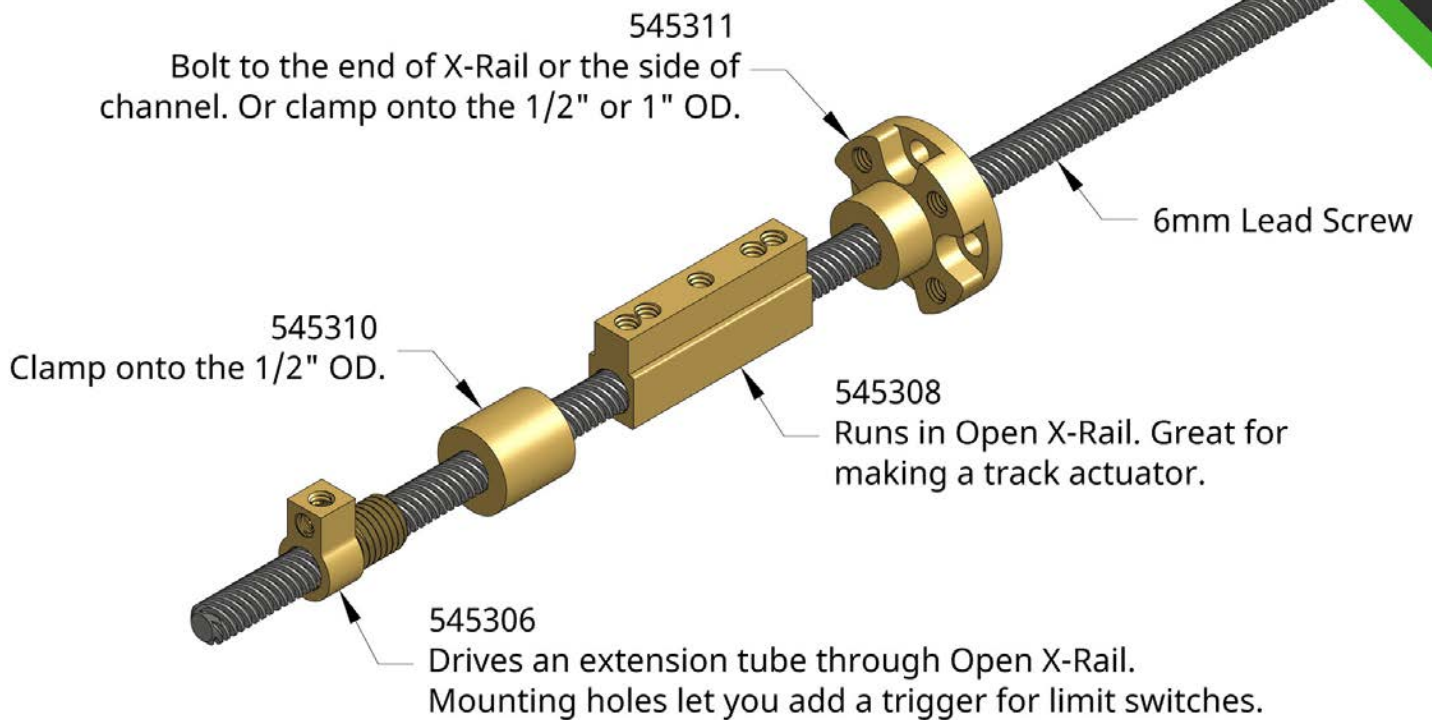


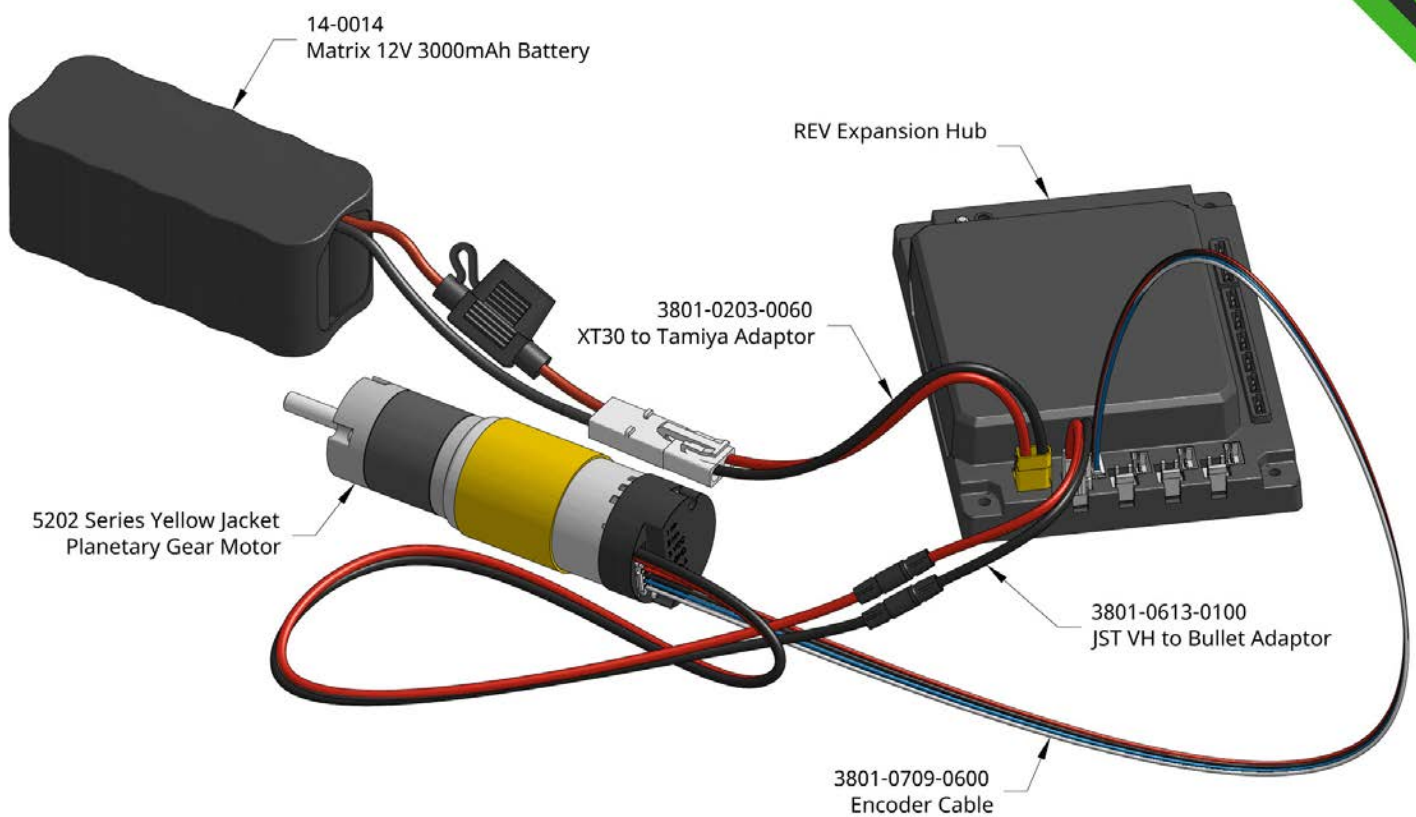
3.5mm Bullet Connector Product Insight #1

Our 3.5mm Bullet Connectors provide a compact, high quality connection. The fact that one connector is used per wire makes it easy to swap polarity as needed. They easily fit through the 1/2" hole found on many Actobotics components.



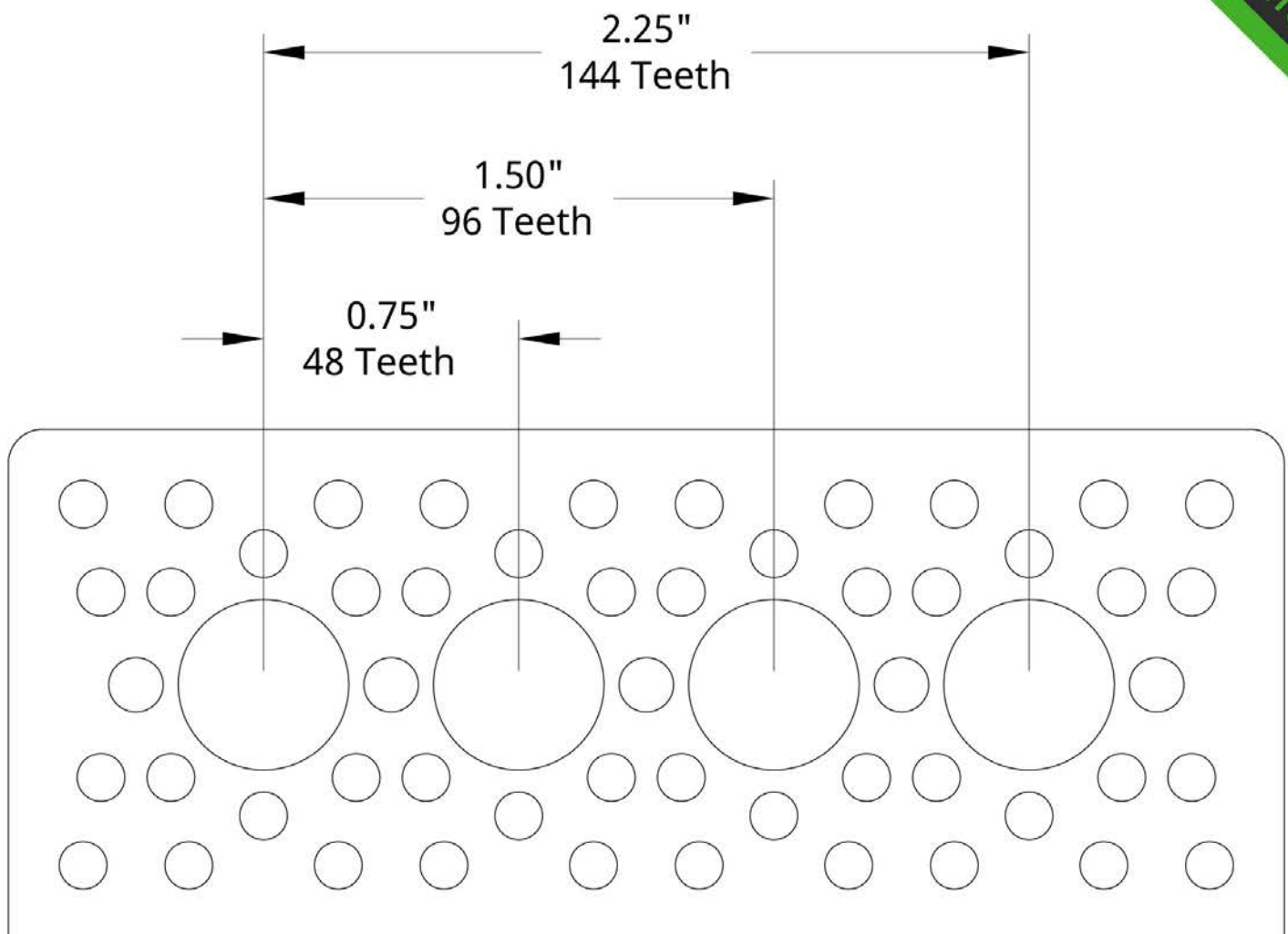
6mm Lead Screws Product Insight #1

There are a variety of Actobotics lead screw nuts for 6mm lead screws. This lets you select the one that best matches your use-case.



14-0014 Product Insight #1

The FTC-legal 12V Matrix Battery (14-0014) can easily be plugged into the commonly used REV Expansion Hub with the help of an XT30 to Tamiya Adaptor (3801-0203-0060).



32 Pitch Gears Product Insight #1

For any two 32 pitch gears to mesh properly on Actobotics Channel (given the 3/4" spacing of the 1/2" holes) the sum of teeth must be a multiple of 48. Just add the teeth of two gears and **divide by 48**. If you get a whole number, they will mesh on Actobotics channel.

Example A:

$$32T + 64T = 96 \text{ Teeth}$$

$$96 / 48 = 2$$

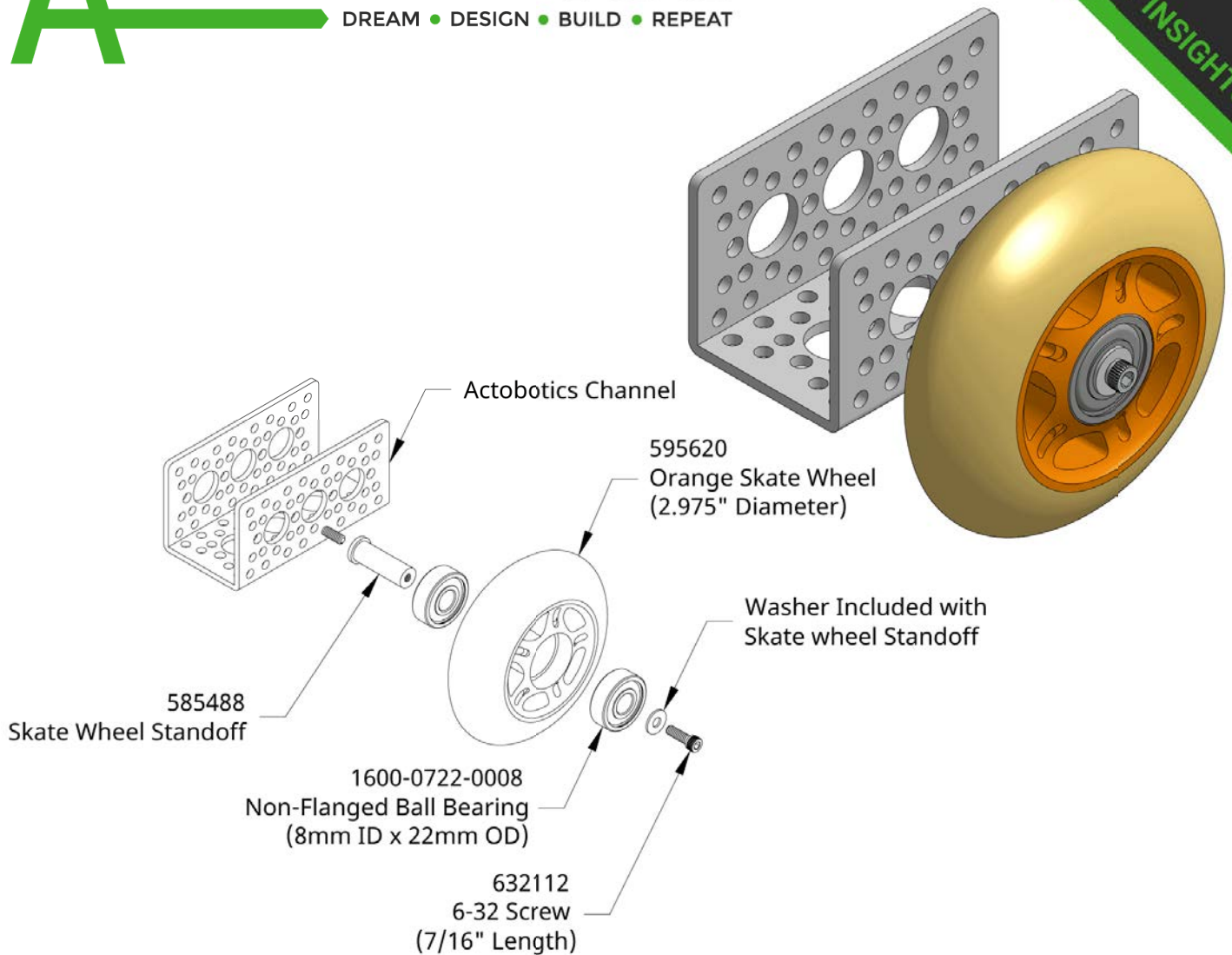
They will mesh on channel.

Example B:

$$32T + 48T = 80 \text{ Teeth}$$

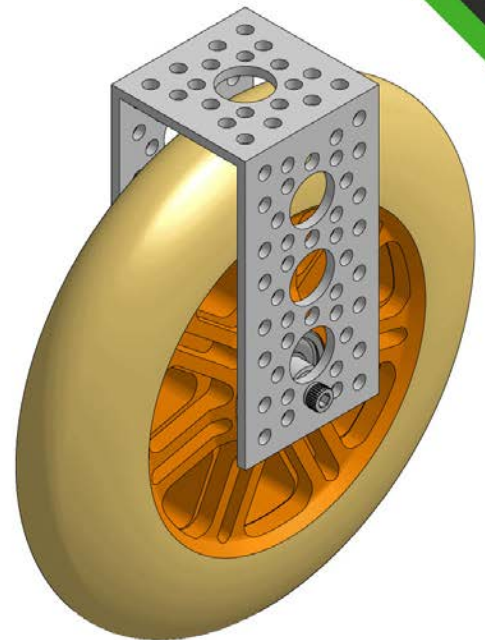
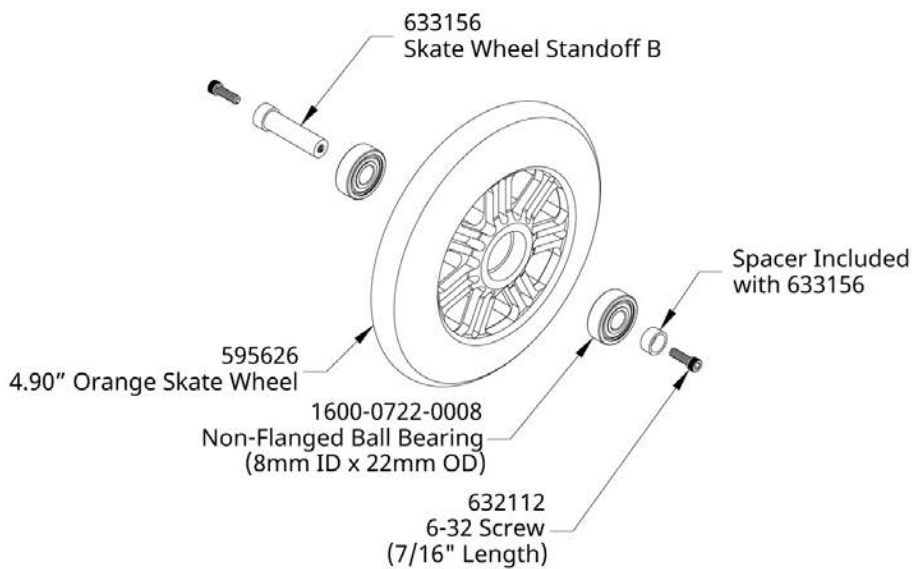
$$80 / 48 = 1.67$$

They will NOT mesh on channel.



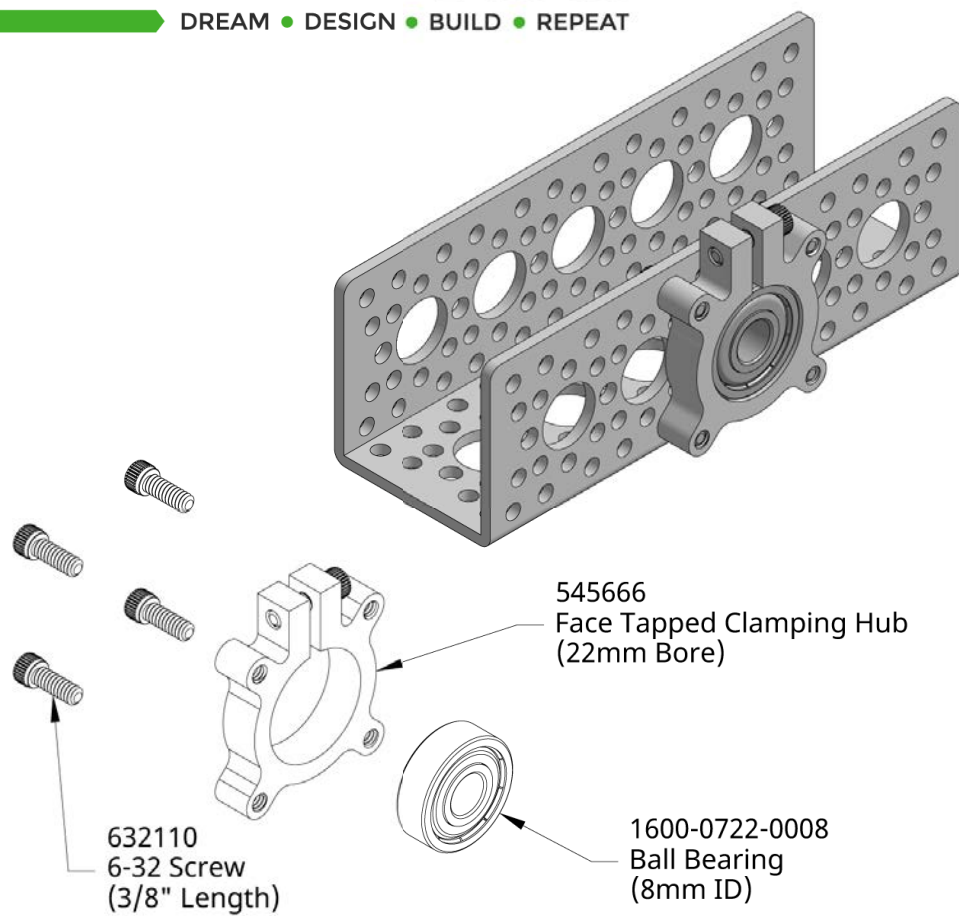
1600-0722-0008 Product Insight #1

Two bearings can be dropped in to a skate wheel giving super smooth ball bearing based motion to Actobotics channel.



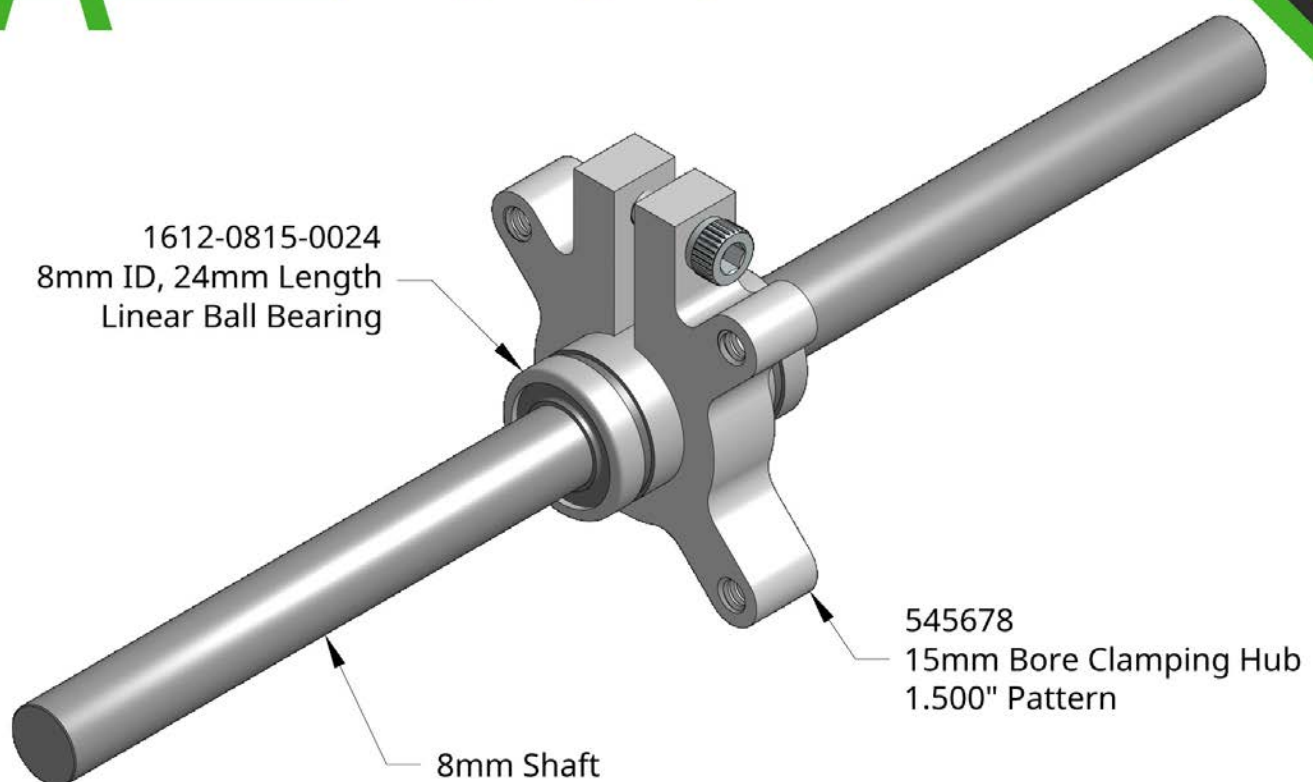
1600-0722-0008 Product Insight #2

With the use of the 585484 Pattern Bracket, a fork system can be set up by installing a skate wheel in the center of the Pattern Bracket.



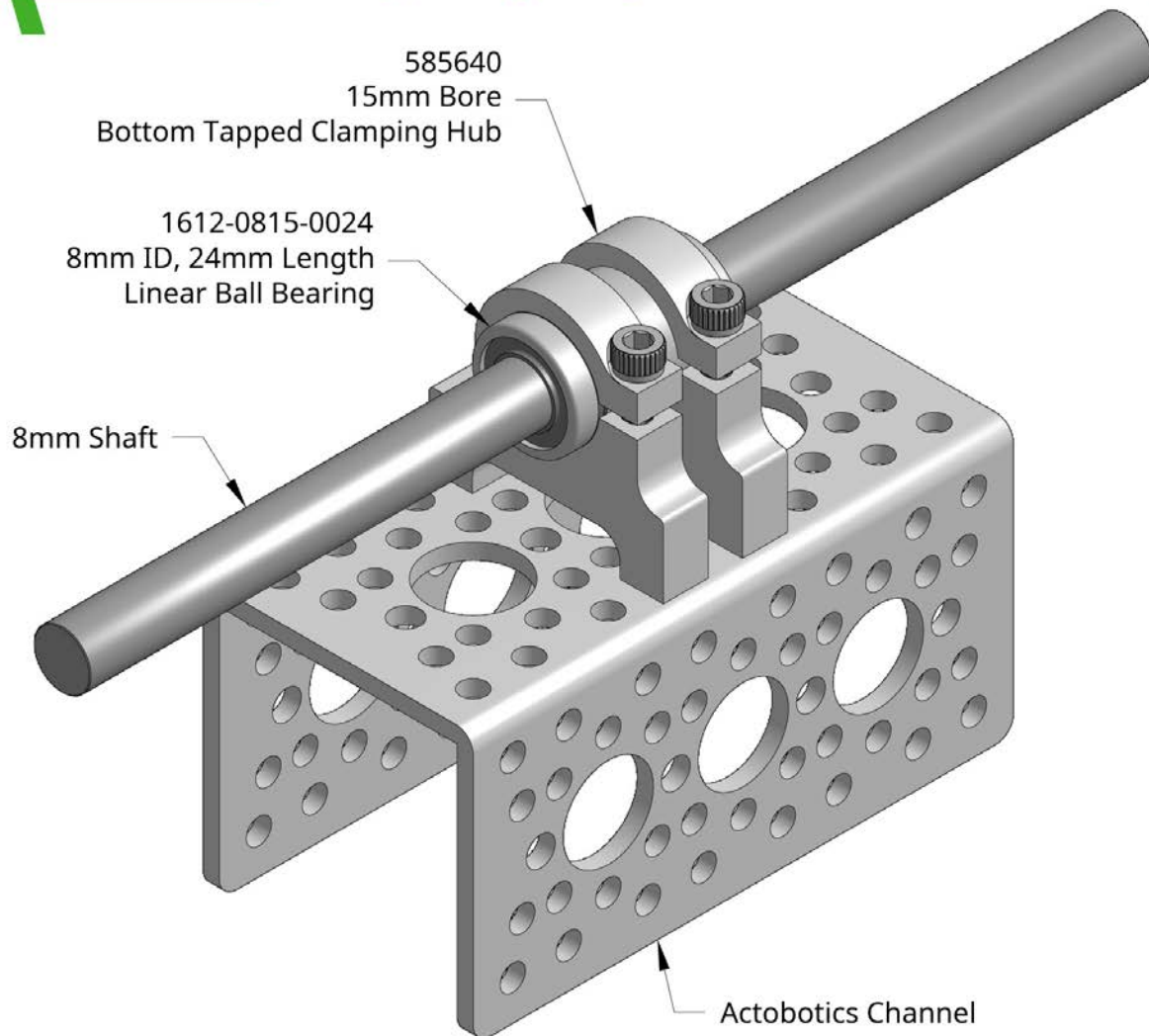
1600-0722-0008 Product Insight #3

The bearing can be clamped in the 545666 and then mounted to Actobotics channel over a 1/2" hole. This allows for 8mm shafting to be supported when being ran through Actobotics Channel.



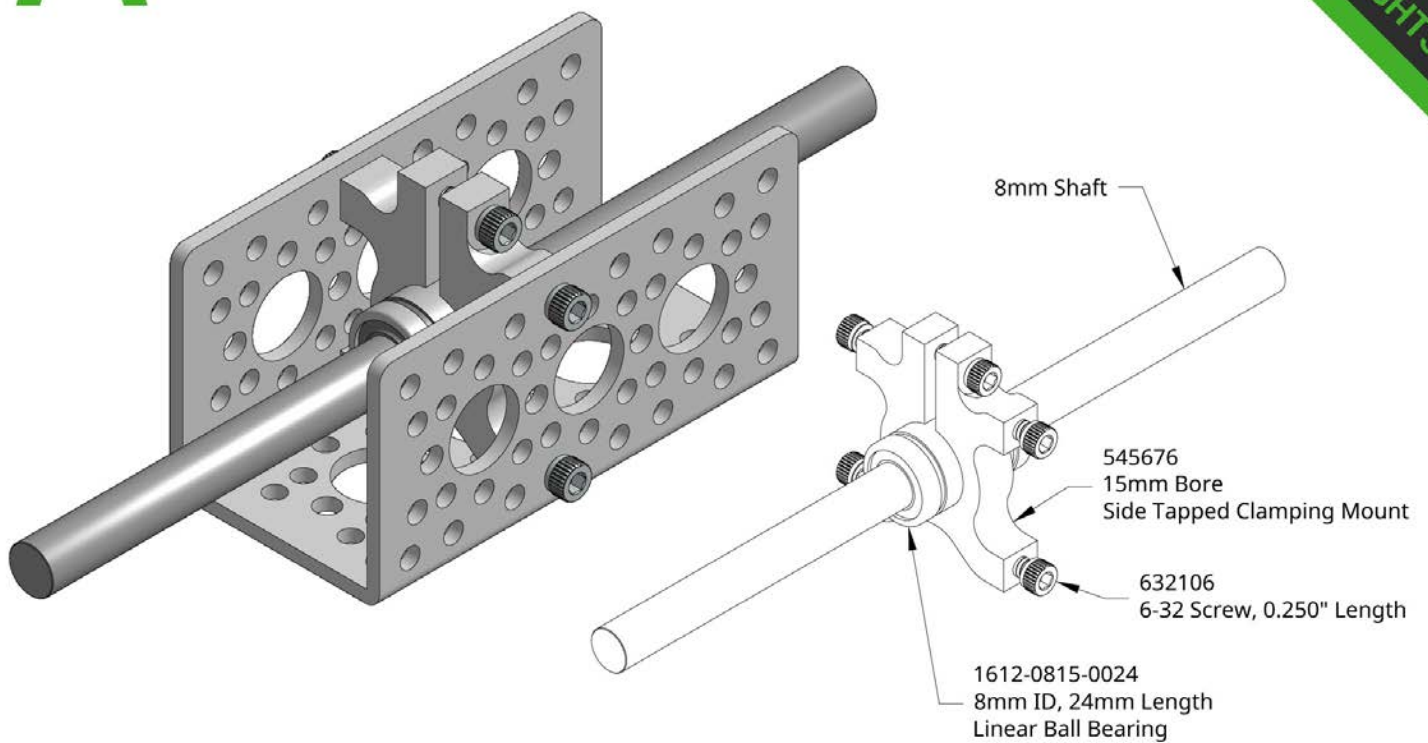
1612-0815-0024 Product Insight #1

A 15mm Bore Clamping Hub can be attached to the linear bearing and many Actobotics parts with the 1.500" pattern can be directly screwed down.



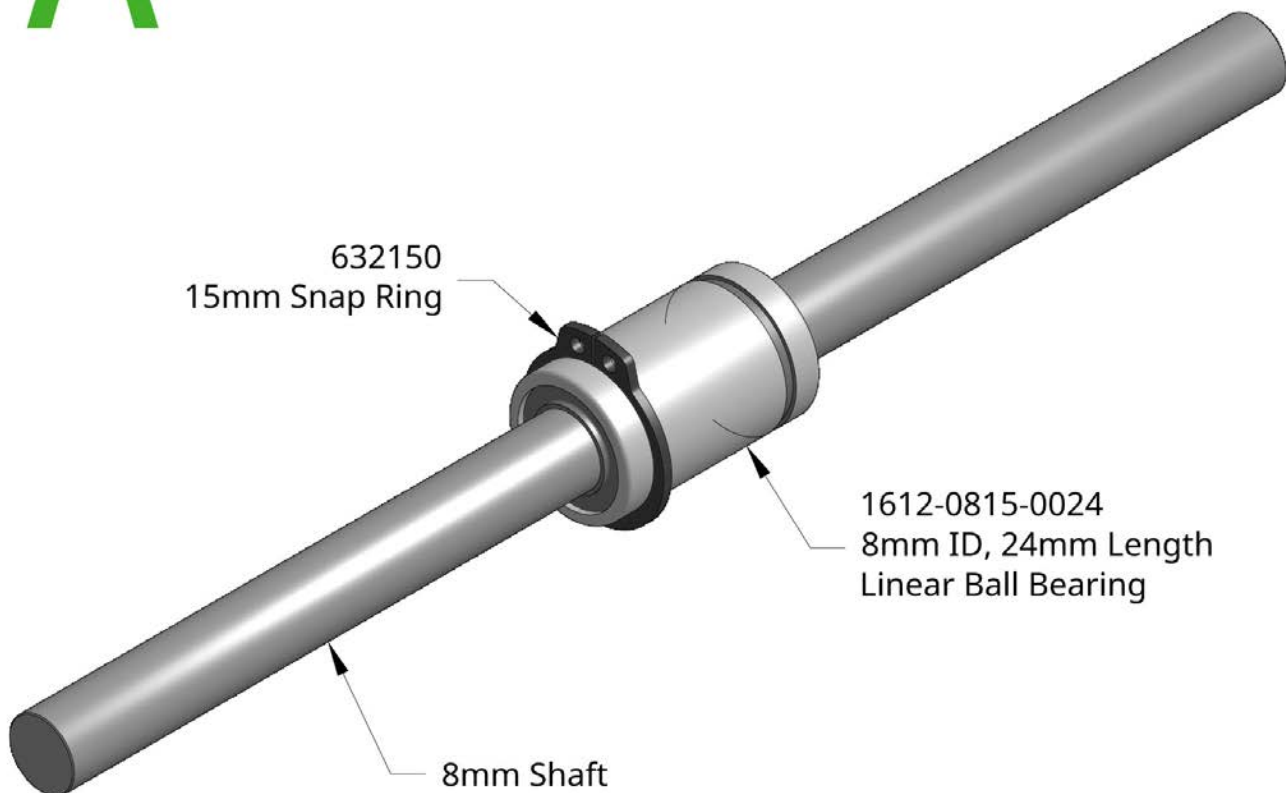
1612-0815-0024 Product Insight #2

When a piece of Actobotics Channel needs to move linearly, a pair of 15mm Bore Bottom Tapped Clamping Hub's can be attached to a linear bearing and the channel can be screwed down.



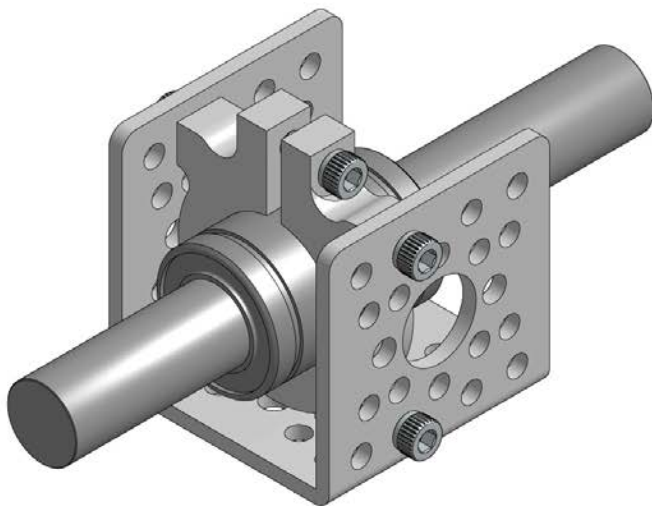
1612-0815-0024 Product Insight #3

A shaft can be used as a linear rail down the center of Actobotics Channel by screwing down a Side Tapped Clamping Mount inside of channel and then clamping to the linear bearing.



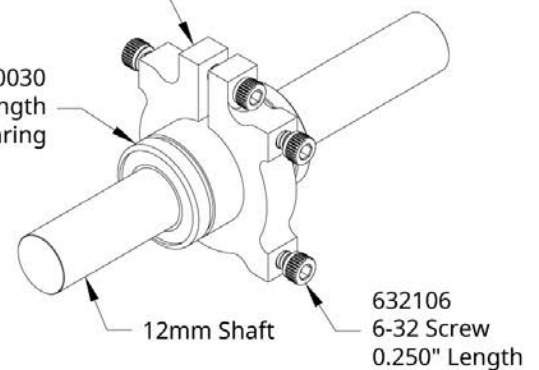
1612-0815-0024 Product Insight #4

The grooves that are at either end of the linear bearing are meant for 15mm snap rings to be installed. This is a cheap and easy way to constrain the bearing in an assembly.



545662
21mm Bore
Side Tapped Clamping Mount

1612-1221-0030
12mm ID, 30mm Length
Linear Ball Bearing

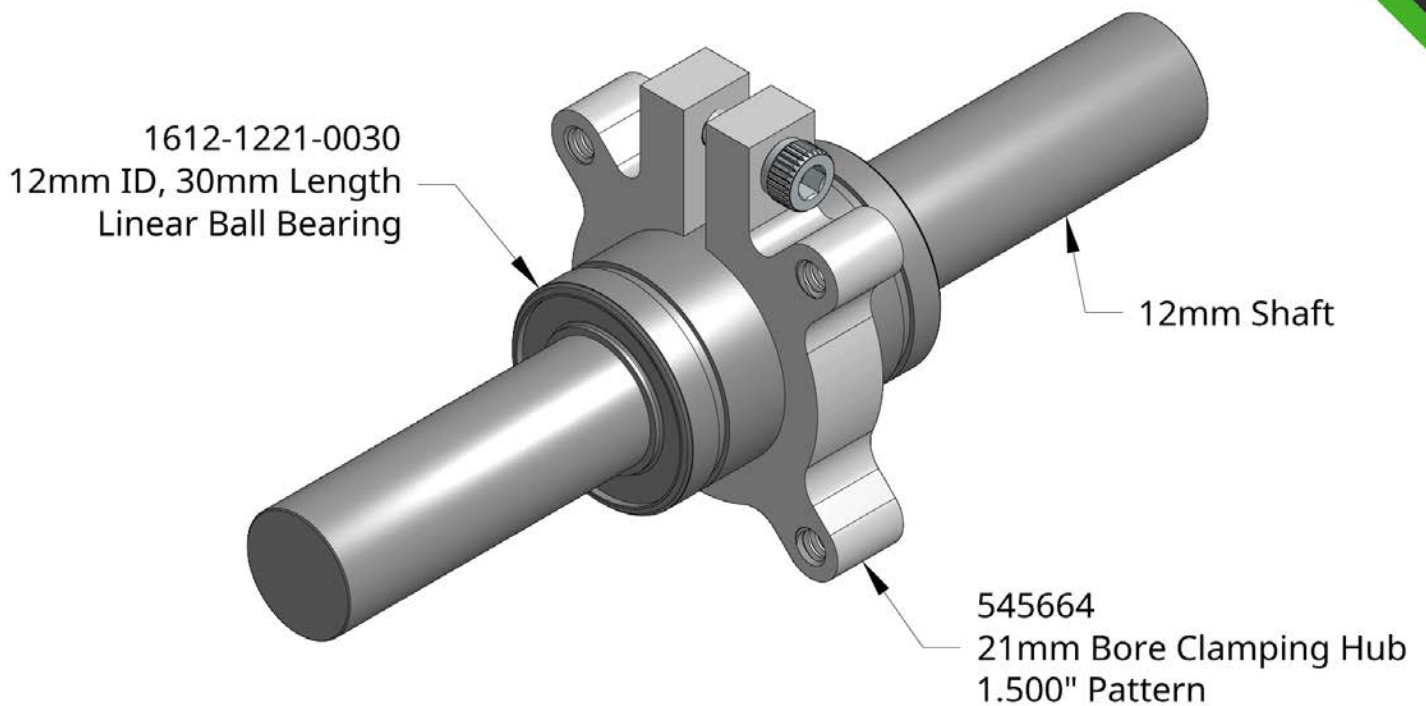


12mm Shaft

632106
6-32 Screw
0.250" Length

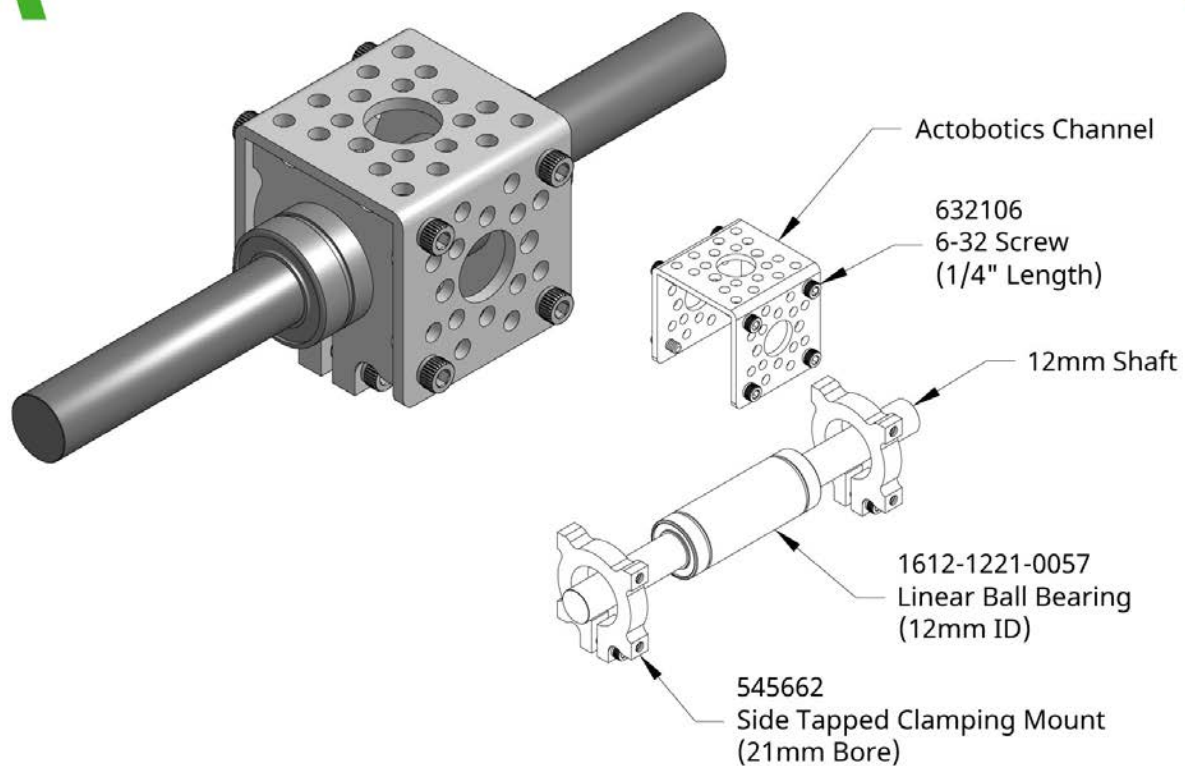
1612-1221-0030 Product Insight #1

A shaft can be used as a linear rail down the center of Actobotics Channel by screwing down a Side Tapped Clamping Mount inside of channel and then clamping to the linear bearing.



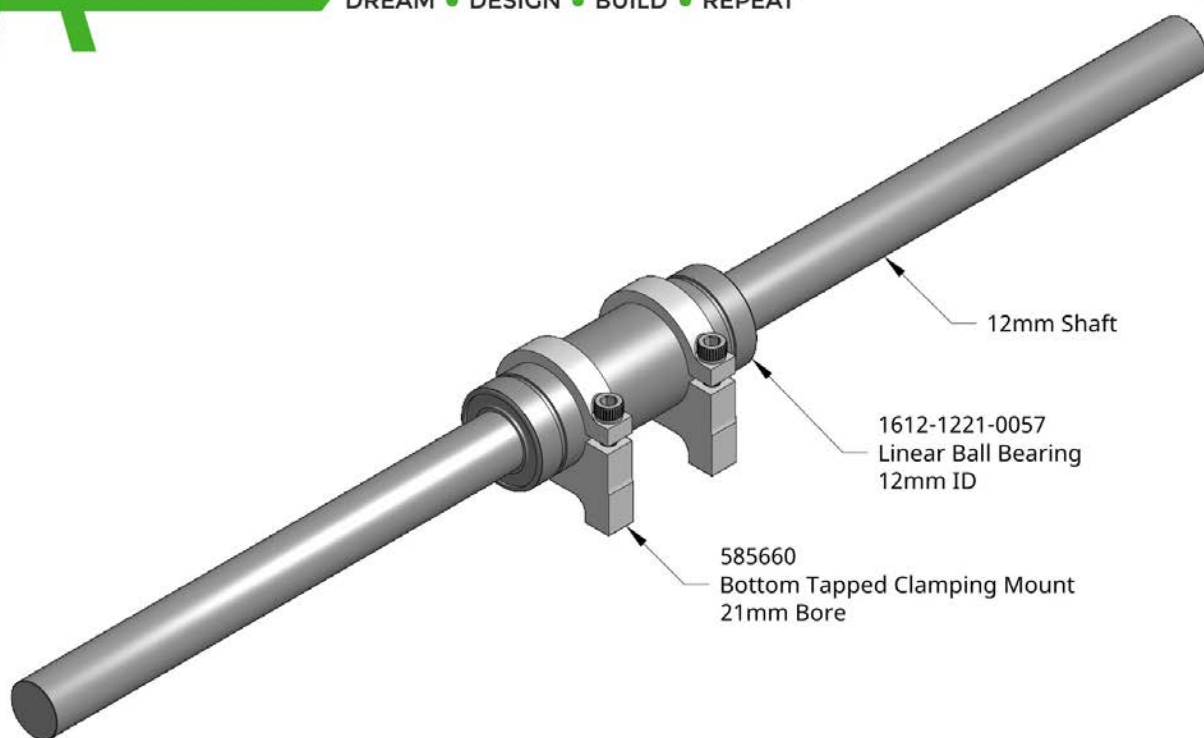
1612-1221-0030 Product Insight #3

A 21mm Bore Clamping Hub can be attached to the linear bearing and many Actobotics parts with the 1.500" pattern can be directly screwed down.



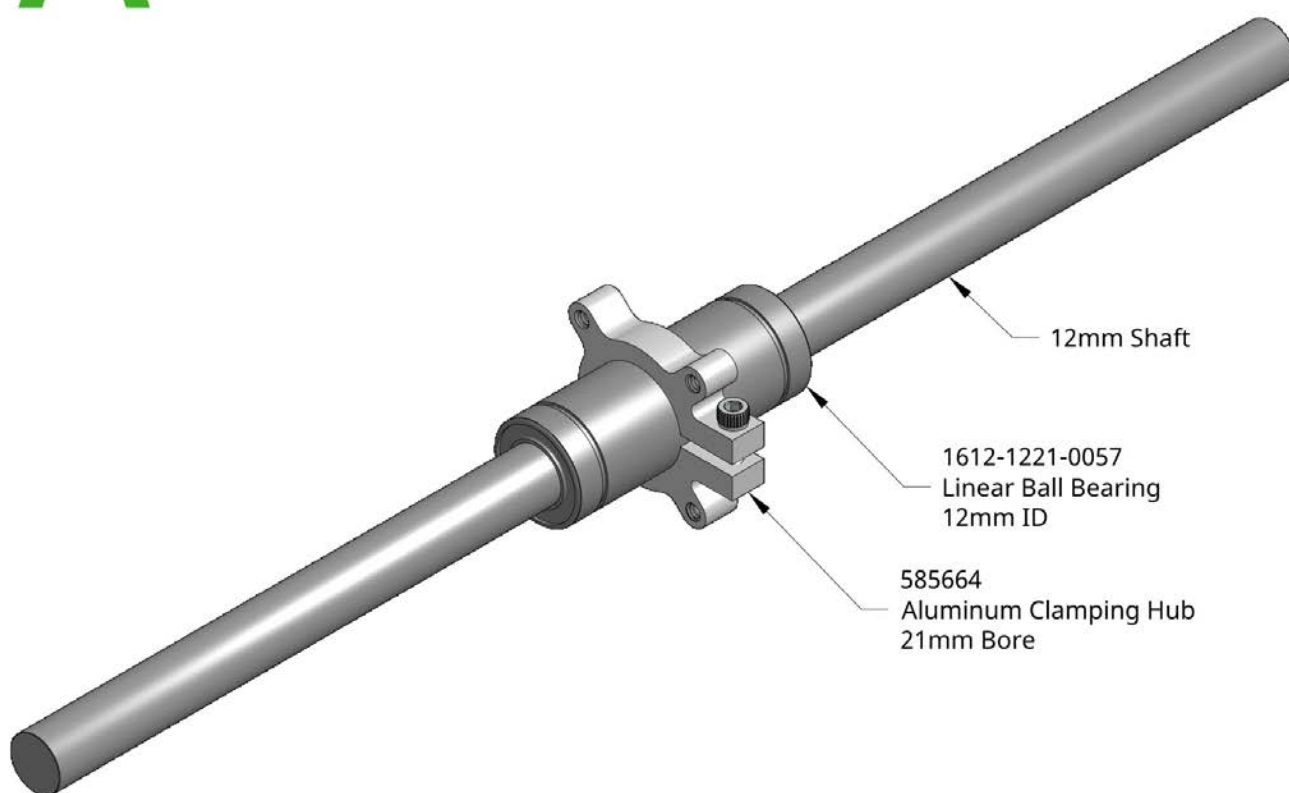
1612-1221-0057 Product Insight #1

A shaft can be used as a linear rail down the center of Actobotics Channel by screwing down a Side Tapped Clamping Mount inside of channel and then clamping to the linear bearing.



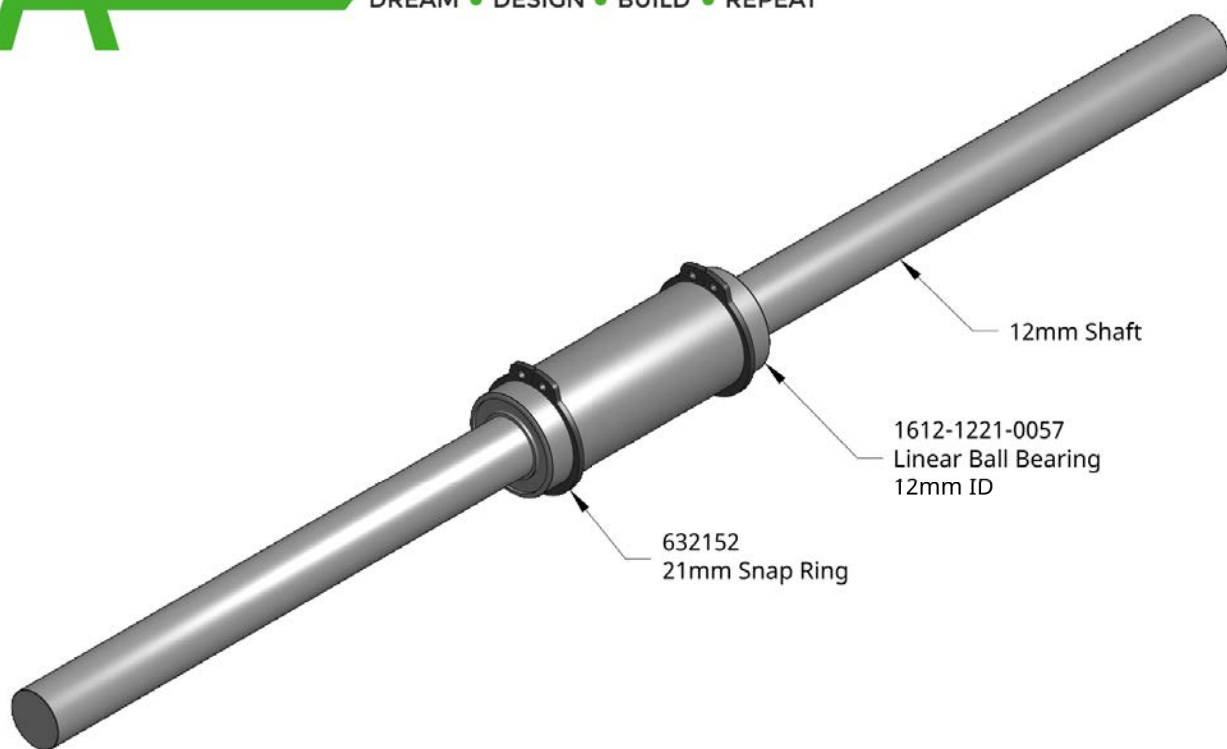
1612-1221-0057 Product Insight #2

Bottom Tapped Clamping Mounts can be clamped to a linear bearing and nearly any part with the Actobotics Pattern can be screwed down. This allows linear motion to be given to a wide range of components!



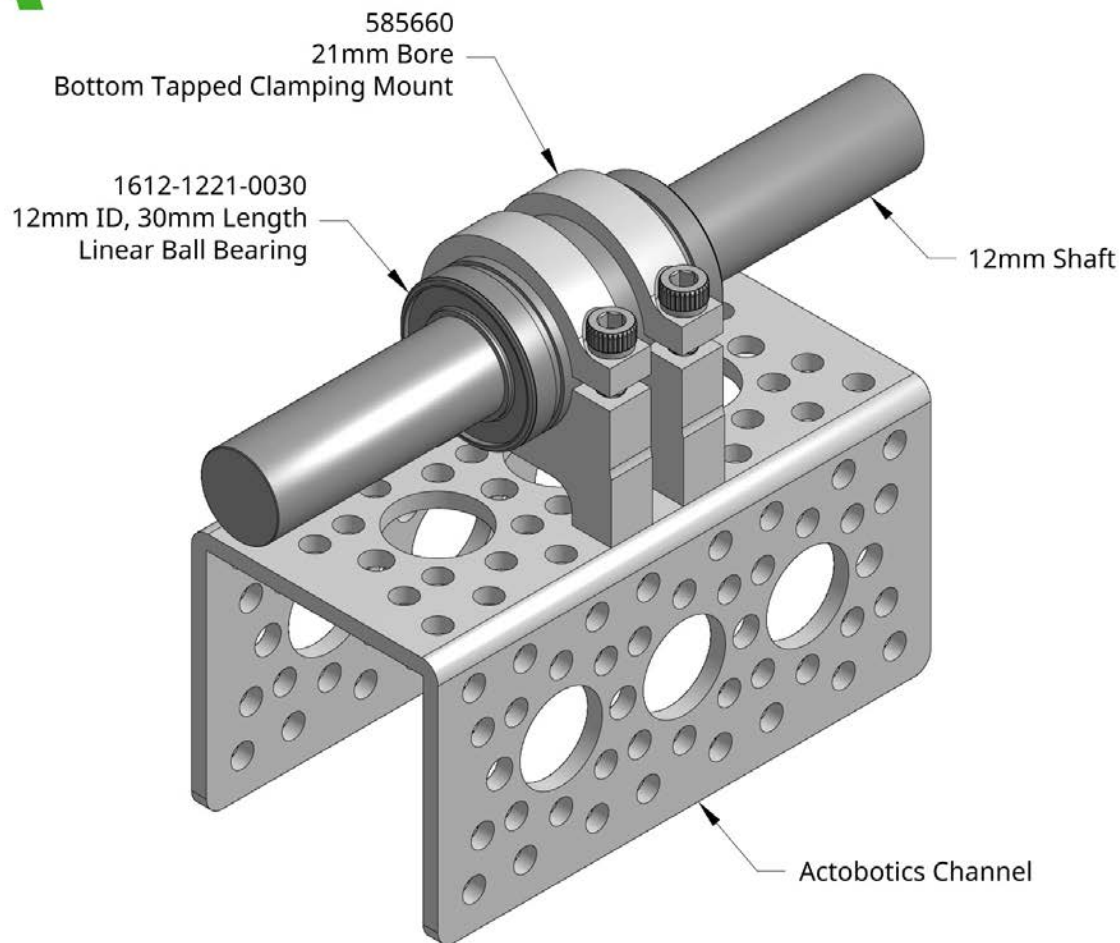
1612-1221-0057 Product Insight #3

A 21mm Bore Clamping Hub can be attached to the linear bearing and many Actobotics parts with the 1.500" pattern can be directly screwed down.



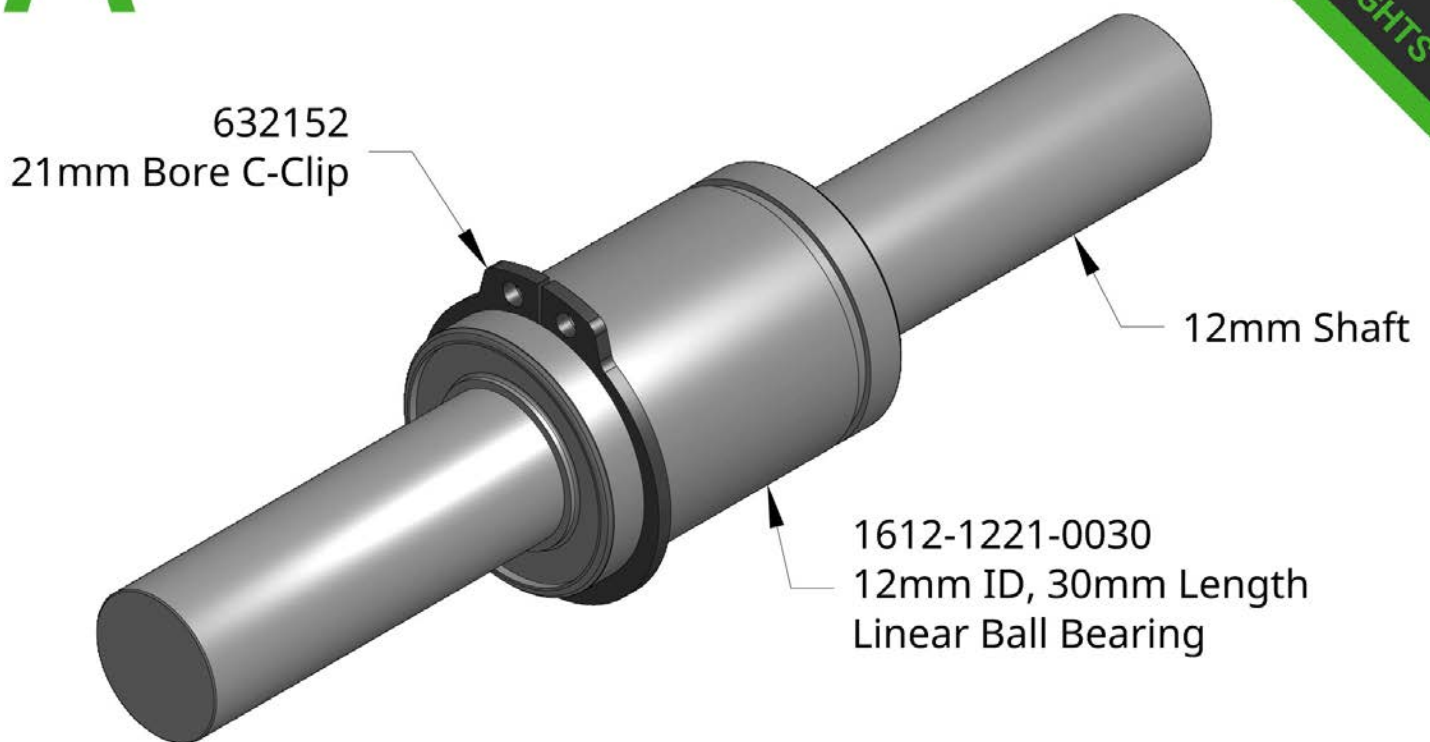
1612-1221-0057 Product Insight #4

The grooves at either end of the linear bearing are meant for 21mm snap rings to be installed. This is a cheap and easy way to constrain the linear bearing in an assembly.



1612-1221-0030 Product Insight #2

A piece of Actobotics Channel can move linearly down a 12mm shaft by clamping a pair of 15mm bore Bottom Tapped Clamping Hub's to the linear bearing and screwing down the channel.



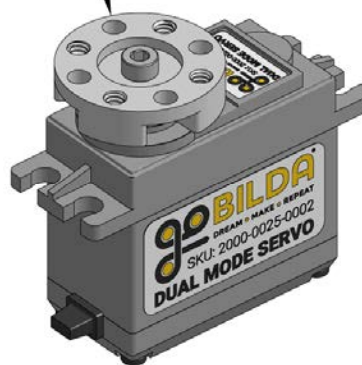
1612-1224-0030 Product Insight #4

The grooves that are at either end of the linear bearing are meant for 21mm snap rings to be installed. This is a cheap and easy way to constrain the linear bearing in an assembly.

525150
Servo to Shaft
Clamping Coupler



525132
Actobotics Servo Hub



FS250-10A
Servo Sprocket
(0.25" Pitch)



615306
Servo Gear
(32 Pitch)



525142
Servo Shaft

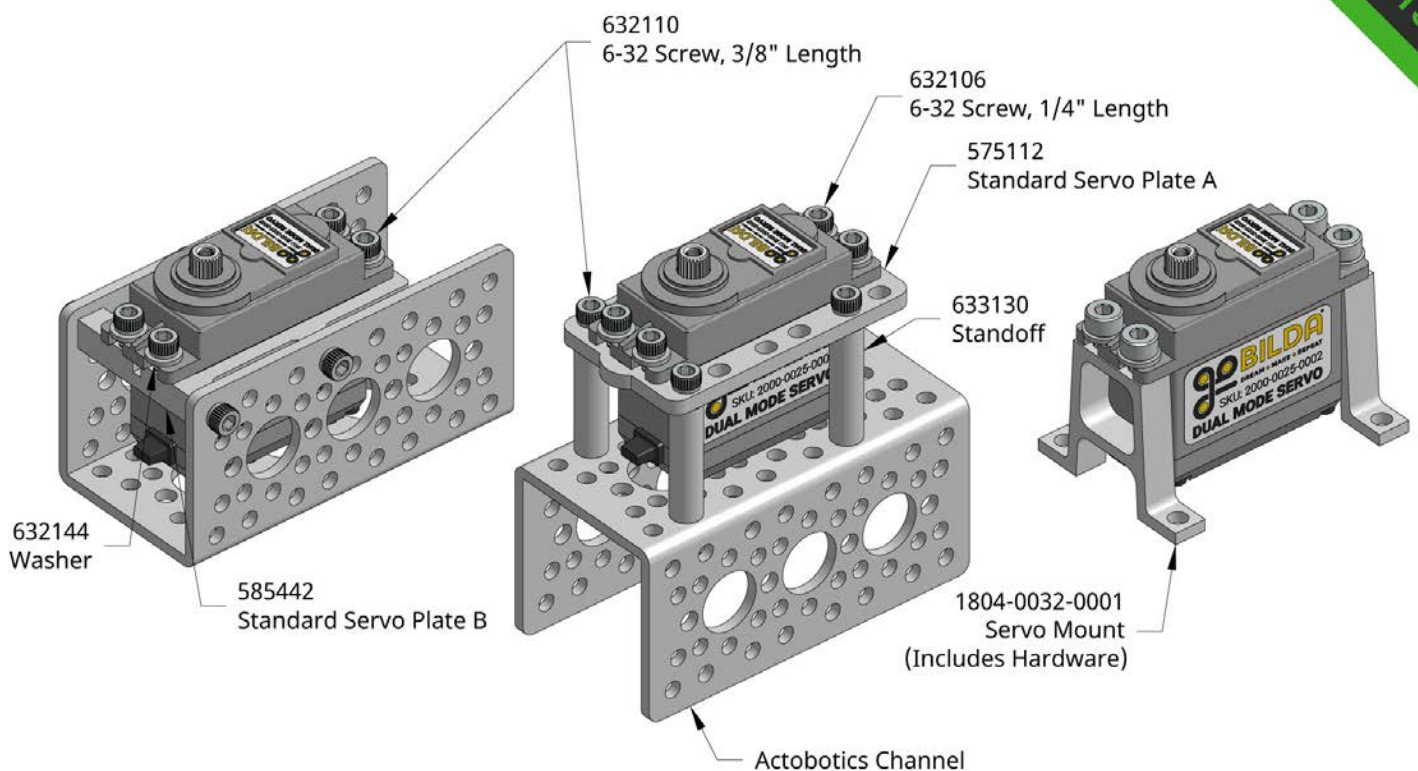


Servo Horn



2000-0025-0002 Product Insight #1

Whether you are rotating a wheel, driving a gear train, or pivoting an armature, we have an array of 25 tooth attachments available to get you up and going.



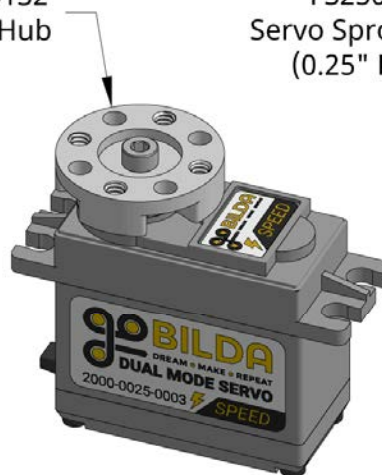
2000-0025-0002 Product Insight #2

You can easily mount the 2000-0025-0002 Dual Mode Servo to Actobotics components via any standard sized Actobotics Servo Plate. You can also fasten it to a flat surface via a 1804-0032-0001 Servo Mount.

525150
Servo to Shaft
Clamping Coupler



525132
Actobotics Servo Hub



FS250-10A
Servo Sprocket
(0.25" Pitch)



615306
Servo Gear
(32 Pitch)



525142
Servo Shaft

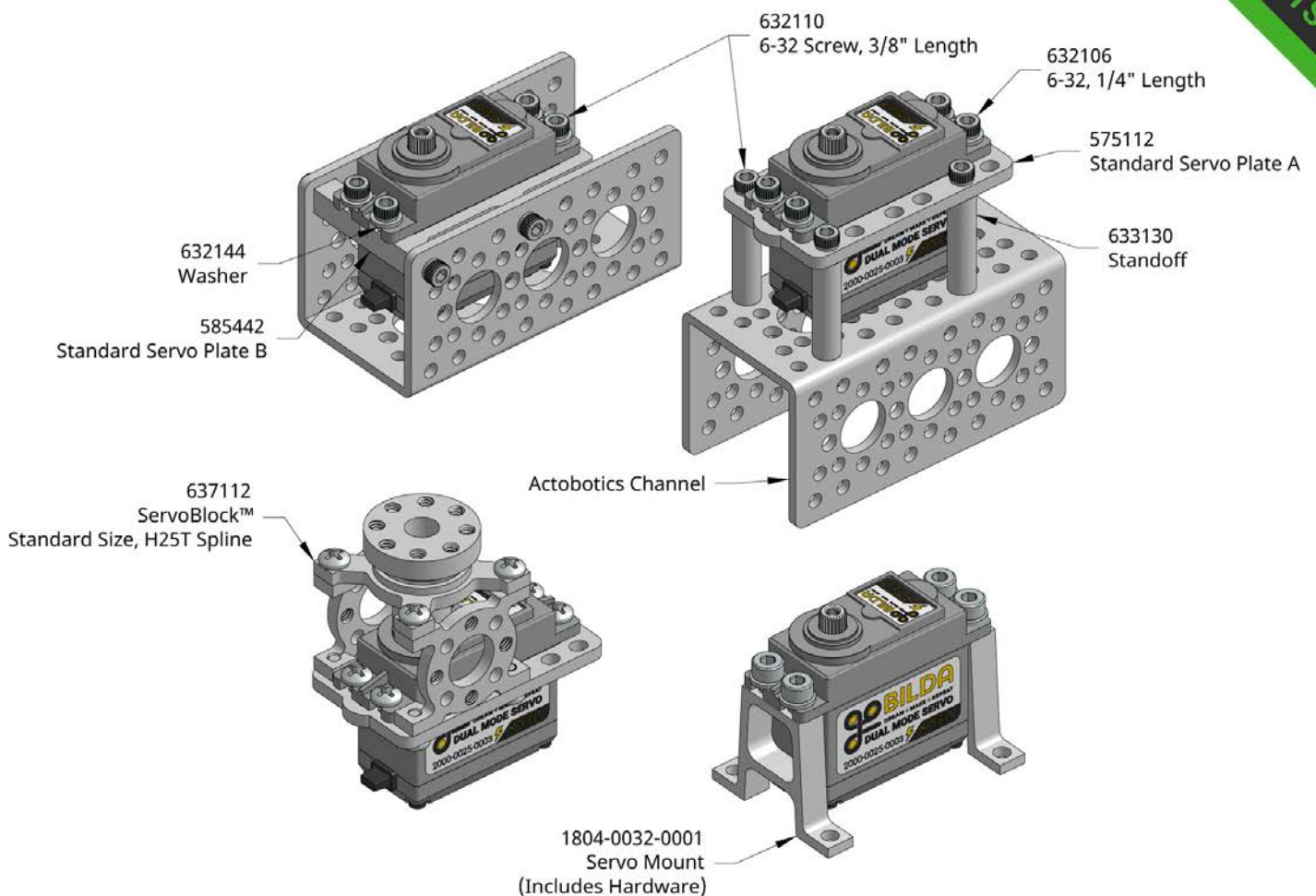


Servo Horn



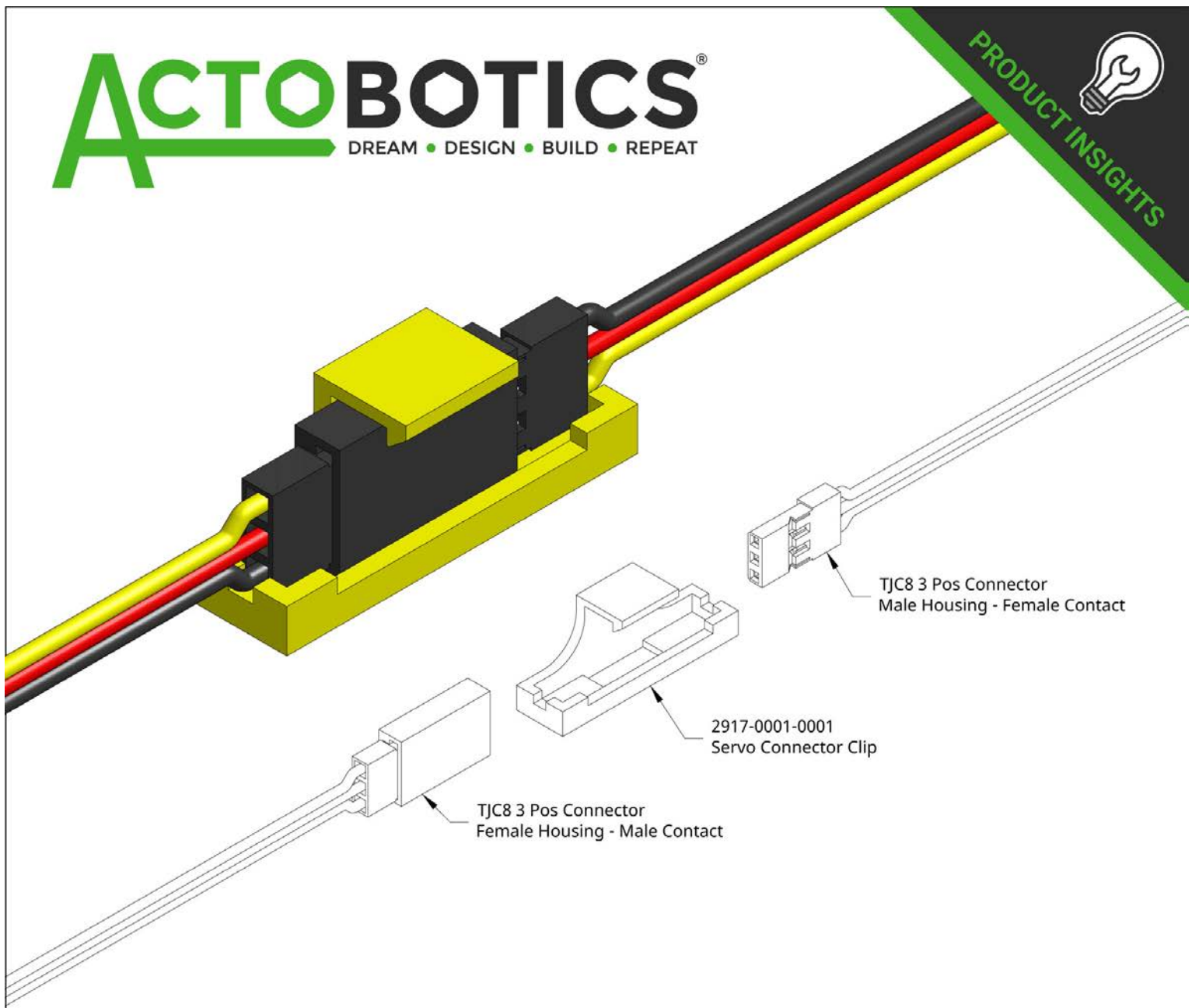
2000-0025-0003 Product Insight #1

The 2000-0025-0003 has a standard H25T spline which allows you to easily use it in Actobotics builds. Whether you are rotating a wheel, driving a gear train, or pivoting an armature, we have an array of 25 Tooth attachments available to get you up and going.



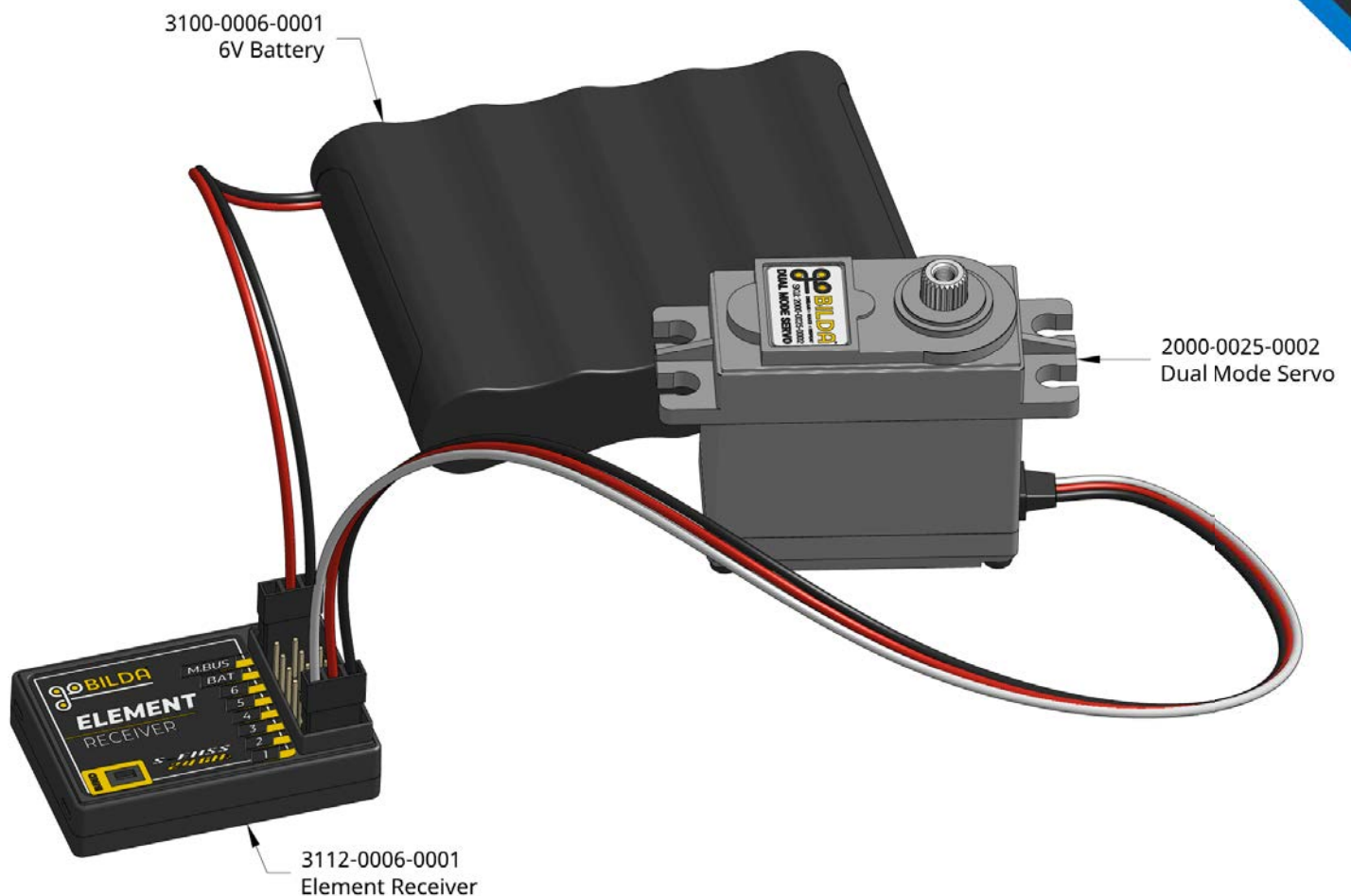
2000-0025-0003 Product Insight #2

The 2000-0025-0003 has a standard size servo mounting profile. This allows you to easily mount it to Actobotics components via any standard sized Actobotics Servo Plate. You can also fasten it to a flat surface via a 1804-0032-0001 Servo Mount, or give it a full exoskeleton with a bearing supported output using a ServoBlock™.



