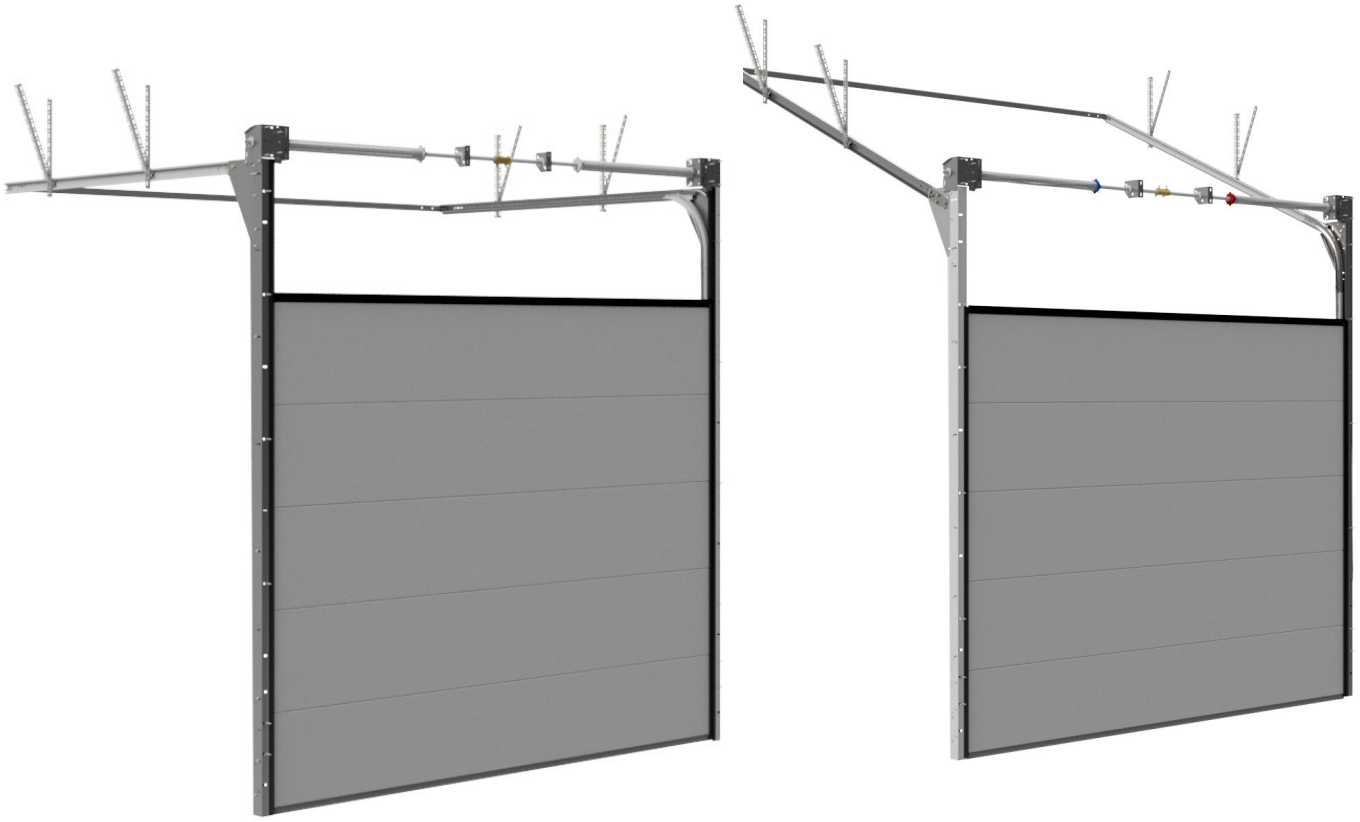
LOBAS®
- et sikkert valg

GA-4-20-84
REV: 1

UNV-Heavy HL TF

Installasjonsmanual – Assembly Instruction



UNIVERSAL	HEAVY	TORSJON FREMME	EKSKLUSIV

www.lobas.no
www.lobasgarasjeporter.no

Garasjeporter
Garage doors

Innholdsfortegnelse - Content

	Beskrivelse	Description	
I-IV	Informasjon om dokumentet	Document information	
V	Sikkerhetskrav	Safety requirements	
VI-XI	Medfølgende deler og skruer, systemoversikt. Nødvendig verktøy	Nuts and bolts. Tools required for assembling the door. System overview.	
1	Montering av vertikalskinner	Assembling vertical tracks	
2	Montering av endeplate og koblingsplate	Assembling brackets	
3	Montering av takskinner	Assembling horizontal tracks	
4	Montering av aksling og fjær	Assembling shafts and springs	
5	Montering av portelementer	Assembling door panels	
6	Justering av vaier og oppstramming av fjær	Adjusting cable and tightening spring	
8-11	Demontering. Bruk og vedlikehold	Disassembling the door. Use and maintenance	
12	Vedlikeholds skjema	Maintenance log	

I	Symboler	Symbols	
	Advarsel/Vær oppmerksom på risiko	Danger/Attention	
	Visuell kontroll	Visual control	
	Manuell operasjon	Manual operation	
	Se appendiks	Information in appendix	
	Oppmåling eller bruk av vater	Measure or level	
	Tilleggsutstyr som kan legges til dersom det er ønskelig. Standardutstyr avhenger av portstørrelse.	Optional equipment that may be added if the buyer asks for it. The equipment may be standard depending on door dimensions.	

II	Fargekoder i lysbildetittel	Colour codes in slide titles	
	Tilleggsutstyr	Optional equipment	
	Avhenger av portstørrelse	Dependent on door dimensions	

III	Bruksområde	Area of application	
	• Maks. portbredde (DB) : 6 m • Maks. porthøyde (DH) : 3,05 m • Maks High Lift (HL): 1,375 m • Maks. portvekt: 250 kg • Temperaturer: -20°C til +50°C • Luftfuktighet: 20-90% • Fjærens standard levetid: 15000 sykluser • Fjær med lengre levetid må presiseres ved bestilling	• Max door width (DB): 6 m • Max door height (DH): 4 m • Max High Lift (HL): 1,375 m • Max door weight: 250 kg • Temperature range: -20°C to +50°C • Humidity: 20-90 % • Standard spring lifetime: 15000 cycles • Springs with longer lifetime must be specifically asked for when you order the product.	

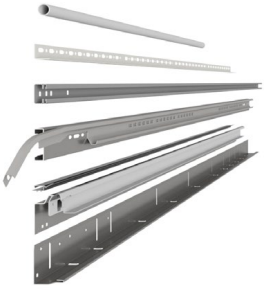
IV	Informasjon	General information	
	• Denne manualen må overleveres til sluttbruker når installasjonene er fullført, og bruker må ta vare på denne for senere vedlikehold, reparasjoner, oppgraderinger etc. • Installasjonen må utføres i henhold til denne manualen. • Det anbefales å bruke profesjonell installatør dersom man ikke har nødvendig kompetanse eller utstyr. • Korrekt installert tilfredsstiller produktet alle krav i EN 13241-1. • Det anbefales at installatør fyller ut loggbok bakerst etter fullført installasjon. • Dersom portåpner skal benyttes må denne installeres i henhold til åpnerens installasjonsmanual.	• This manual must be delivered to the user of the door system at the same time as the parts, or after the assembly if a professional is performing the installation. • The owner of the door system must keep this document for maintenance, repair and disassembly purposes. • Assembling the door system must be performed as indicated in this document. • It is recommended to let a professional perform the installation of the door system. • A correctly installed door system meets all the requirements of the EN 13241-1 standard. • The person installing the door system should complete the documentation part at the end of this document. • If an automatic door opening system is installed, please follow the instructions in the appropriate installation manual.	

V	Sikkerhetskrav ved montering og bruk	Safety requirements for assembly and use	
	• Pass på at strømmen er skrudd av når du eller en installatør jobber med elektriske komponenter på porten. • Aldri hopp over sikkerhetsoperasjoner eller monteringen av sikkerhetsutstyr. • Dersom en legger til, eller lar være å bruke, enkelte deler kan dette ha innvirkning på systemets funksjonalitet og sikring. Det er derfor anbefalt å ikke gjøre dette. • Enkelte deler kan ha skarpe kanter, det er derfor lurt å bruke hansker. • Dersom du oppdager skade på deler før, under eller etter montering bør du ta kontakt med forhandler for å evaluere skaden innvirkning på portens funksjonalitet og sikring. • Pass på at du står å jobber på et stabilt underlag, spesielt når du skal opp i høyden for å montere takskinner og lignende. • Sikre at barn og dyr ikke har adgang til arbeidsplassen. • Bruk egnet verktøy.	• Make sure that the power is switched off and remains switched off during all electrical operations. • Never bridge safety operations. • Adding or omitting parts can affect the door operation and thus the safety of the equipment. This is therefore strongly discouraged. • Some parts may contain sharp edges. It is recommended to use gloves. • If the equipment has signs of damage and wear, please contact a professional to examine the risks. • Ensure that your work environment is stable and secure. • Ensure that children and animals are prevented from entering the work environment during the assembly operation. • Use the appropriate tools.	

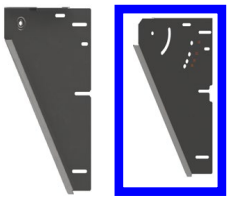
VI Deler/Parts

Tilleggsutstyr
Avhenger av portstørrelse.

2x Aksling
2x Stag (2m)
1x Avstandsskinne
2x Takskinne
3x Pakning
2x Vertikalskinne
2x Karmskinne

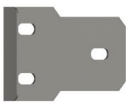


2x Koblingsplate



Koblingsplate forsterkning Del 1

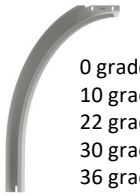
Koblingsplate forsterkning Del 2



6x Sleide

2x Endeplate

2x Buet skinne



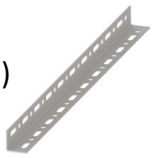
0 grader
10 grader
22 grader
30 grader
36 grader

2x Festevinkel

2x Toppklips

2x Fjærbruddsikring

8x stag (0,5 m)

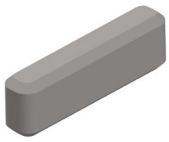


2x Torsjonsfjær

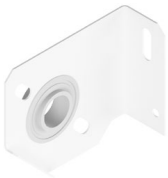
2x Trommel

2x Lager

5x Kile

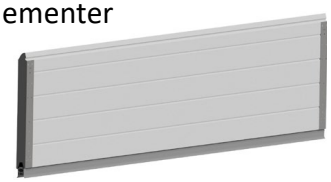


2x Midtplate



1x Kobling

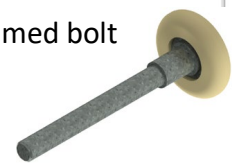
Portelementer



2x Bunnbrakett

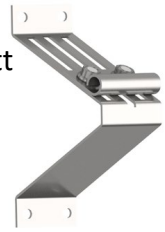
2x Vaier

Trinser med bolt



Hengsler med trinseholder

2x Toppbrakett



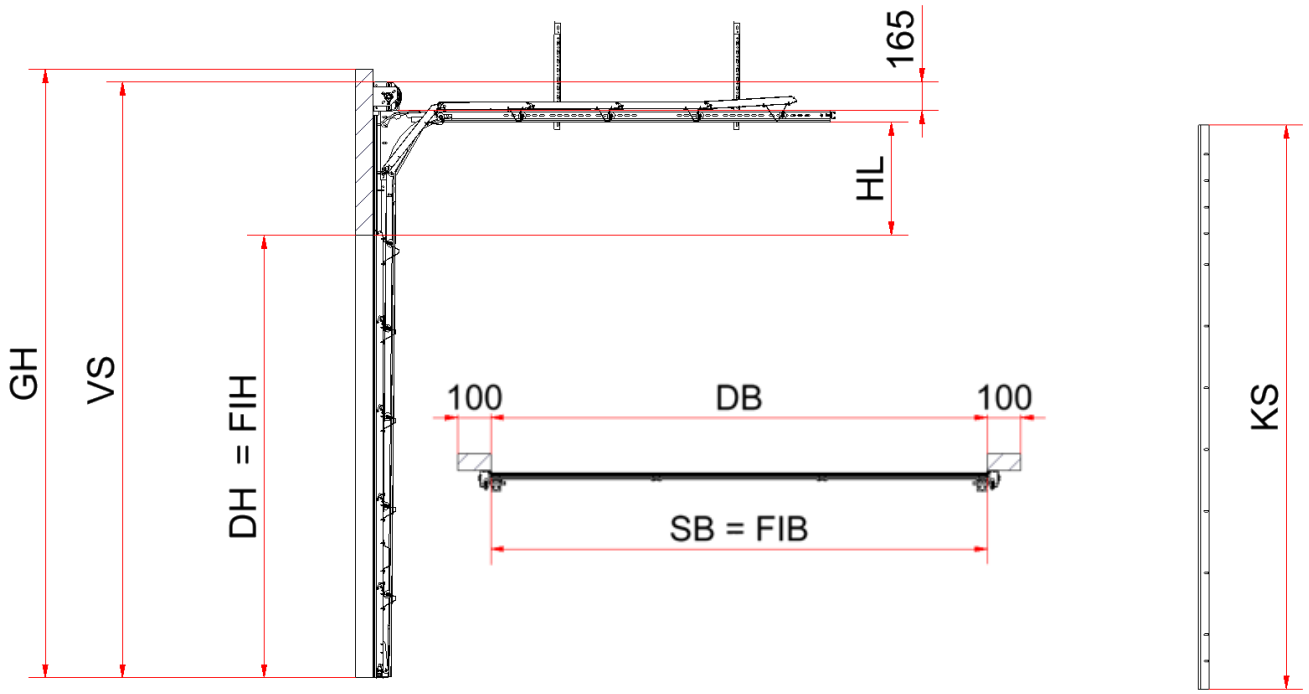
1x Bøylegrep

2x Oppspenningsstang

Portavstiver

Portavstiverfeste

Systemoversikt
UNV-Heavy HL TF



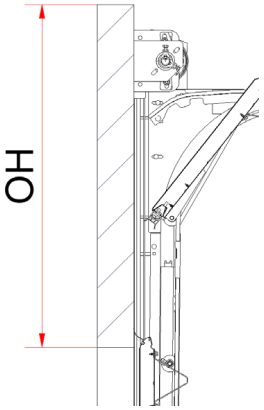
KS ≤ 4200 mm
DH + HL + 63,5 mm ≤ 4200 mm

KS = DH + HL + 63,5 mm
VS = KS + 165 mm

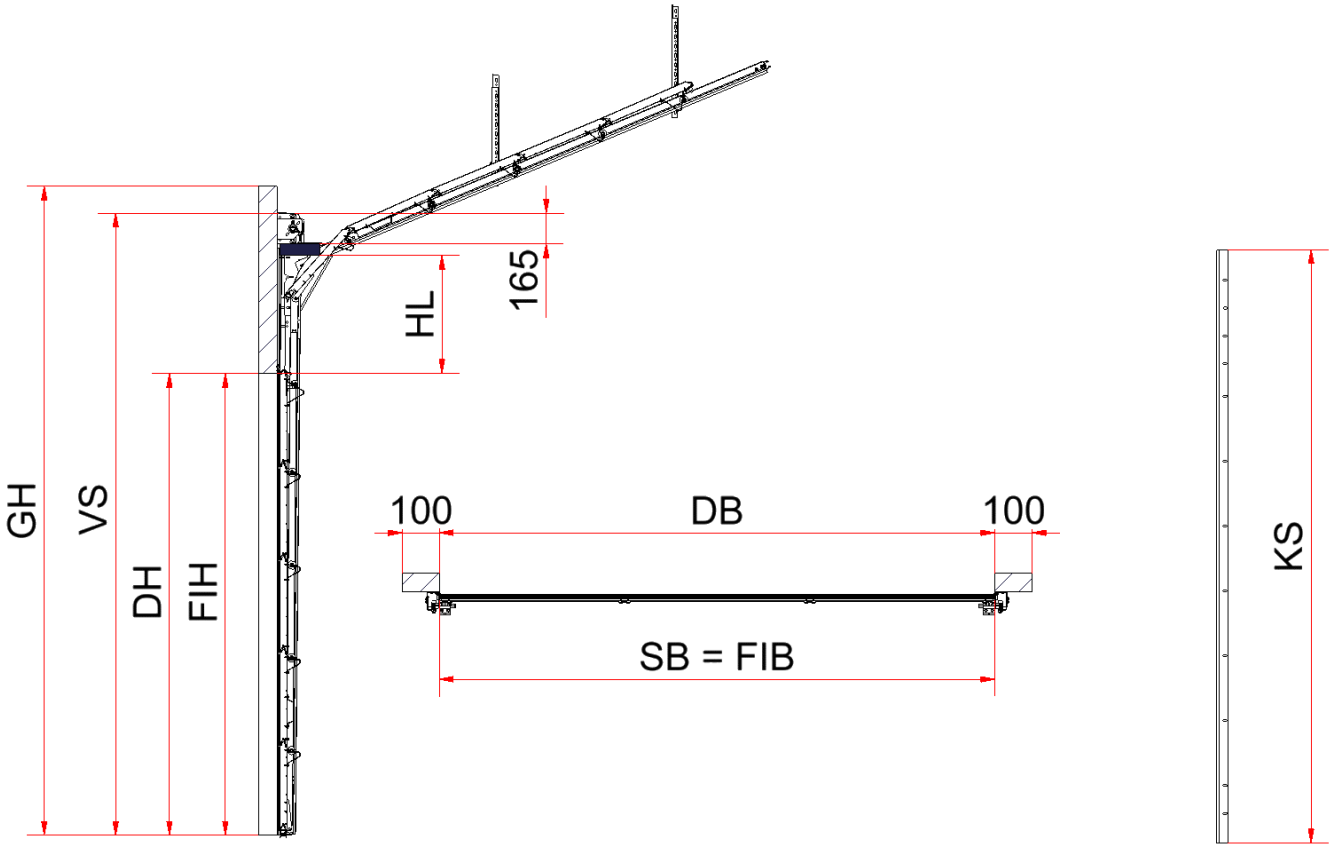
DH	Dagslyshøyde
DB	Dagslysbredde
OH	Overhøyde
KS	Karmskinne
VS	Vertikalskinne (Karmskinne med endeplate montert)
GH	Garasjehøyde
GB	Garasjebredde
FIH	Fri innkjøringshøyde
FIB	Fri innkjøringsbredde
SB	Seksjonsbredde

	GH = VS + 10 FIH = DH
	GH = VS + 10 FIH = DH

Manuell & Motor
OH ≥ HL + 240 mm



Systemoversikt
UNV-Heavy HL ST TF



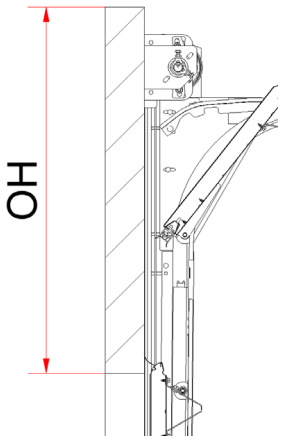
KS ≤ 4200 mm
DH + HL + 63,5 mm ≤ 4200 mm

KS = DH + HL + 63,5 mm
VS = KS + 165 mm

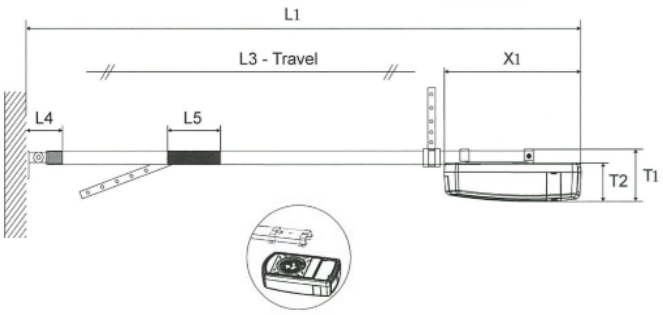
DH	Dagslyshøyde
DB	Dagslysbredde
OH	Overhøyde
KS	Karmskinne
VS	Vertikalskinne (Karmskinne med endeplate montert)
GH	Garasjehøyde
GB	Garasjebredde
FIH	Fri innkjøringshøyde
FIB	Fri innkjøringsbredde
SB	Seksjonsbredde

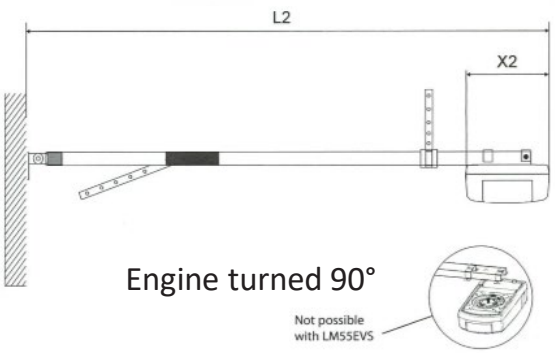
	GH = VS + 10 FIH = DH
	GH = VS + 10 FIH = DH

Manuell & Motor
OH ≥ HL + 240 mm



VIII	Liftmaster portåpnere	Liftmaster engines	





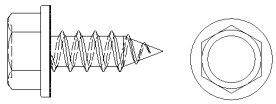
LM80EVF	LM100EVF	LM130EVF	C-Rail	Porthøyde Door height (m)	L1 (mm)	L2 (mm)	T1 (mm)
X	X	X	8023CR5	2,3	3271	3151	142
X	X	X	8323CR5	2,3	3271	3151	142
X	X	X	8025CR5	2,5	3460	3340	142
X	X	X	840CR5	3,0	4954	4834	

IX	Liftmaster portåpner	Liftmaster engines	

Portåpner Engine	Maks portvekt Max door weight (kg)	Maks portstørrelse (m)
LM80EVF	130	5,5m x 3,0 m
LM100EVF	150	5,75m x 3,25 m
LM130EVF	200	6,0m x 3,5m
LM3800W	130	5,5m x 3,0 m

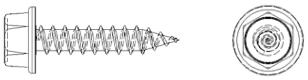
X	Skruer og muttere Skruepose: Antall	Bolts and nuts Bag reference: Quantity	

A 109526 – Self tapping screw 6,3x17



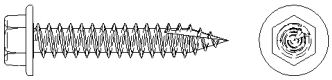
Bag:
L-95: 67
L-96: 4 x X
L-97: 8 x Y
L-99: 12 x Y

B 101704 – Treskrue 6x30



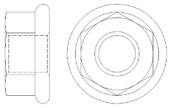
Bag:
L-04: 8-12

C 101706 – Treskrue 8x45



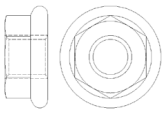
Bag:
L-47: 20
2 x L-161: 8
2 x L-57: 4
L-105: 3
L-67: 8

D 105770 M8 Tensiflens mutter



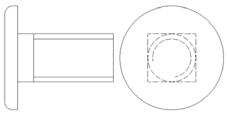
Bag:
2 x L-57: 4
L-103: 8-16
L-105: 6

E 101754 – M6 Tensiflens mutter



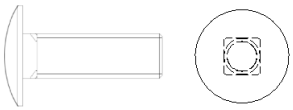
Bag:
2 x L-138: 12
3 x L-161: 12
L-58: 2

