

AS-35195 (R5) / AS-35934 (R5+) (Correa dentada)



Quitar la correa izquierda - AS-35195 (R5) / AS-35934 (R5+) (Correa de distribución)

Tiempo estimado de retirada: 30 minutos

Herramientas necesarias:

- Llave hexagonal - 2 mm
- Llave hexagonal - 2,5 mm
- Llave hexagonal - 3 mm
- Llave hexagonal - 4 mm
- Destornillador - ranura de 5 mm

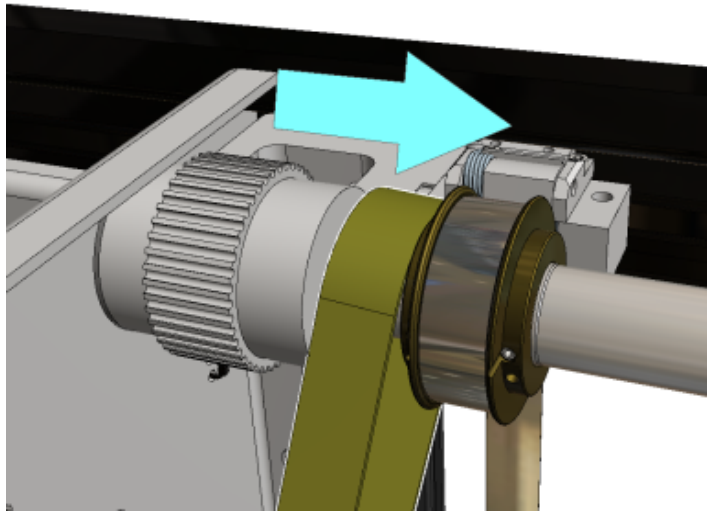
Preparativos:

- Retire AS-35205 (SDG de la parte superior de la hoja) / AS-35646 (DDG de la parte superior de la hoja)[as-35205-sheet-top-sdg---as-35646-sheet-top-ddg-.html#UUID-2653ba5f-4e21-b730-9d1e-f6dd04791b3a_UUID-9a96252c-e093-b3f9-9d3b-4de2dade2faf]
- Retire AS-35021 / AS-35945 (Anverso de la hoja)[as-35021-r5---as-35945-r5---sheet-front-.html#UUID-31b10256-172a-aa77-27f3-70611fd2f729_UUID-e830e1e1-7335-76b1-3edd-915246c7f0c6]
- Retire AS-35011 / AS-35942 (Hoja trasera)[as-35011-r5---as-35942-r5---sheet-rear-.html#UUID-3cfa3d6f-2d13-f6a1-bd8c-29067174afcf_UUID-56eb0901-be2b-17b1-005e-ab3076196808]
- Retire AS-35194 (Pinza del robot)[as-35194-robot-gripper-.html#UUID-615f1cd0-c94d-2caf-556f-d588cec2487d_UUID-d1cefc1d-d8cc-4e4f-887e-a075f10e1282]
- Seguro AS-35149 / AS-35948 (Kit de tiras de robot)[as-35149-r5---as-35948-r5---robot-strip-kit-.html#UUID-99d54947-5192-c85f-aa9b-61979e4e6f58_UUID-dd4cac46-2e97-e8d5-f825-138d2a0bbd29]
- Retire el AS-35210 (Conjunto de baterías)[as-35210-battery-assembly-.html#UUID-d12b6509-2362-50e1-afbd-5d8ba4735988_UUID-852734a8-2963-b764-6ec9-926946f929e2]
- Retire el AS-35200 (piso de la batería)[as-35200-battery-floor-.html#UUID-bf9cabd6-ee31-0bef-ac7b-ab738d9b8c25_UUID-d5ae8863-70b4-5227-0eb8-ed569c4e031d]

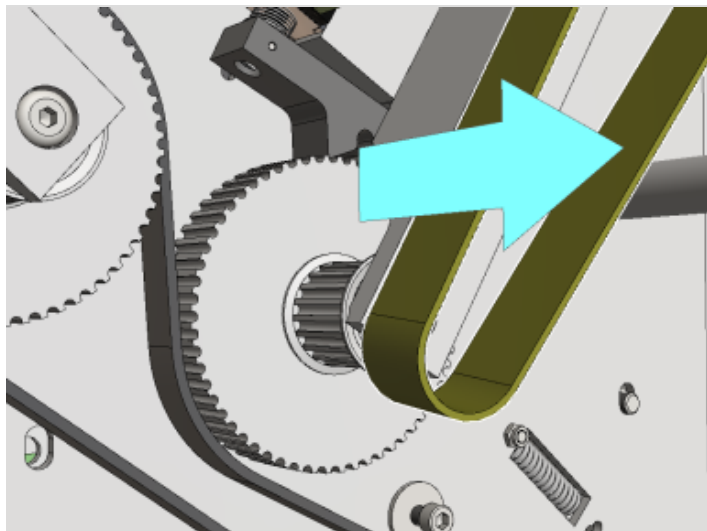
- Aflojar AS-35197 (Correa gemela 670)[as-35197-belt-twin-670-.html#UUID-1ddb98a2-3186-bc5c-3f47-c2a275ed2263_UUID-40ebee84-2a67-6903-4dbd-8f9f0d7fd758]
- Afloje AS-35195 / AS-35934 (Correa de distribución)[as-35195-r5---as-35934-r5---timing-belt-.html#UUID-f740b189-e796-a67e-51e2-1467cd6ede5e_UUID-fbc4941c-fe2b-64b8-5852-fdc445c1477c]