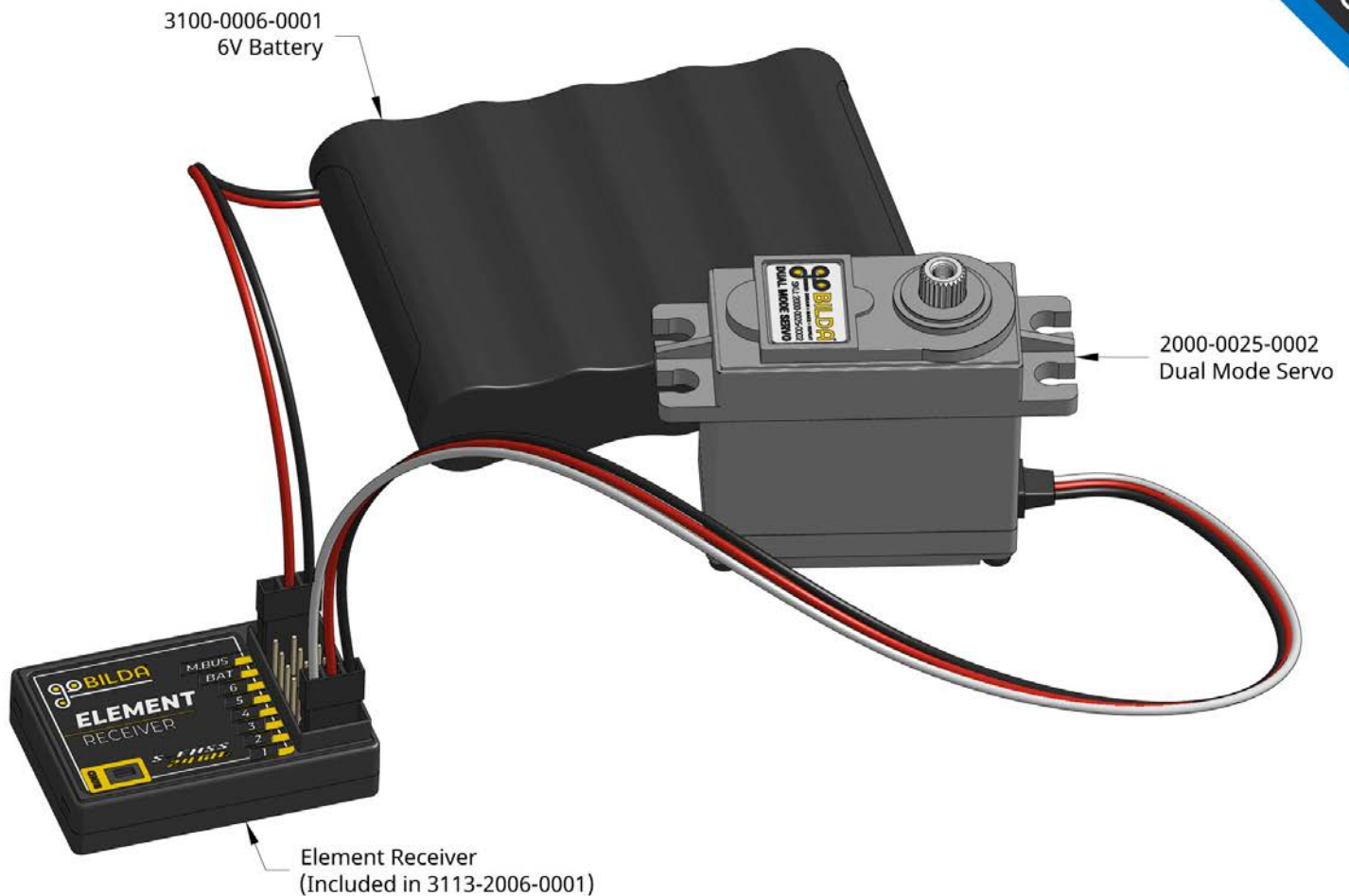
2917-0001-0001 Product Insight #1

The 2917-0001-0001 Servo Connector Clip is an excellent way to ensure your servo connections won't come loose in your project. Simply plug the servo connectors together, then snap the clip on for a worry-free connection.



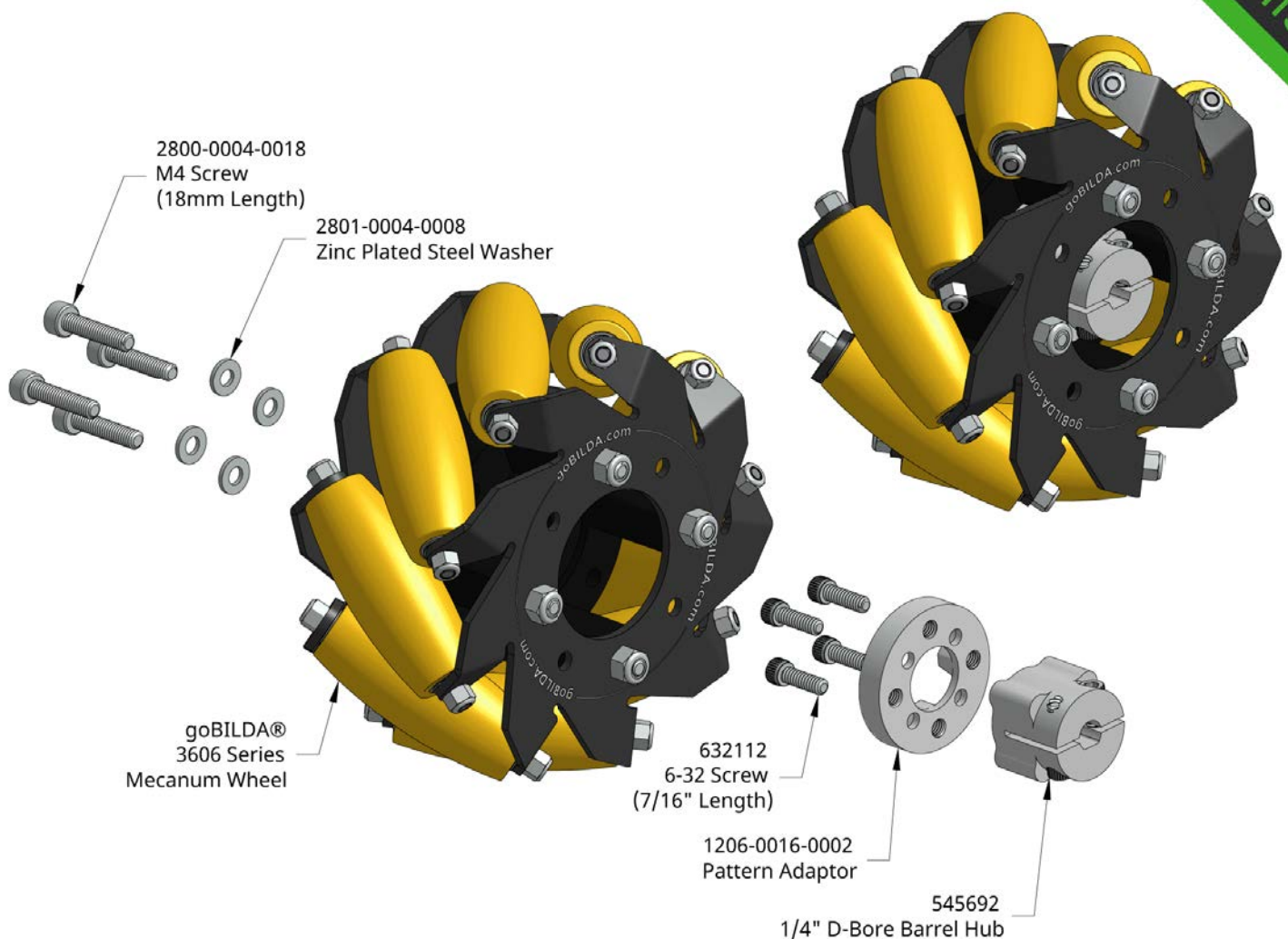
3112-0006-0001 Product Insight #1

The Element Receiver can handle between 3.5 and 7.4 Volts DC which can be supplied to any of the channels. All + pins are connected. All - pins are connected. The signal pins are the most inboard pins (nearest the label) and are not connected to each other. In the assembly shown, you can plug the battery into any one of the unused channels and it will power the receiver as well as the servo.



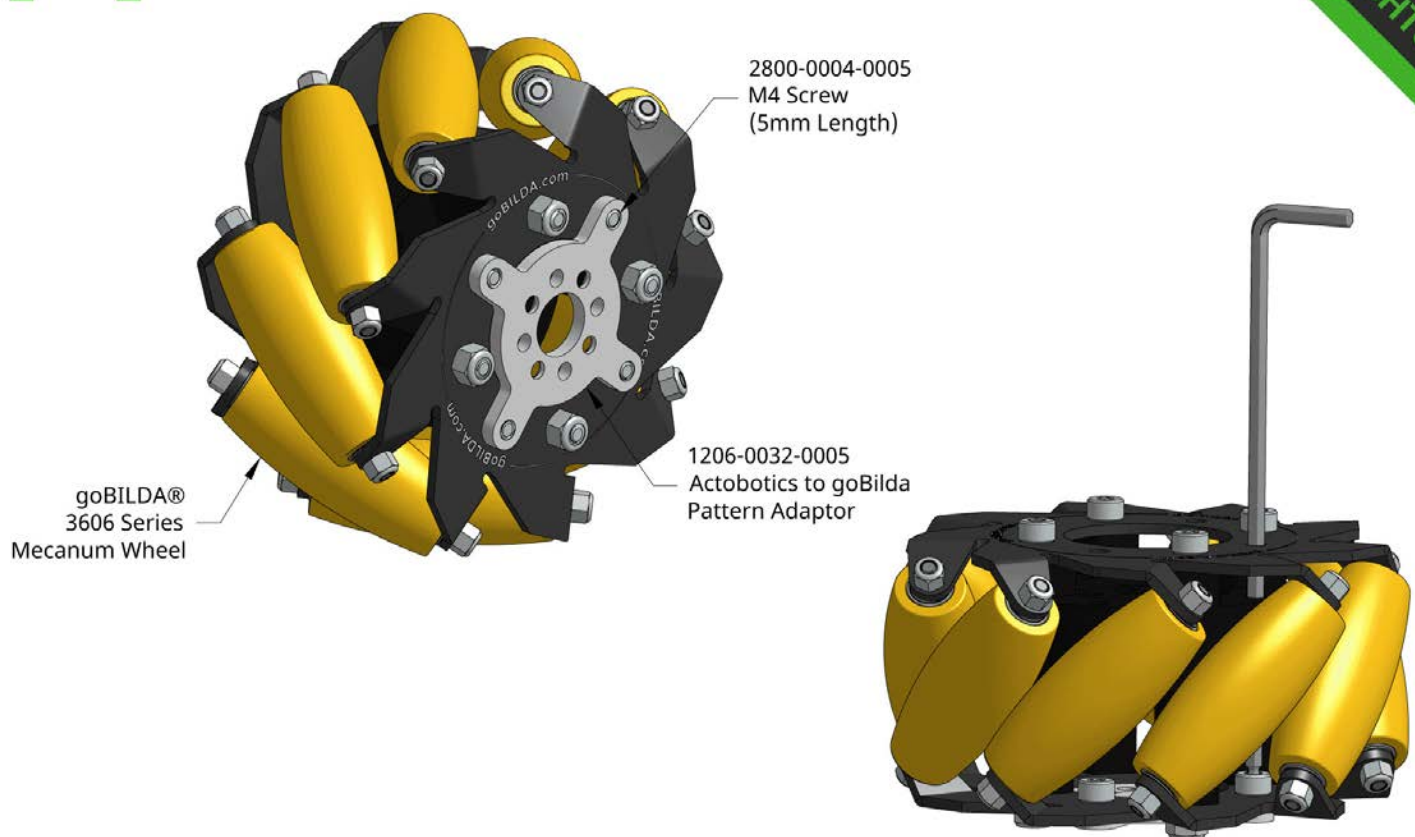
3113-2006-0001 Product Insight #1

The 3113-2006-0001 Element-6 Radio Control System includes the Element Receiver. It can handle between 3.5 and 7.4 Volts DC which can be supplied to any of the channels. All + pins are connected. All - pins are connected. The signal pins are the most inboard pins (nearest the label) and are not connected to each other. In the assembly shown, you can plug the battery into any one of the unused channels and it will power the receiver as well as the servo.



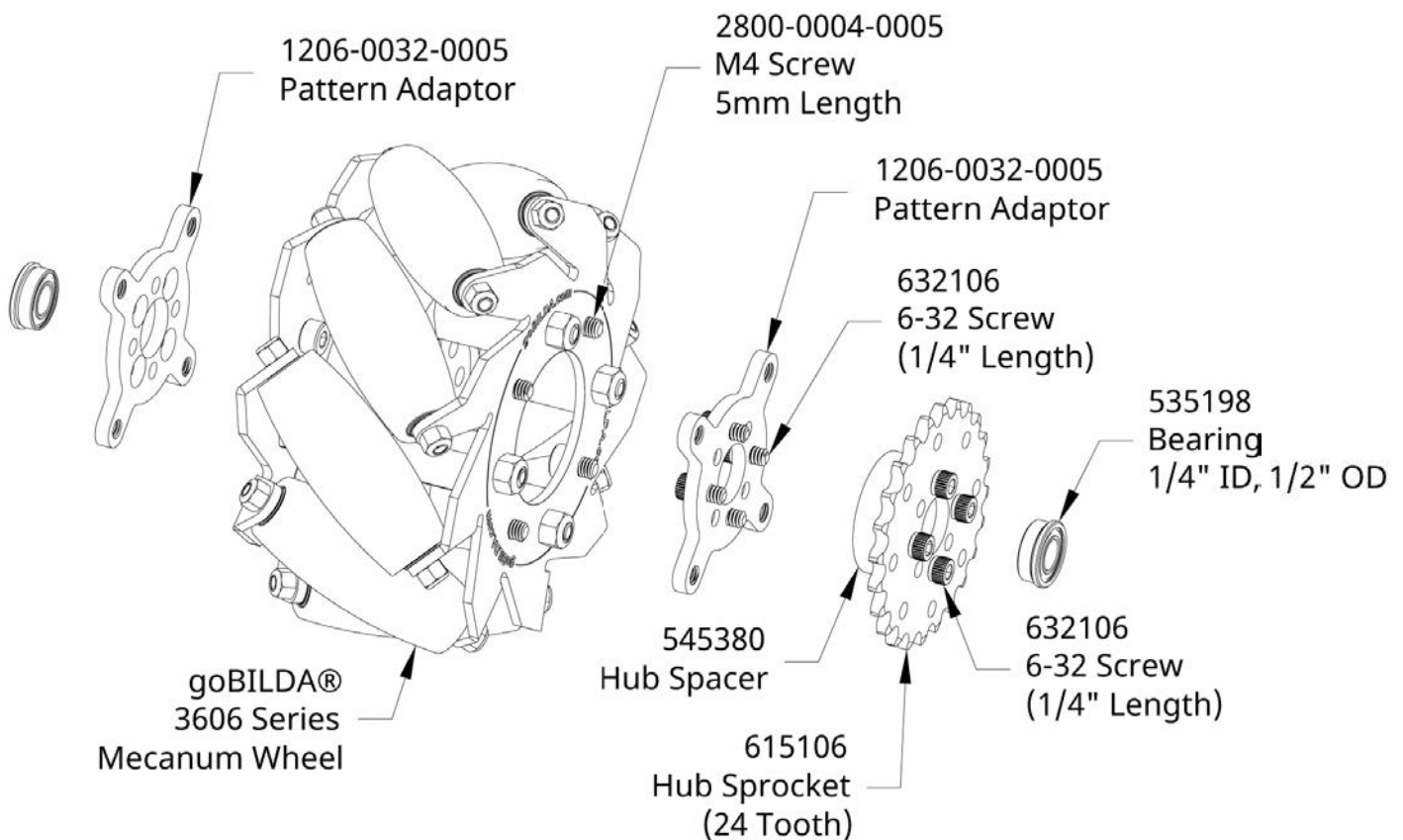
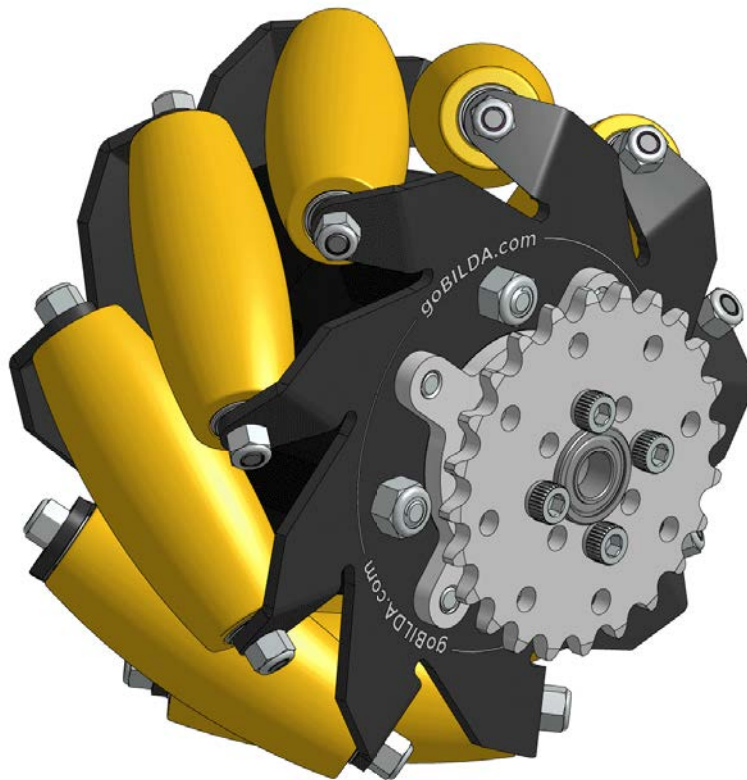
3606 Series Product Insight #1

goBILDA 3606 Series Mecanum Wheels can be adapted to run on a 1/4" shaft using a 1/4" D-Bore Barrel Hub and a 1206-0016-0002 Pattern Adaptor. The goBILDA Mecanum Wheels work well with Actobotics chassis.



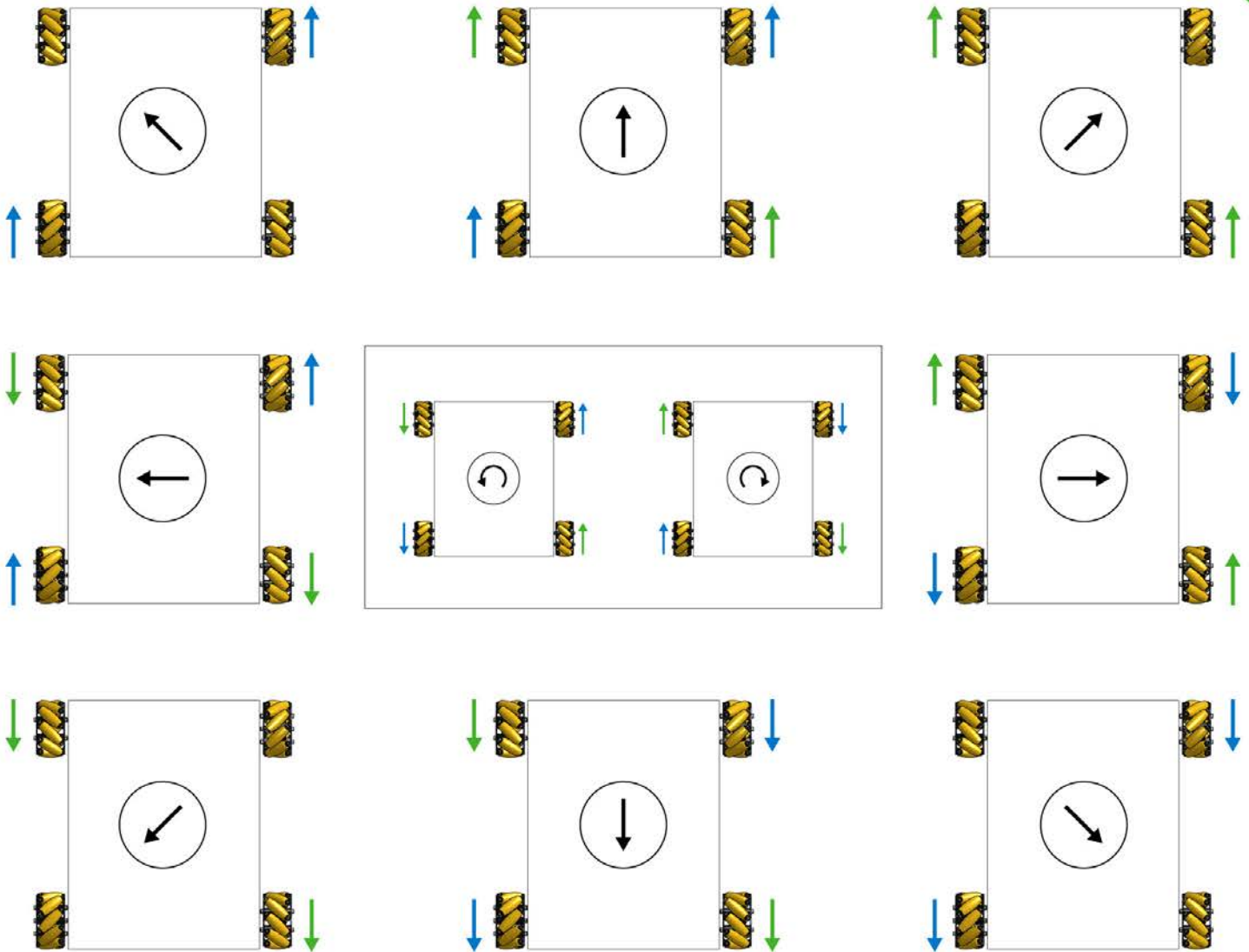
3606 Series Product Insight #2

goBILDA 3606 Series Mecanum Wheels can be adapted to the 0.770" Actobotics pattern using the 1206-0032-0005 Actobotics to goBILDA Pattern Adaptor.



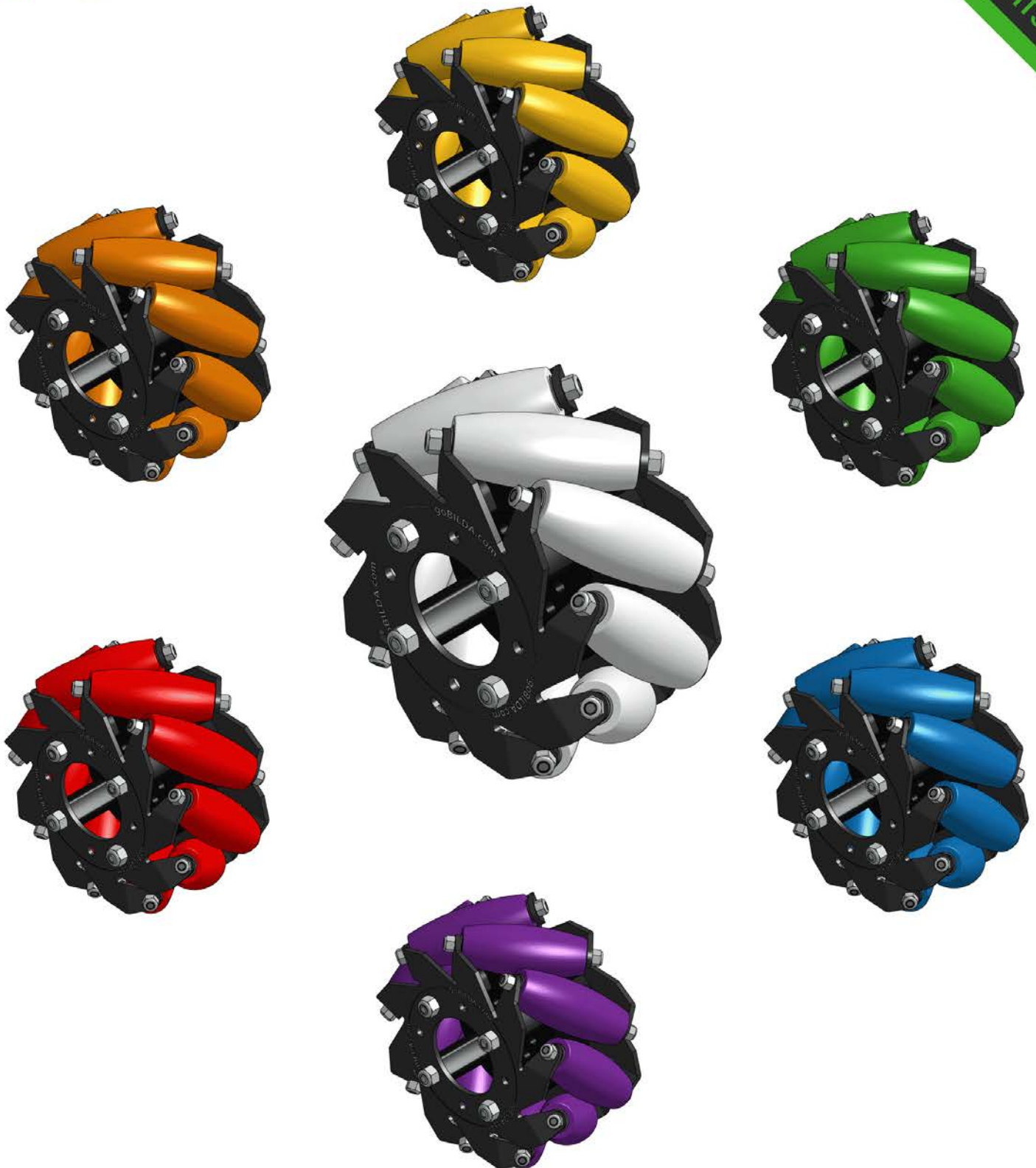
3606 Series Product Insight #3

Actobotics® components can be mounted to goBILDA® 3606 Series Mecanum Wheels via the 1206-0032-0005 Pattern Adaptor. In this assembly, a hub spacer stands off a sprocket (allowing clearance for chain). Two 1/2" OD Flanged Ball Bearings (one on the left-most pattern adaptor and one on the sprocket) would allow this assembly to spin freely on a shaft, giving you a "dead axle" setup.



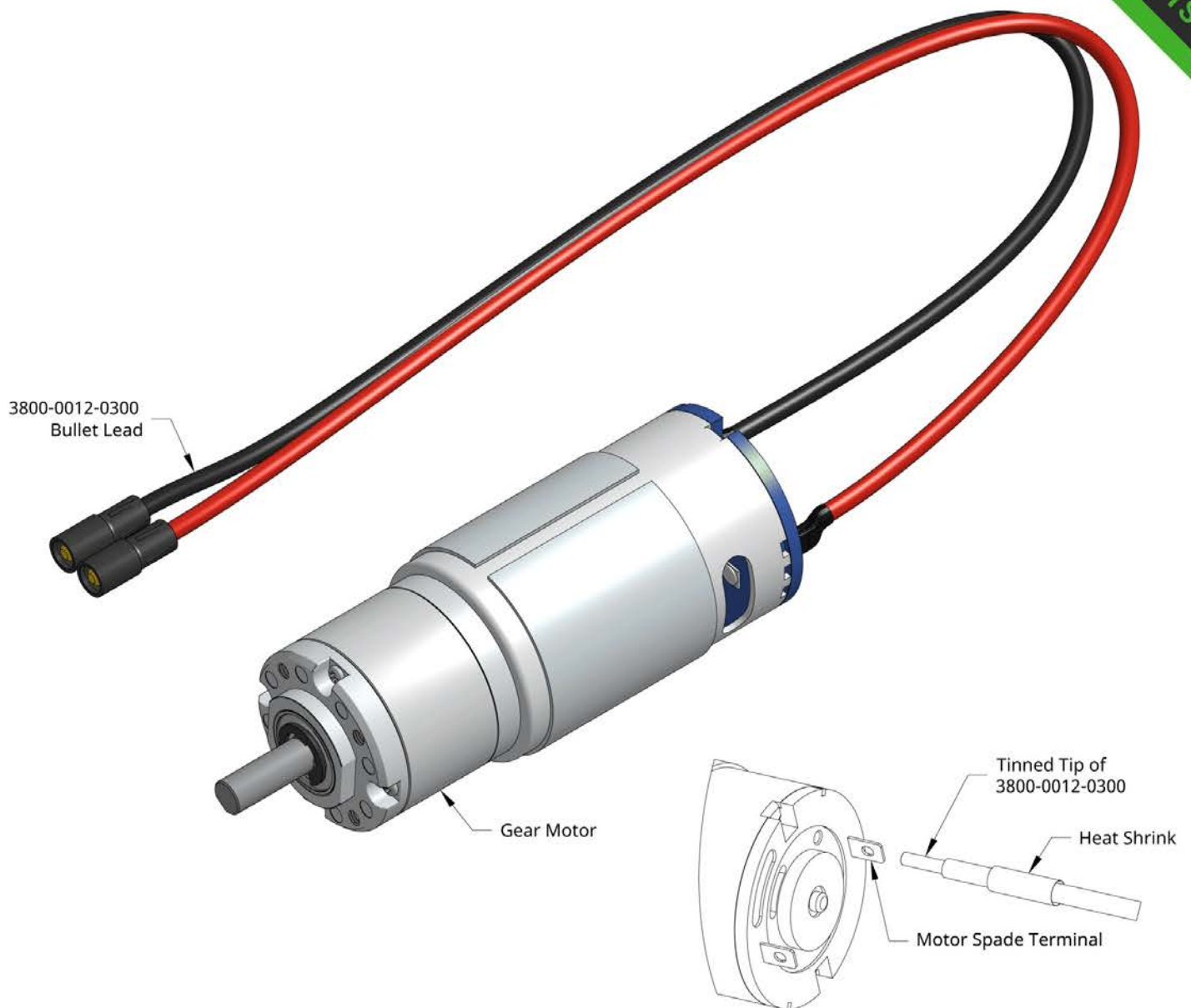
3606 Series Product Insight #4

Mecanum wheels allow you to strafe side-to-side and diagonally. To achieve this, the wheels need to be controlled in a specific way. The green arrows represent rotation of the left slant wheels. The blue arrows represent the rotation of the right slant wheels. To drive forward, backward or to strafe, the left slant wheels move together and the right slant wheels move together. However to rotate skid-steer style, the left slant wheels move counter to one another as do the right slant wheels. This requires four separate channels on your motor controller.



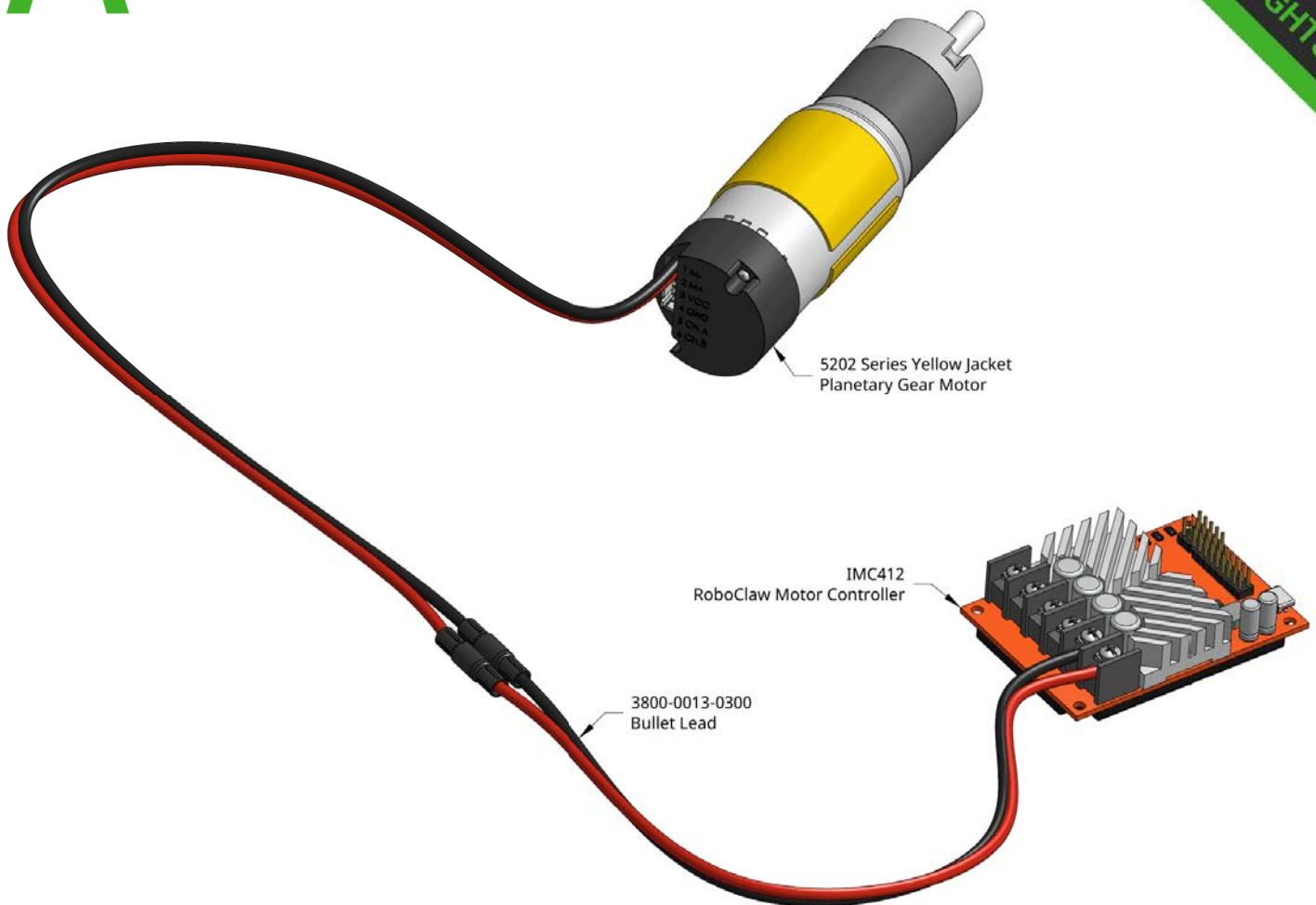
3611-0001-0002 Product Insight #1

While 3606 Series Mecanum Wheels come in yellow (seen at the top of the mecanum color wheel above), you might want to make your mecanums match your team's branding. The 3611-0001-0002 mecanum wheel rollers are white so you can dye them whatever color you want. Once you are happy with your hue, just swap out the stock rollers for your new team-branded ones.



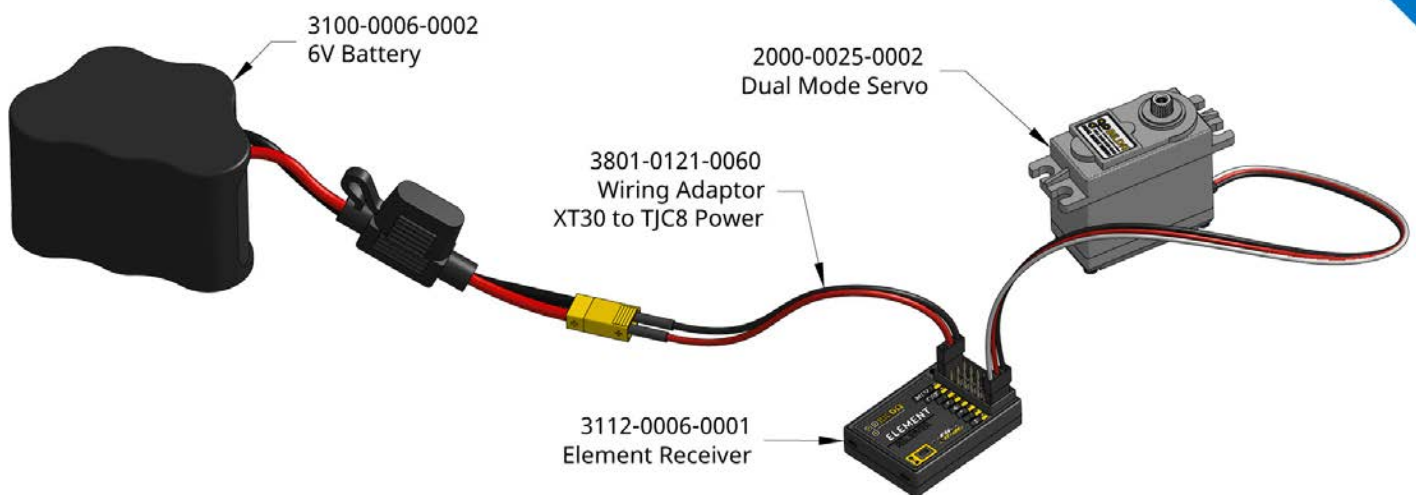
3800-0012-0300 Product Insight #1

If you are a fan of the bullet connectors on the 5201 and 5202 Series gear motors, you may want to add bullet connectors to other gear motors you have as well. The 3800-0012-0300 Bullet Lead makes this easy. Simply solder the ends to the motor's terminals. The wire tips are tinned to make soldering easier. Don't forget to use some heat shrink for electrical insulation over the newly soldered connection.



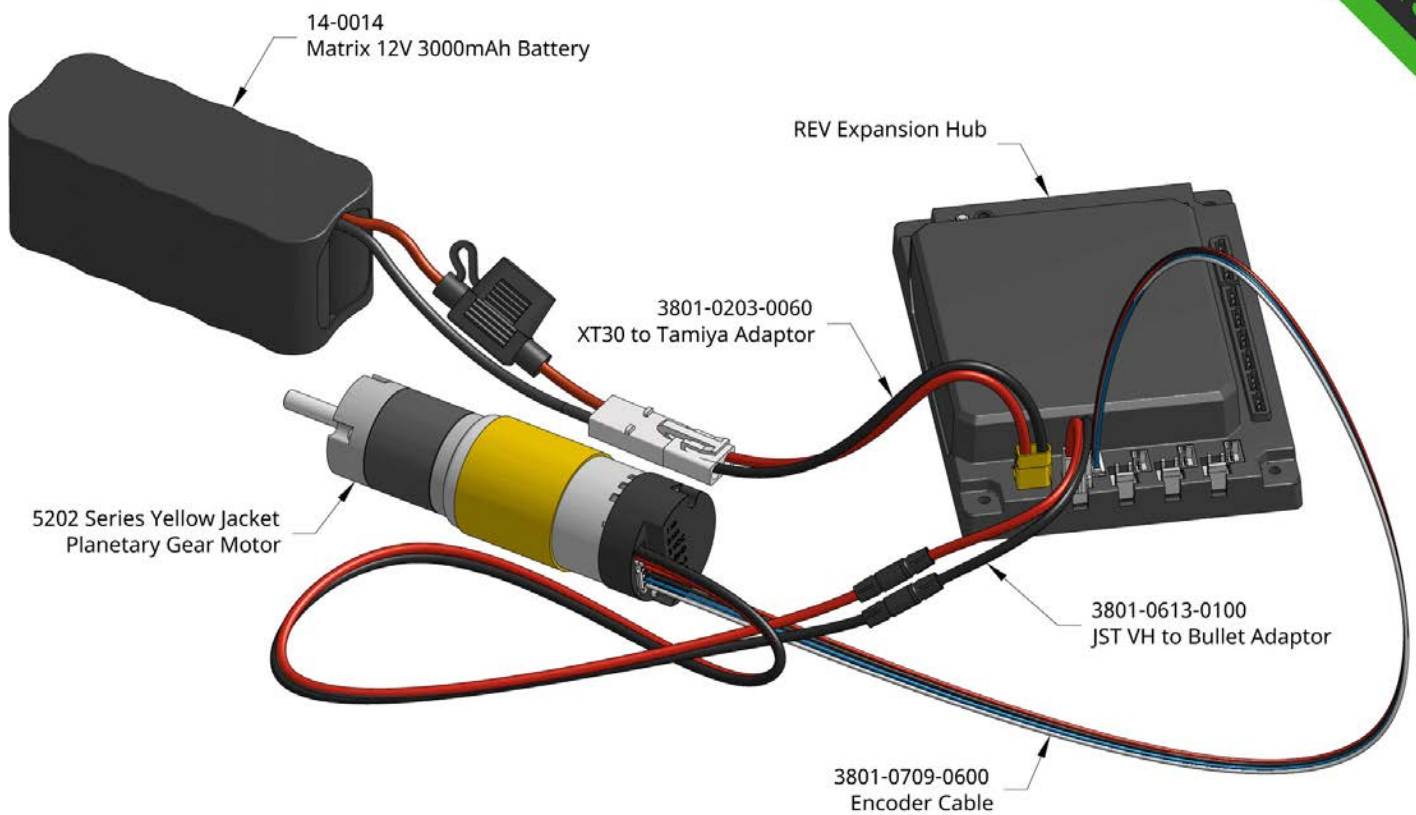
3800-0013-0300 Product Insight #1

The 3800-0013-0300 Bullet Lead is able to connect to screw terminals of a motor controller. This allows you to plug in a 5201 or 5202 Series gear motor without trimming off the bullet connectors found on the motor wires. Having the bullets in between the motor and controller makes swapping motors, swapping polarity, and rerouting wires very easy.



3801-0121-0060 Product Insight #1

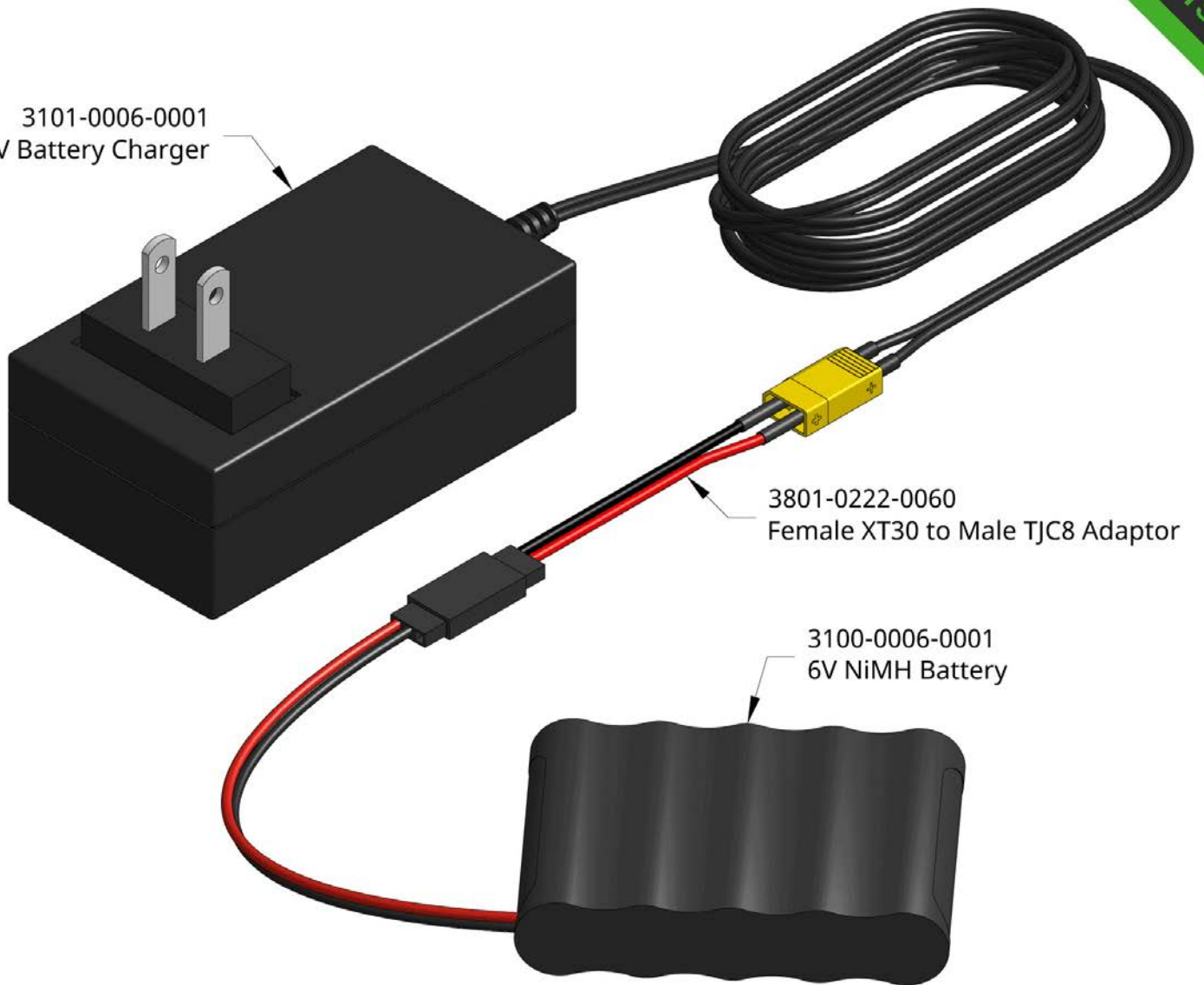
The 3801-0121-0060 adaptor lets you plug a battery that has an XT30 connector to an input designed for a TJC8 (servo style) Power connector.



3801-0203-0060 Product Insight #1

The XT30 to Tamiya Adaptor (3801-0203-0060) allows FTC teams to plug the 14-0014 competition-legal battery into the commonly used REV Expansion Hub.

3101-0006-0001
6V Battery Charger

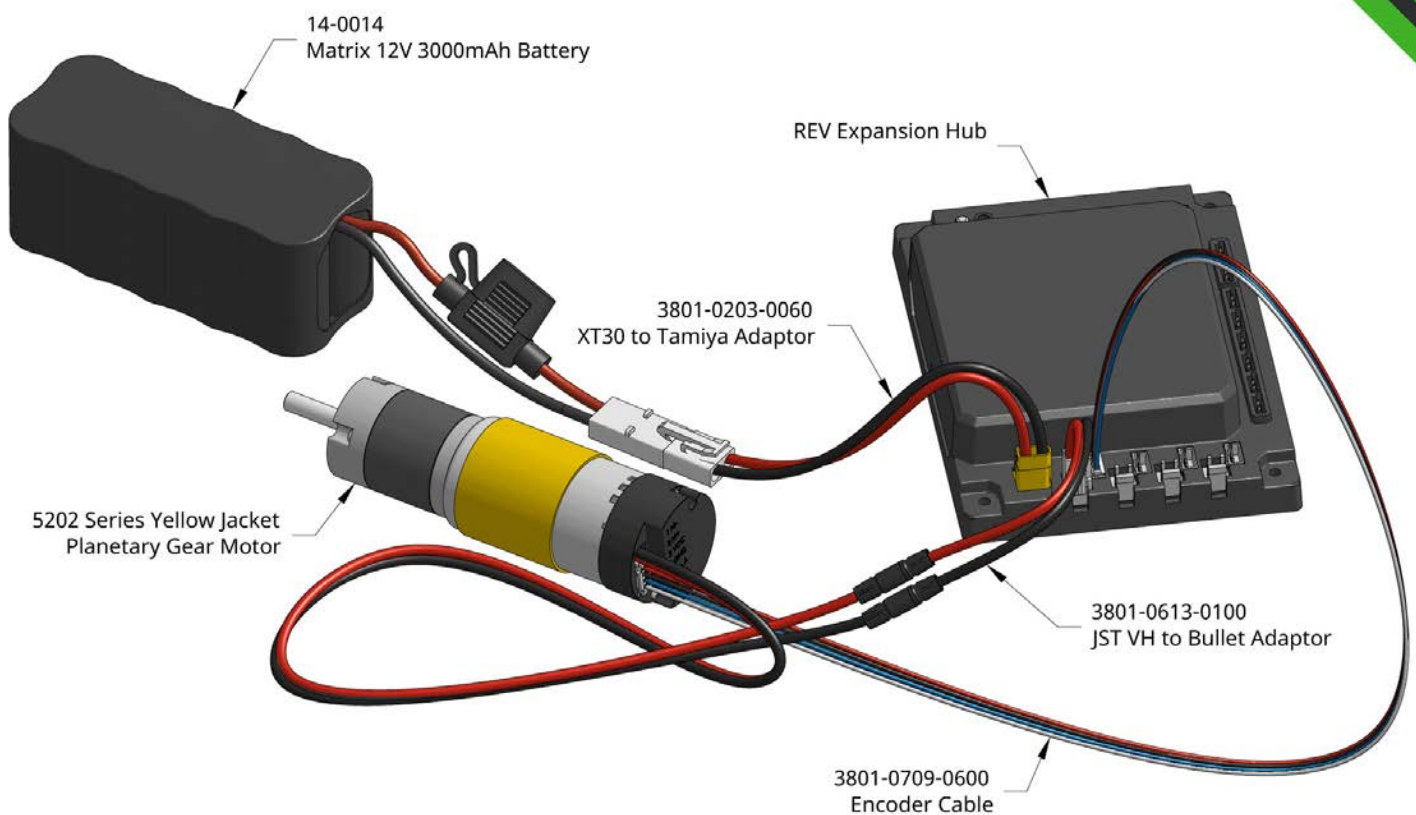


3801-0222-0060
Female XT30 to Male TJC8 Adaptor

3100-0006-0001
6V NiMH Battery

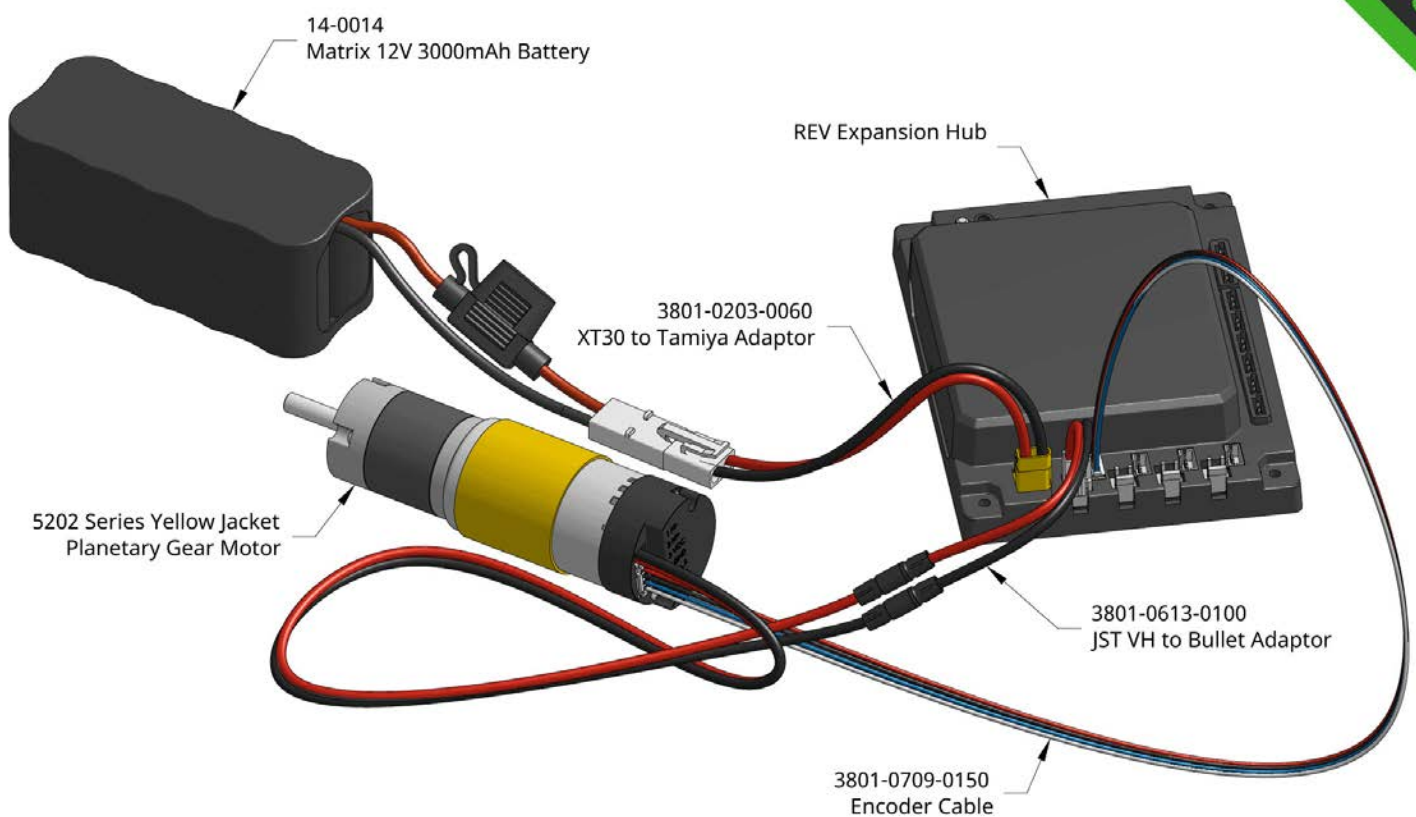
3801-0222-0060 Product Insight #1

The 3801-0222-0060 is a wiring adaptor which allows you to connect a male contact XT30 connector (like that found on the charger shown) to a female contact TJC8 connector (like that found on the battery shown).



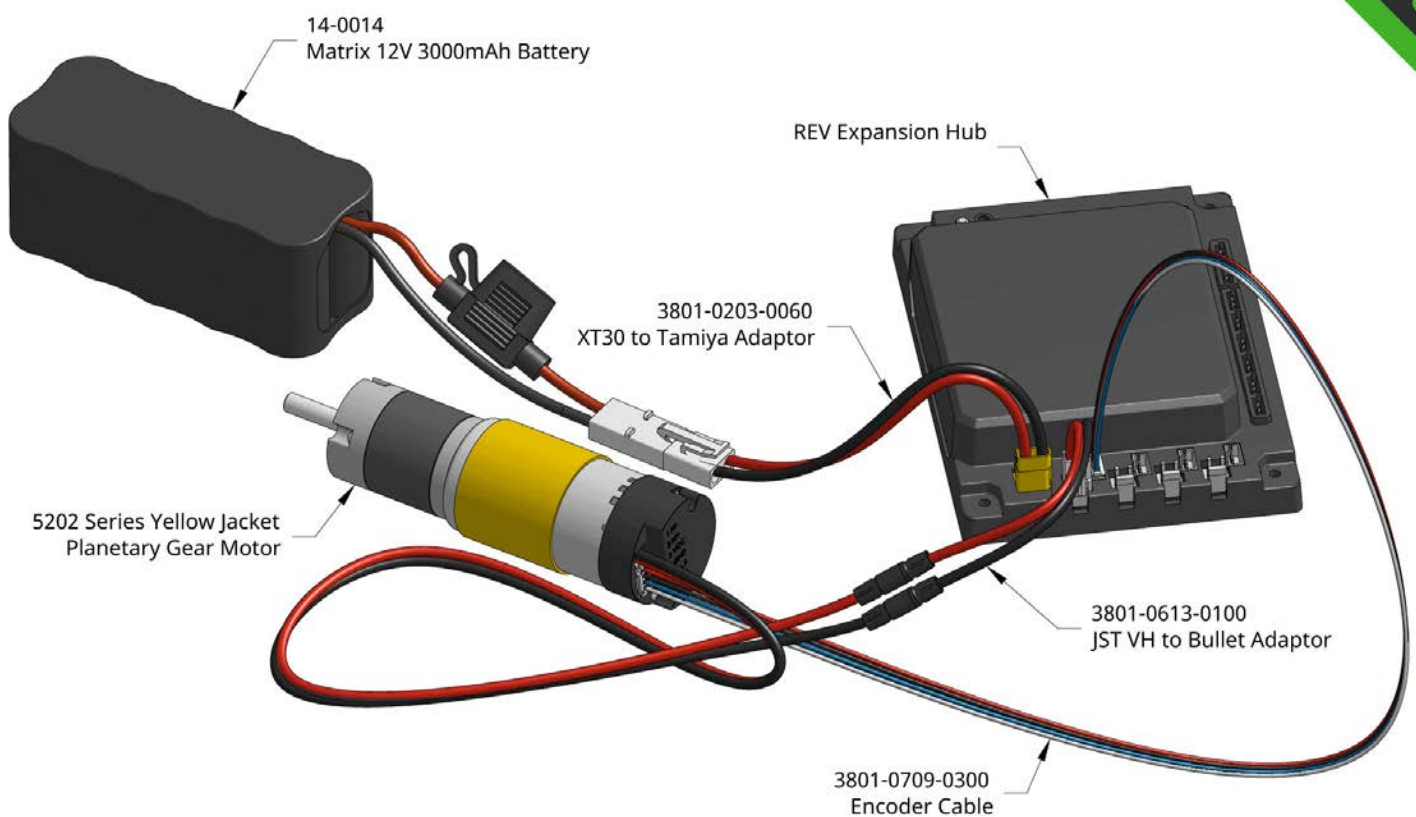
3801-0613-0100 Product Insight #1

The JST VH to Bullet Adaptor (3801-0613-0100) allows FTC teams to plug a Yellow Jacket Gear Motor into the commonly used REV Expansion Hub.



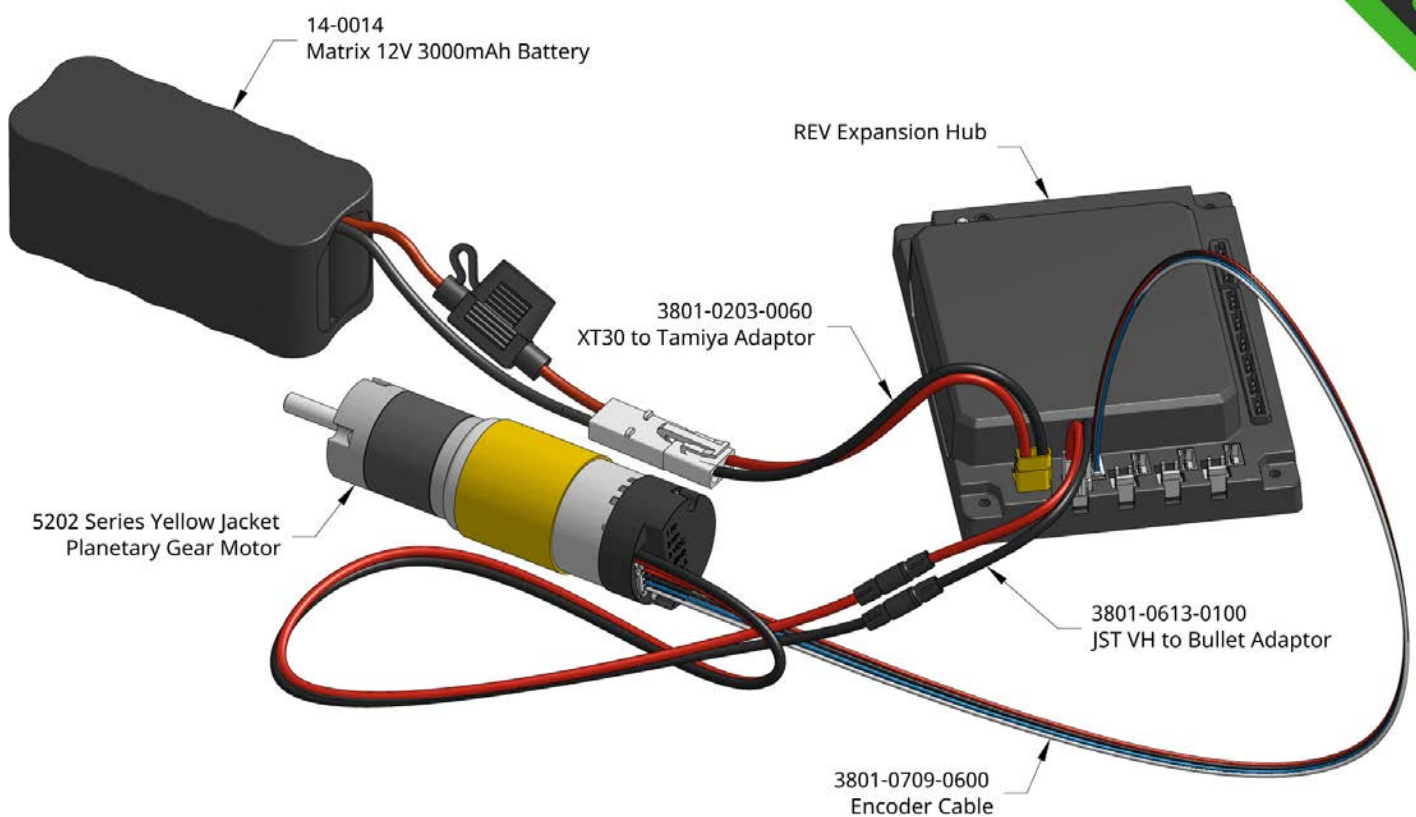
3801-0709-0150 Product Insight #1

The 3801-0709-0150 encoder cable allows FTC teams to plug the encoder of a Yellow Jacket Gear Motor into the commonly used REV Expansion Hub. The encoder is designed to work at 3.3-5V so no logic level converter is necessary.



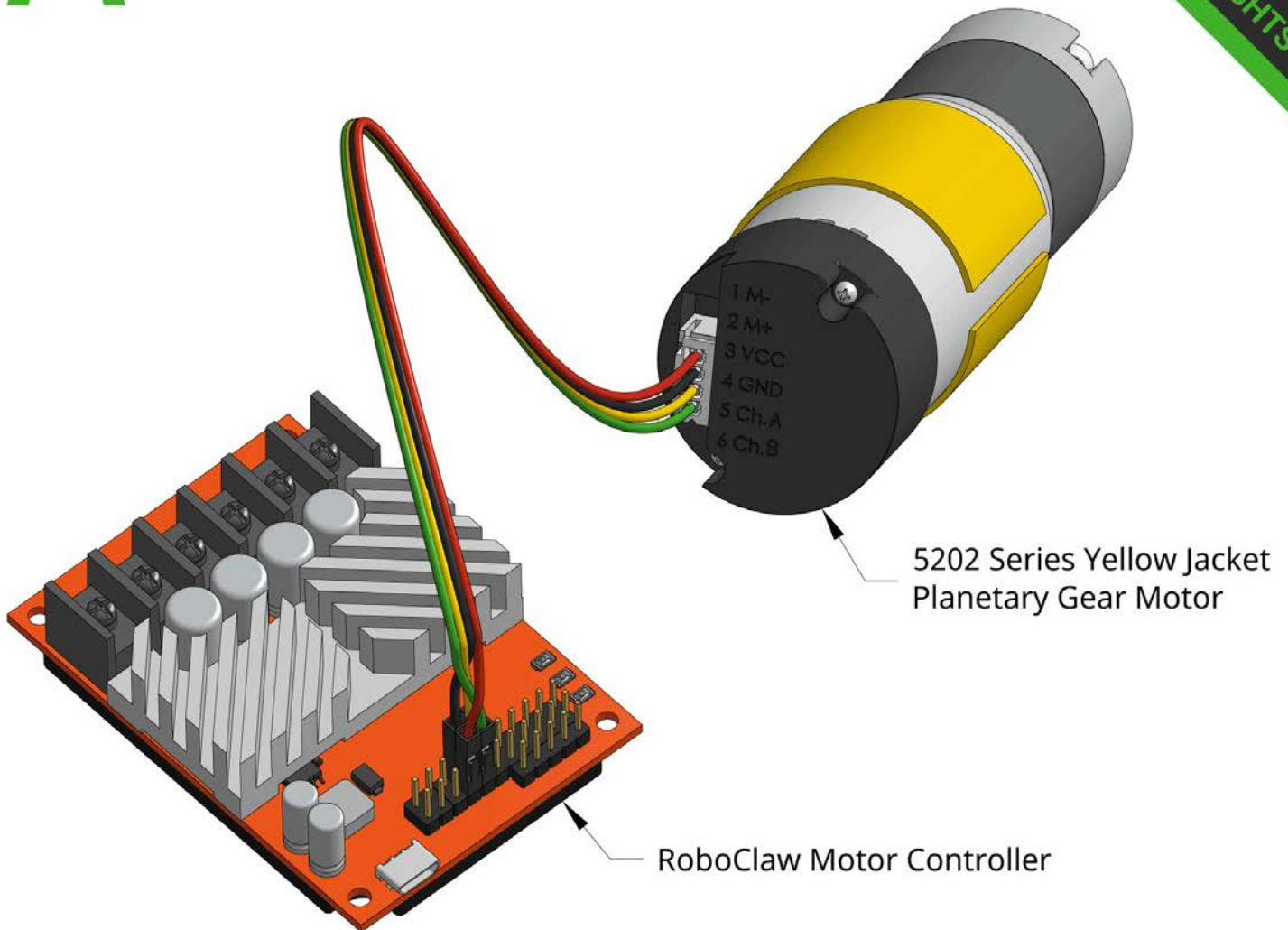
3801-0709-0300 Product Insight #1

The 3801-0709-0300 encoder cable allows FTC teams to plug the encoder of a Yellow Jacket Gear Motor into the commonly used REV Expansion Hub. The encoder is designed to work at 3.3-5V so no logic level converter is necessary.



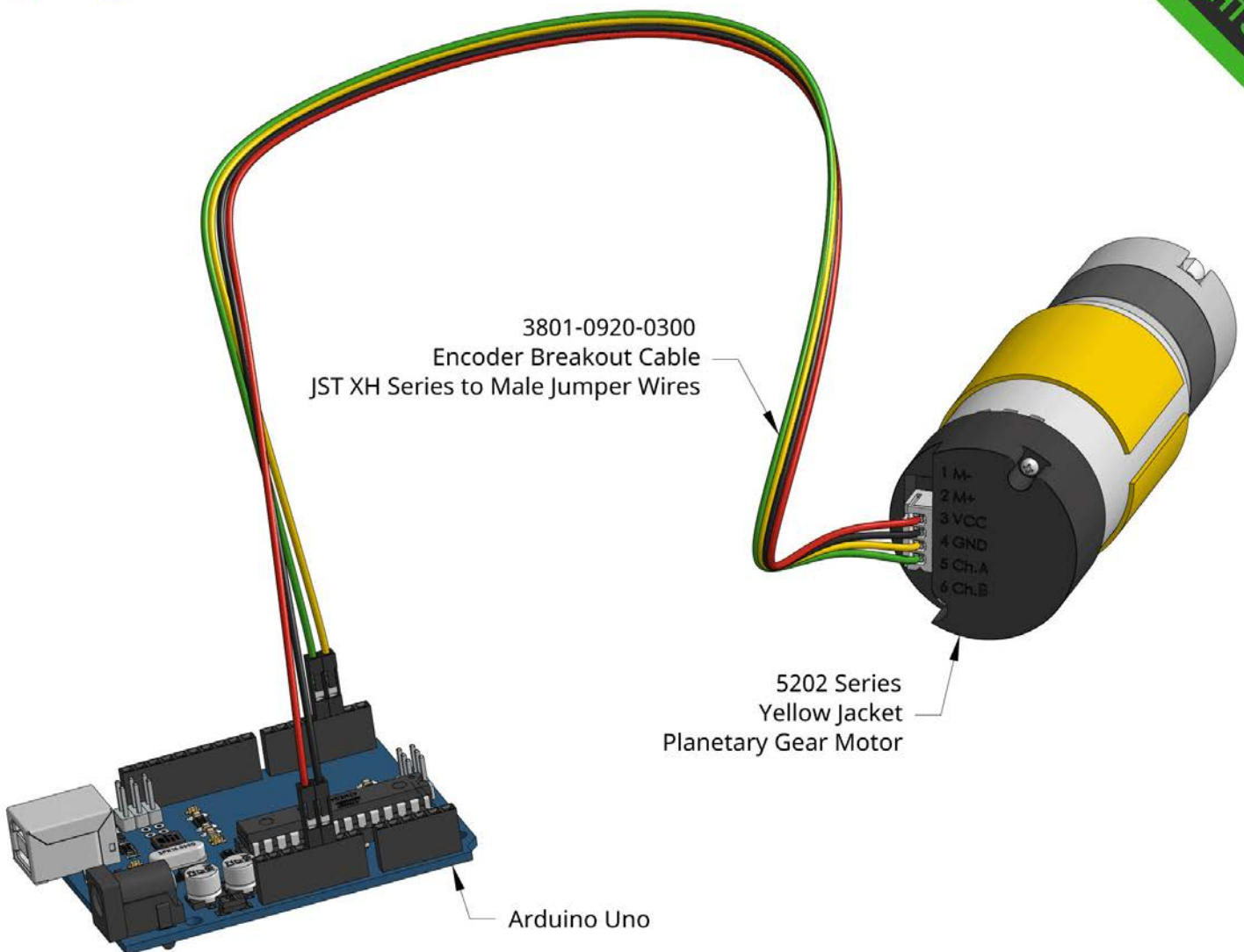
3801-0709-0600 Product Insight #1

The 3801-0709-0600 encoder cable allows FTC teams to plug the encoder of a Yellow Jacket Gear Motor into the commonly used REV Expansion Hub. The encoder is designed to work at 3.3-5V so no logic level converter is necessary.



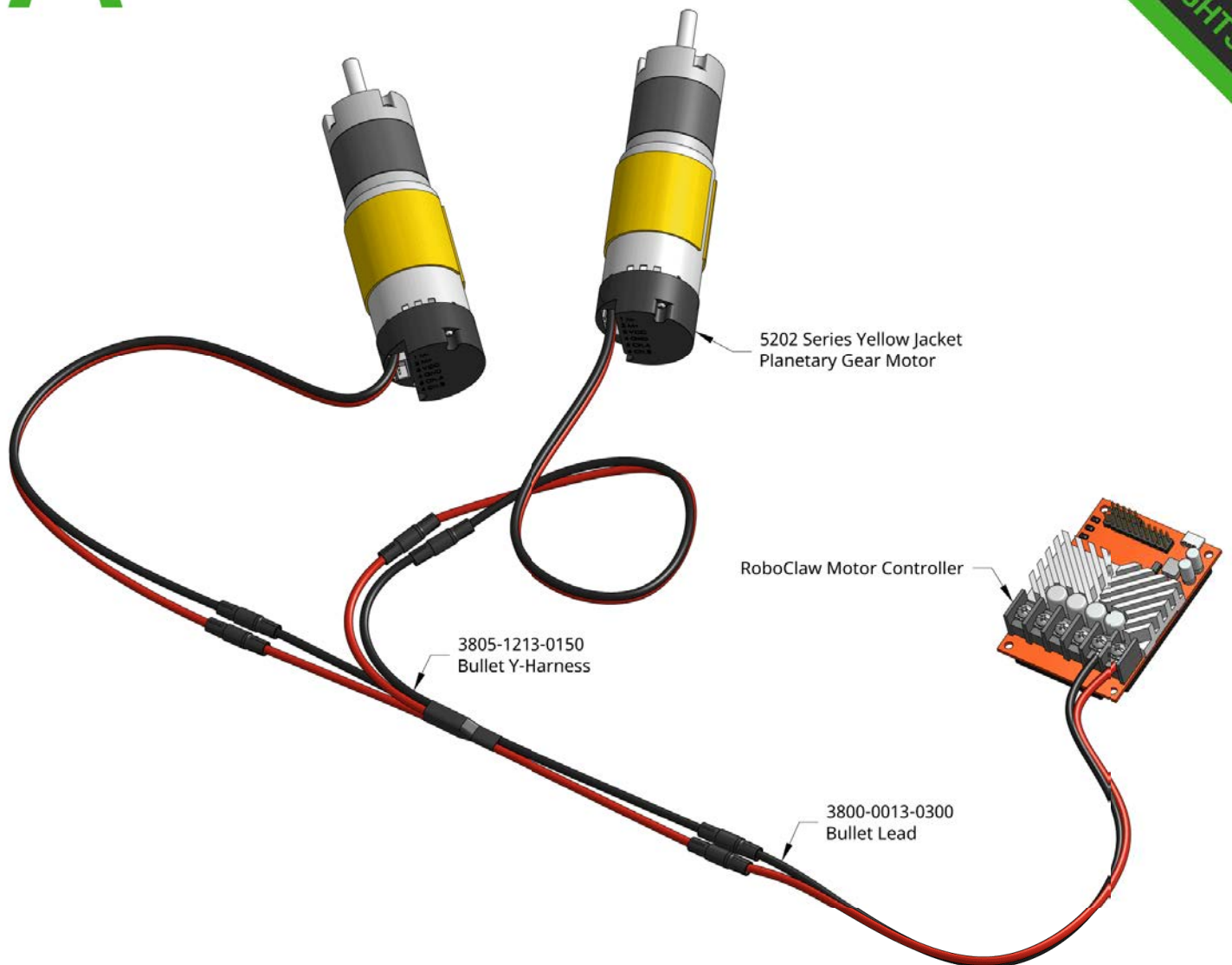
3801-0919-0300 Product Insight #1

This encoder breakout cable makes it easy to plug the encoders on our 5201 or 5202 series gear motors to your project. In this case it is going to a RoboClaw motor controller. The green and yellow wires go to the EN1 (or EN2) pins, and the red and black wires go to + and - pins.



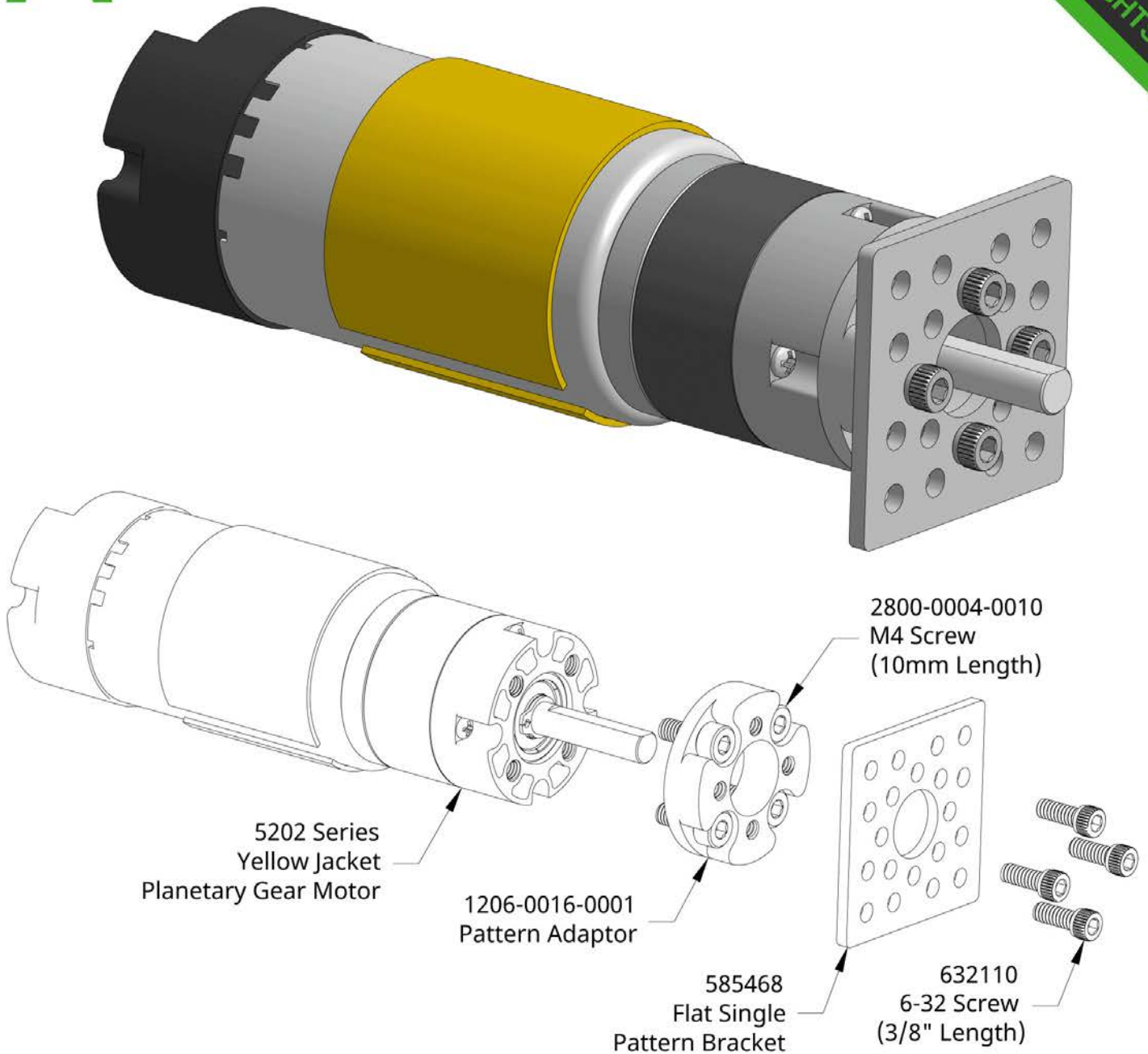
3801-0920-0300 Product Insight #1

The male jumper wire ends of this encoder breakout cable make it easy to connect an Arduino or other microcontroller to the encoder on our 5201 or 5202 Series gear motors. Those encoders are compatible with either 3.3V or 5V boards. Note that you will want to connect channels A & B to interrupt capable pins. On the Arduino Uno, they are digital pins 2 & 3.