F 111002 M6x12



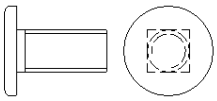
Bag:
2 x L-138: 12
3 x L-161: 12

G 105686 – Låseskrue M8 x 25



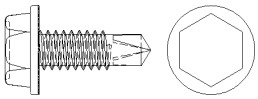
Bag:
L-105: 6

H 111001 - Track bolt – M8x17



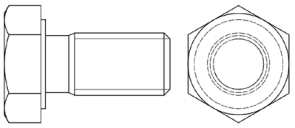
Bag:
L-103: 8-16

I 107456 - 6,3x18 TEK skrue med borspiss



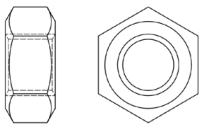
Bag:
L-83: 4
L-97: 8 x Y
L-99: 12 x Y

J 101743 - M8x25 Sekskantskrue DIN 933



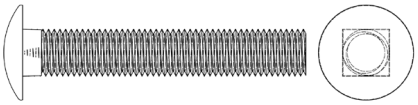
Bag:
L-39: 2
2 x L-57: 2

K 101755 - M8 sekskantmutter DIN 934



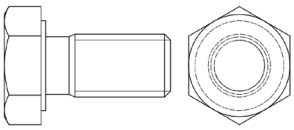
Bag:
L-39: 2

L 102857 - M6x45 Låseskrue - Heilgjenget



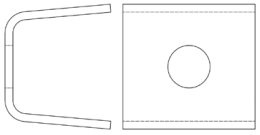
Bag:
L-58: 2

M 101742 - DIN 933 8x16 mm



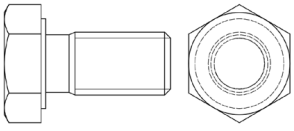
Bag:
2 x L-57: 6

N 105144 Støttebøyle takskinne UNV



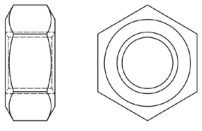
Bag:
L-58: 2

O 101742 - DIN 933 10x16 mm



Bag:
L-67: 4

P 101755 – M10 sekskantmutter DIN 934



Bag:
L-67: 4

X = Antall hengsler / X = Number of hinges
Y = Antall portavstivere / Y = Number of hinges

Tilleggsutstyr / Optional equipment
Avhenger av portstørrelse / Depends on door dimensions

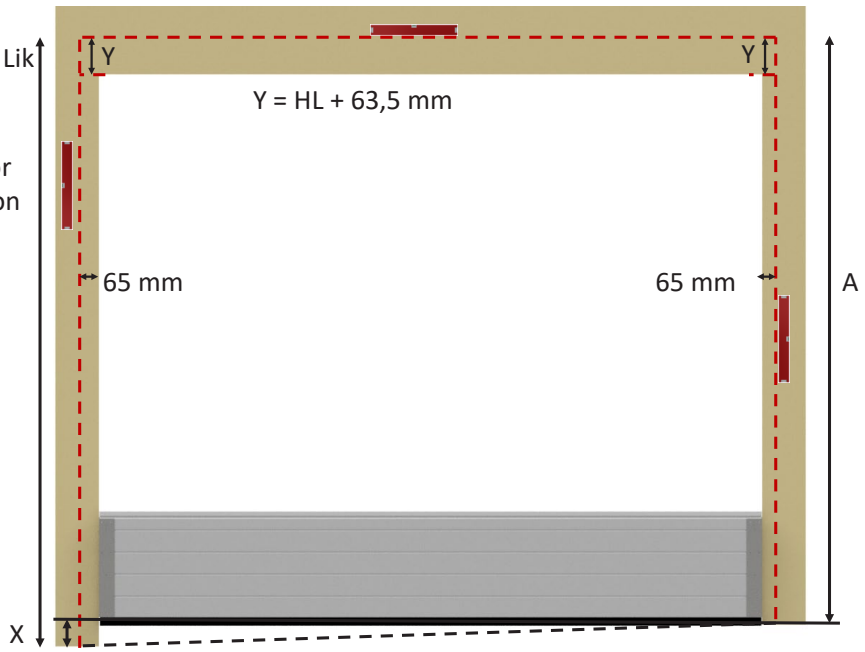
XI	Verktøy	Tools	

≥ 5 m

1	Oppmåling av portåpning	Measurement of garage doorway	Uppmätning av portöppning

X = Skjevhet i gulv
Y = Topp av karmskinne. Lik på begge sider av portåpning.

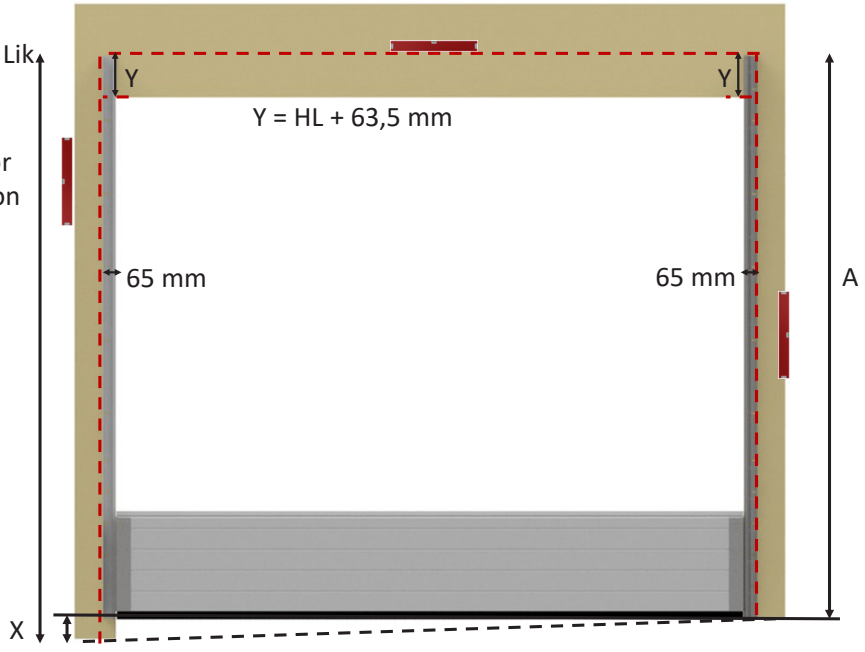
X = Variations in the floor
Y = Top of tracks. Equal on both sides of doorway



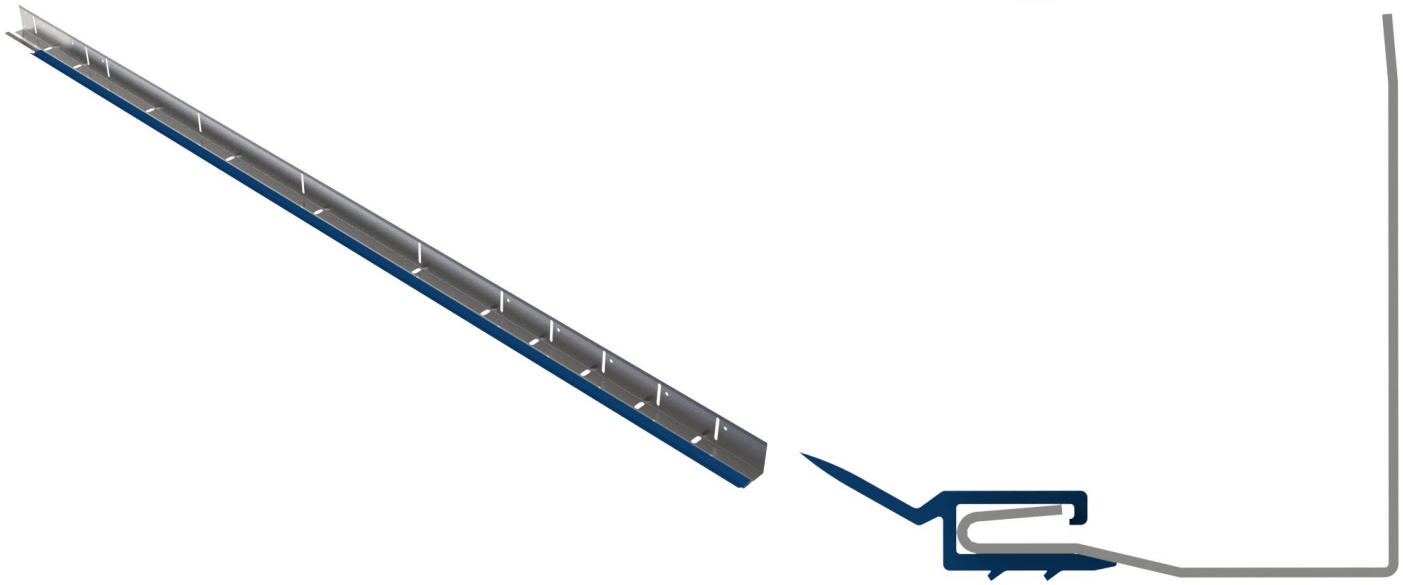
1-1	Posisjonering av karmskinner	Positioning tracks	

X = Skjevhet i gulv
Y = Topp av karmskinne. Lik på begge sider av portåpning.

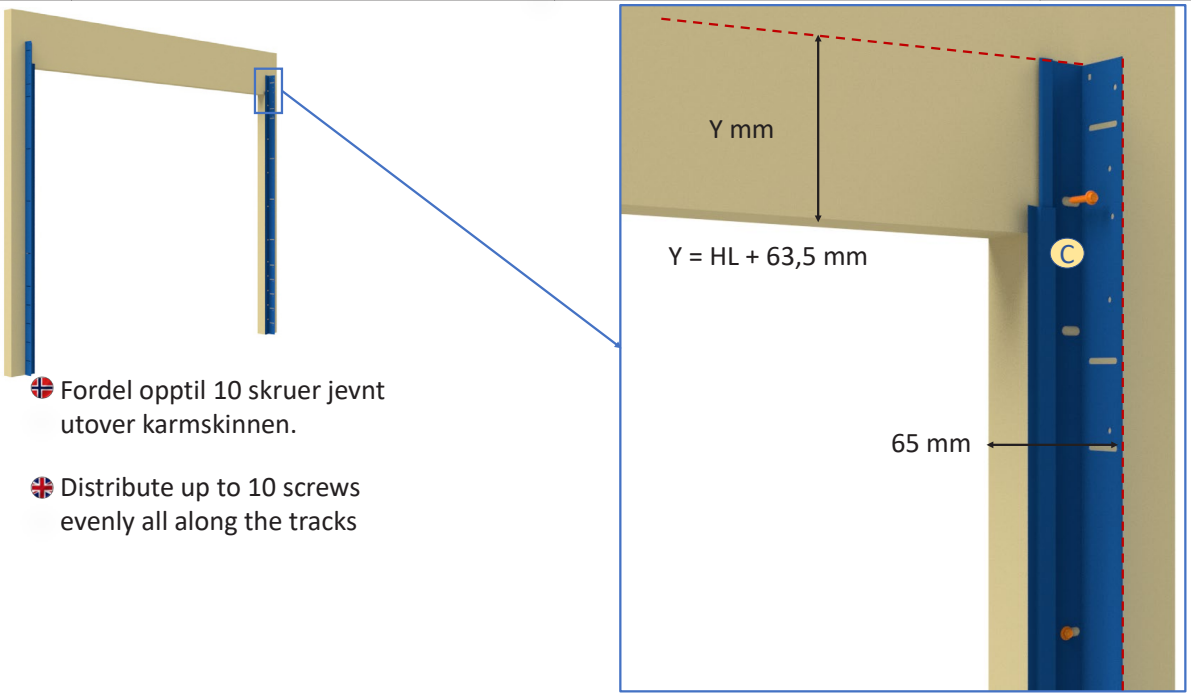
X = Variations in the floor
Y = Top of tracks. Equal on both sides of doorway



1-2	Montering av pakning	Assembling sealing	Montering tätningslist



1-3	Posisjonering av karmskinner	Positioning tracks	

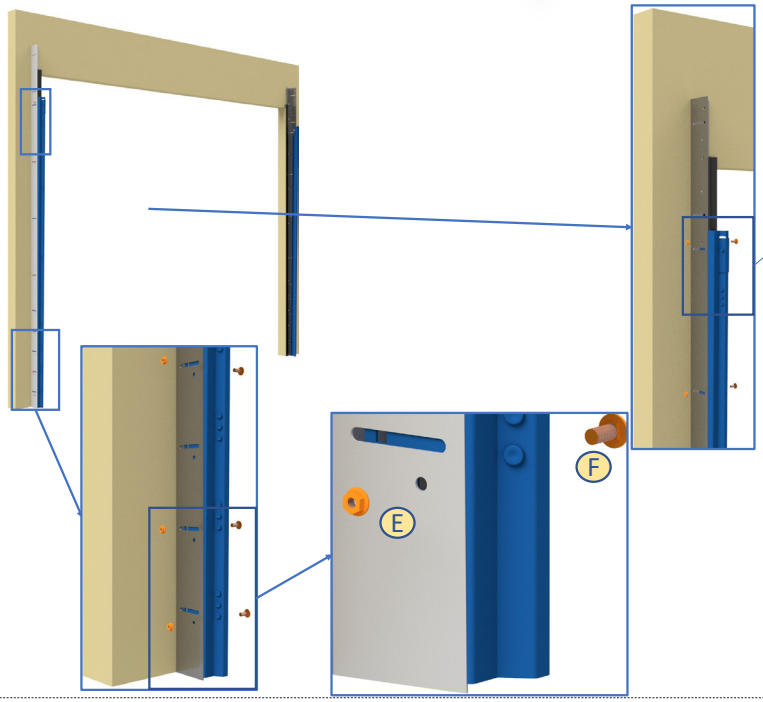


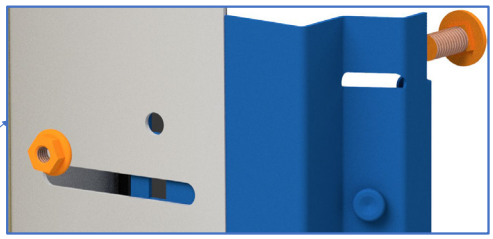
Fordel opptil 10 skruer jevnt utover karmskinnen.

Distribute up to 10 screws evenly all along the tracks

Pose/Bag:
L-47

1-4	Montering av vertikalskinner	Assembling vertical tracks	

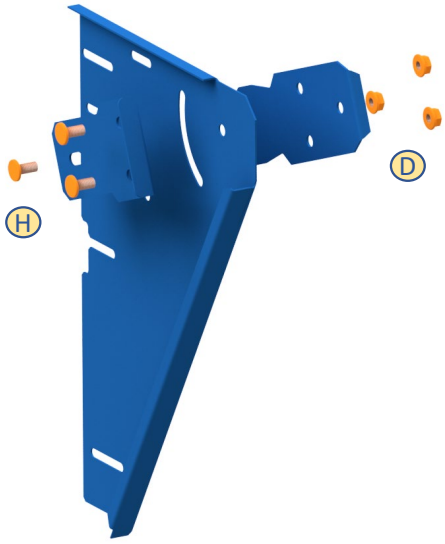


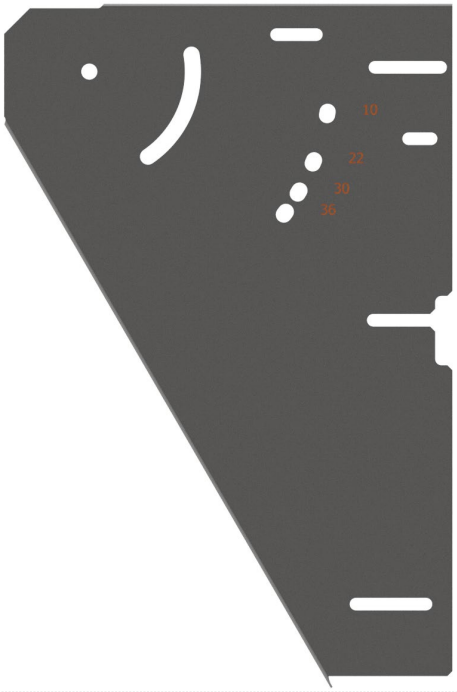


- Fordel skruer jevnt utover vertikalskinnen. Den øverste og nederste skruen settes i sirkulære hull
- Distribute screws evenly all along the tracks. The top and bottom screw is inserted in circular holes

Pose/Bag: L-138

2	Skråløft: Koblingsplate og endeplate		



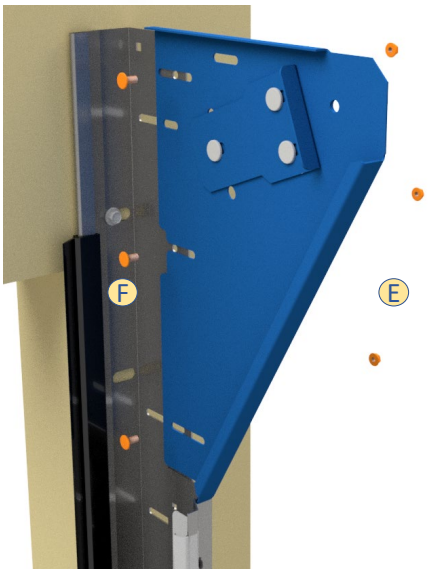


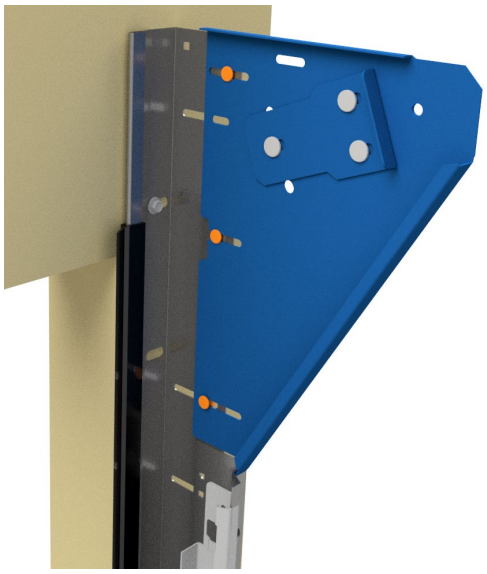
- Forsterkningsplater posisjoneres i hull tilsvarende nødvendig vinkel på takskinner.
- The reinforcement brackets must be positioned in holes corrsponding to the desired angle of the horiozontal tracks.

- Ikke stram skruene
- Do not tighten screws

Pose/Bag: L-103

2-1 Skråløft: Koblingsplate og endeplate





Ikke stram skruene

Do not tighten screws

Pose/Bag: L-138

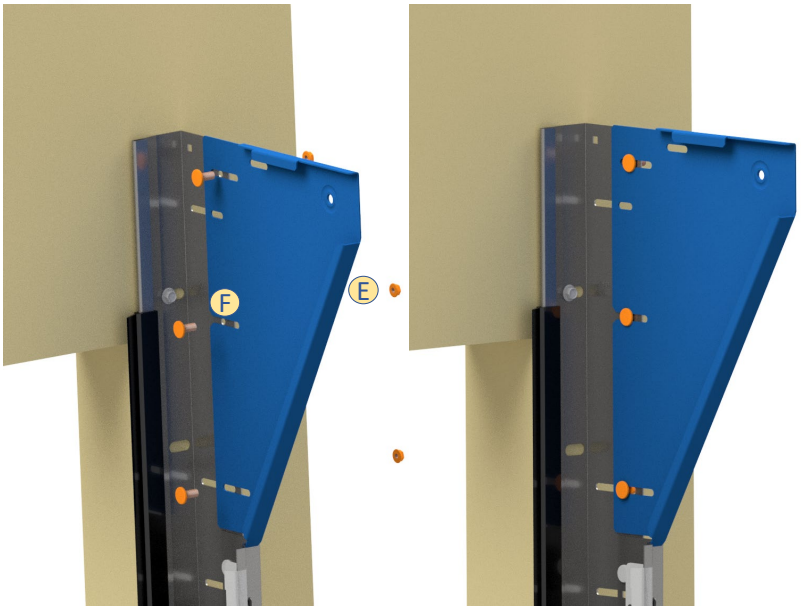
2-2 Skråløft: Sleide | Slider

Ikke stram til skruen

Do not tighten

Pose/Bag: L-39

2	Koblingsplate og endeplate		

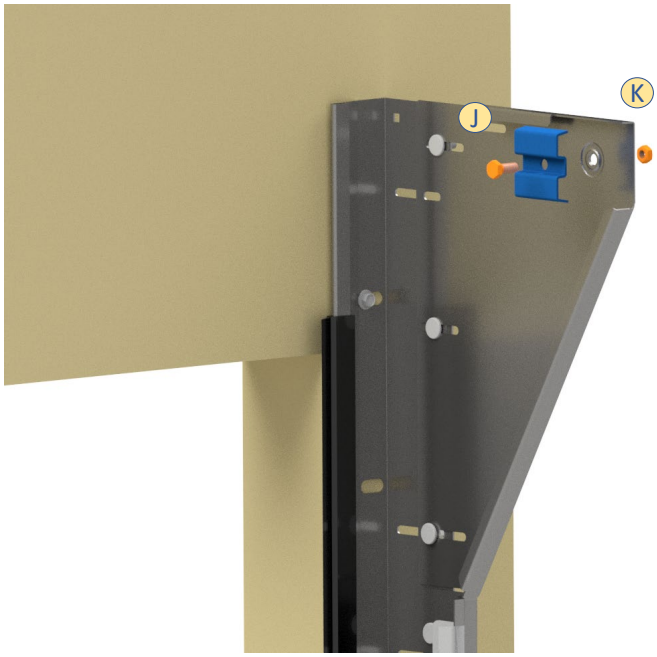


Ikke stram skruene

Do not tighten screws

Pose/Bag: L-138

2-1	Sleide	Slider	



Ikke stram til skruen

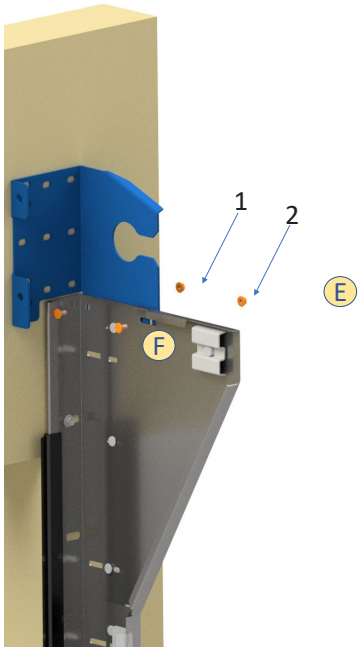
Do not tighten

Pose/Bag: L-39

2-2	Montering av endeplate				

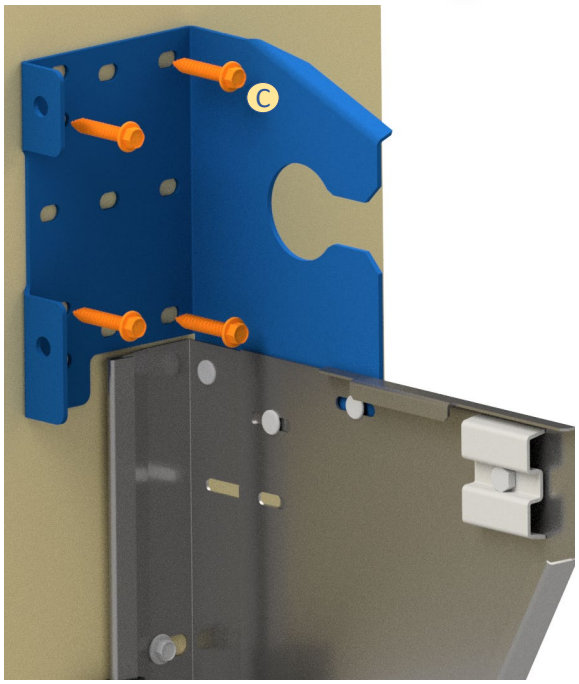
Stram til mutter 1
IKKE stram til mutter 2