Procedimiento:

1. Deslice la correa de distribución izquierda del engranaje del conjunto del eje de la tira.



2. Retire la correa de distribución izquierda del conjunto del mecanismo de elevación.

**Terminación:**

- Retire AS-35025 (Conjunto de eje de tira)[as-35025-strip-shaft-assembly-sdg-.html#UUID-9507207e-08cd-327b-4673-adba8bfa480_UUID-44187321-5df2-c7f1-be76-0d69490a6639]
- Retire la correa del eje de la tira cuando esté fuera del robot

Retire la correa derecha - AS-35195 (R5) / AS-35934 (R5+) (Correa de distribución)

Tiempo estimado de retirada: 25 minutos

Herramientas necesarias:

- Llave hexagonal - 2 mm
- Llave hexagonal - 2,5 mm
- Llave hexagonal - 3 mm
- Llave hexagonal - 4 mm

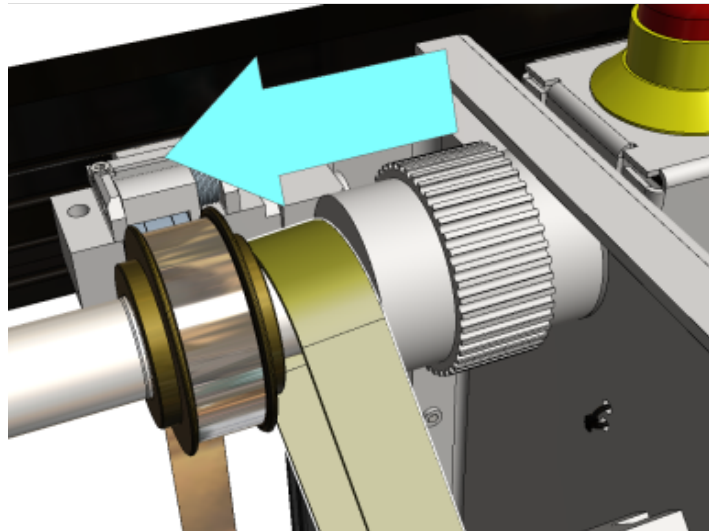
- Destornillador - ranura de 5 mm

Preparativos:

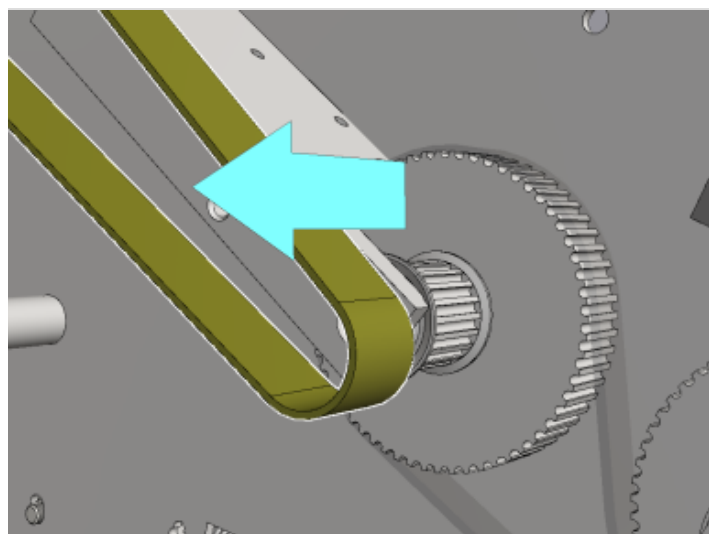
- Retire AS-35205 (SDG de la parte superior de la hoja) / AS-35646 (DDG de la parte superior de la hoja)[as-35205-sheet-top-sdg---as-35646-sheet-top-ddg-.html#UUID-2653ba5f-4e21-b730-9d1e-f6dd04791b3a_UUID-9a96252c-e093-b3f9-9d3b-4de2dade2faf]
- Retire AS-35021 / AS-35945 (Anverso de la hoja)[as-35021--r5---as-35945--r5---sheet-front-.html#UUID-31b10256-172a-aa77-27f3-70611fd2f729_UUID-e830e1e1-7335-76b1-3edd-915246c7f0c6]
- Retire AS-35194 (Pinza del robot)[as-35194--robot-gripper-.html#UUID-615f1cd0-c94d-2caf-556f-d588cec2487d_UUID-d1cefc1d-d8cc-4e4f-887e-a075f10e1282]
- Secure AS-35149 / AS-35948 (Robot strip kit)[as-35149--r5---as-35948--r5---robot-strip-kit-.html]
- Remove AS-35120 (Battery assembly)[as-35210--battery-assembly-.html#UUID-d12b6509-2362-50e1-afbd-5d8ba4735988_UUID-852734a8-2963-b764-6ec9-926946f929e2]
- Loosen AS-35197 (Belt twin 670)[as-35197--belt-twin-670-.html#UUID-1ddb98a2-3186-bc5c-3f47-c2a275ed2263_UUID-40ebee84-2a67-6903-4dbd-8f9fd7fd758]
- Loosen AS-35195 / AS-35934 (Timing Belt)[as-35195--r5---as-35934--r5---timing-belt-.html#UUID-f740b189-e796-a67e-51e2-1467cd6ede5e_UUID-fbc4941c-fe2b-64b8-5852-fdc445c1477c]

Procedure:

1. Slide off the left Timing Belt from gear on the Strip shaft assembly.



2. Remove the left Timing Belt from the Liftgear assembly.

**Completion:**

- Remove AS-35025 (Strip shaft assembly)[as-35025-strip-shaft-assembly-sdg-.html#UUID-9507207e-08cd-327b-4673-adba8bfba480_UUID-44187321-5df2-c7f1-be76-0d69490a6639]
- Take off the belt from the Strip shaft when it is out of Robot.

