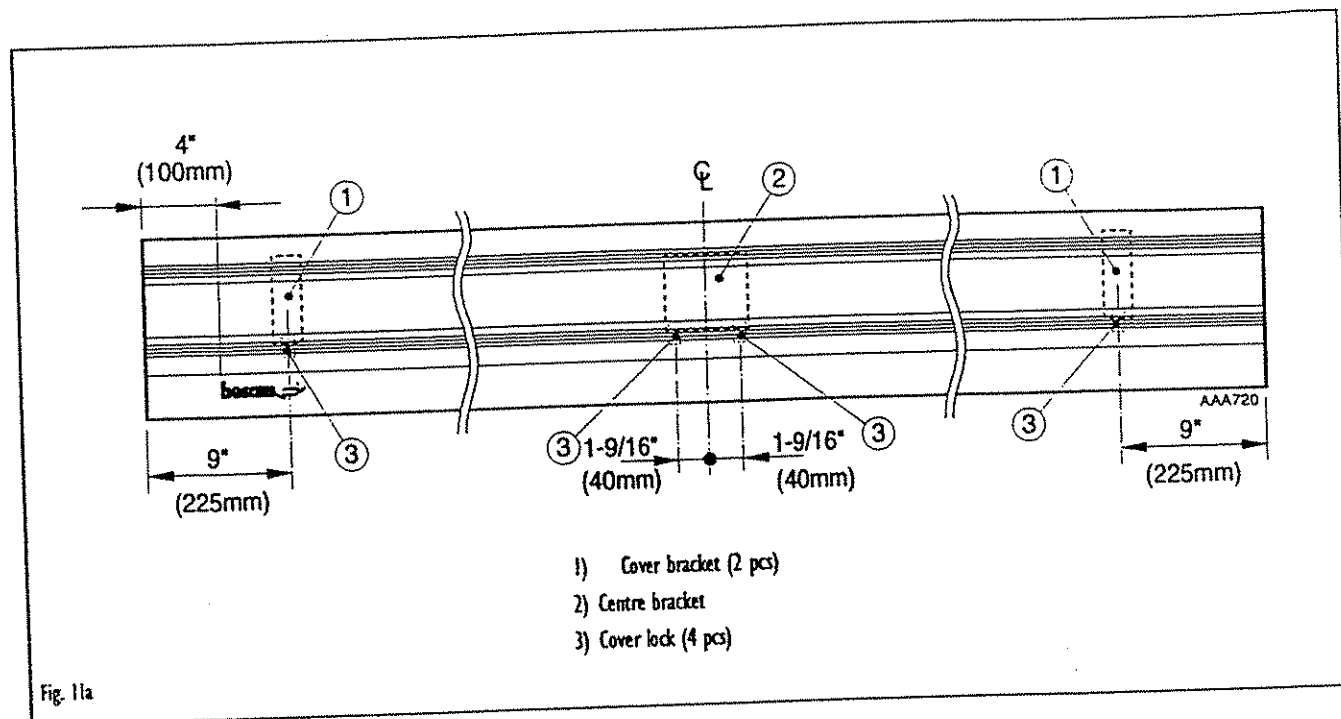
Note! The centre bracket is fitted for bi-parting door operators only.