Tighten nut 1
DO NOT tighten nut 2



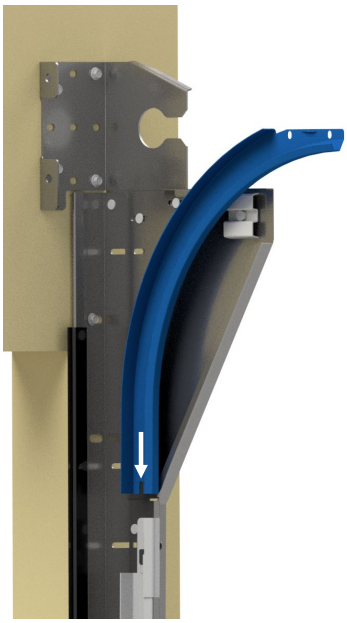
Pose/Bag: L-161

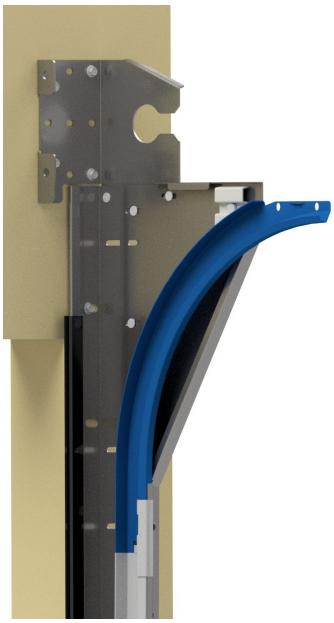
2-3	Montering av endeplate				



Pose/Bag: L-161

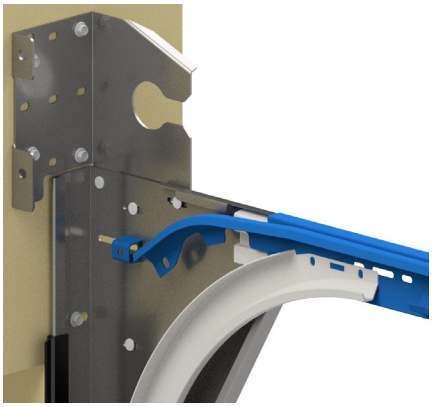
2-4 Montering av løs bue / Assemble radius tracks

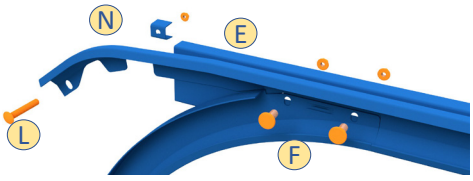




2-5 Montering av takskinner / Assembling horisontal tracks

- Ikke stram til skruen
- Do not tighten

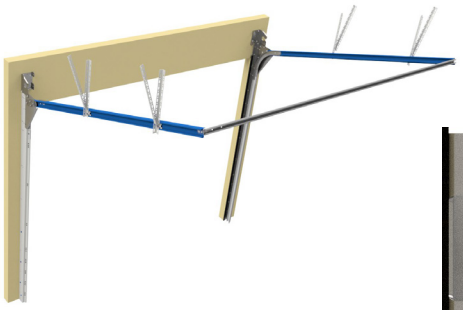


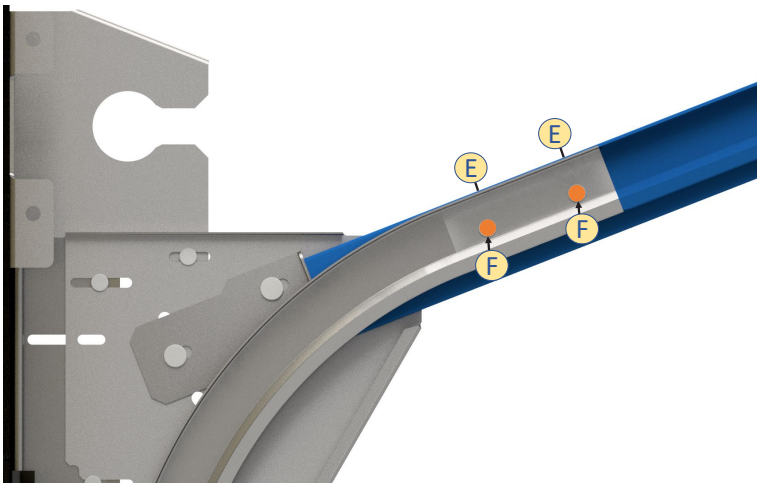


- Tips: Bruk tau til å holde takskinner på plass mens du monterer.
- Tip: Use ropes to maintain tracks in position while assembling.

Pose/Bag:
L-161
L-58

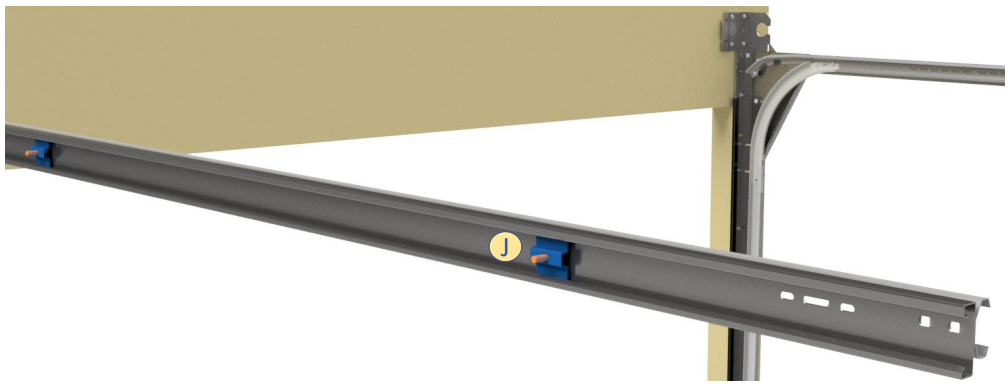
2-6 Montering av takskinner | Installation of horisontal tracks





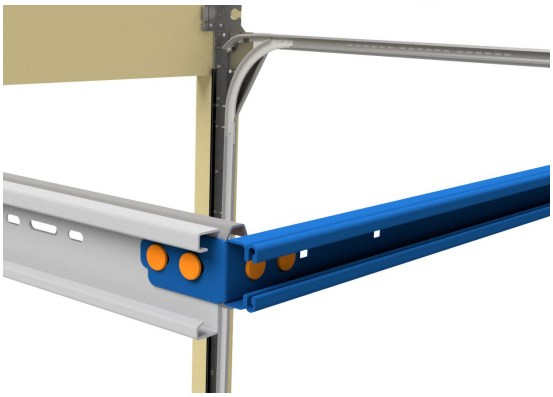
Pose/Bag:
L-161

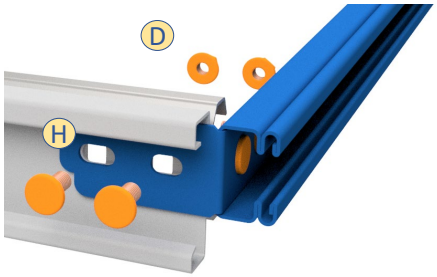
3 Montering av opphengsvinkler | Assembling roof attachments



Pose/Bag: L-57

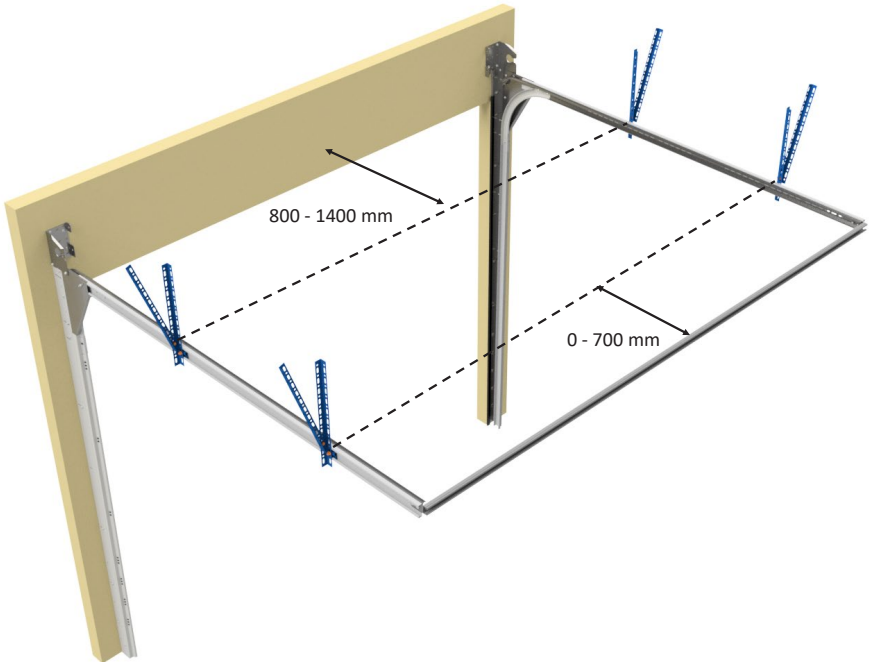
3-1	Montering av avstandsskinne	Assembling rear spacer	



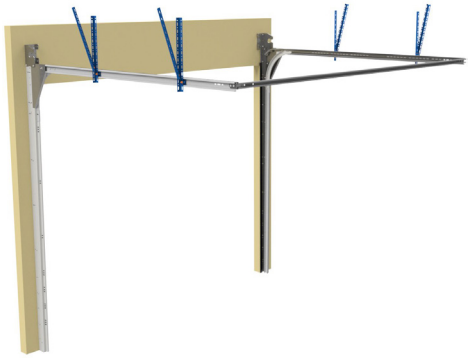


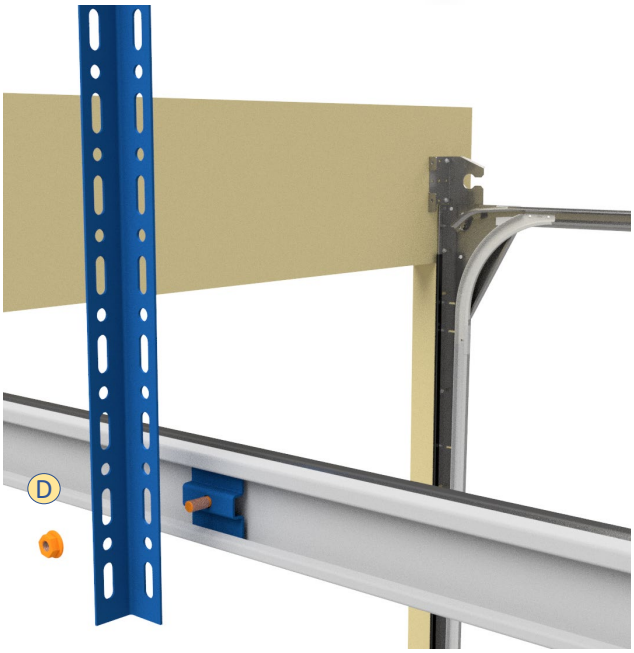
Pose/Bag: L-103

3-2	Montering av opphengsvinkler	Assembling roof attachments	



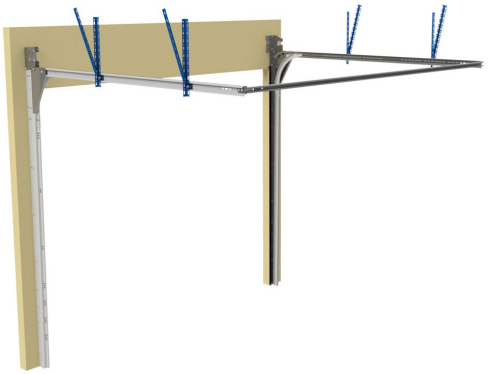
3-3	Montering av opphengsstag	Assembling roof attachments	

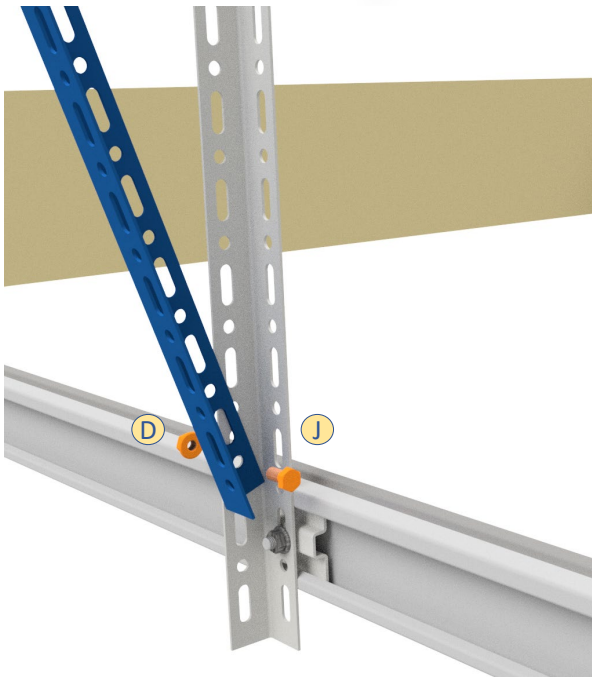




Pose/Bag:
L-57

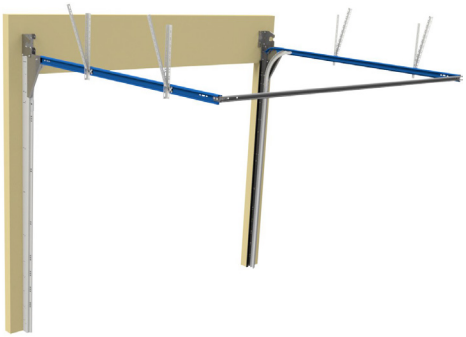
3-4	Montering av opphengsstag	Assembling roof attachments	

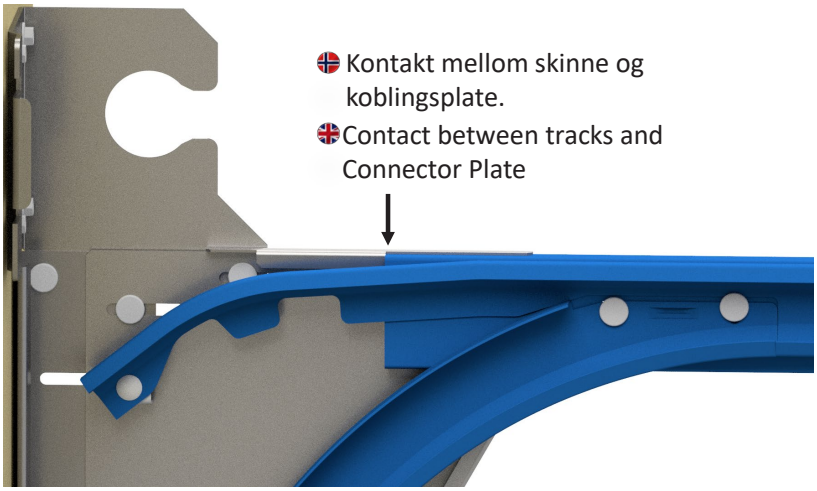




Pose/Bag:
L-57

3-5	Justering av takskinner	Assembling horisontal tracks	





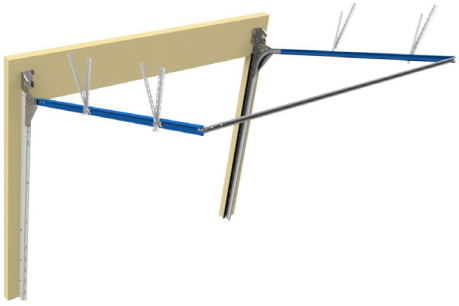
Kontakt mellom skinne og koblingsplate.

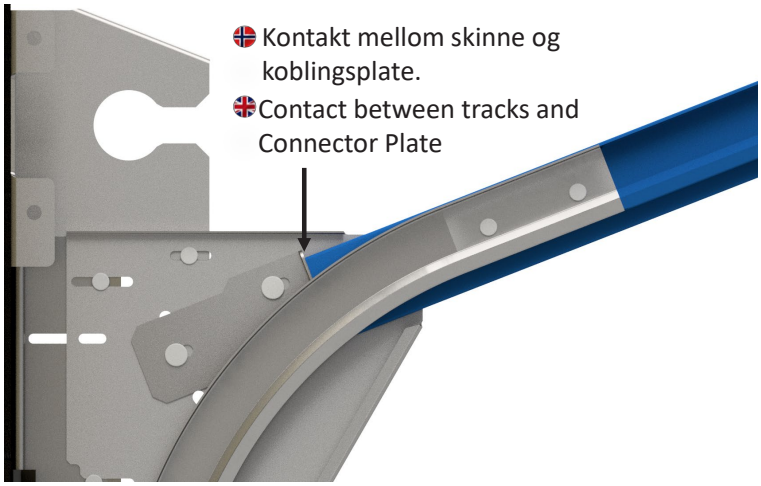
Contact between tracks and Connector Plate

Ikke stram skruene

Do not tighten screws

3-7	Skråløft: Justering av takskinner	Assembling horisontal tracks	





Kontakt mellom skinne og koblingsplate.

Contact between tracks and Connector Plate

Ikke stram skruene

Do not tighten screws

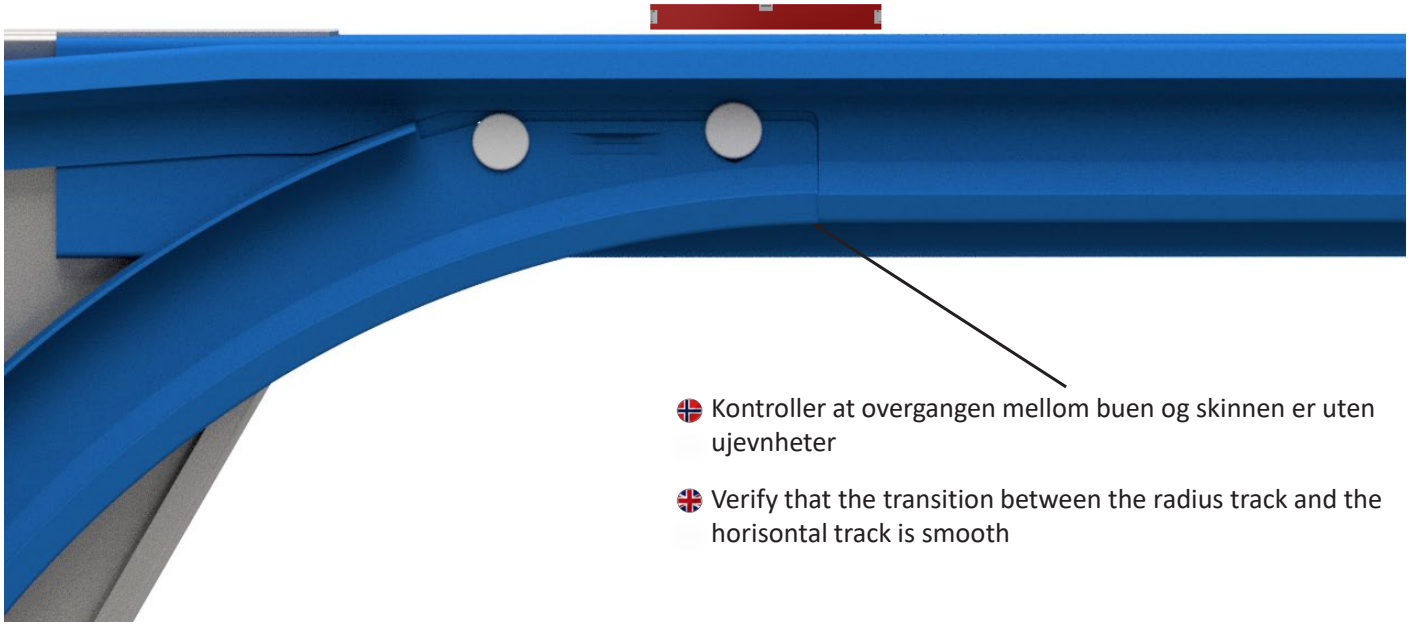
3-6	Stram mutter - Fest sleide	Tighten nut – Attach slider	

3-8	Skråløft: Stram mutter - Fest sleide og forsterkningsplater	Tighten nut – Attach slider and reinforcements	

Kontroller at takskinner er parallelle

Verify that the tracsk are parallel

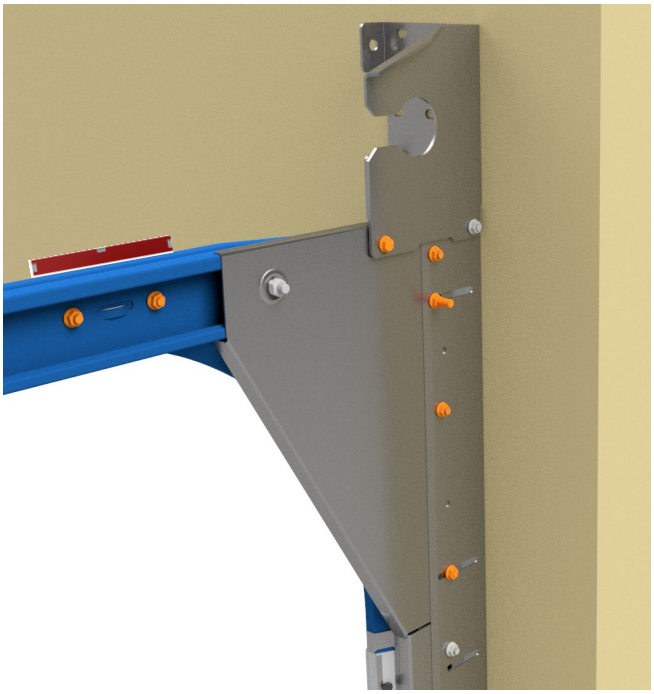
3-7	Justering av takskinner	Assembling horisontal tracks	



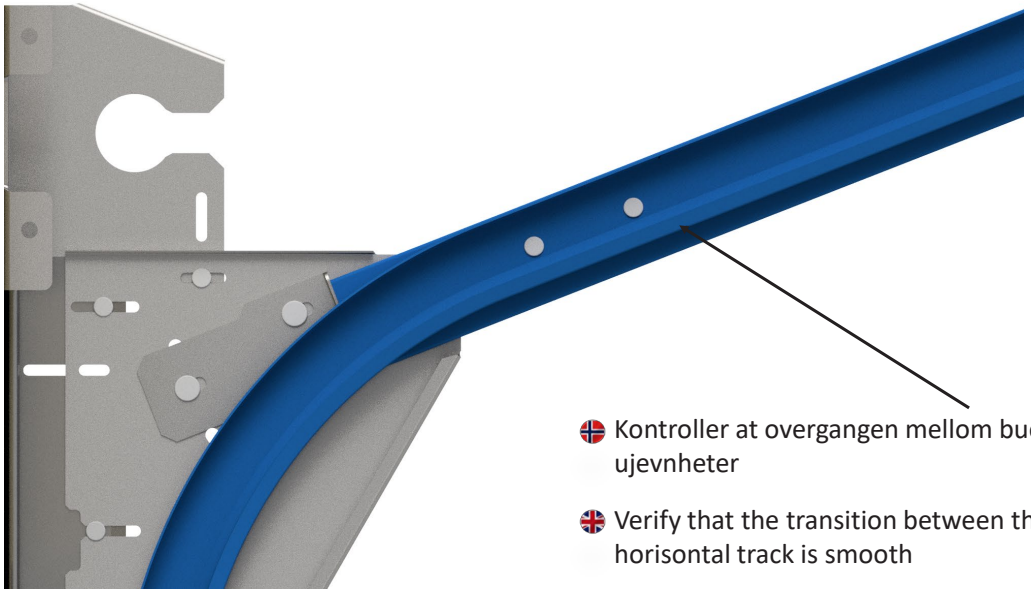
Kontroller at overgangen mellom buen og skinnen er uten ujevnheter

Verify that the transition between the radius track and the horisontal track is smooth