Install left belt - AS-35195 (R5) / AS-35934 (R5+) (Timing Belt)

Estimated installation time: 30 minutes

Tools needed:

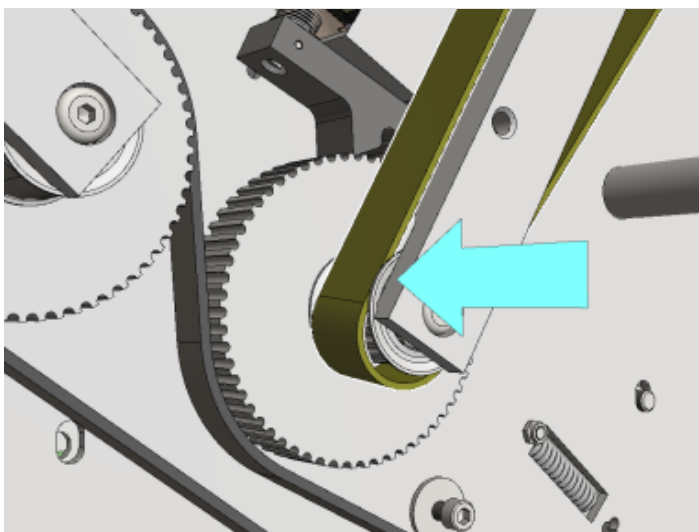
- Hex key - 2 mm
- Hex key - 2.5 mm
- Hex key - 3 mm
- Hex key - 4 mm
- Screwdriver - slot 5 mm

Preparation:

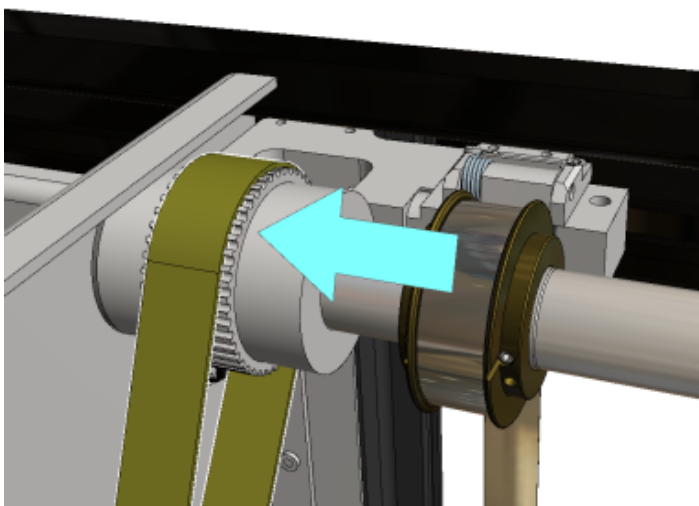
- Make sure AS-35197 (Belt twin 670) is loose. If not, Loosen AS-35197 (Belt twin 670)[[as-35197--belt-twin-670-.html#UUID-1ddb98a2-3186-bc5c-3f47-c2a275ed2263_UUID-40ebee84-2a67-6903-4dbd-8f9fd7fd758](#)]
- Make sure AS-35195 (Timing Belt) tensioner is in upper position. If not, Loosen AS-35195 / AS-35934 (Timing Belt)[[as-35195--r5---as-35934--r5---timing-belt-.html#UUID-f740b189-e796-a67e-51e2-1467cd6ede5e_UUID-fbc4941c-fe2b-64b8-5852-fdc445c1477c](#)] → only left side
- Install AS-35025 (Strip shaft assembly)[[as-35025--strip-shaft-assembly-sdg-.html#UUID-9507207e-08cd-327b-4673-adba8bfa480_UUID-b41ba789-784d-10a7-611e-cfa8dfc53590](#)]

Procedure:

1. Place the Timing Belt on the Liftgear assembly.



2. Place the Timing Belt on the gear.



Completion:

- Tighten AS-35195 / AS-35934 (Timing Belt)[as-35195--r5---as-35934--r5---timing-belt-.html#UUID-f740b189-e796-a67e-51e2-1467cd6ede5e_UUID-fd9cf96c-c35f-59da-3c41-859743ebb51e]
- Tighten AS-35197 (Belt twin 670)[as-35197--belt-twin-670-.html#UUID-1ddb98a2-3186-bc5c-3f47-c2a275ed2263_UUID-2e1dc04f-24a3-32d2-6ea4-2d9de7816264]



Note

Keep this order. This belt must be tensioned after AS-35195 (Timing Belt), NOT before