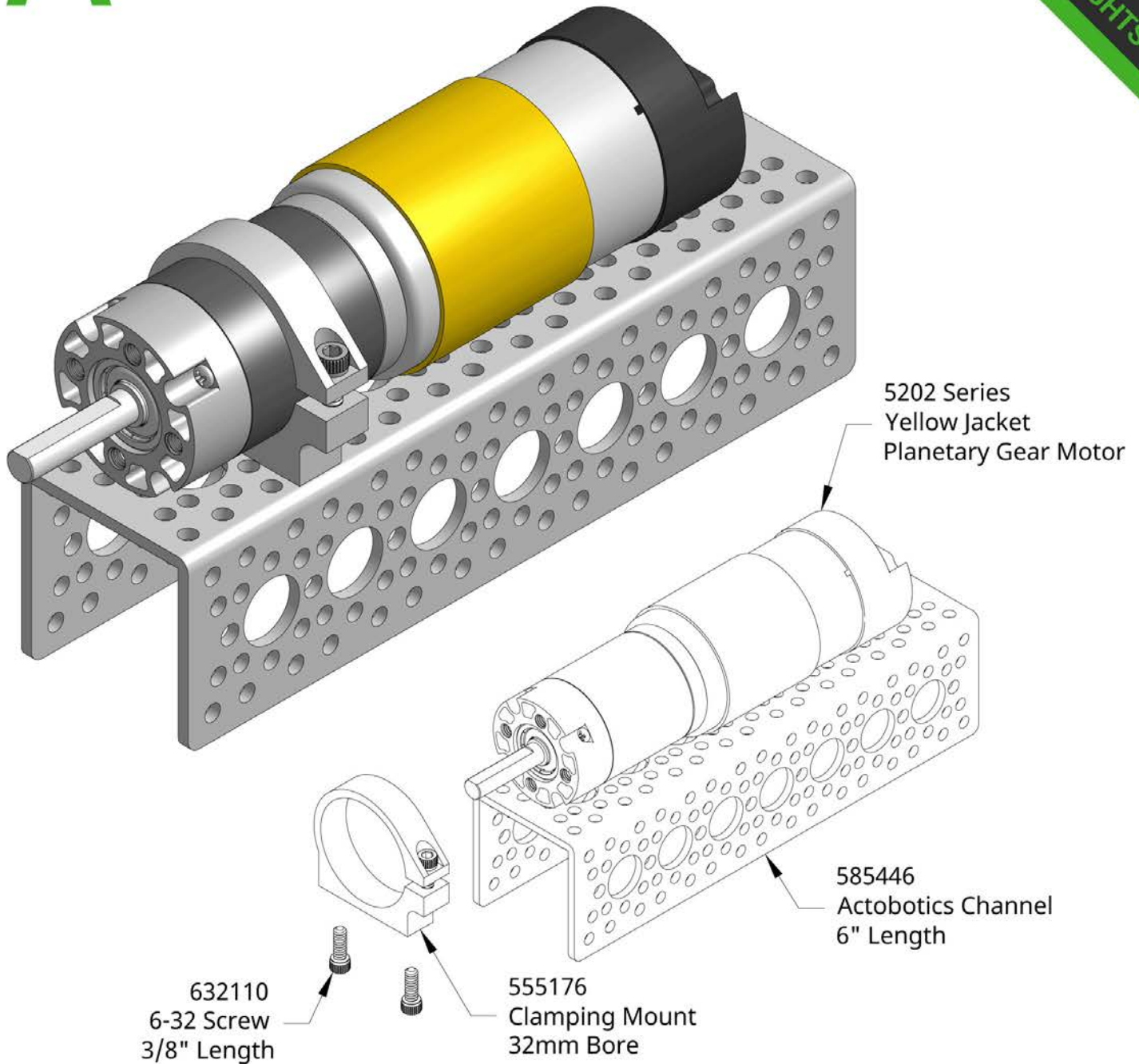
3805-1213-0150 Product Insight #1

The 3805-1213-0150 Bullet Y-Harness makes it easy to drive two motors from one motor controller channel.



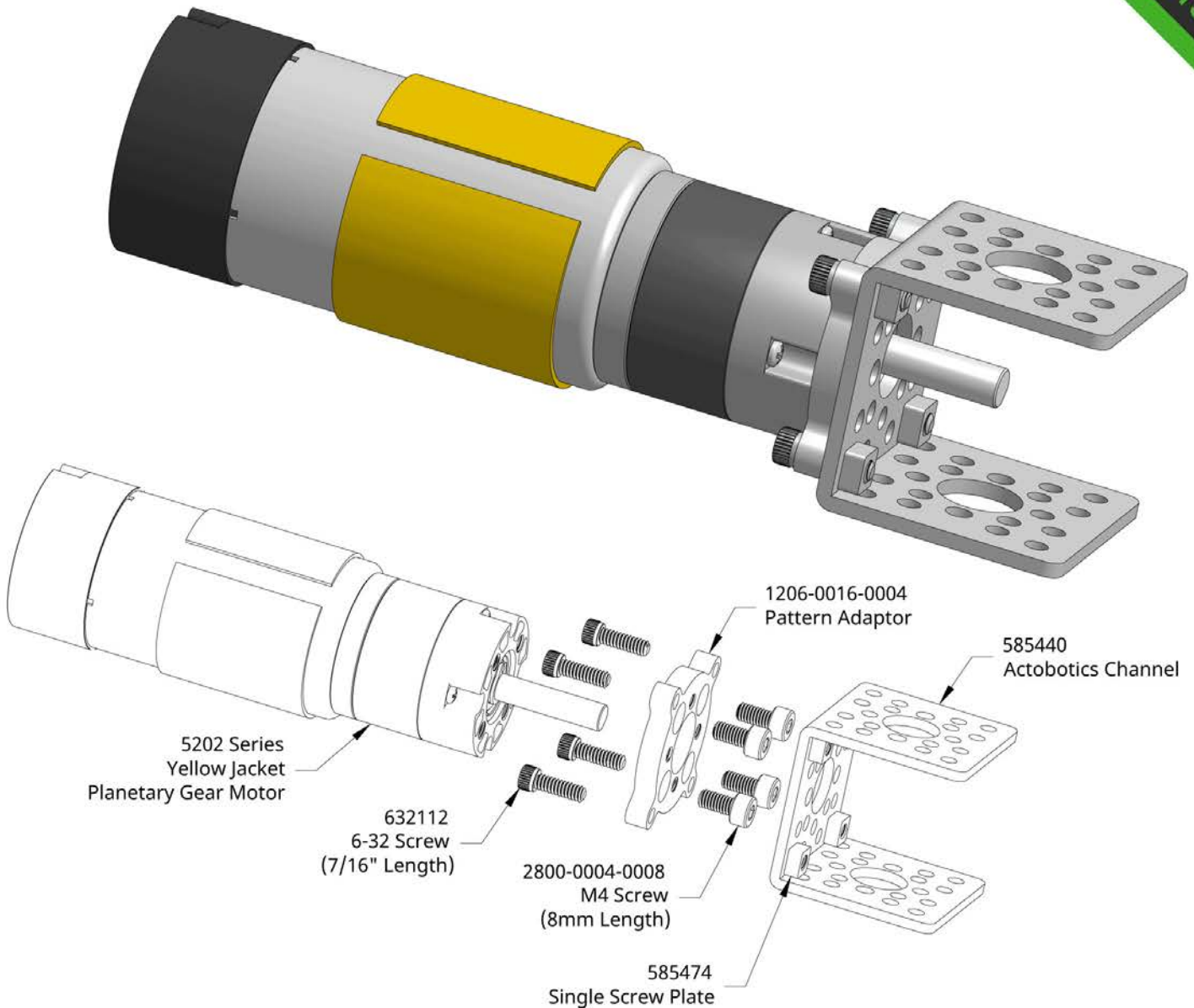
5202 Series Product Insight #1

The 5202 Series of Yellow Jacket Planetary Gear Motors can be adapted from their native goBILDA® 16mm grid pattern to the Actobotics® 0.770" pattern with a 1206-0016-0001 Pattern Adaptor. In the assembly shown, the adaptor connects the motor to a Flat Single Pattern Bracket, however, this method of attachment will work for any Actobotics part which has a 0.770" thru-hole pattern.



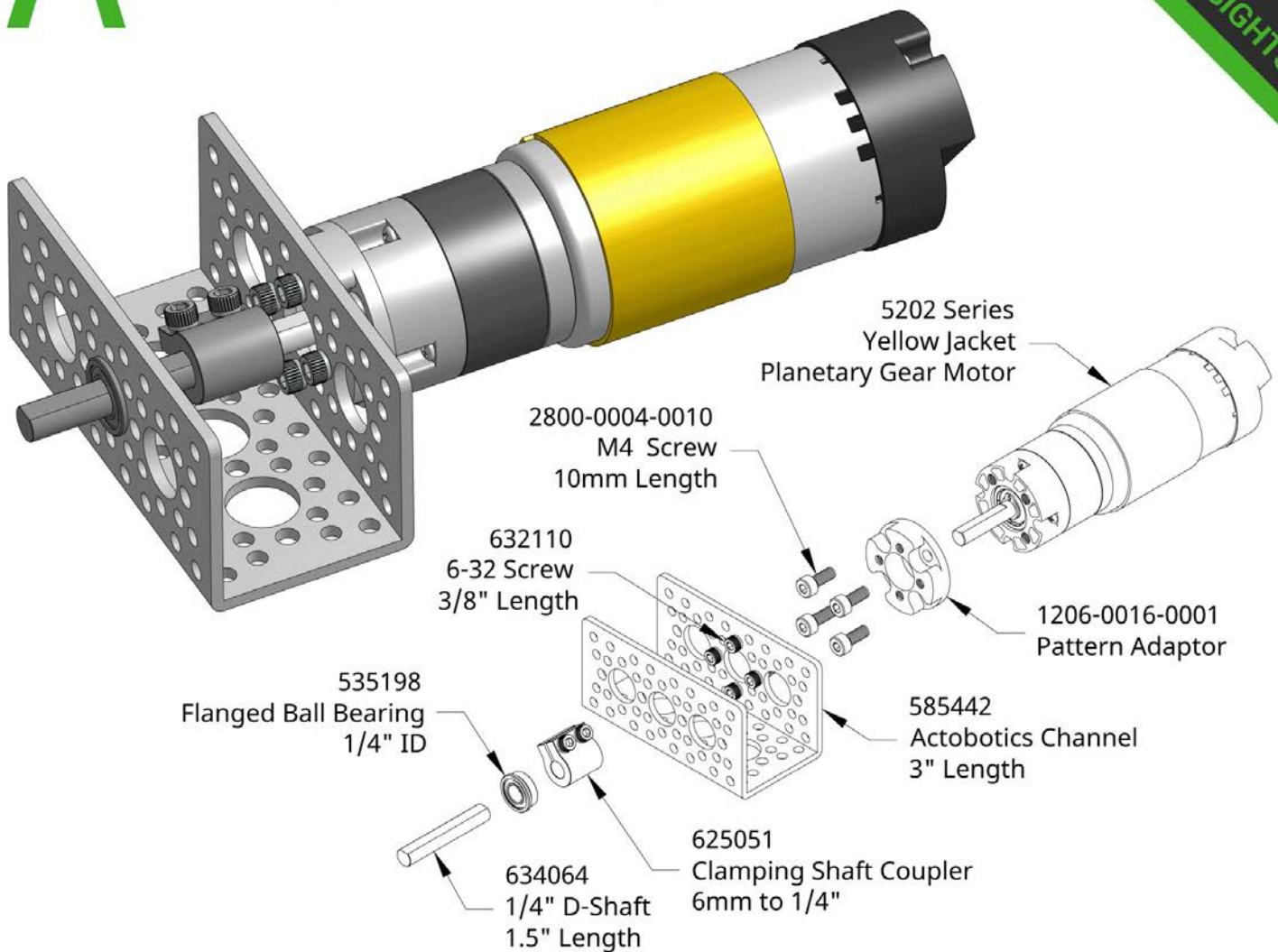
5202 Series Product Insight #2

The goBILDA® 5202 Series Planetary Gear Motors can be securely clamped to any part with the 1.5" Actobotics® pattern using a clamping mount such as the 555176. This allows you to adjust the motor axially so that gears and other drive mechanisms can be easily aligned. In high demand applications, two clamping mounts can be used on the gearbox for added strength.



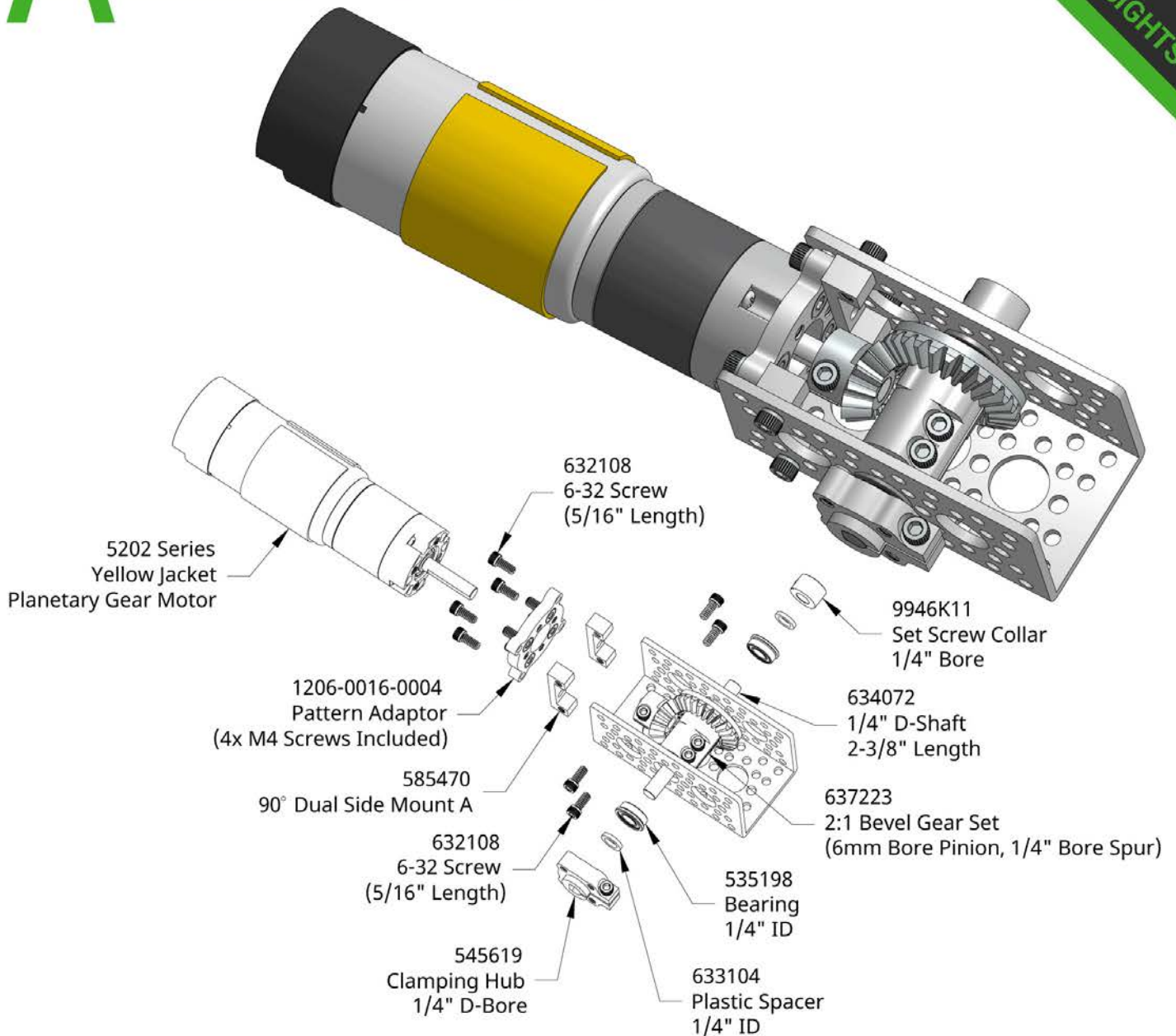
5202 Series Product Insight #3

The 5202 Series of Yellow Jacket Planetary Gear Motors can be adapted from their native goBILDA® 16mm grid pattern to the Actobotics® 1.500" pattern with a 1206-0016-0004 Pattern Adaptor. In the assembly shown, the adaptor connects the motor to a 1.5" Aluminum Channel, however, this method of attachment will work for any part with the 1.500" Actobotics pattern.



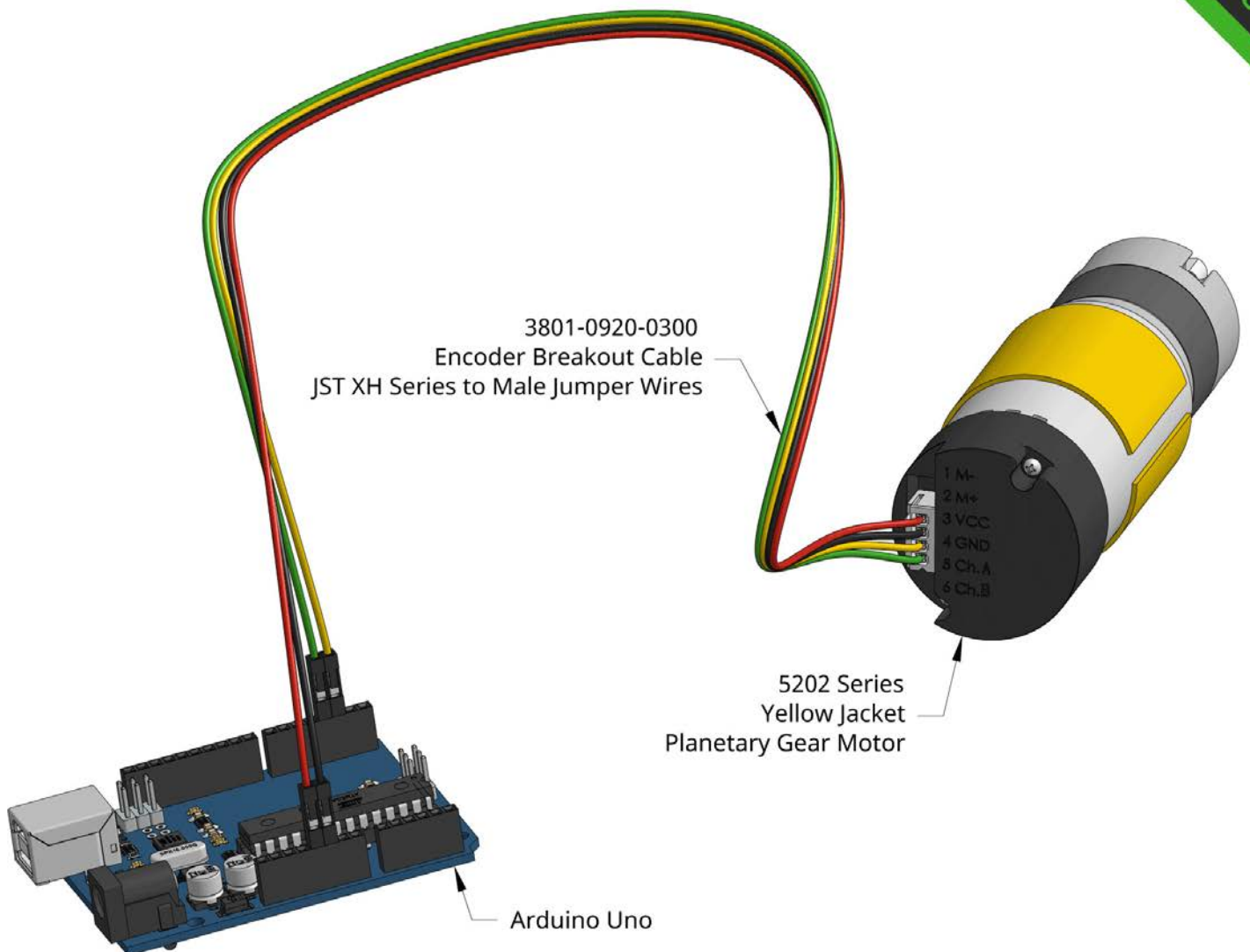
5202 Series Product Insight #4

The 5202 Series Yellow Jacket Planetary Gear Motors can be adapted from their native goBILDA® 16mm pattern to the Actobotics® 0.770" pattern with a 1206-116-0001 Pattern Adaptor. In the assembly shown, the adaptor connects the motor to Actobotics Channel. However, this method of attachment will work with any component that contains the Actobotics 0.770" thru-hole pattern.



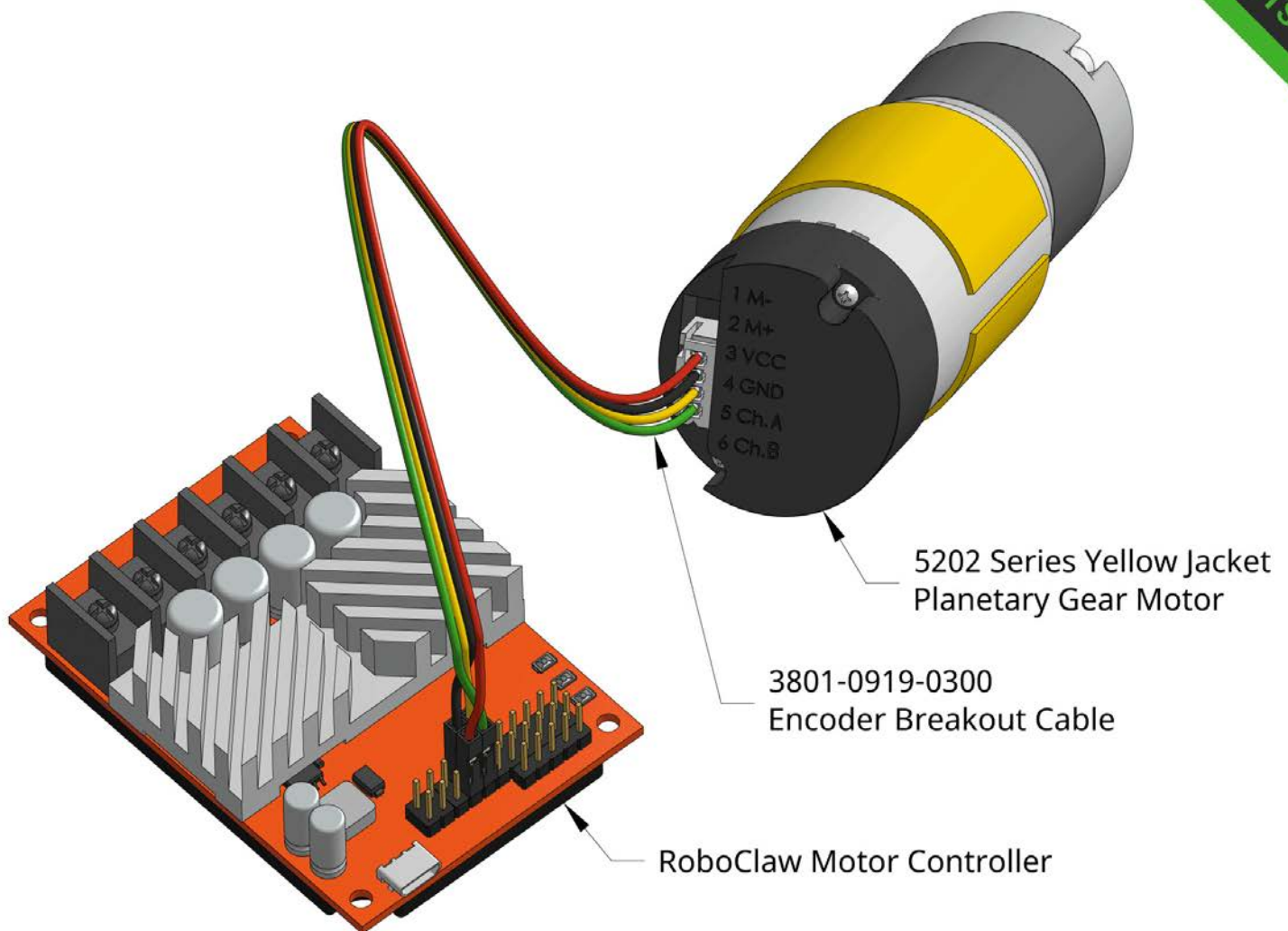
5202 Series Product Insight #5

The 5202 Series of Yellow Jacket Planetary Gear Motors can be adapted from their native goBILDA® 16mm grid pattern to the Actobotics® 1.500" pattern with a 1206-0016-0004 Pattern Adaptor. When this adaptor is paired with Dual Side Mounts in the end of Actobotics Channel, a Yellow Jacket's shaft extends the perfect amount to maximize contact on a 6mm bore bevel gear pinion.



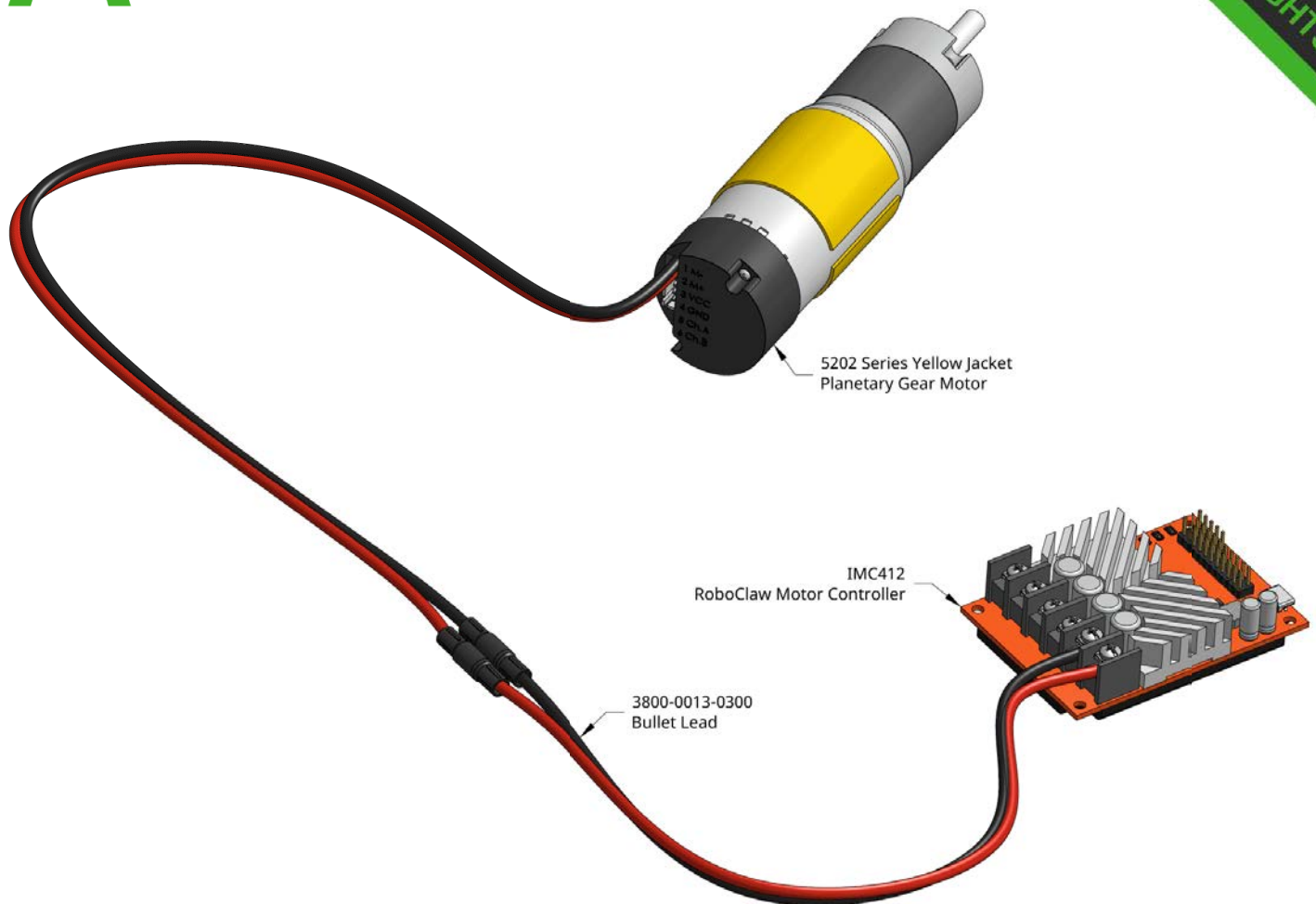
5202 Series Product Insight #6

The encoders on goBILDA® 5202 Series Yellow Jackets are compatible with either 3.3V or 5V boards. The male jumper wire ends of the encoder breakout cable shown make it easy to connect the two. Note that you will want to connect channels A & B to interrupt capable pins. On the Arduino Uno, they are digital pins 2 & 3.



5202 Series Product Insight #7

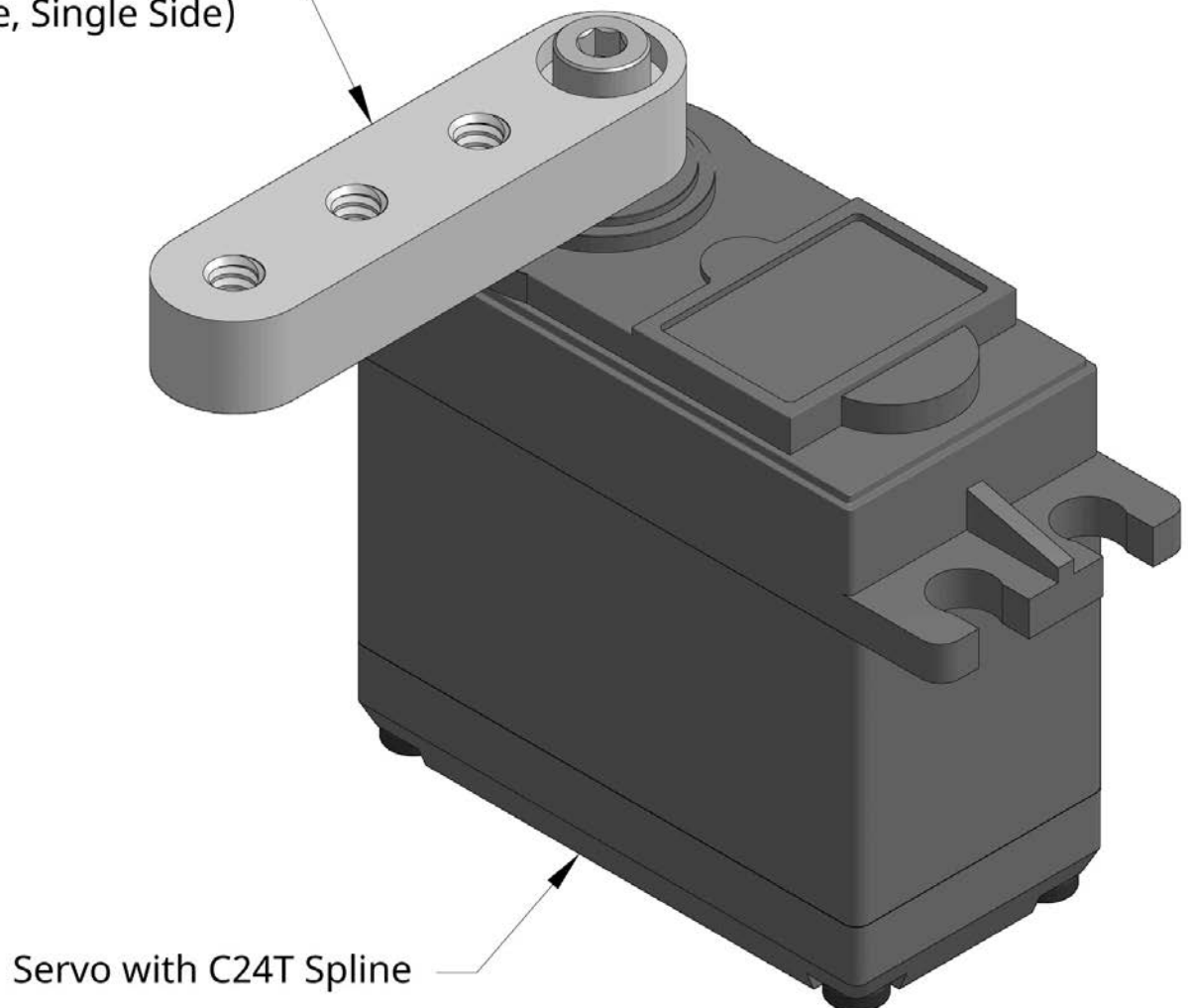
The encoder breakout cable shown makes it easy to plug the encoders on goBILDA® 5202 Series Yellow Jackets to your project. In this case, it is going to a RoboClaw motor controller. The green and yellow wires go to the EN1 (or EN2) pins, and the red and black wires go to + and - pins.



5202 Series Product Insight #8

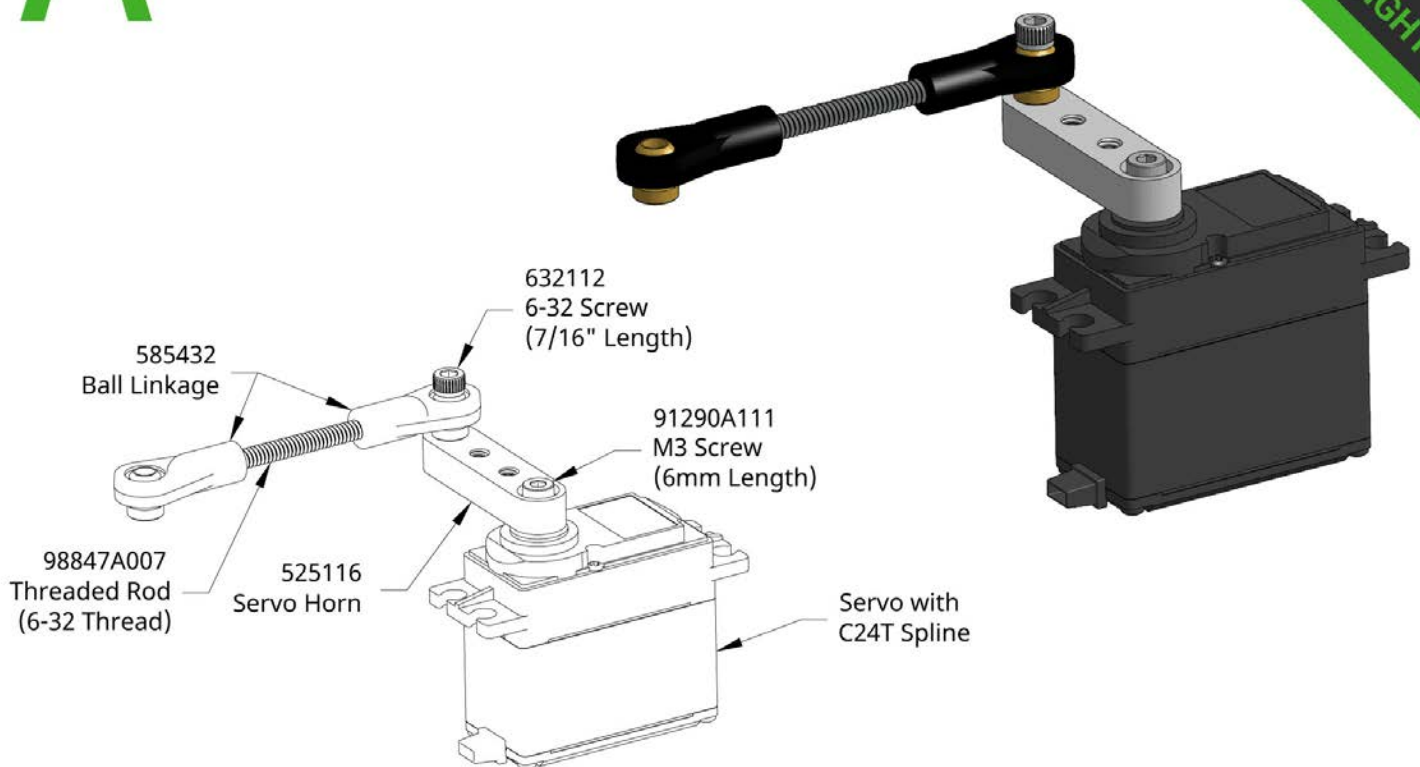
The goBILDA 5202 Series Yellow Jackets have bullet connectors while many motor controllers have screw terminals. A bullet lead (3800-0013-0300) allows you to connect the two without cutting the connectors off. Having the bullets in between the motor and controller makes swapping motors, swapping polarity, and rerouting wires very easy.

525116
Actobotics Servo Arm
(C24T Spline, Single Side)



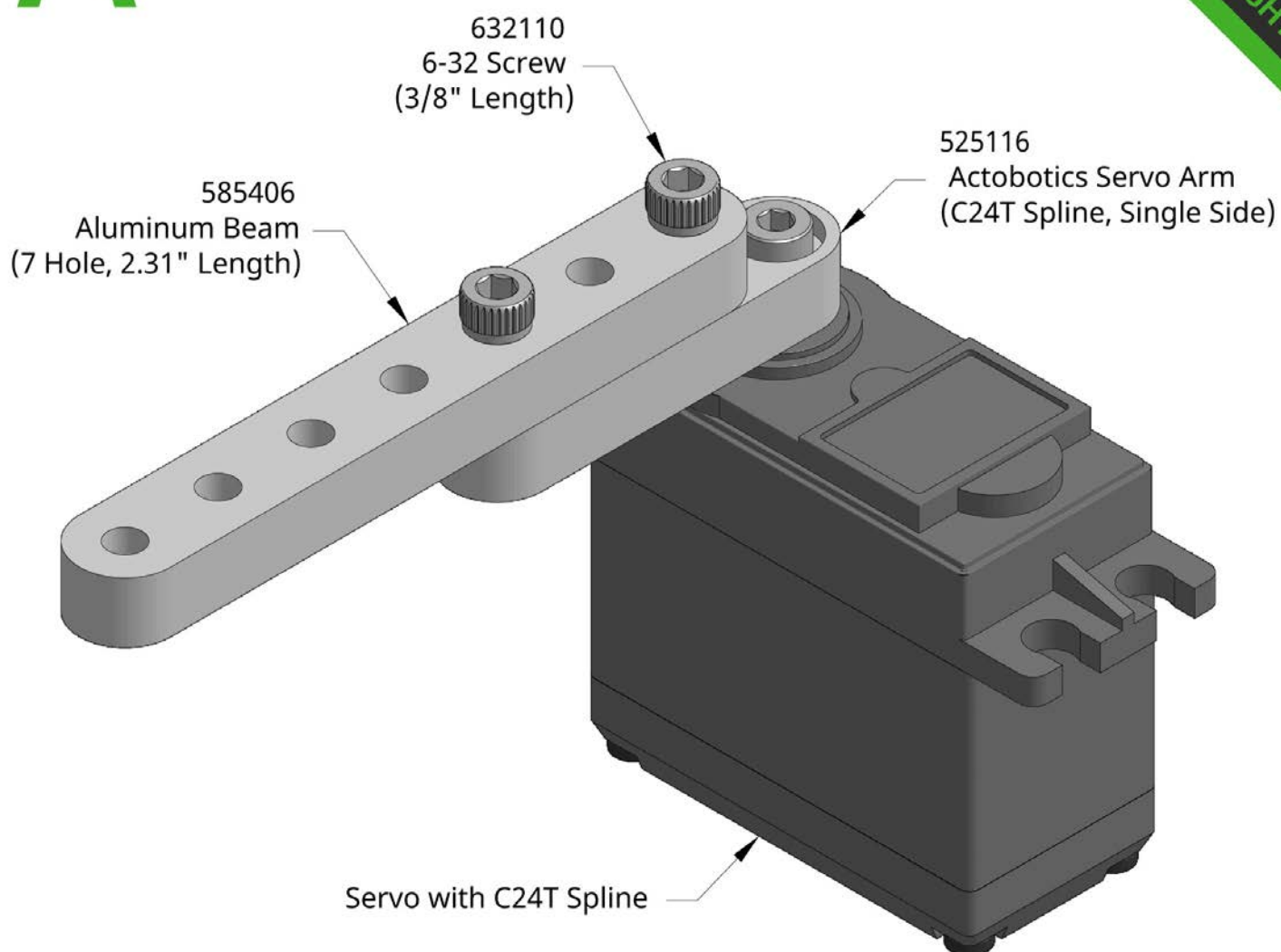
525116 Product Insight #1

The 525116 utilizes tapped holes for mounting items directly to it with a 6-32 screw.



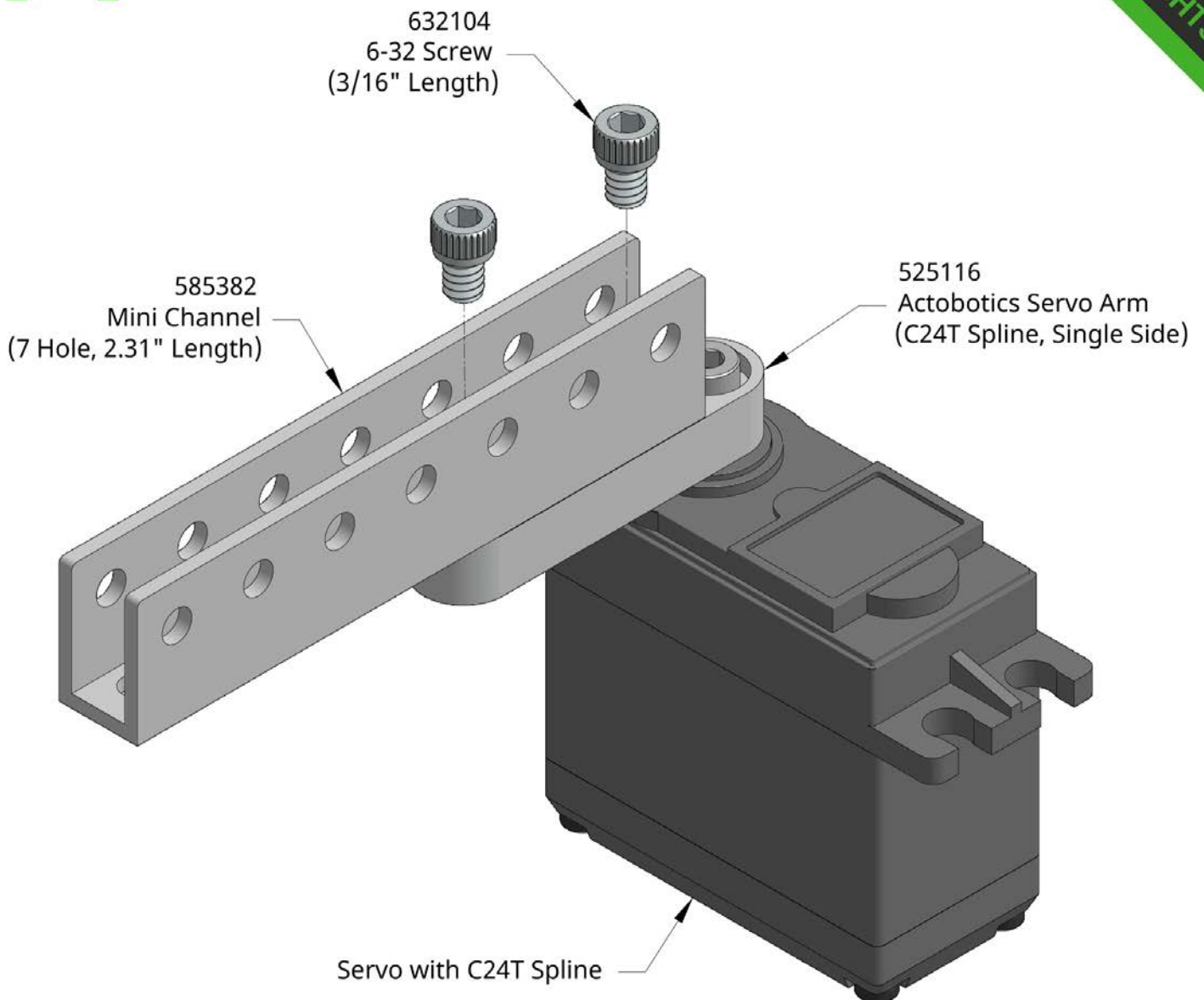
525116 Product Insight #2

With ball linkages, the movement of the servo arm can be used to control a variety of actuations. This also allows the servo to be positioned further away from the place of movement.



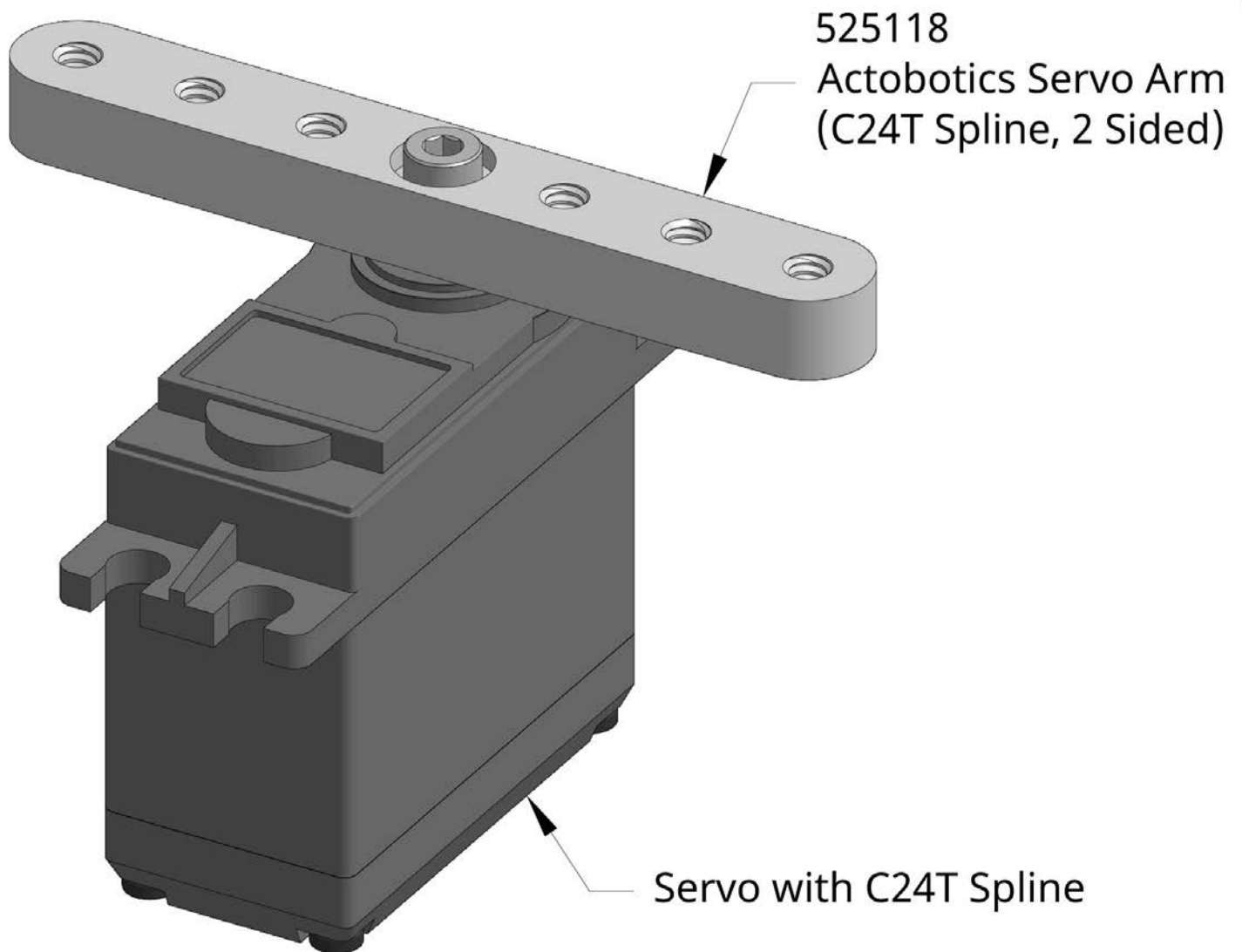
525116 Product Insight #3

The 525116 allows Aluminum Beams to easily bolt down to extend a servos reach.



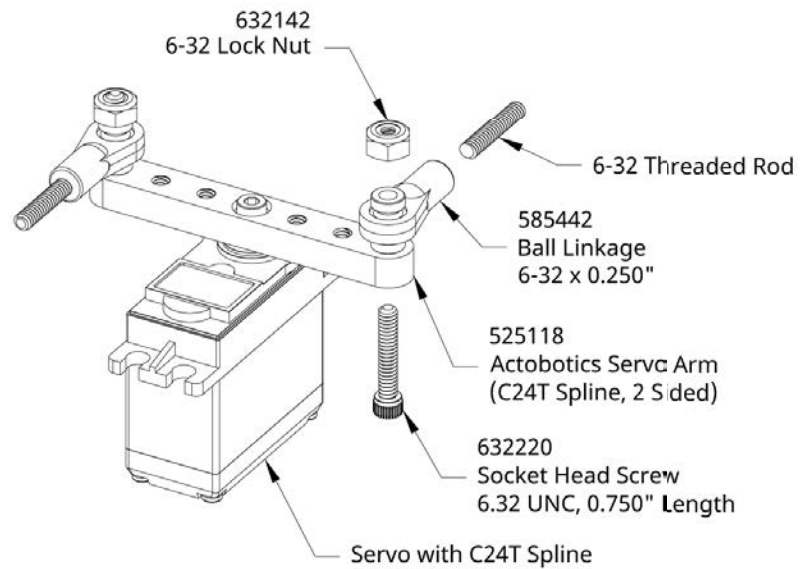
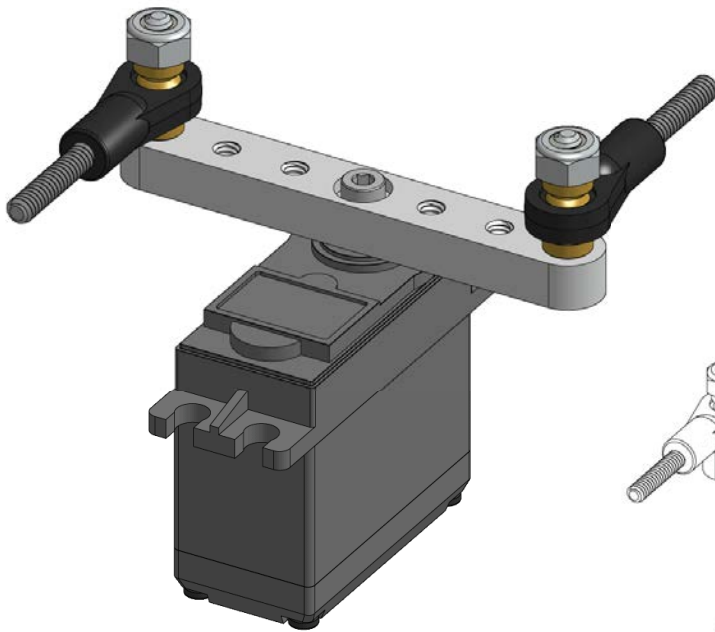
525116 Product Insight #4

The 525116 allows Mini Channel to easily bolt down which can extend a servos reach.



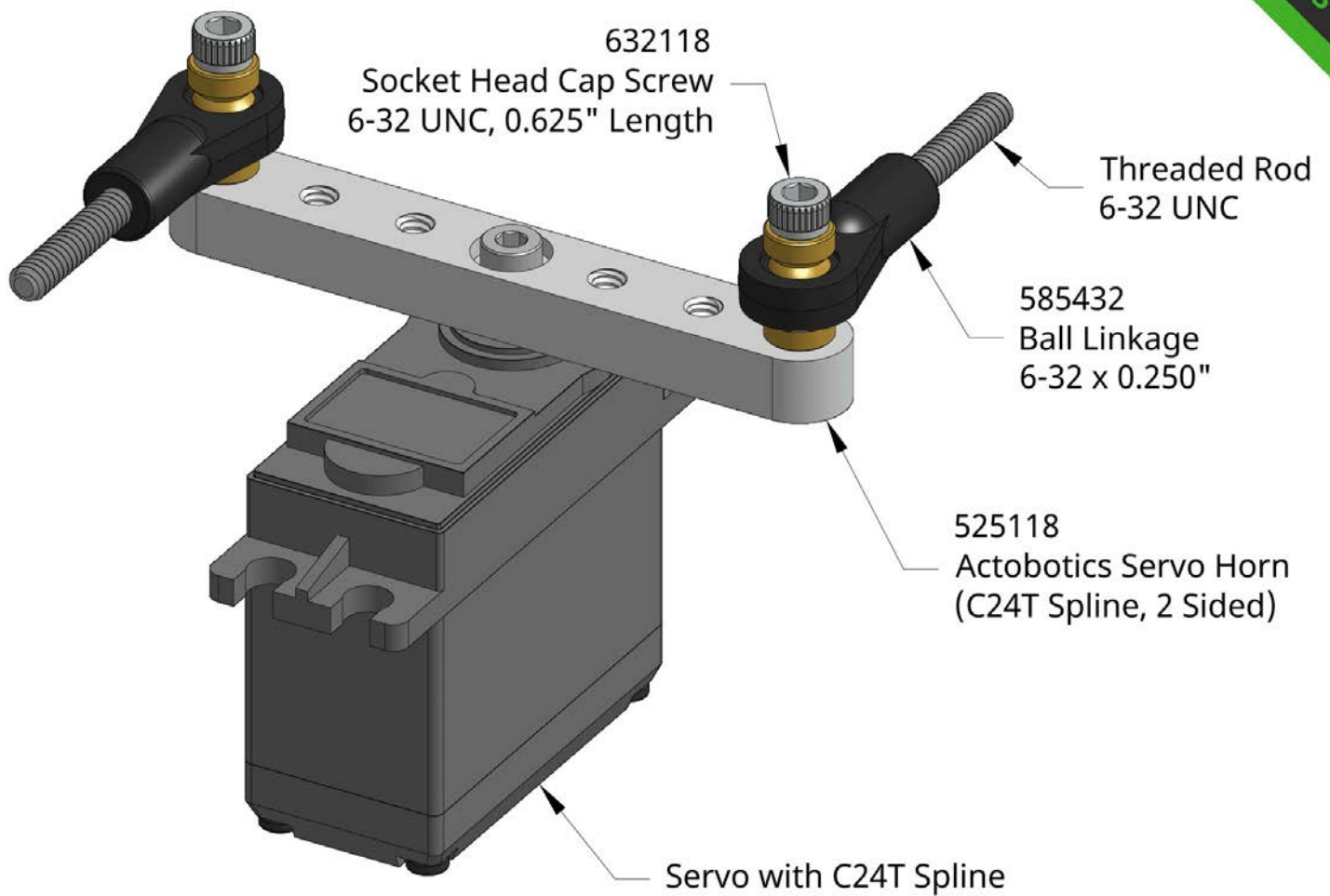
525118 Product Insight #1

The 525118 servo horn utilizes tapped holes so parts can easily be bolted down with 6-32 Screws.



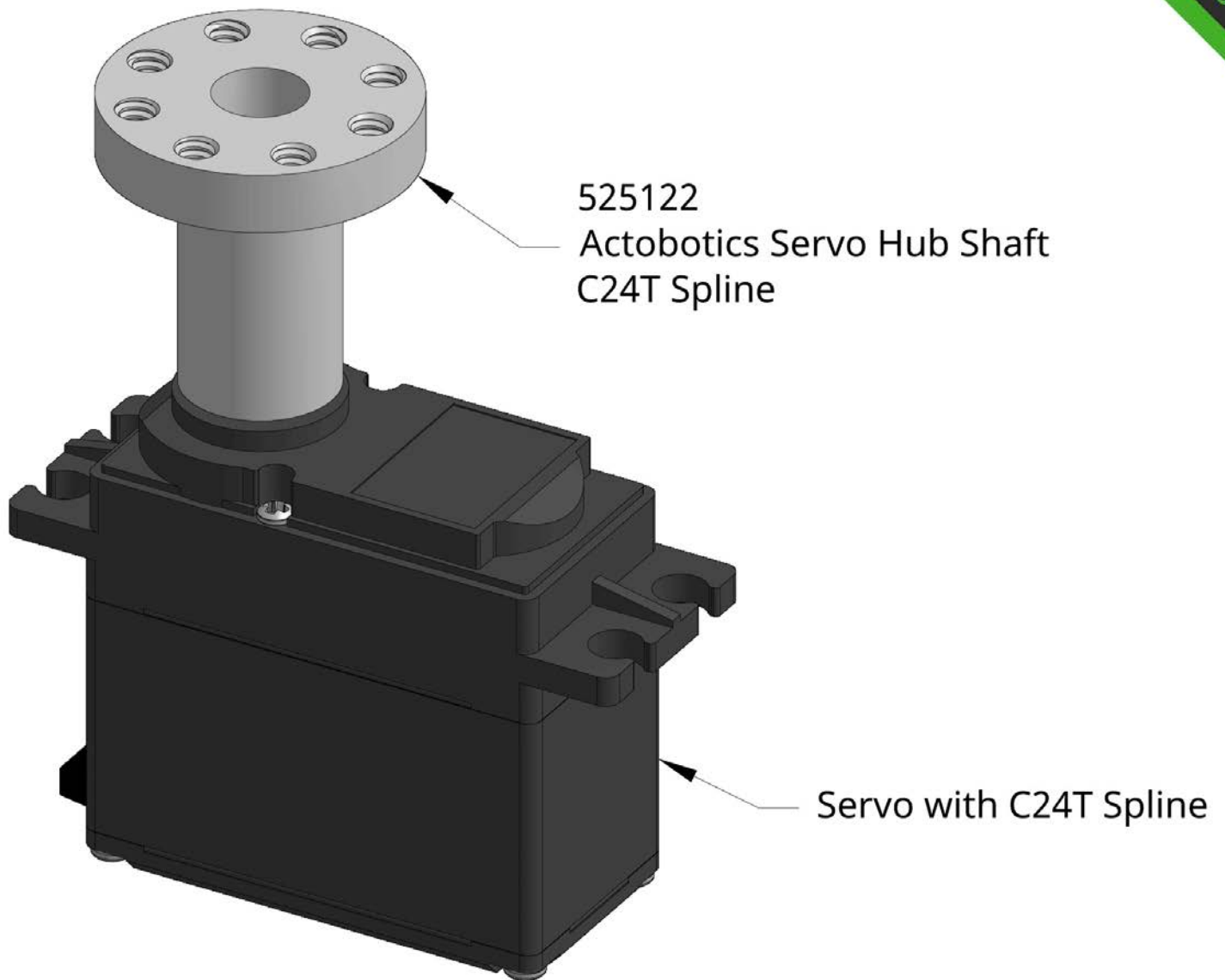
525118 Product Insight #2

When ball a linkage is bolted down to both sides of the 525118 two objects can be moved into opposite directions of one another. If a locknut is needed a 6-32 screw can be threaded into the bottom of the horn and used as a stud for the ball linkage and locknut.



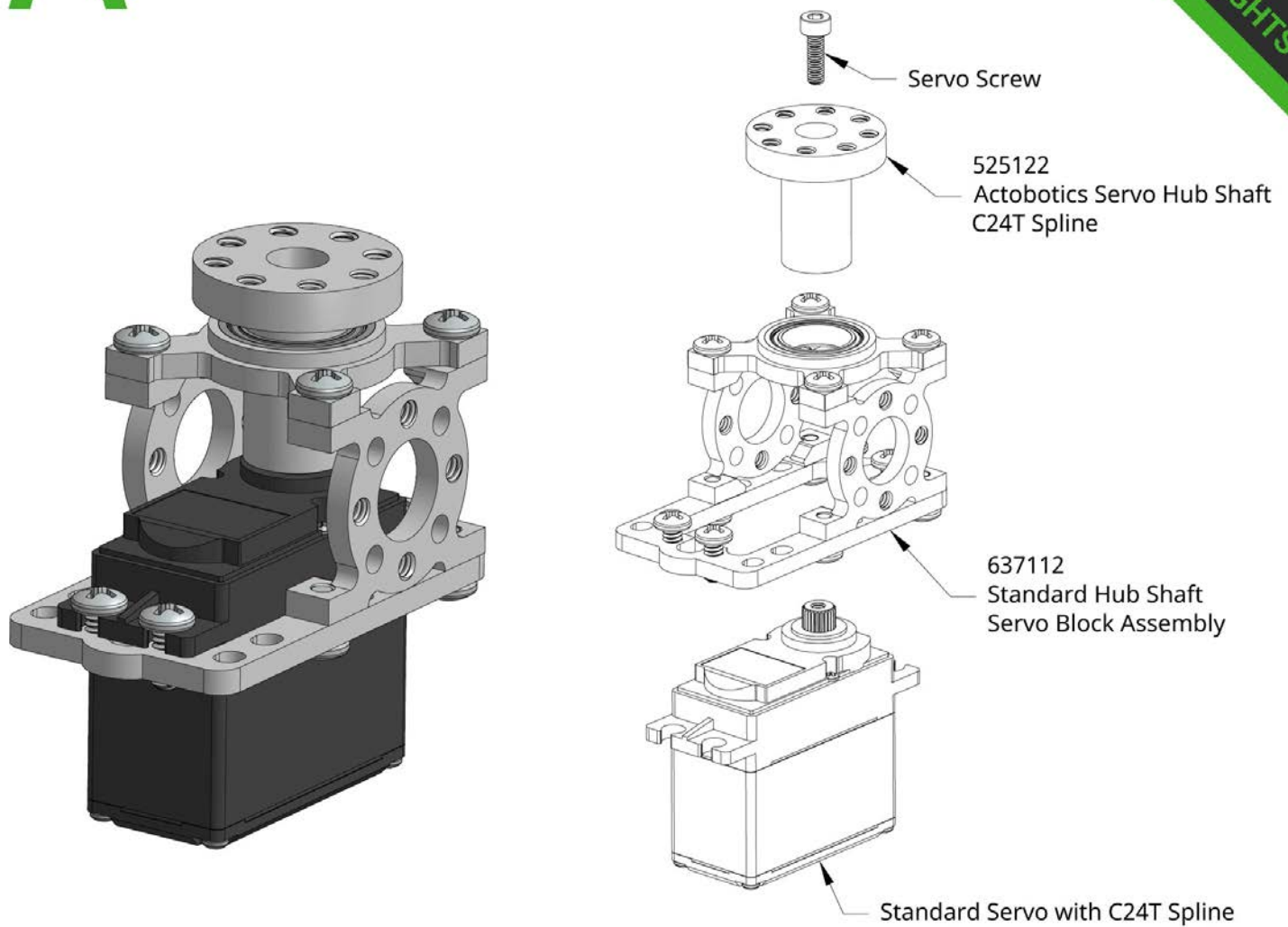
525118 Product Insight #3

When ball a linkage is bolted down to both sides of the 525118, two objects can be moved into opposite directions of one another.



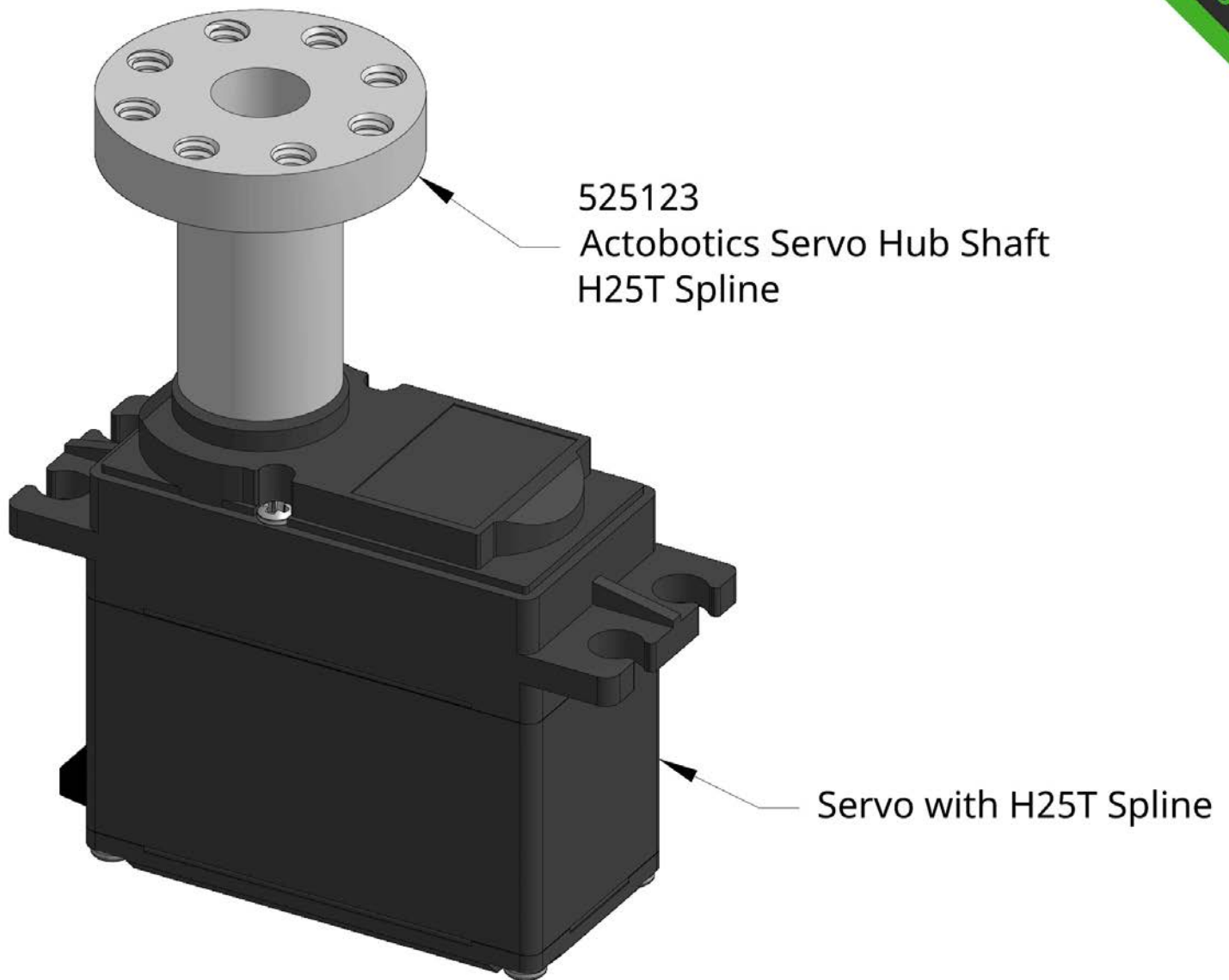
525122 Product Insight #1

The 525122 Actobotics Servo Hub Shaft can be mounted to any servo with a C24T Spline using the servo screw to secure it in place.



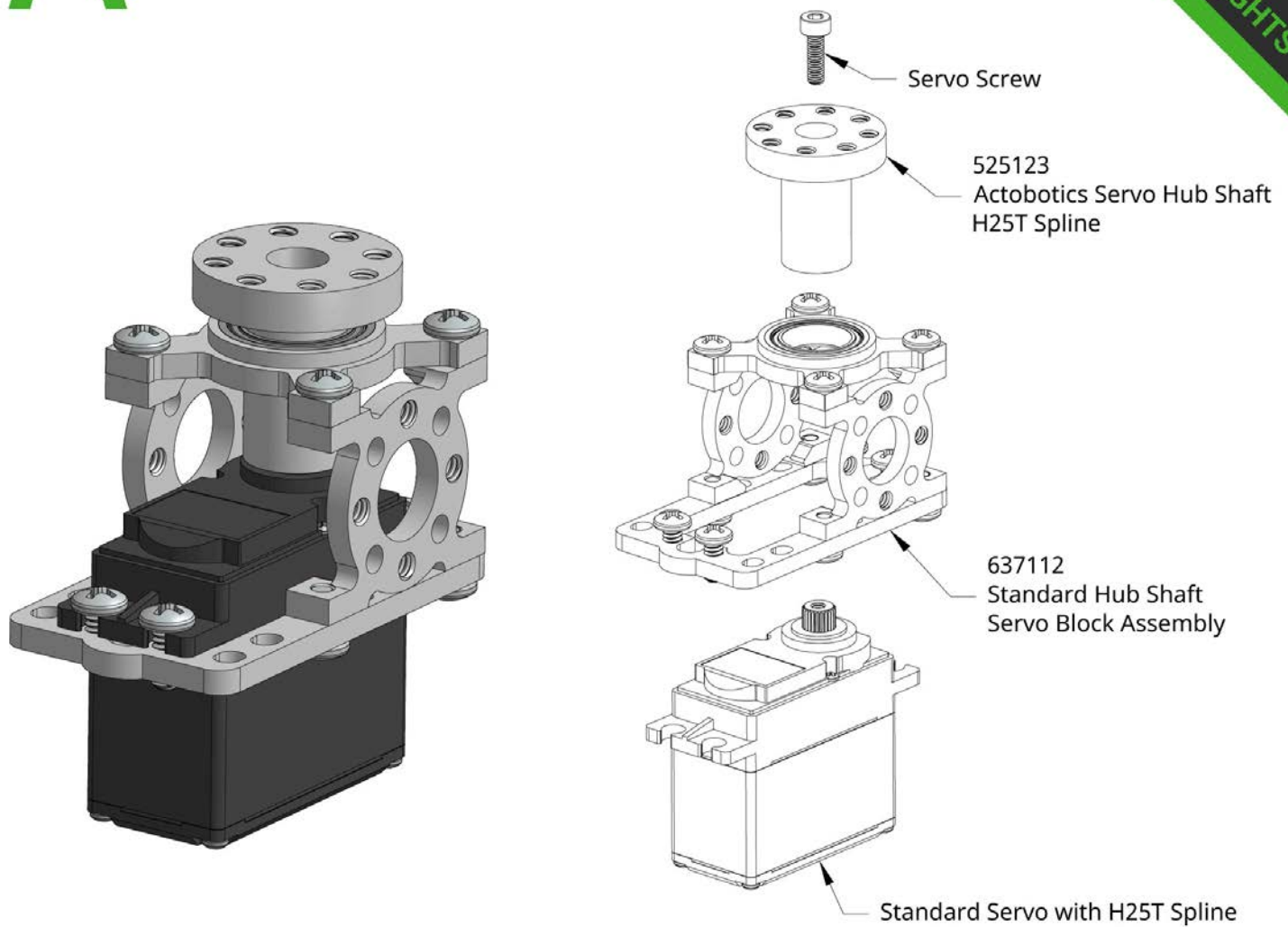
525122 Product Insight #2

The Actobotics Servo Hub Shaft can be used with a servo block allowing parts with the Actobotics pattern to easily be mounted.



525123 Product Insight #1

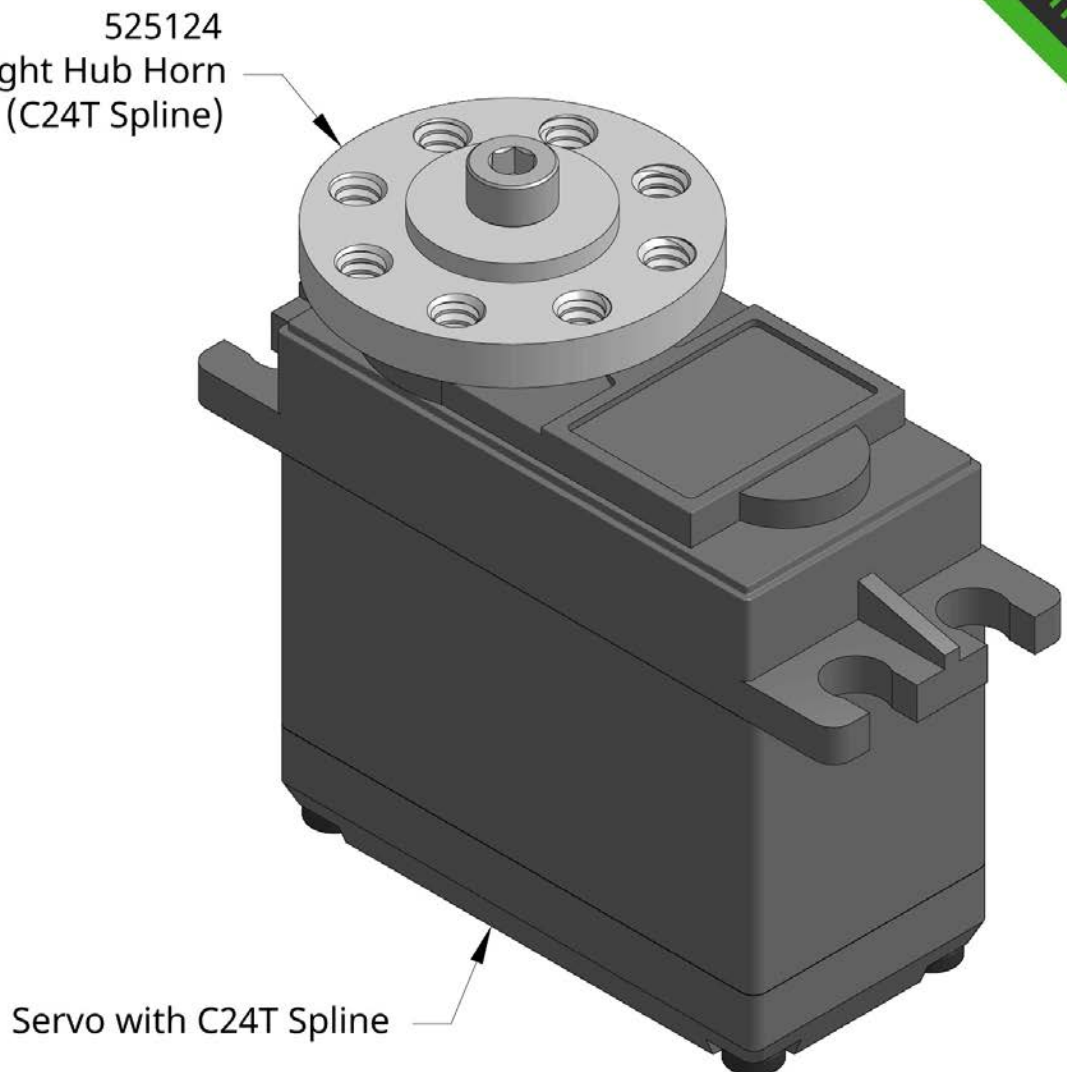
The 525123 Actobotics Servo Hub Shaft can be mounted to any servo with a H25T Spline using the servo screw to secure it in place.



525123 Product Insight #2

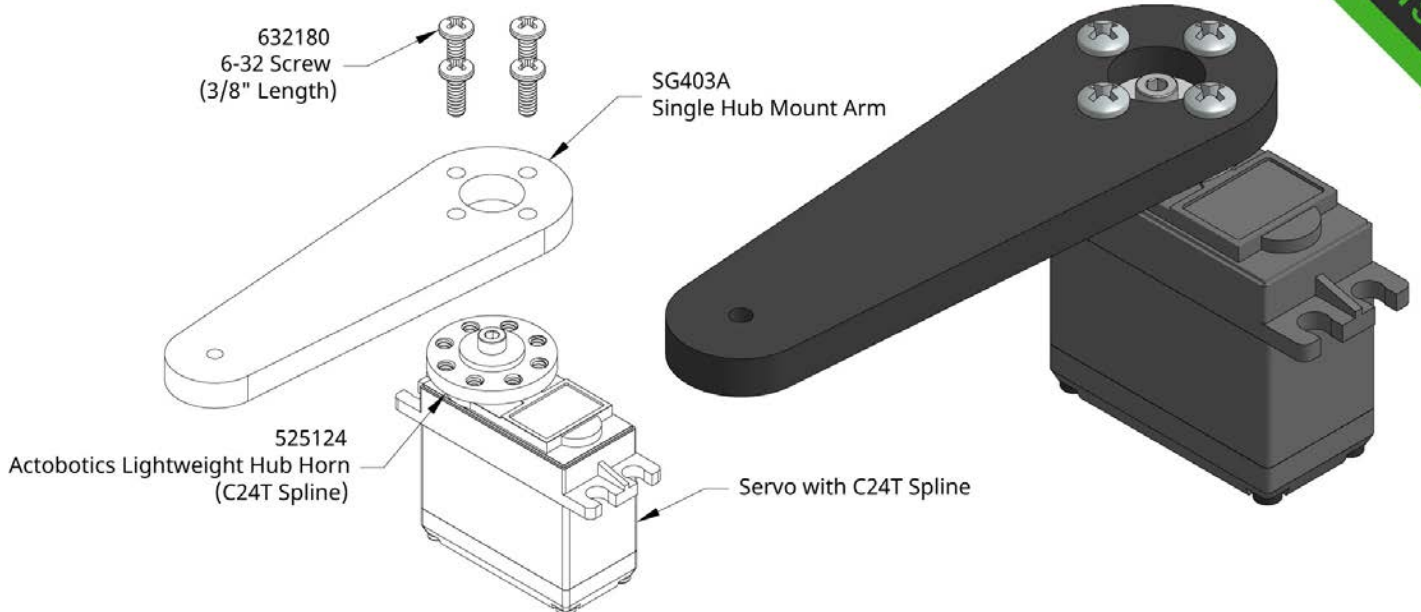
The Actobotics Servo Hub Shaft can be used with a servo block allowing parts with the Actobotics pattern to easily be mounted.