3-8	Stram skruer	Tighten screws	



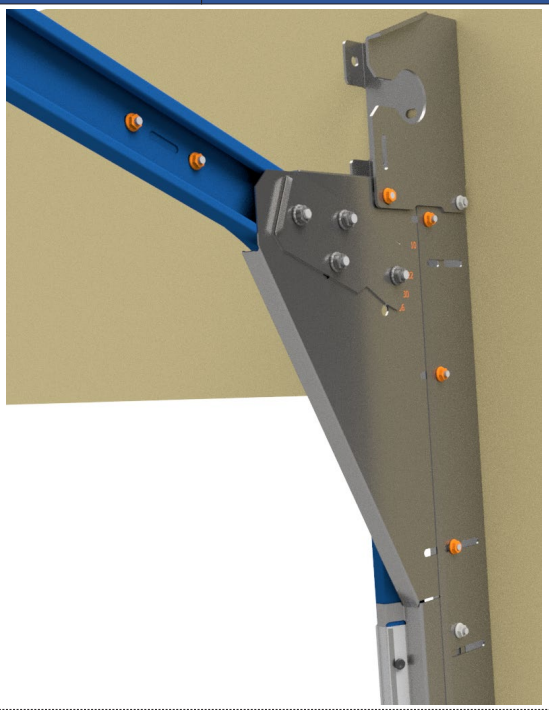
3-9 Justering av takskinner / Assembling horisontal tracks



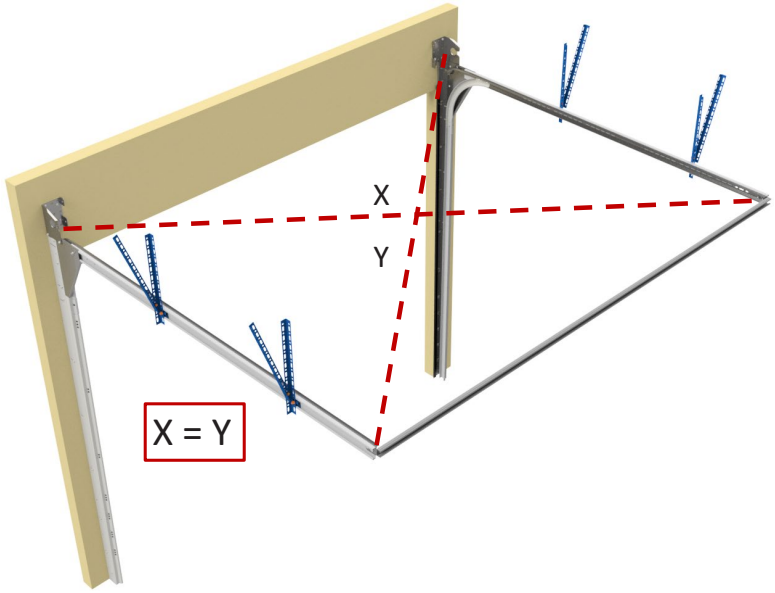
Kontroller at overgangen mellom buen og skinnen er uten ujevnheter

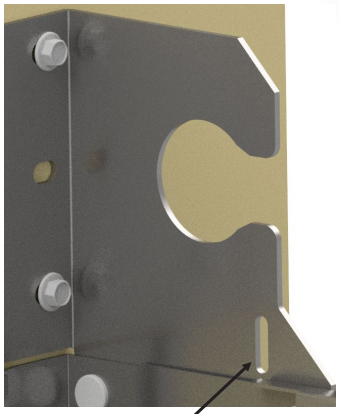
Verify that the transition between the radius track and the horisontal track is smooth

3-10 Skråløft: Stram skruer / Tighten screws



3-9	Kontrol av diagonal	Control the diagonal	

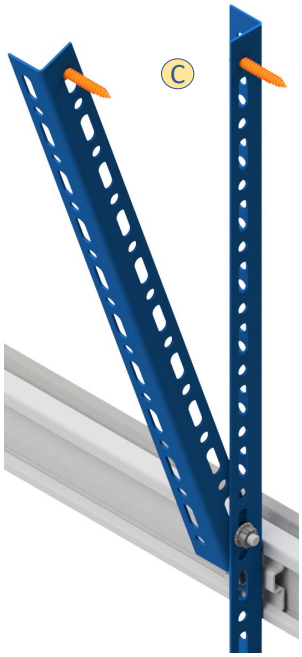




Bruk spor til å feste målebånd i endeplate

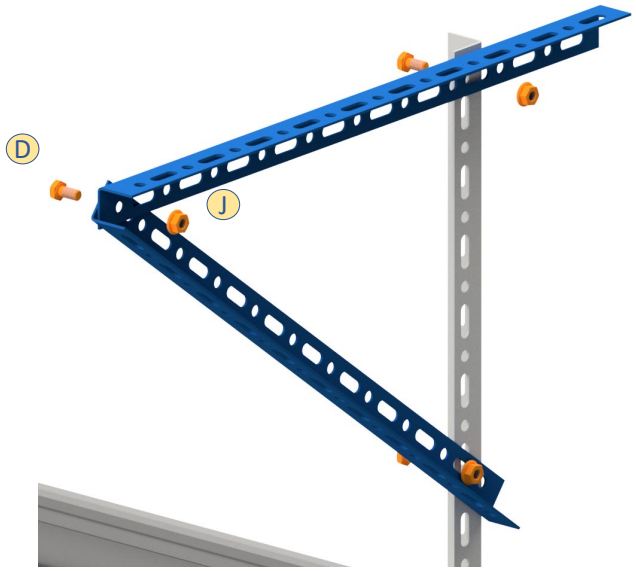
Use the slot to attach the measuring tape in the bracket

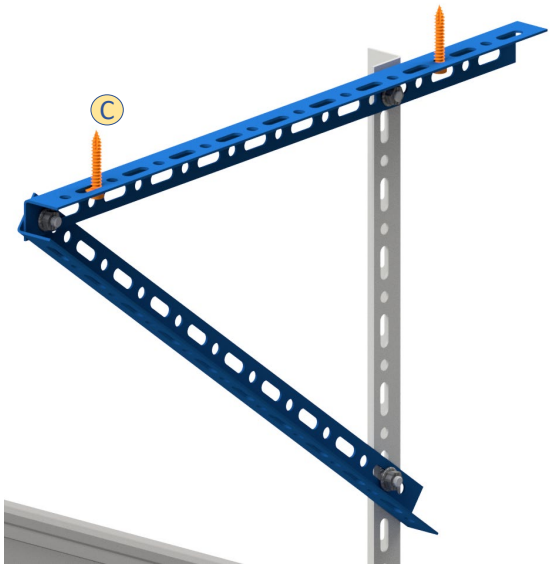
3-10	Skru opphengsstag fast i tak (horisontalt)	Attach roof attachments to roof (horisontally)	



Pose/Bag:
L-57

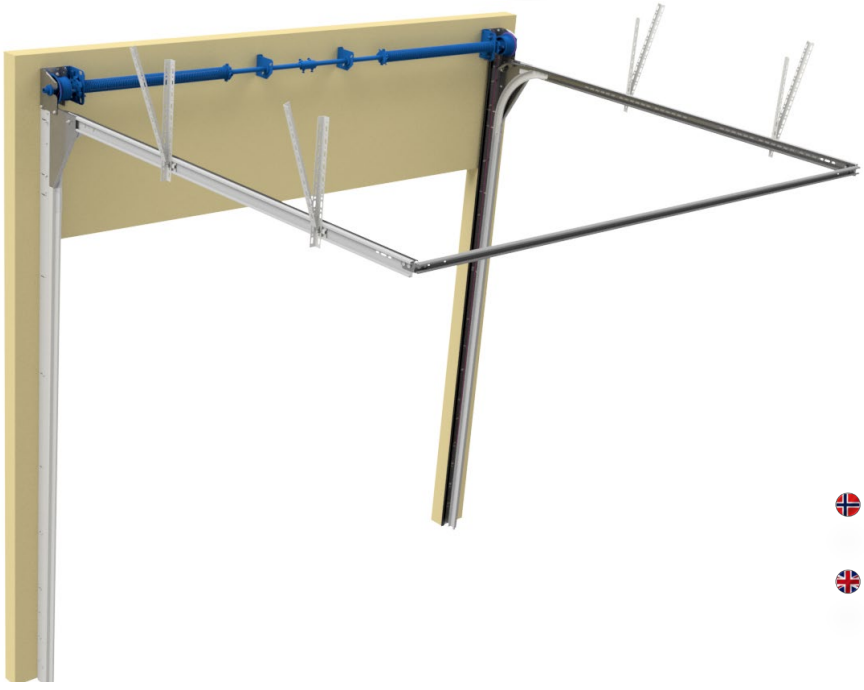
3-11	Skru opphengsstag fast i tak (vertikalt)	Attach roof attachments to roof (vertically)	





Pose/Bag:
L-57

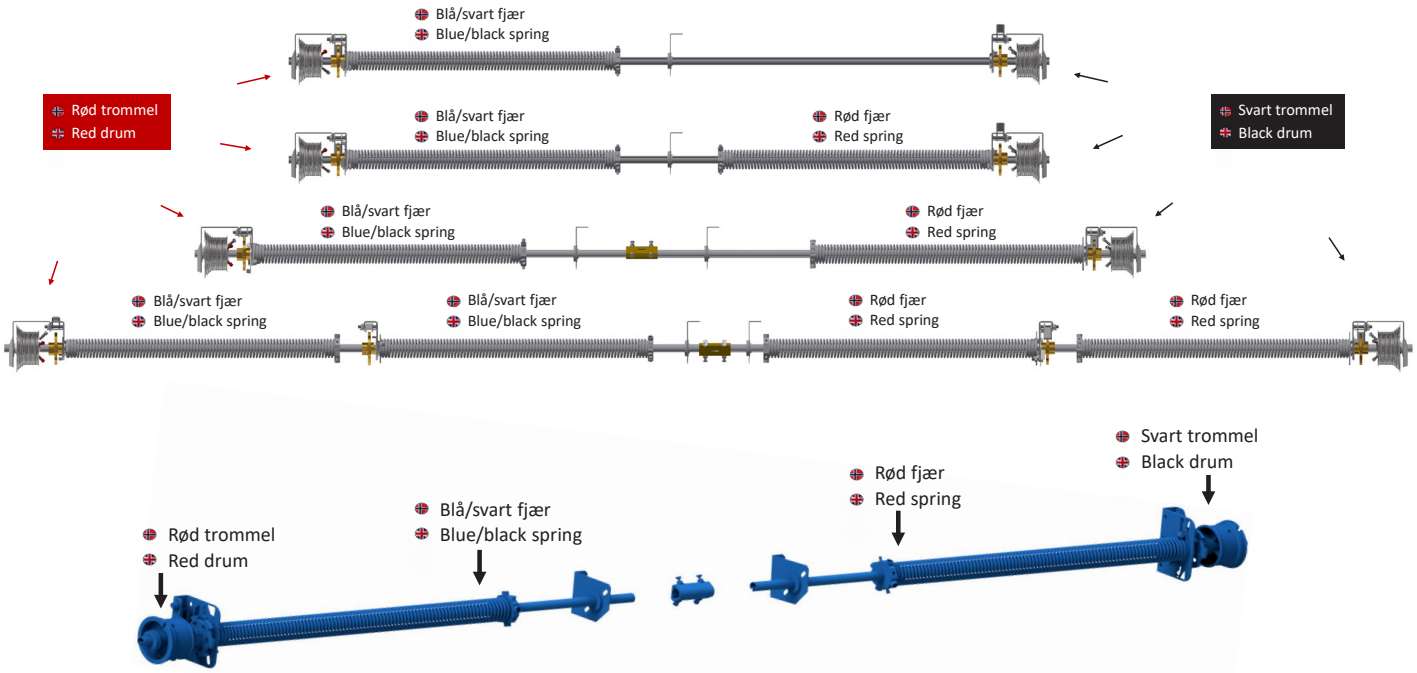
4	Montering av torsjonsaksling	Assemble shaft	



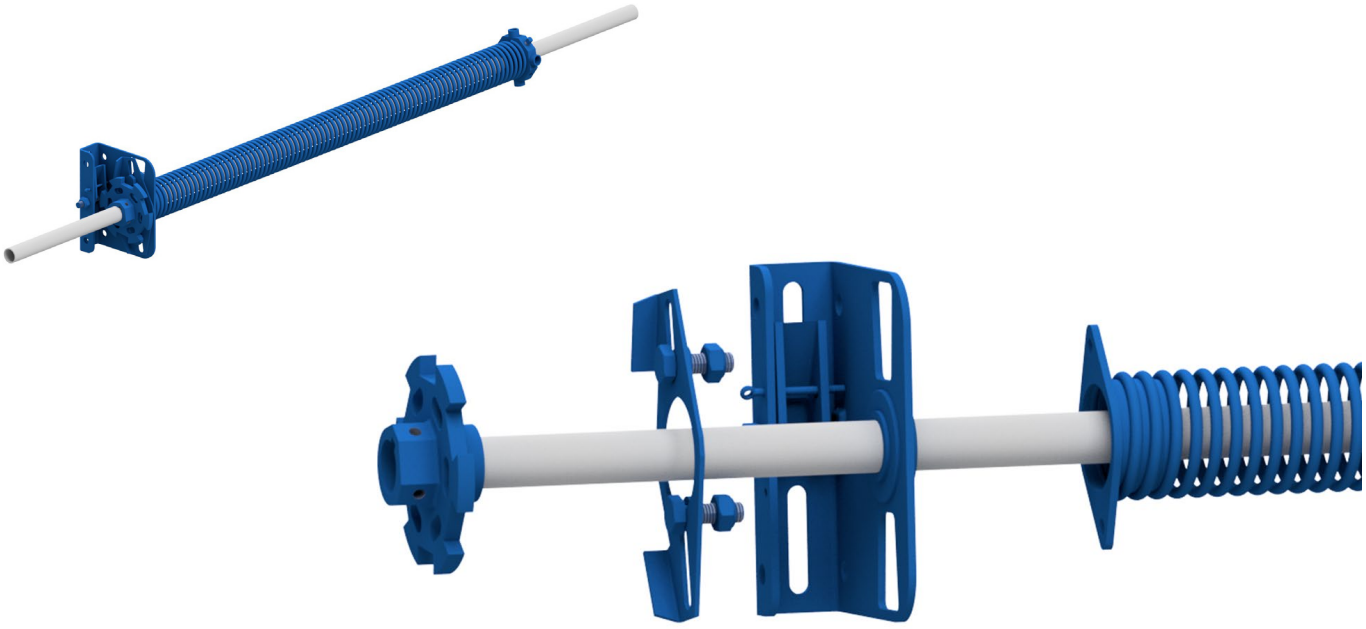
Tips: Sett sammen aksling og deler på bakken

Tip: Assemble shaft and parts on the ground

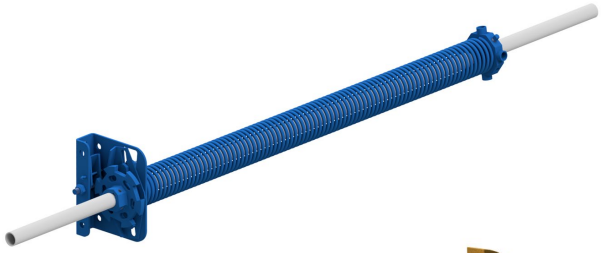
4-1	Aksling og fjær	Shaft and spring	

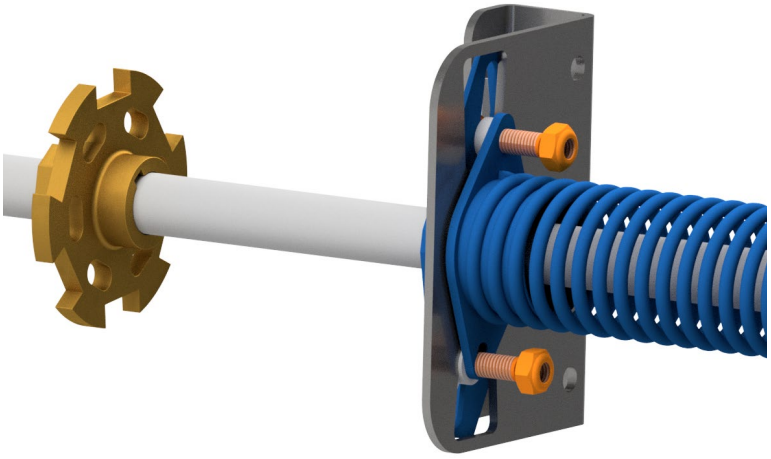


4-2	Montere fjær og fjærbruddsikring på aksling	Assemble spring ad spring break device on shaft	



4-3	Montere fjær og fjærbruddsikring på aksling	Assemble spring ad spring break device on shaft	



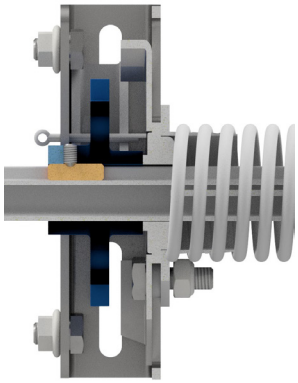


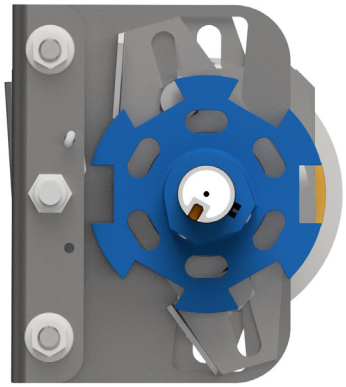
Monter fjær og festeplate

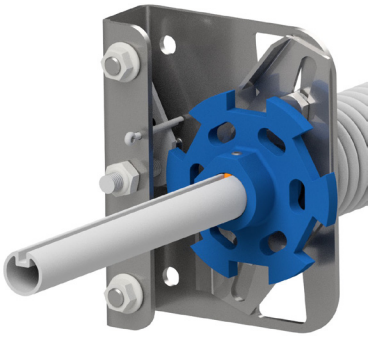
Assemble spring and bracket

Pose/Bag:
L-105

4-4	Montere fjær og fjærbruddsikring på aksling	Assemble spring and spring break device on shaft	







Posisjonering av tannkrans. Husk å posisjonere kile(oransje på bildet).

Position gir. Don't forget to position the wedge (in orange in the images).

Pose/Bag:
L-105

4-5	Kapp vaier	Kapp vaier	

IKKE kapp denne enden!

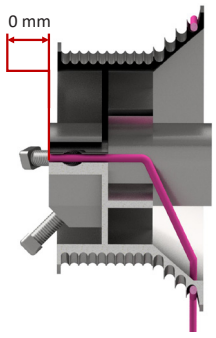
DO NOT cut this end of the cable!

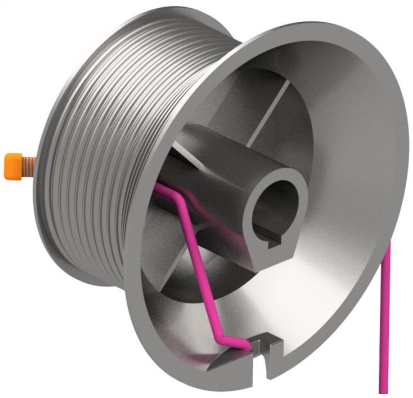
X (mm) = 6000 - (DH+1877)

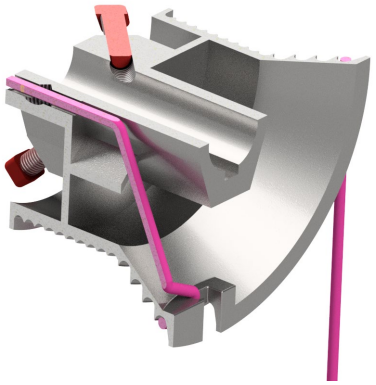
Kapp av X m av vaieren. Teip enden for å hindre at vaieren splintres.

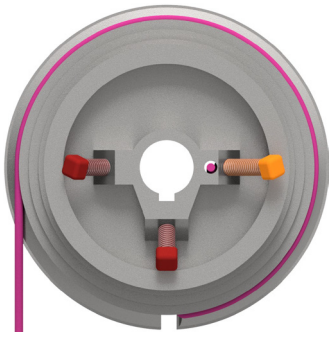
Cut the cable lenght X m off. Use duct tape to prevent the cable from disintegrating.