- Install AS-35200 (Battery floor)[as-35200--battery-floor-.html#UUID-bf9cabd6-ee31-0bef-ac7b-ab738d9b8c25_UUID-e9c1ac70-60bc-7f33-75d1-905621cdfa3e]
- Install AS-35210 (Battery assembly)[as-35210--battery-assembly-.html#UUID-d12b6509-2362-50e1-afbd-5d8ba4735988_UUID-a8e83a06-e4f7-0dd6-a877-ad9518033fc8]
- Install AS-35194 (Robot gripper)[as-35194--robot-gripper-.html#UUID-615f1cd0-c94d-2caf-556f-d588cec2487d_UUID-e6775622-8bb2-1625-05b3-a0f150e05715]
- Adjust AS-35194 (Gripper)[as-35194--robot-gripper-.html#UUID-615f1cd0-c94d-2caf-556f-d588cec2487d_UUID-d2715e29-d943-ad24-47b3-fa071739f17f]
- Install AS-35011 / AS-35942 (Sheet rear)[as-35011--r5---as-35942--r5---sheet-rear-.html#UUID-3cfa3d6f-2d13-f6a1-bd8c-29067174afcf_UUID-770524a6-795b-3ce1-c444-ef2d7880a405]
- Install AS-35021 / AS-35945 (Sheet front)[as-35021--r5---as-35945--r5---sheet-front-.html#UUID-31b10256-172a-aa77-27f3-70611fd2f729_UUID-9b92d4e7-aba2-2c22-3c5d-0a94f0ac7d0a]
- Install AS-35205 (Sheet top SDG) / AS-35646 (Sheet Top DDG)[as-35205--sheet-top-sdg---as-35646--sheet-top-ddg-.html#UUID-2653ba5f-4e21-b730-9d1e-f6dd04791b3a_UUID-67d6d688-0828-2123-11d3-b92cb6ca4d01]

Install right belt - AS-35195 (R5) / AS-35934 (R5+) (Timing Belt)

Estimated time: 25 minutes

Tools needed:

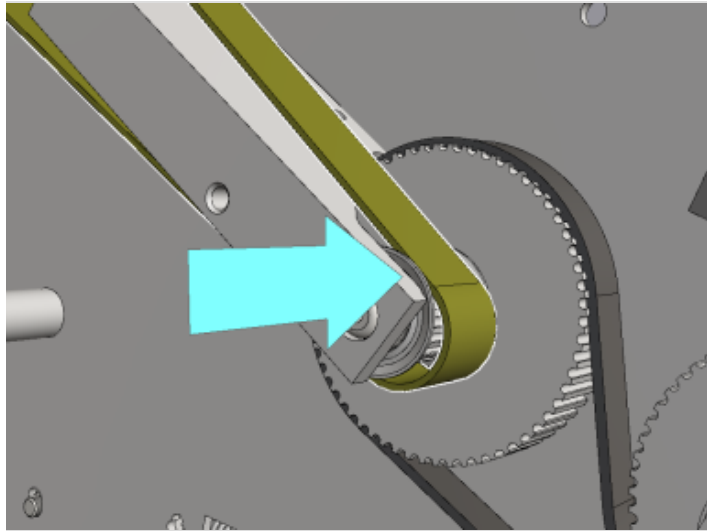
- Hex key - 2 mm
- Hex key - 2.5 mm
- Hex key - 3 mm
- Hex key - 4 mm
- Screwdriver - slot 5 mm

Preparation:

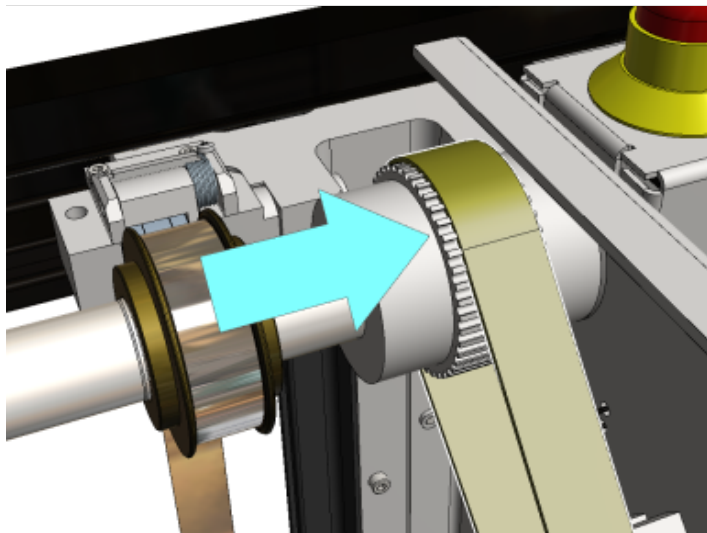
- Make sure AS-35197 (Belt twin 670) is loose. If not Loosen AS-35197 (Belt twin 670)[as-35197--belt-twin-670-.html#UUID-1ddb98a2-3186-bc5c-3f47-c2a275ed2263_UUID-40ebee84-2a67-6903-4dbd-8f9f0d7fd758]
- Make sure right AS-35195 (Timing Belt) tensioner is in upper position. If not Loosen AS-35195 / AS-35934 (Timing Belt)[as-35195--r5---as-35934--r5---timing-belt-.html#UUID-f740b189-e796-a67e-51e2-1467cd6ede5e_UUID-fbc4941c-fe2b-64b8-5852-fdc445c1477c] → only left side
- Install AS-35025 (Strip shaft assembly)[as-35025--strip-shaft-assembly-sdg-.html#UUID-9507207e-08cd-327b-4673-adba8bfa480_UUID-b41ba789-784d-10a7-611e-cfa8dfc53590]

Procedure:

1. Place the right Timing Belt on the Liftgear assembly.



2. Place the right Timing Belt on the gear.



Completion:

- Tighten AS-35195 / AS-35934 (Timing Belt)[as-35195-r5---as-35934-r5---timing-belt-.html#UUID-f740b189-e796-a67e-51e2-1467cd6ede5e_UUID-fd9cf96c-c35f-59da-3c41-859743ebb51e]
- Tighten AS-35197 (Belt twin 670)[as-35197-belt-twin-670-.html#UUID-1ddb98a2-3186-bc5c-3f47-c2a275ed2263_UUID-2e1dc04f-24a3-32d2-6ea4-2d9de7816264]

Note



Keep this order. This belt must be tensioned after AS-35195 (Timing Belt), NOT before!