525124
Actobotics Lightweight Hub Horn
(C24T Spline)



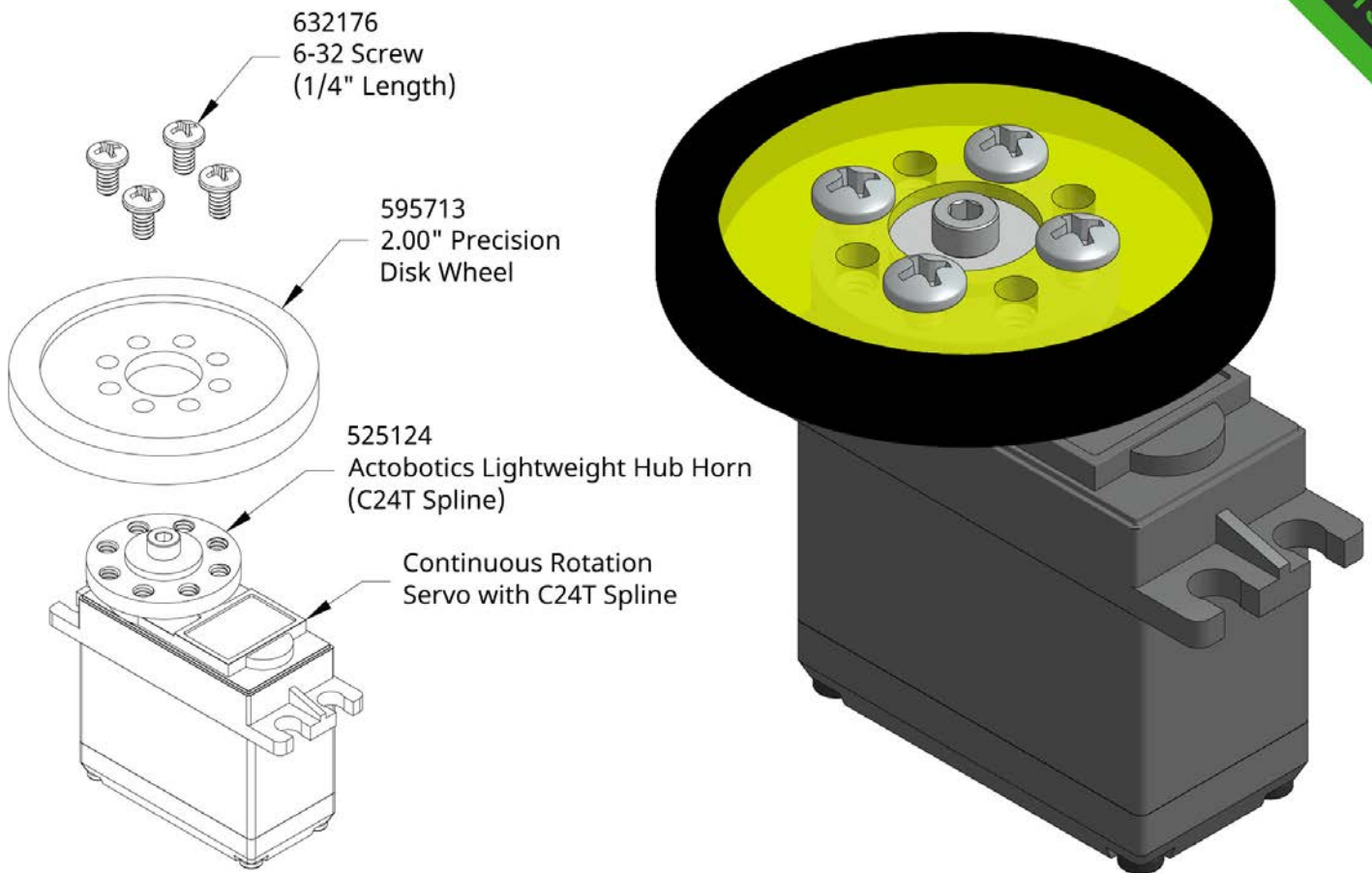
525124 Product Insight #1

The Lightweight Hub Horn makes it easy to mount any Actobotics Hub Mount component to. It includes a 0.500" protrusion to center parts with a 0.500" bore.



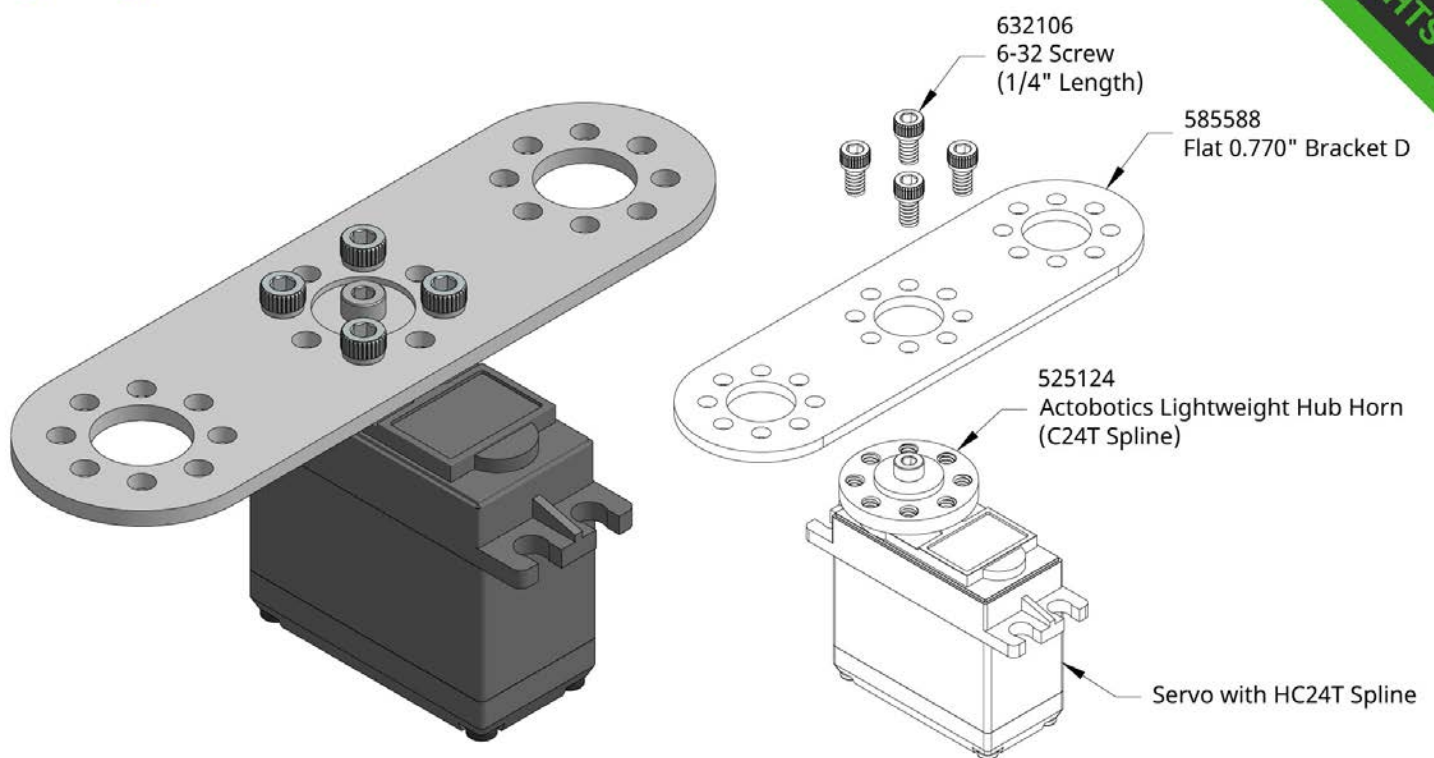
525124 Product Insight #2

Mounting a Single Hub Mount Arm to the 525124 is a great way to add a large servo arm to a project.



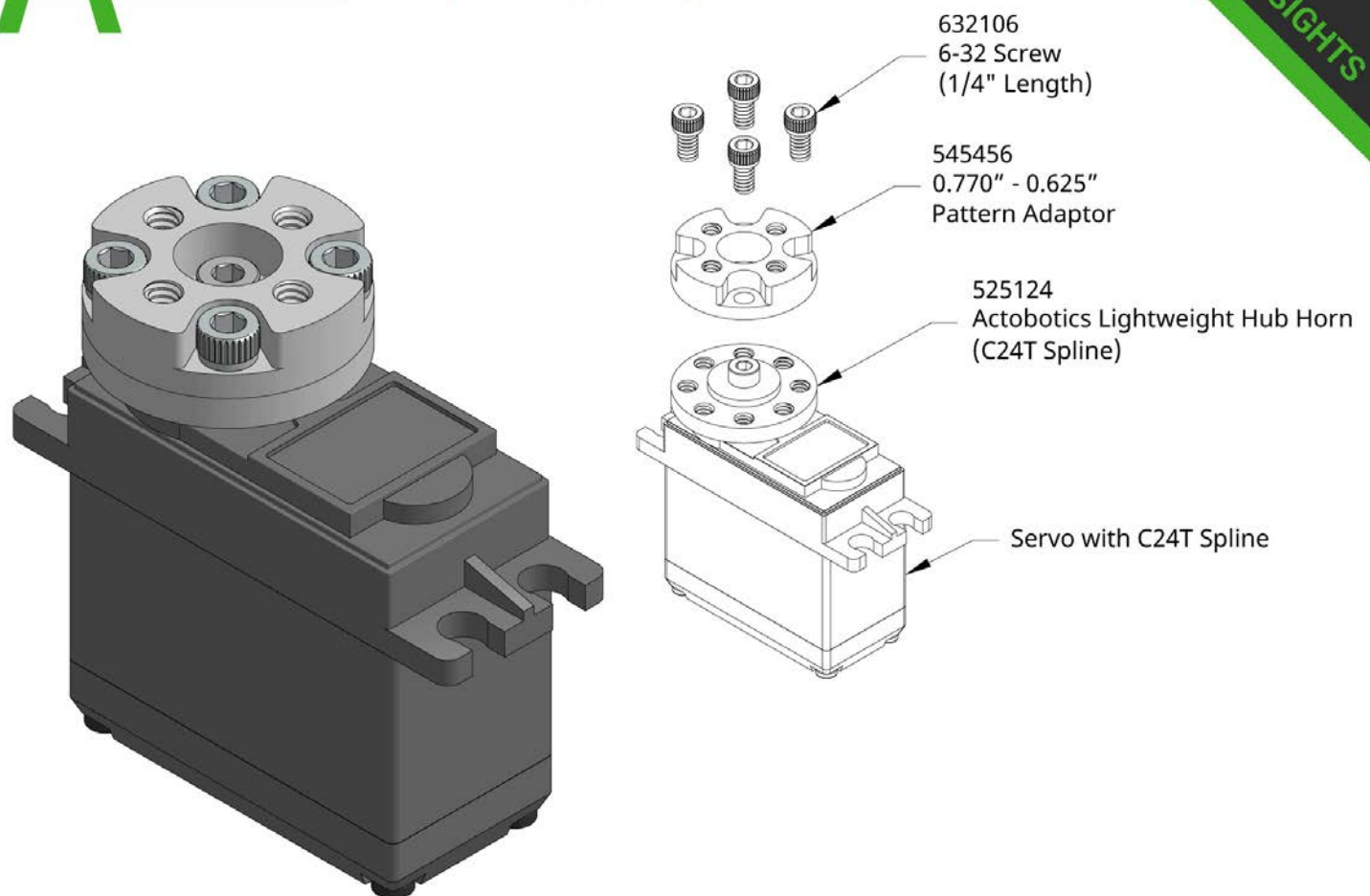
525124 Product Insight #3

Mounting a Precision Disk Wheel to the 525124 in combination with a continuous rotation servo is a quick and easy way to get your robot moving.



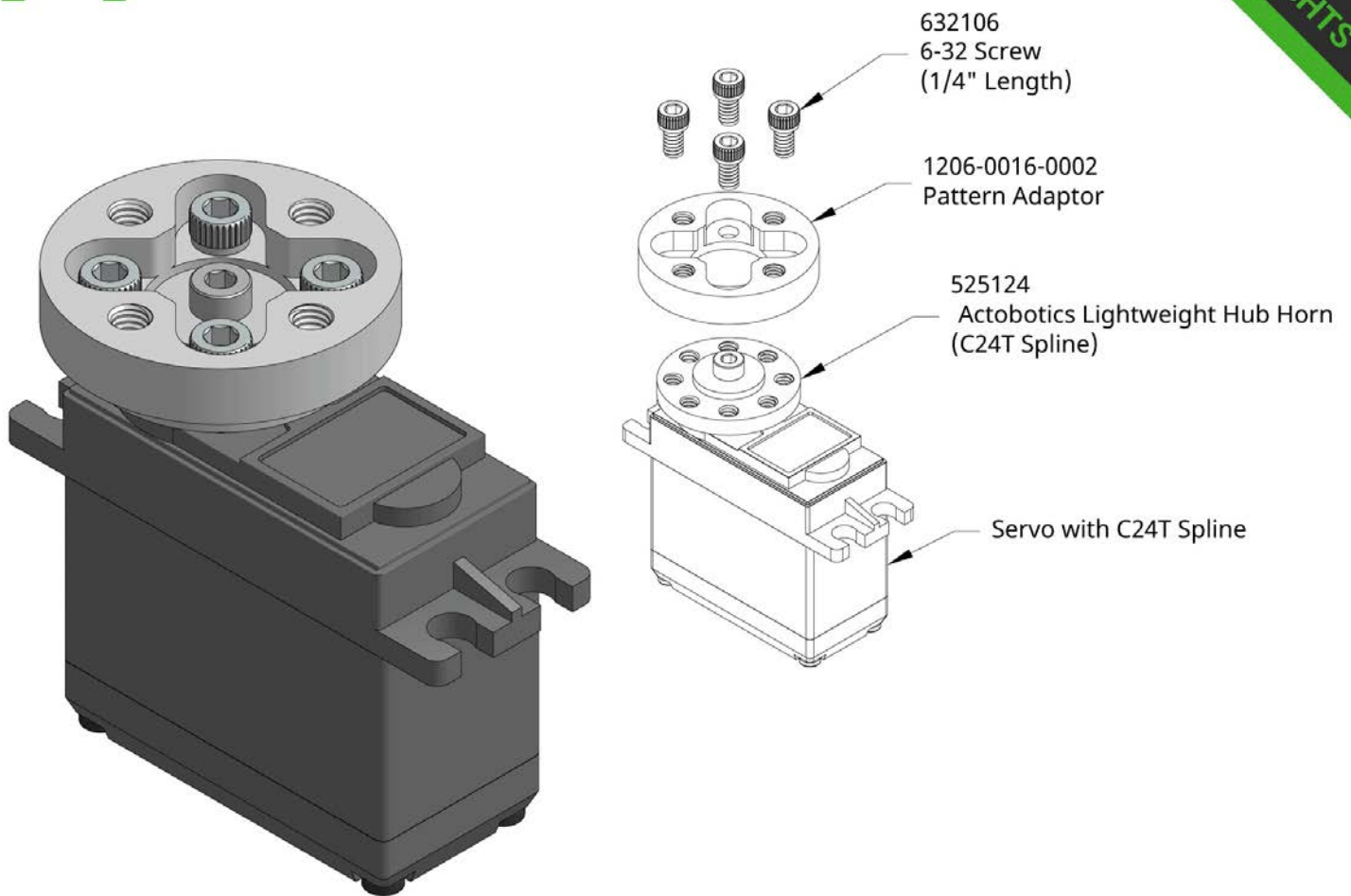
525124 Product Insight #4

A very large servo horn can be created by mounting a flat bracket to the Lightweight Hub Horn.



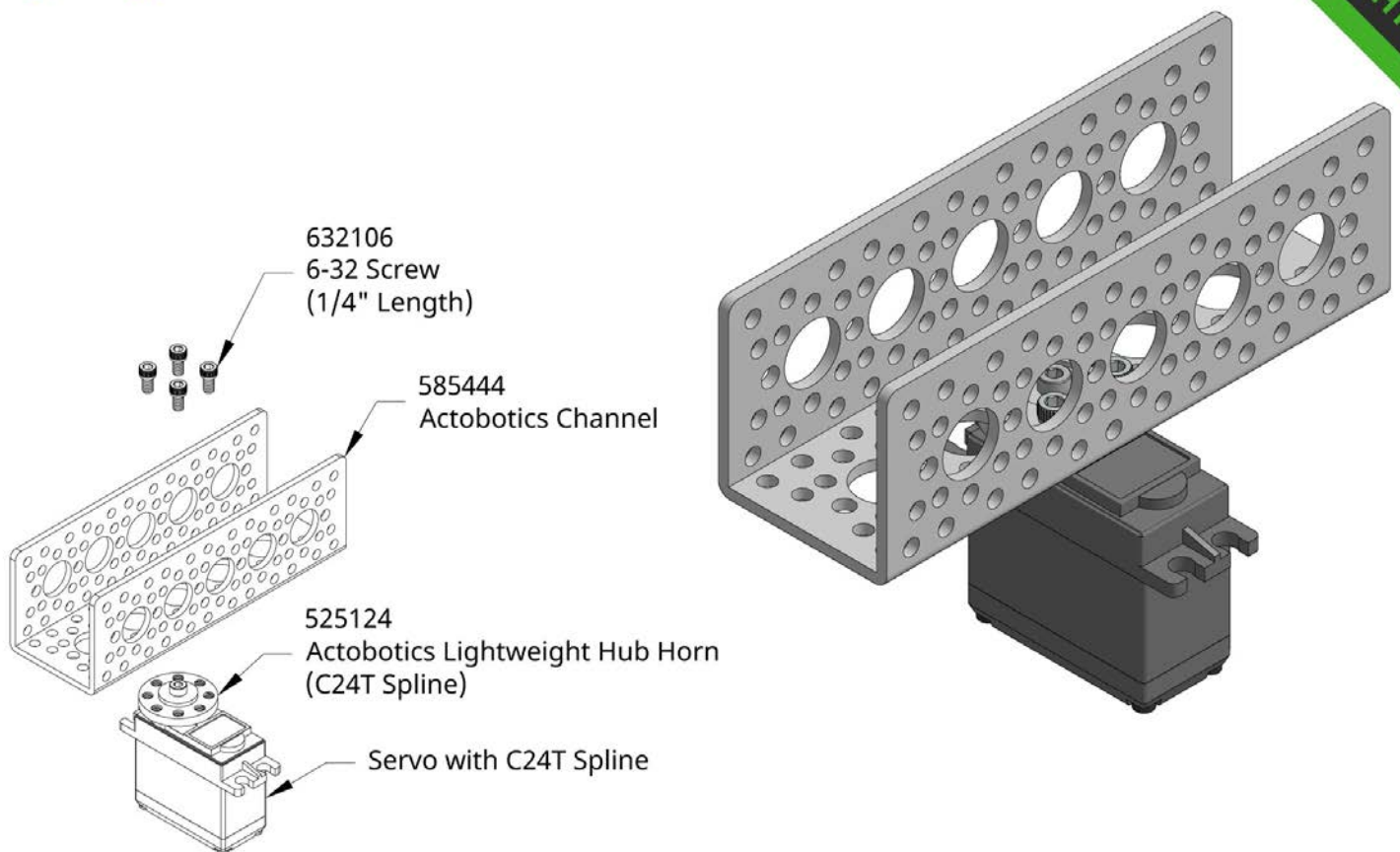
525124 Product Insight #5

Motion control of Tetrix parts can be accomplished by bolting the 545456 Pattern adaptor to the Actobotics Lightweight Hub Horn.



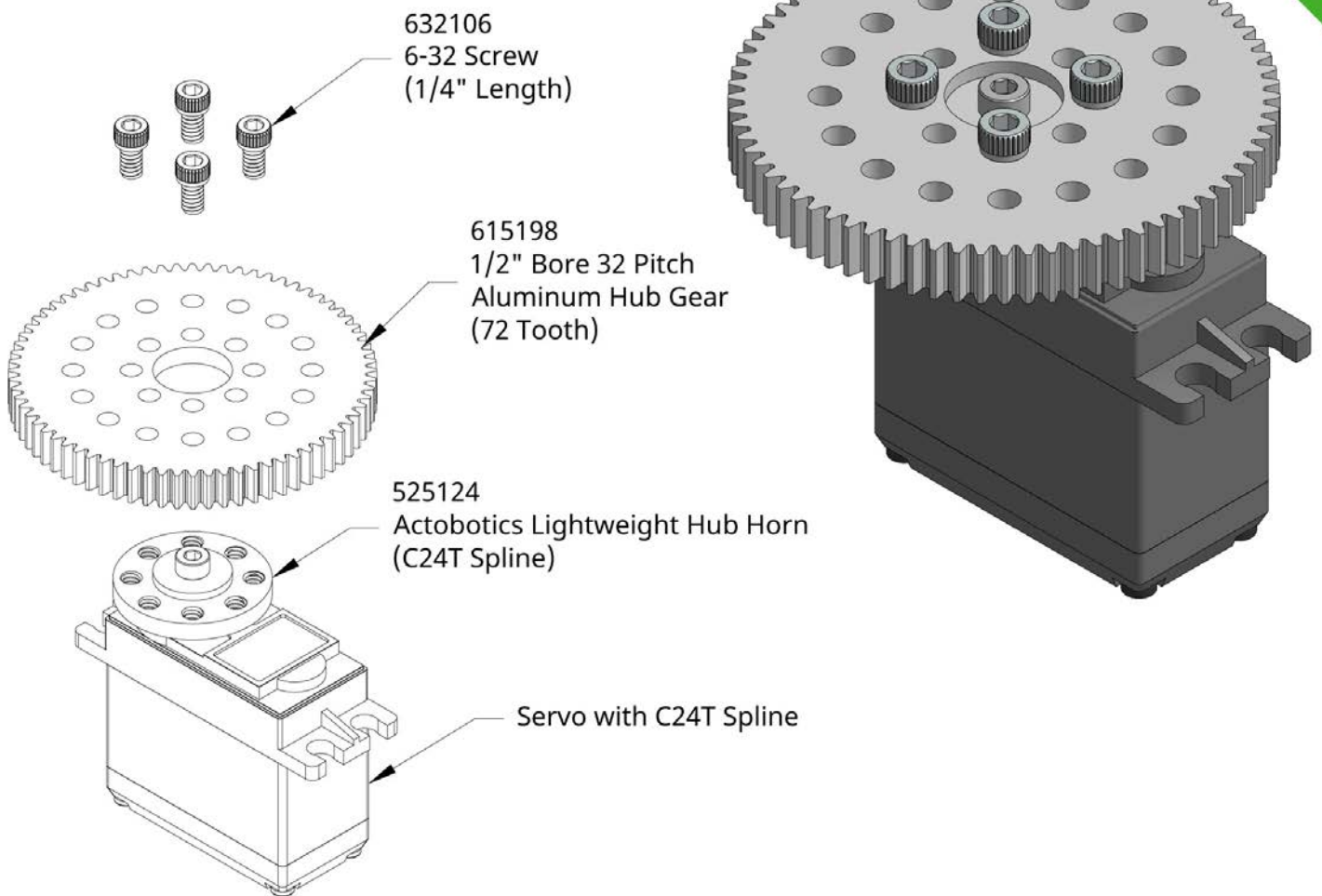
525124 Product Insight #6

Motion control of goBILDA parts can be accomplished by mounting the 1206-0016-0002 Pattern Adapter to the Actobotics Lightweight Hub Horn.



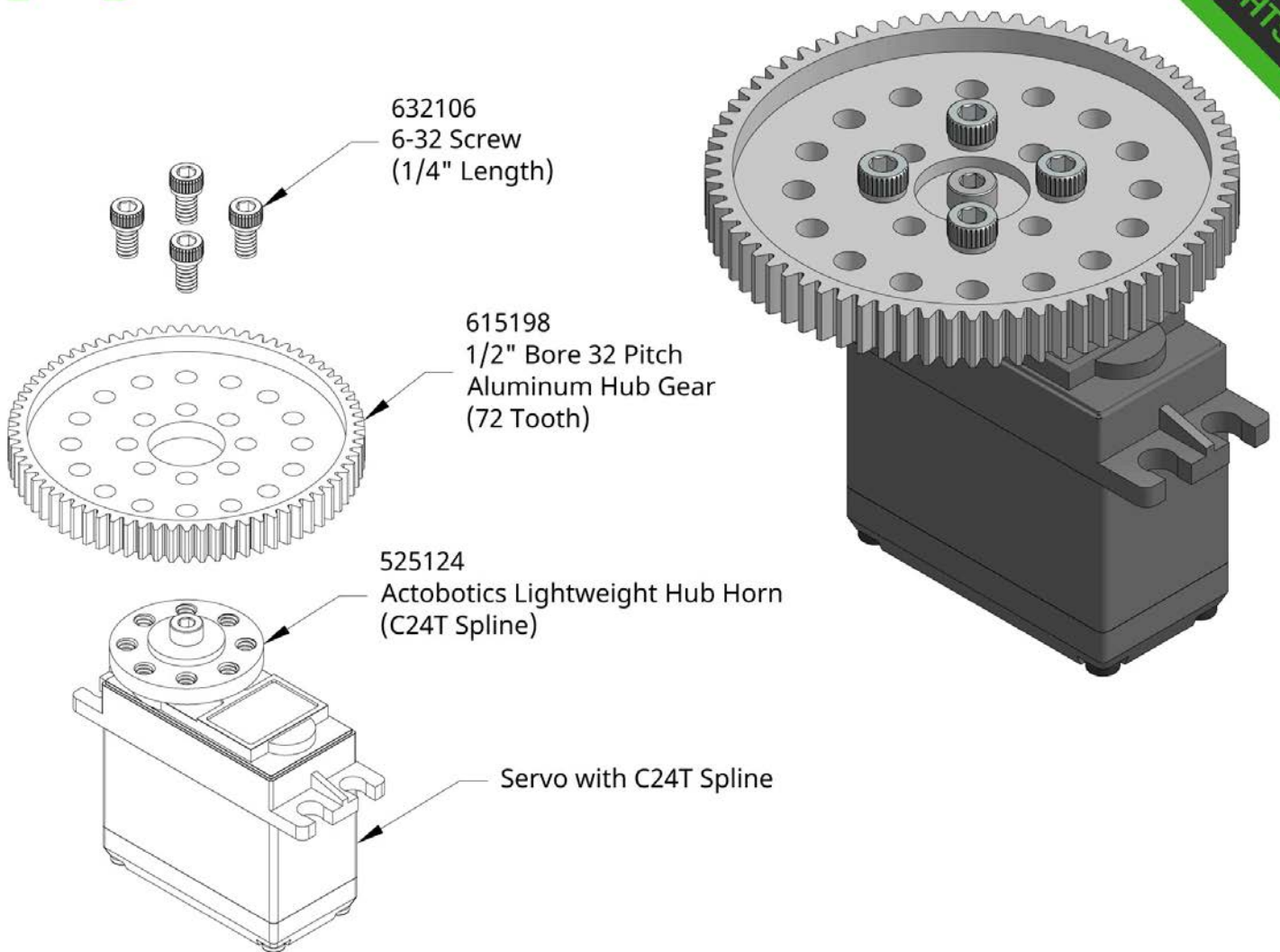
525124 Product Insight #7

Control the motion of Actobotics channel by bolting it directly to the Actobotics Lightweight Hub Horn.



525124 Product Insight #8

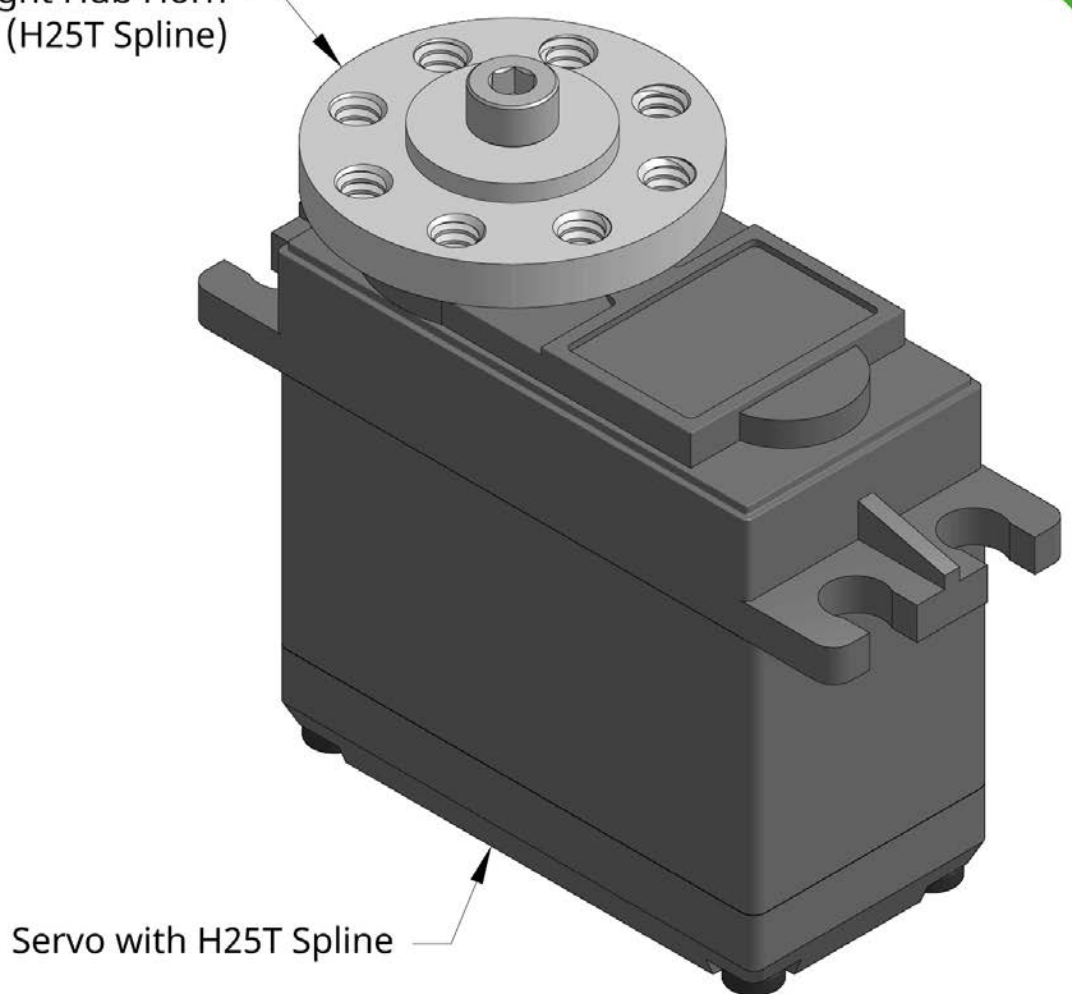
Create a massive amount of torque by adding a gear ratio to a servo's output. Hub mount gears will bolt directly to the Actobotics Lightweight Hub Horn.



525124 Product Insight #9

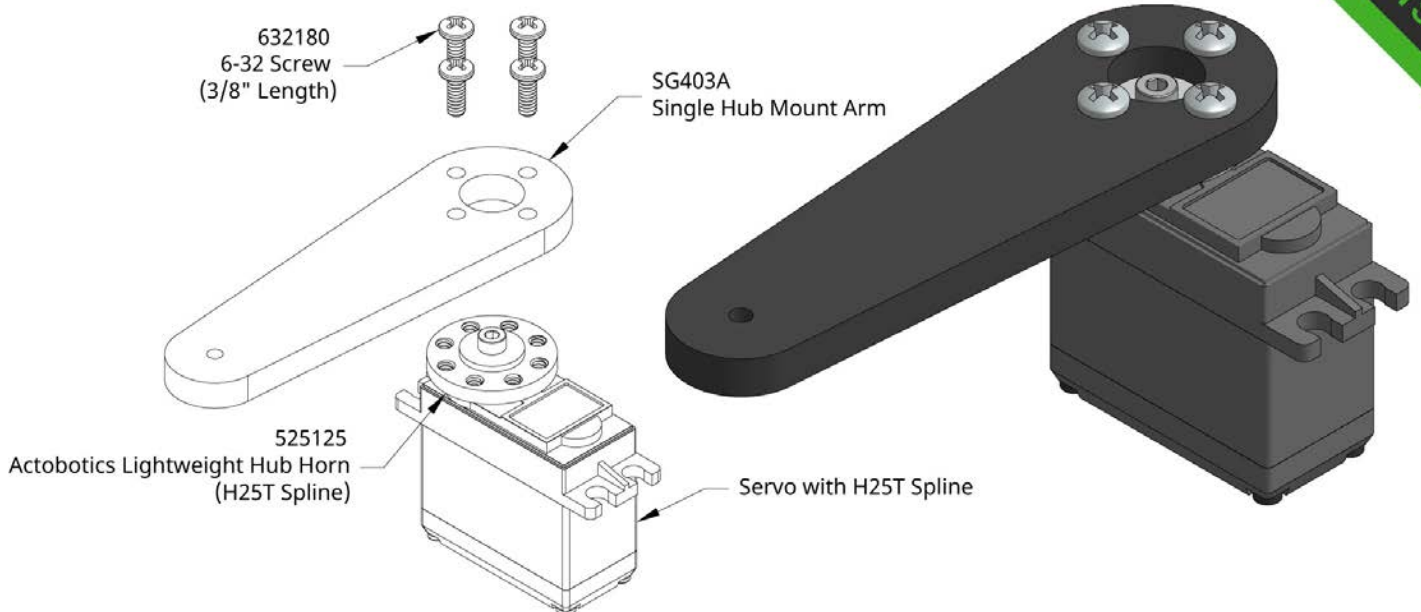
Create a massive amount of torque by adding a gear ratio to a servo's output. Hub mount gears will bolt directly to the Actobotics Lightweight Hub Horn. In low clearance situations, the 6-32 mounting screws can be tucked into the gear's bored out center.

525125
Actobotics Lightweight Hub Horn
(H25T Spline)



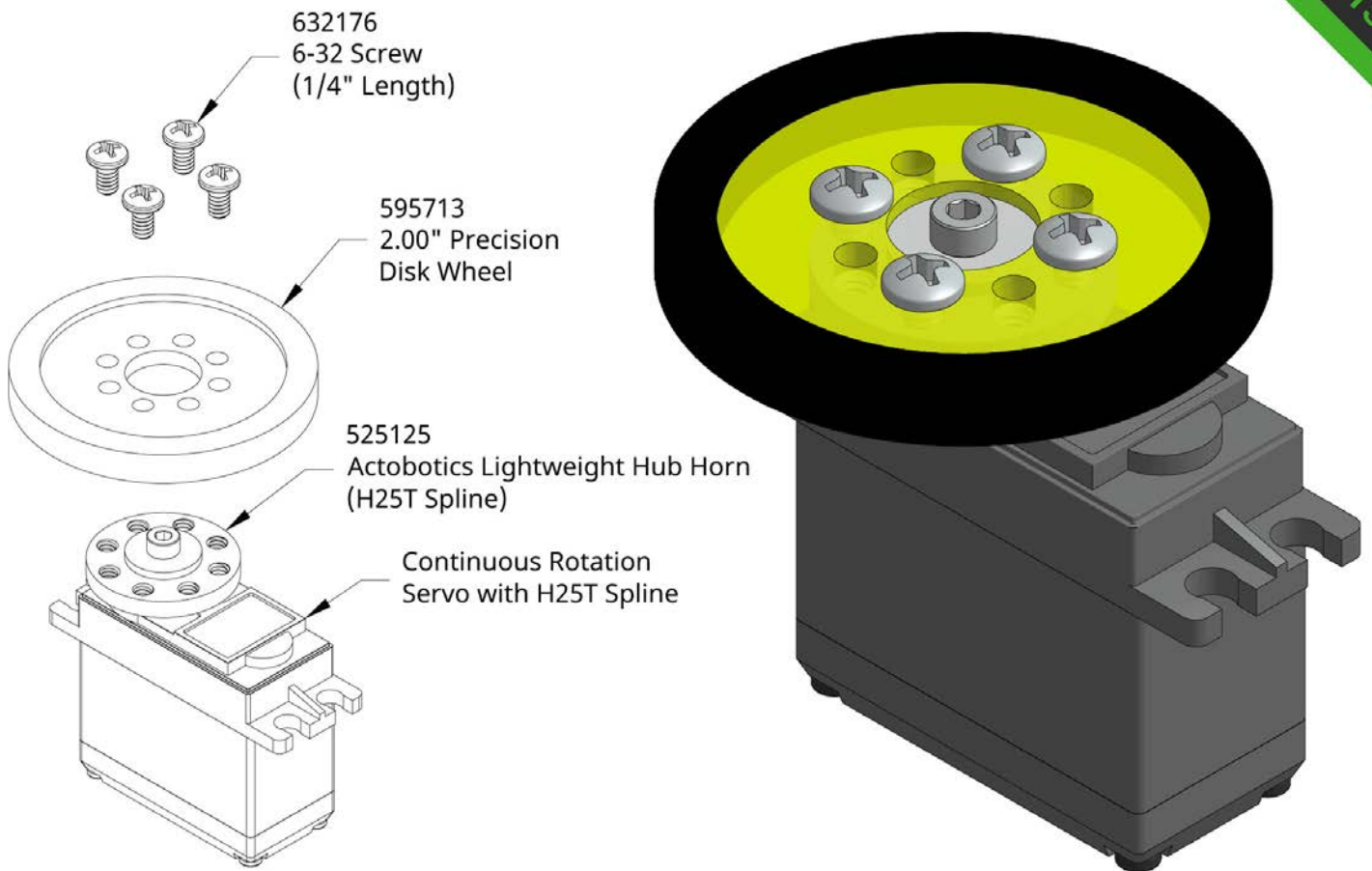
525125 Product Insight #1

The Lightweight Hub Horn makes it easy to mount any Actobotics Hub Mount component to. It includes a 0.500" protrusion to center parts with a 0.500" bore.



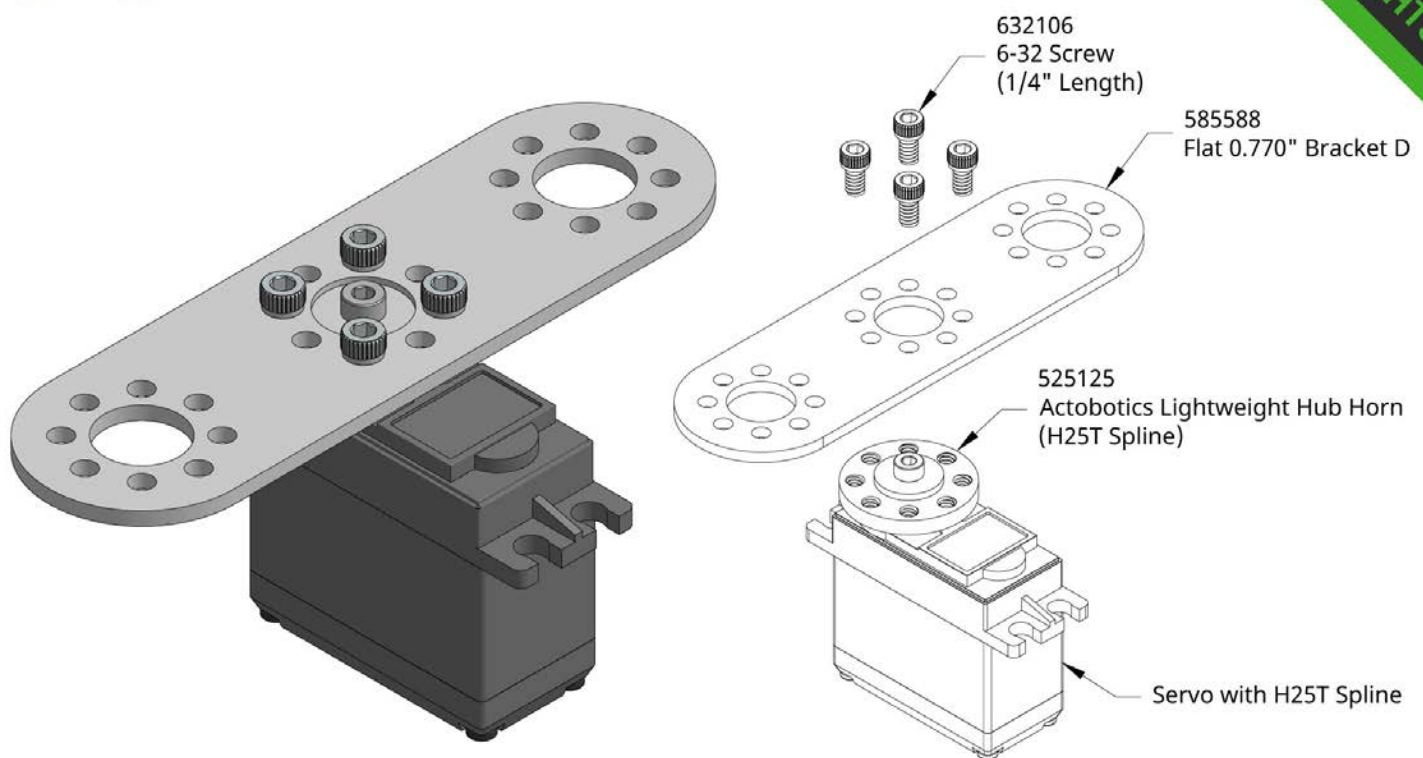
525125 Product Insight #2

Mounting a Single Hub Mount Arm to the 525125 is a great way to add a large servo arm to a project.



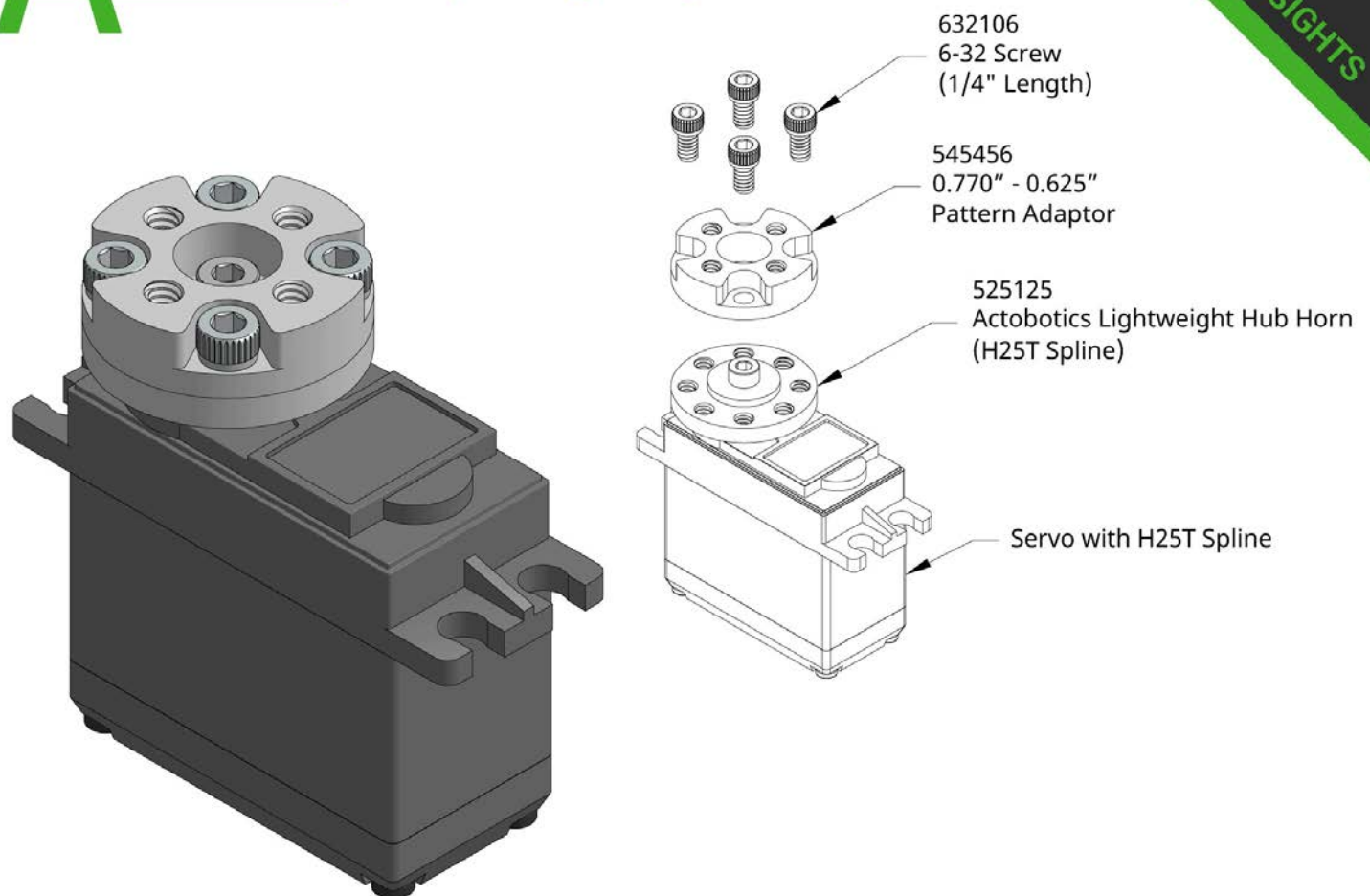
525125 Product Insight #3

Mounting a Precision Disk Wheel to the 525125 in combination with a continuous rotation servo is a quick and easy way to get your robot moving.



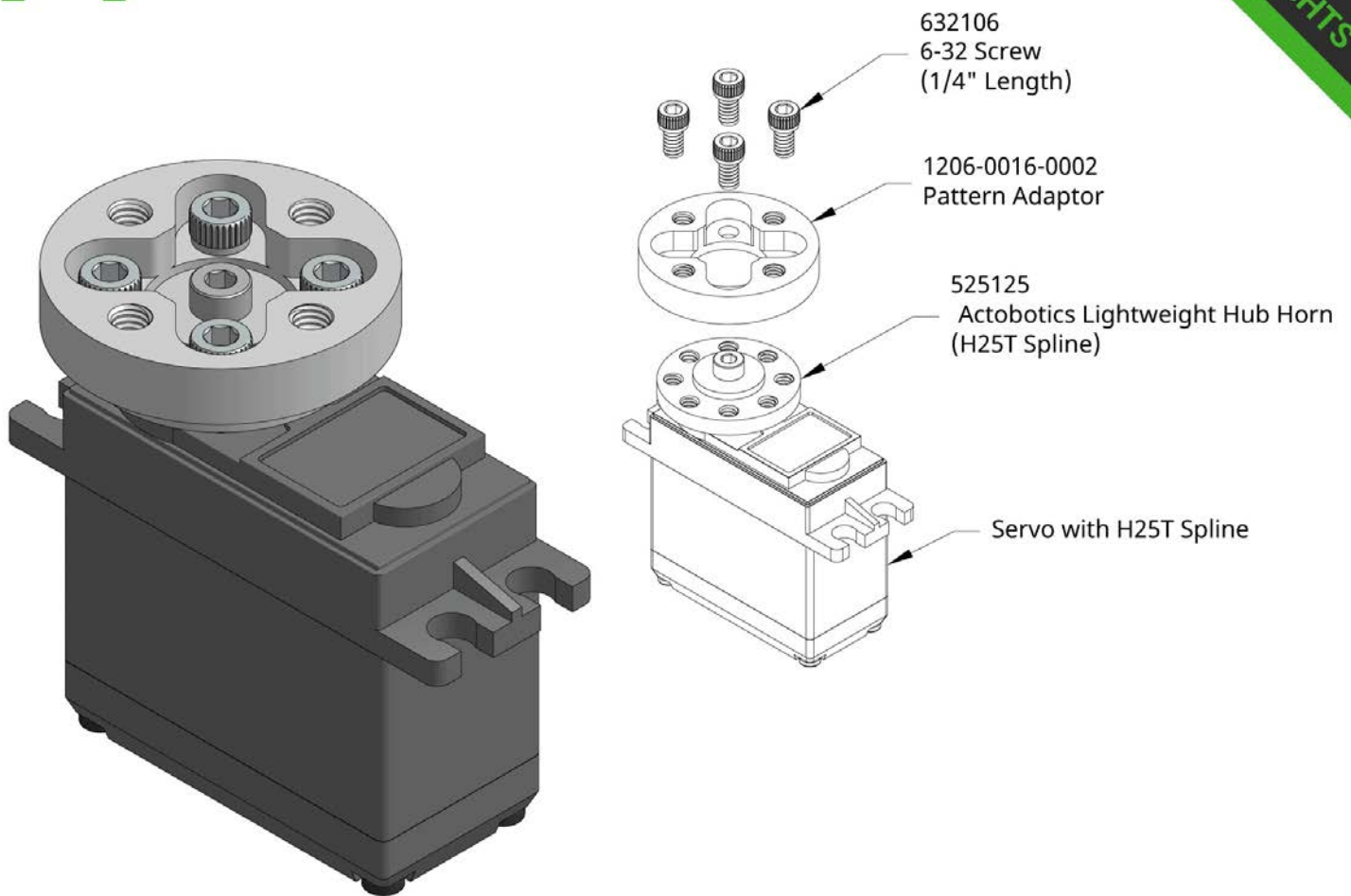
525125 Product Insight #4

A very large servo horn can be created by mounting a flat bracket to the Lightweight Hub Horn.



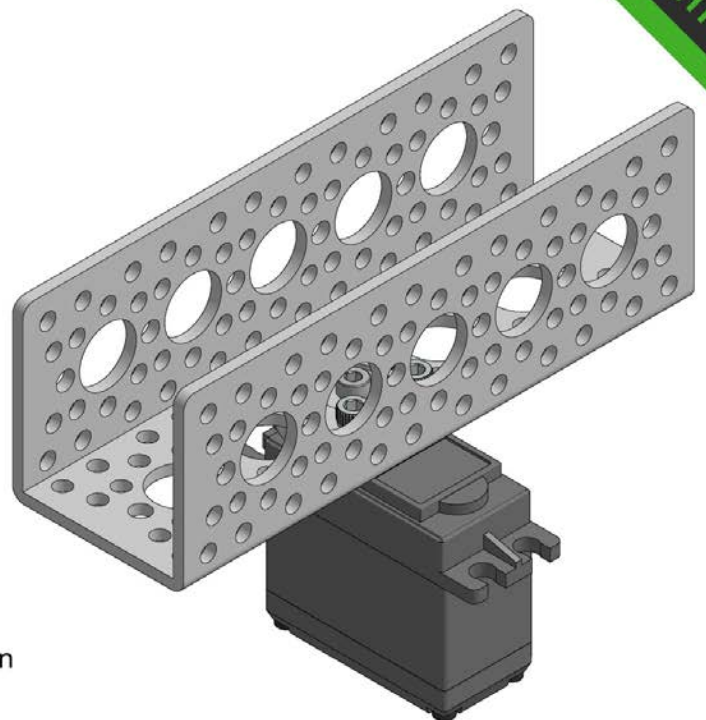
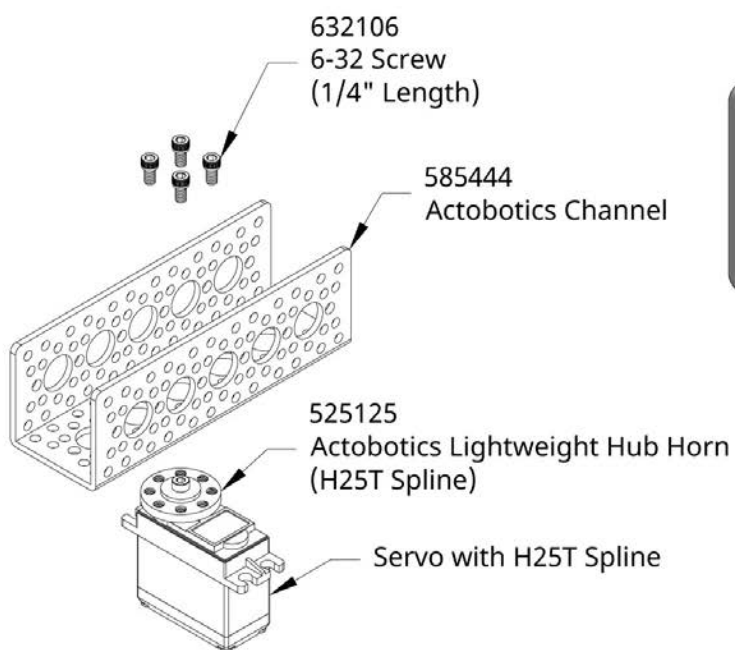
525125 Product Insight #5

Motion control of Tetrix parts can be accomplished by bolting the 545456 Pattern adaptor to the Actobotics Lightweight Hub Horn.



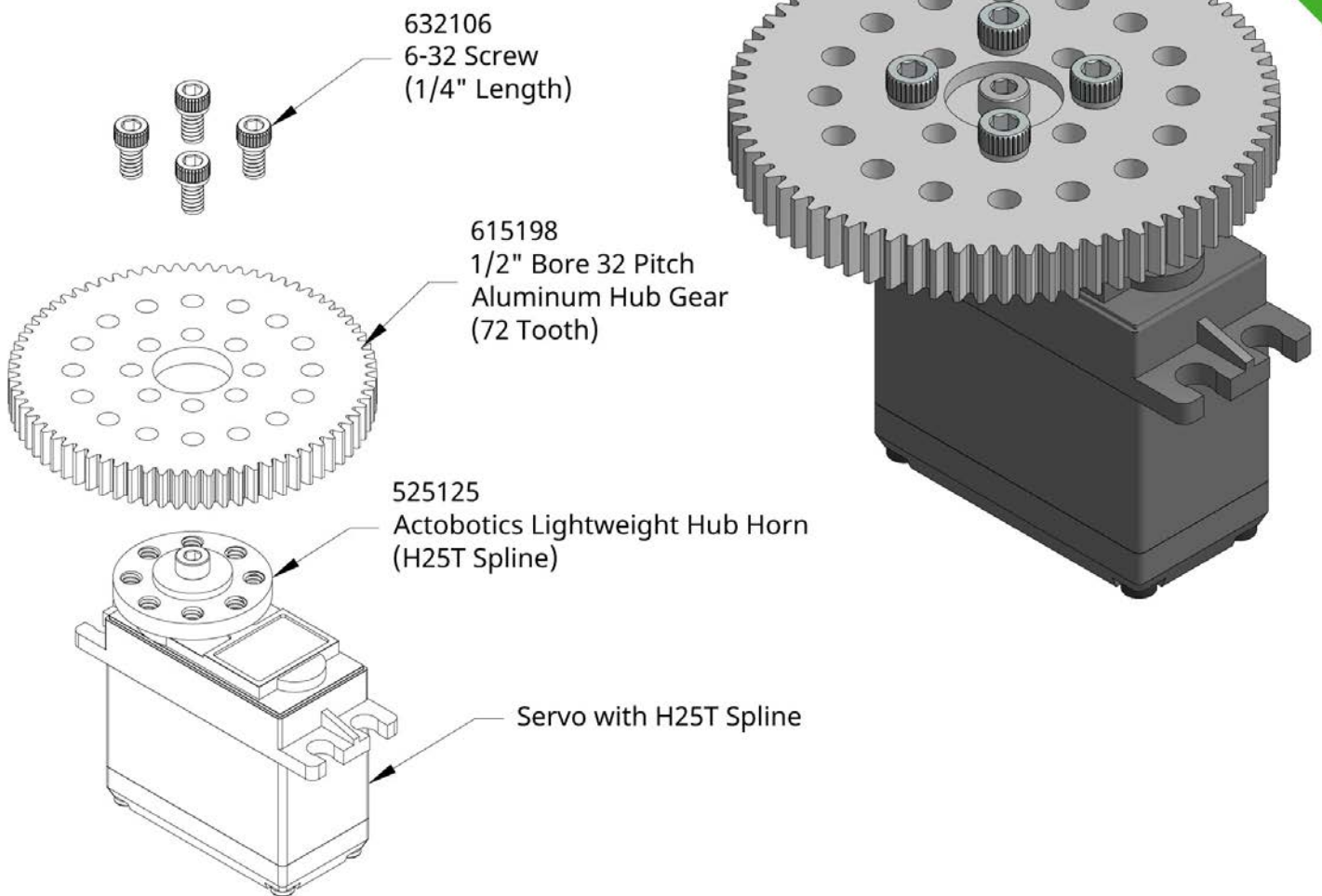
525125 Product Insight #6

Motion control of goBILDA parts can be accomplished by mounting the 1206-0016-0002 Pattern Adapter to the Actobotics Lightweight Hub Horn.



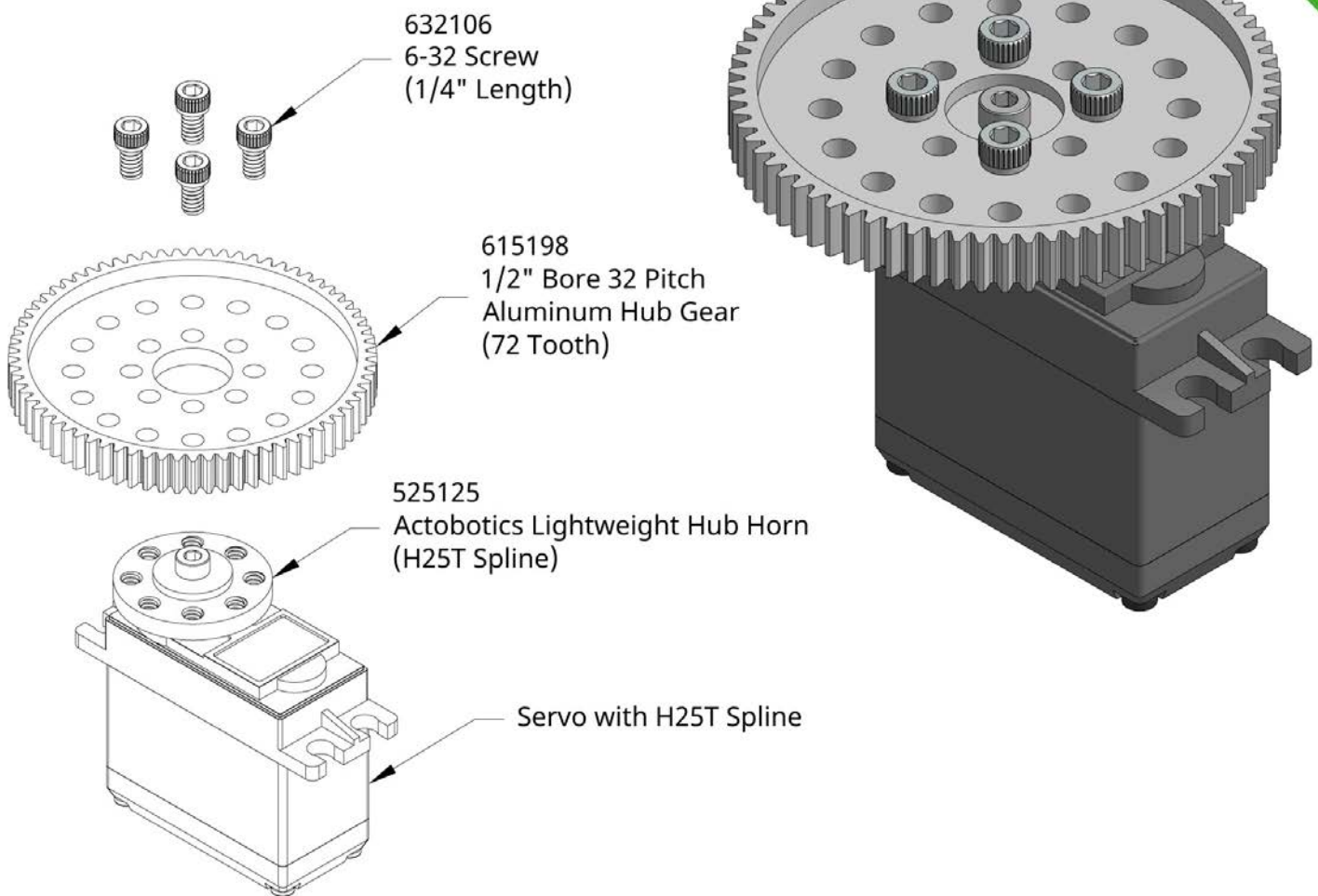
525125 Product Insight #7

Control the motion of Actobotics channel by bolting it directly to the Actobotics Lightweight Hub Horn.



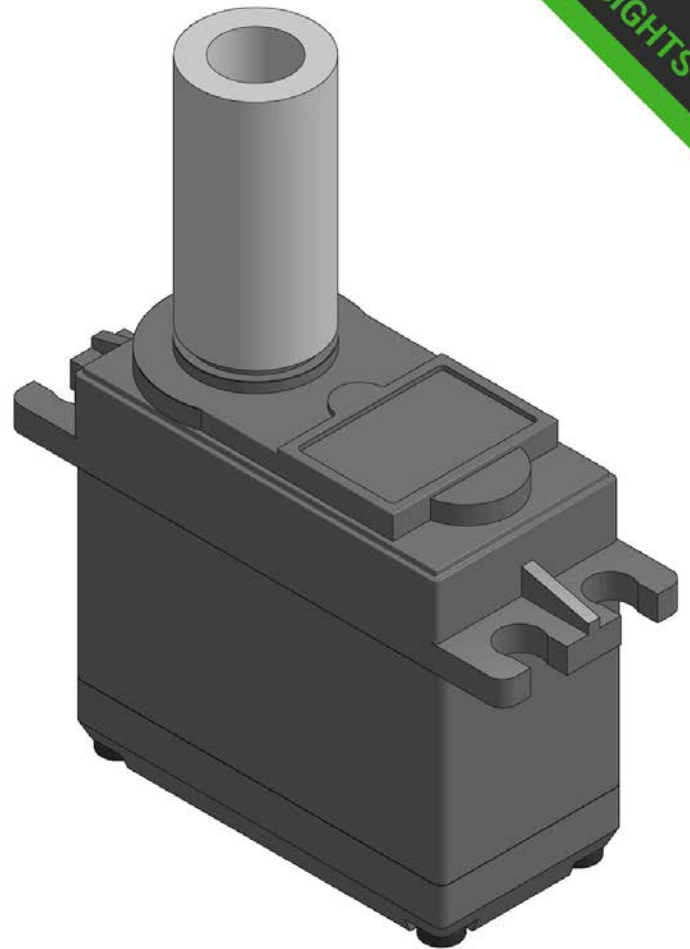
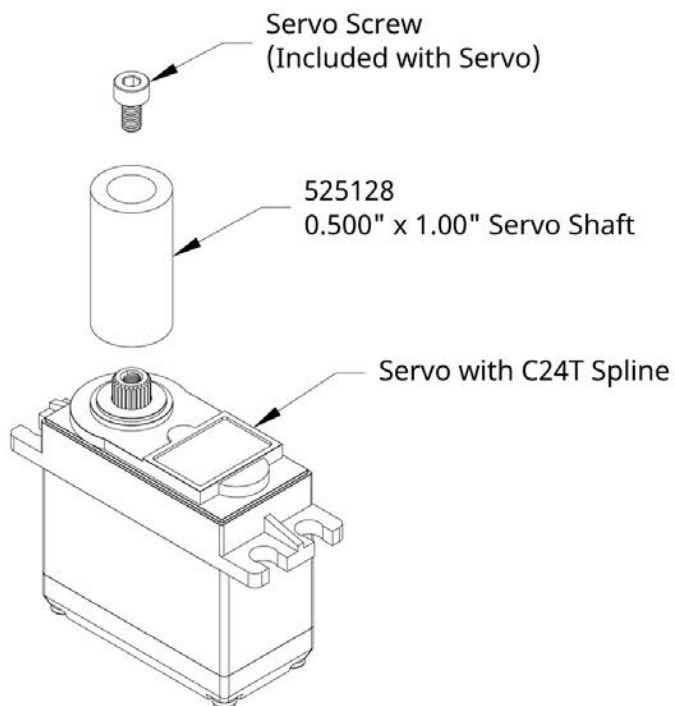
525125 Product Insight #8

Create a massive amount of torque by adding a gear ratio to a servo's output. Hub mount gears will bolt directly to the Actobotics Lightweight Hub Horn.



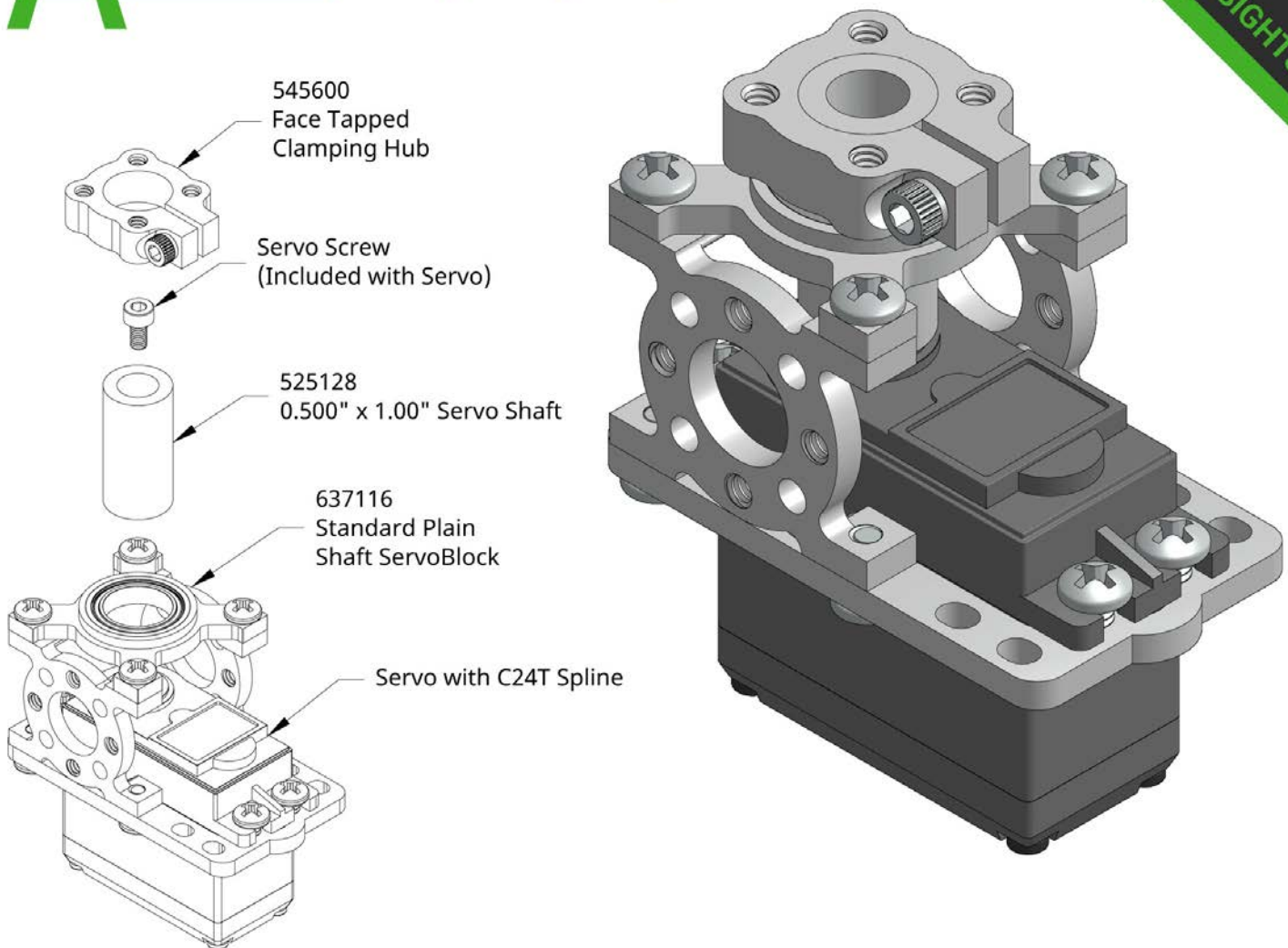
525125 Product Insight #9

Create a massive amount of torque by adding a gear ratio to a servo's output. Hub mount gears will bolt directly to the Actobotics Lightweight Hub Horn. In low clearance situations, the 6-32 mounting screws can be tucked into the gear's bored out center.



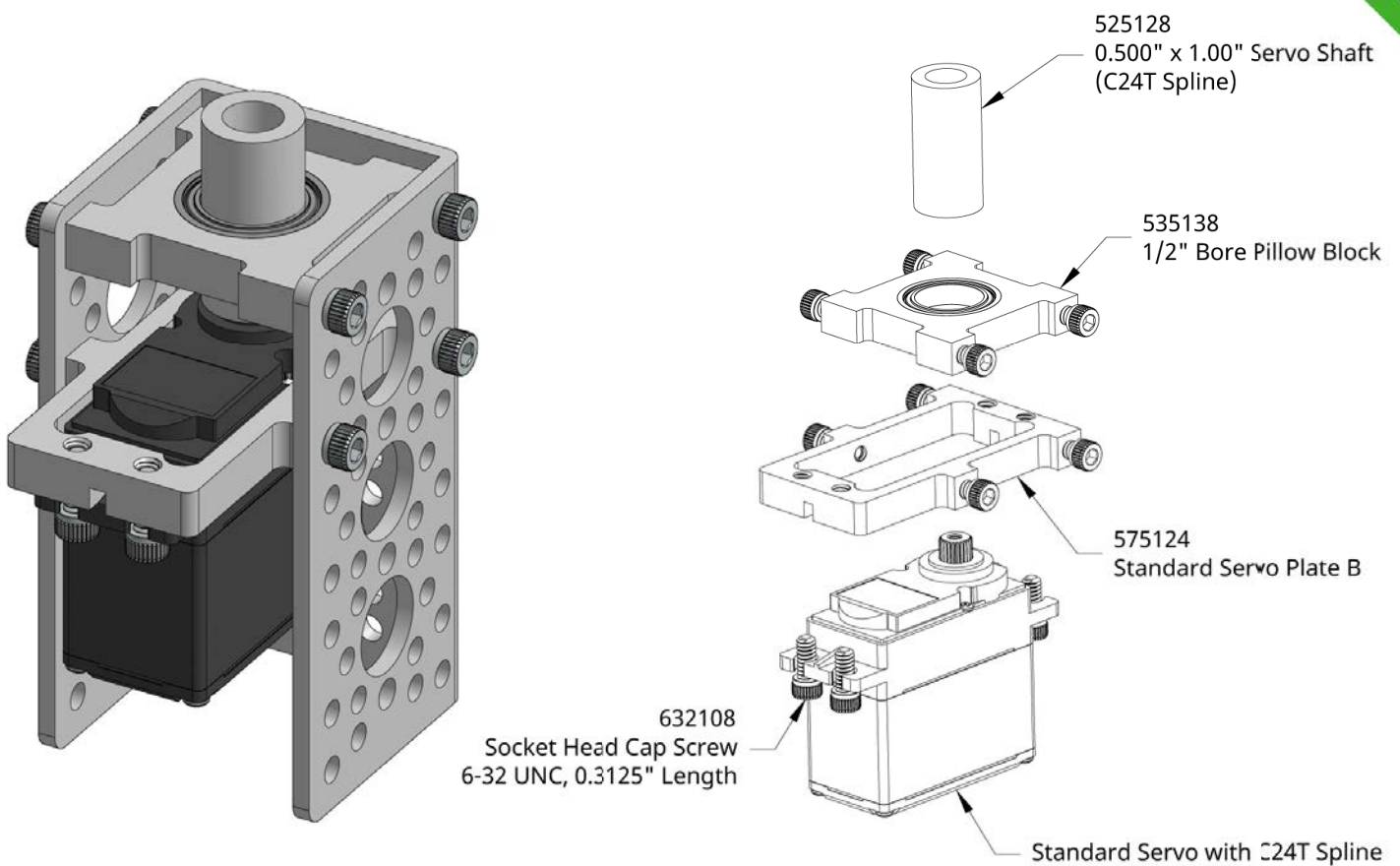
525128 Product Insight #1

A 525128 is a great way to adapt a servo spline into a 0.500" shaft.



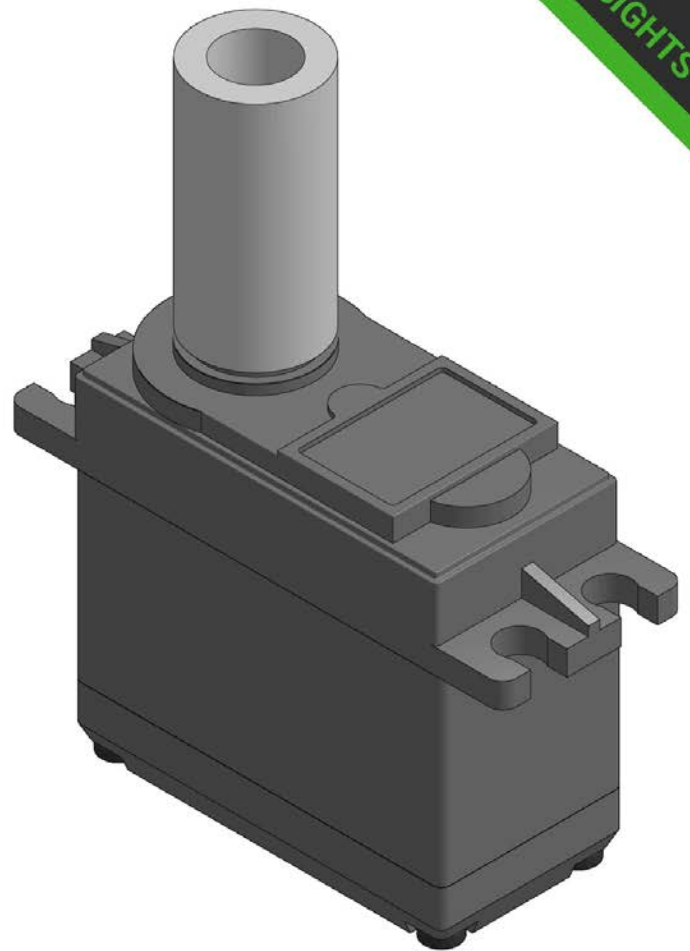
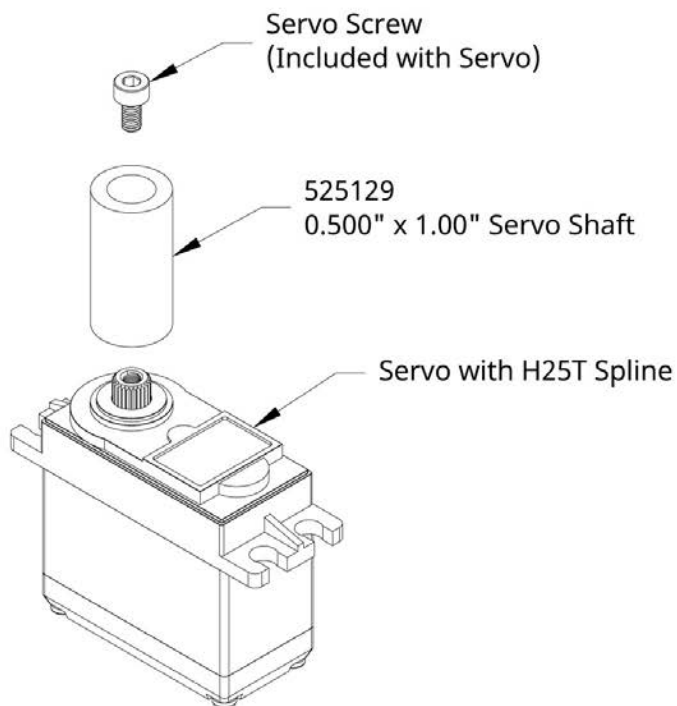
525128 Product Insight #2

Used in combination with a ServoBlock, the Servo Shaft can be radially supported for high stress applications. Since the Servo Shaft is round, the clamping hub can be indexed in the most convenient manner within an assembly.