4-6	Tre vaier gjennom trommel.	Enter cable through drum	





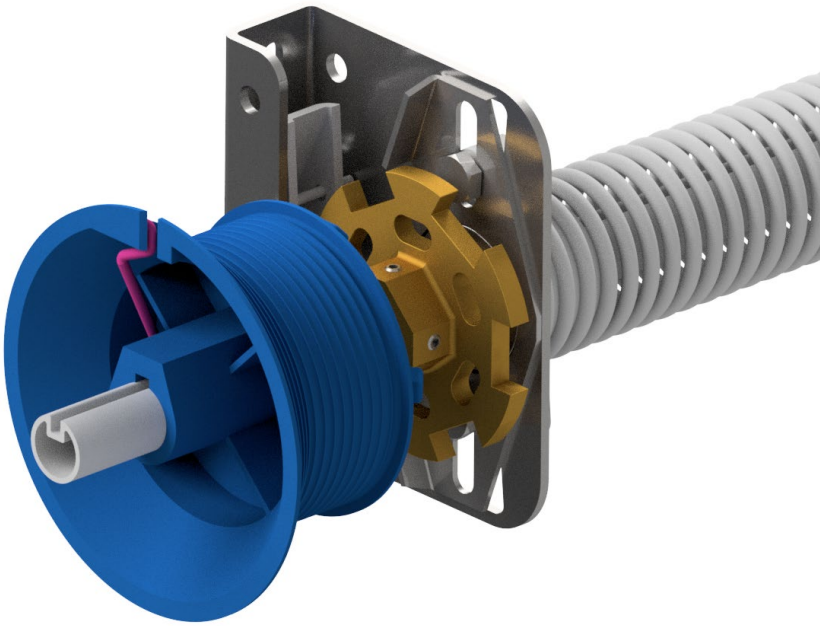




Vaieren trekkes gjennom trommelen og enden på vaieren skal ligge kant i kant med trommelen. Fest vaieren med skrue (oransje på bildet)

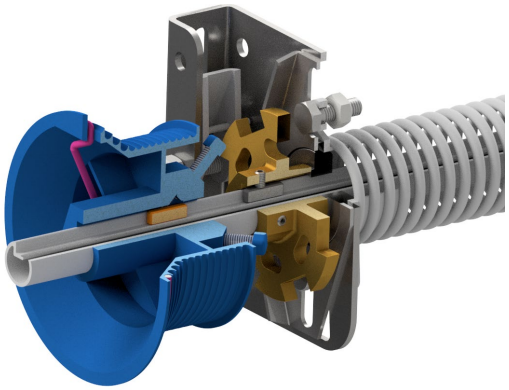
Pulle the cable through the drum. The end of the cable should not depass the drum, nor be inside the drum. Attach cable with screw (orange in picture)

4-7	Tre trommel innpå aksling	Enter drum on shaft	

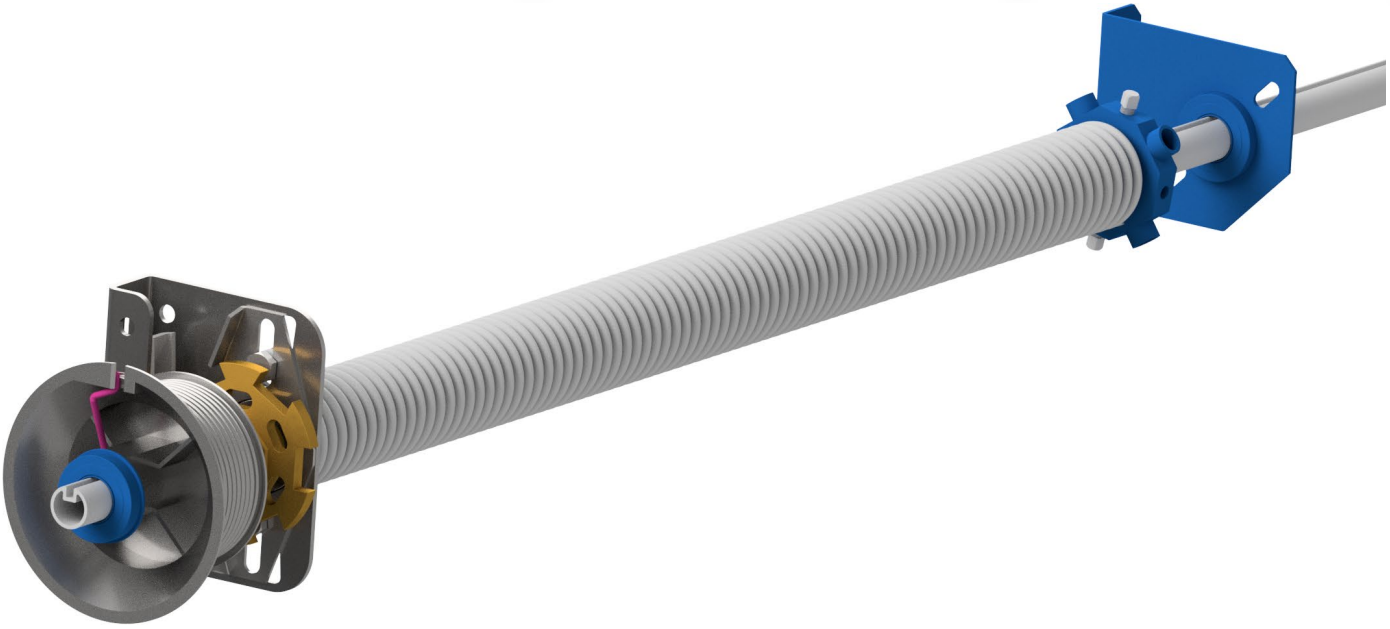


Posisjoner kile (oransje) mellom aksling og trommel

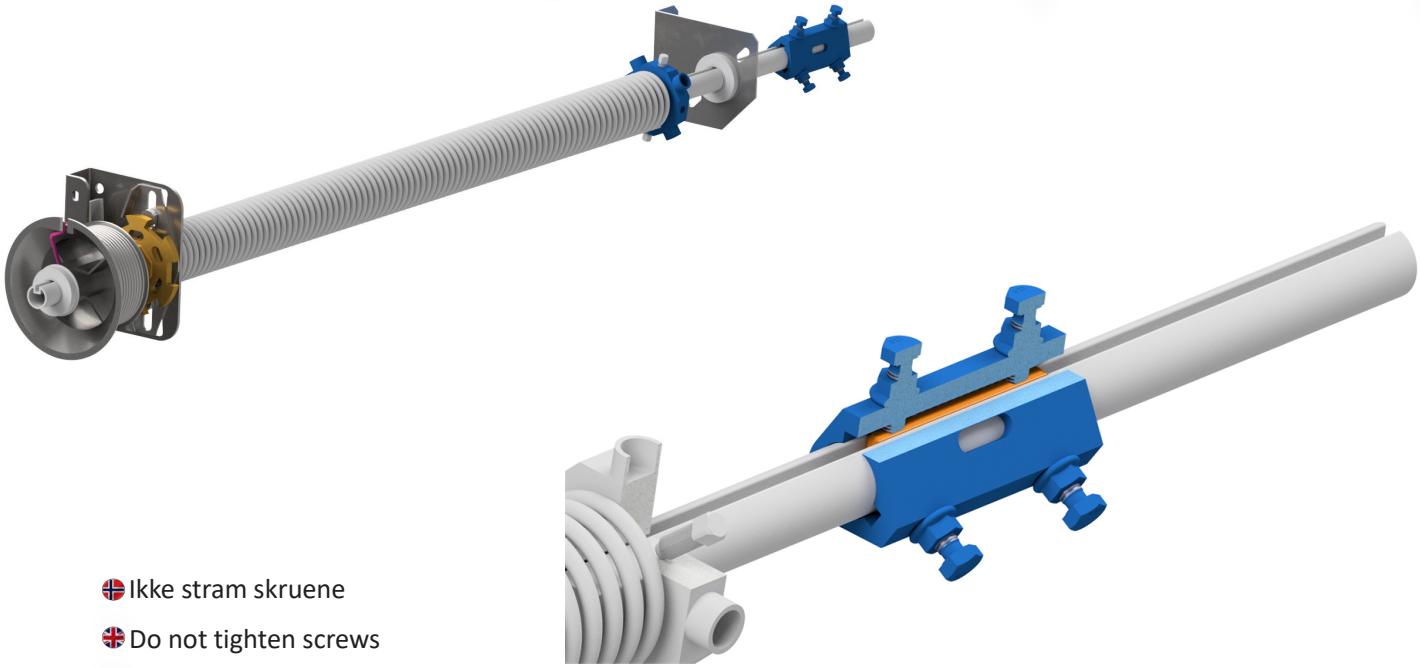
Position wedge(in orange) between shaft and drum



4-8	Tre lager og midtplate inn på aksling	Enter bearing and bracket on shaft	



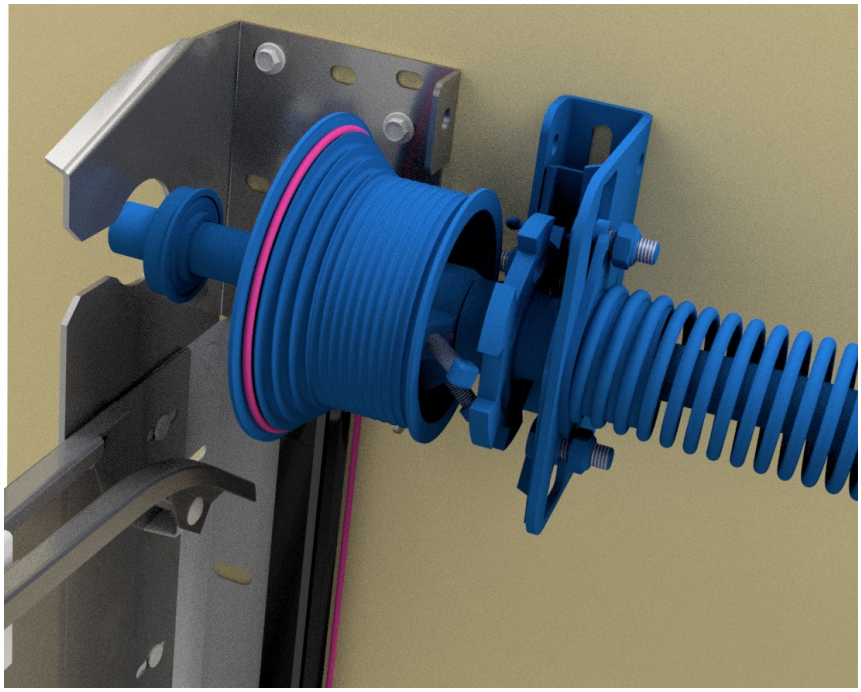
4-9	Tre kobling og kile inn på aksling	Enter coupler and wedge on shaft	



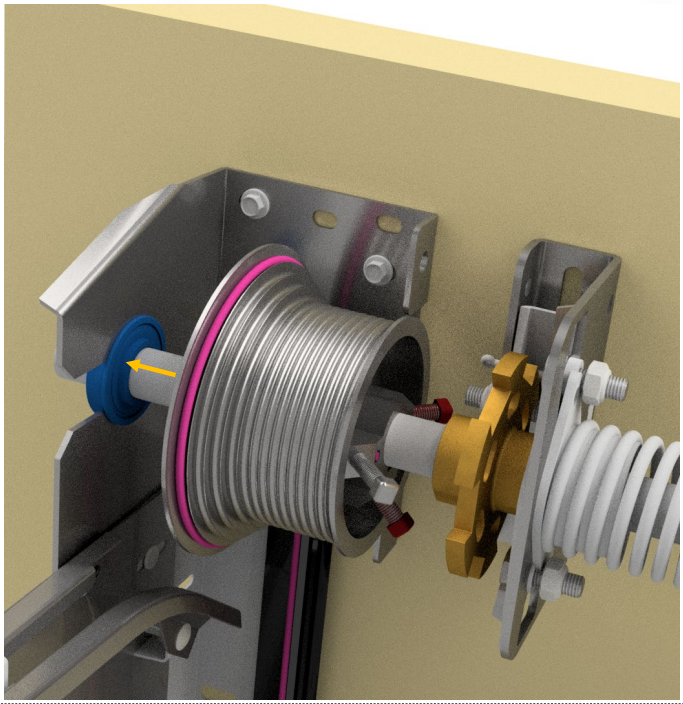
Ikke stram skruene

Do not tighten screws

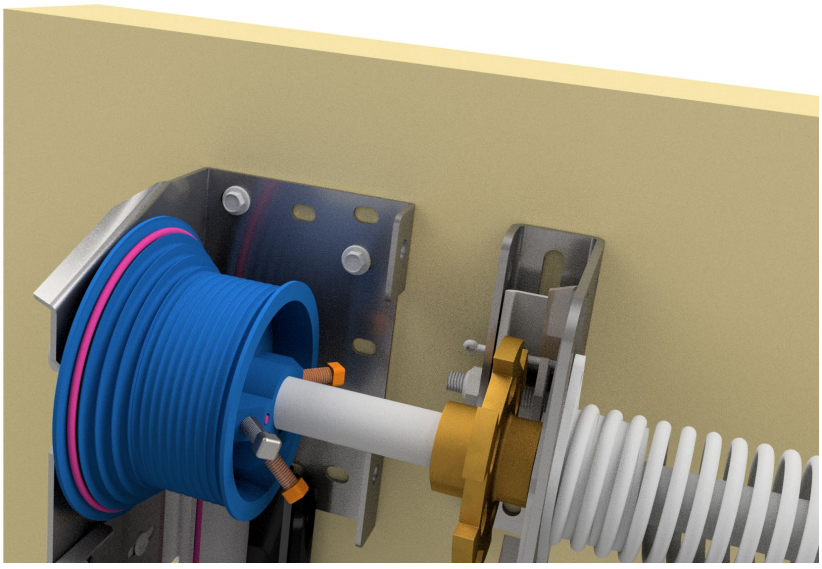
4-10	Heng aksling i endeplate	Position shaft in bearing bracket	



4-11	Posisjoner lager	Position bearing	

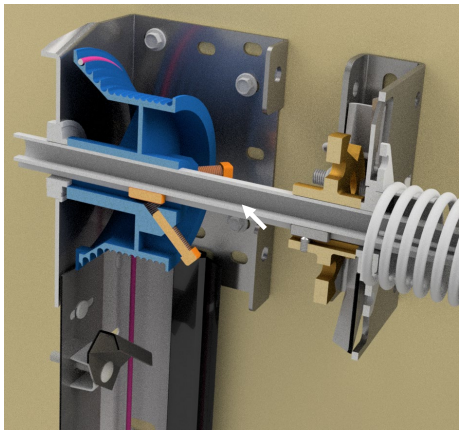


4-12	Posisjoner trommel – Skal være i kontakt med lager	Position bearing – Must be in contact with bearing	

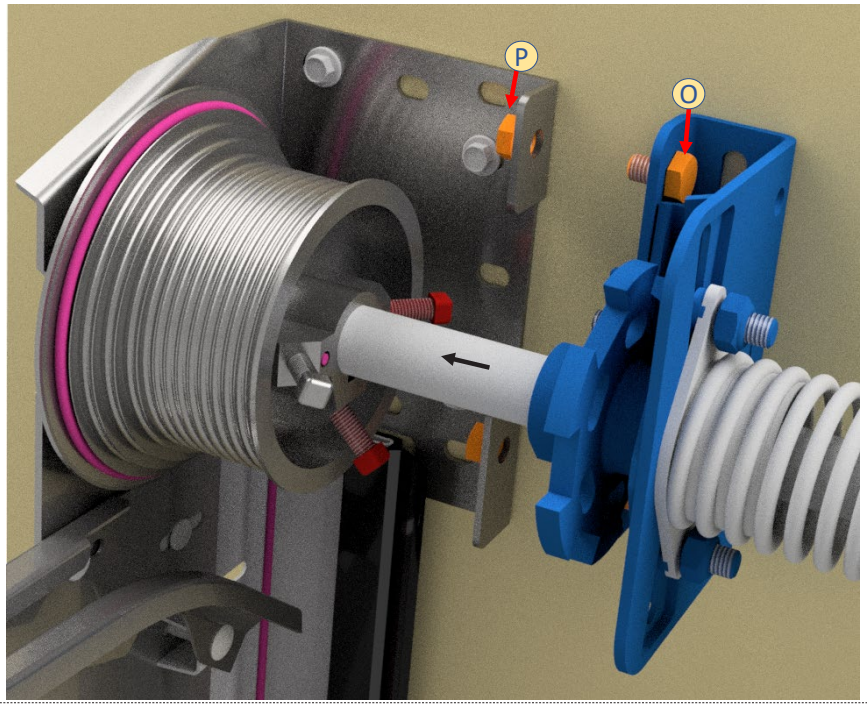


Fest trommel til aksling med kile og skruer (i oransje)

Attach drum to shaft with wedge and screws (in orange)

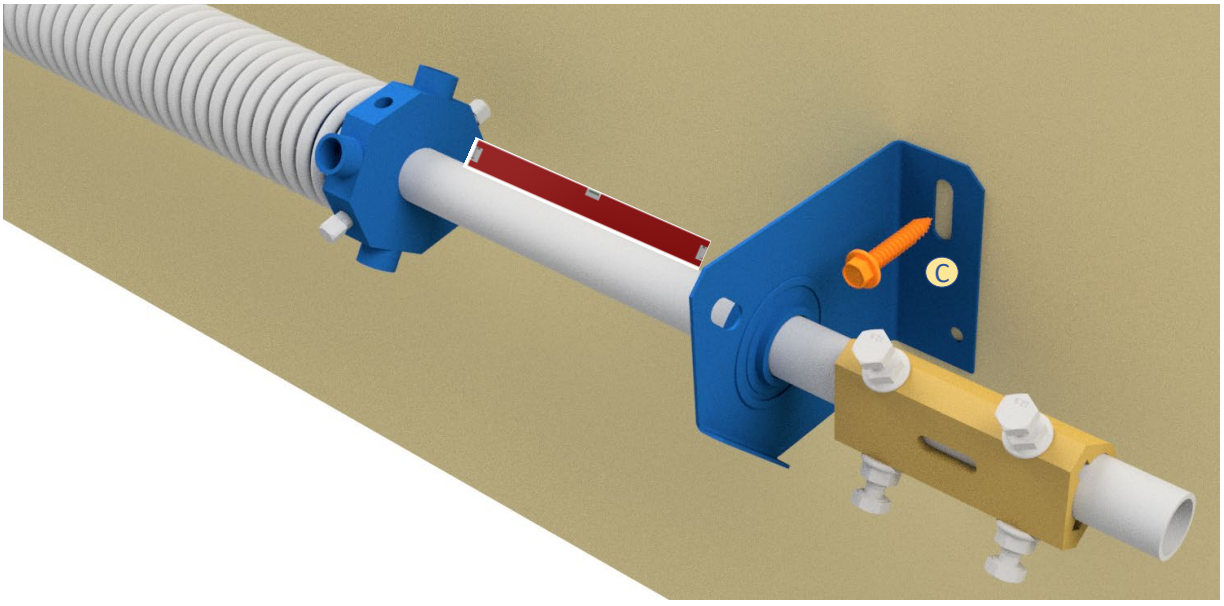


4-13	Posisjoner fjærbruddsikring	Position spring break device	



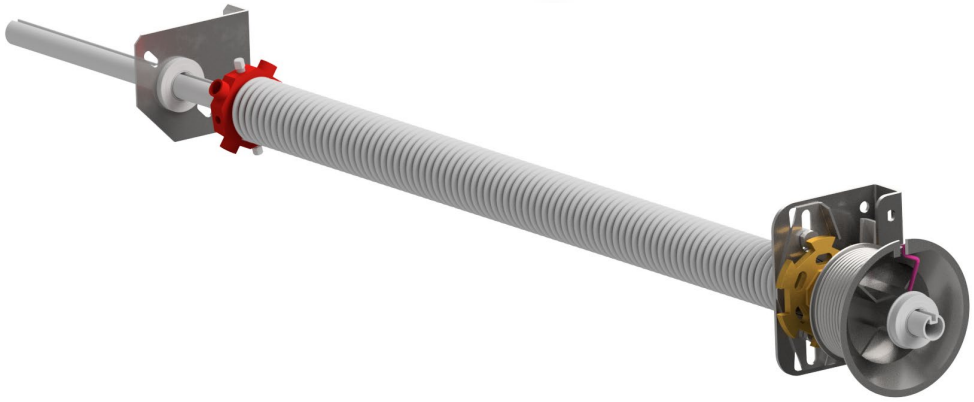
Pose/Bag: L-67

4-14	Monter midtplate	Assemble bracket	



Pose/Bag: L-67

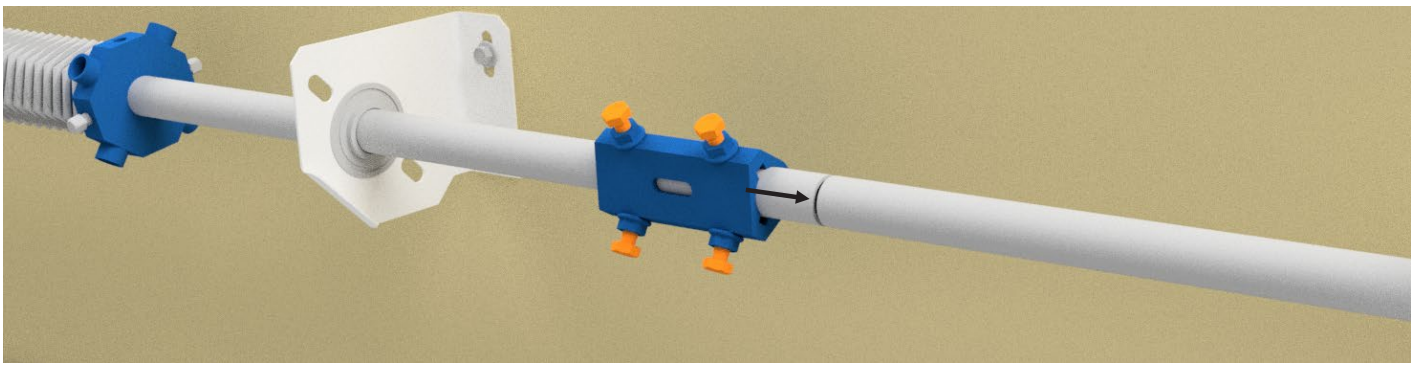
4-15	Aksling nr 2	Second shaft	



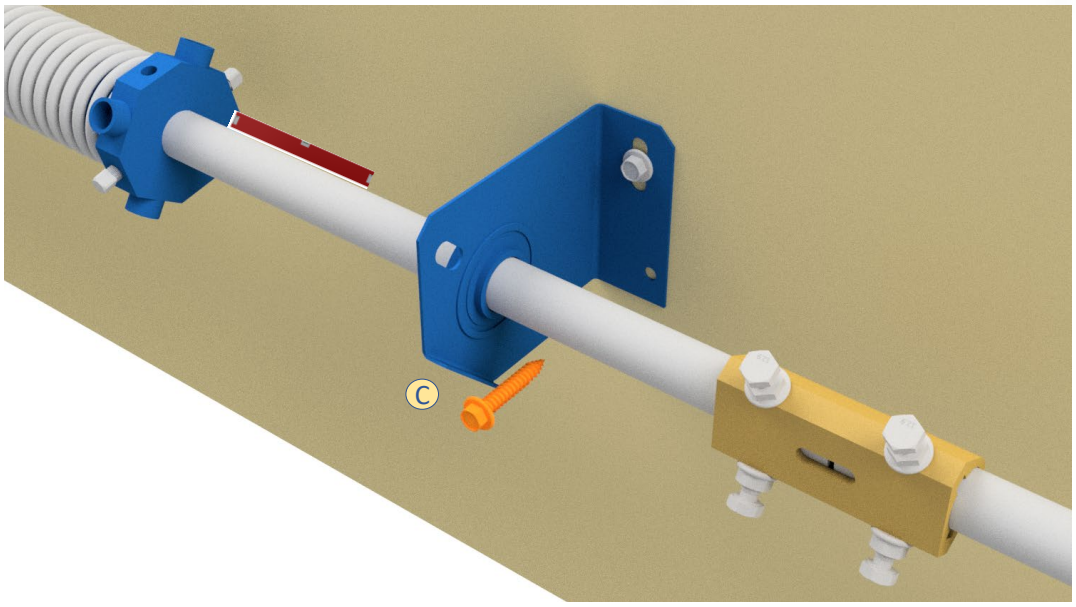
Repeter foregående steg for montering av aksling, fjær og fjærbruddsikring, trommel, lager, og midtplate

Repeat previous steps for assembling of shaft, spring and spring break device, drum, bearing, and bracket

4-16	Kobling av akslinger	Connecting shafts	



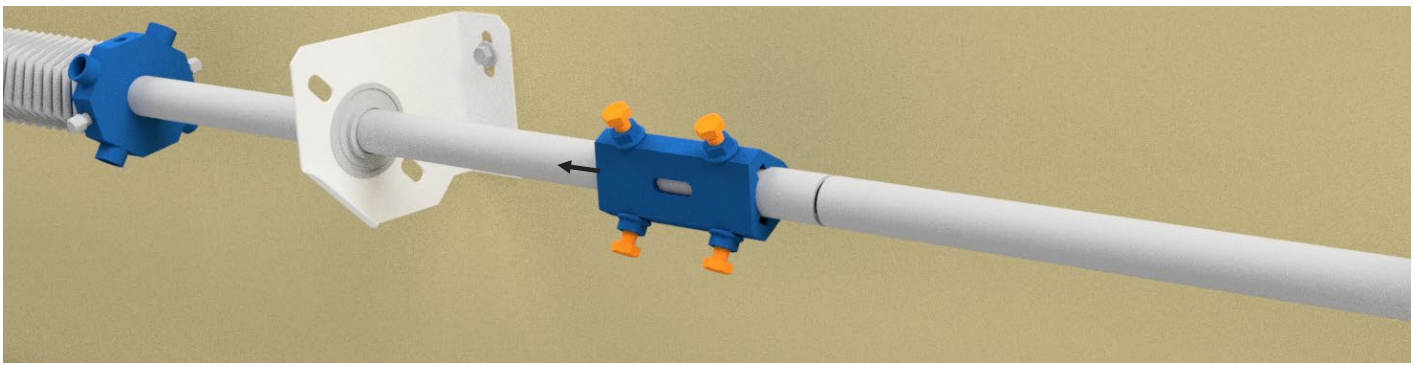
4-17	Juster aksling - Monter midtplate	Adjust shaft – Attach brachet	



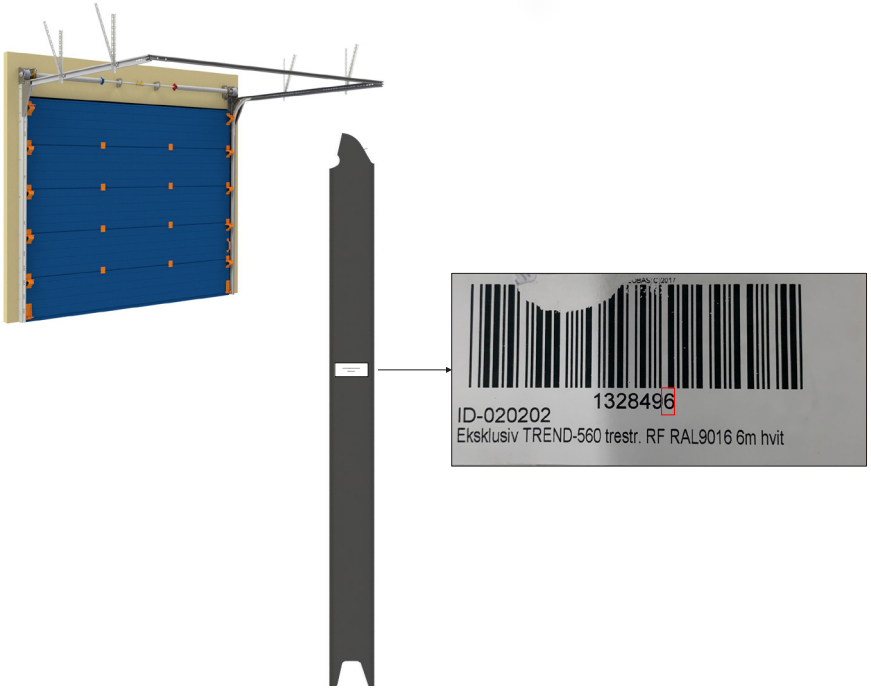
- Kontroller at aksling er rett og roterer uten variasjoner FØR du fester skruen.
- Verify that the shaft is rotating correctly (without circular variations) BEFORE assembling the screw.