- Install AS-35210 (Battery assembly)[as-35210-battery-assembly-.html#UUID-d12b6509-2362-50e1-afbd-5d8ba4735988_UUID-a8e83a06-e4f7-0dd6-a877-ad9518033fc8]
- Install AS-35194 (Robot gripper)[as-35194-robot-gripper-.html#UUID-615f1cd0-c94d-2caf-556f-d588cec2487d_UUID-e6775622-8bb2-1625-05b3-a0f150e05715]
- Adjust AS-35194 (Gripper)[as-35194-robot-gripper-.html#UUID-615f1cd0-c94d-2caf-556f-d588cec2487d_UUID-d2715e29-d943-ad24-47b3-fa071739f17f]
- Install AS-35021 / AS-35945 (Sheet front)[as-35021-r5---as-35945-r5---sheet-front-.html#UUID-31b10256-172a-aa77-27f3-70611fd2f729_UUID-9b92d4e7-aba2-2c22-3c5d-0a94f0ac7d0a]
- Install AS-35205 (Sheet top SDG) / AS-35646 (Sheet Top DDG)[as-35205-sheet-top-sdg---as-35646-sheet-top-ddg-.html#UUID-2653ba5f-4e21-b730-9d1e-f6dd04791b3a_UUID-67d6d688-0828-2123-11d3-b92cb6ca4d01]

Loosen AS-35195 (R5) / AS-35934 (R5+) (Timing Belt)

Estimated time: 3 minutes

Tools needed:

- Hex key - 4 mm
- Screwdriver - slot, 5 mm

Preparation:

- Remove AS-35205 (Sheet top SDG) / AS-35646 (Sheet Top DDG)[as-35205-sheet-top-sdg---as-35646-sheet-top-ddg-.html#UUID-2653ba5f-4e21-b730-9d1e-f6dd04791b3a_UUID-9a96252c-e093-b3f9-9d3b-4de2dade2faf]
- Remove AS-35021 / AS-35945 (Sheet front)[as-35021-r5---as-35945-r5---sheet-front-.html#UUID-31b10256-172a-aa77-27f3-70611fd2f29_UUID-e830e1e1-7335-76b1-3edd-915246c7f0c6]
- Remove AS-35011 / AS-35942 (Sheet rear)[as-35011-r5---as-35942-r5---sheet-rear-.html#UUID-3cfa3d6f-2d13-f6a1-bd8c-29067174afcf_UUID-56eb0901-be2b-17b1-005e-ab3076196808]
- Remove AS-35210 (Battery assembly)[as-35210-battery-assembly-.html#UUID-d12b6509-2362-50e1-afbd-5d8ba4735988_UUID-852734a8-2963-b764-6ec9-926946f929e2]
- Remove AS-35200 (Battery floor)[as-35200-battery-floor-.html#UUID-bf9cabd6-ee31-0bef-ac7b-ab738d9b8c25_UUID-d5ae8863-70b4-5227-0eb8-ed569c4e031d]
- Loosen AS-35197 (Belt twin 670)[as-35197-belt-twin-670-.html#UUID-1ddb98a2-3186-bc5c-3f47-c2a275ed2263_UUID-40ebee84-2a67-6903-4dbd-8f9f0d7fd758]

Procedure:



Note

There are two belts GT3 700 on Robot. Each belt has own separate tensioner.



Note

This procedure is the same for both belts.

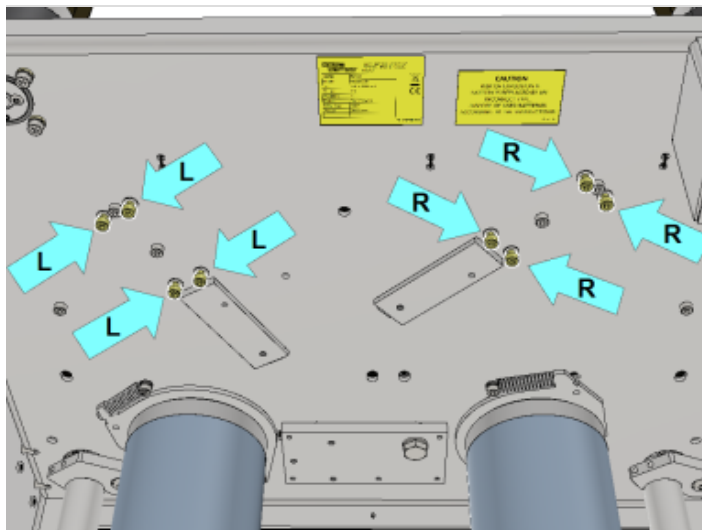


Caution

Remember to loosen AS-35197 (Belt twin 670) as mentioned in Preparation.