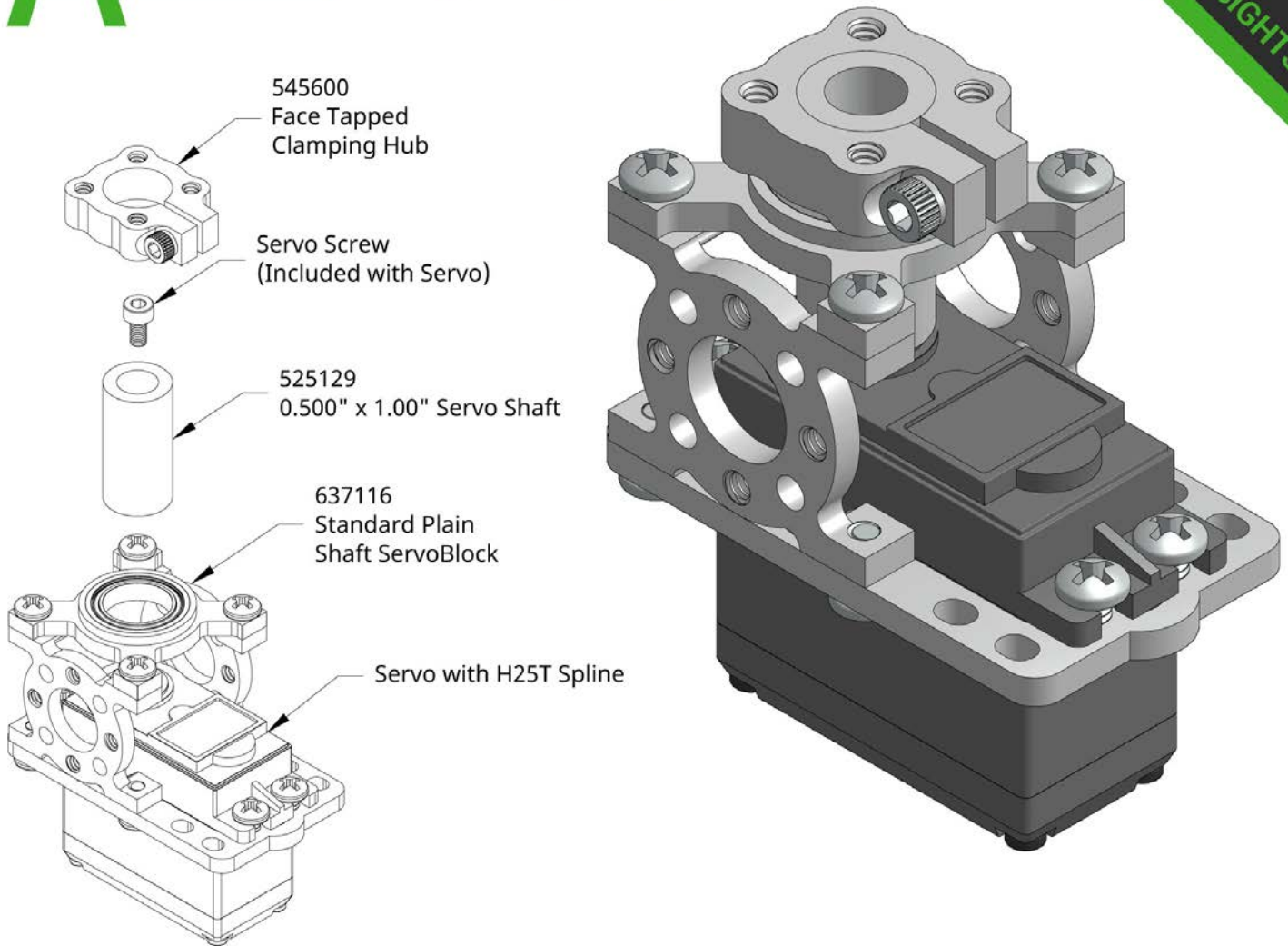
525128 Product Insight #3

When a servo is nested inside of Actobotics channel, the 525128 Servo Shaft can give radially supported motion control out the end of channel.



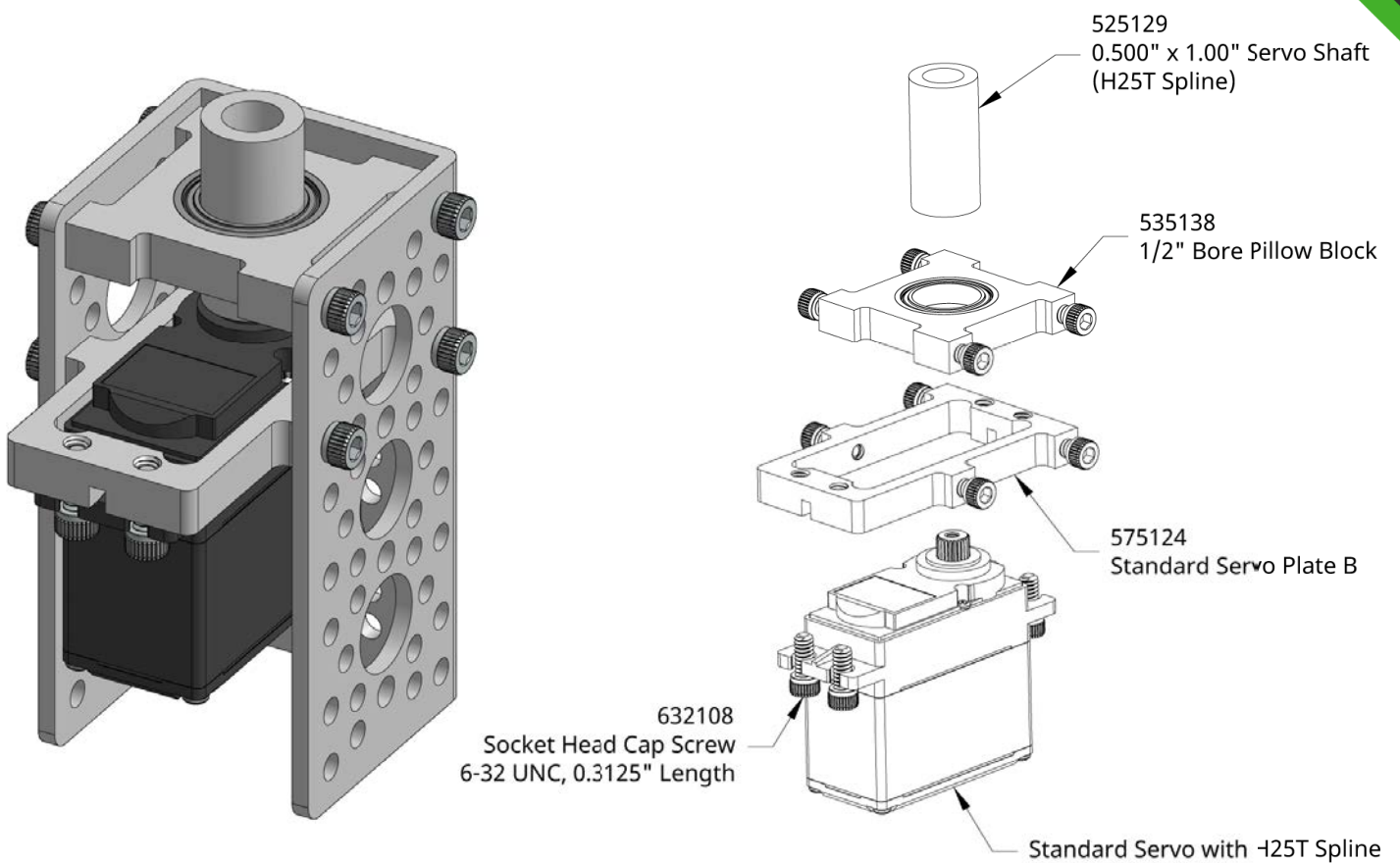
525129 Product Insight #1

A 525129 is a great way to adapt a servo spline into a 0.500" shaft.



525129 Product Insight #2

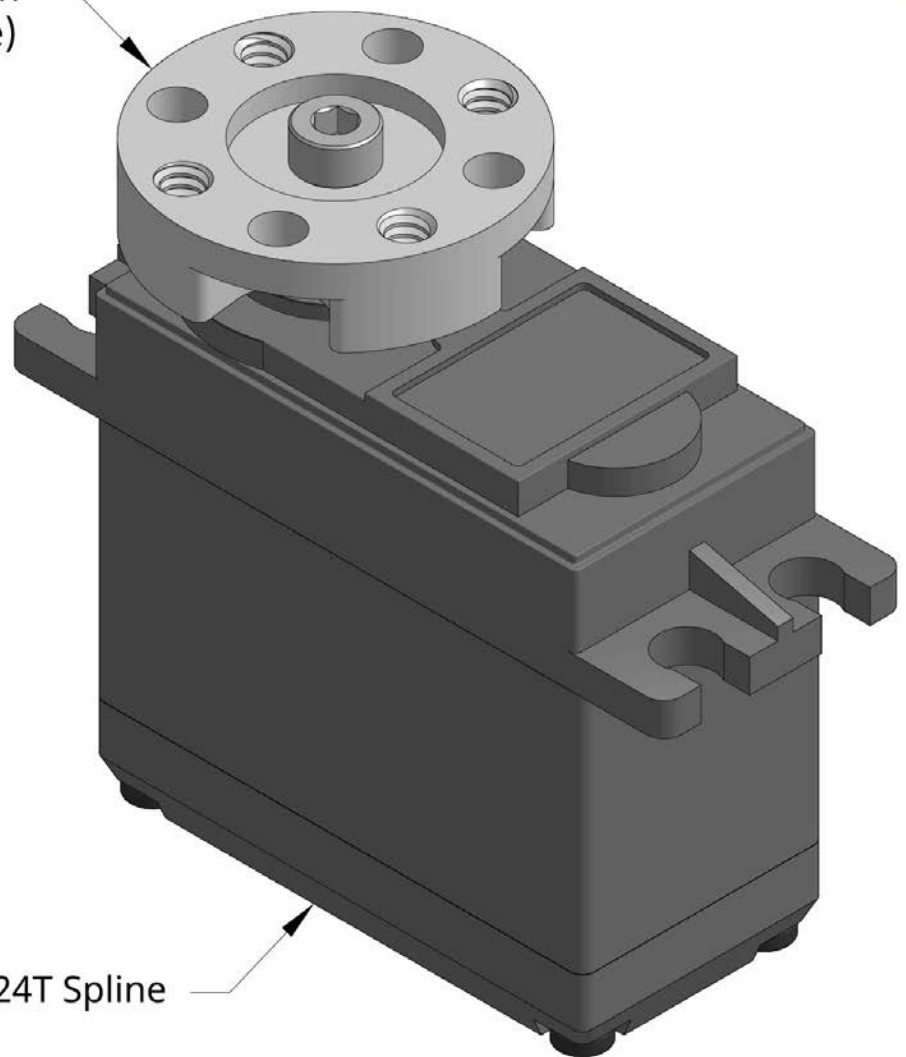
Used in combination with a ServoBlock, the Servo Shaft can be radially supported for high stress applications. Since the Servo Shaft is round, the clamping hub can be indexed in the most convenient manner within an assembly.



525129 Product Insight #3

When a servo is nested inside of Actobotics channel, the 525129 Servo Shaft can give radially supported motion control out the end of channel.

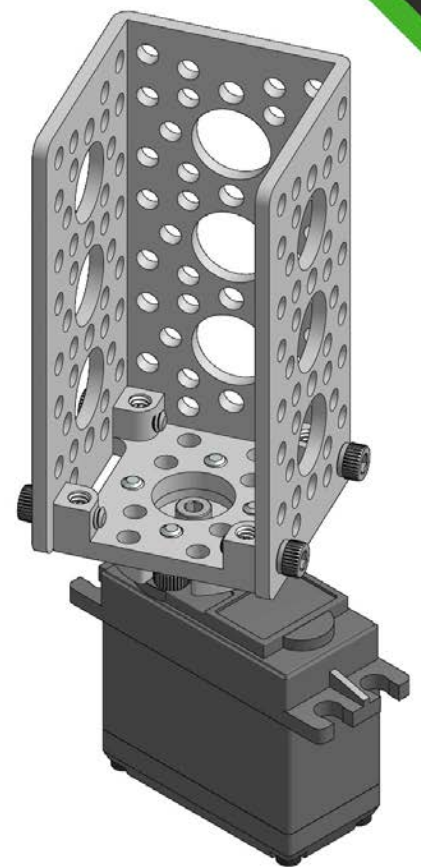
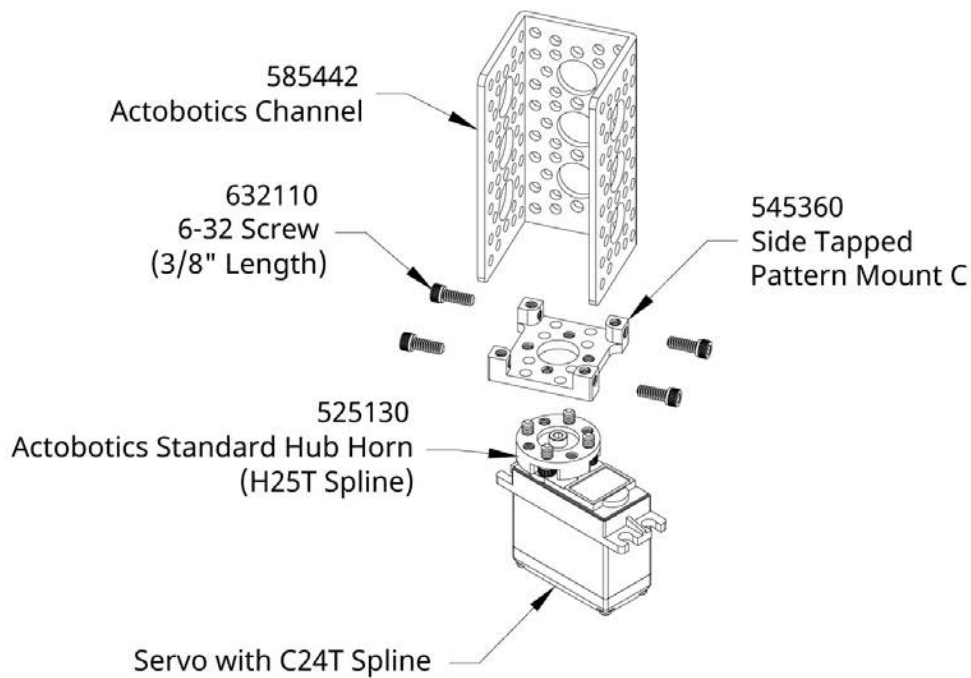
525130
Actobotics Standard Hub Horn
(C24T Spline)



Servo with C24T Spline

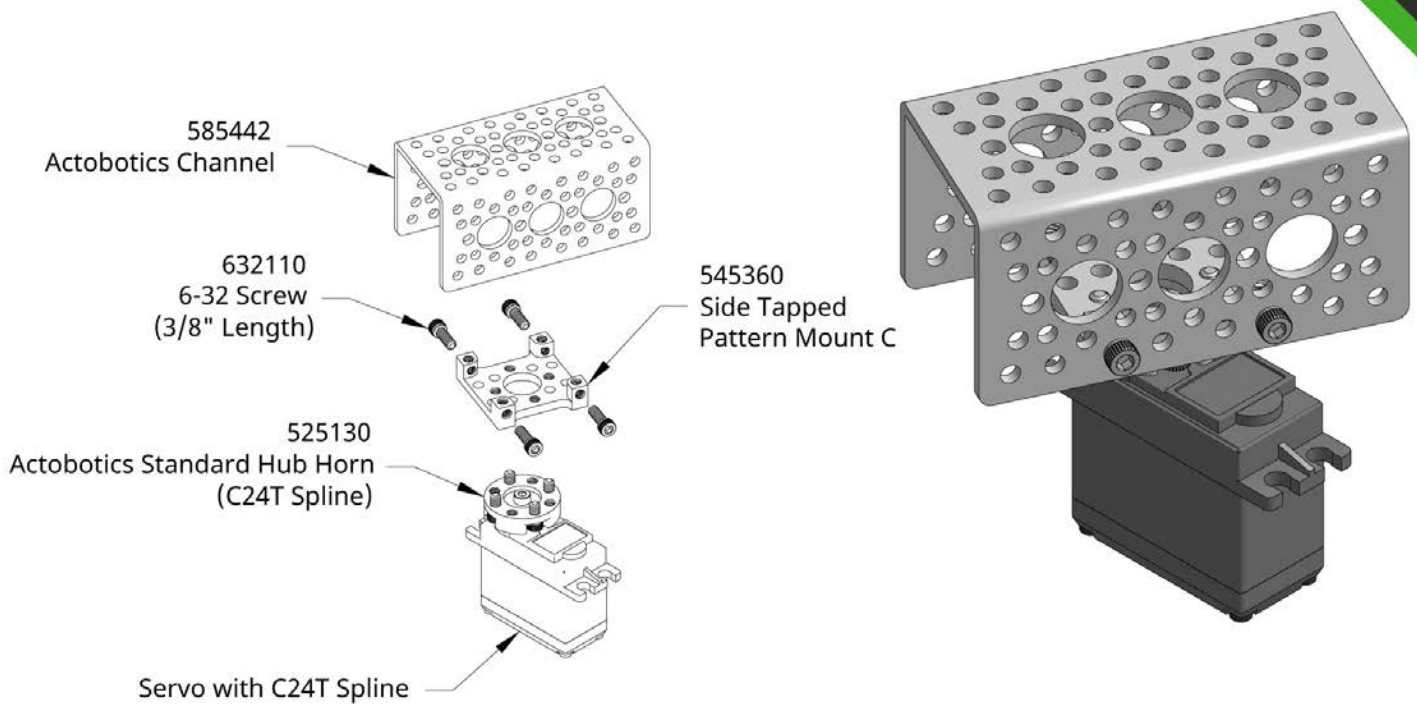
525130 Product Insight #1

The Actobotics Standard Hub Horn makes it easy to get rotary motion from a servo to parts with the Actobotics 0.770" pattern.



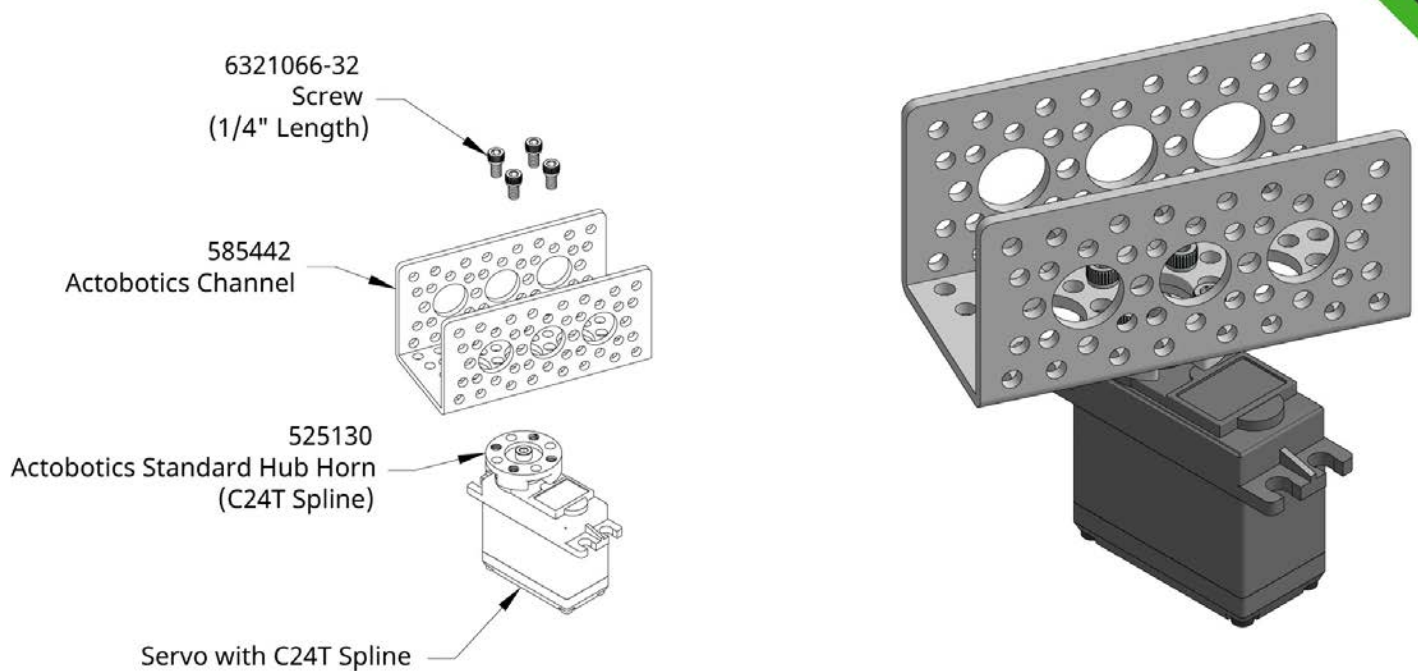
525130 Product Insight #2

Using the counter-bore on the bottom of the 525130 allows it to be screwed directly to parts with 6-32 threads on the 0.770" Actobotics pattern. Actobotics channel can be stood up vertically, and directly driven from a servo with the use of a 545360.



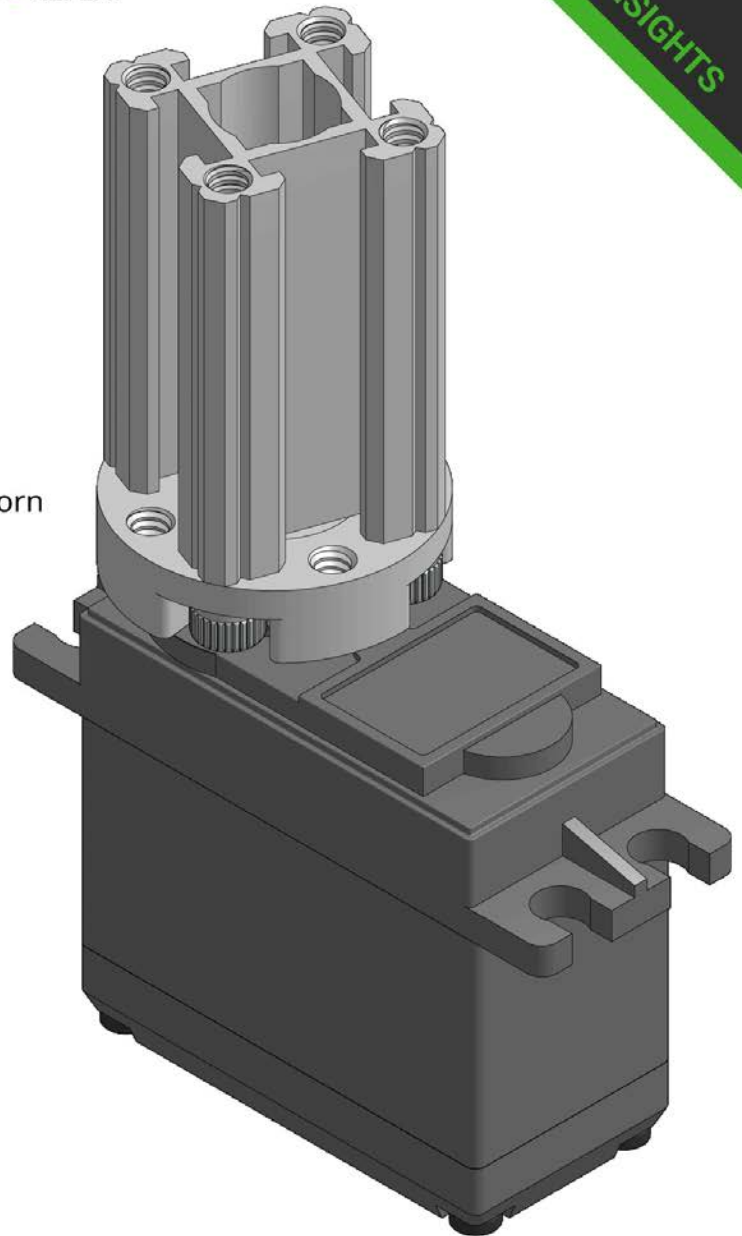
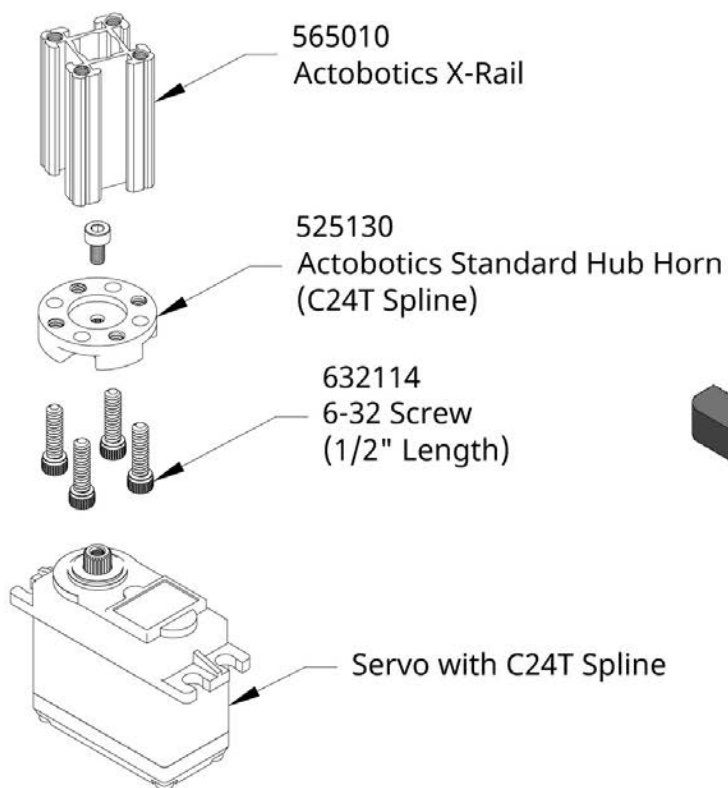
525130 Product Insight #3

Using the counter-bore on the bottom of the 525130 allows it to be screwed directly to parts with 6-32 threads on the 0.770" Actobotics pattern. Actobotics channel can be mounted with its open end facing the servo and directly driven from a servo with the use of a 545360.



525130 Product Insight #4

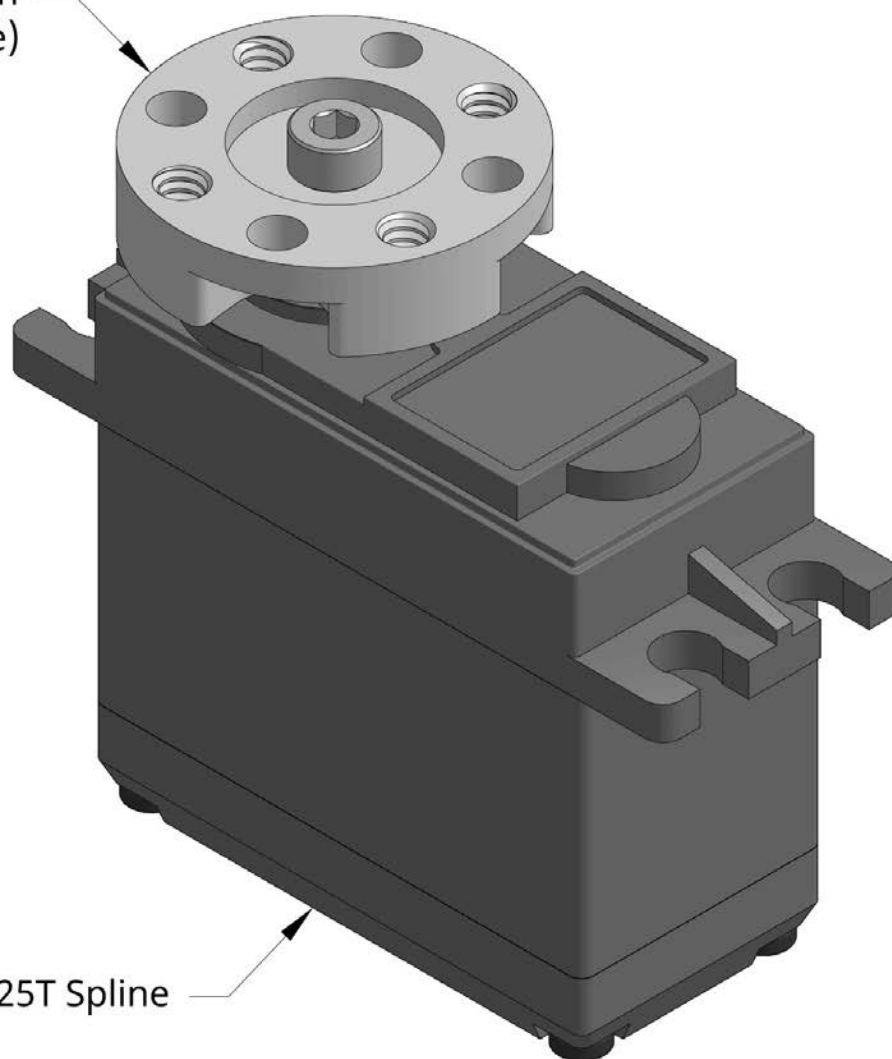
Using the tapped holes in the 525130 allows parts with through holes on the 0.770" Actobotics pattern to be screwed directly to it.



525130 Product Insight #5

Using the counter-bore on the bottom of the 525130 allows X-Rail to screw directly to it. Since the X-Rail will fit into a 1" diameter bearing, the X-Rail can be used as a radially supported shaft being directly driven from the servo.

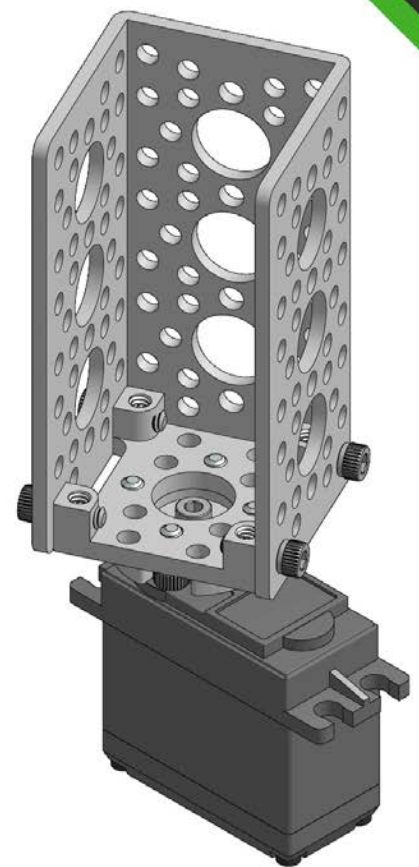
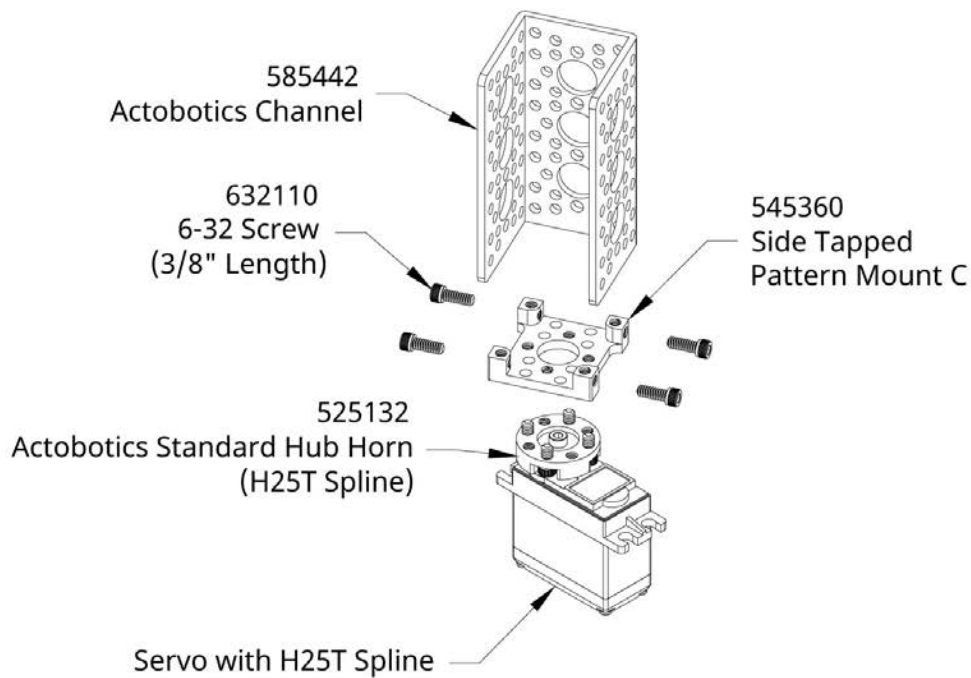
525132
Actobotics Standard Hub Horn
(H25T Spline)



Servo with H25T Spline

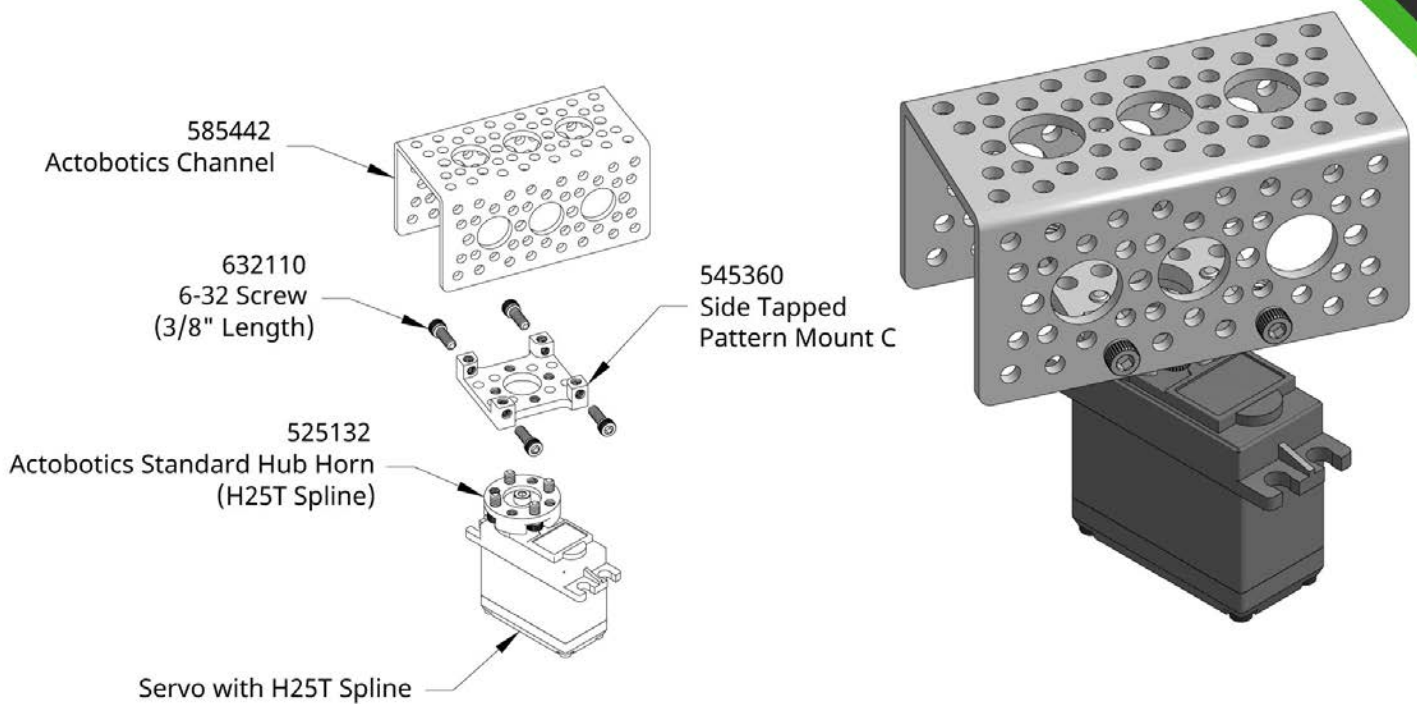
525132 Product Insight #1

The Actobotics Standard Hub Horn makes it easy to get rotary motion from a servo to parts with the Actobotics 0.770" pattern.



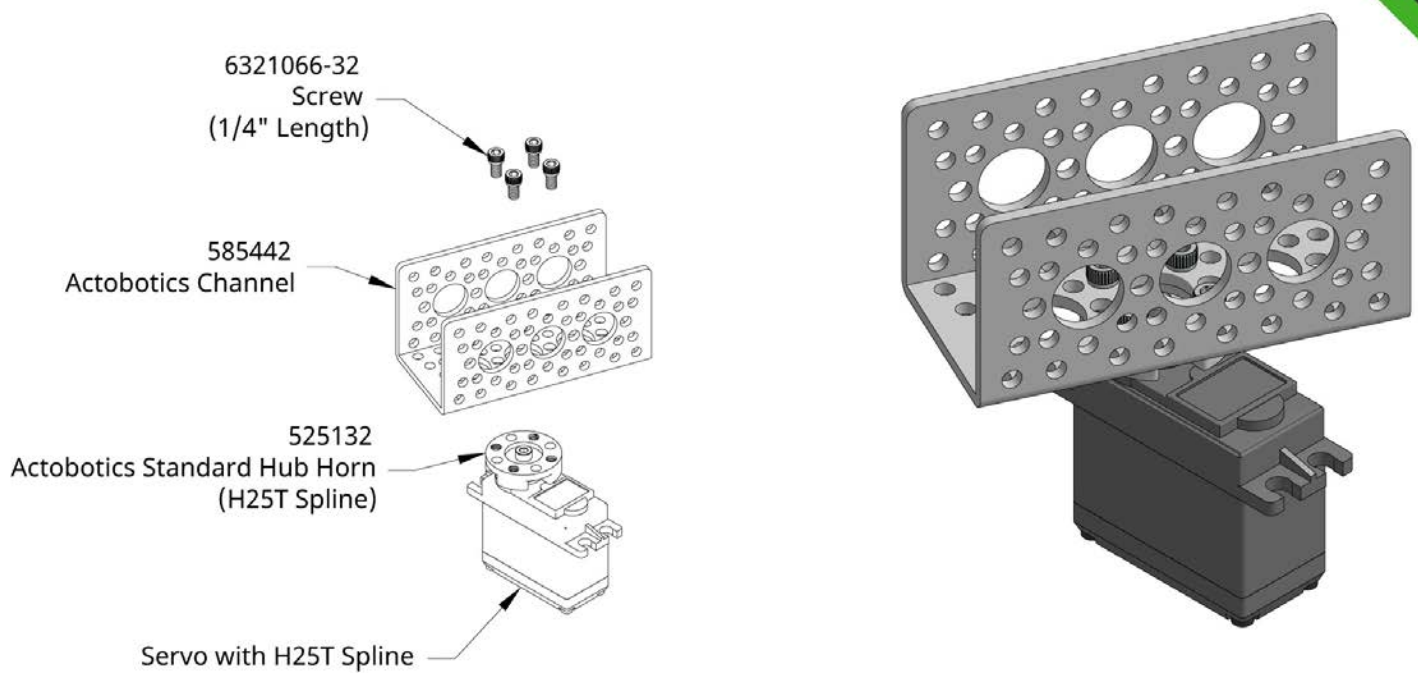
525132 Product Insight #2

Using the counter-bore on the bottom of the 525132 allows it to be screwed directly to parts with 6-32 threads on the 0.770" Actobotics pattern. Actobotics channel can be stood up vertically, and directly driven from a servo with the use of a 545360.



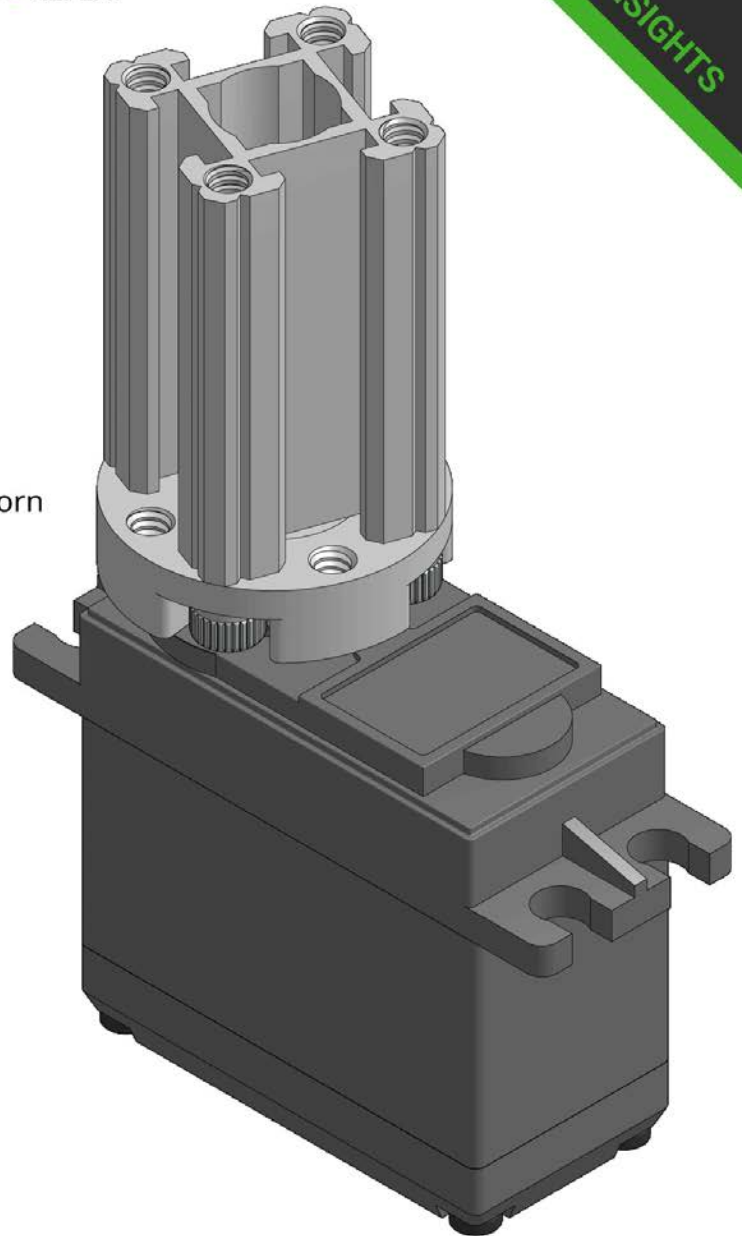
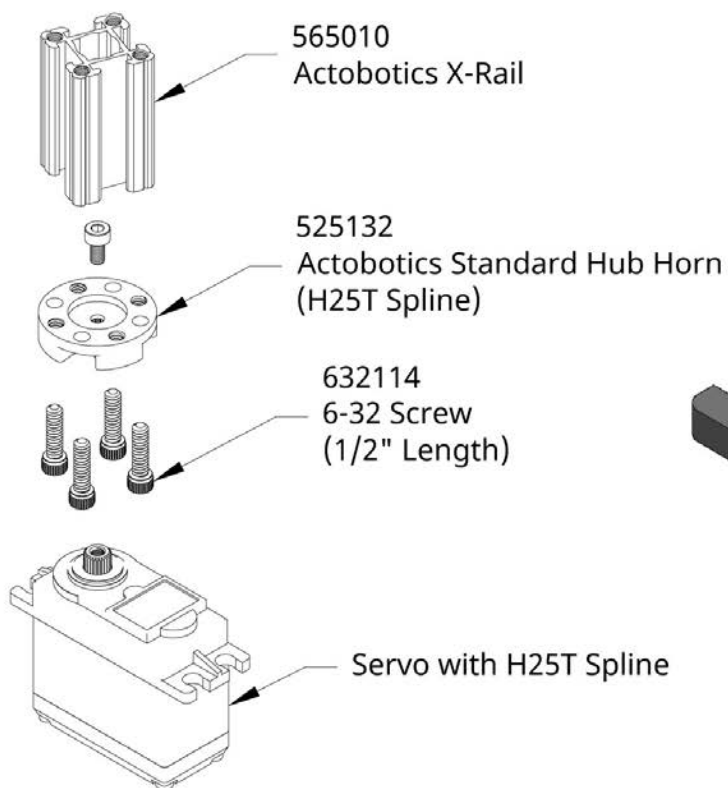
525132 Product Insight #3

Using the counter-bore on the bottom of the 525132 allows it to be screwed directly to parts with 6-32 threads on the 0.770" Actobotics pattern. Actobotics channel can be mounted with its open end facing the servo and directly driven from a servo with the use of a 545360.



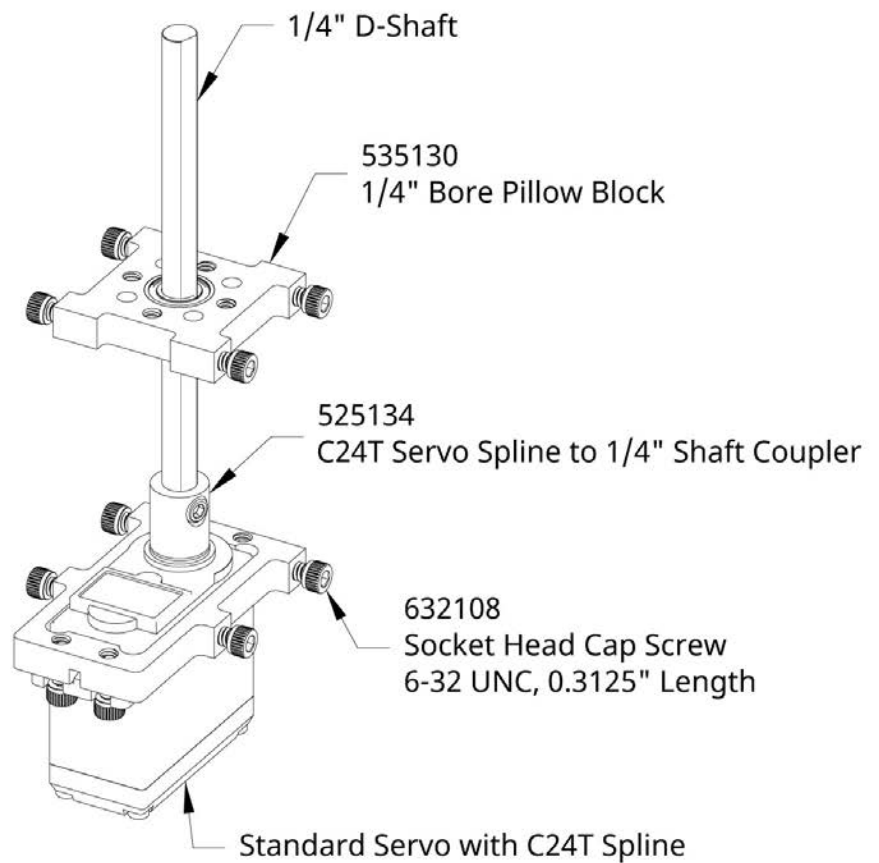
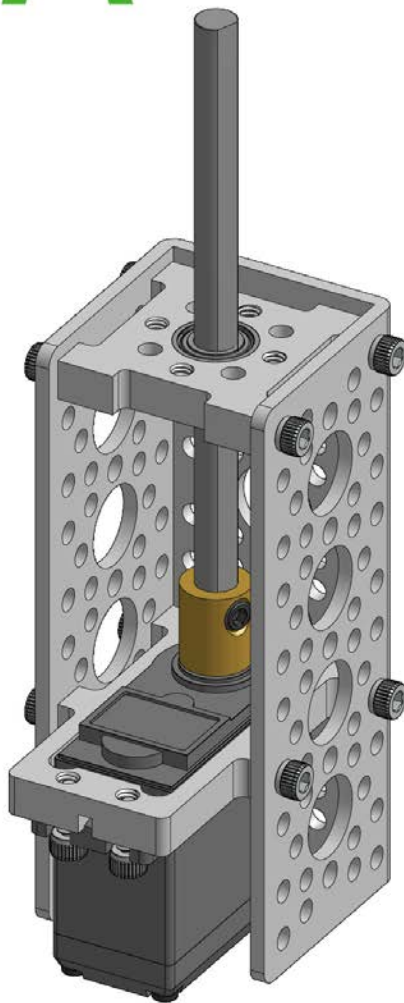
525132 Product Insight #4

Using the tapped holes in the 525132 allows parts with through holes on the 0.770" Actobotics pattern to be screwed directly to it.



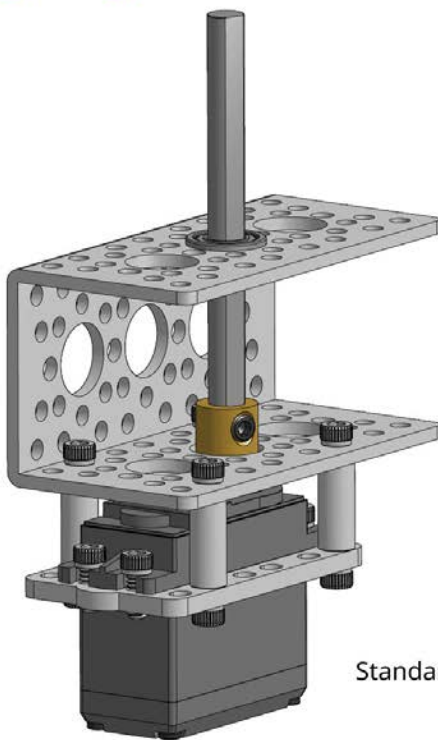
525132 Product Insight #5

Using the counter-bore on the bottom of the 525132 allows X-Rail to screw directly to it. Since the X-Rail will fit into a 1" diameter bearing, the X-Rail can be used as a radially supported shaft being directly driven from the servo.

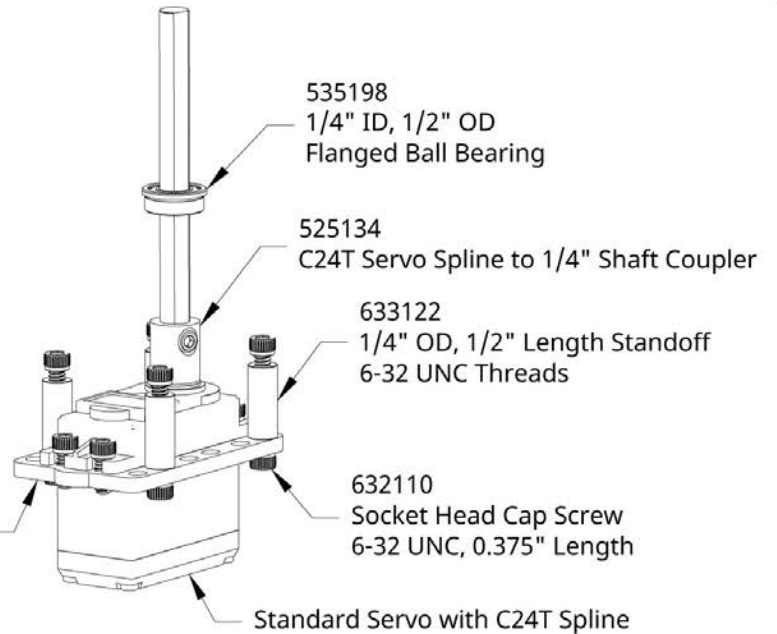


525134 Product Insight #2

A servo can be mounted inside of Actobotics channel and directly drive a 1/4" Shaft that is supported radially by a pillow block. This allows for driving heavy loads with a servo.

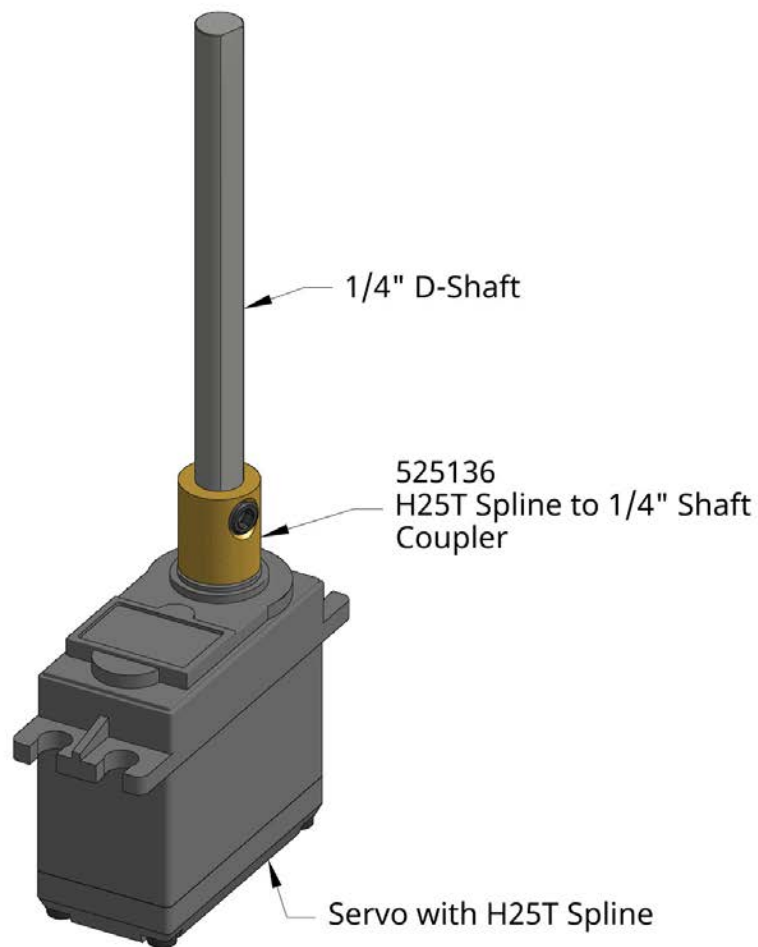


575112
Standard Servo Plate A



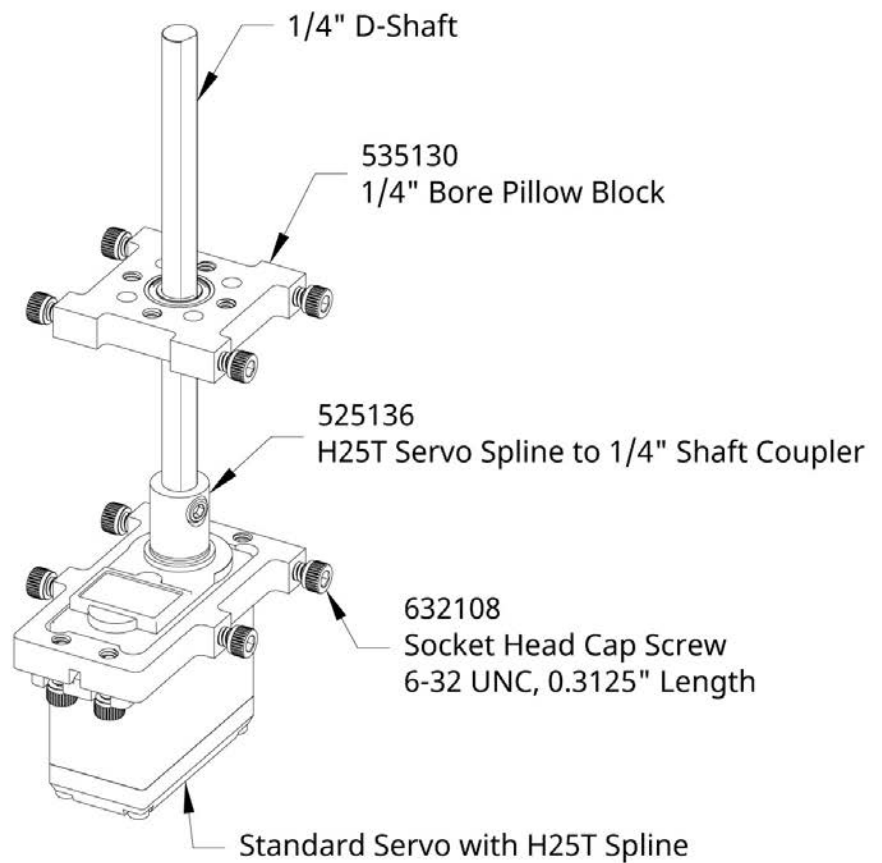
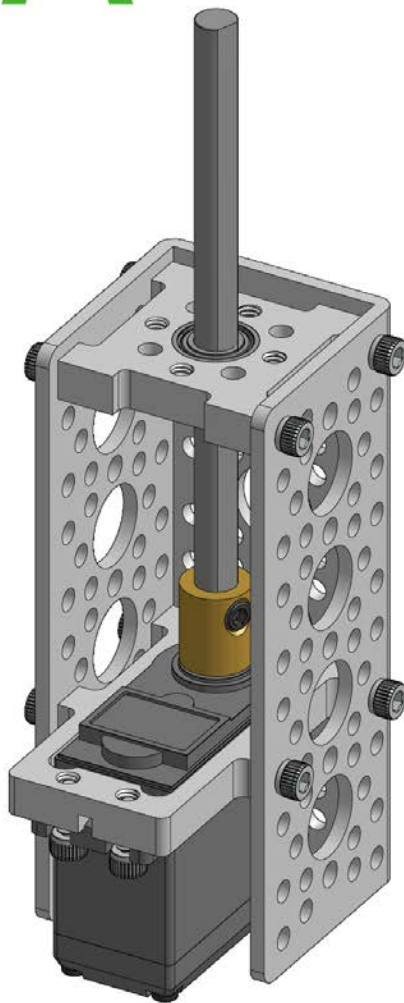
525134 Product Insight #3

A servo can be mounted to a sidewall of Actobotics channel with standoffs and directly drive a 1/4" Shaft that is supported radially by the flanged ball bearing that is mounted in the Actobotics channel. This allows for driving heavy loads with a servo.



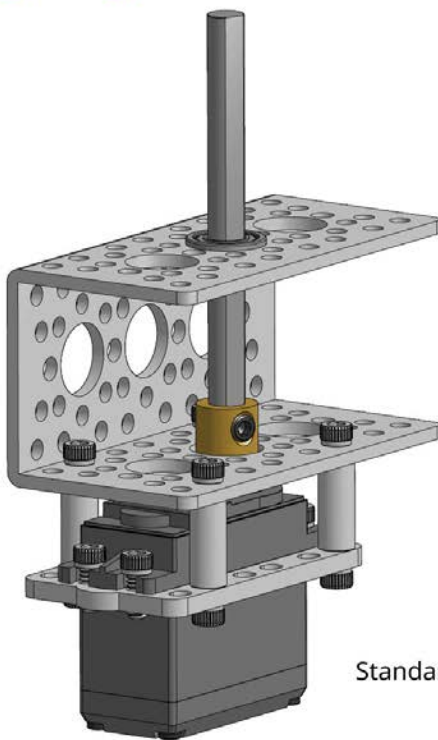
525136 Product Insight #1

Driving a 1/4" shaft directly from the servo is made possible with the H25T to 1/4" Shaft Coupler.

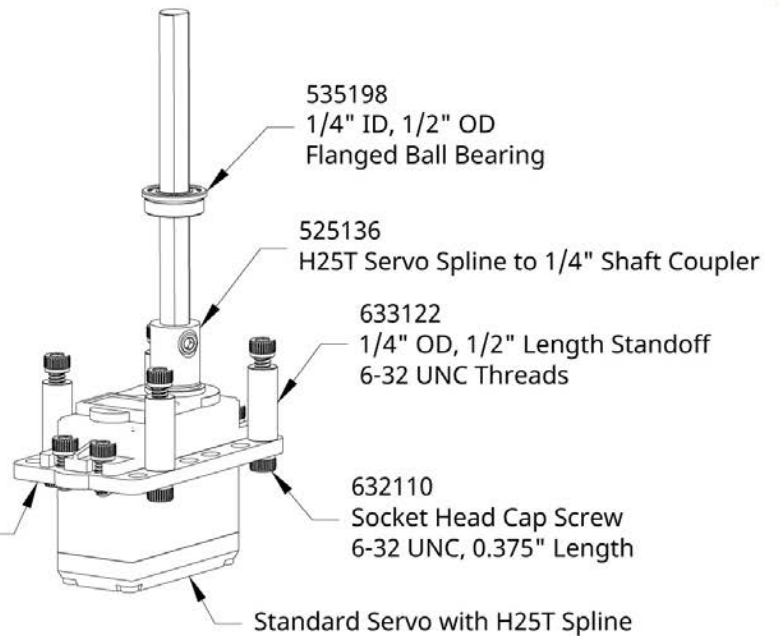


525136 Product Insight #2

A servo can be mounted inside of Actobotics channel and directly drive a 1/4" Shaft that is supported radially by a pillow block. This allows for driving heavy loads with a servo.



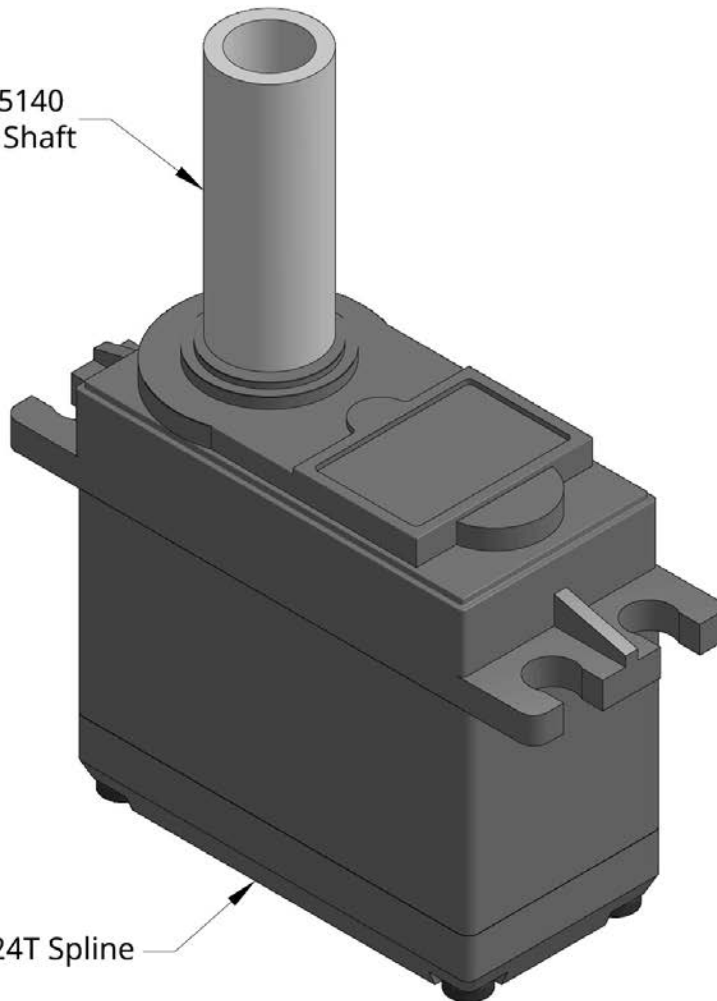
575112
Standard Servo Plate A



525136 Product Insight #3

A servo can be mounted to a sidewall of Actobotics channel with standoffs and directly drive a 1/4" Shaft that is supported radially by the flanged ball bearing that is mounted in the Actobotics channel. This allows for driving heavy loads with a servo.

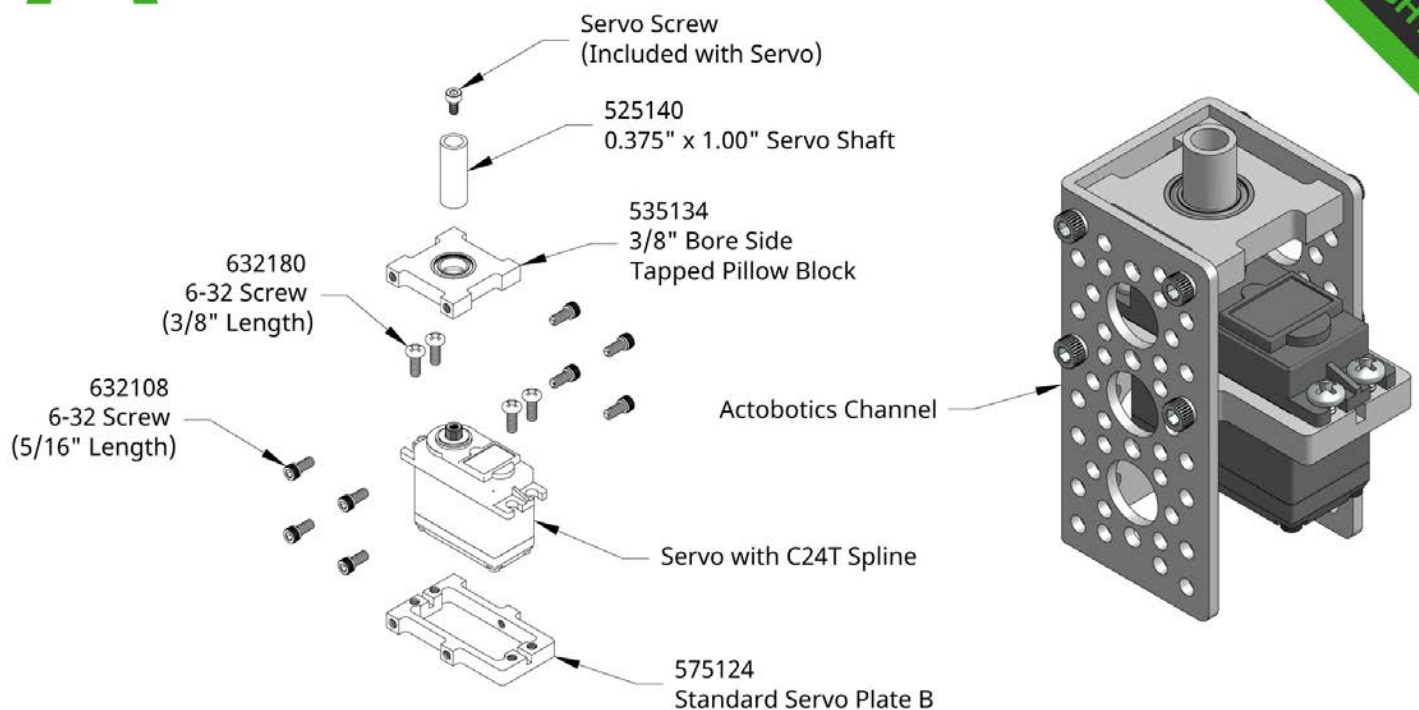
525140
0.375" x 1.00" Servo Shaft



Servo with C24T Spline

525140 Product Insight #1

A 525140 is a great way to adapt a splined servo output into a 0.375" diameter shaft.

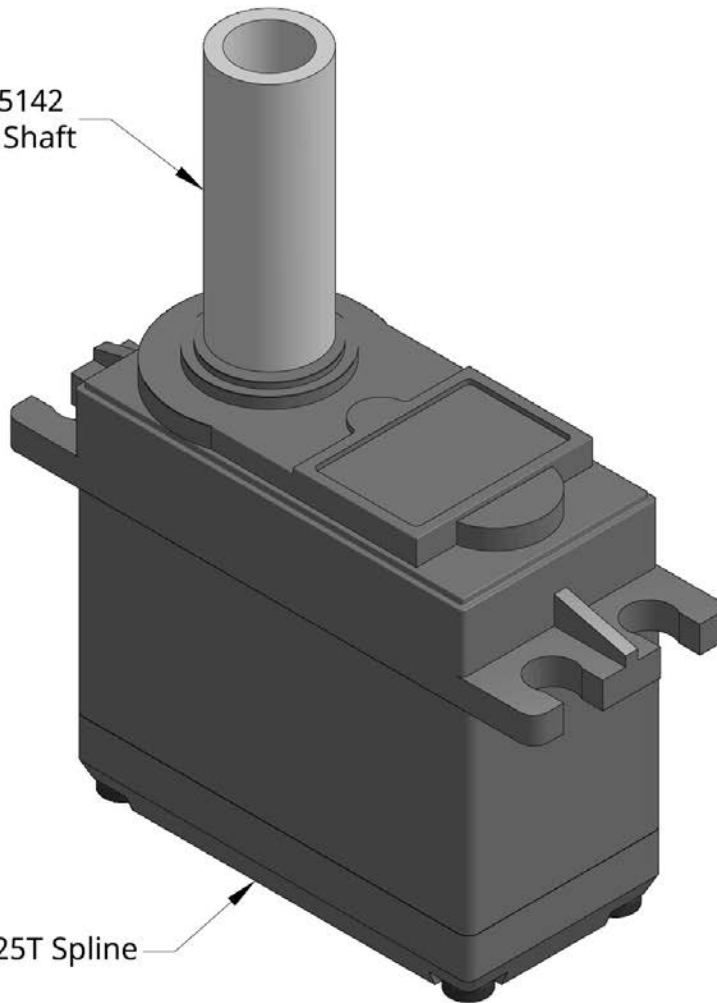


525140 Product Insight #2

A servo can be mounted inside of Actobotics channel and the 525140 Servo shaft can be radially supported by a pillow block. This allows the servo to drive heavy loads.

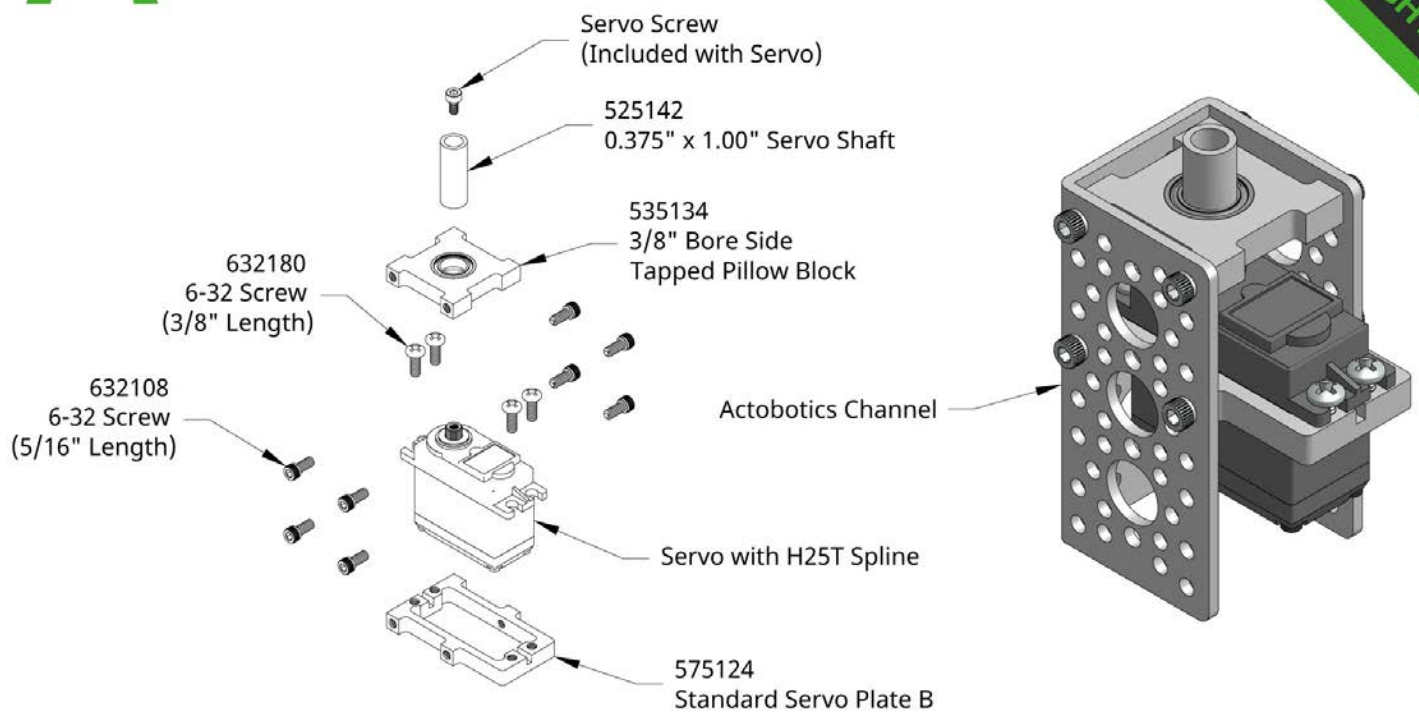
525142
0.375" x 1.00" Servo Shaft

Servo with H25T Spline



525142 Product Insight #1

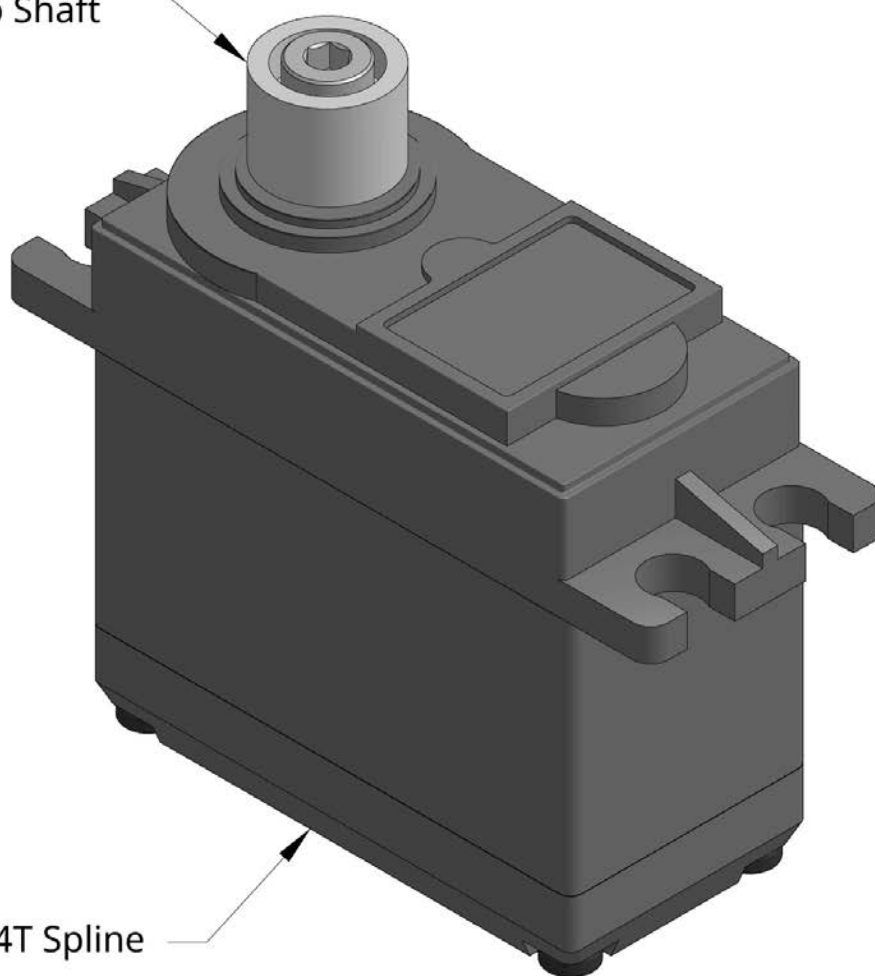
A 525142 is a great way to adapt a splined servo output into a 0.375" diameter shaft.



525142 Product Insight #2

A servo can be mounted inside of Actobotics channel and the 525142 Servo shaft can be radially supported by a pillow block. This allows the servo to drive heavy loads.