Pose/Bag: L-67

4-18	Koble akslnger fra hverandre	Disconnect shafts	



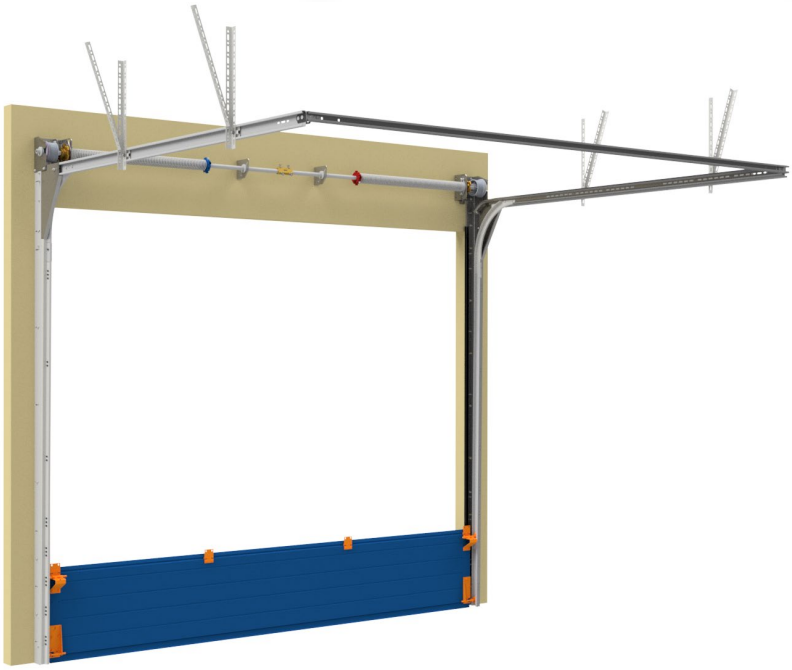
5	Monter portelementer	Assemble door panels	



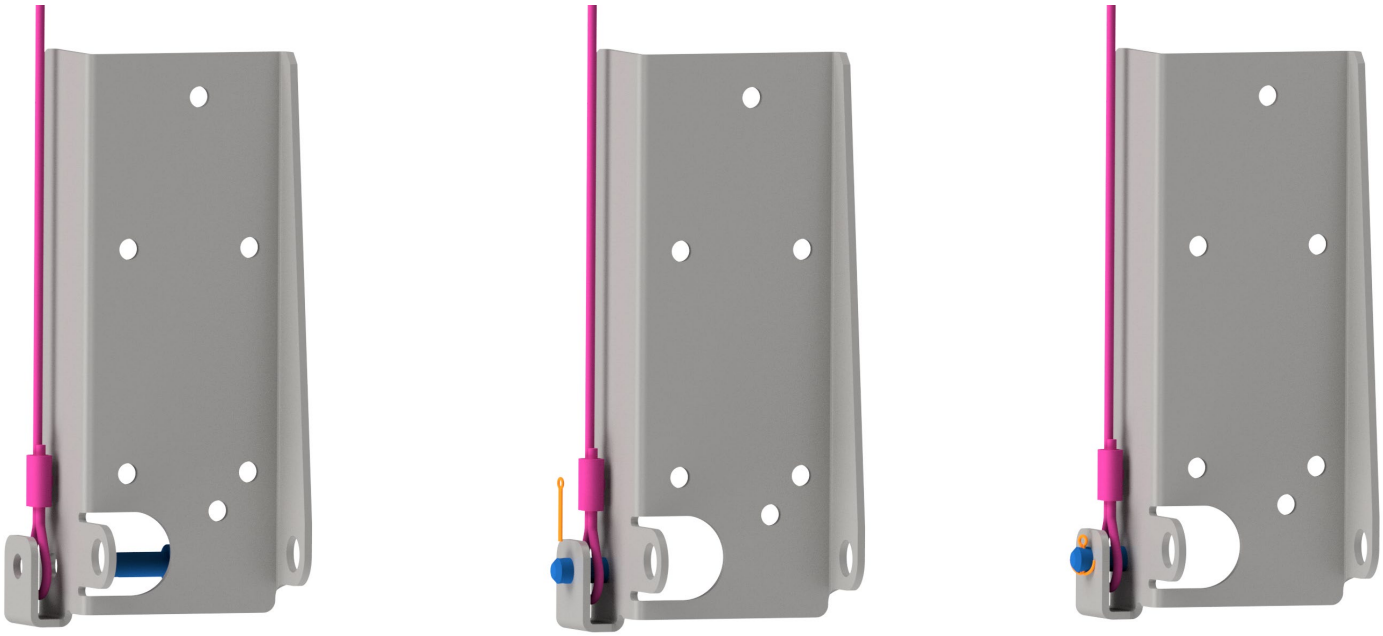
Monter portelementer i riktig rekkefølge. Elementene er nummerert (i monteringsrekkefølge fra bunnen) på etiketten klistret på siden av elementet. Det er det siste tallet under strekkoden som indikerer posisjonen til elementet.

Assemble the door panels in the right order. The panels are numerated (in the assembly order from the bottom) on a sticker attached on the side of each panel. It is the last digit in the number under the barcode that indicates the position of the panel.

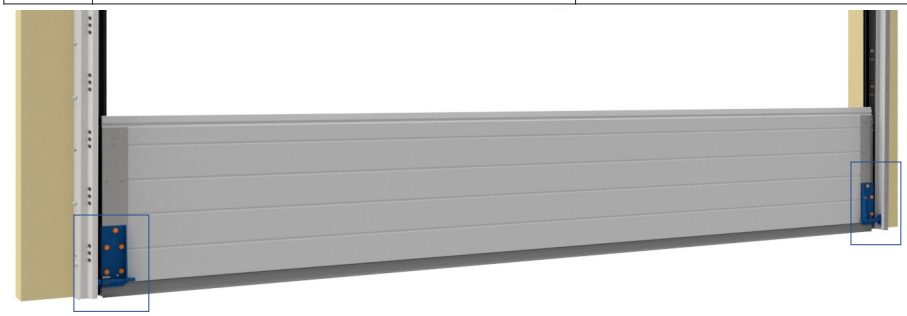
5-1	Monter nederste portelement	Assemble bottom door panel	

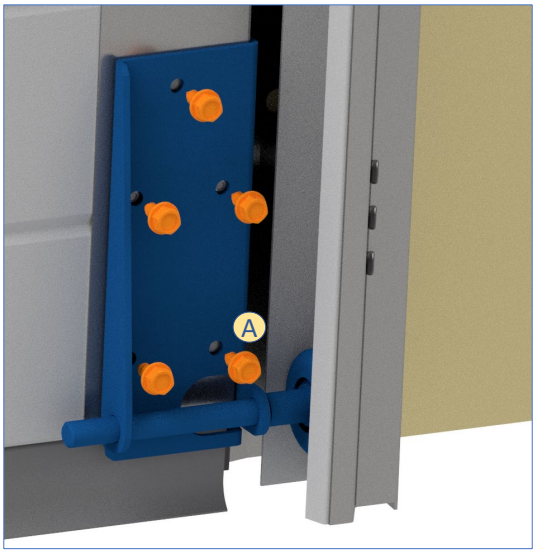


6-2	Monter vaier på bunnbrakett	Connect cable to bottom bracket	



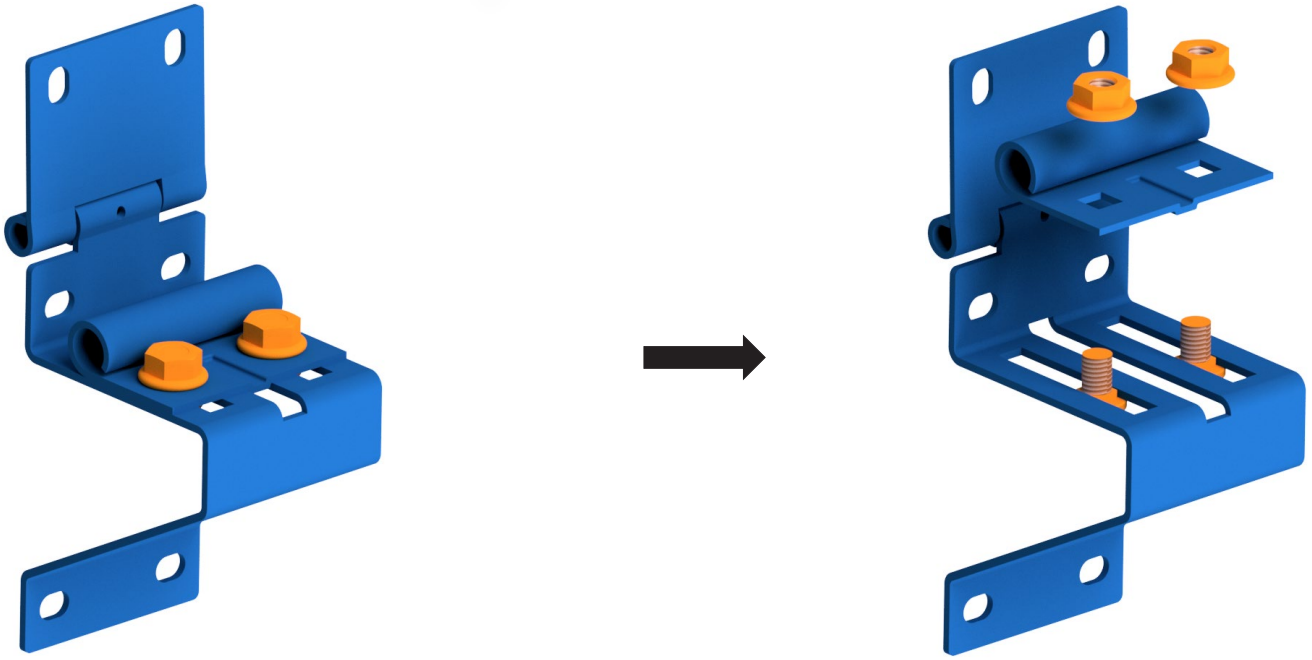
5-3	Montering av bunnbrakett	Assemble bottom bracket	





Pose/Bag:
L-95/L-96

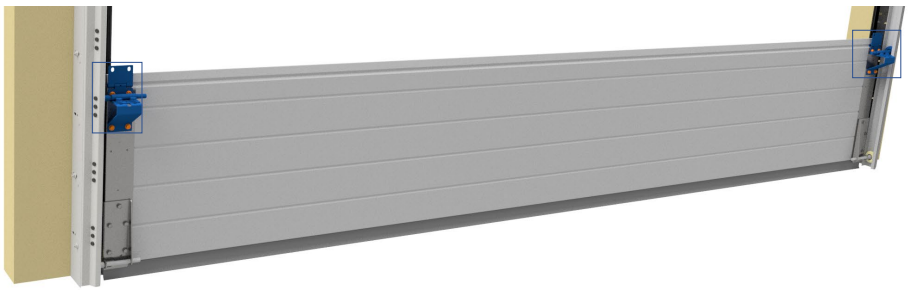
5-4	Demonter trinseholdere	Disassemble hinges	

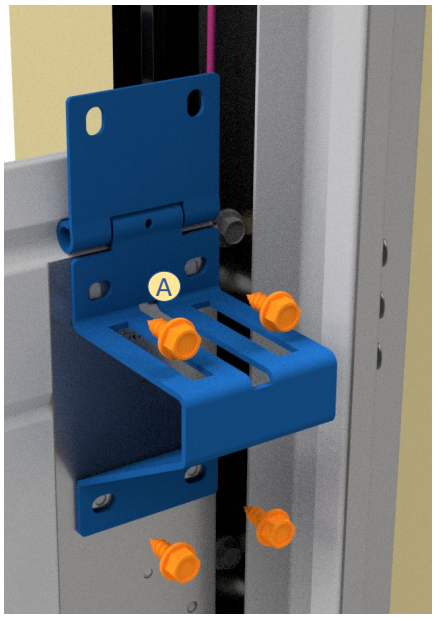


5-5	Fest trinseholder på portpanel	Assemble hinge on door panel	

Repeteres på høyre og venstre side av port for alle seksjoner til og med nest øverste seksjon.

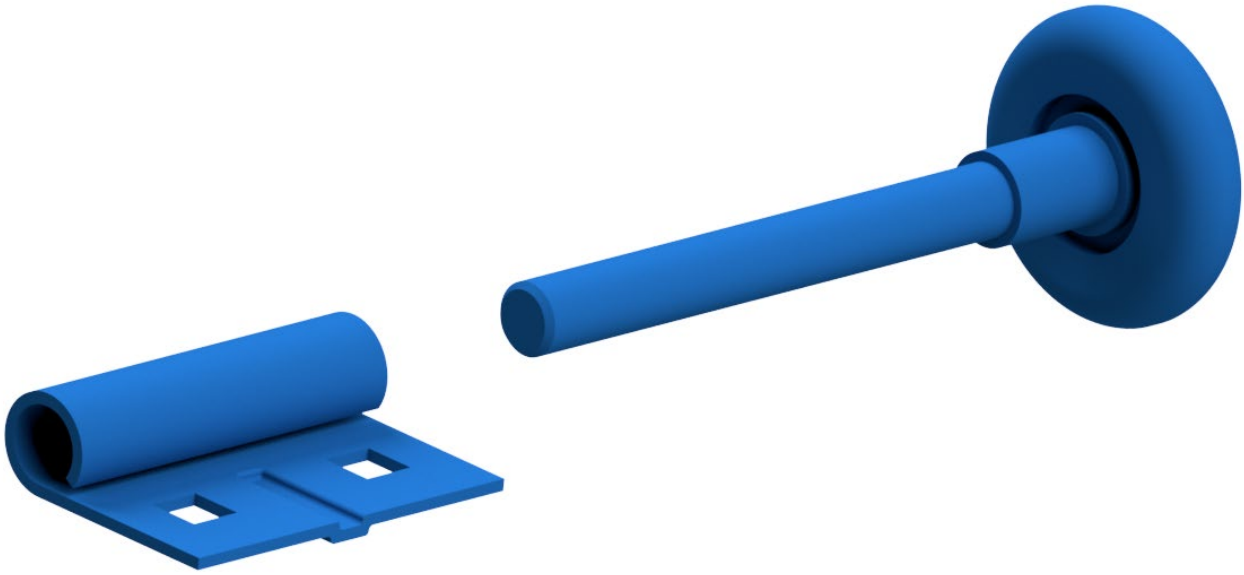
Repeat on left and right side for all sections up, to, and including, the second to last door section.





Pose/Bag:
L-95 / L-96

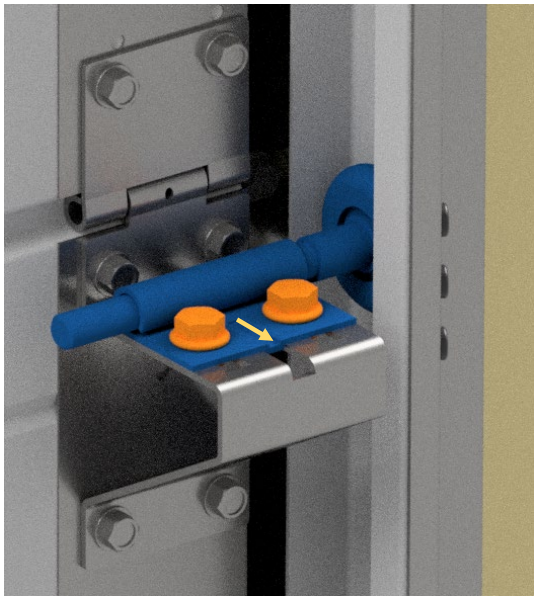
5-6	Sett trinse med bolt i trinseholder	Assemble nylon roller with roller carrier	

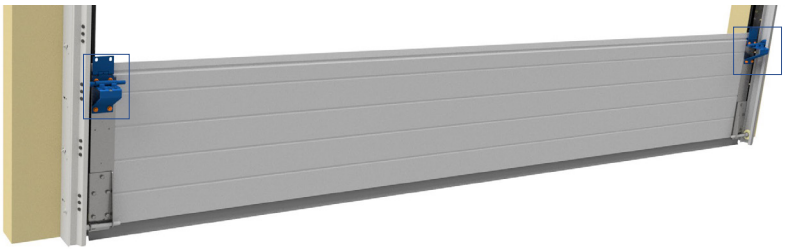


5-7	Monter og juster trinseholder	Assemble and adjust hinges	

Pass på at vaier er på posisjonert mellom port og trinsebolt.

Ensure that the cable is position between panel and hinge bolt.

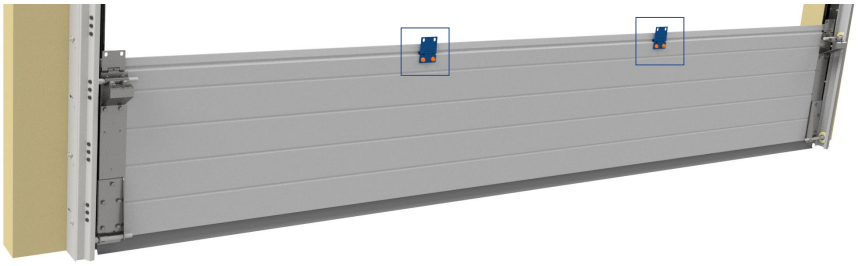


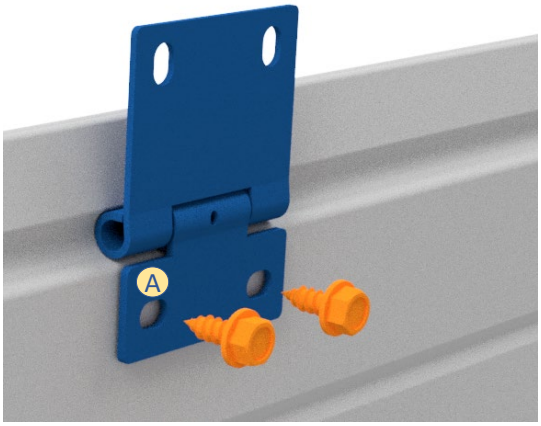


5-8	Montering av hengsler	Assembling hinges	

Repeteres for alle seksjoner til og med nest øverste seksjon.

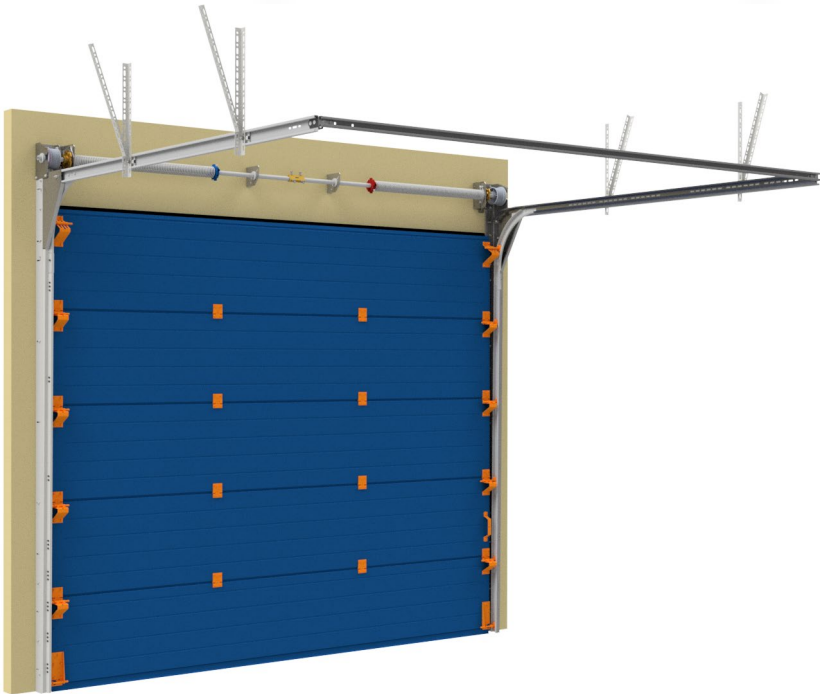
Repeat for all sections up, to, and including, the second to last door section.





Pose/Bag:
L-95 / L-96

5-9	Montering av portelementer	Montering av portelementer	



5-10	Posisjoner og fest det neste portelementet	Position and attach the next door panel	

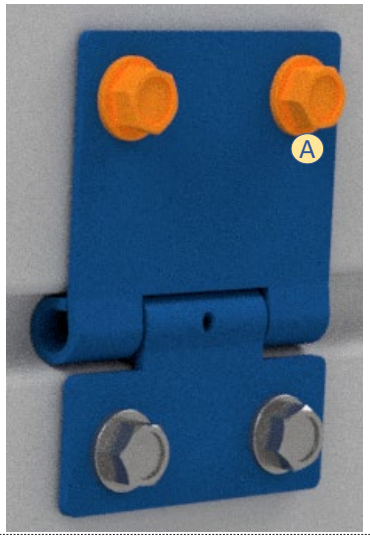
Repeteres for alle seksjoner til og med øverste seksjon.

Repeat for all sections up, to, and including, the top door section.

5-11	Posisjoner og fest det neste portelementet	Position and attach the next door panel	

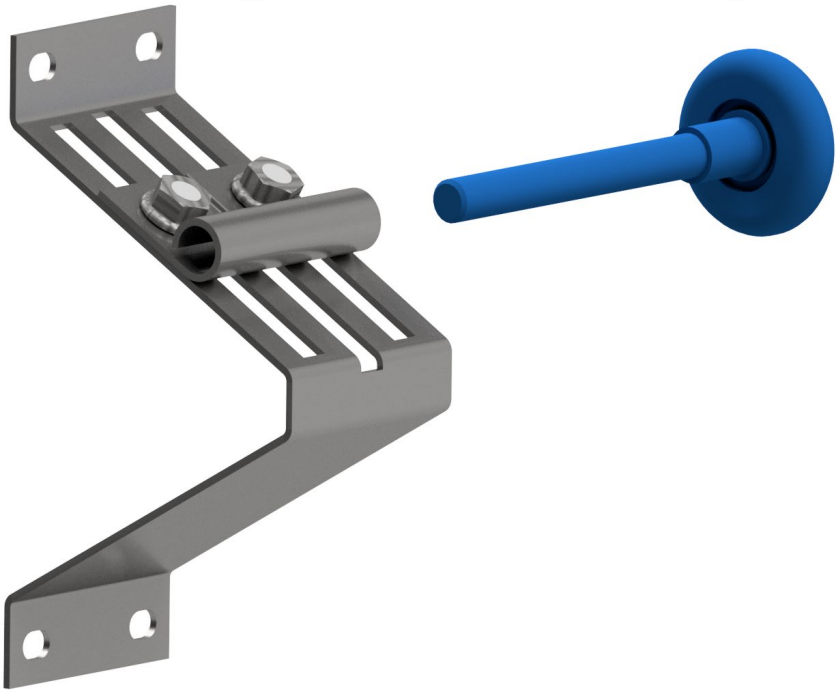
Repeteres for alle seksjoner til og med øverste seksjon.