Removing the cover

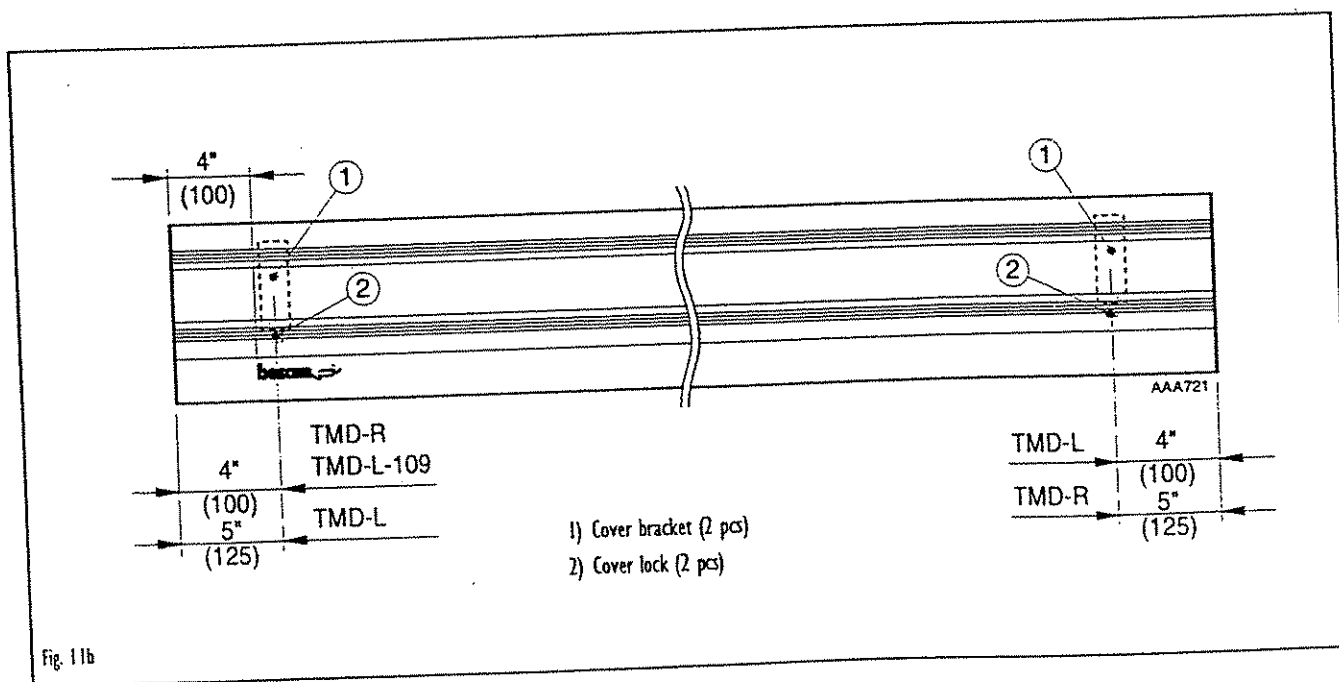


1. Set the programme selector (if fitted) to the "open" position and close the doors manually.
2. Reach into the bottom of the cover and push on the cover lock (see fig. 10b). At the same time pull the lower part of the cover outwards until the cover is released from the cover lock. Repeat this procedure for all cover locks.
3. Pull the lower part of the cover outwards about 10°. The cover can now be lifted off at the hinge joint or swung further outwards/upwards. A suitable support can then be placed to keep the cover open (see fig. 10c).

TMD-2, bi-parting operator



TMD-R/L, single-sliding operator



Cover – made in clear or bronze anodized aluminium, or white (RAL 9010) paint finish. Other RAL colours optional.

Activation units – see separate product sheet.

Programme selectors – PS-4, PS-5, PS-2 and PSP.

Electromechanical locking device TLD/TLDP – locks the doors in the closed position. Activated by the programme selector.

Manual lock opening device MODD – for manual unlocking of the electromechanical locking device TLD.

Micro switch kit LSKD – for indication of door or lock position.

Electronic emergency unit EUD-3 – used if a door is required to be closed or opened by means of a battery unit in the event of power failure.

Emergency closing with repeated closing – if the door is opened by hand after an electronic emergency closing, it will close again after approx. 4 seconds (LSKD to be used).

Partial opening – provides partial door opening width. Programme selector PSP or PS-2 and PS-4/PS-5 must be installed.

Break-out panic unit PSB-T – enables the door/side screens to be broken outwards in case of emergency.

Manual open/close function – The first push on the push-button opens the door, the second push closes the door. The push-button is to be connected to the extension unit EXD-3.

Interlocking – used between two operators when the first operator must close before the other one can open. Connection to be made on the extension unit EXD-3.

Synchronizing – used e.g. when two single-sliding operators are installed for operation against each other, where all functions shall be carried out simultaneously for both operators. Connection to be made on the extension unit EXD-3.

Maintenance/Service

Automatic door installations must be subjected to regular maintenance, the frequency of which is governed by the environmental conditions and density of traffic.