1. Loosen four M5x16mm hex socket screws (4mm hex key), only enough to release the tensioner.
2. Do not remove screws.
3. Arrows 'L' - left belt tensioner

Arrows 'R' - right belt tensioner

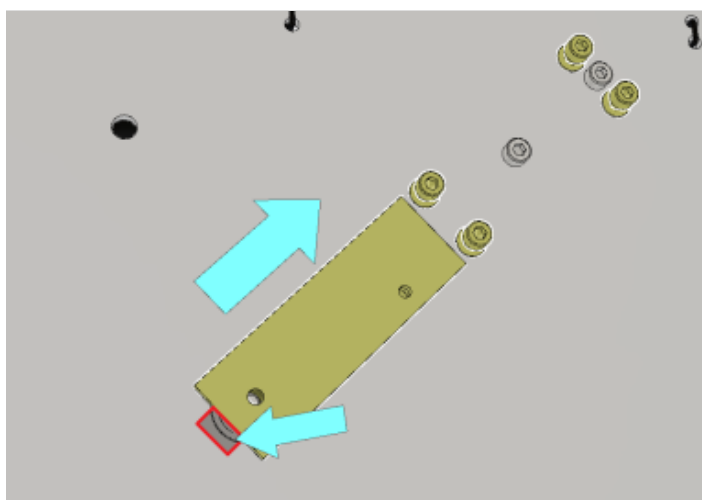


4. Put a 5mm slot screwdriver into the notch, then slide the Lift Gear House (highlighted in picture) to the side.

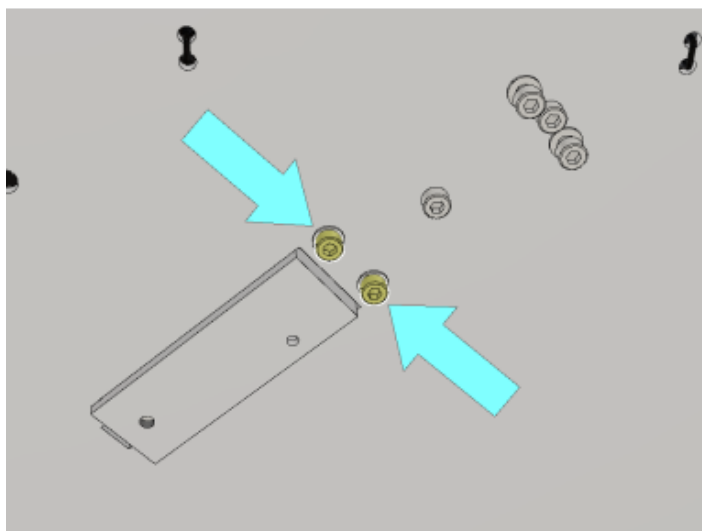


Note

Make sure Lift Gear House has reached the end of its movement range.



1. Still holding the Lift Gear House in position from previous step
2. Tighten at least two M5x16mm hex socket screws (4mm hex key).



Tighten AS-35195 (R5) / AS-35934 (R5+) (Timing Belt)

Estimated installation time: 5 minutes

Tools needed:

- Hex key - 3 mm

- Hex key - 4 mm
- Hz meter

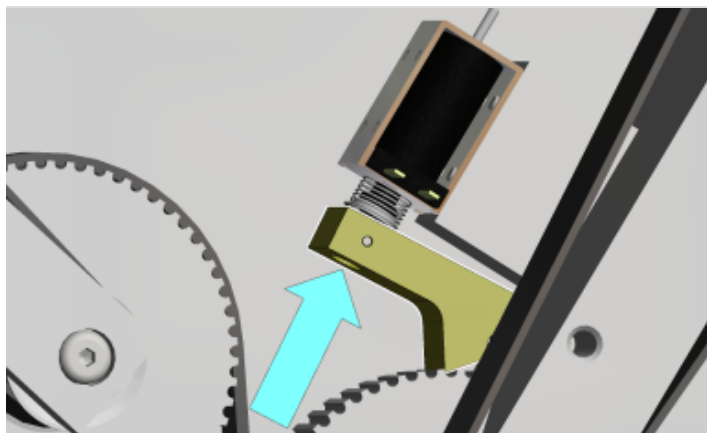
Preparation:

- Remove AS-35205 (Sheet top SDG) / AS-35646 (Sheet Top DDG)[as-35205-sheet-top-sdg---as-35646-sheet-top-ddg-.html#UUID-2653ba5f-4e21-b730-9d1e-f6dd04791b3a_UUID-9a96252c-e093-b3f9-9d3b-4de2dade2faf]
- Remove AS-35021 / AS-35945 (Sheet front)[as-35021-r5---as-35945-r5---sheet-front-.html#UUID-31b10256-172a-aa77-27f3-70611fd2f729_UUID-e830e1e1-7335-76b1-3edd-915246c7f0c6]
- Remove AS-35210 (Battery assembly)[as-35210-battery-assembly-.html#UUID-d12b6509-2362-50e1-afbd-5d8ba4735988_UUID-852734a8-2963-b764-6ec9-926946f929e2]
- Loosen AS-35197 (Belt twin 670)[as-35197-belt-twin-670-.html#UUID-1ddb98a2-3186-bc5c-3f47-c2a275ed2263_UUID-40ebee84-2a67-6903-4dbd-8f9f0d7fd758]
- Set AS-35194 (Gripper) in safe position[as-35194-robot-gripper-.html#UUID-615f1cd0-c94d-2caf-556f-d588cec2487d_UUID-bf94194e-1294-a9fd-fbf5-686e8a0adbd2]

Procedure:**Note**

To get reliable belt tension values
- the Lift mechanism have to be
free to move/revolve.