Repeat for all sections up, to, and including, the top door section.

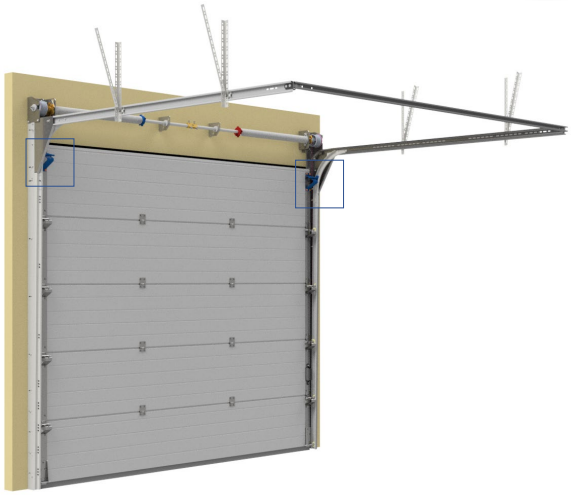


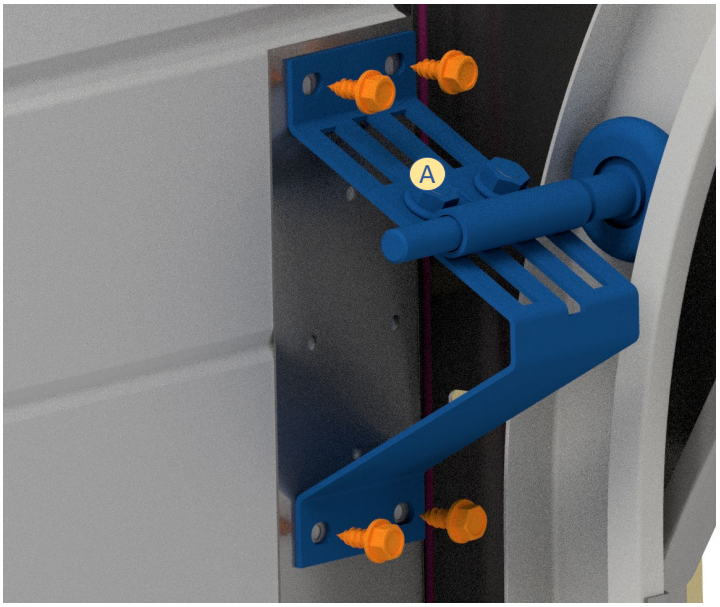
Pose/Bag:
L-95 / L-96

5-12	Sett trinse med bolt i trinseholder	Assemble nylon roller with roller carrier	



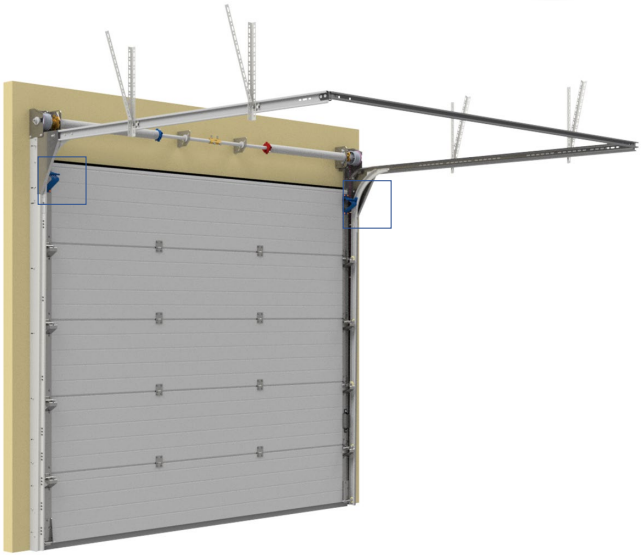
5-13	Montering av toppbrakett på panel	Assemble top bracket on door panel	

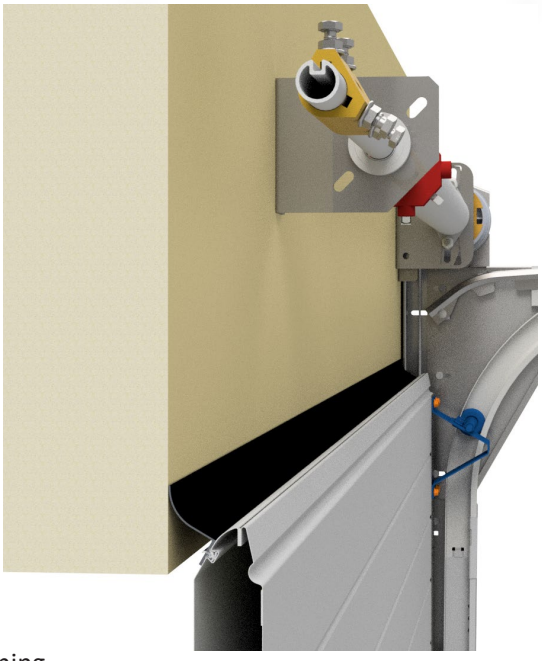




Pose/Bag:
L-95 / L-96

5-14	Juster trinseholder på toppbrakett	Adjust roller carrier on top bracket	

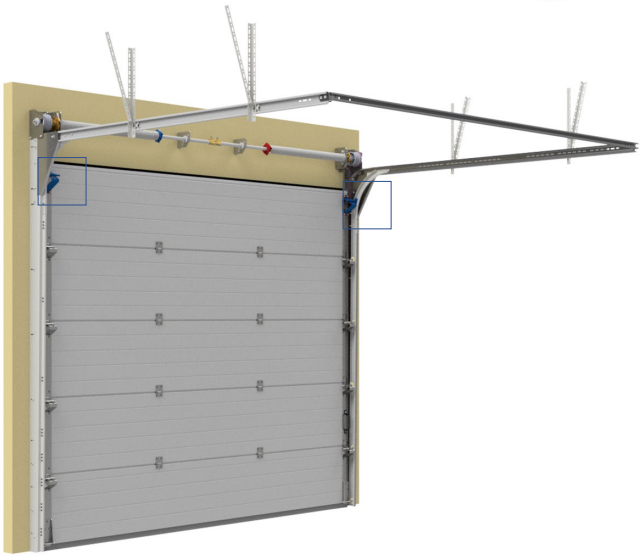


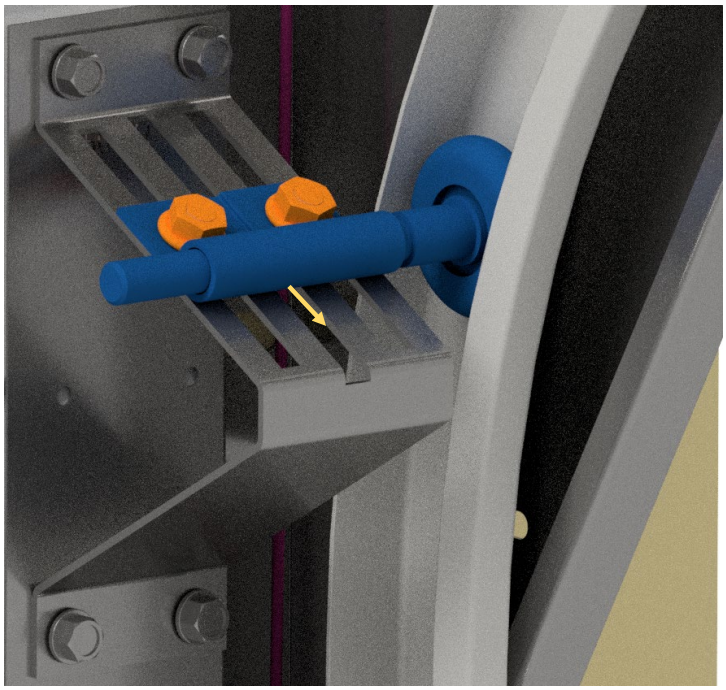


Pakning skal tette mellomrom mellom portåpning og dørpanelet

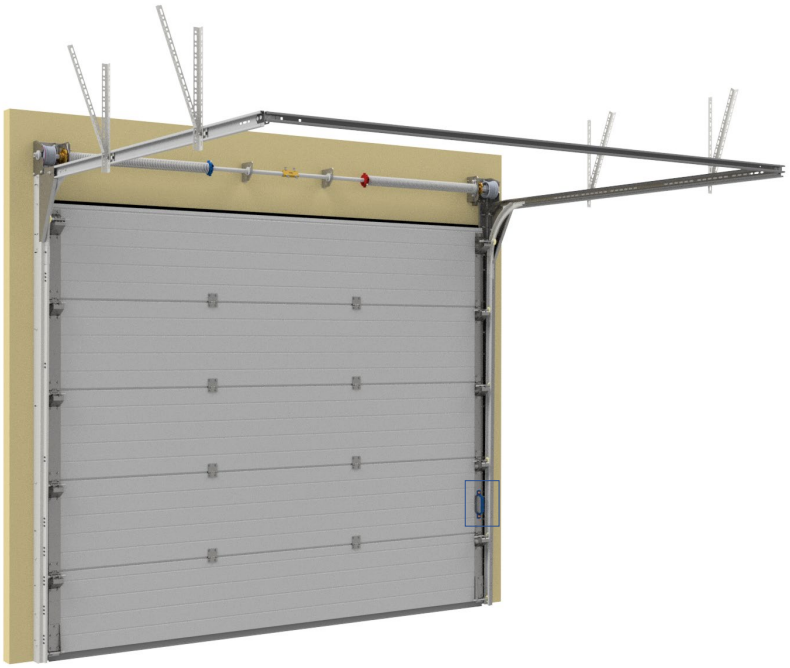
The sealing must seal off the gap between the door panel and the door opening.

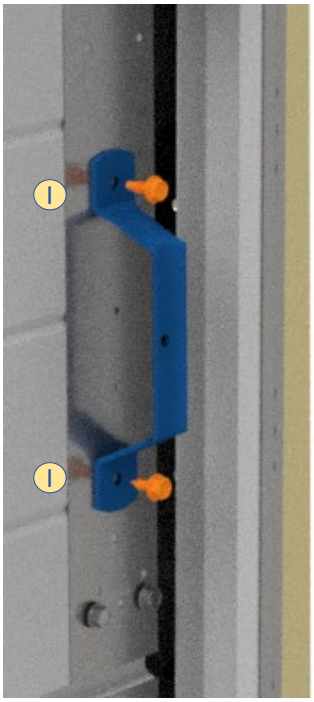
5-15	Juster trinseholder på toppbrakett	Adjust roller carrier on top bracket	





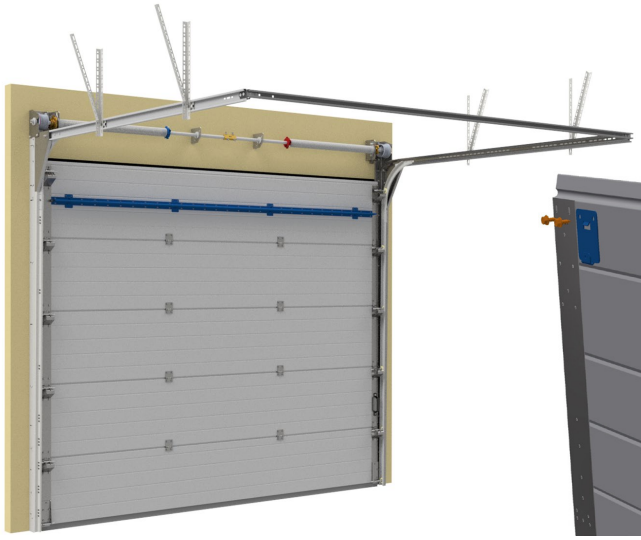
5-16	Montering av bøylegrep	Assembling door handle	





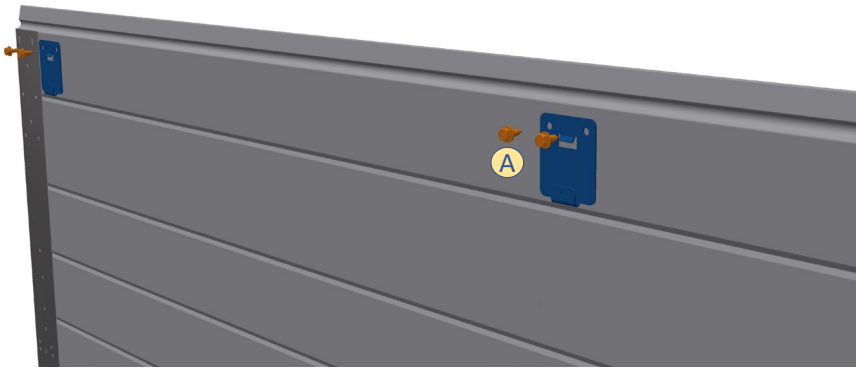
Pose/Bag:
L-83

5-18	Tilleggsutstyr: Montering av portavstiver	Additional equipment: Strut	



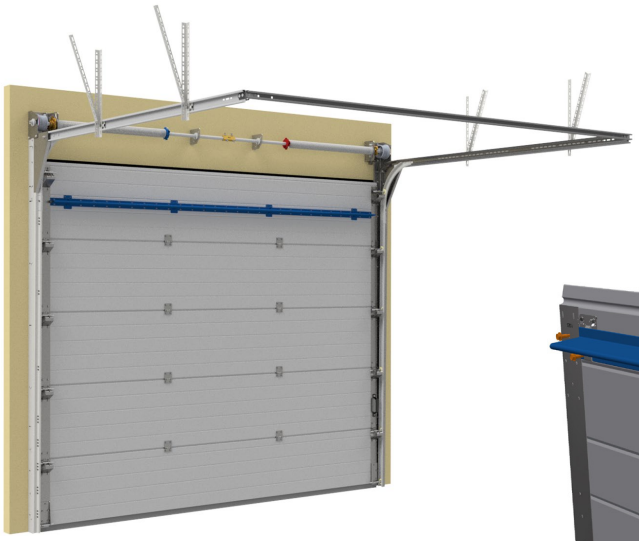
Dersom man har et 460 mm høyt portpanel med en rad vinduer: Se Anneks B

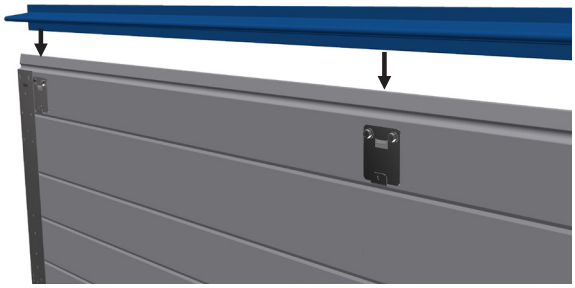
If you have a 460 mm panel with a row of windows: See Annex B

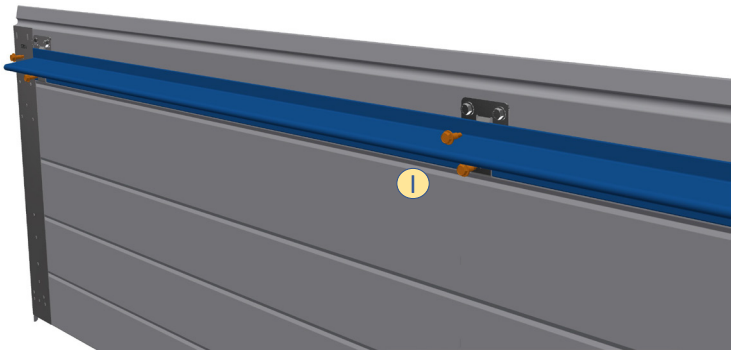


Pose/Bag:
L-99

5-19	Tilleggsutstyr: Montering av portavstiver	Additional equipment: Strut	

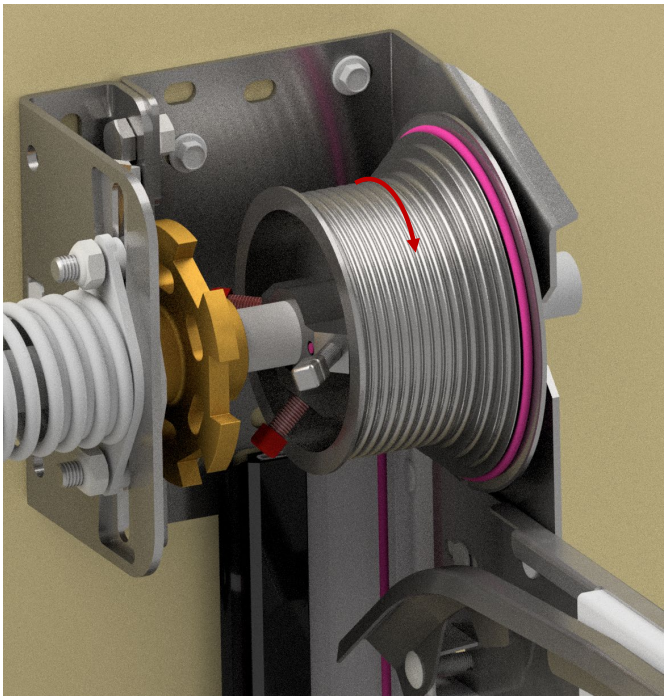






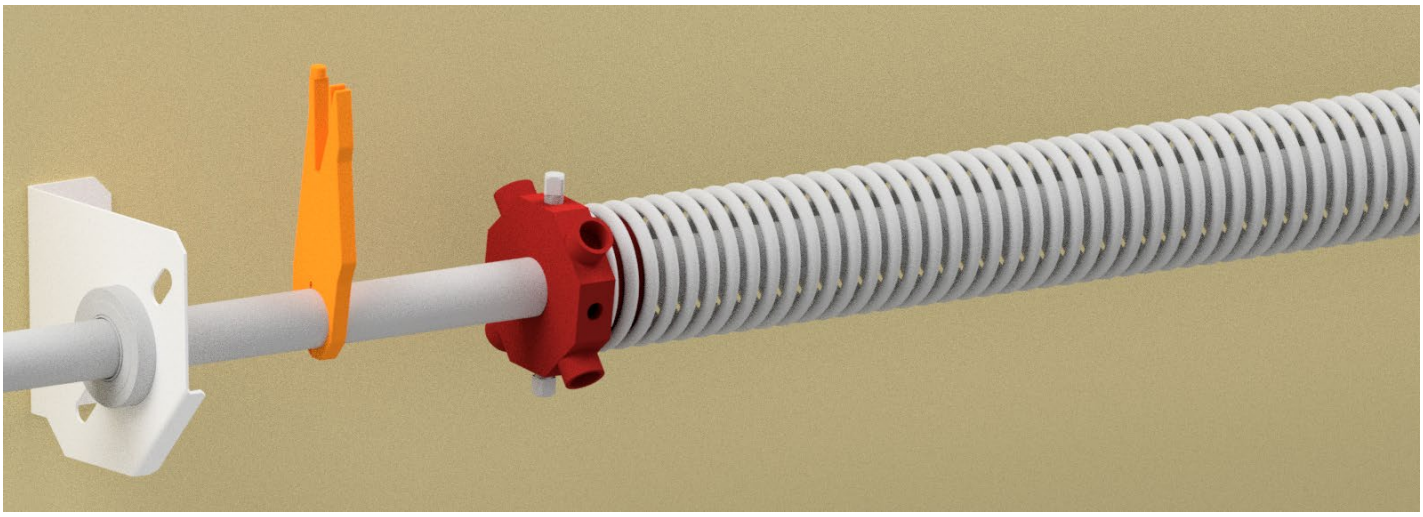
Pose/Bag: L-97

6-1	Stram vaier	Tighten cable	

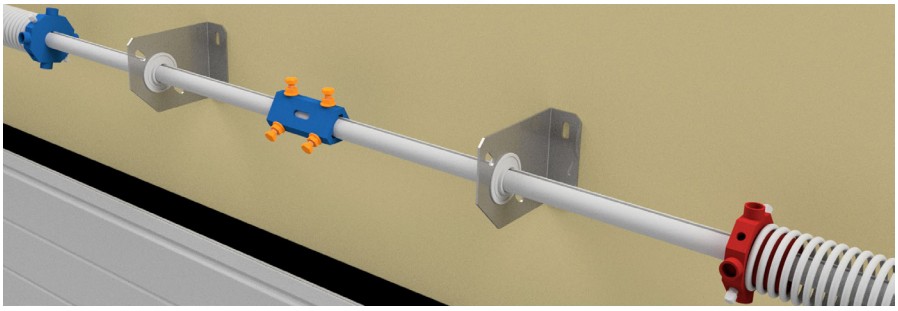


- Vaier strammes likt på høyre og venstre side
- The cable should be equally pre tensioned on both sides of the door

6-2	Lås aksling når du har strammet vaier	Block the shaft when the cable is tightened	

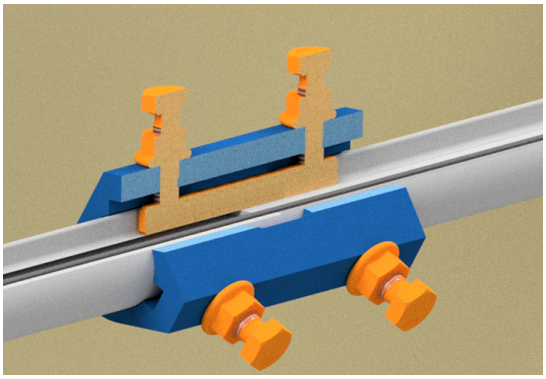


6-3	Kobling av akslinger.	Connecting shafts.	