1. Remove dust and dirt from the operator. Dirt on the sliding tracks should be removed with methylated spirits. If necessary replace the sliding tracks.
2. None of the parts need lubrication. The tooth belt must be kept dry and clean. Check the belt tension.
3. Check that all nuts and bolts are tightened well.
4. Adjust, if necessary, the door leaf speed, the hold open time and the door leaf position.

TELE-GLIDE AMD/EMD II SPARE PARTS pg. 2

1	549712	MOTOR, GEARBOX
1a	738686	DISC, ENCODER
2	655711	CONTROL BOX, CUD9, 120V
2a	24-02-654658	FUSE, 2AT, 120V, SET OF 10
2b	04-02-654659	FUSE, 5AT, 120V, SET OF 10
3	30-02-654745	BATTERY PACK, EUE
4	655107	LOCK, ELECTRO-MECH., LP ^W /PWR
	655108	LOCK, ELECTRO-MECH., LS ^W /PWR
4a	04-05-655103	LOCK, SHAFT
4b	04-03-654672	FINGER, LOCK, TMD-2
	04-03-654423	FINGER, LOCK, TMD-L/R
4c	93-03-654674	LOCK, BRACKET, TMD-L
	93-03-654675	LOCK, BRACKET, TMD-R
5	550191	PULLEY, IDLER
6	04-21-701239	ROLLER TRACK
7	93-50-549172	TAPE, DOUBLE-BACKED
8	04-03-544958	CLIP, RETAINING HD. TRACK
9	93-15-832571	KIT, DOORSTOP
9a	04-20-830176	ABSORBER, DOORSTOP
10	93-15-832507	KIT, DOORSTOP, LOWER
11	04-20-549157	DAMPENER, COVER, SPLIT
12	04-15-548372	SUPPORT, REMOVE. COVER
13	04-09-548474	NUT, SQUARE, M6
14	93-09-723063	SCREW, SHC, M6 X 16MM
15	04-15-549043	KIT, CLAMPING
16	93-05-548978	ASSY, BRKT, L.H. (SHORT)
16a	04-15-832376	ASSY, CARRIAGE GUIDE WHL.
16b	04-15-832440	ASSY, ANTI-RISE WHEEL (ECC.)
16c	04-09-830374	NUT, FITTING, CARRIER WHL.
16d	546294	NUT, SQUARE, M6
16e	724336	SCREW, FLANGE, M6 X 14MM

17	93-05-548979	ASSY, BRACKET, R.H. (SHORT)
18	93-05-548990	ASSY, CARR. WHL. L.H. (TALL)
19	93-05-548991	ASSY, CARR. WHL., L.H. (TALL/EXT)
19a	93-05-832475	ASSY, ANTI-RISE WHL.
19b	93-09-729017	WASHER, M6
19c	93-09-726002	NUT, HEX, M6
20	93-05-548992	ASSY, CARR., WHL., R.H. (TALL/EXT)
21	93-05-548993	ASSY, CARR., WHL., R.H. (TALL)
22	93-15-549124	ASSY, MOUNTING, GEAR WHEEL
22a	93-05-549118	ASSY, MAIN GEAR
22b	93-09-729014	CLIP, RETAINER
23	04-20-735251	TOOTHBELT
24	93-15-549127	ASSY, GEAR WHEEL
25	04-09-654217	WASHER, CONICAL, M6
26	93-09-723896	SCREW, SHC, M6 X 12MM
27	93-03-549015	TOOTHBELT FITTING, LEFT
	93-03-549016	TOOTHBELT FITTING, RIGHT
28	549824	KIT, TRANSMISSION
29	04-03-548467	BAR, DRIVE, BI-PART
	04-03-548694	BAR, DRIVE 44 3/32" LONG
	93-03-549017	ROD, TRANSMISSION, TMD
30	549855	KIT, BELT FITTING
31	546855	KIT, FLOOR GUIDE
32	831622	SHOE, GLIDE
33	830064	GUIDE BLOCK, PLASTIC
34	50-20-135	GUIDE, PLASTIC TRACK
35	04-09-723035	SCREW, SHC, M6 X 12MM
36	549751	HOLDER, CABLE (BRKT)
37	546297	HOLDER, CABLE

TELE-GLIDE AMD/EMD II SPARE PARTS