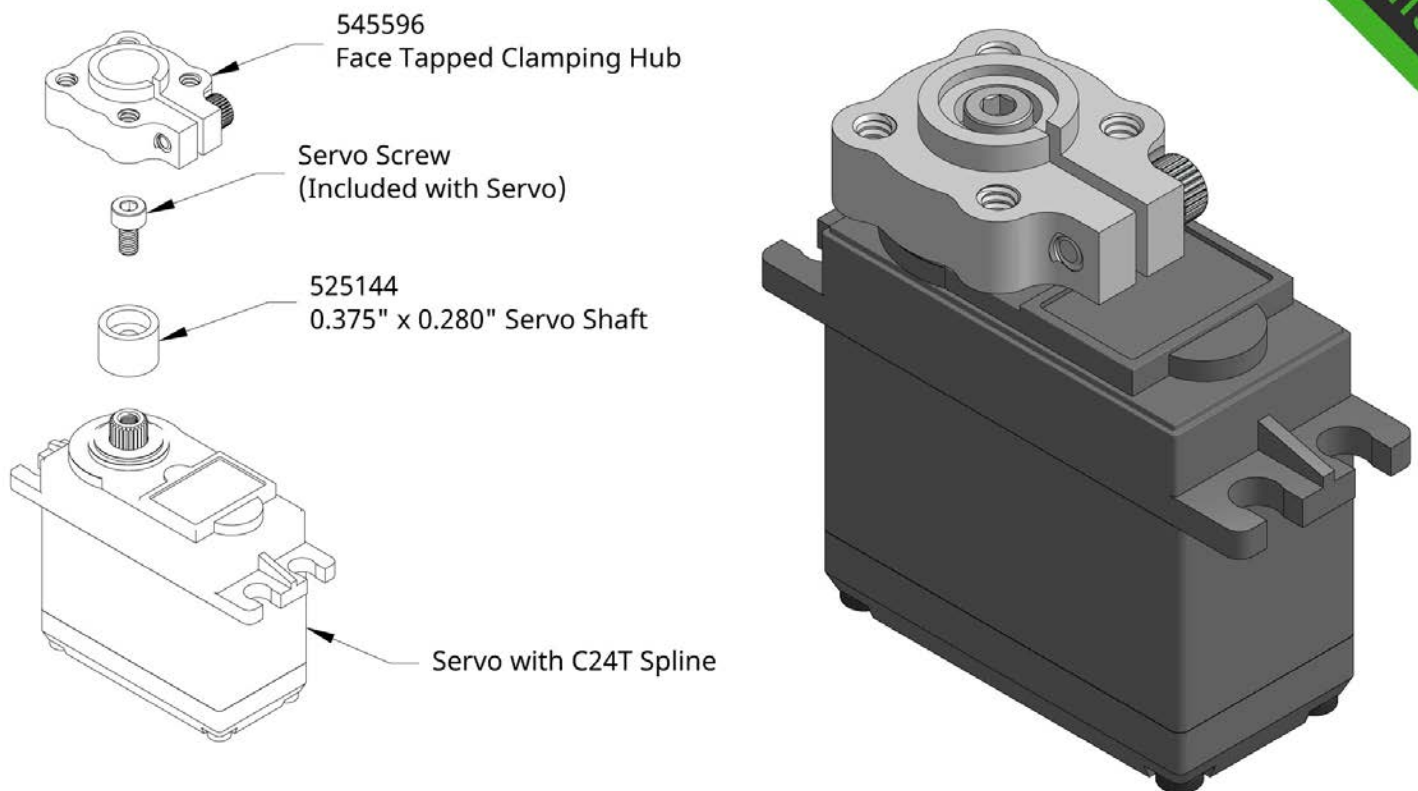
525144
0.375" x 0.280" Servo Shaft



Servo with C24T Spline

525144 Product Insight #1

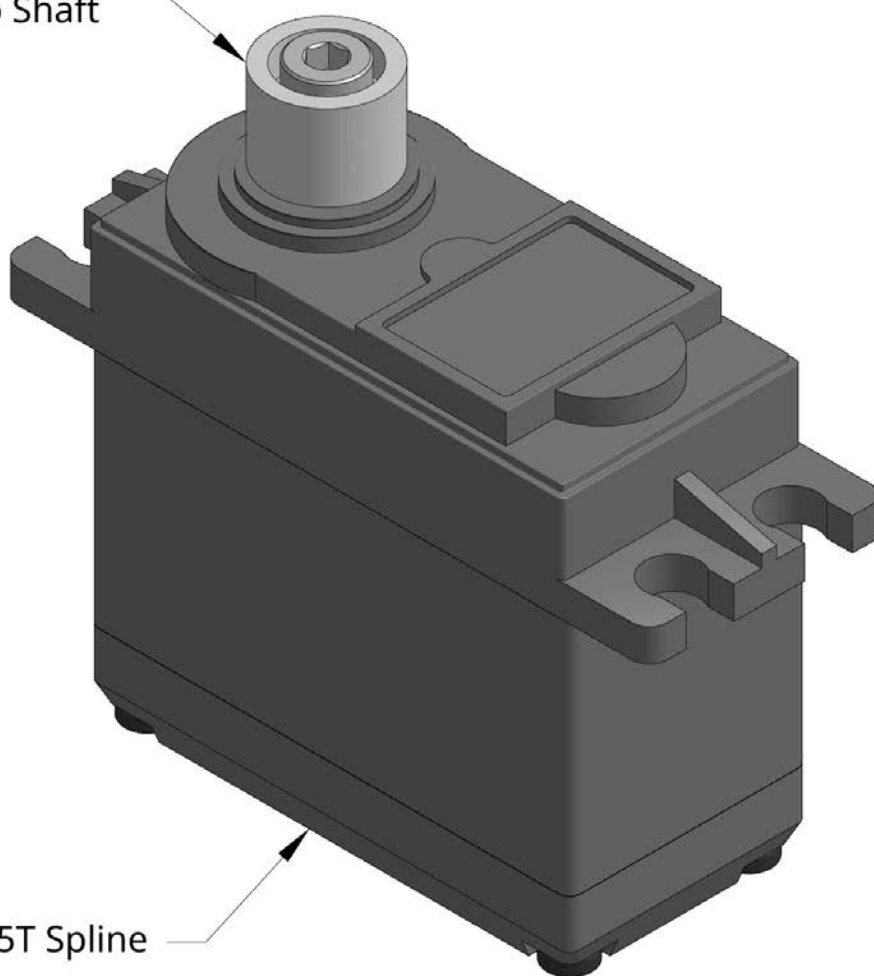
A great way to adapt a splined servo output to a stubby 0.375" shaft.



525144 Product Insight #2

Great for low clearance applications when used with a 3/8" clamping hub. The servo shaft and servo screw are below the surface of the clamping hub when installed.

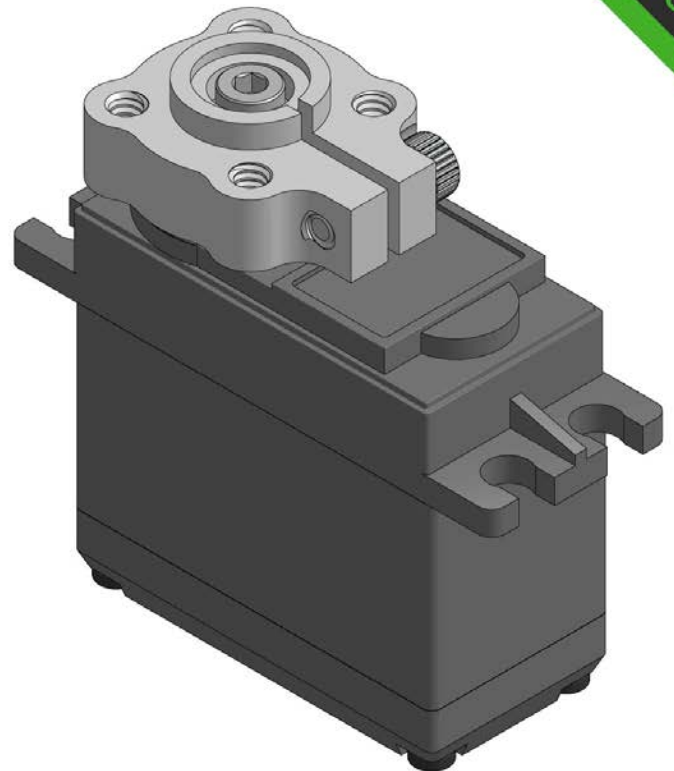
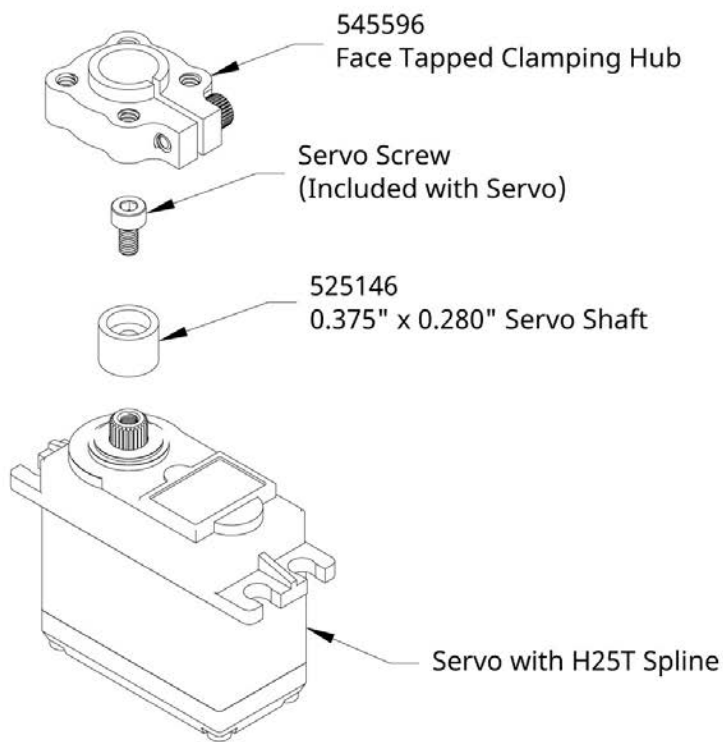
525146
0.375" x 0.280" Servo Shaft



Servo with H25T Spline

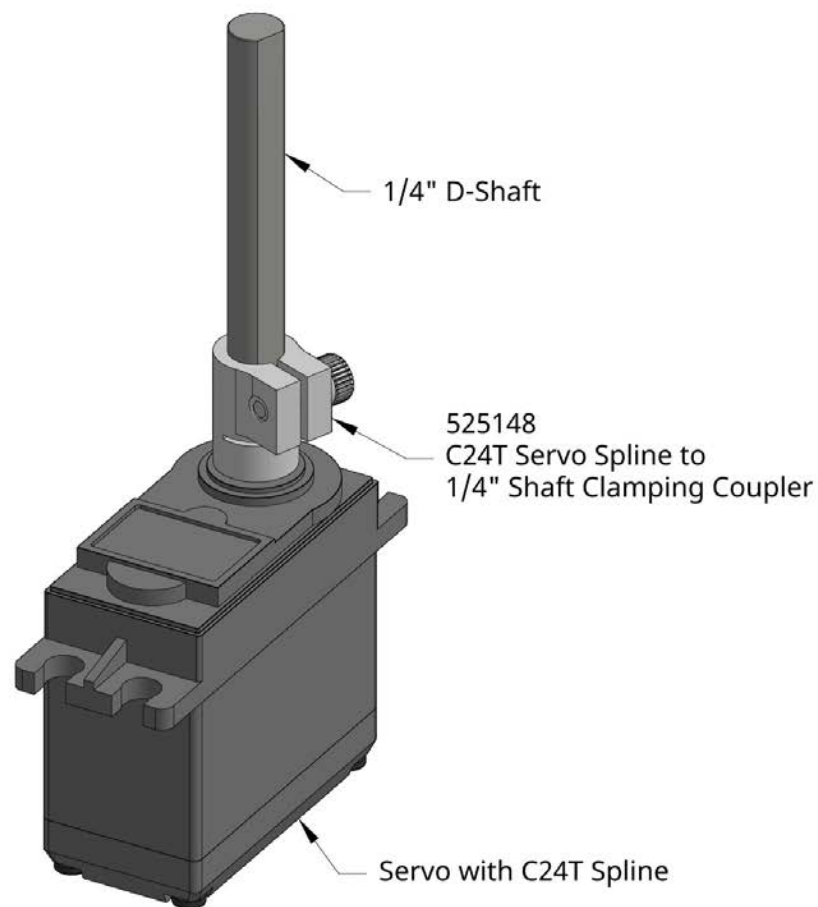
525146 Product Insight #1

A great way to adapt a splined servo output to a stubby 0.375" shaft.



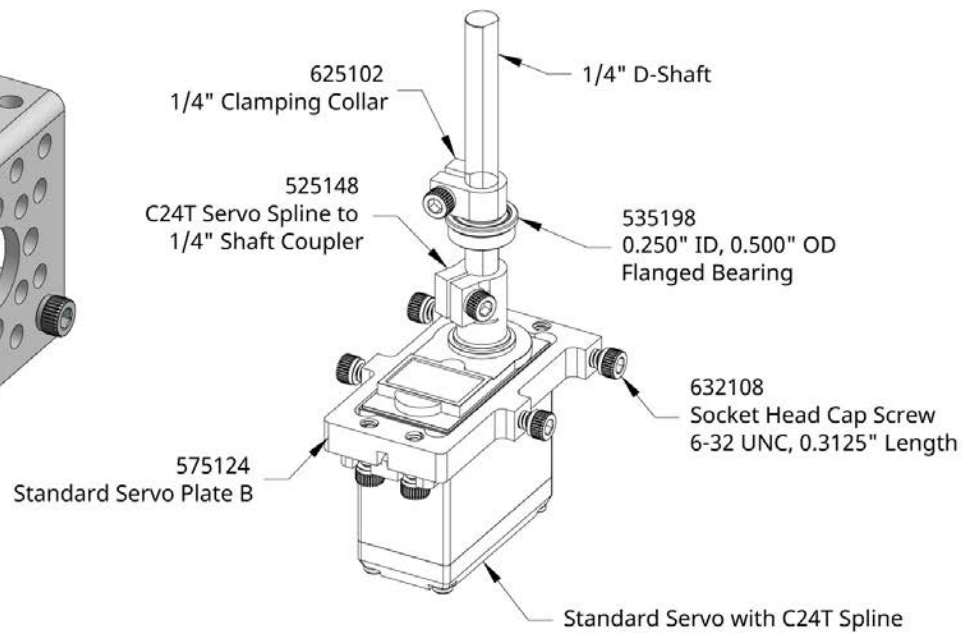
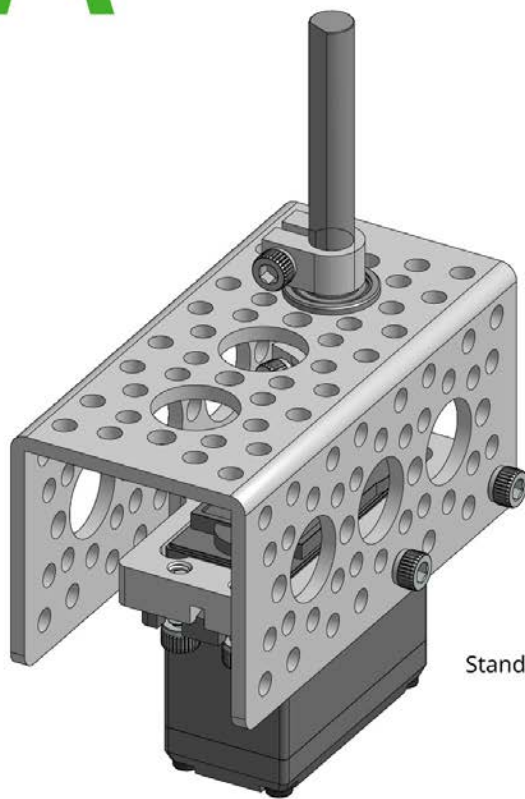
525146 Product Insight #2

Great for low clearance applications when used with a 3/8" clamping hub. The servo shaft and servo screw are below the surface of the clamping hub when installed.



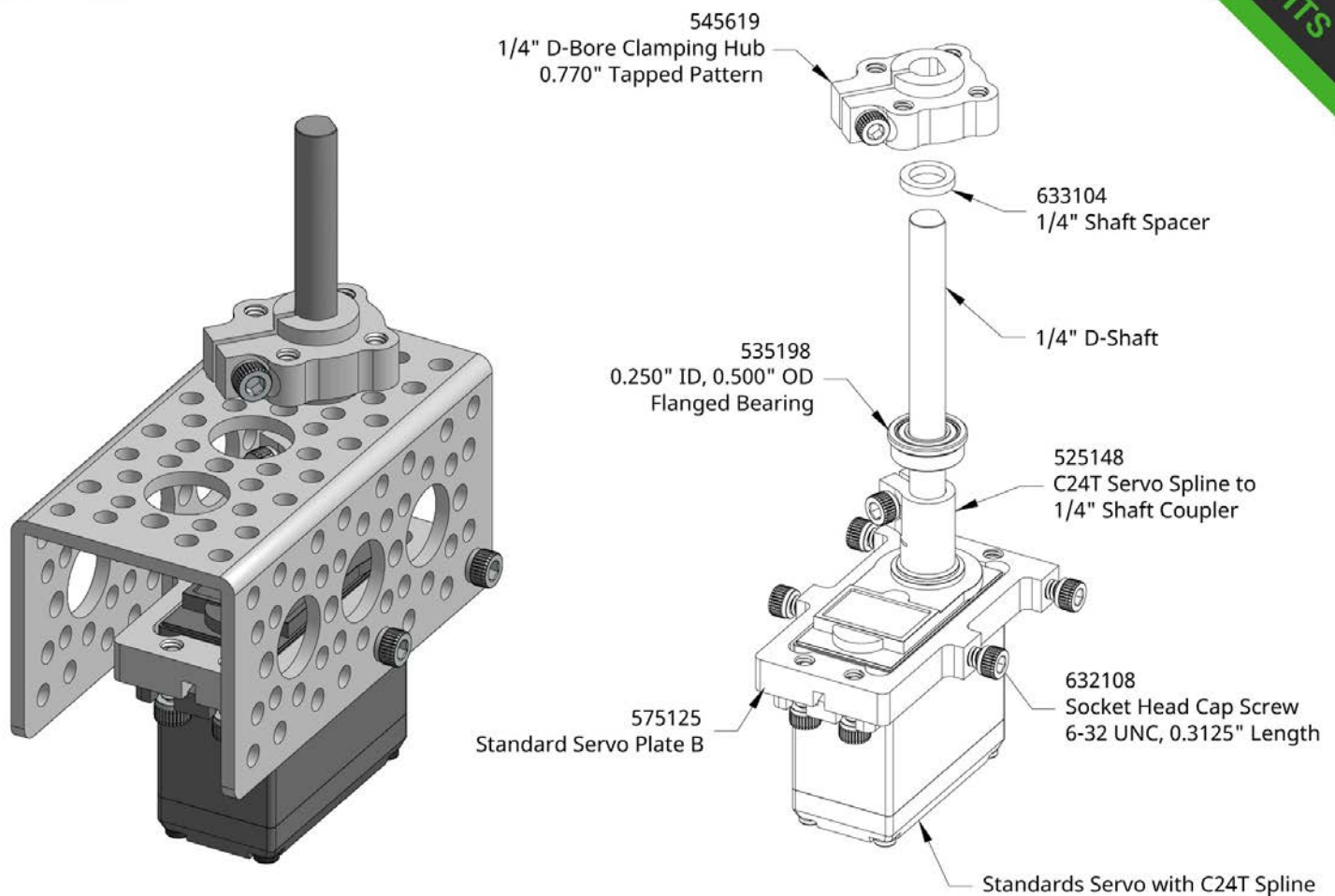
525148 Product Insight #1

The 525148 is an excellent way to adapt a servo's splined output to 1/4" shaft.



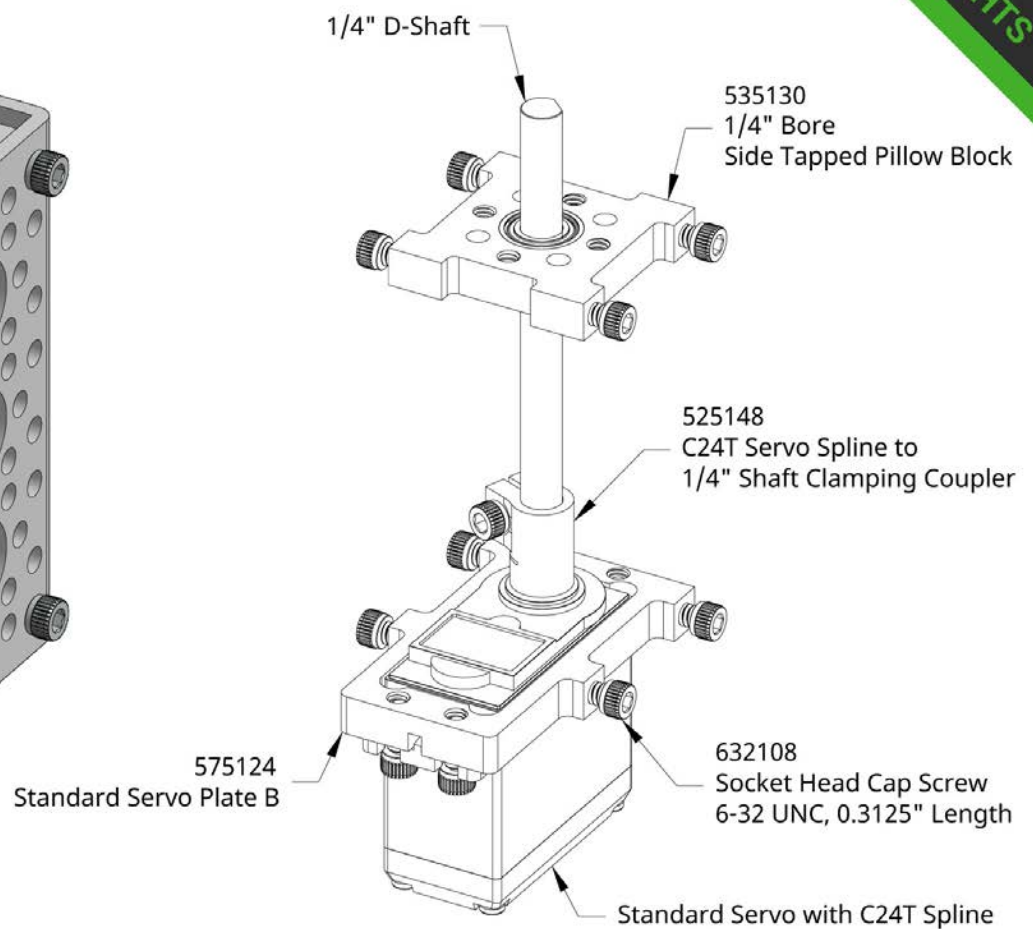
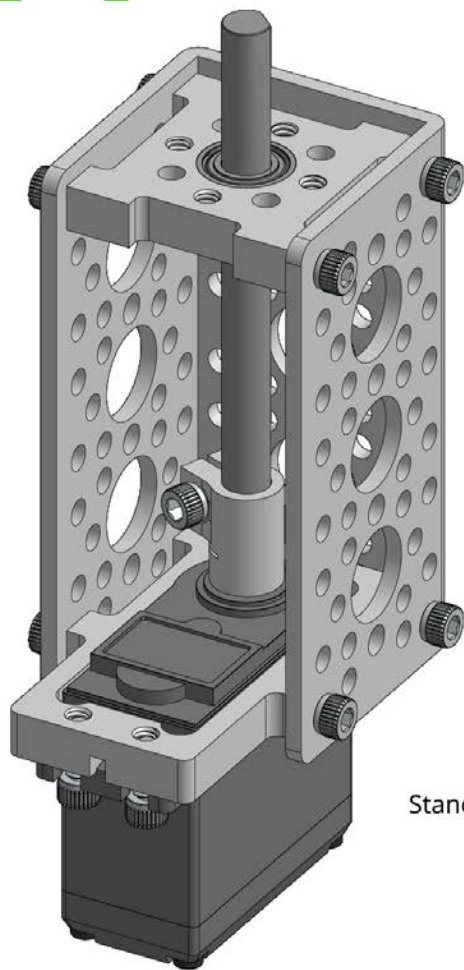
525148 Product Insight #2

A servo can be mounted on the open side of Actobotics Channel and directly drive a 1/4" shaft with the 525148. This allows the shaft to be radially supported with a flanged bearing that is installed into the 1/2" hole in the channel.



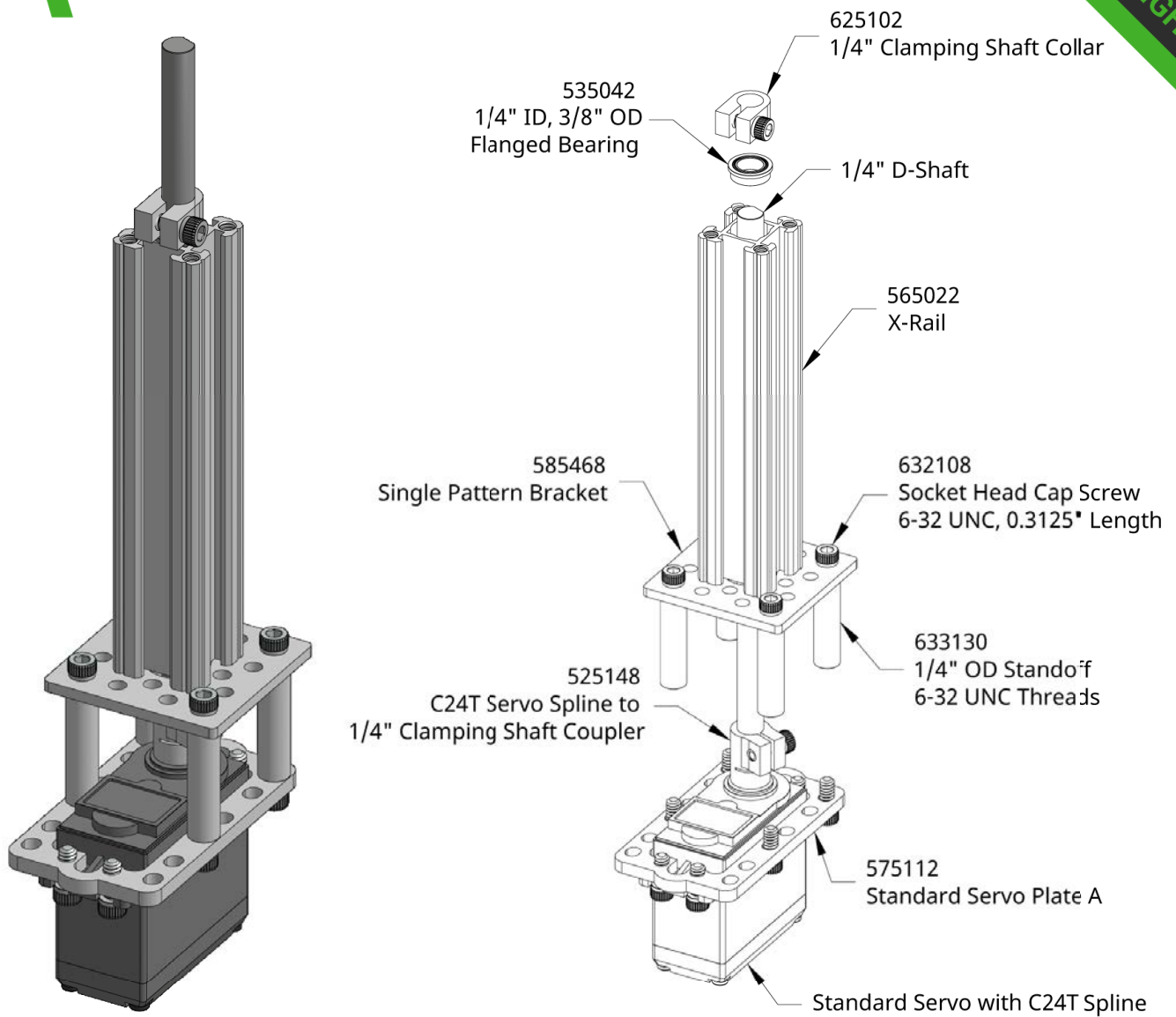
525148 Product Insight #3

A servo can be mounted on the open side of Actobotics Channel and directly drive a 1/4" shaft with the 525148. Adding a clamping hub to the radially supported 1/4" shaft allows a wide range of Actobotics parts with the 0.770" pattern to be driven by the servo.



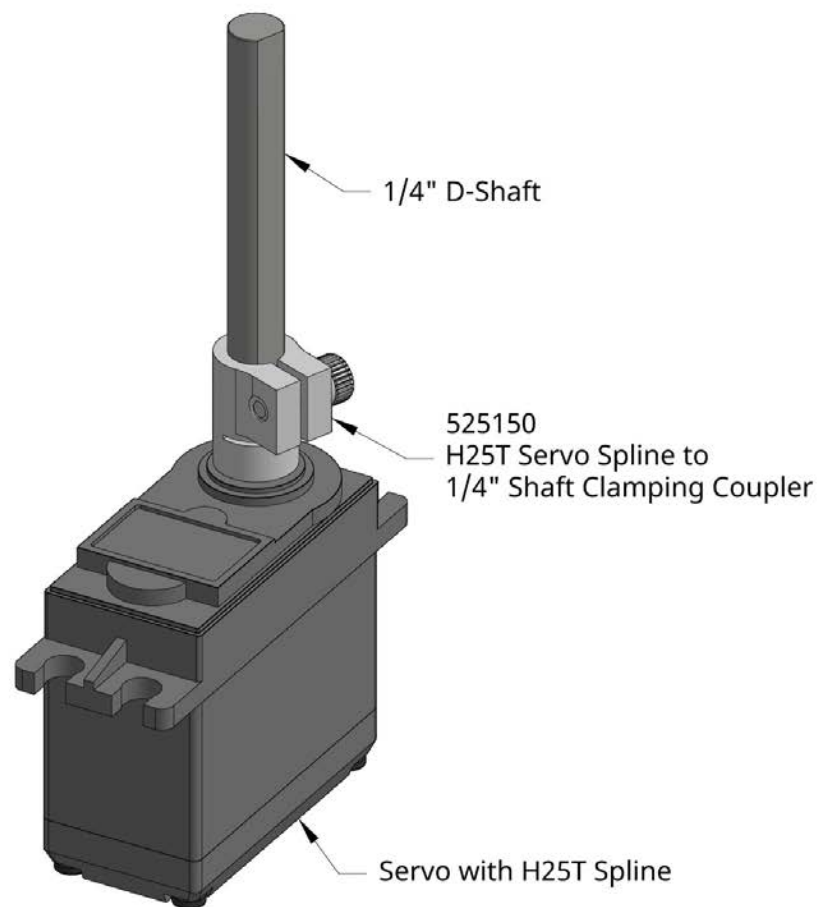
525148 Product Insight #4

A servo can be mounted in the end of Actobotics Channel making it easy for servo motion control to span long distances with a 1/4" shaft since the shaft is radially supported by a pillow block.



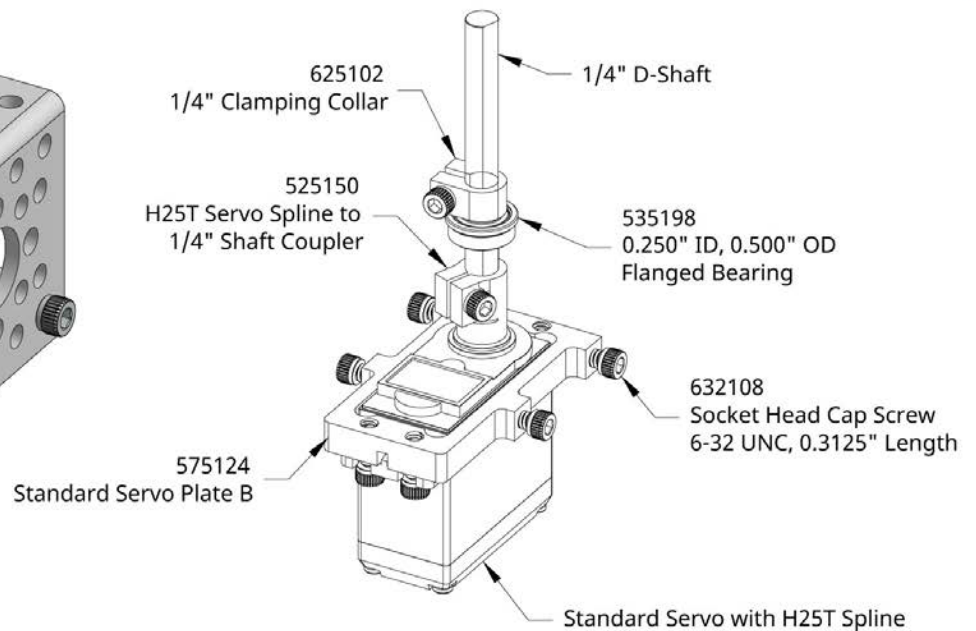
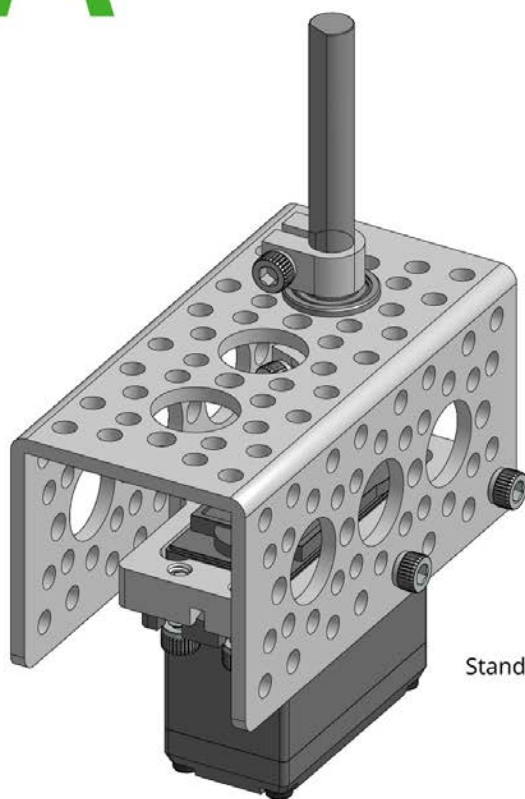
525148 Product Insight #5

Driving a shaft with a servo over long spans is possible with the use of X-Rail. Since X-Rail accepts a flanged bearing, the 1/4" shaft can be radially supported away from the servo.



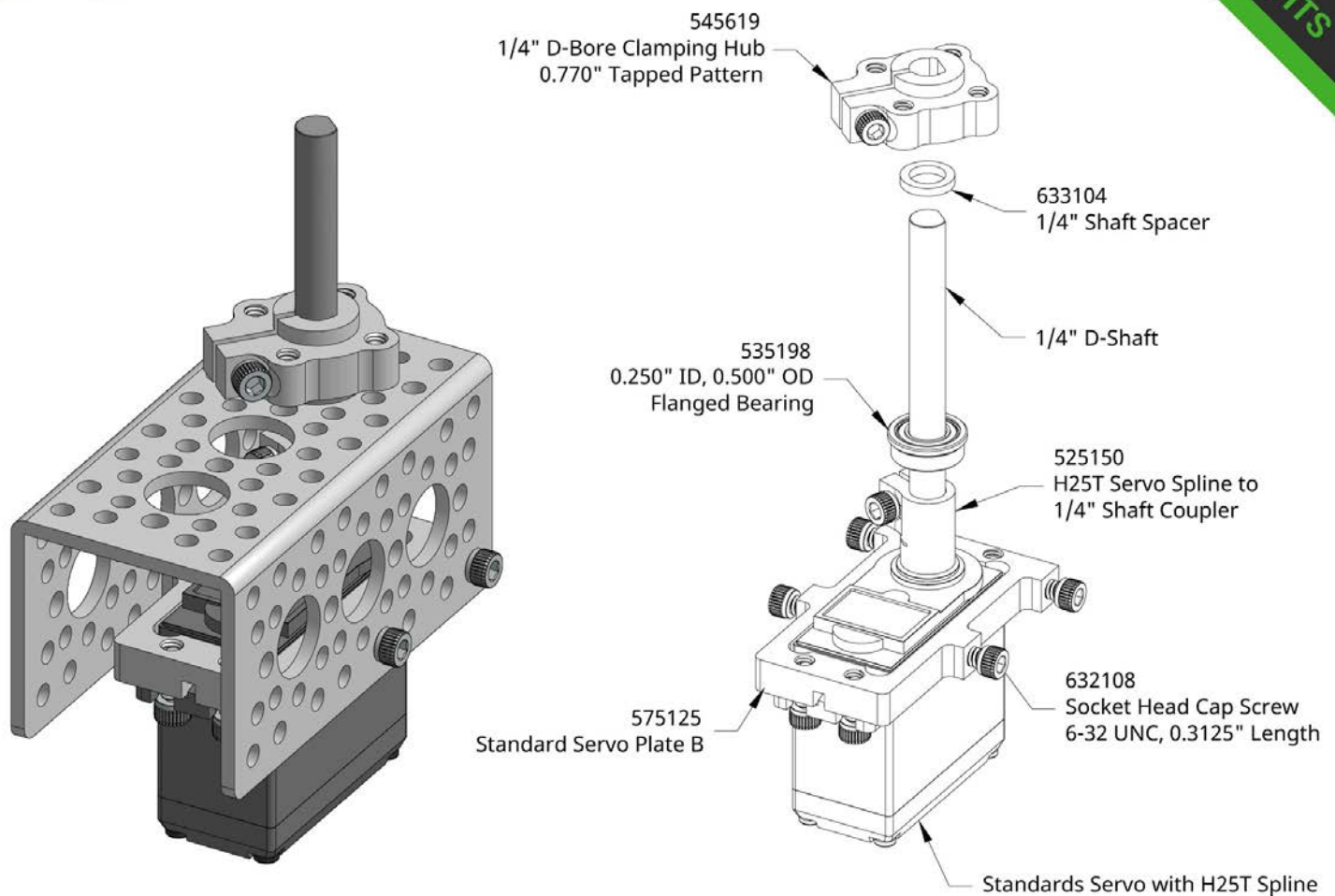
525150 Product Insight #1

The 525150 is an excellent way to adapt a servo's splined output to 1/4" shaft.



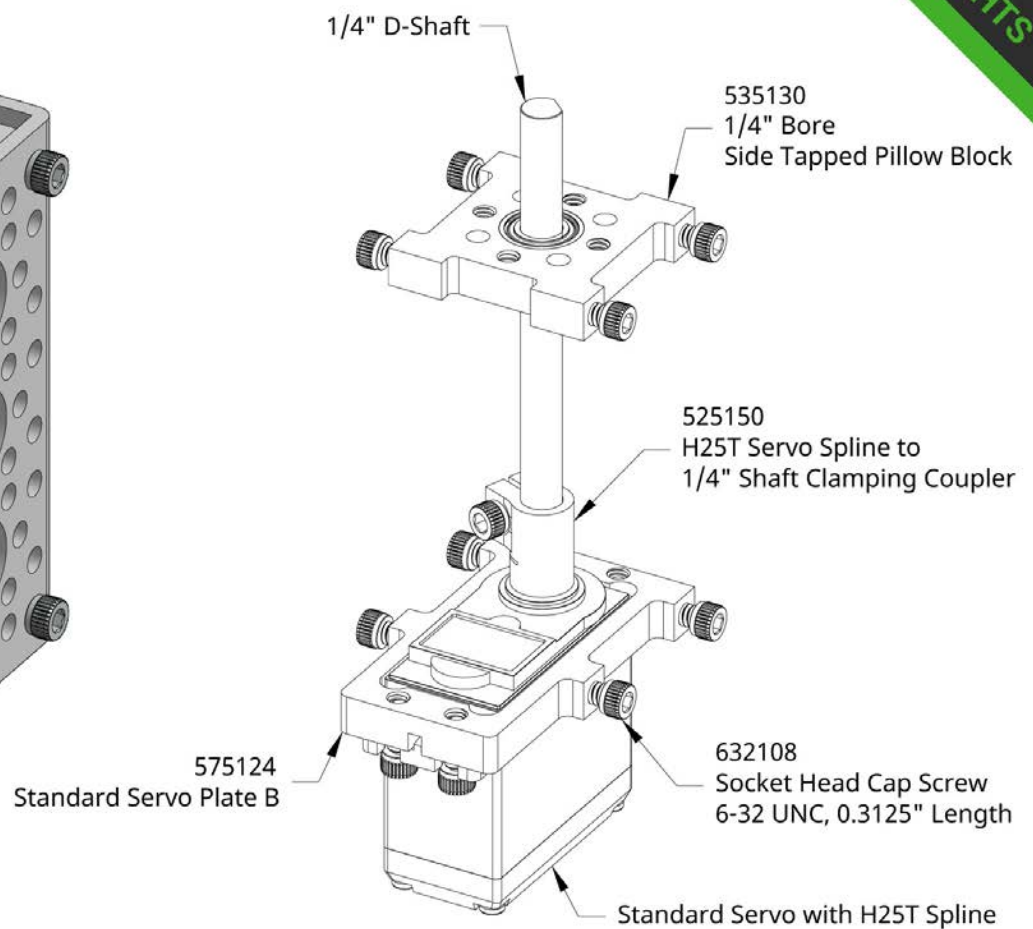
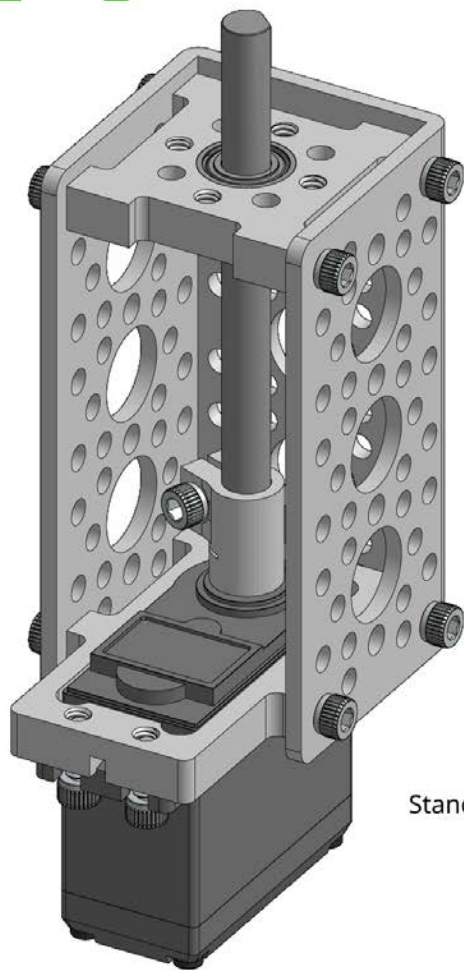
525150 Product Insight #2

A servo can be mounted on the open side of Actobotics Channel and directly drive a 1/4" shaft with the 525150. This allows the shaft to be radially supported with a flanged bearing that is installed into the 1/2" hole in the channel.



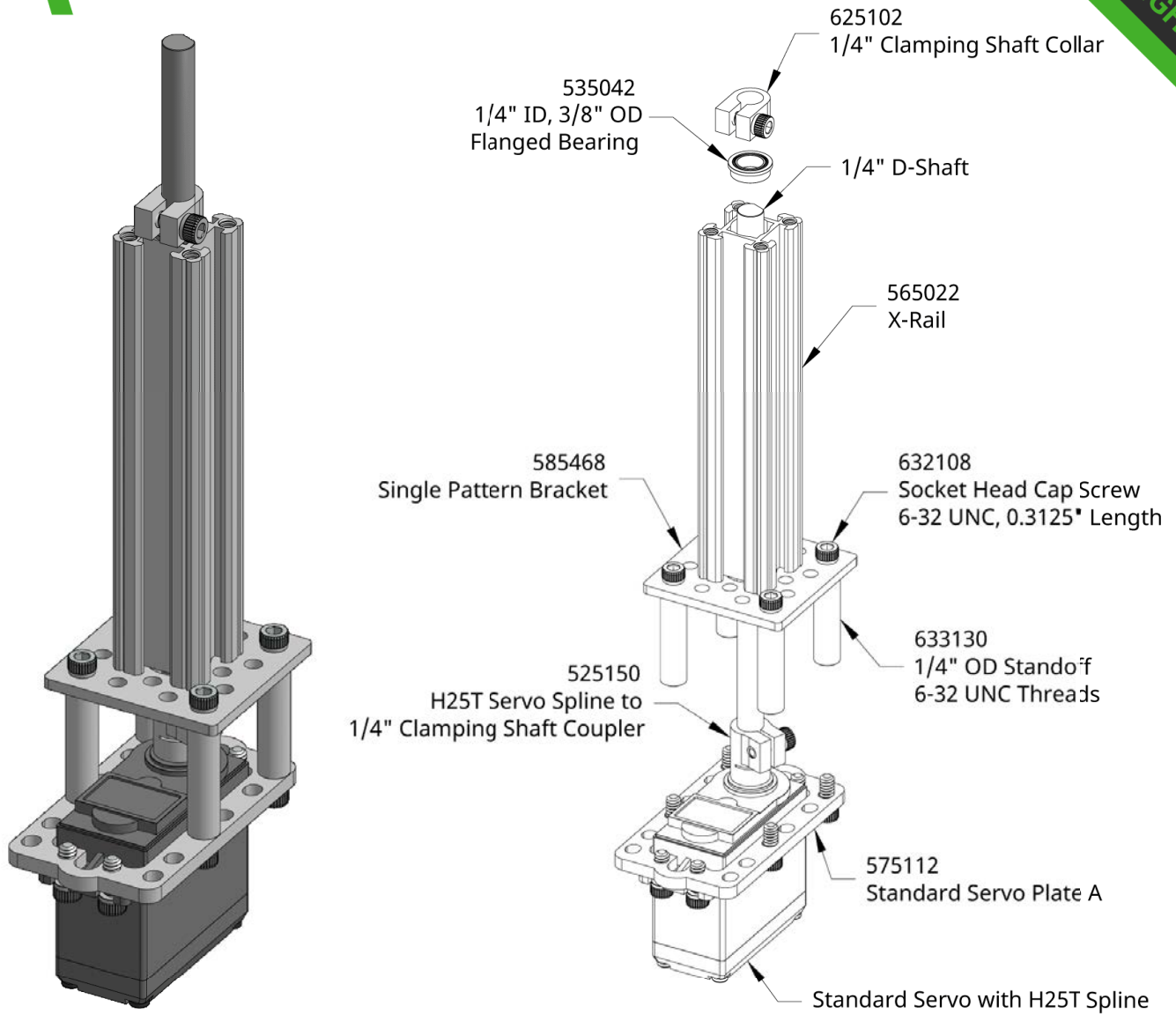
525150 Product Insight #3

A servo can be mounted on the open side of Actobotics Channel and directly drive a 1/4" shaft with the 525150. Adding a clamping hub to the radially supported 1/4" shaft allows a wide range of Actobotics parts with the 0.770" pattern to be driven by the servo.



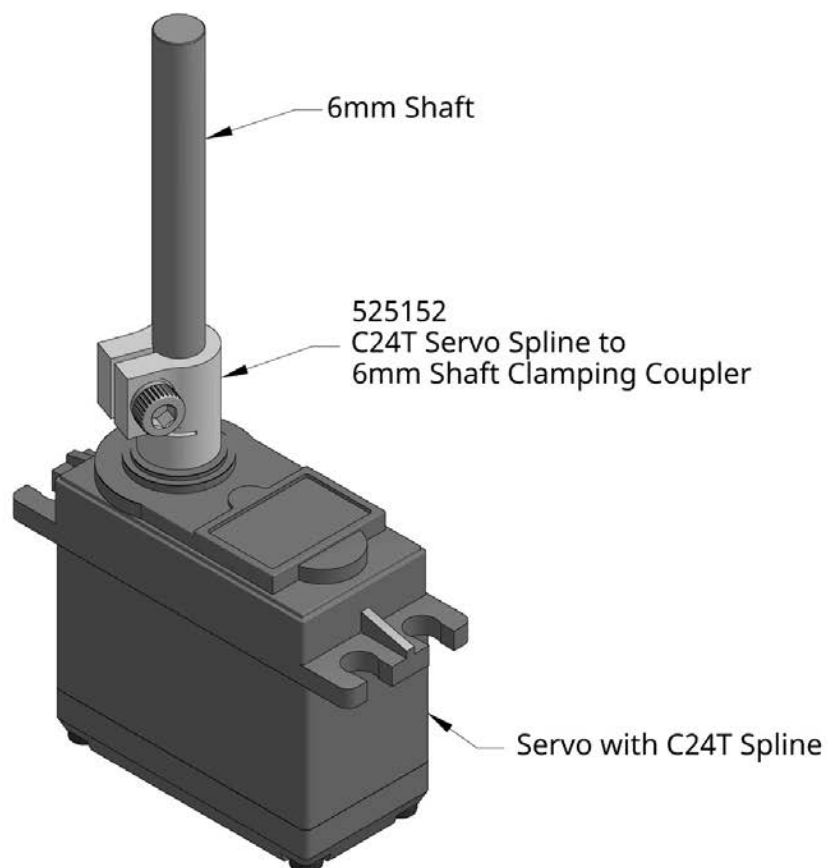
525150 Product Insight #4

A servo can be mounted in the end of Actobotics Channel making it easy for servo motion control to span long distances with a 1/4" shaft since the shaft is radially supported by a pillow block.



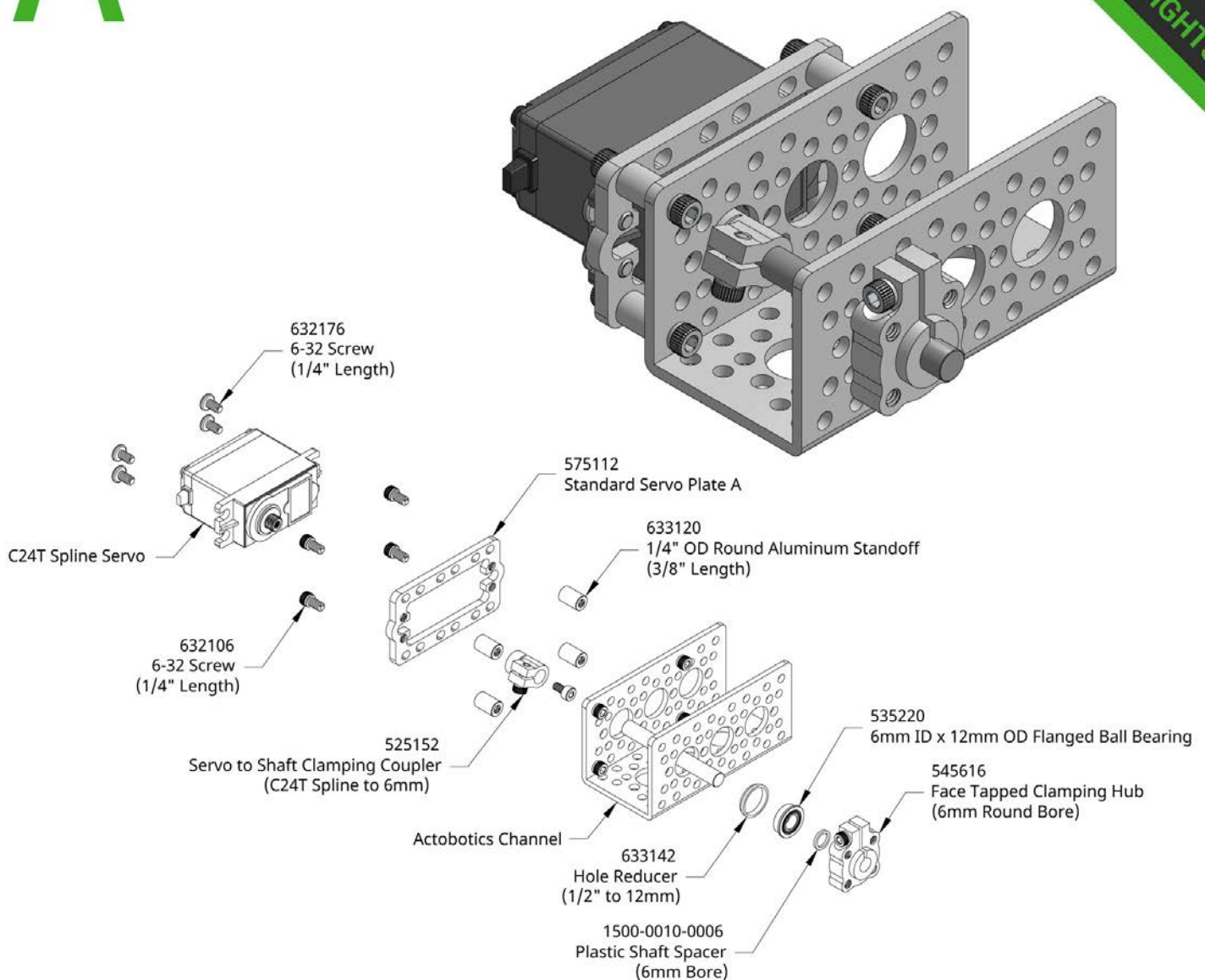
525150 Product Insight #5

Controlling a shaft, driven by a servo, over long spans is possible with the use of X-Rail. Since X-Rail accepts a flanged bearing, the 1/4" shaft can be radially supported away from the servo.



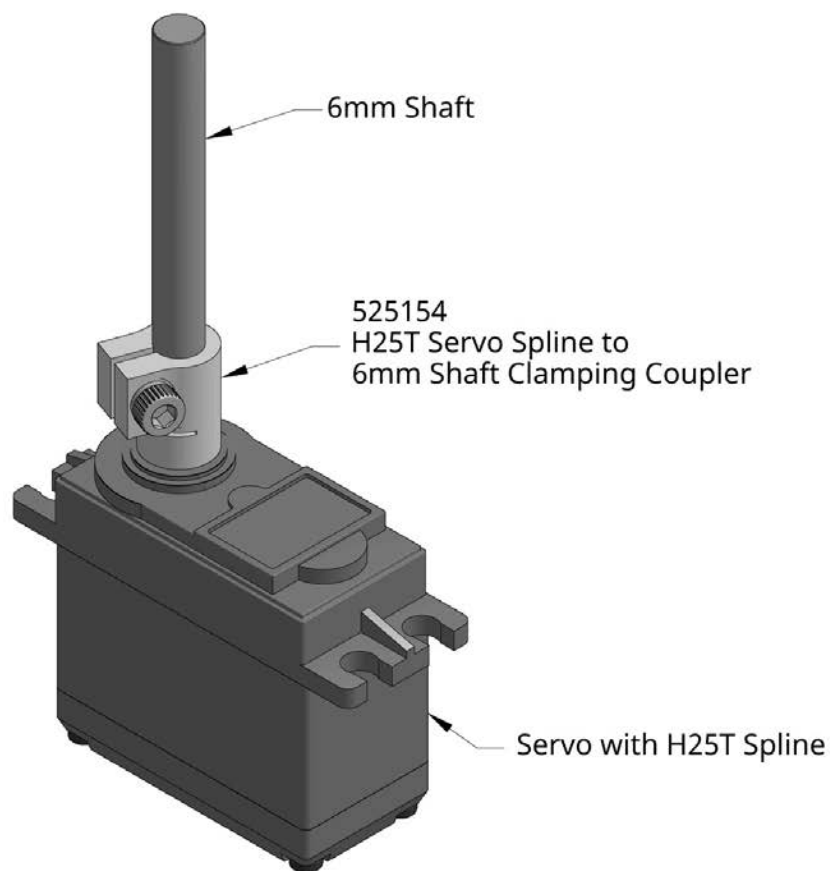
525152 Product Insight #1

The 525152 is a great way to adapt a servo's splined output to a 6mm shaft.



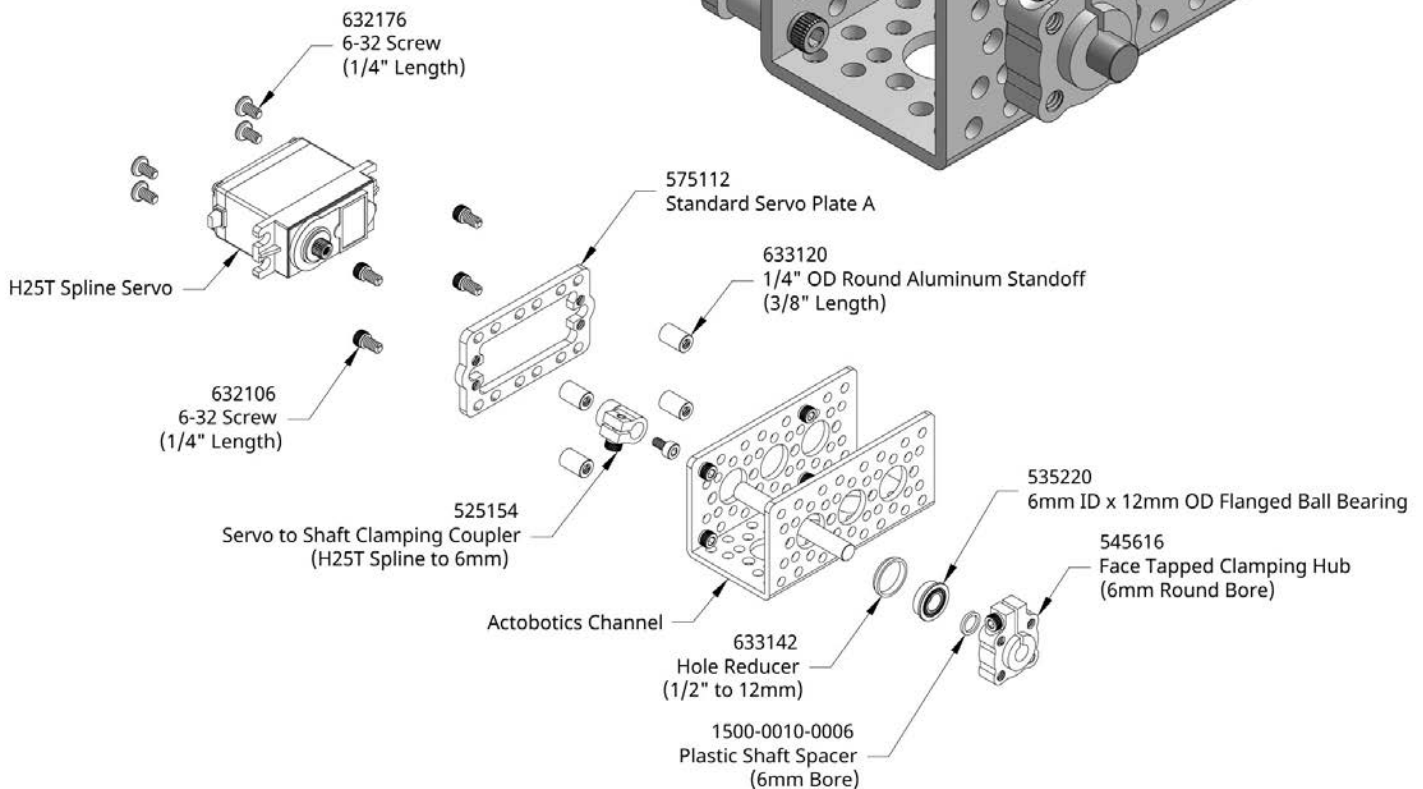
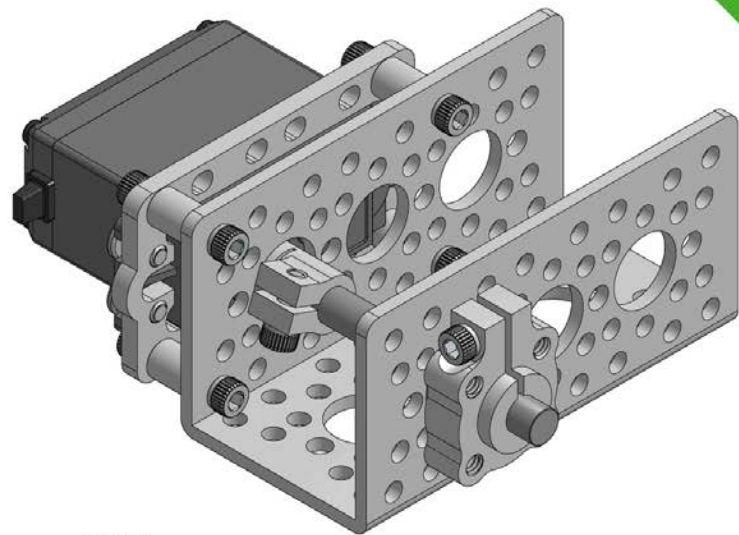
525152 Product Insight #2

A servo can be mounted to the sidewall of Actobotics channel and directly drive a 6mm shaft. By supporting the shaft with a flanged ball bearing on the opposite side of the channel, large loads can be supported. A clamping hub can be attached to the shaft which gives servo control any Actobotics part with the 0.770" pattern.



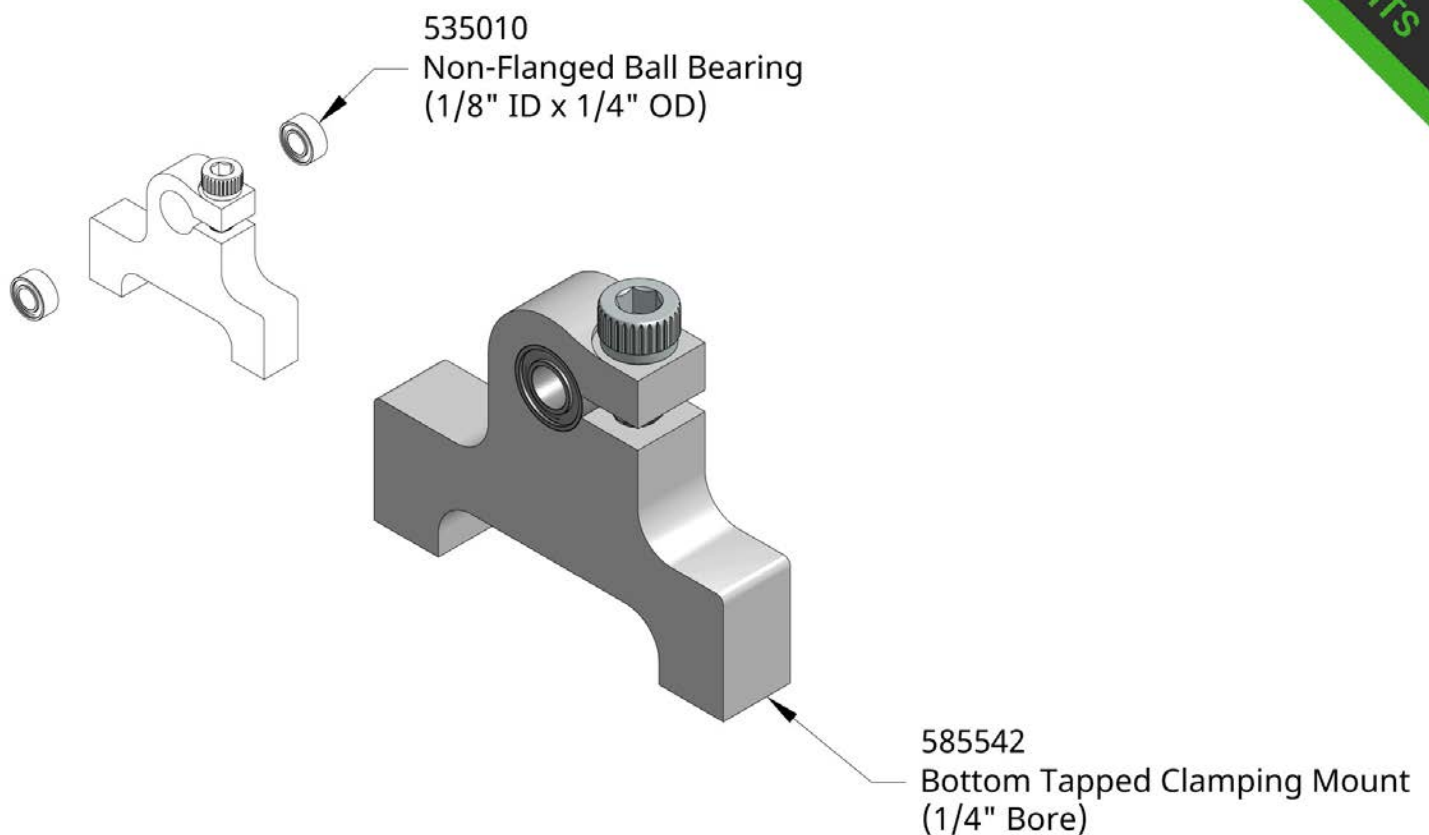
525154 Product Insight #1

The 525154 is a great way to adapt a servo's splined output to a 6mm shaft.



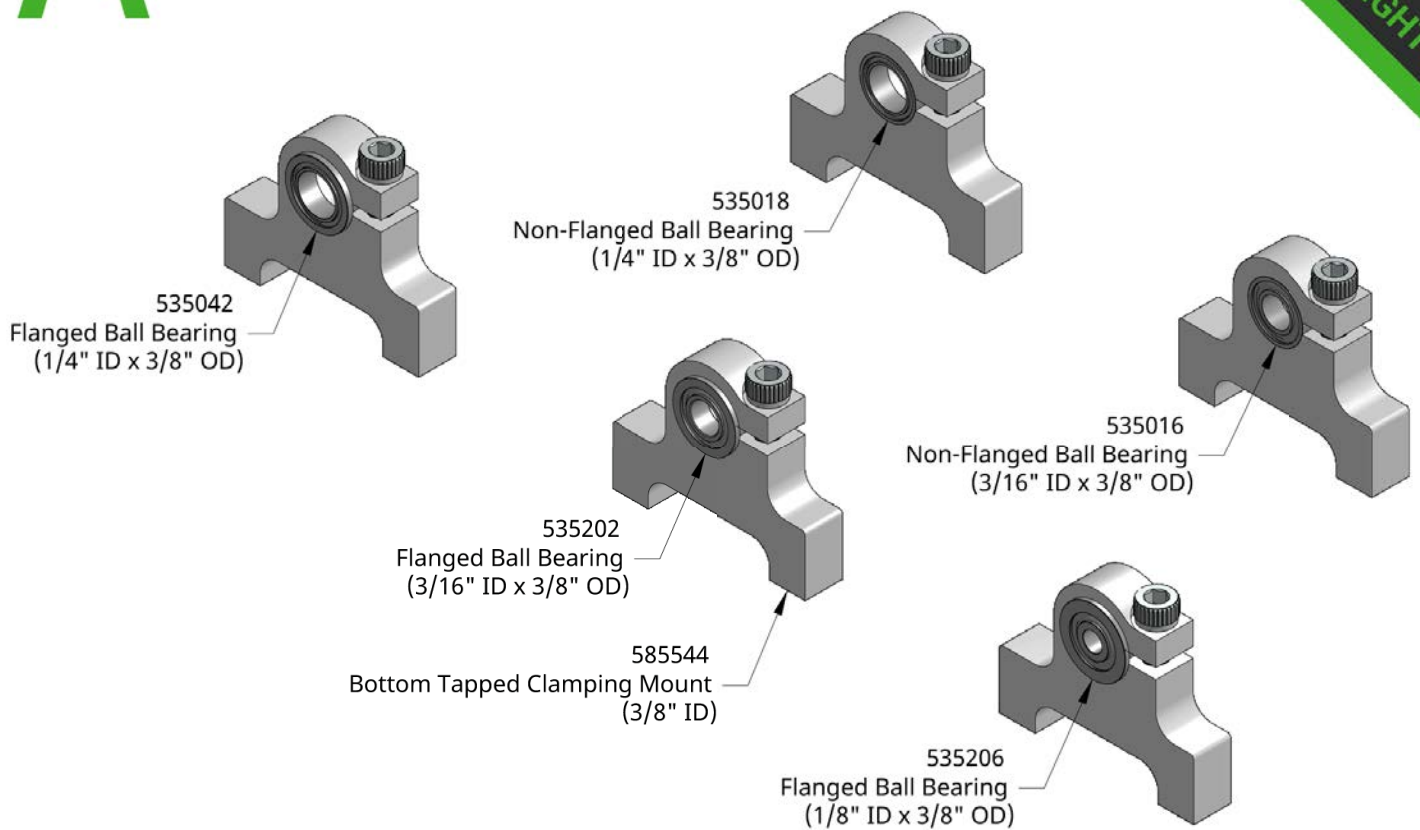
525154 Product Insight #2

A servo can be mounted to the sidewall of Actobotics channel and directly drive a 6mm shaft. By supporting the shaft with a flanged ball bearing on the opposite side of the channel, large loads can be supported. A clamping hub can be attached to the shaft which gives servo control any Actobotics part with the 0.770" pattern.



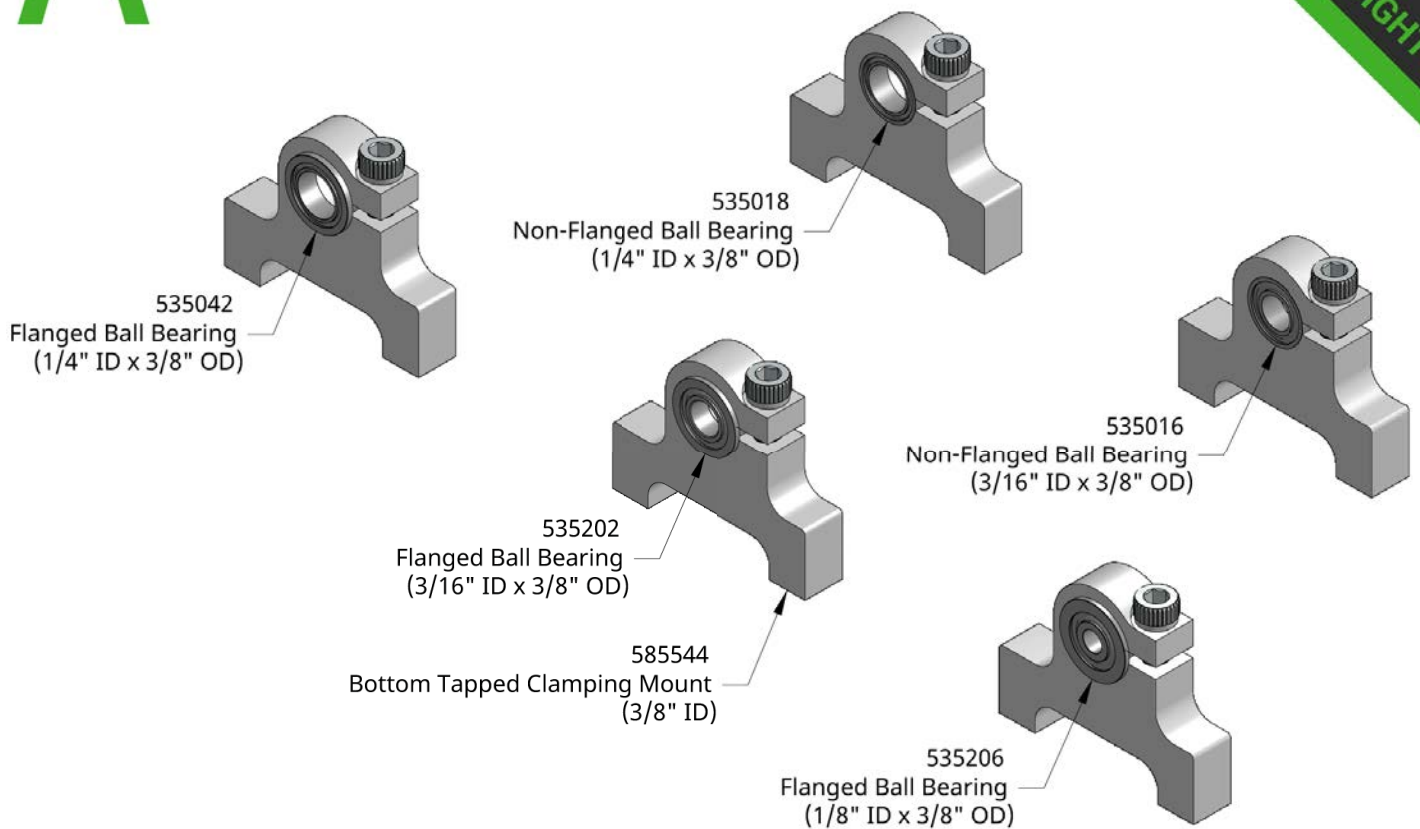
535010 Product Insight #1

Supporting an 1/8" shaft with 2 bearings in a small space can be achieved by clamping two 535010 into the 585542.



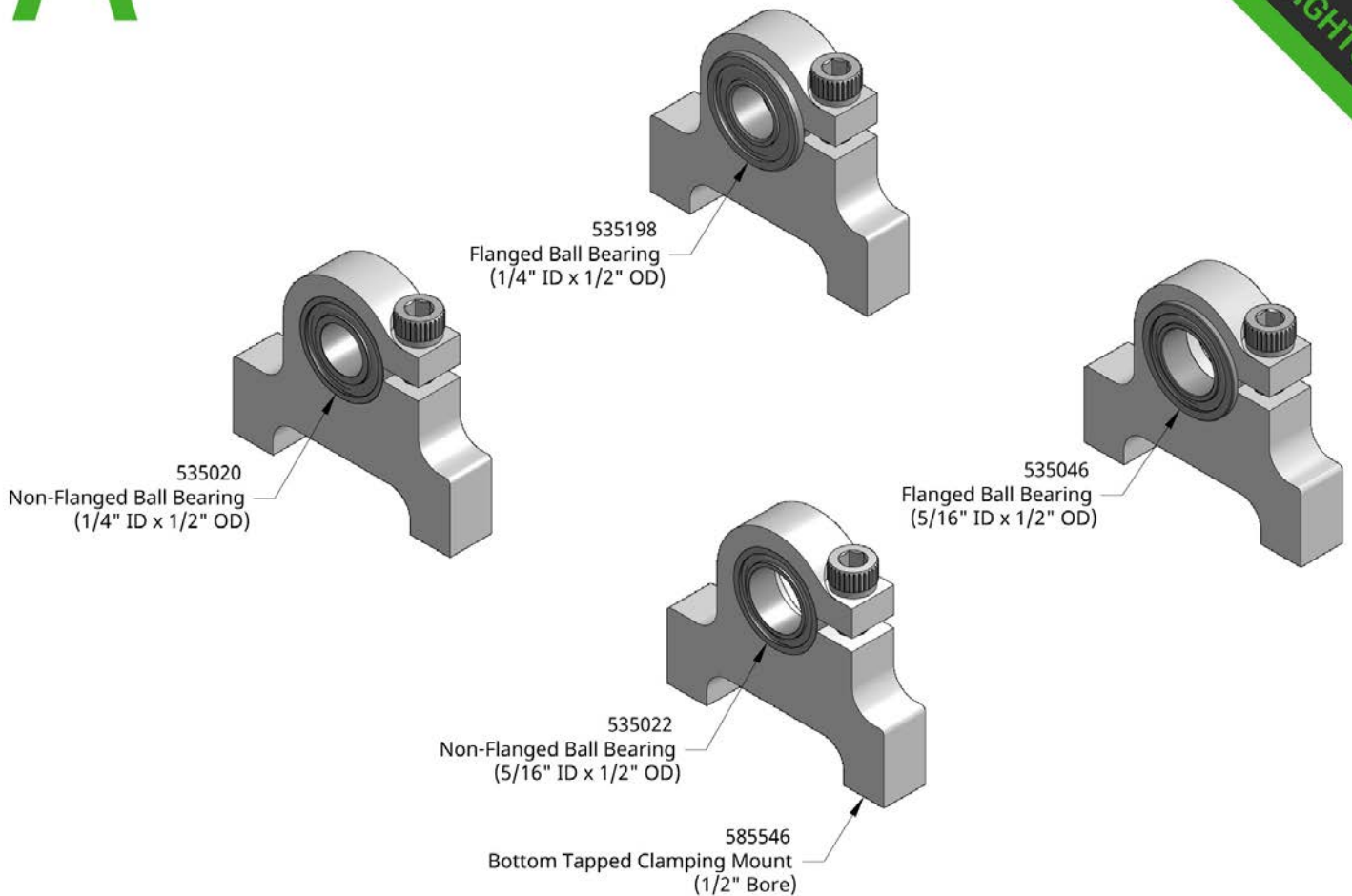
535016 Product Insight #1

A pillow block can be created by simply clamping on to any bearing with a 3/8" outside diameter.



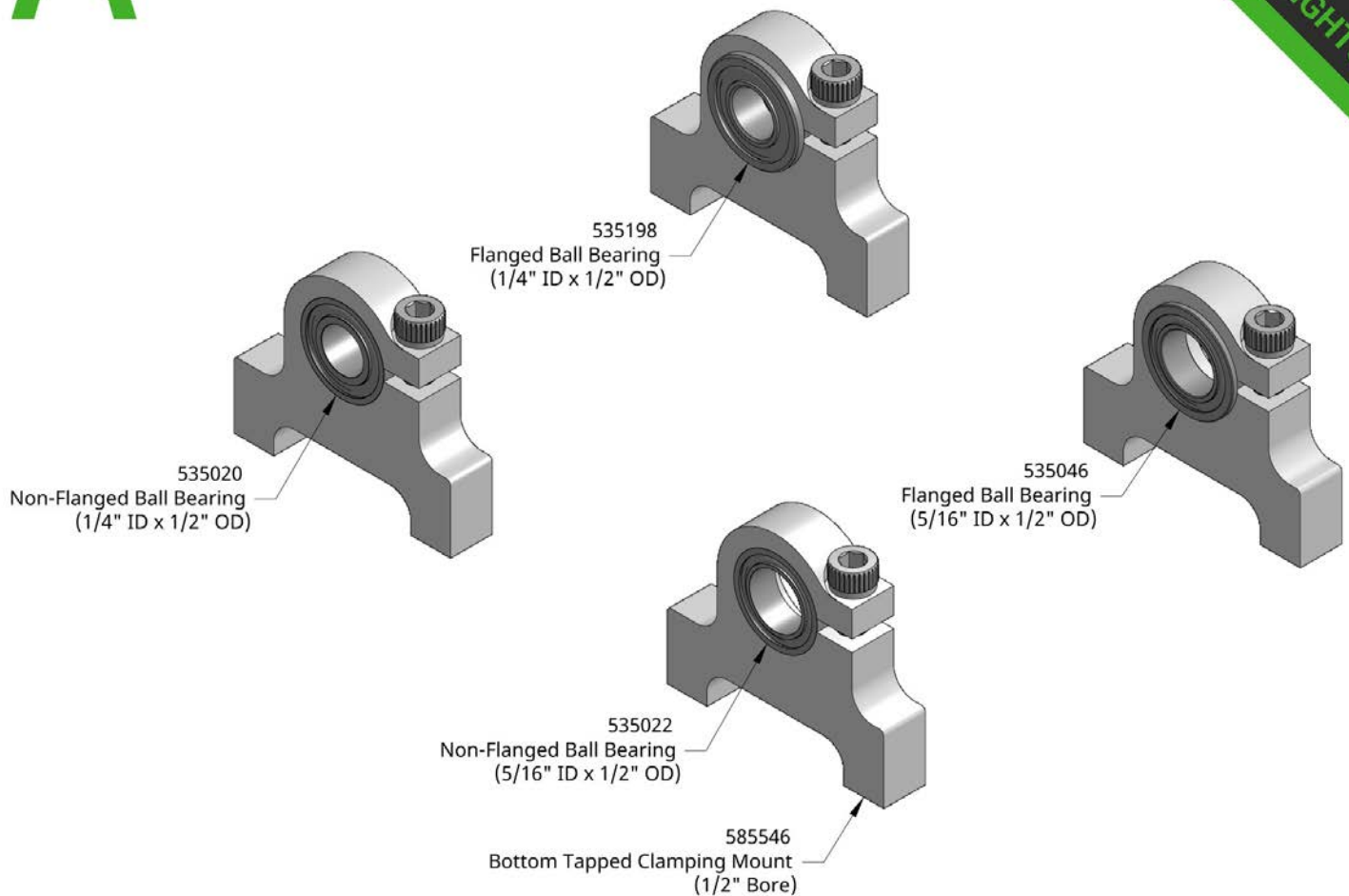
535018 Product Insight #1

A pillow block can be created by simply clamping on to any bearing with a 3/8" outside diameter.