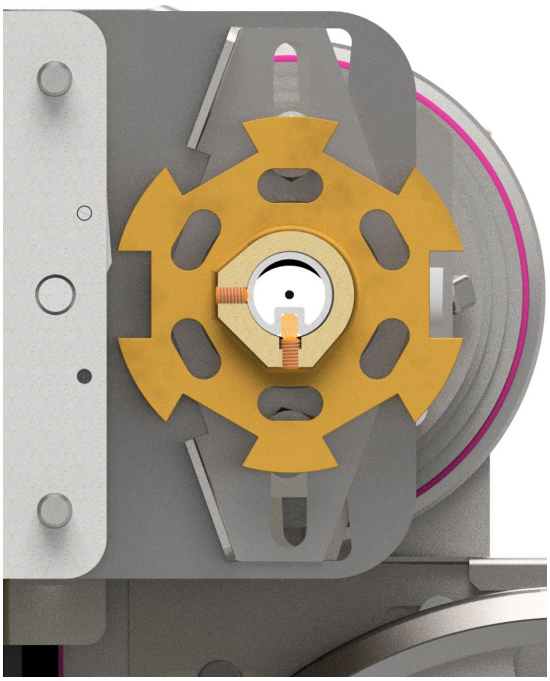


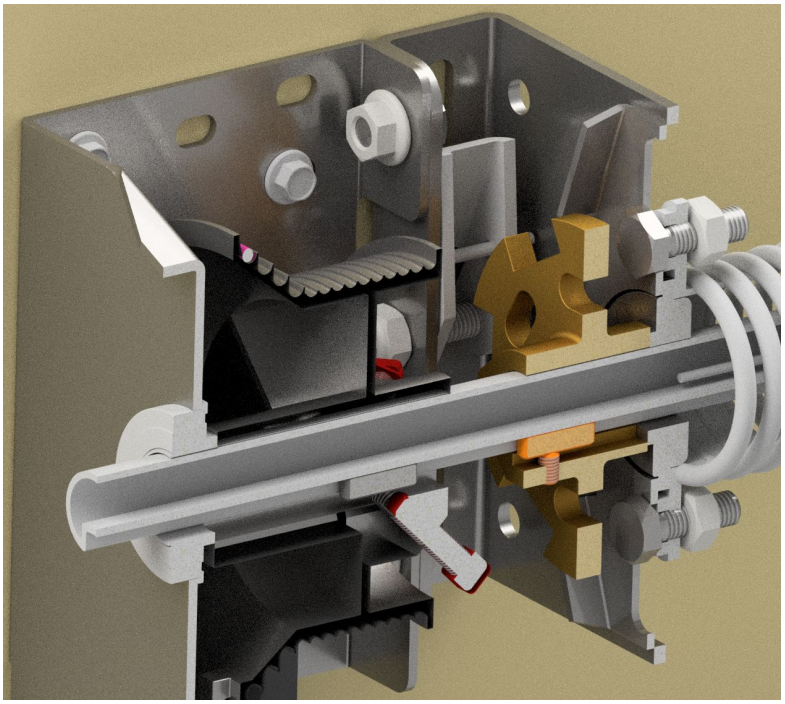
Fest kobling med skruer og kile i hver aksling

Attach the coupler to each shaft with wedges and bolts



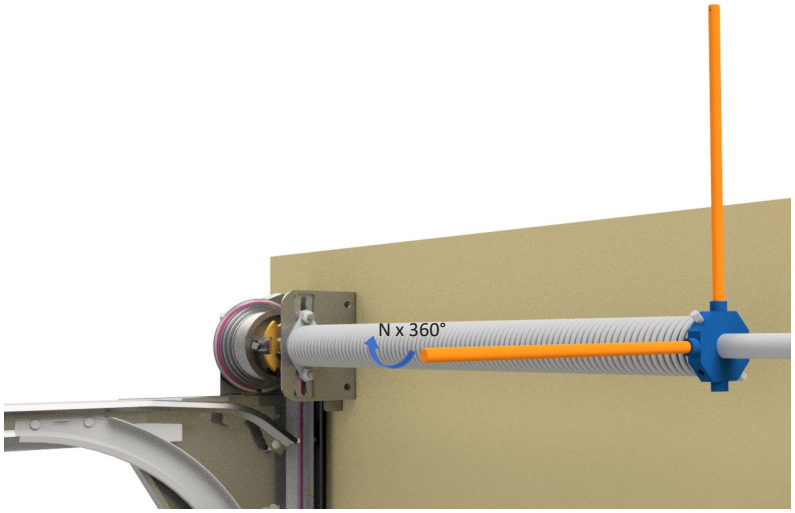
6-4	Fest tannkrans til aksling	Attach gear to shaft	



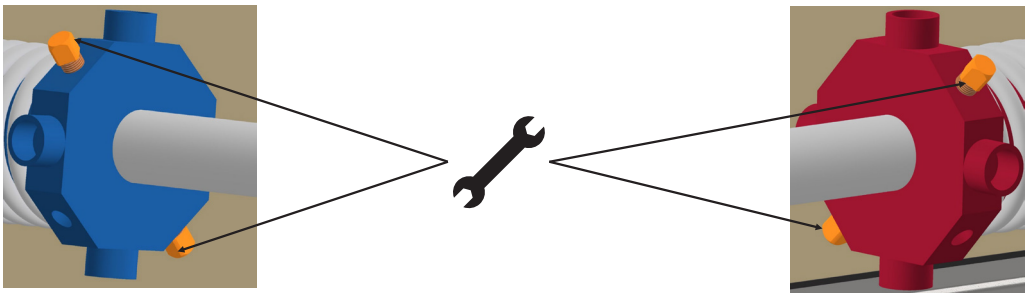


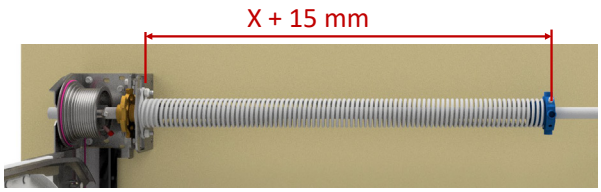
6-5	Stram fjærene - Akslingen må fortsatt være låst.	Rotate springs. The shaft must still be blocked	

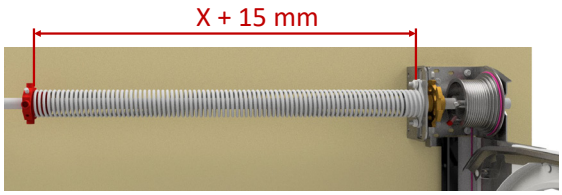
- Antall rotasjoner er detaljert på CE-etikett. Denne er posisjonert på dørpanel nummer 2, fra bunnen.
- The number of rotations is detailed on the CE-sticker that is positioned on the second door panel from the bottom.



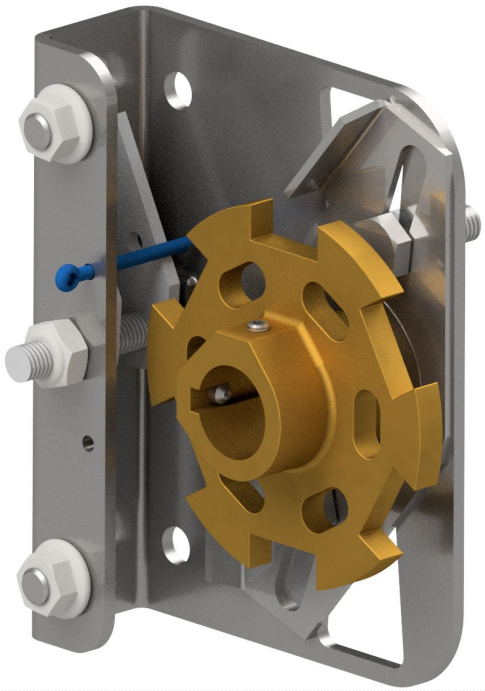
6-6	Strekk fjær	Extend the spring	

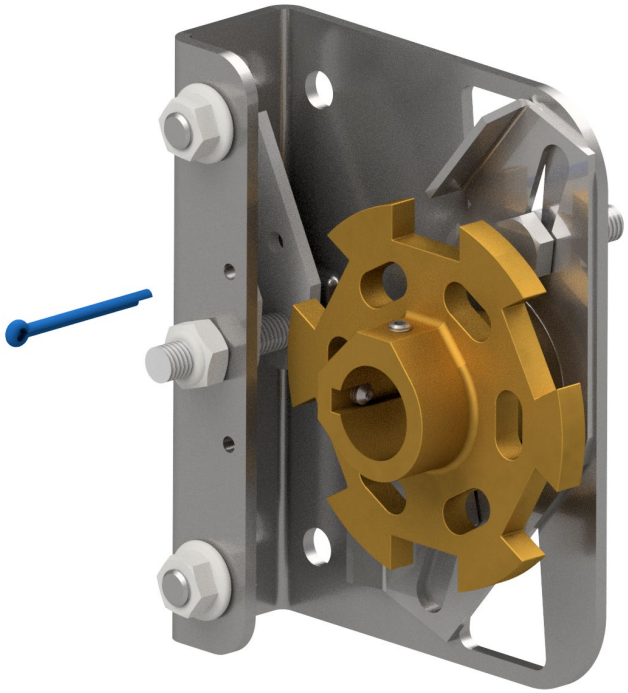




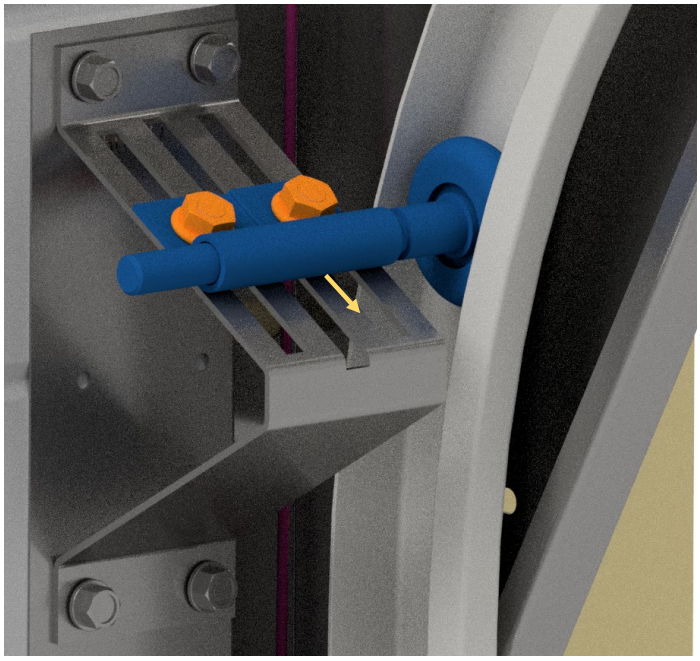


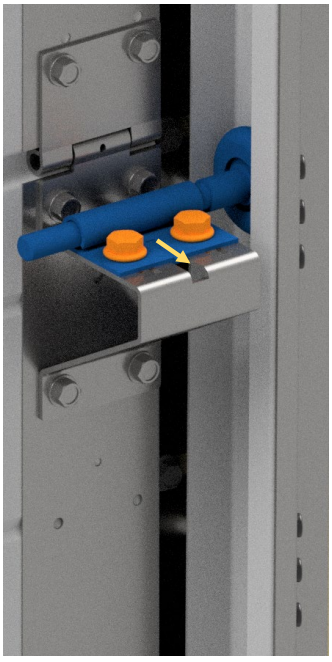
6-7	Aktiver fjærbruddsikringer	Activate spring break devices	



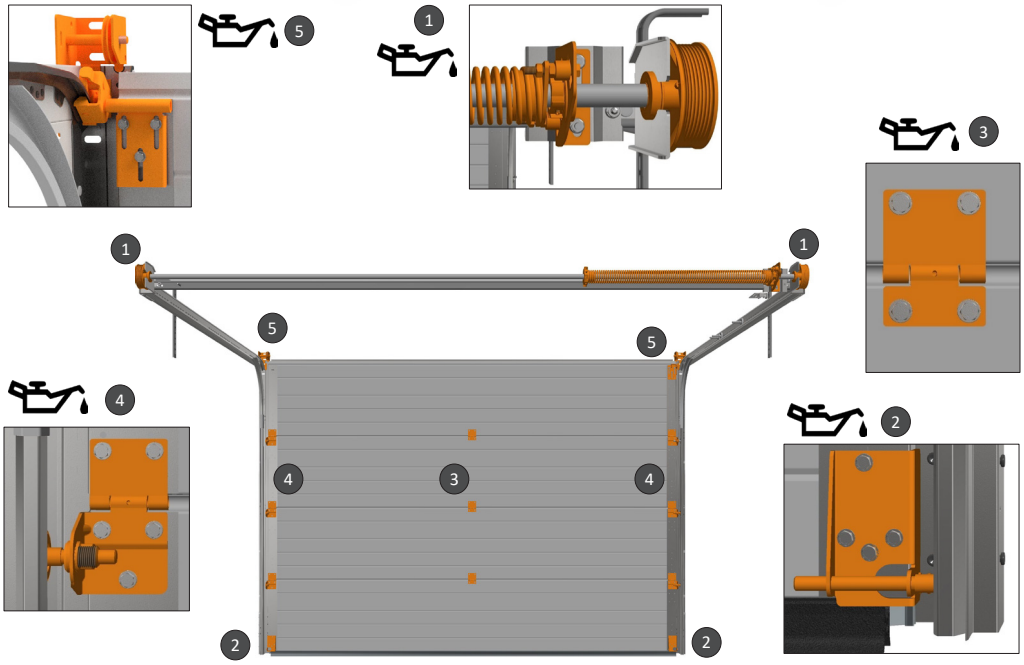


6-8	Etterjuster trinseholder og sidehengsler	Adjust hinges and top bracket	





6-9	Smøring	Lubrication	



8	Problemløsing	Problem solving	
PORTEN GÅR VELDIG TREGT: • Sjekk at lister ikke ligger for hardt mot porten. • Sjekk at skinner ikke er montert for trangt inntil port. • Sjekk at vaier ikke kommer i klem. • Vaier er slakk på den ene siden – sjekk diagonalmål på takskinner. PORTEN ER TUNG Å LØFTE OPP: • Sjekk at fjærer, trinser, og vaier er montert i henhold til anvisning. • Stram opp fjærene. PORTEN FYKER OPP: • Slakk fjæren. KONDENS PÅ INNSIDEN AV PORT: • Sjekk lufting i garasjen.		THE DOOR DIFFICULT TO OPEN/CLOSE: • Verify that seals are not pressing against the door. • Verify that tracks are not assembled to close to the door. • Verify that the lifting cable is not blocked. • If the cable is loose, verify diagonal of horizontal tracks THE DOOR IS TOO HEAVY TO OPEN: • Verify that springs, rollers and cables are correctly assembled as shown in this document. • Tighten springs. THE DOOR OPENING TOO FAST: • Loosen spring. CONDENSATION ON THE INSIDE OF THE DOOR: • Verify that the garage is sufficiently aired.	

9	Installasjon av portåpner	Installing motorised opener	
• Følg egen installasjonsmanual! Lever manualene til sluttbruker etter installasjon • NB! Når elektrisk portåpner monteres på porten, må eventuelle sneppertlåser og låsestag fjernes fra porten for å redusere skaderisiko. • Eventuelle lokale frekvensforstyrrelser kan resultere i at motor ikke virker som tiltenkt. Dette er ingen reklamasjonssak, da det er utenfor leverandørens kontroll. • Det anbefales å montere sikkerhetssystem – fotocelle – for garasjeporter over 2,5 m høyde og hvis lukkekraften er over 40 kg. Videre anbefales det å montere nøkkelbetjent portåpner 1702E eller 5116 dersom det ikke er andre innganger til garasjen enn garasjeporten. Merk at dette er ekstrautstyr. Porten er kun godkjent kombinert med en av de nevnte motorene under, eller uten motor.	• Instructions are found in the motorised openers' installation manual. This manual must be delivered with the opener, or after the installation is complete if a professional is performing the installation • For safety reasons, remove loose parts (tightening rods etc.) before installing the opener. • Local frequency disturbances may have an effect on the performance of the equipment. This is not a valid complain, as the supplier have no control over the potential. local frequency disturbances • It is recommended to install an optical safety device – photocell – for door heights over 2,5m and if the force applied by the door when closing is above an equivalent of 40 kg. it is also recommended to install openers that requires a key (1702E, 5116) if the garage door is the only entry to the garage. • The door is only approved for with one of the following openers, or without an opener	

10	Bruk og vedlikehold	Use and maintenance	
1. Muttere og skruer bør sjekkes minst en gang i året 2. Ved motordrift bør portens balanse sjekkes en gang i året og etterjusteres. 3. Vaier bør kontrolleres og byttes ut ved tegn til oppflising eller slitasje. 4. Lager, trinser, fjærer, bunnbrakett og andre bevegelige deler smøres med universal smøremiddel to til fire ganger i året. Porten bør vaskes/spyles to ganger i året. Vas/spyl porten en gang i måneden dersom du bor ved sjøen. 5. Ved tegn til defekte deler eller annet som gjør at porten ikke fungerer som den skal; kontakt forhandler. 6. Ved aktivisering av fallsikring i forbindelse med fjær- eller vaierbrudd, må også fallsikring og vertikalskinner kontrolleres og eventuelt utskiftes. Det anbefales å la en profesjonell installatør kontrollere porten i slike tilfeller. **NB! Husk alltid å spenne ned fjærene før utskifting av deler.** 7. Ta vare på monteringsanvisningen. 8. Vedlikehold av portåpner: Se egen manual for åpneren.	1. It is recommended to check nuts and bolts at least once a year 2. The balance of motorised doors should be checked and, if necessary, corrected at least once a year.. 3. It is recommended to check the wires and replace them if damage is found. 4. Bearings, rollers, springs, brackets and other movable parts should be lubricated two to four times a year. It is recommended to clean the system twice a year. If you live by the sea: once a month. 5. Contact your supplier/local dealership if you find defects or damage that prevents the correct use of the system. 6. If the wires or springs break and the safety device is activated, rails and safety devices must be examined and, if necessary, replaced. It is recommended to let a professional perform this operation. **NB! Always release the tension in the springs before replacing parts.** 7. Keep this document for instructions and documentation. 8. Maintenance of motorised opener: Check the openers' documentation	

11	Demontering av port	Disassembling the door	
	1. Porten må lukkes før demontering starter 2. Eventuell motor demonteres først. Husk å koble fra strømmen før demontering starter. 3. Torsjonsfjærer spennes ned ved hjelp av stålstenger, på samme måte som ved oppspenning. **NB! En stålstang settes i konen og holdes fast i grep før skruene løsnes. Deretter brukes begge stengene til å gradvis spenne ned fjæren.** 4. Nå kan resterende deler demonteres i motsatt rekkefølge som de ble montert.	1. Close the door before starting. 2. Disassemble the engine system before starting. Always disconnect the system from the power source. 3. Use steel rods to release the tension in the springs. The same procedure as when you assembled the springs. **NB! Place one rod in the cone and hold it tight before releasing any bolts. Use both rods to release the tension gradually.** 4. Disassemble the door system in the opposite order to when you assembled it.	

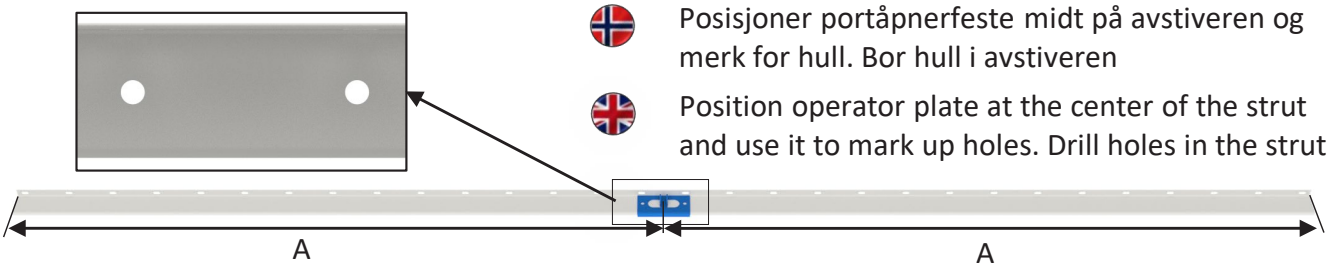
12	Bruk og vedlikehold	Use and maintenance	

Fyll ut feltene etter ferdig installasjon.

Leverandør	Lonevåg Beslagfabrikk AS, N-5282 Lonevåg, Tlf. (+47) 56 19 31 00
Identifikasjonsnummer (Skriv av fra etikett)	
Installatør (Navn, adresse, telefonnr.)	
Dato for installasjon	
Evt. Portåpnertype	
Evt. Sikkerhetsutstyr (Fotoceller, varsellys, etc.)	

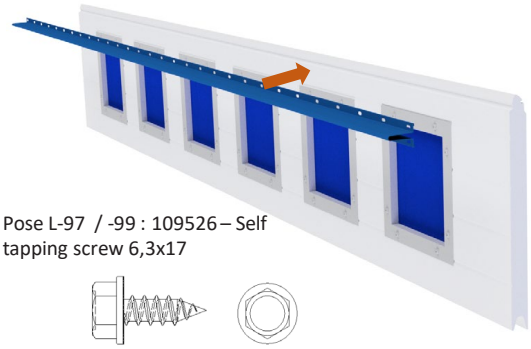
Vedlikehold / Reparasjoner / Oppgraderinger	Navn (utført av)	Dato	Signatur

ANNEKS B: Avstiver – Hvis 460 mm portelement med vinduer	ANNEX B: Strut – If 460 mm door panel with windows	

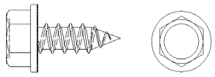


Posisjoner portåpnerfeste midt på avstiveren og merk for hull. Bor hull i avstiveren

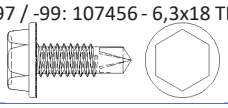
Position operator plate at the center of the strut and use it to mark up holes. Drill holes in the strut

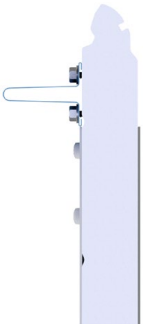


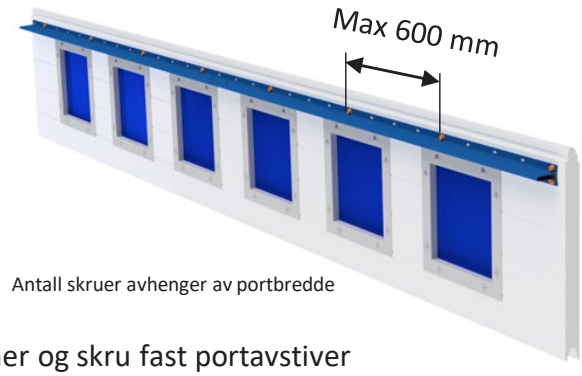
Pose L-97 / -99 : 109526 – Self tapping screw 6,3x17



Pose L-97 / -99: 107456 - 6,3x18 TEK skrue med borspiss







Antall skruer avhenger av portbredde

Posisjoner og skru fast portavstiver

Position and attach strut

Pose L-36: M8x30 seksk.skrue DIN 933 Elzn.

Pose L-36: M8 låsemutter Din985 elzn

Posisjoner og skru fast portåpnerfeste

Position and attach operator plate

Ytelseserklæring

1. Identifikasjonskode: **Leddport for garasjer**
2. Modellbetegnelse: **Eksklusiv Trend, Eksklusiv Modern, Eksklusiv Horisont, Eksklusiv Line, Eksklusiv Kassette**
3. Bruksområde: **Dør for innkjøringsåpning i garasjer**
4. Produsent: **Lonevåg Beslagfabrikk A/S (LOBAS), Flatevad, N-5282 Lonevåg**
5. Autorisert representant**: Ikke relevant**
6. System for vurdering og kontroll av byggevarens konstante ytelse: **System 3**
7. Relevant harmonisert standard: **EN-13241-1:2003+A2:2016**
8. Europeisk Teknisk Vurdering: **Ikke relevant**
9. Angitt ytelse

Vesentlige egenskaper	Ytelse	Harmonisert teknisk spesifikasjon
Regntetthet	Se klasse på etikett	EN 13241:2003+A2:2016
Farlige stoffer	Ingen	
Motstand mot vindlast	Se klasse på etikett	
Varmegjennomgangskoeffisient	U = 1,3 W/m2 x K	
Luftstrømtetthet	Ikke relevant	
Sikker åpning	Tilfredsstillende	
Definisjon av geometri av glasskomponenter	Tilfredsstillende	
Mekaniske egenskaper	Tilfredsstillende	
Driftskrefter	Tilfredsstillende	
Holdbarhet av vanntetthet, varmemotstand og luftgjennomtrengelighet mot nedbrytning	Ikke relevant	

10. Ytelsen for varen som angitt i nr. 1 og 2, er i samsvar med ytelsen angitt i nr. 9.

Denne ytelseserklæringen er utstedt på eget ansvar av produsenten, som angitt i nr. 4.

Undertegnet på vegne av produsenten av:

Lonevåg 14.08.2019	Kenneth Flatås Kenneth Flatås – Teknisk leder

LOBAS®
- et sikkert valg

Lonevåg Beslagfabrikk A/S – N-5282 Lonevåg
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E-MAIL: lobas@lobas.no