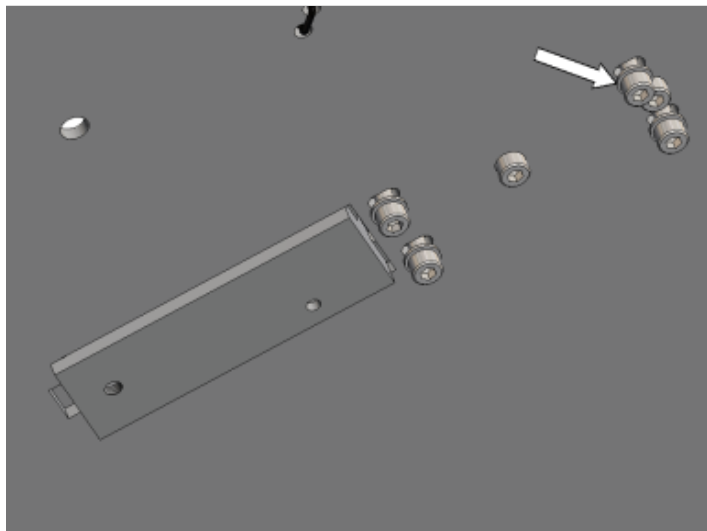
1. Press a hook to release the Lift Brake.
2. Keep a hook in this position when belt tensioning.
3. The easiest way is to use duct tape or an insulation tape. See here for an example.



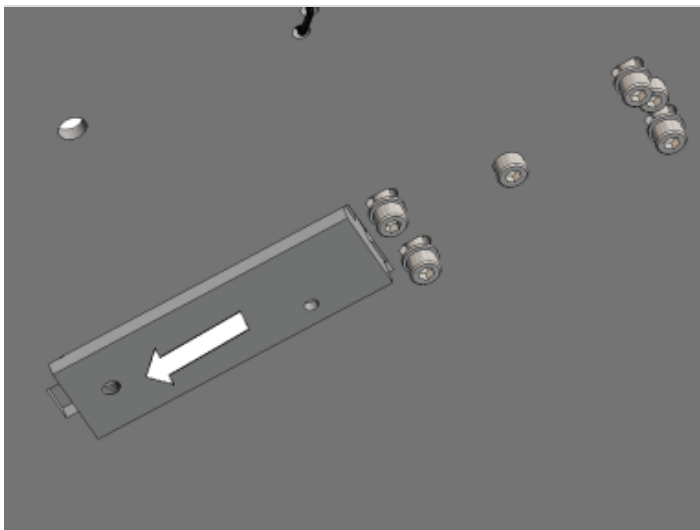
4. Loosen four M5x16mm hex socket screws (4mm hex key) but do not remove them.

**Note**

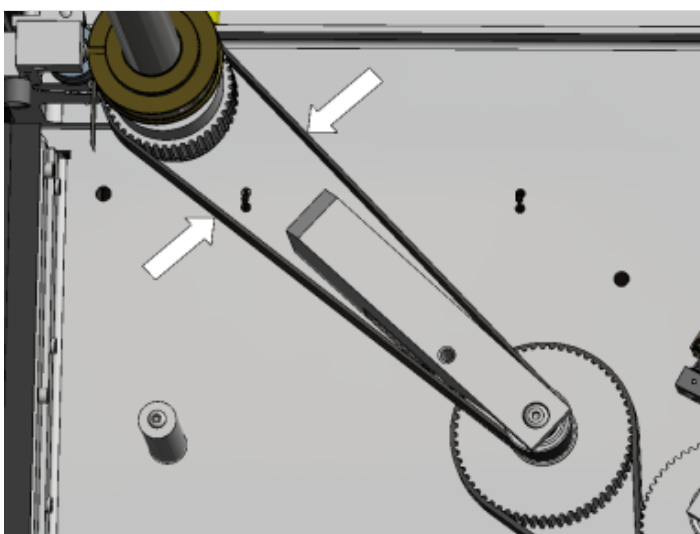
Screws should be loosened only
enough to allow the Lift Gear
House be able to move/slide
(because of spring force).



5. If belt is slack -> the Lift Gear House will slide back in position.



6. If the Lift Gear House won't slide back in position -> try push to push on belt by hand and then release.
7. The Lift Gear House should slide (smoothly) between two limit positions.



1. Tighten two of M5x16mm hex socket screws (4mm hex key).



Note

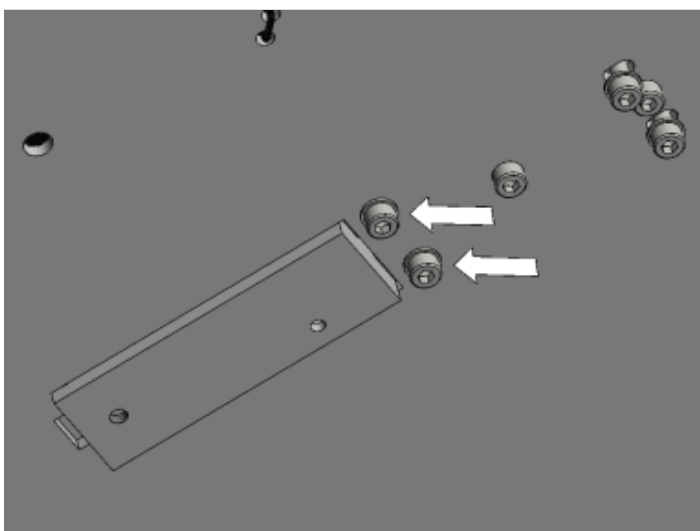
Tighten enough to hold the Lift Gear House in position.
Do not overtighten!

2. Go to Measurement Belt tension, find proper tension value for AS-35197 belt in the table.
3. Measure the belt.



Note

Remember about proper measuring spot on belt.



If tension is too low:

- Adjust the position of the Lift Gear House manually and measure the belt tension again.
- Use long piece of wood or hard plastic (e.g. hammer handle) and a hammer.
- Gently punch in point [1] to move The Lift Gear House in position in the direction of arrow [2].