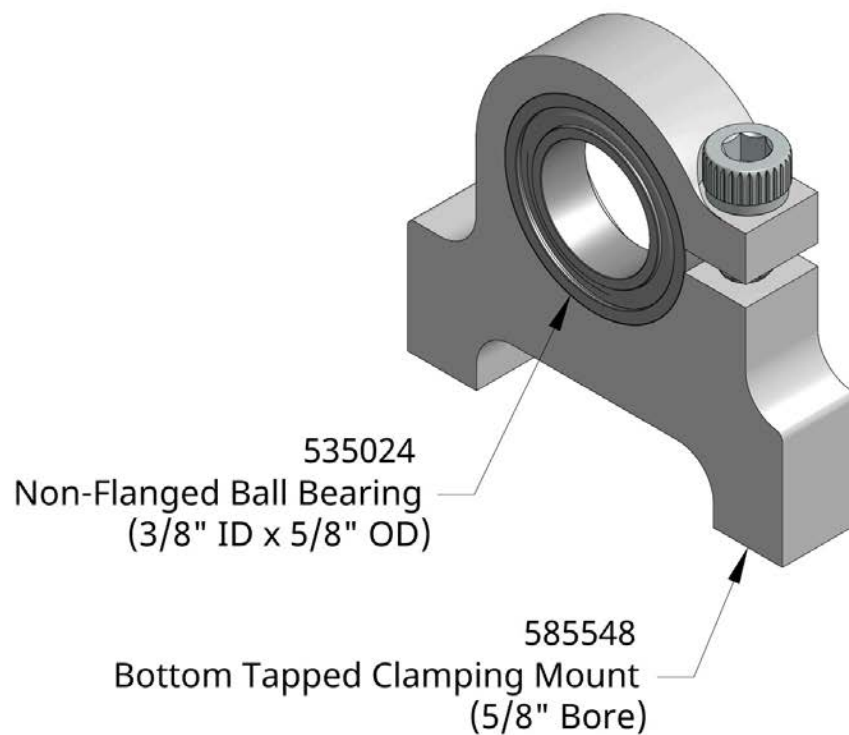
535020 Product Insight #1

A pillow block can be created by simply clamping on to any bearing with a 1/2" outside diameter.



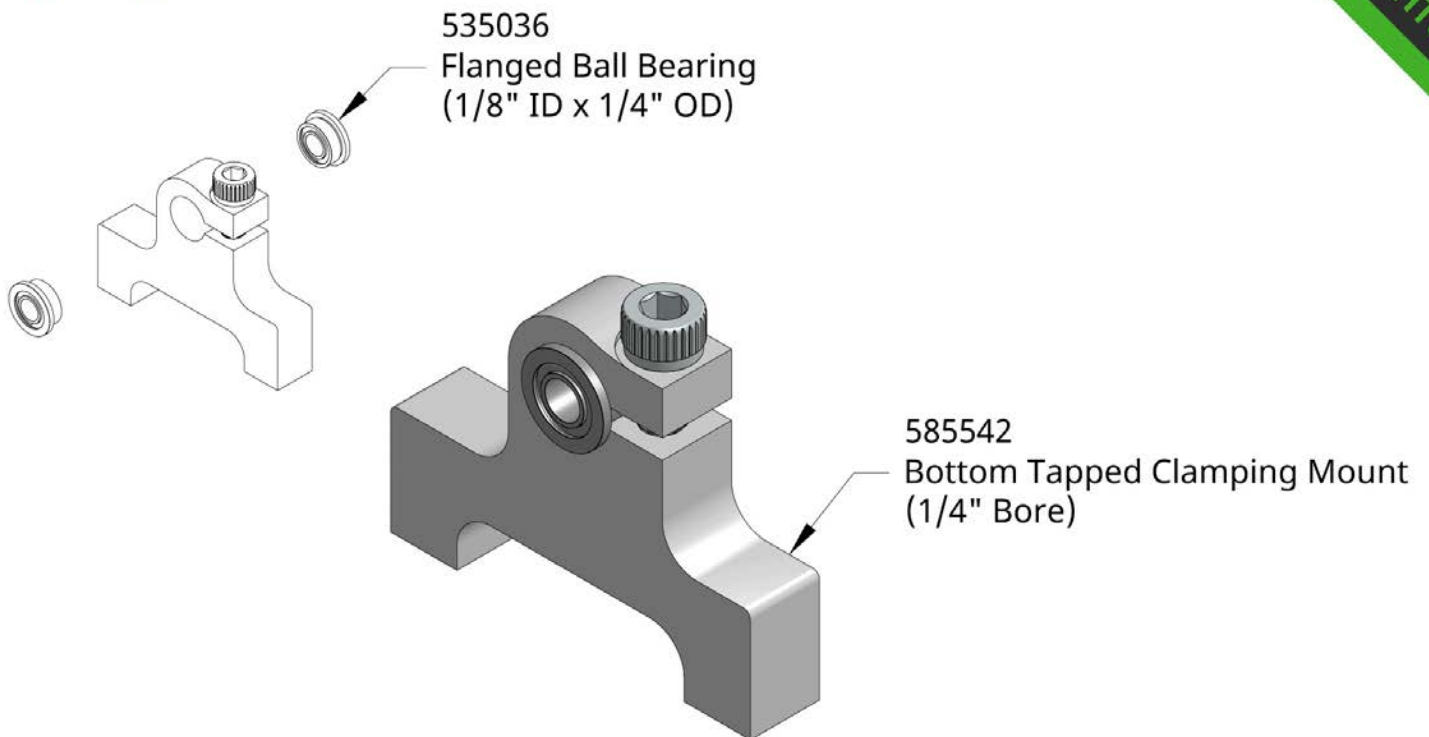
535022 Product Insight #1

A pillow block can be created by simply clamping on to any bearing with a 1/2" outside diameter.



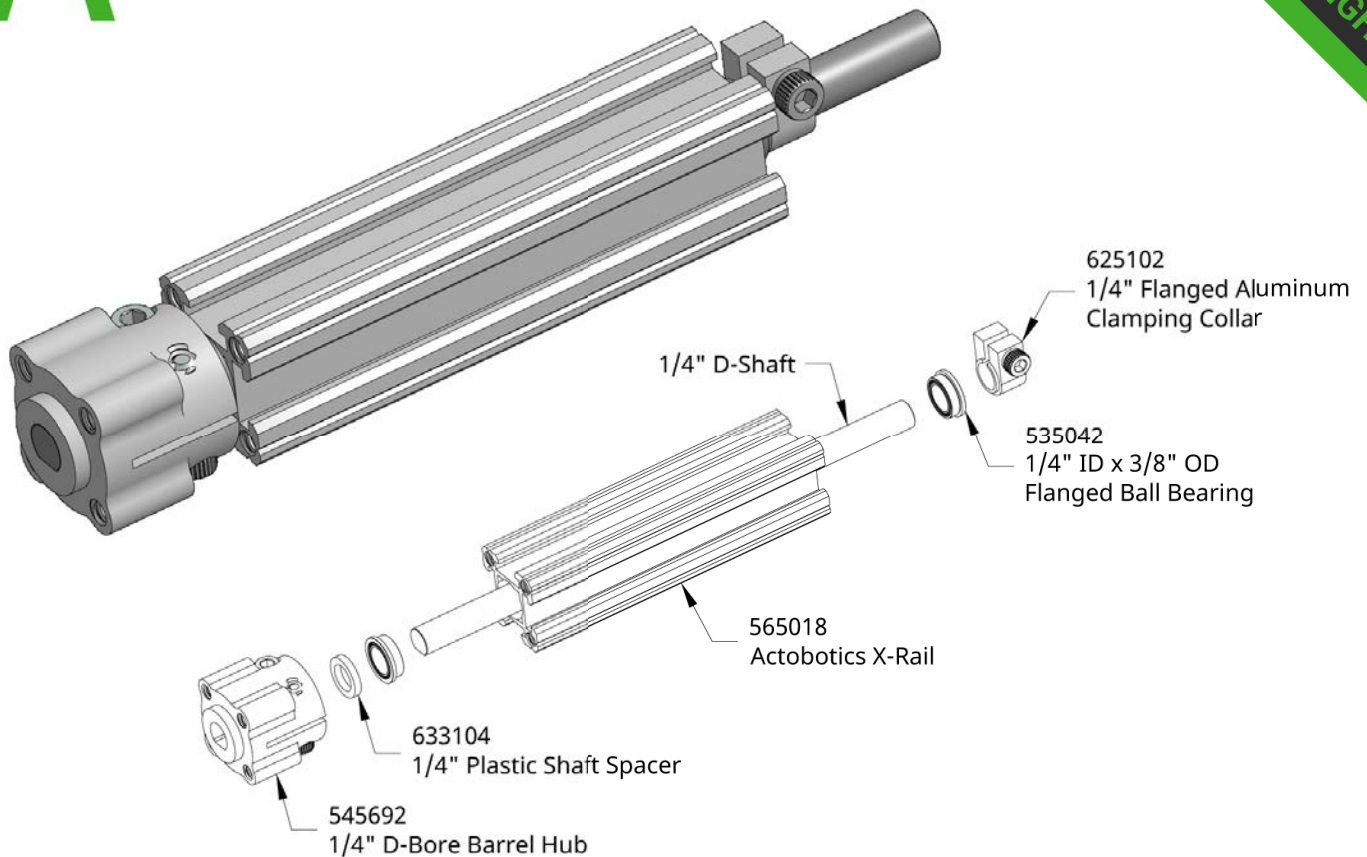
535024 Product Insight #1

A pillow block can be created by simply clamping on to any bearing with a 5/8" outside diameter.



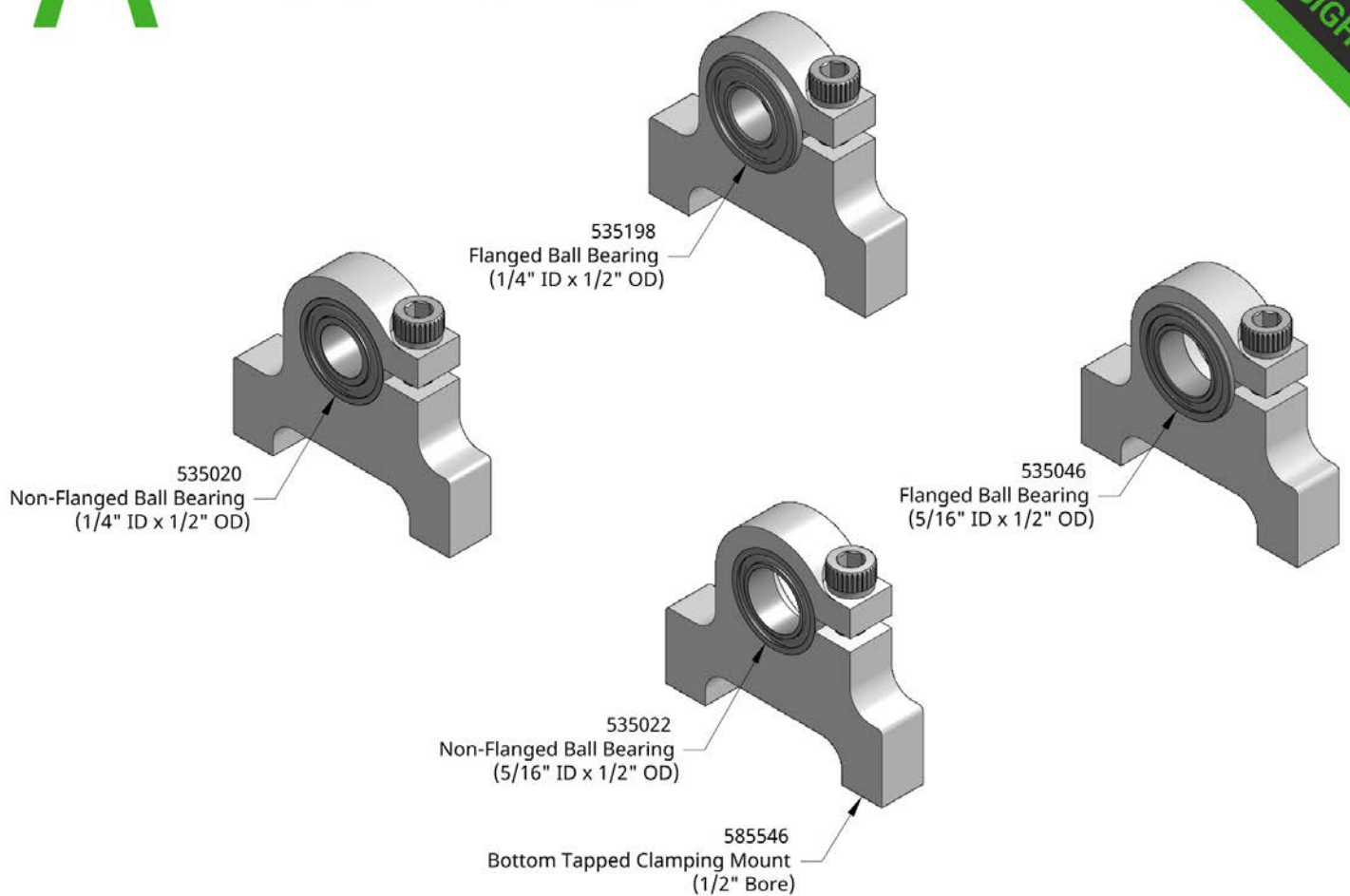
535036 Product Insight #1

Supporting an 1/8" shaft with two bearings in a small space can be achieved by clamping two 535036 into the 585542.



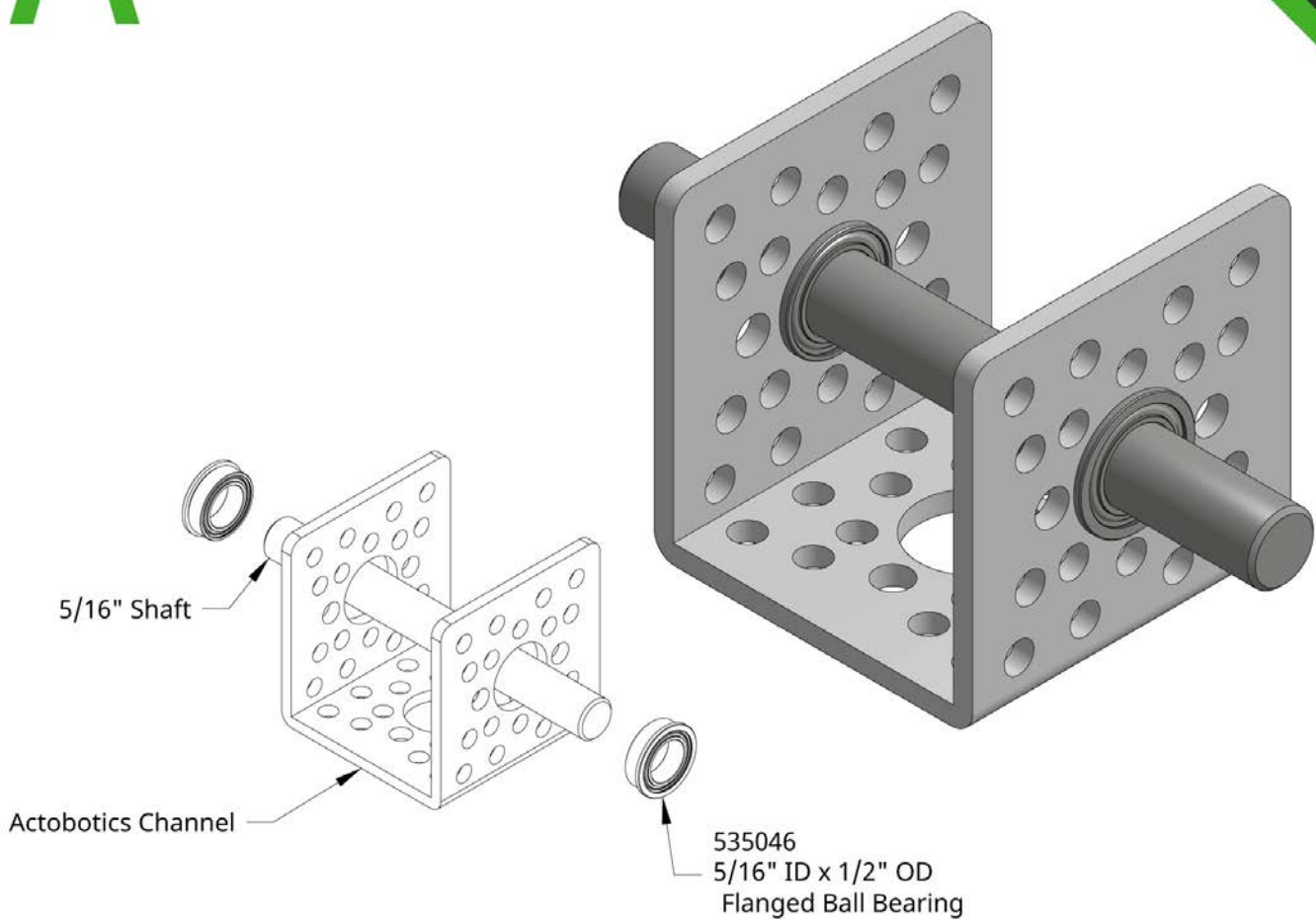
535042 Product Insight #1

A 1/4" shaft can be radially supported by flanged ball bearings that insert into the ends of X-Rail. The shaft can be axially constrained by a clamping hub on one end of the shaft and a clamping collar on the other.



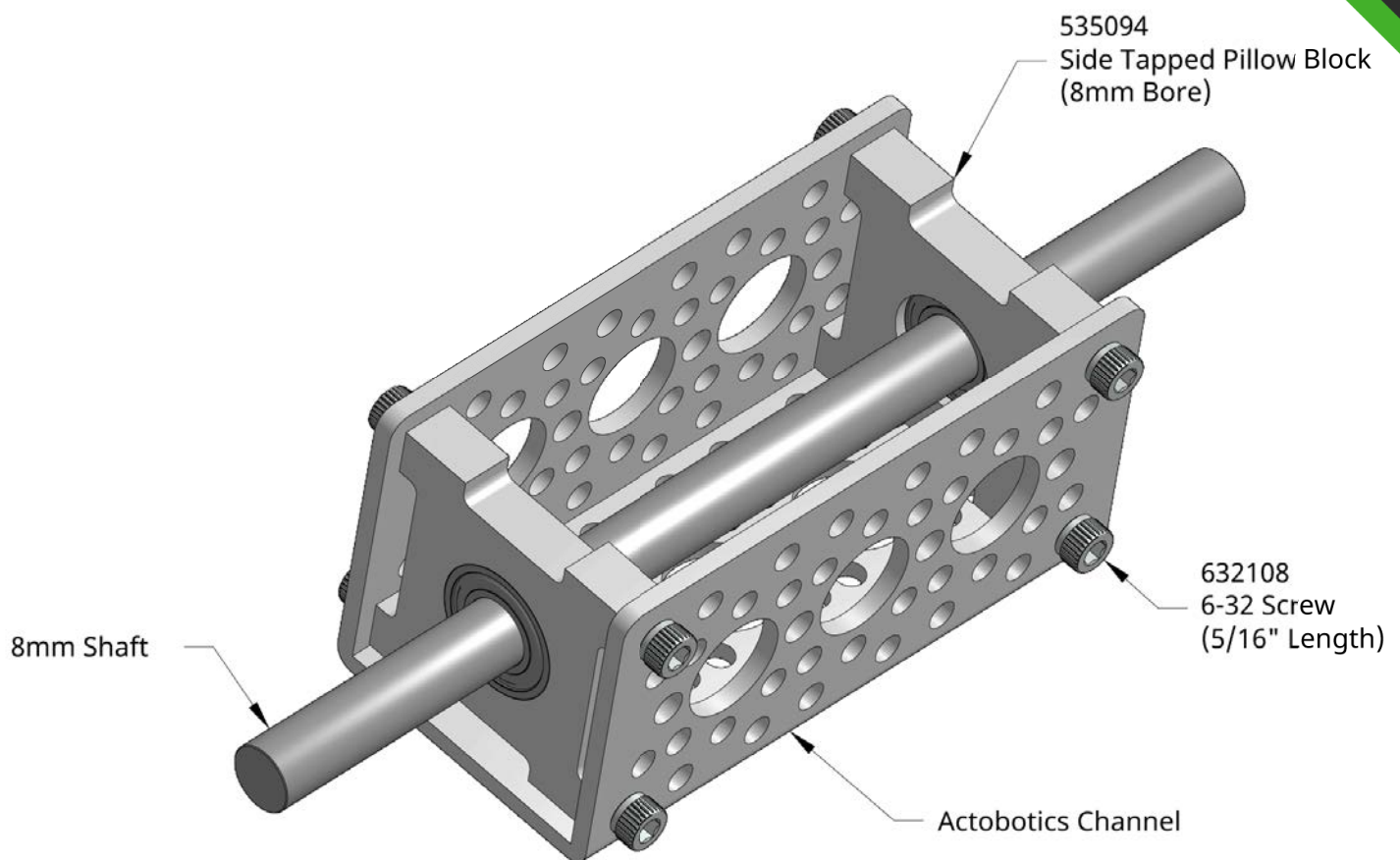
535046 Product Insight #1

A pillow block can be created by simply clamping on to any bearing with a 1/2" outside diameter.



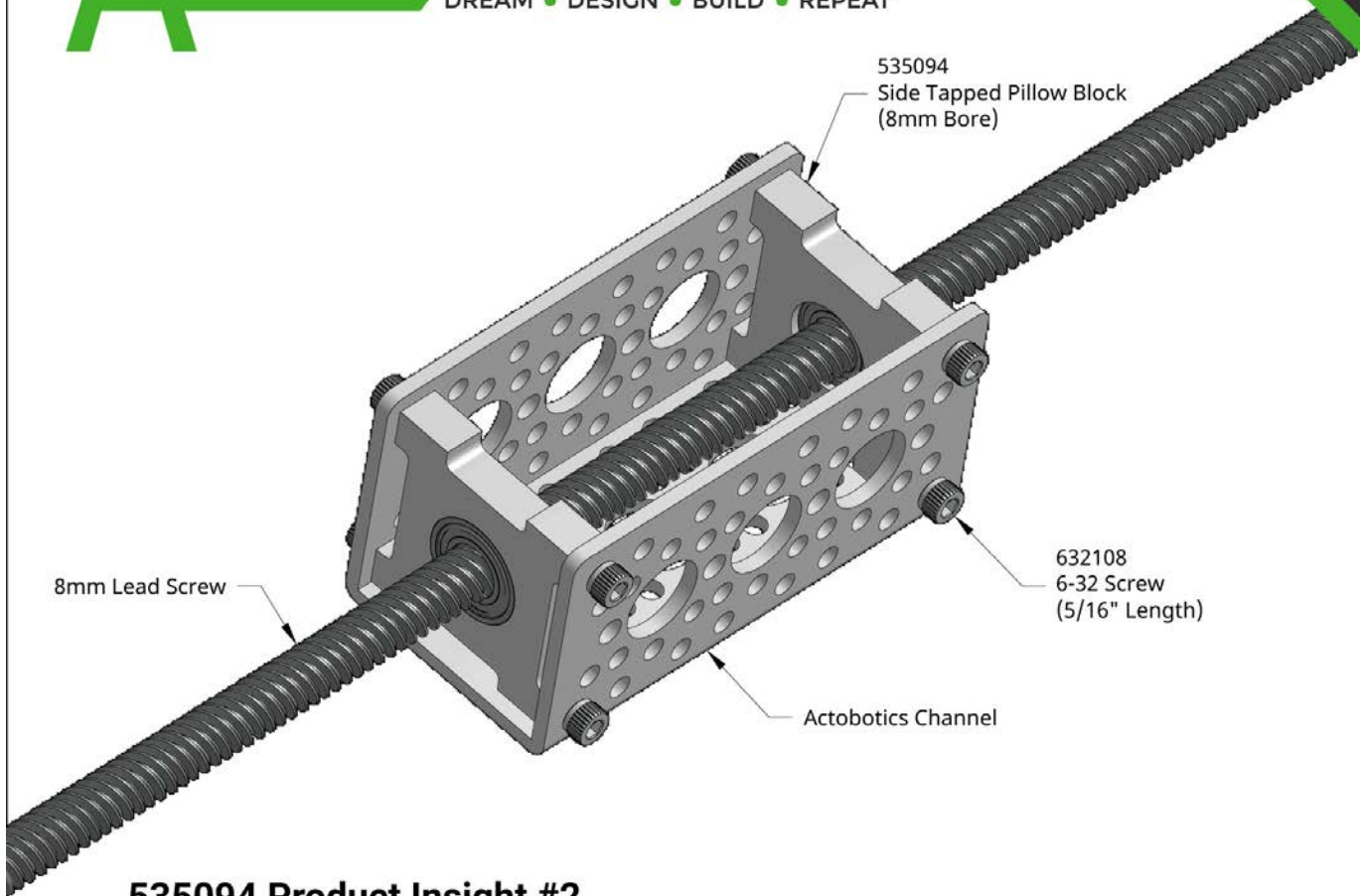
535046 Product Insight #1

Shafting can be radially supported when ran through Actobotics channel by inserting flanged ball bearings into two adjacent 1/2" holes on the walls of the channel.



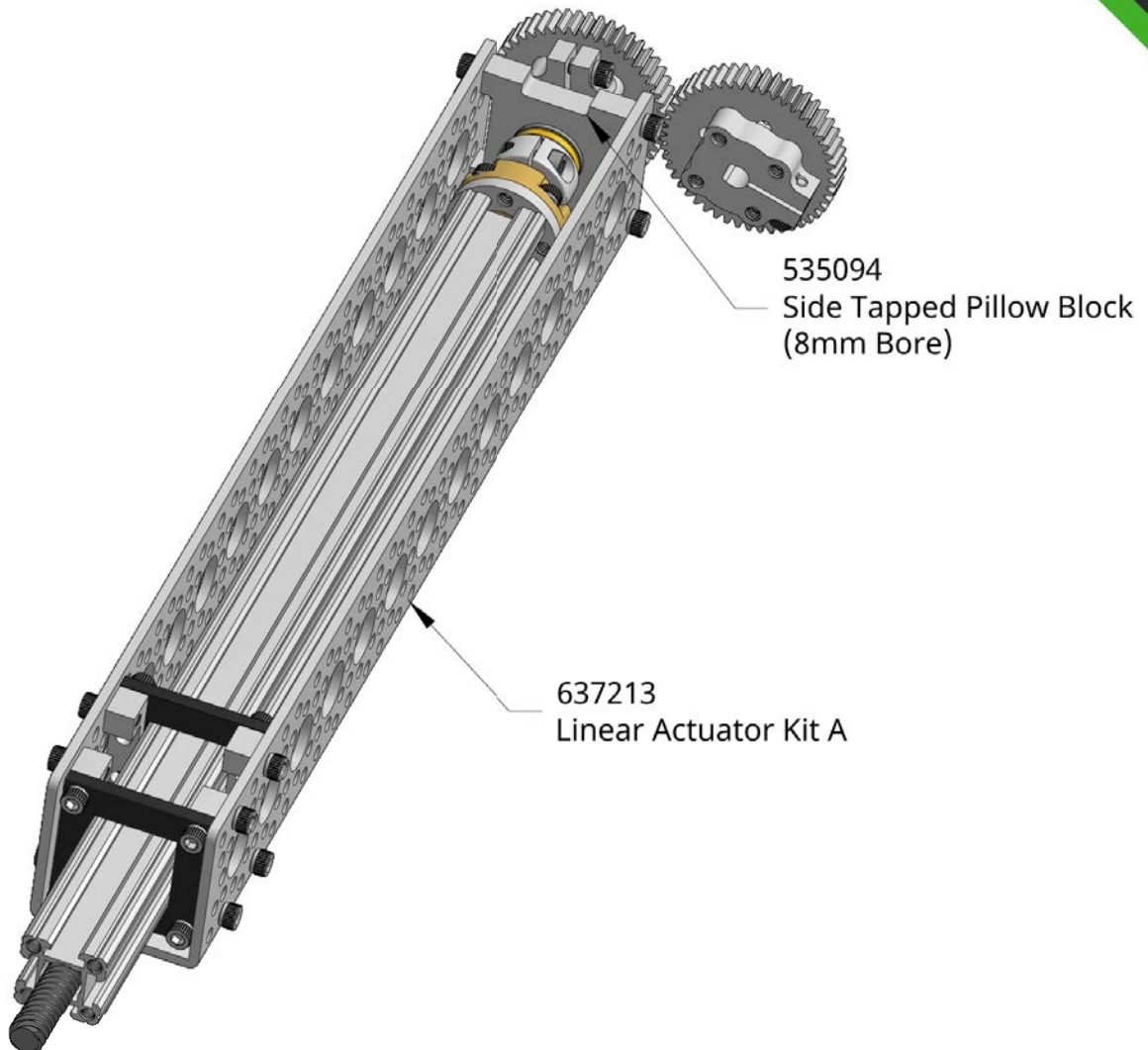
535094 Product Insight #1

8mm Shaft can be fully supported when ran through the center of Actobotics Channel.



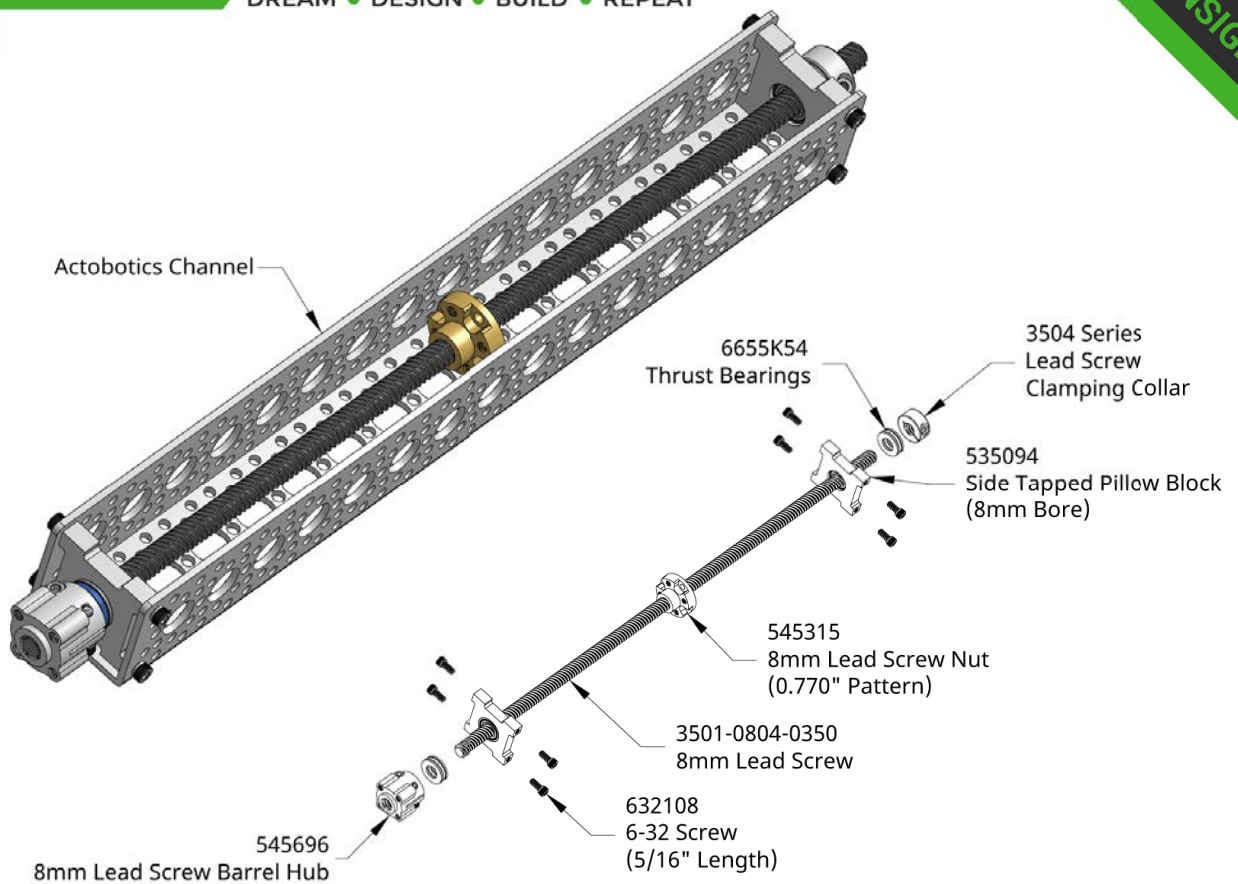
535094 Product Insight #2

An 8mm Lead Screw can be fully supported when ran through the center of Actobotics Channel.



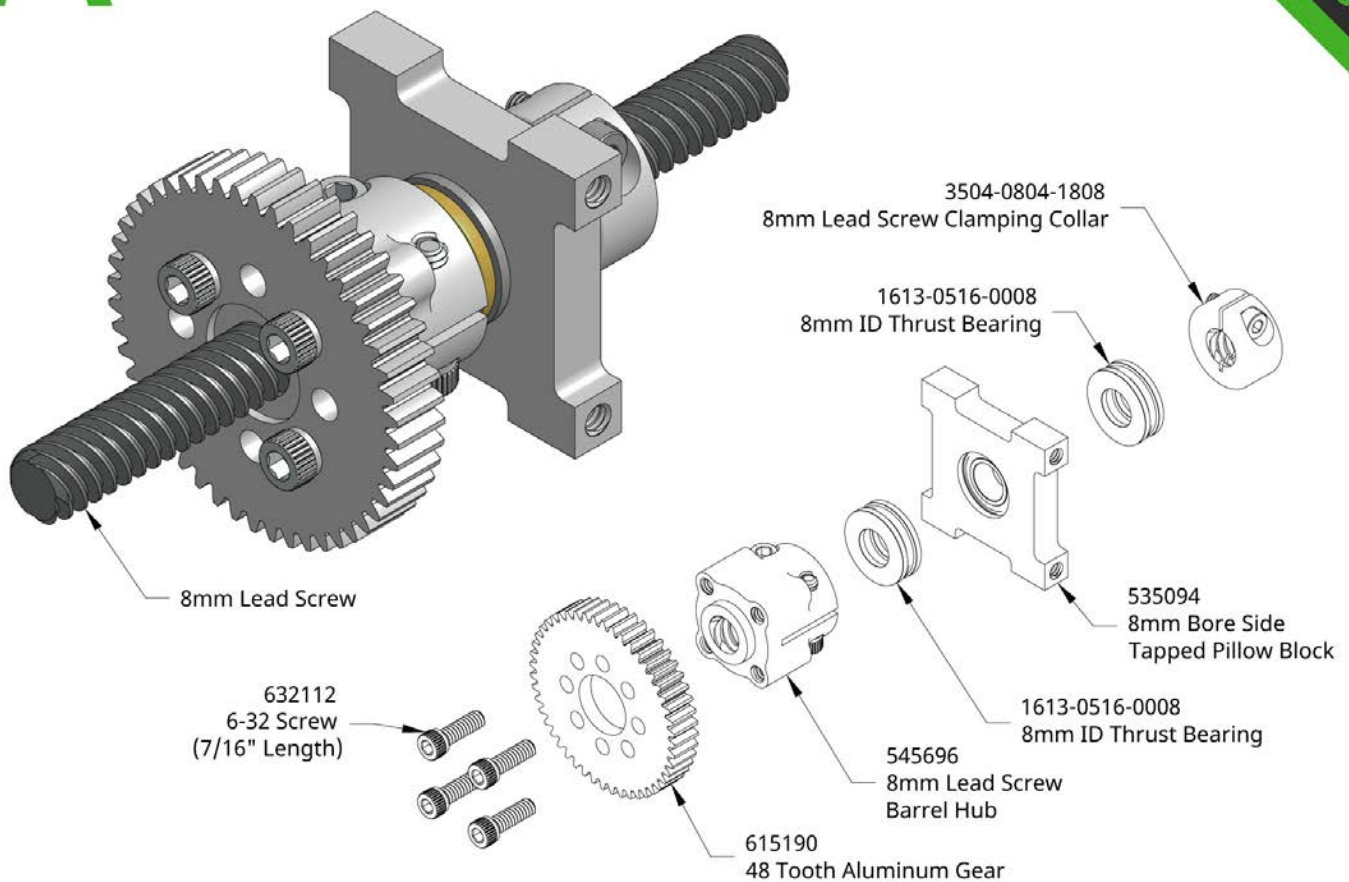
535094 Product Insight #3

The 535094 is used in the 637213 Linear Actuator Kit to radially support the 8mm lead screw. Thrust bearings and clamping collars are used on both sides of the lead screw to axially constrain its movement.



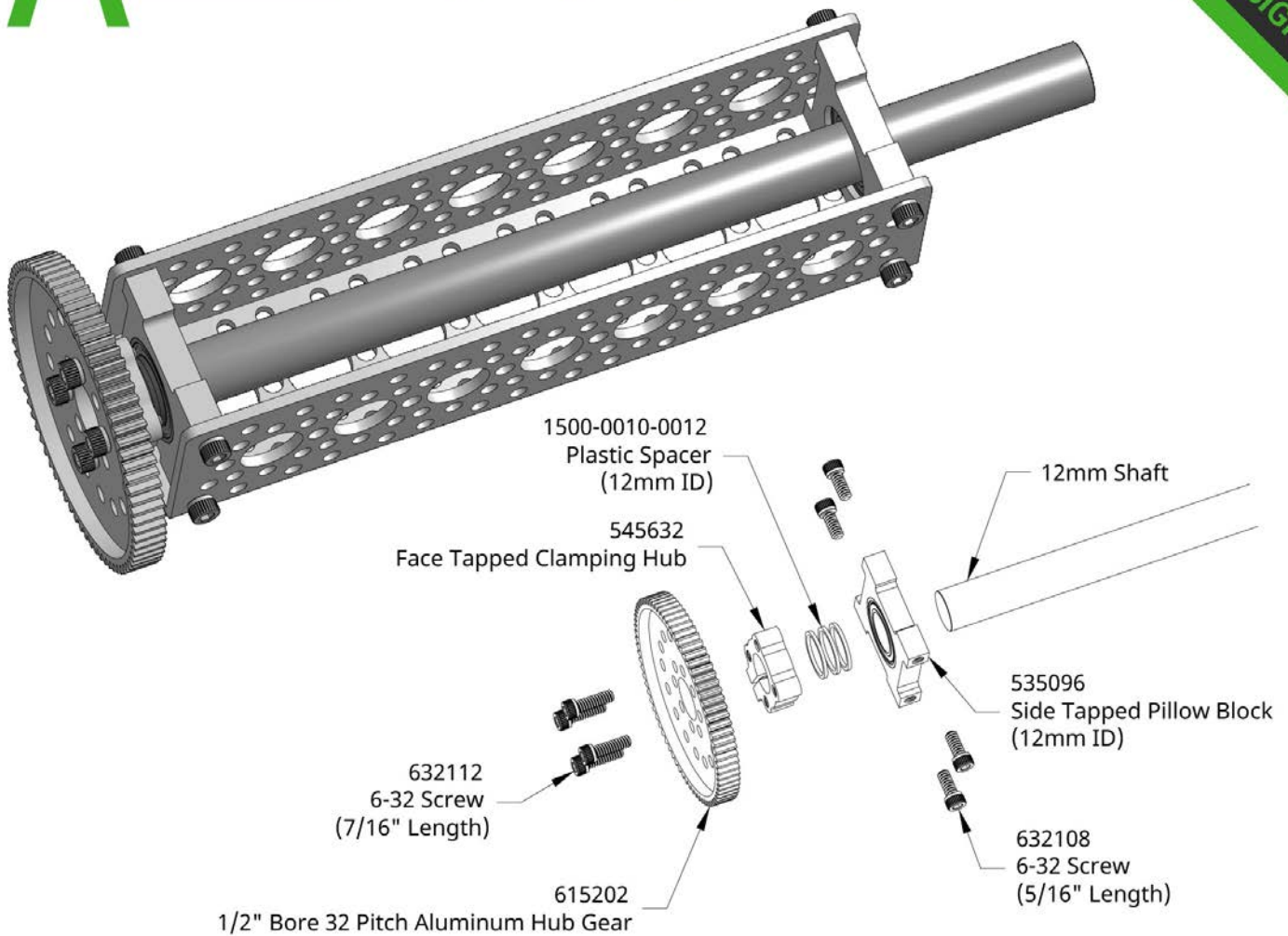
535094 Product Insight #4

Installed in both ends of the Actobotics channel allows the 8mm lead screw to be radially supported. Since thrust bearings and clamping collars axially constrain the lead screw, the 545315 Lead Screw Nut will move linearly when the lead screw is rotated.



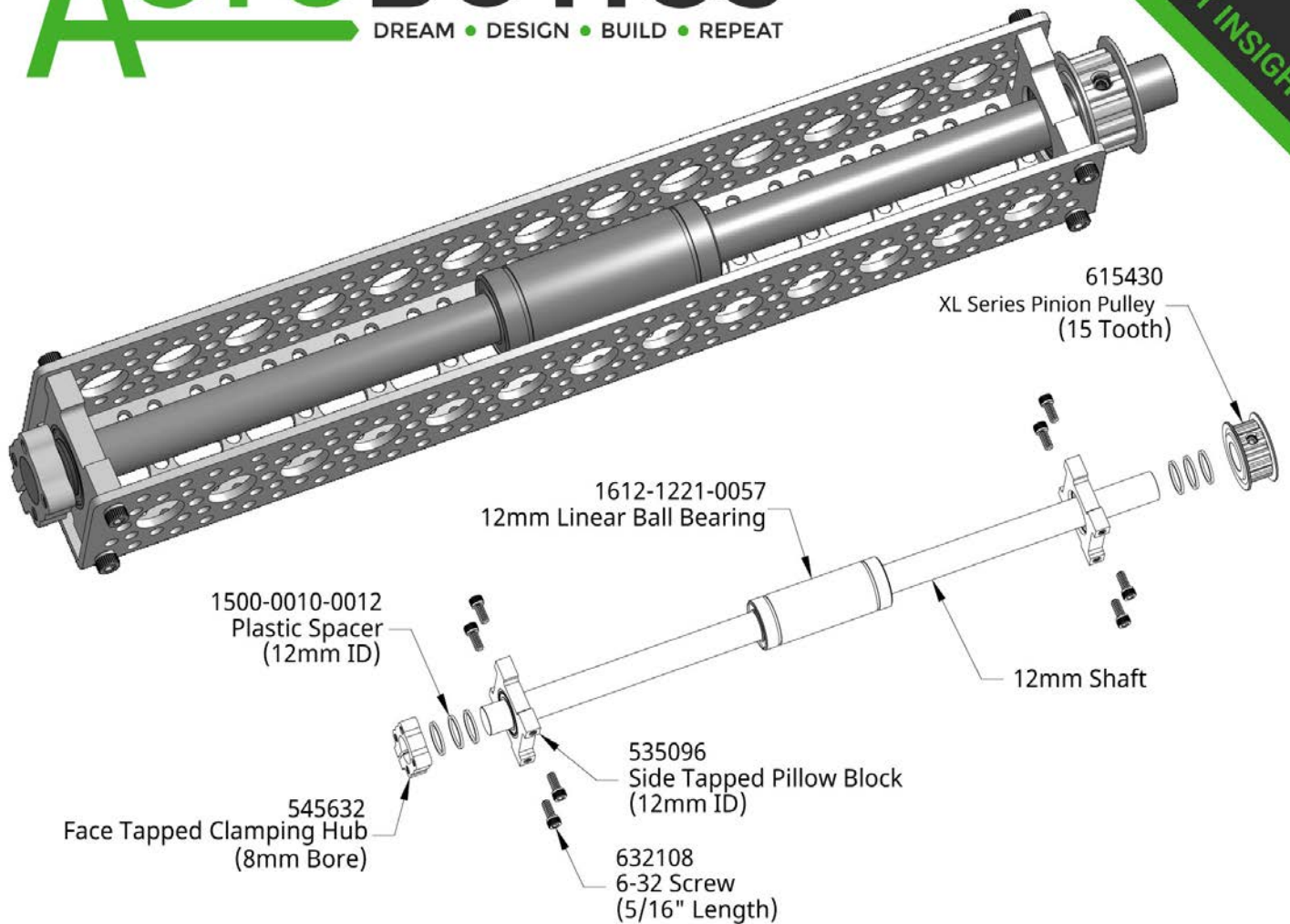
535094 Product Insight #5

The use of thrust bearings in a lead screw assembly is critical for properly dealing with axially forces that get applied to the lead screw. This can be accomplished by sliding a thrust bearing up to both sides of the 535094. The lead screw should then be axially constrained by clamping a hub or collar on to the lead screw that is squeezed up to the washer of the thrust bearing.



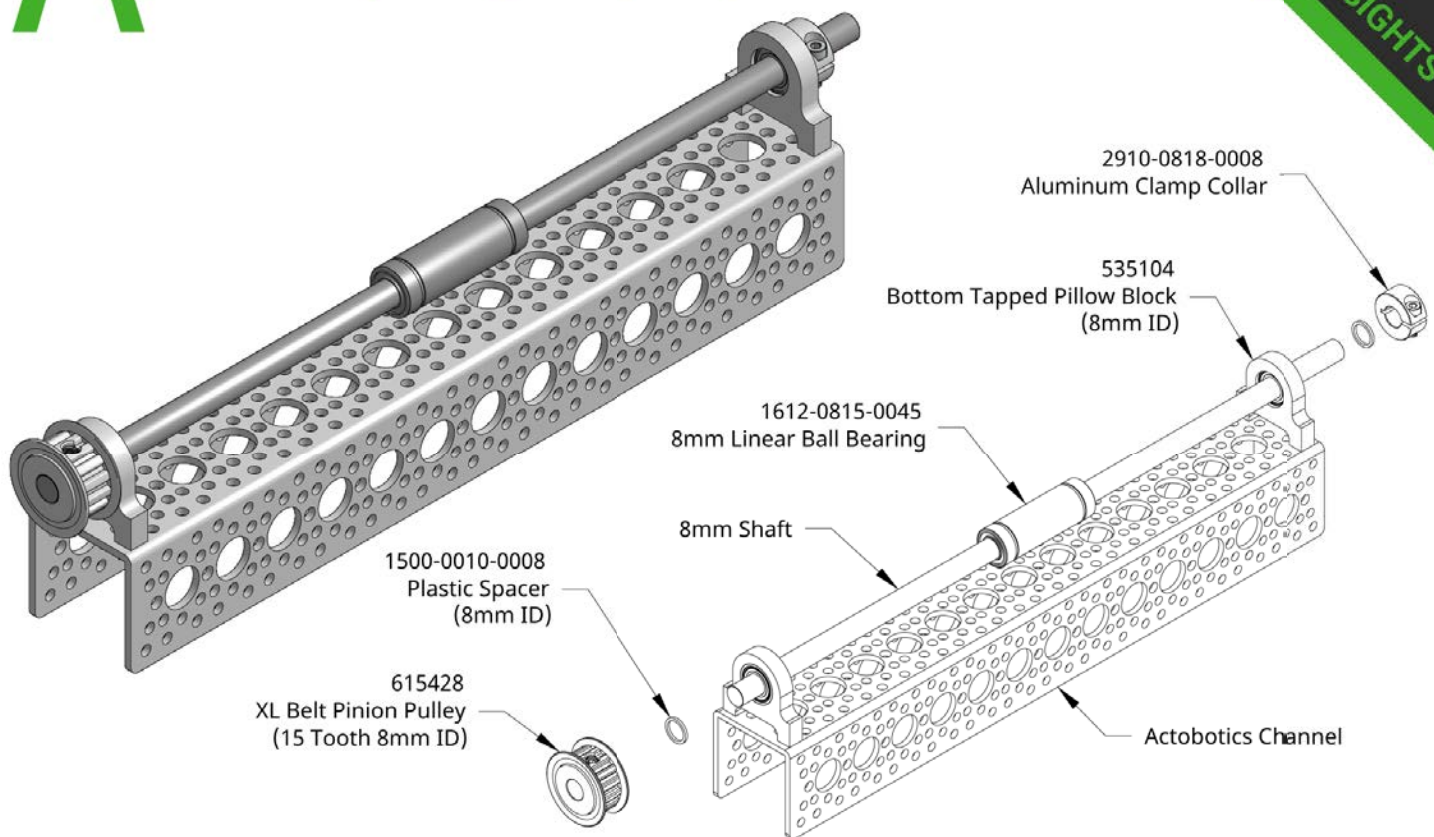
535096 Product Insight #1

A 12mm shaft can be ran down Actobotics channel and be radially supported when a 535096 is placed in two locations. With the use of a clamping hub, Actobotics parts with the 0.770" pattern can be attached to the shaft.



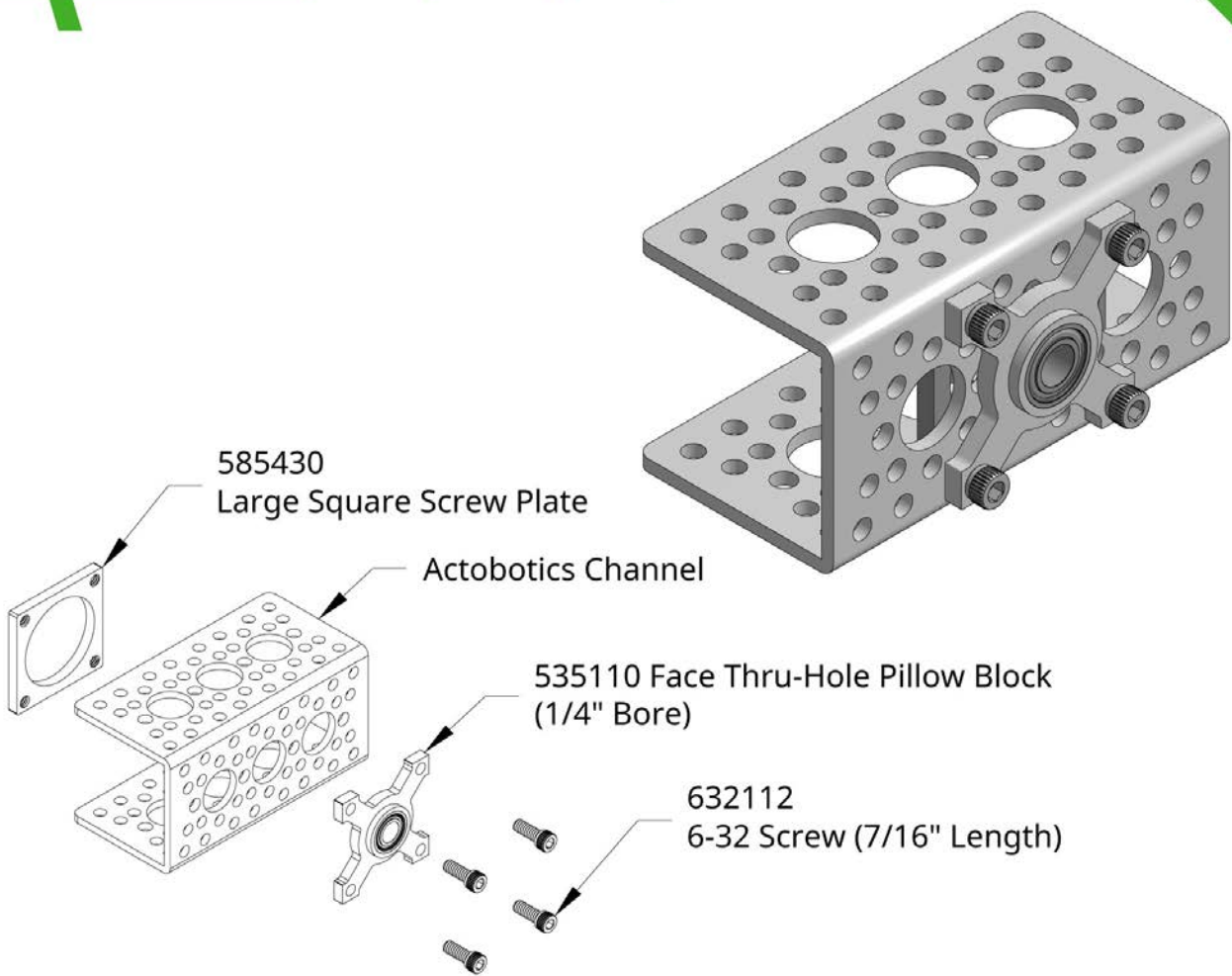
535096 Product Insight #2

When linear motion needs to be combined with rotary motion, a linear bearing is a great solution. The linear bearing has freedom to slide in between the two pillow block bearings while the pulley is driving rotary motion on the shaft.



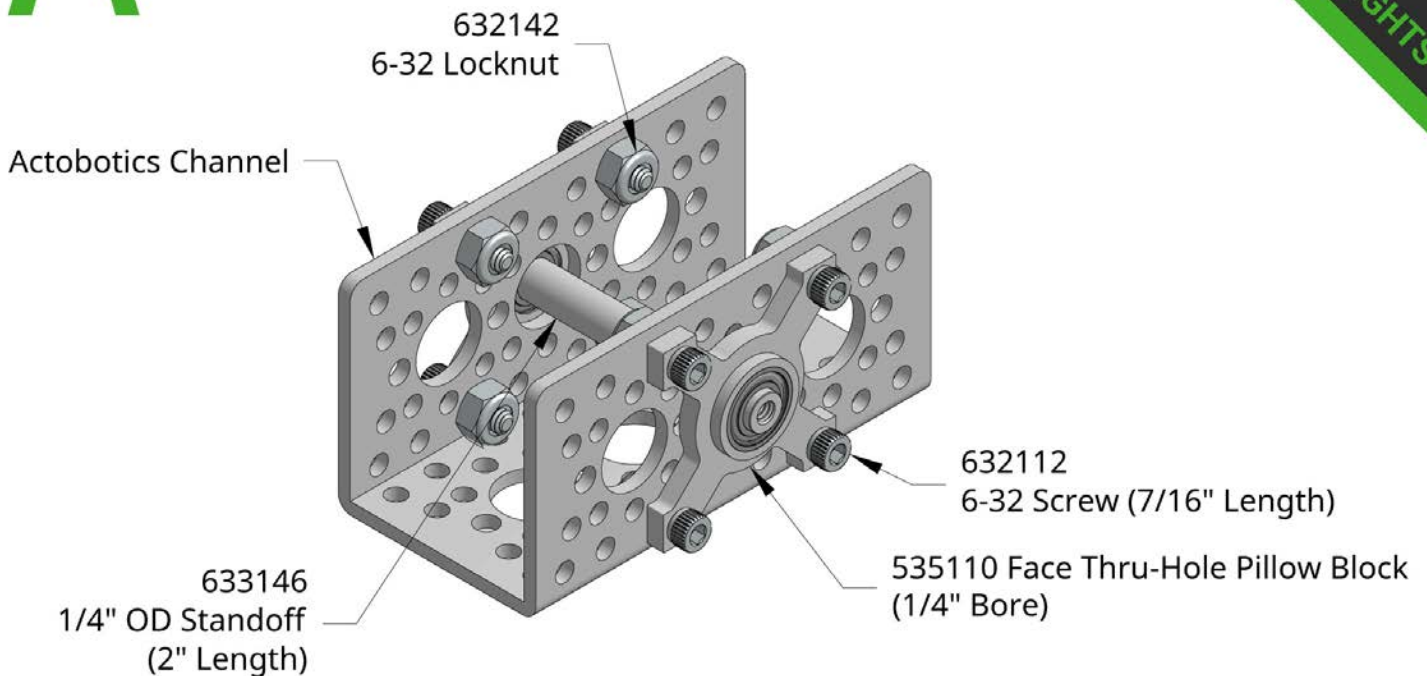
535104 Product Insight #3

When radial motion needs supported over a long distance, two pillow blocks can be used to support the shaft at both ends. A linear bearing can be used to add linear motion on the same shaft that is being rotated in the pillow blocks! A set screw pulley puts the shaft into motion.



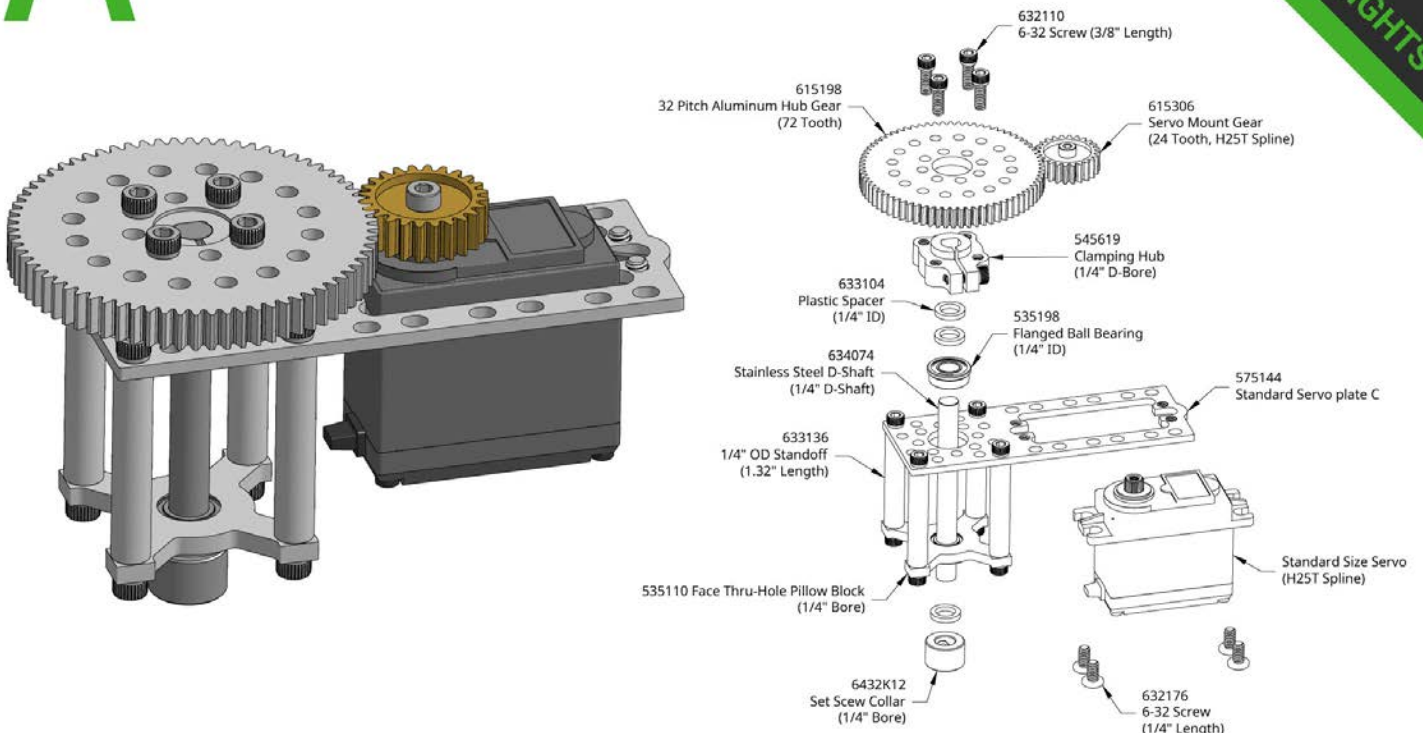
535110 Product Insight #1

Screwing down a pillow block to Actobotics channel is made easy with the 4 tapped holes in the large square screw plate.



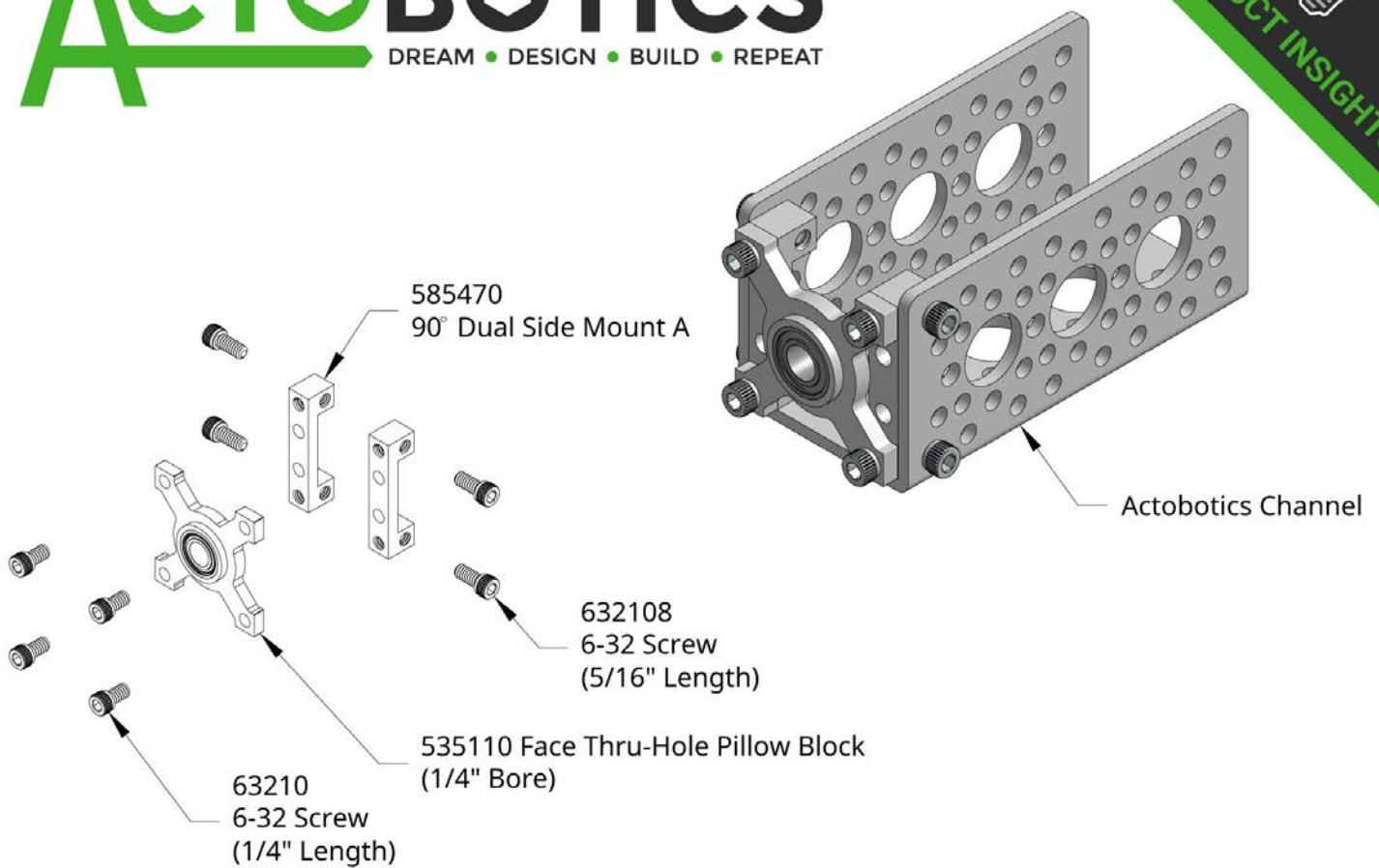
535110 Product Insight #2

Bolting down a pillow block to both sides of Actobotics channel gives total radial support of a shaft or in this case a 1/4" O.D. standoff.



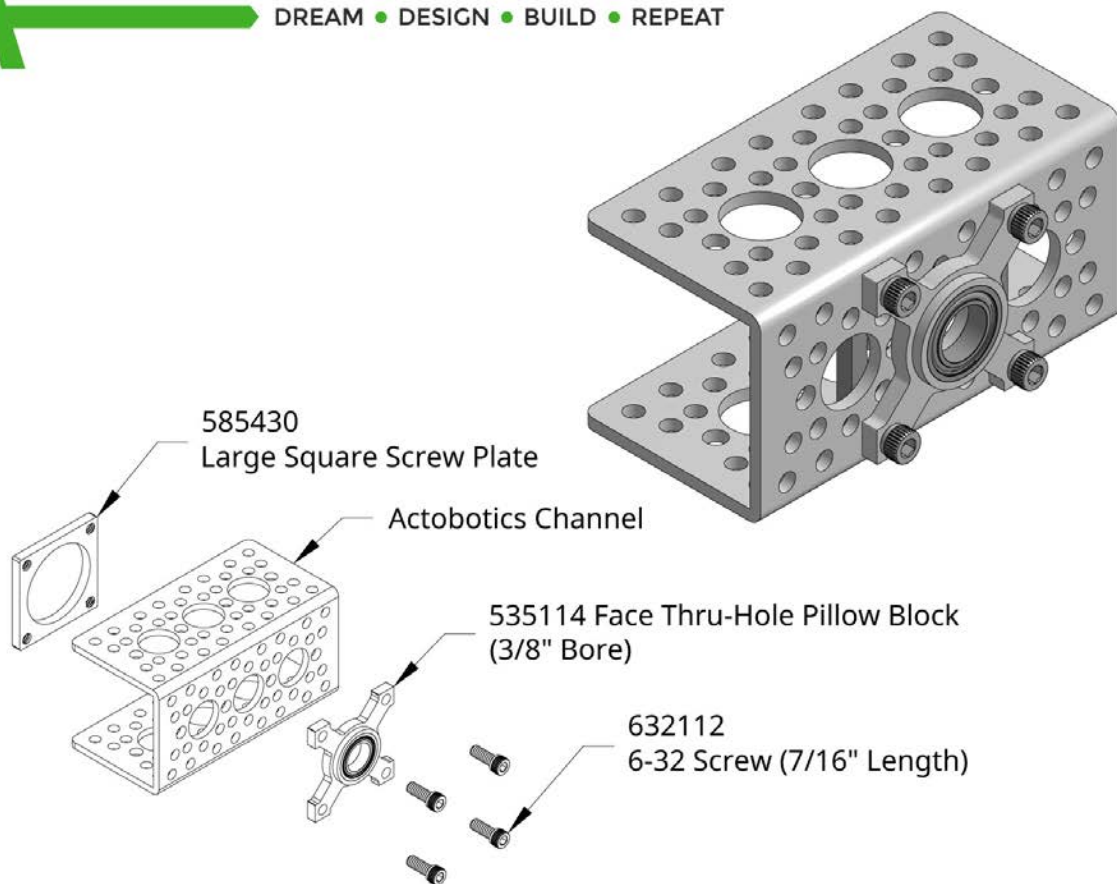
535110 Product Insight #3

Standoffs can be used to create space between a pillow block and another bearing. The space between the two bearings gives excellent support for a shaft that is running through both bearings. Adding a gear to the servo and to the shaft allows a powerful gearbox to be made.



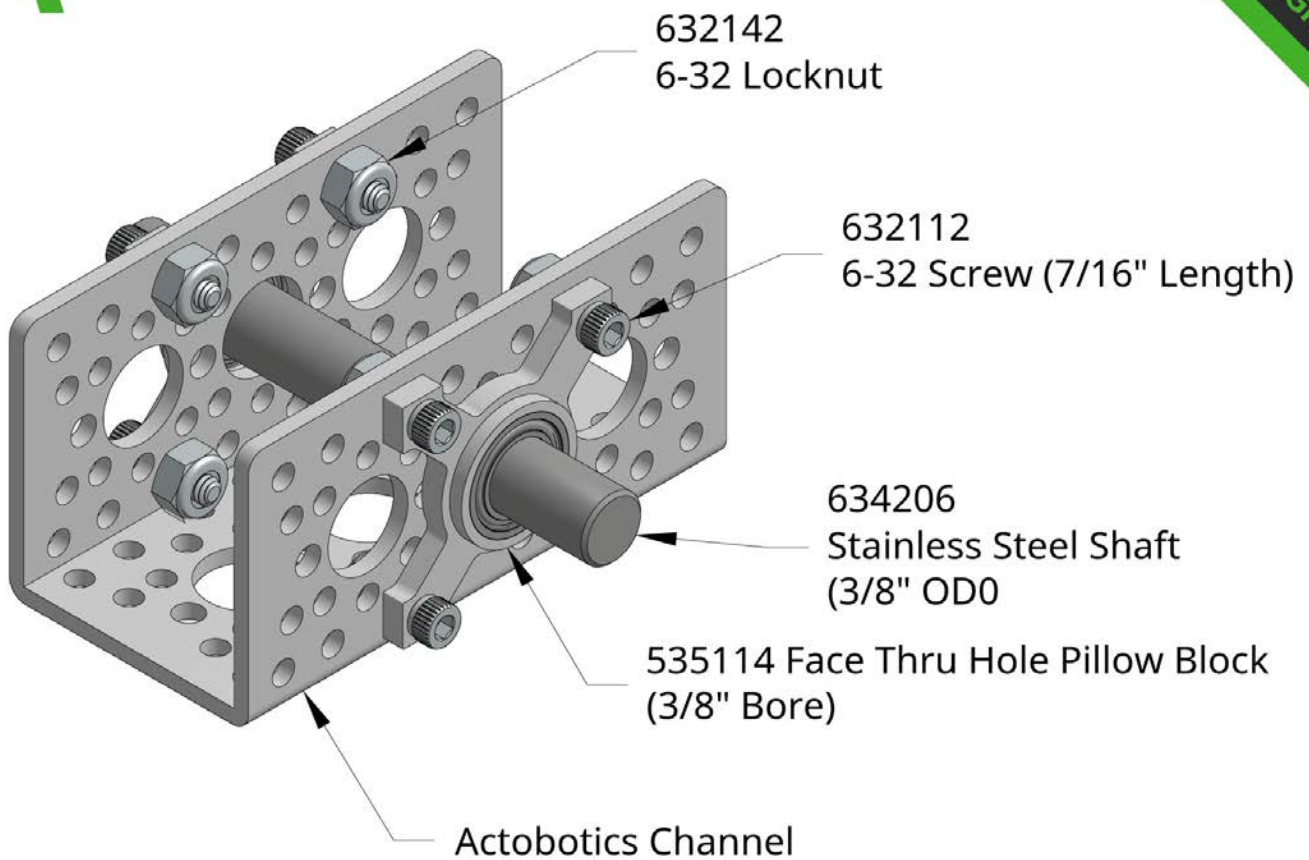
535110 Product Insight #4

Running a shaft down the center of Actobotics Channel can be done easily by adding a pillow block to the inside of the channel. Using two 58470's allows the pillow block to be mounted at any location on the inside of channel.



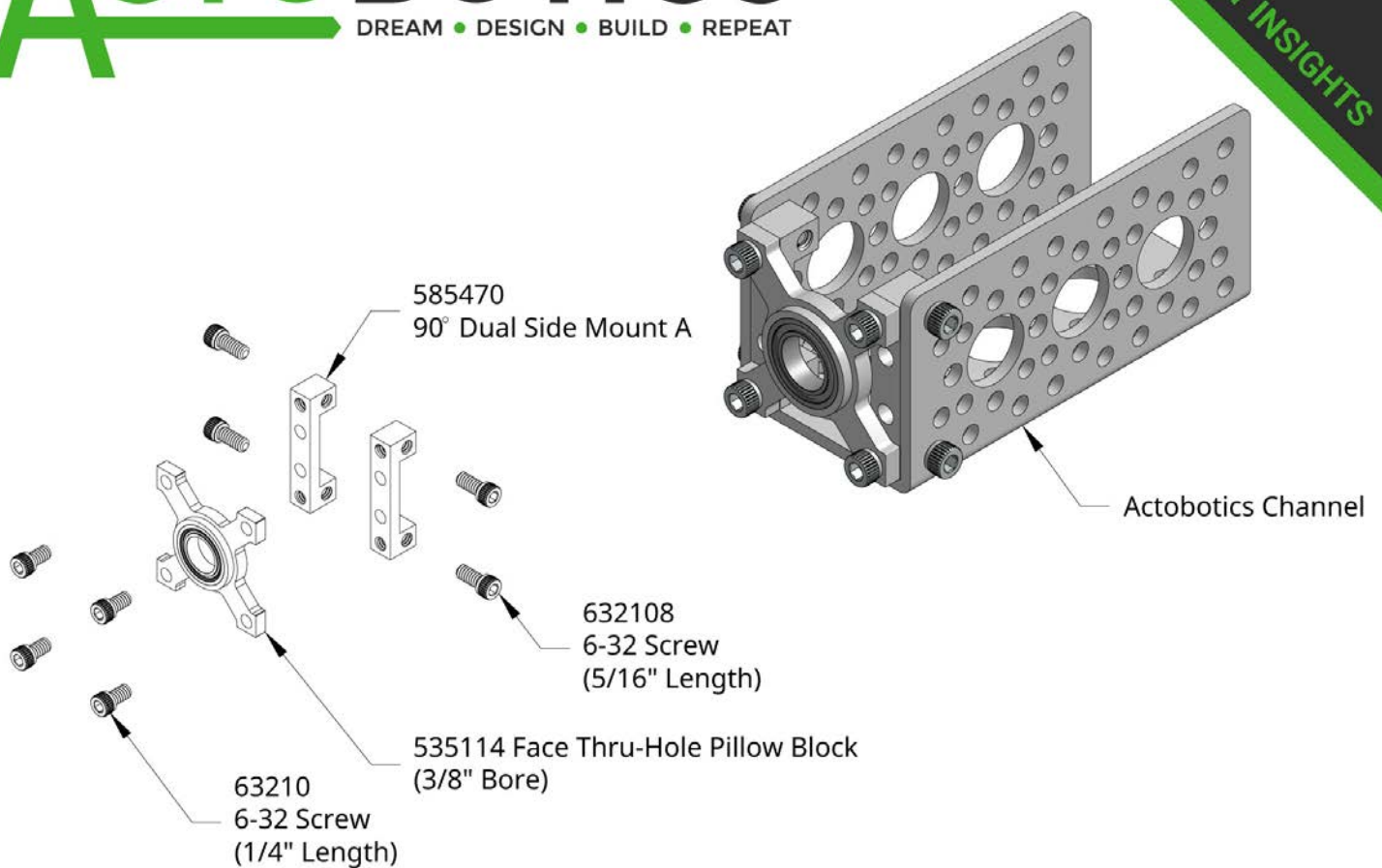
535114 Product Insight #1

Screwing down a pillow block to the outside of Actobotics Channel is made easy with the 4 tapped holes in the Large Square Screw Plate.



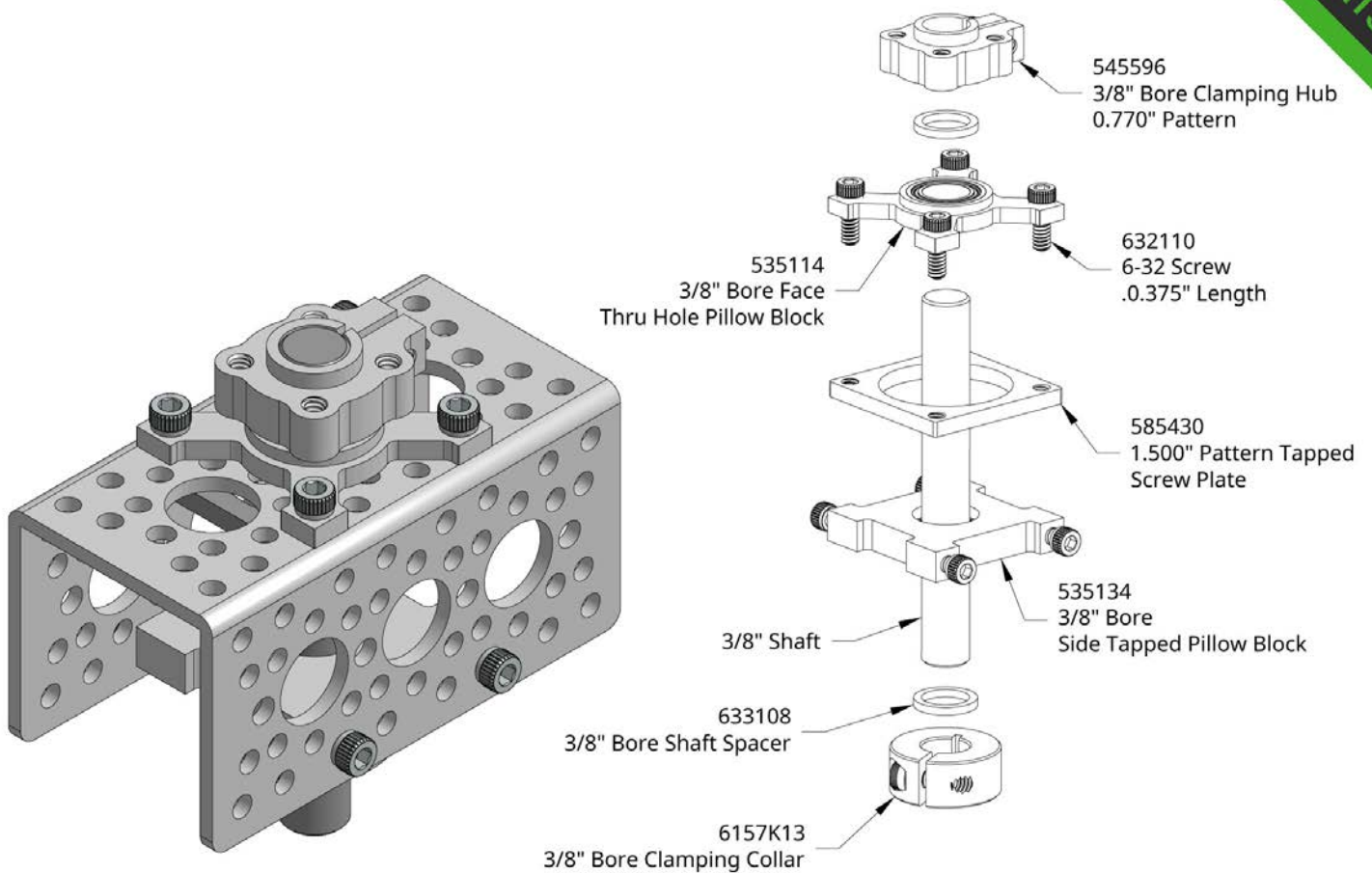
535114 Product Insight #2

Using a Face Thru Hole Pillow Block on both sides of Actobotics Channel allows a shaft to run perpendicular to the channel and be radially supported.