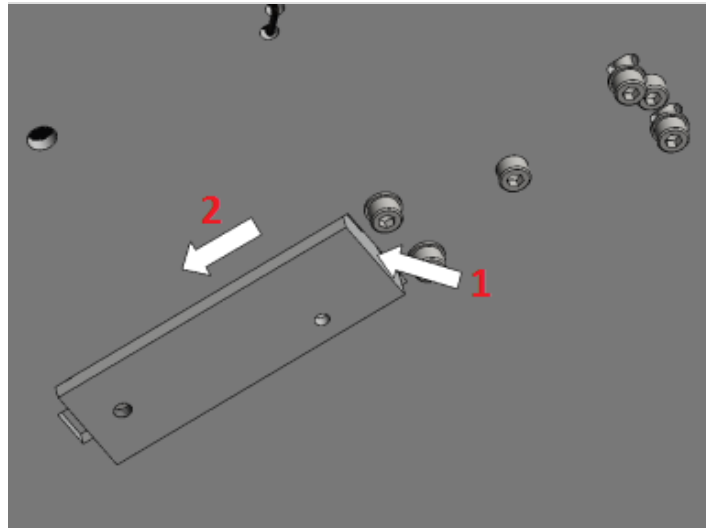
If tension is too high:

- Same as above but in opposite direction.



Note

Make sure two screws (mentioned in previous step) are tighten only a little bit. If they are too tight, adjustment may be not possible.



1. When tension has been adjusted, tighten four M5x16mm hex socket screws (4mm hex key).
2. Measure belt tension again.



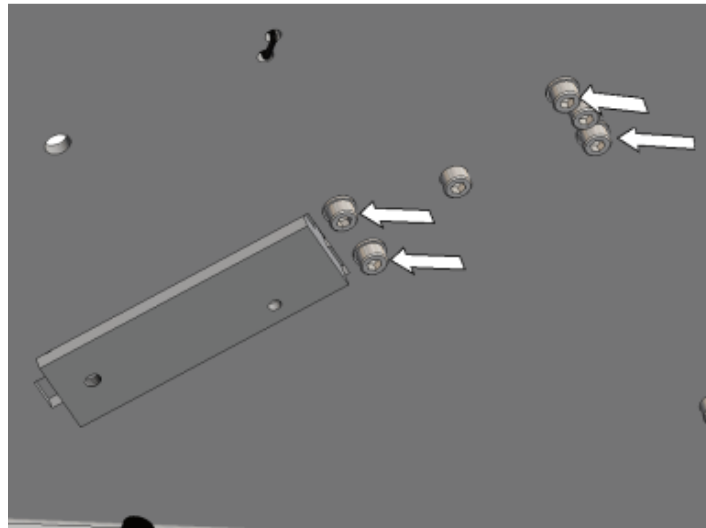
Note

Belt tension value may increase after tightening the screws.



Caution

Make sure belt tension does not exceeded maximum value.



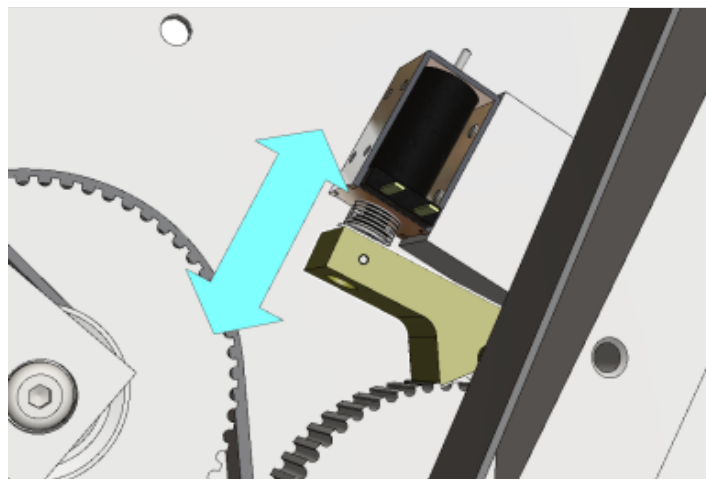
3. Unblock the Lift Brake (mentioned in first step).



Note

Make sure a hook on the Lift Brake is free to move.

4. Pull up the Gripper.



Completion:

- Tighten AS-35197 (Belt twin 670)[as-35197--belt-twin-670-.html#UUID-1ddb98a2-3186-bc5c-3f47-c2a275ed2263_UUID-2e1dc04f-24a3-32d2-6ea4-2d9de7816264]
- Adjust AS-35194 (Robot Gripper)[as-35194--robot-gripper-.html#UUID-615f1cd0-c94d-2caf-556f-d588cec2487d_UUID-d2715e29-d943-ad24-47b3-fa071739f17f]

- Install AS-35021 / AS-35945 (Sheet front)[as-35021--r5---as-35945--r5---sheet-front-.html#UUID-31b10256-172a-aa77-27f3-70611fd2f729_UUID-9b92d4e7-aba2-2c22-3c5d-0a94f0ac7d0a]
- Install AS-35210 (Battery assembly)[as-35210--battery-assembly-.html#UUID-d12b6509-2362-50e1-afbd-5d8ba4735988_UUID-a8e83a06-e4f7-0dd6-a877-ad9518033fc8]
- Install AS-35205 (Sheet top SDG) / AS-35646 (Sheet Top DDG)[as-35205--sheet-top-sdg---as-35646--sheet-top-ddg-.html#UUID-2653ba5f-4e21-b730-9d1e-f6dd04791b3a_UUID-67d6d688-0828-2123-11d3-b92cb6ca4d01]

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