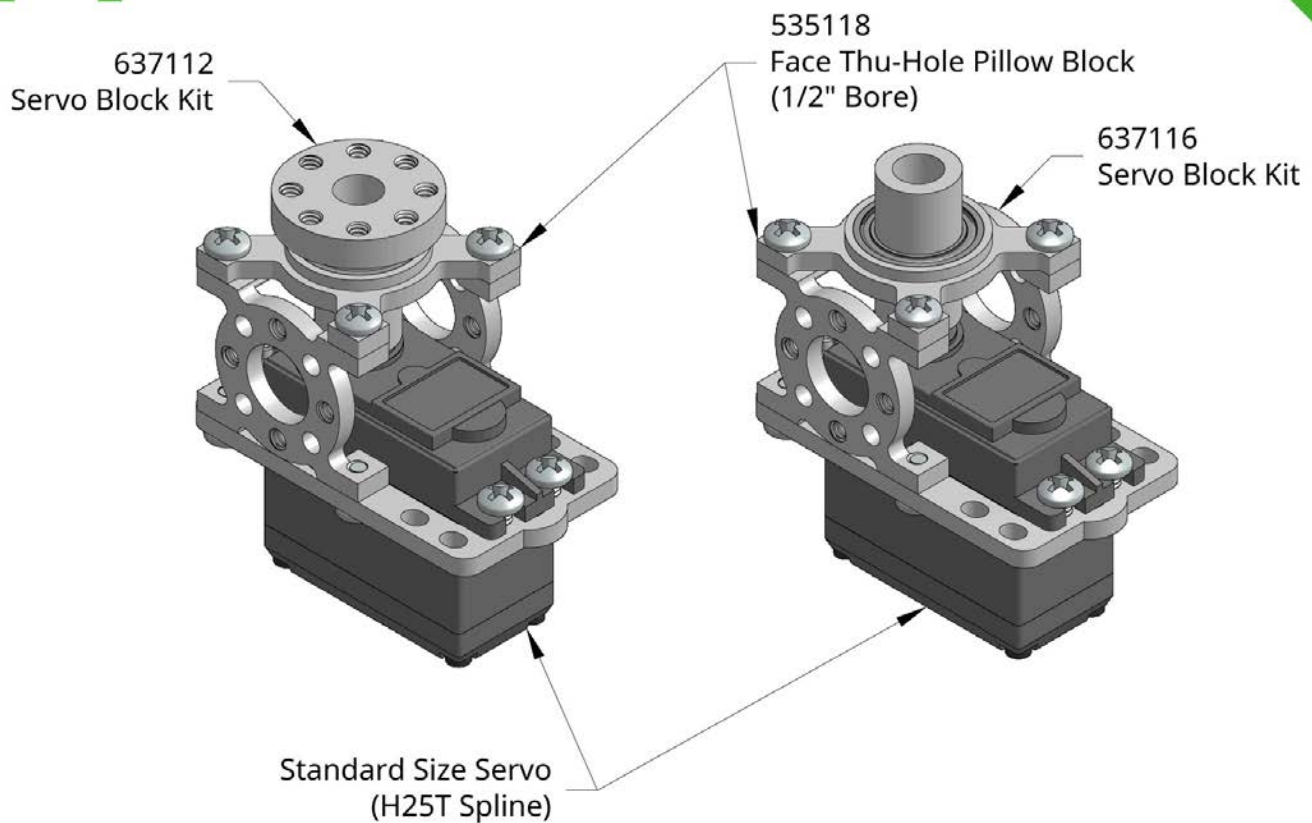
535114 Product Insight #3

Running a shaft down the center of Actobotics Channel can be done easily by adding a pillow block to the inside of channel. Using two 585470's allows the pillow block to be mounted at any location on the inside of channel.



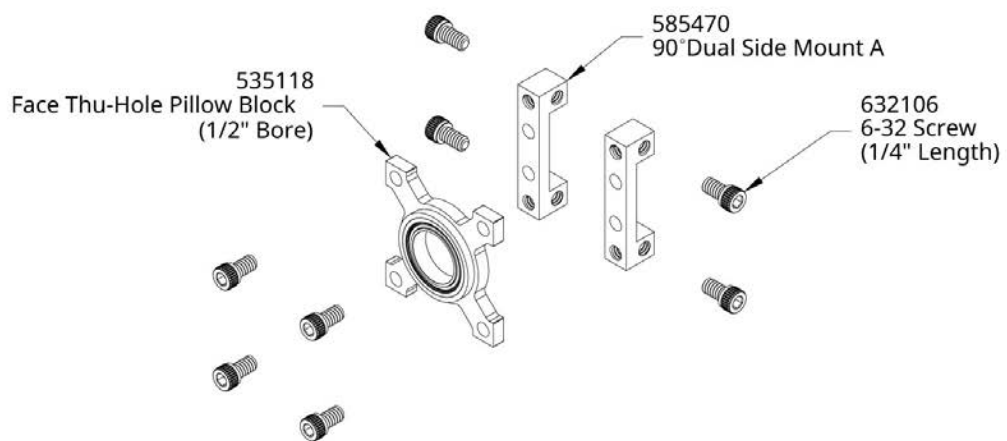
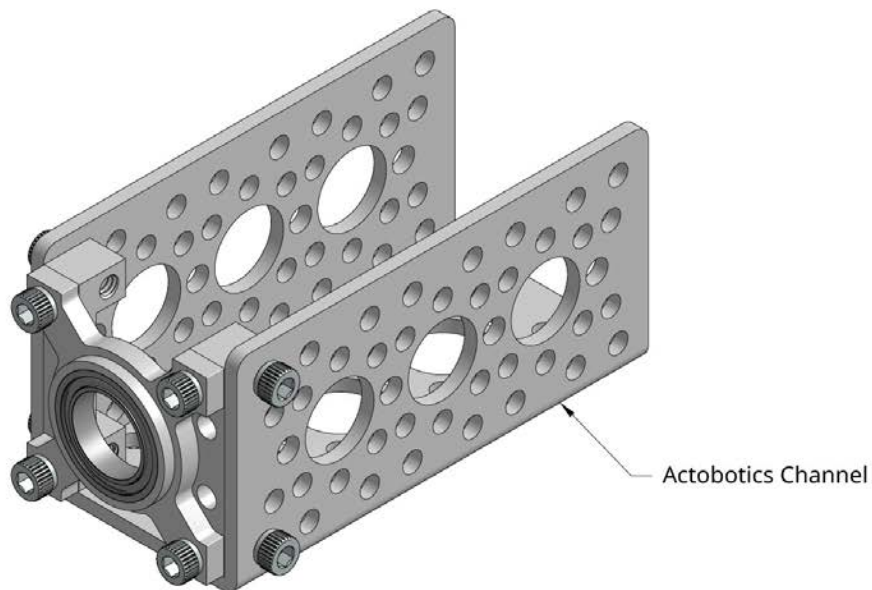
535114 Product Insight #4

When a shaft is ran through the single wall of Actobotics Channel, a face mount pillow block is a perfect option to give the shaft radial support at the channel wall.



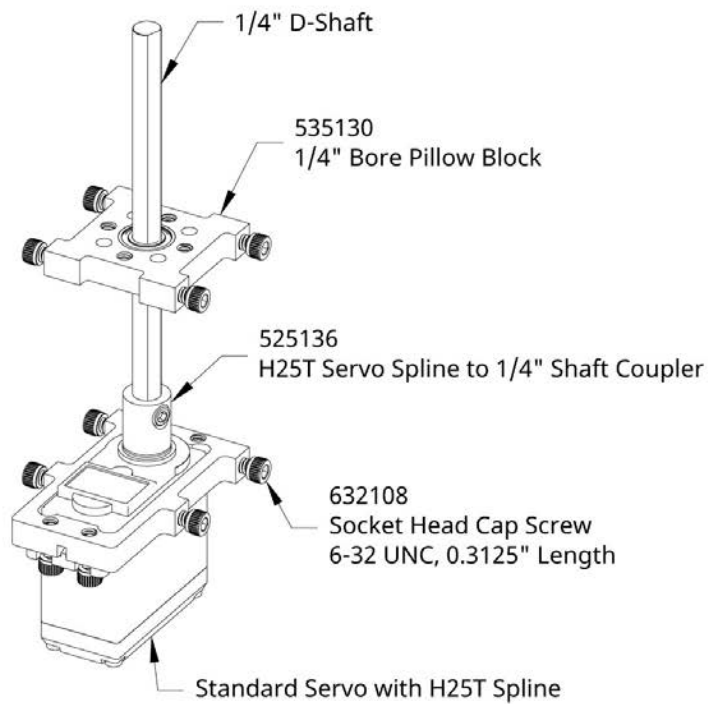
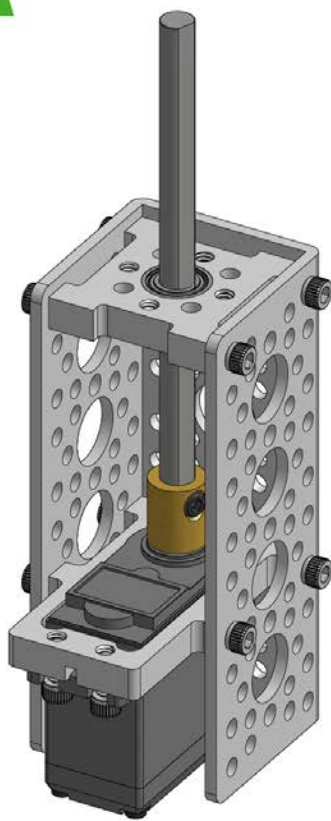
535118 Product insight #1

The 535118 is a key component in a servo block. The pillow block can be screwed down and it takes the radial load so the servo isn't damaged in high load applications.



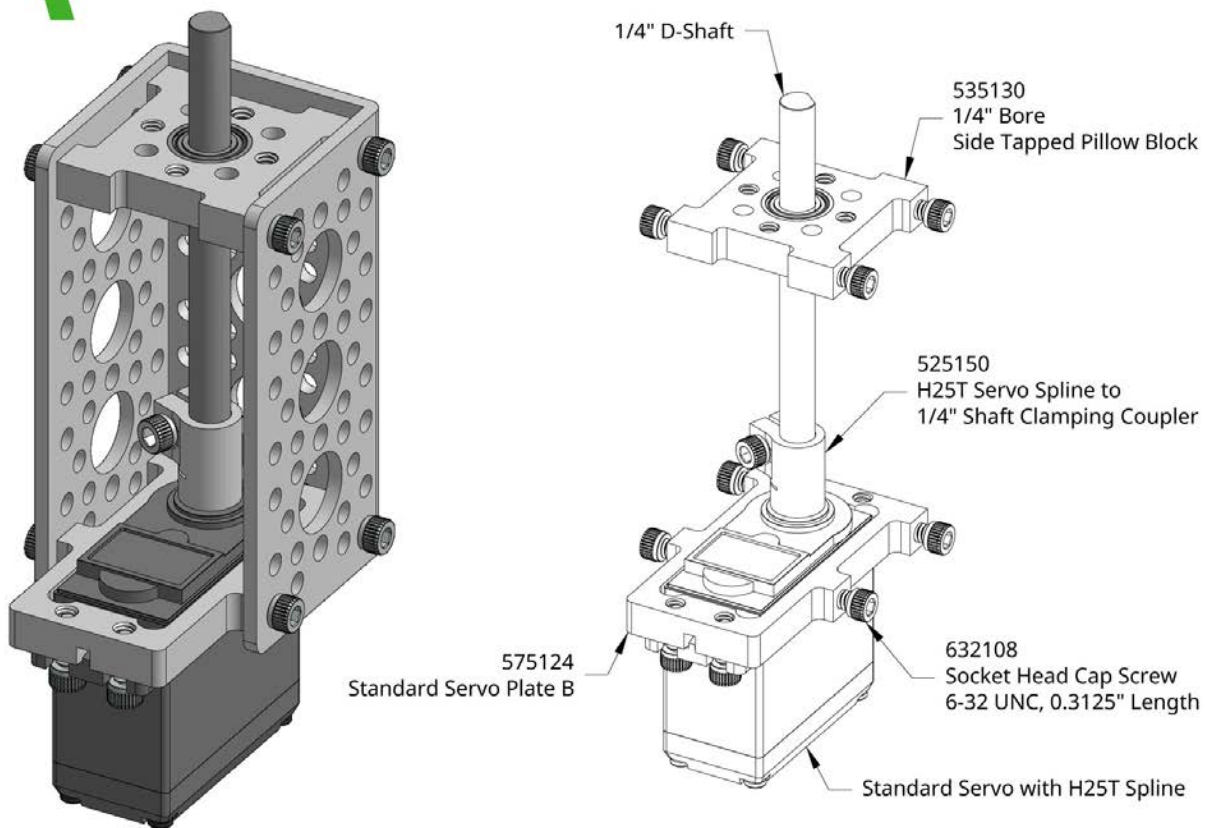
535118 Product insight #2

Running a shaft down the center of Actobotics Channel can be easily done by adding a pillow block to the inside of channel. Using two 585470's allows the pillow block to be mounted at any location on the inside of channel.



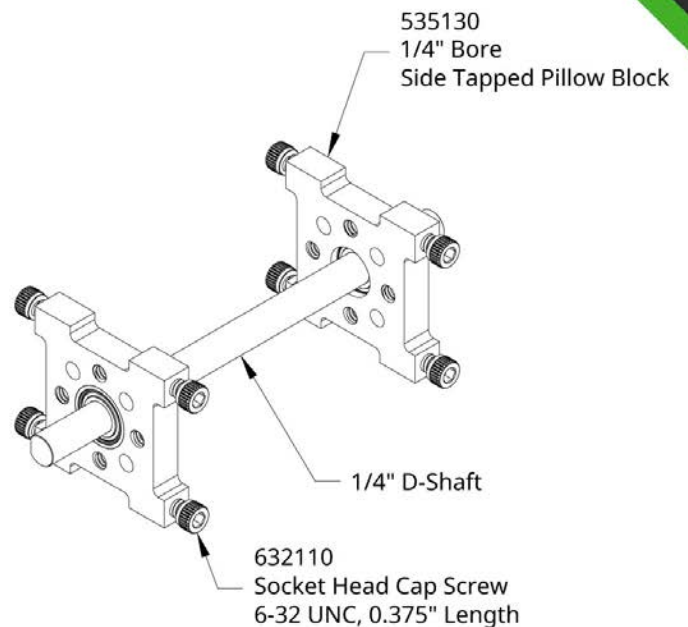
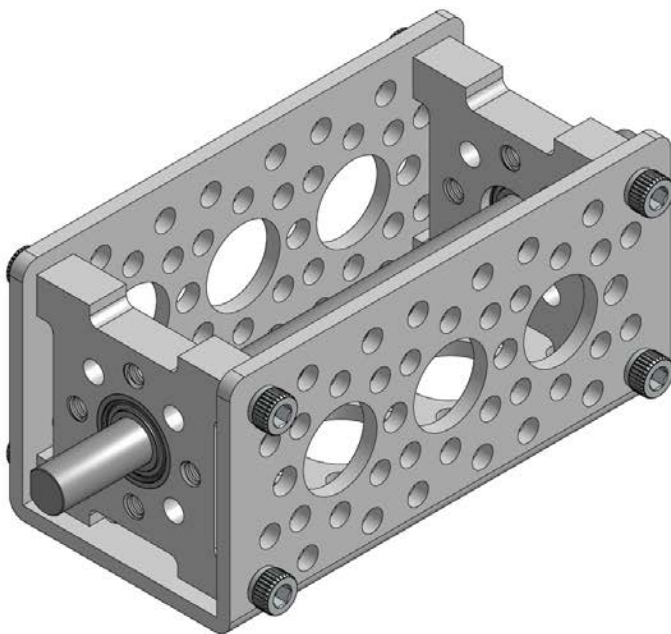
535130 Product Insight #1

A servo can be mounted inside of Actobotics channel and directly drive a 1/4" Shaft that is supported radially by a pillow block. This allows for driving heavy loads with a servo.



535130 Product Insight #2

A 535130 can be mounted in Actobotics Channel opposite of a servo with a 525150 attached to it and radially support the 1/4" shaft that is being driven by the servo.

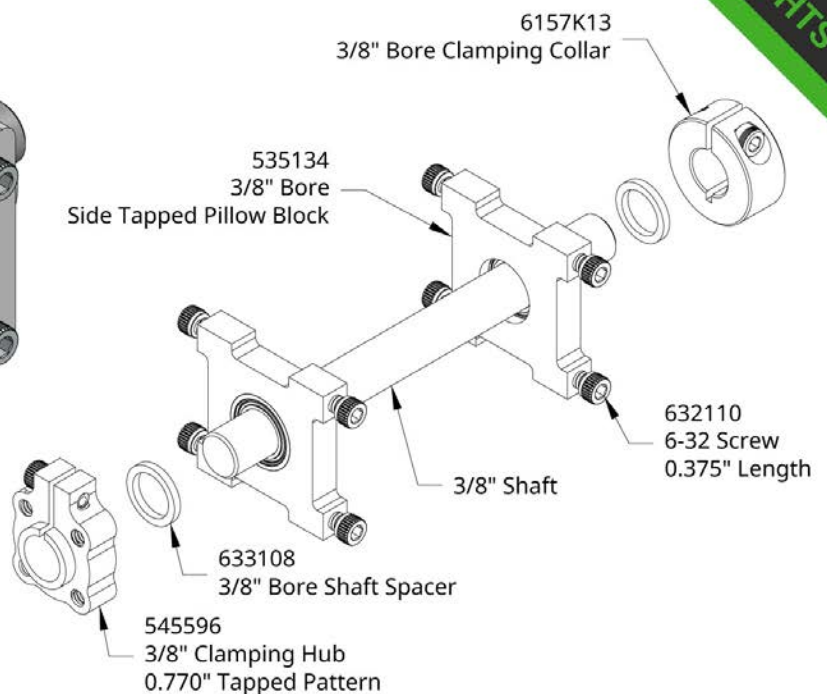
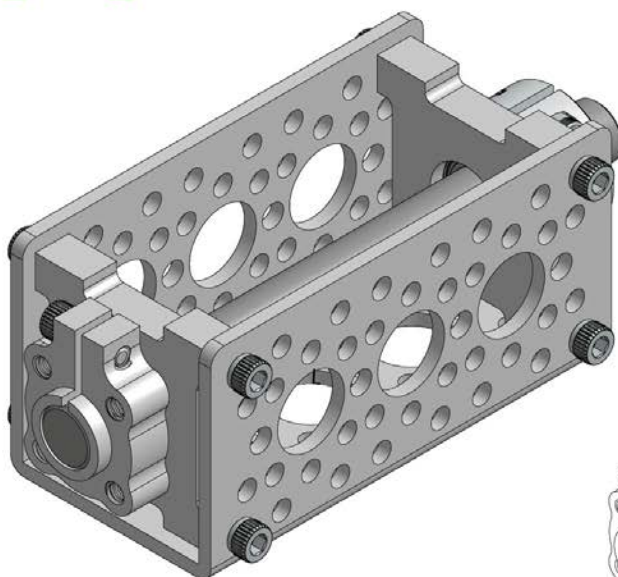


535130 Product Insight #3

When two of the 535130 are installed inside of Actobotics Channel at a distance from each other, they provide excellent radial support for a 1/4" shaft.

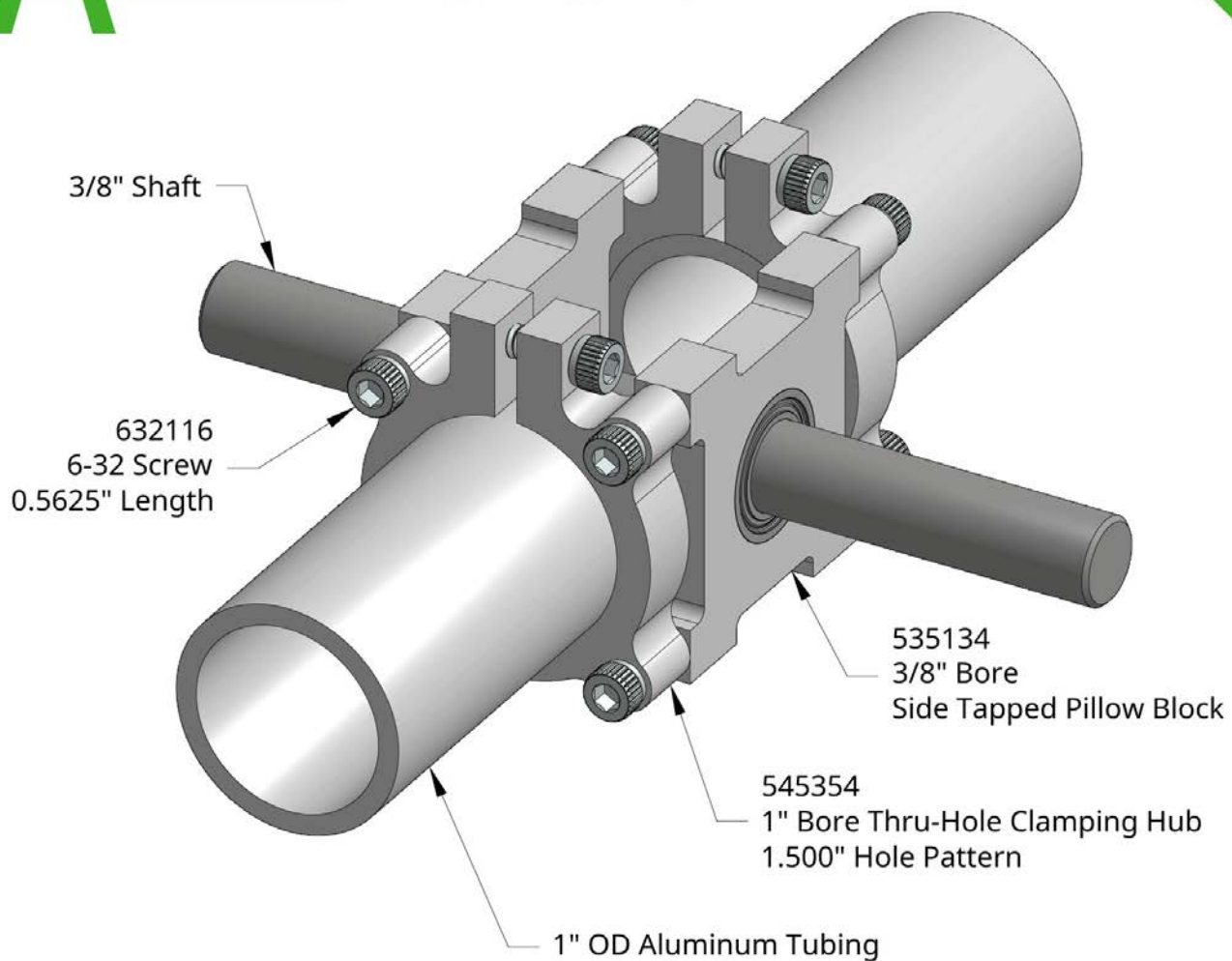


When a 1/4" shaft needs to be ran perpendicular to Actobotics channel, the 535130 side tapped pillow block can be installed across the two parallel legs of the channel. This allows the two bearings supporting the shaft to be spaced apart, giving excellent radial support to the shaft.



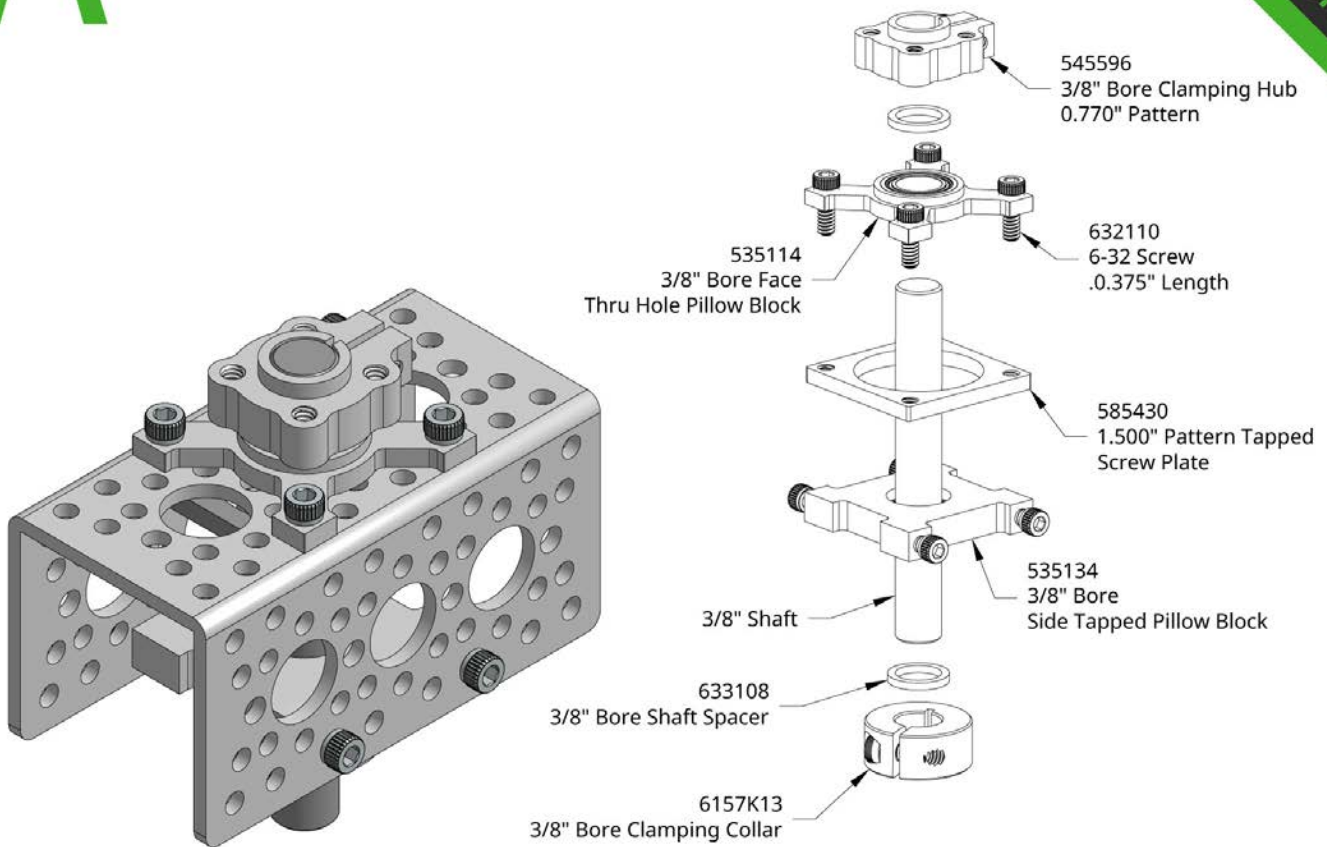
535134 Product Insight #1

When two of the 535134 are installed inside of Actobotics Channel at a distance from each other, they provide excellent radial support for a shaft.



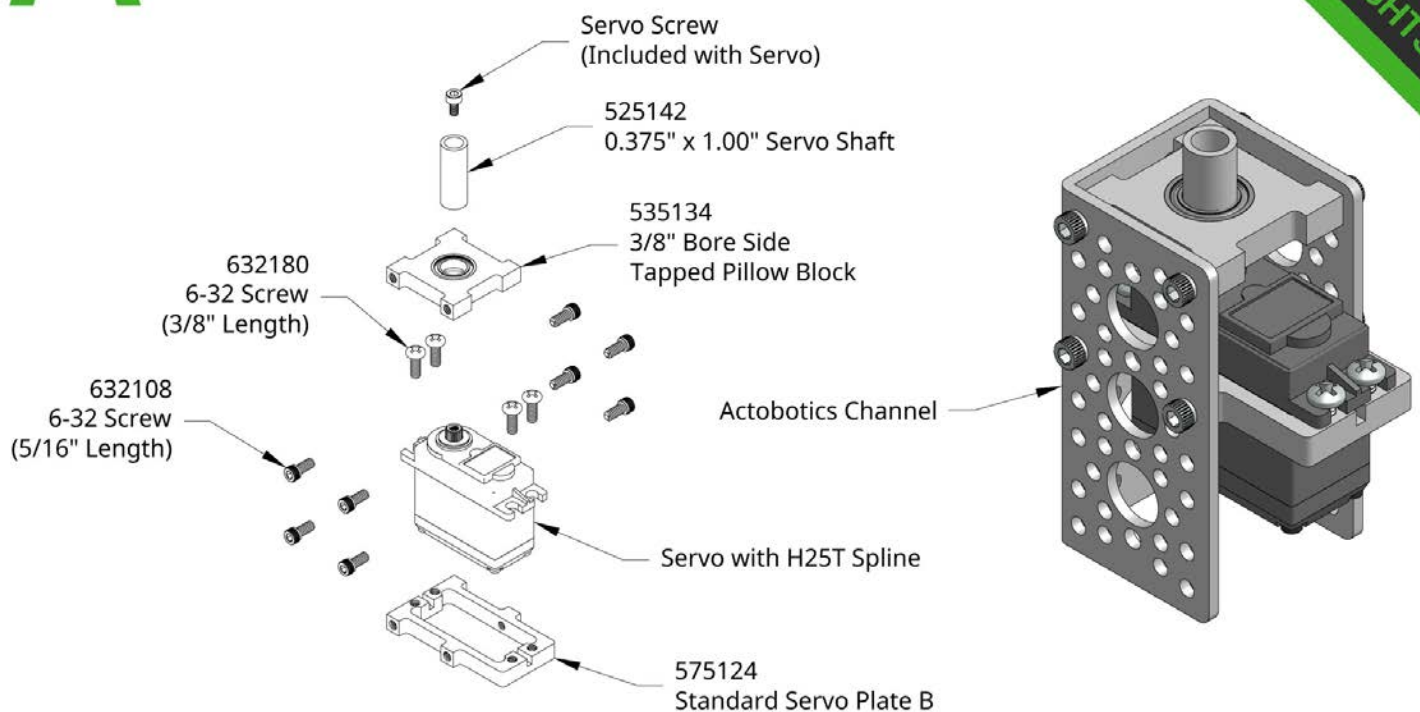
535134 Product Insight #2

Thru-Hole Clamping Hubs can be screwed into the side tapped holes of the pillow block. This allows a shaft to be ran through an assembly that is constructed of aluminum tubing.



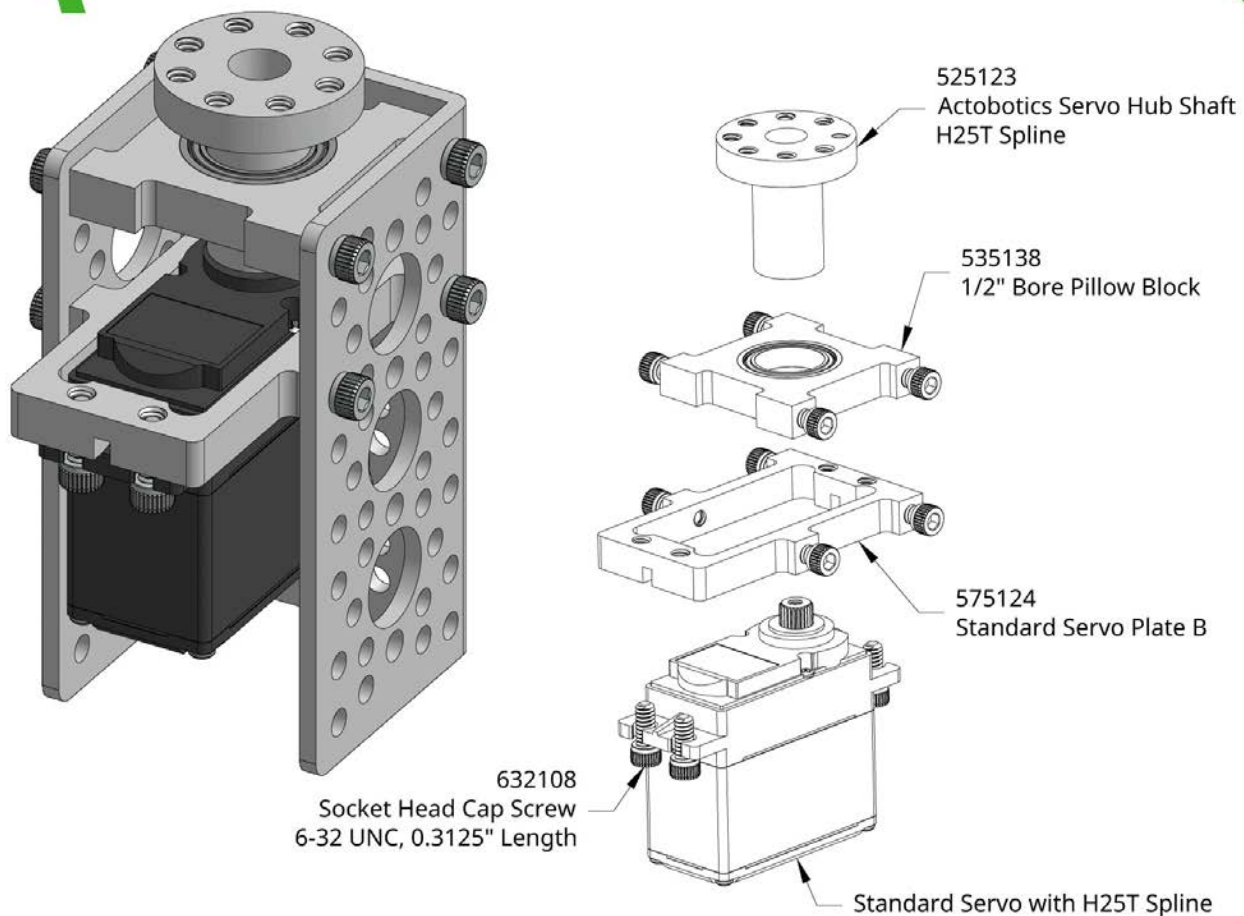
535134 Product Insight #3

When a 3/8" shaft needs to be ran through the single wall of Actobotics Channel, the 535134 side tapped pillow block can be installed between the two parallel legs of the channel. This allows the two bearings supporting the shaft to be spaced apart giving excellent radial support to the shaft.



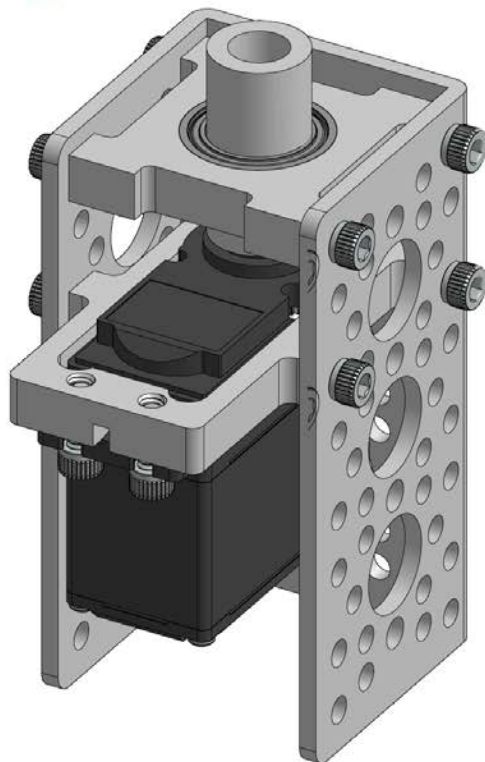
535134 Product Insight #4

A servo can be mounted inside of Actobotics channel and the Servo Shaft can be radially supported by a 535134 pillow block. This allows heavy loads to be driven without damaging the servo.

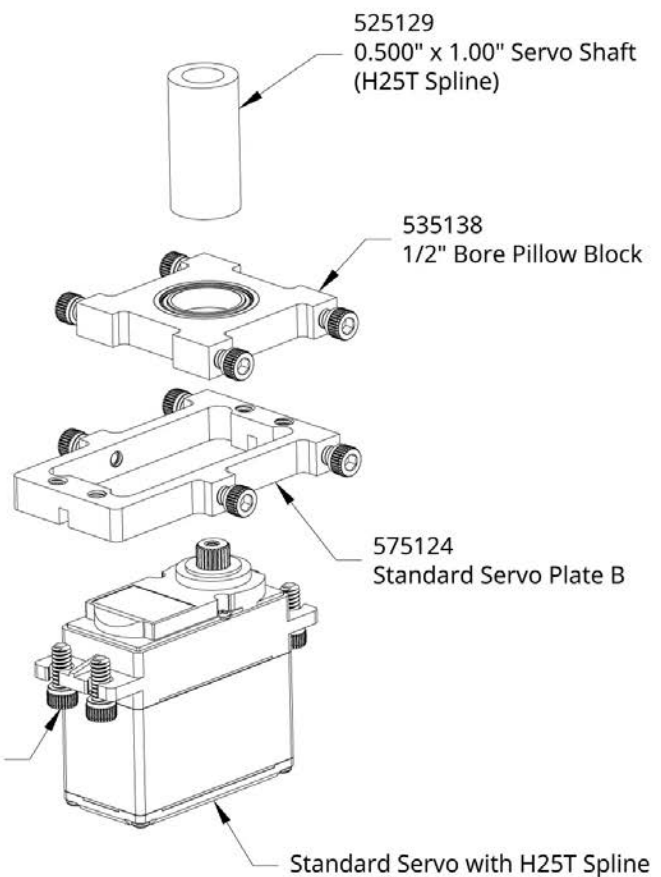


535138 Product Insight #1

A servo can be mounted inside of Actobotics Channel and the Servo Hub Shaft can be radially supported by a 535138 pillow Block. This allows heavy loads to be driven without damaging the servo. Since a servo Hub Shaft is used, any part with the Actobotics 0.770" pattern can be bolted down and driven with a servo.

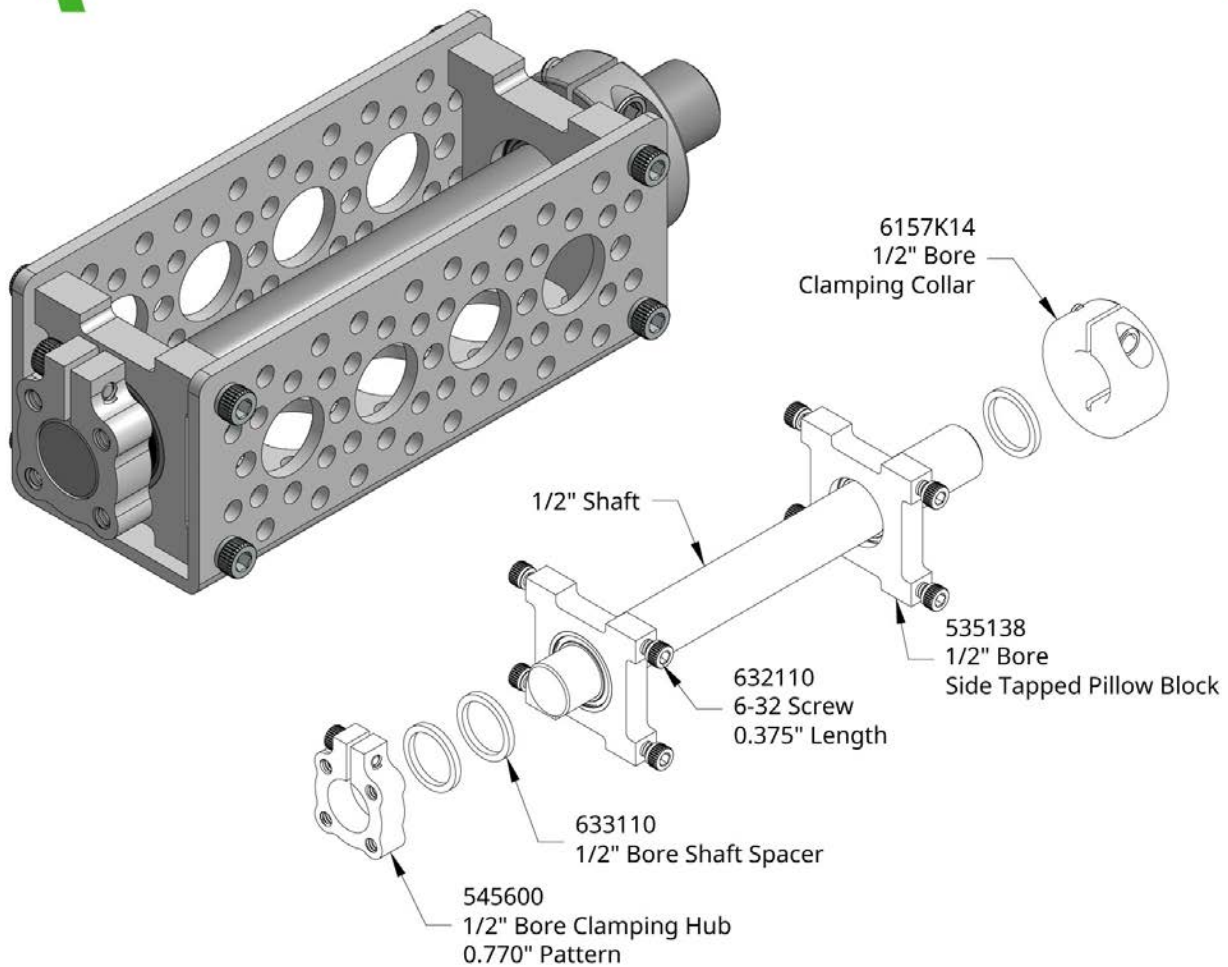


632108
Socket Head Cap Screw
6-32 UNC, 0.3125" Length



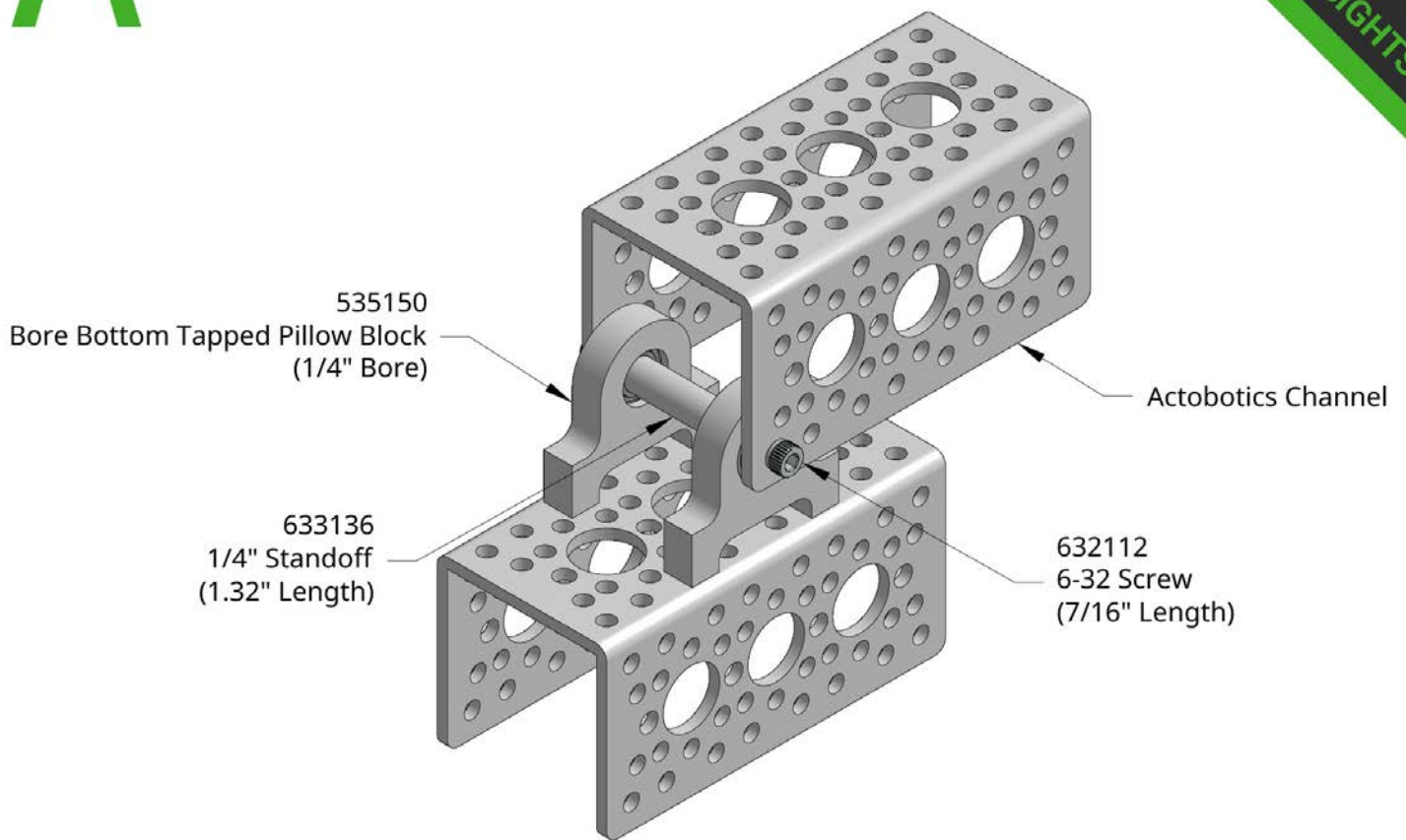
535138 Product Insight #2

When a servo is mounted inside Actobotics Channel using a 575124 the servo's output and the center of the channel have the same center point. This allows a pillow block to radially support a servo shaft that is directly driven from the servo.



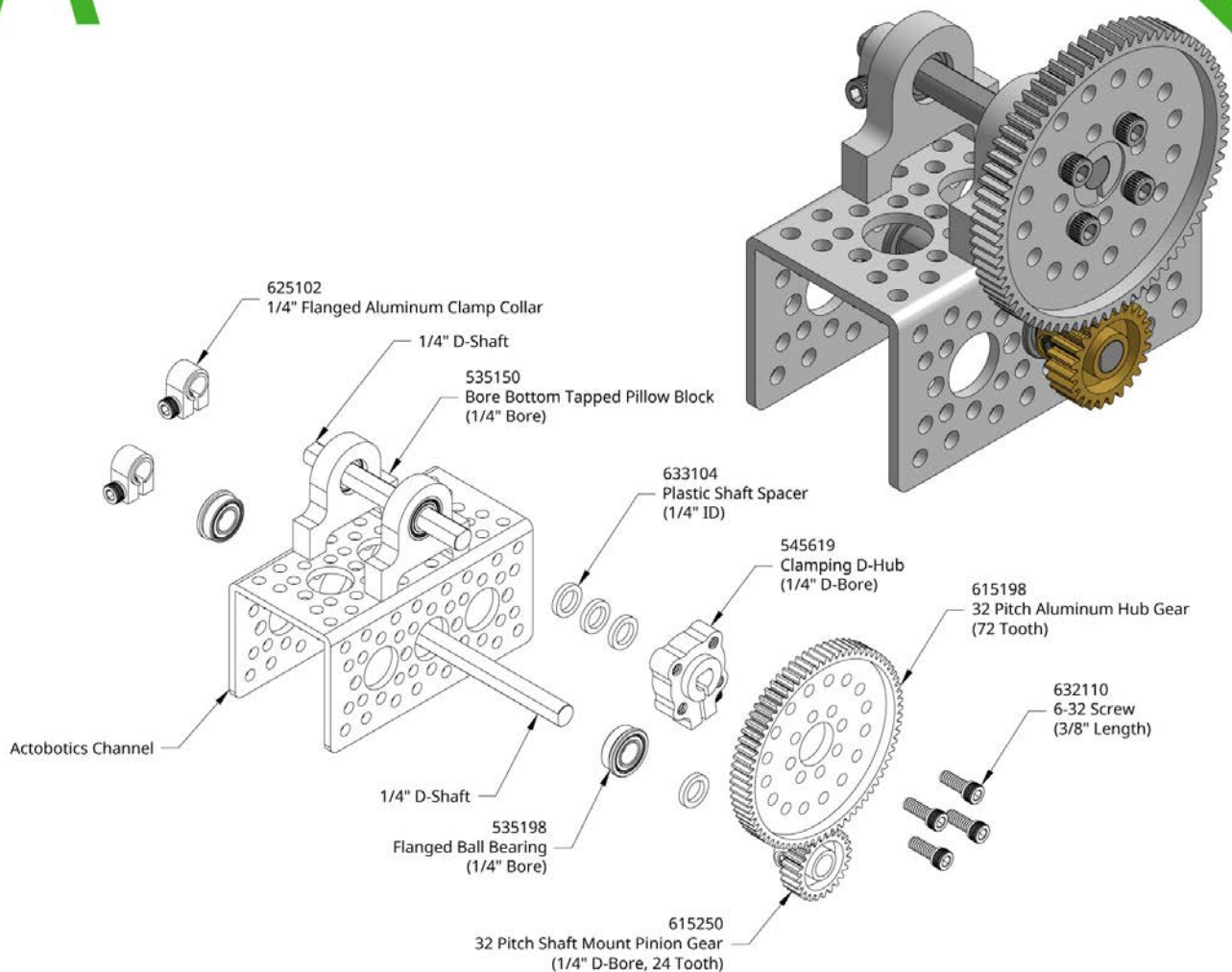
535138 Product Insight #3

When two of the 535138 are installed inside Actobotics Channel at a distance from each other, they provide excellent radial support for a 1/2" shaft.



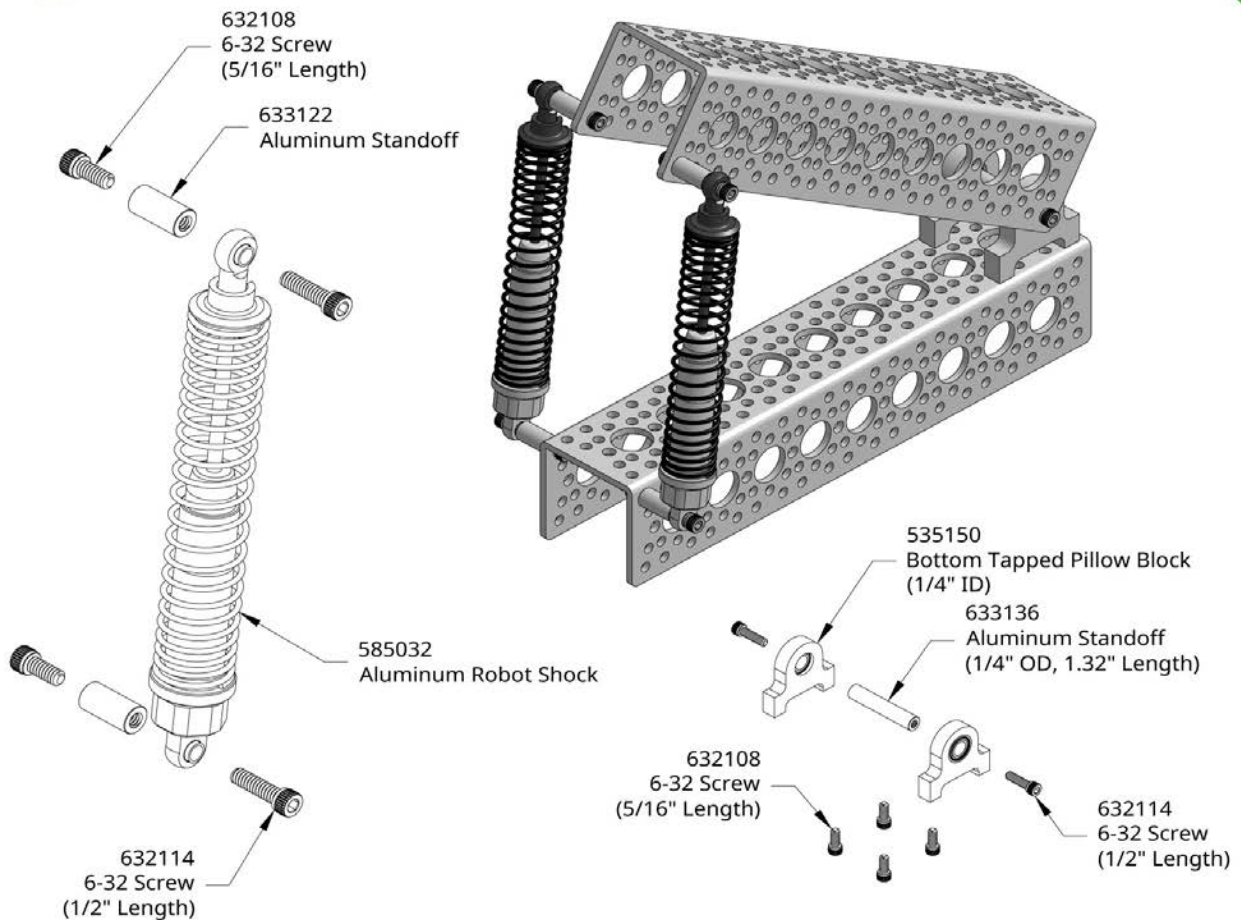
535150 Product Insight #1

A heavy duty hinge point can be created between two pieces of Actobotics Channel by inserting a 1.32" long standoff through both of the pillow blocks and screwing a piece of channel to the standoff.



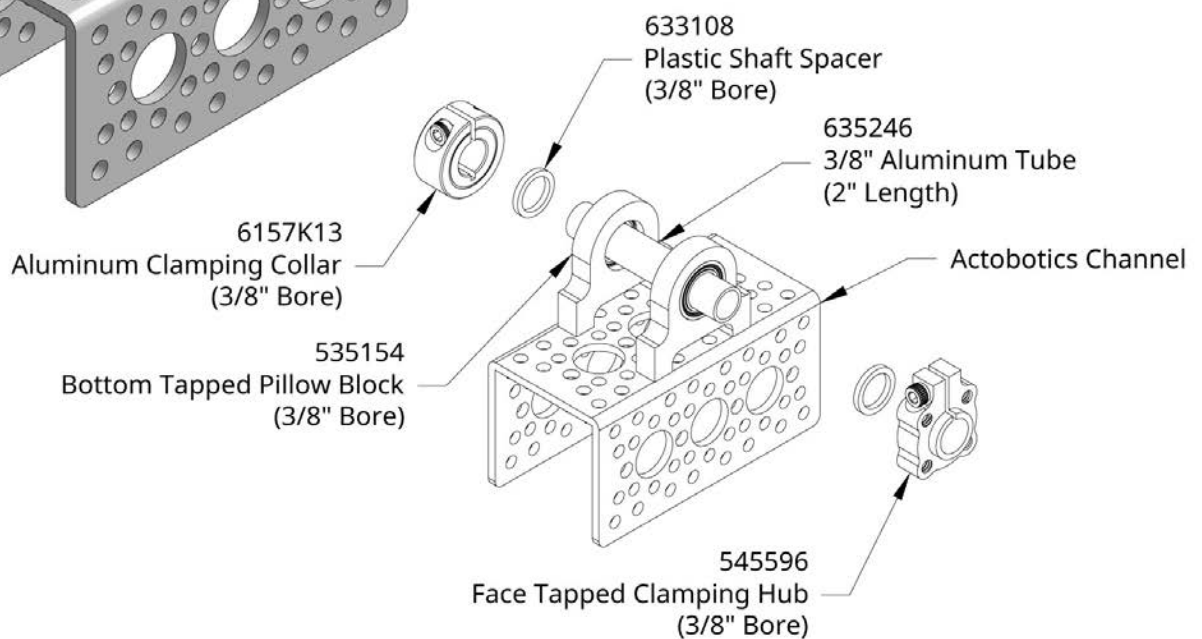
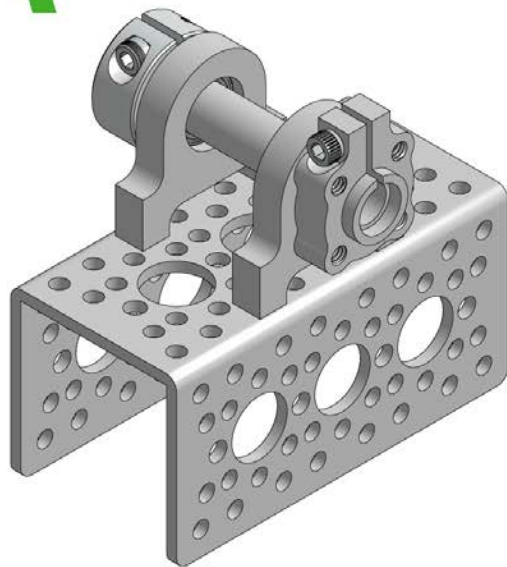
535150 Product Insight #2

Bottom Tapped Pillow Blocks are designed to continue the Actobotics Pattern when mounted on top of channel. The distance between the 0.500" hole in the channel and the center of the bearing is 1.500". This spacing allows a 3 to 1 gear ratio to be created in a very small space.



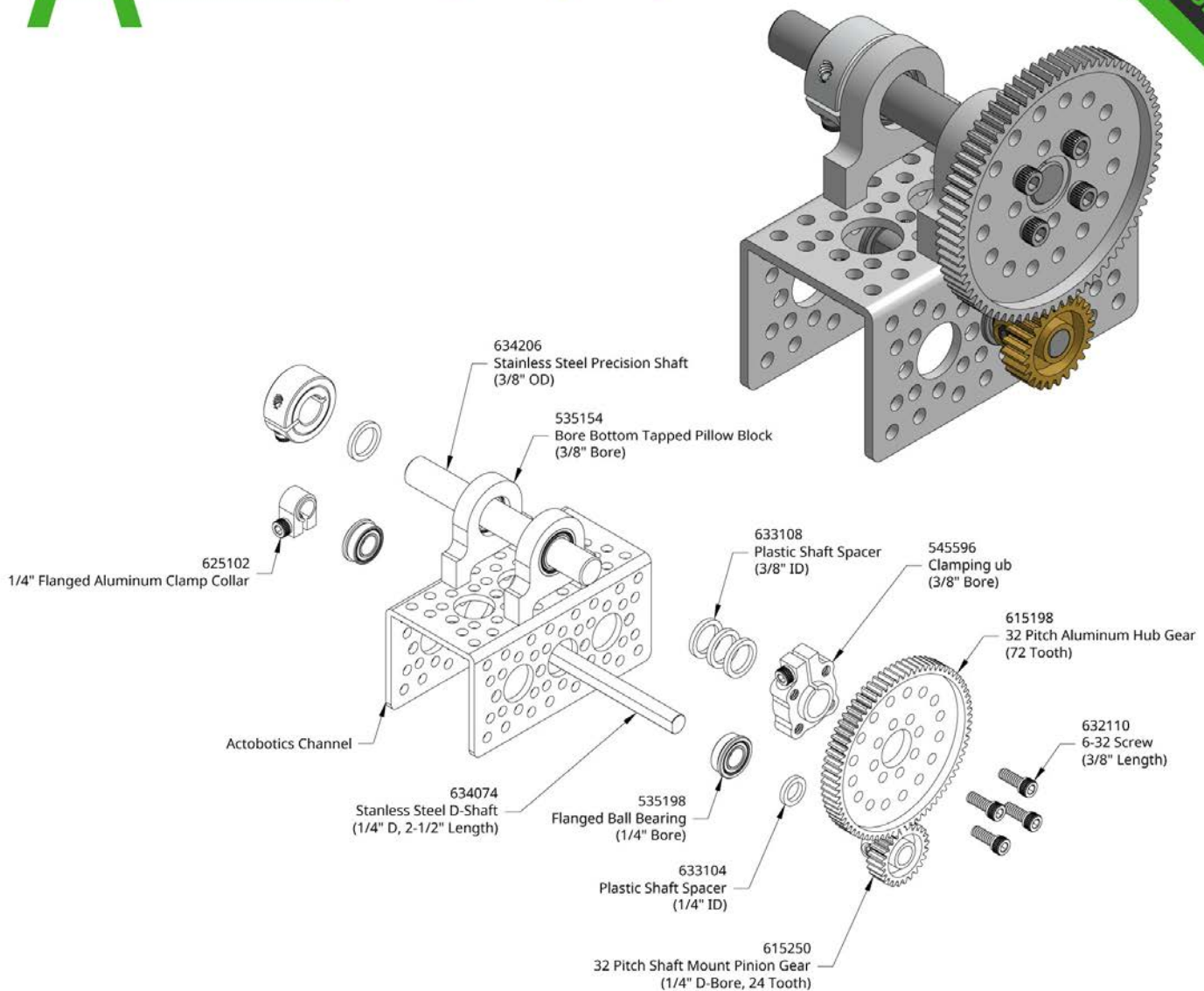
535150 Product Insight #3

Two 535150 mounted on top of Actobotics Channel act as the point of articulation for this shock system. As the two pieces of Actobotics Channel are squeezed together the 1/4" OD standoff rotates in the pillow blocks.



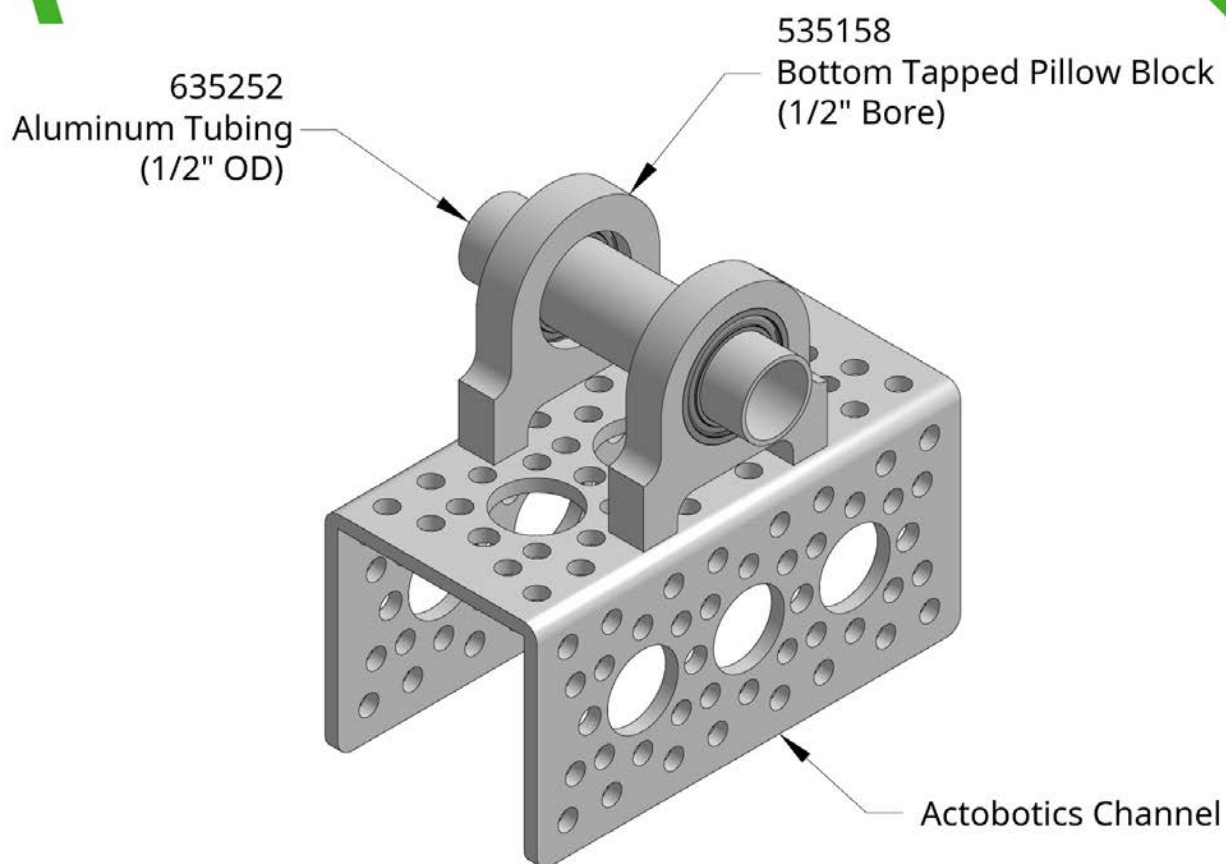
535154 Product Insight #1

Two Pillow blocks can be placed on top of channel and give excellent radial support to a shaft or tube. The addition of a Clamping Pattern Hub gives the opportunity for many hub mount Actobotics parts to be mounted and rotated with the shaft or tube.



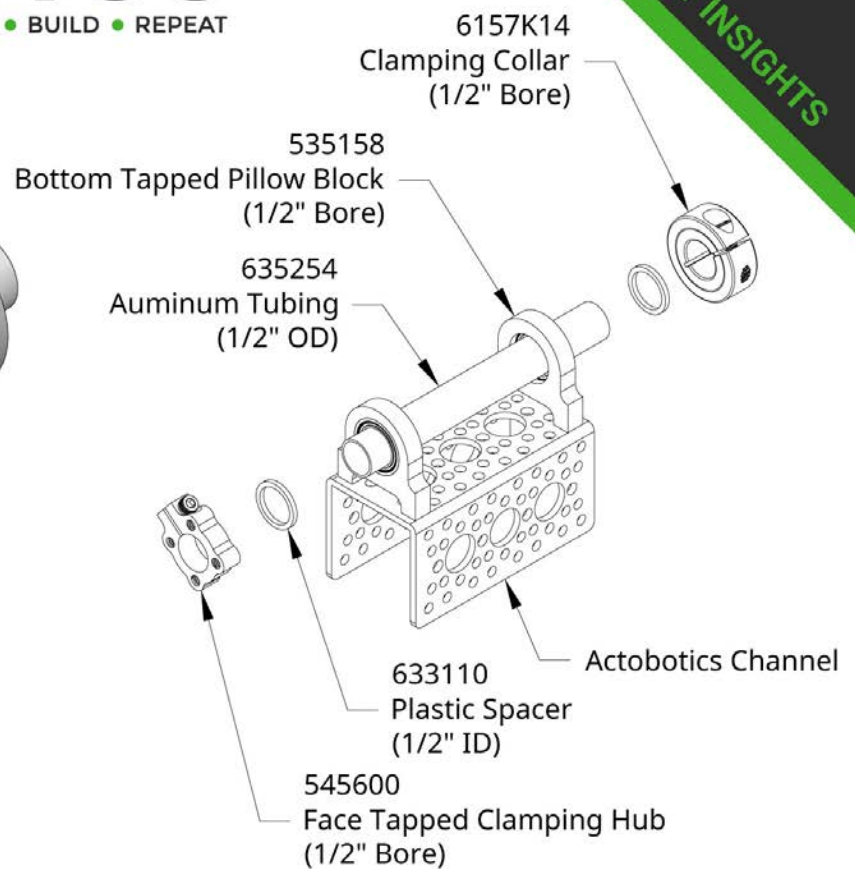
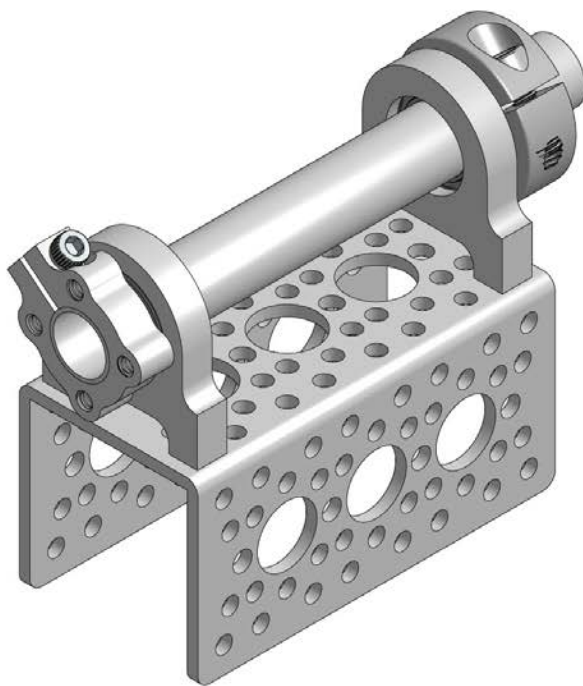
535154 Product Insight #2

Bottom Tapped Pillow Blocks are designed to continue the Actobotics Pattern when mounted on top of Actobotics Channel. The distance between the 0.500" hole in the channel and the center of the bearing is 1.500". This spacing allows a 3 to 1 gear ratio to be created in a very small space.



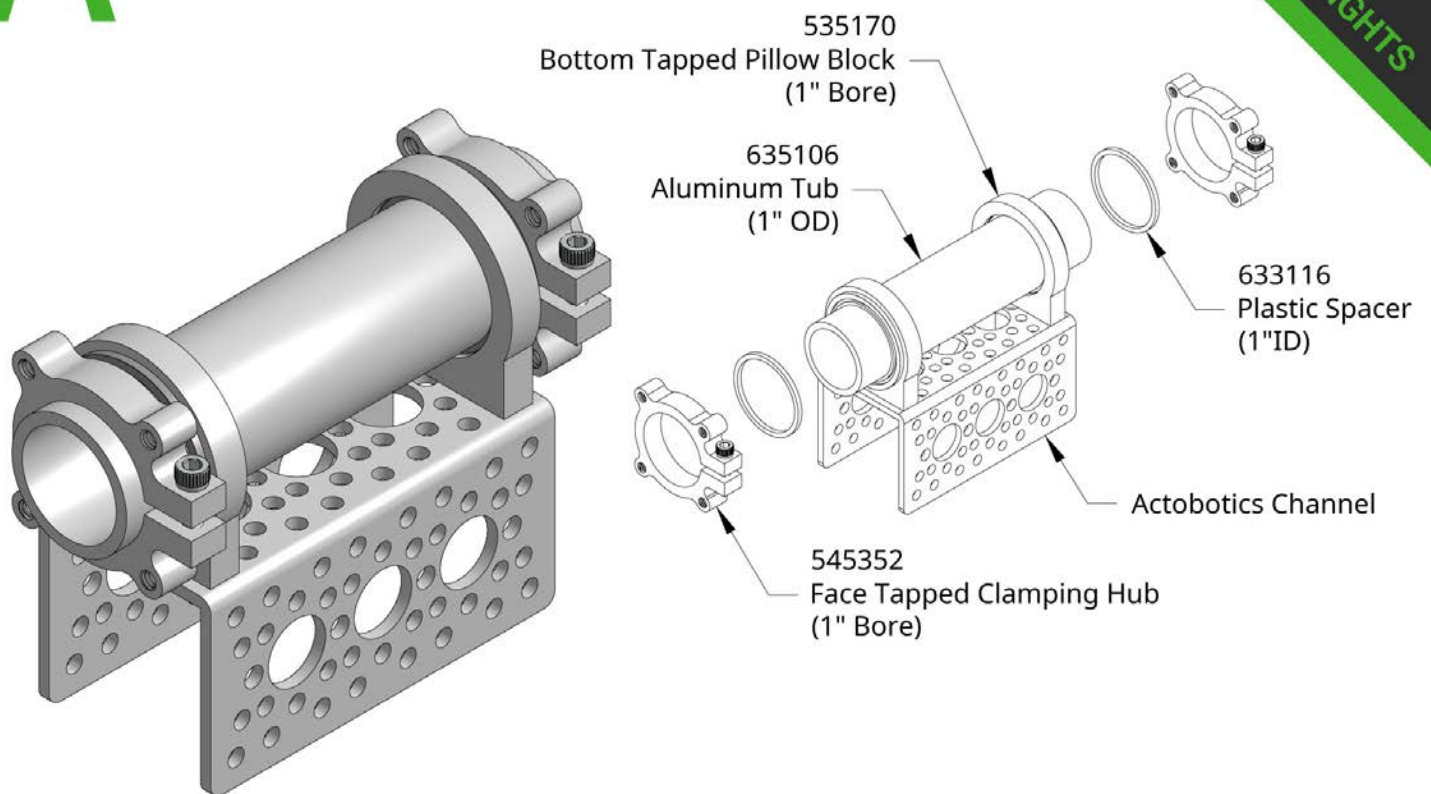
535158 Product Insight #1

Two Pillow blocks can be placed on top of channel and give excellent radial support to a shaft or tube.



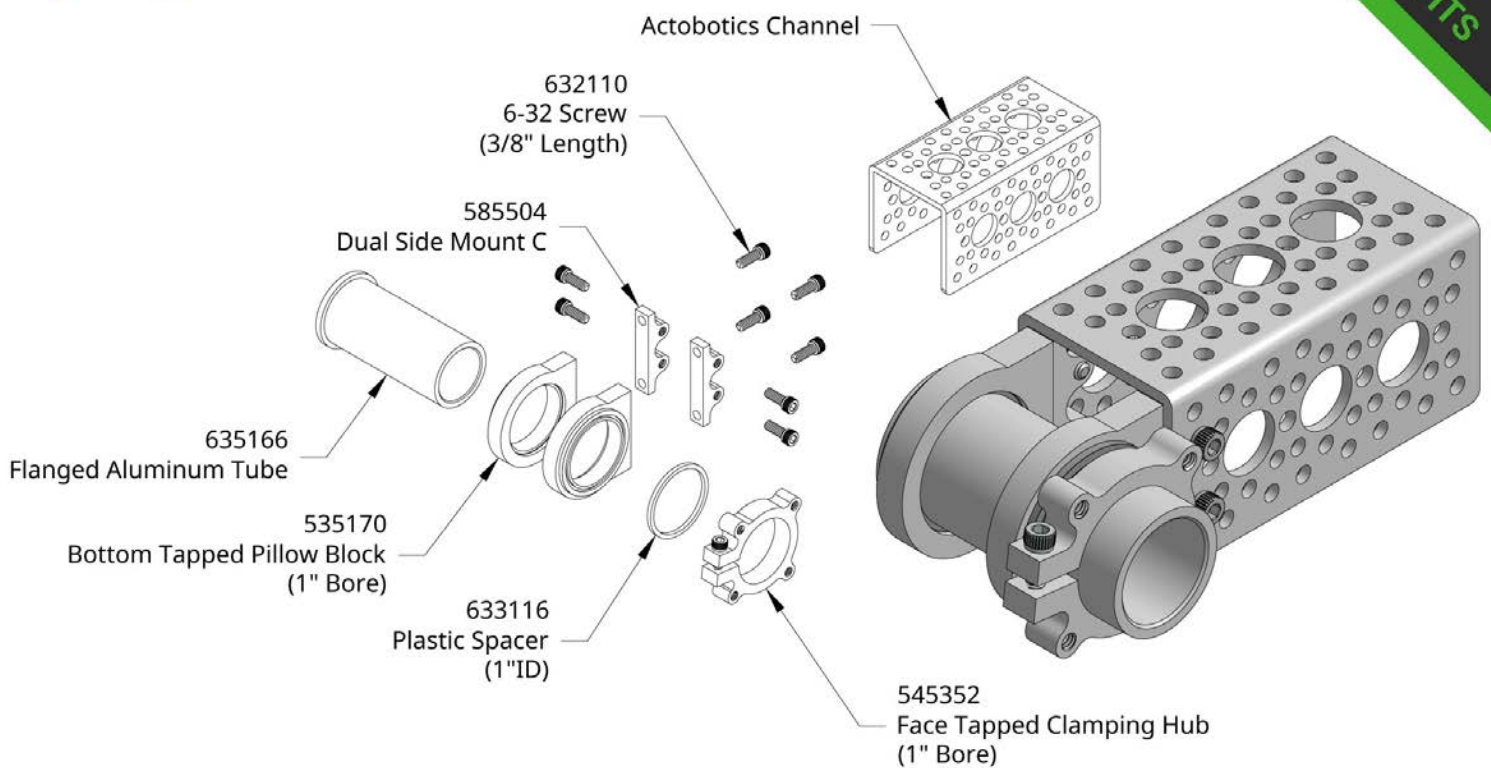
535158 Product Insight #2

Two Pillow blocks can be placed on top of channel and give excellent radial support to a shaft or tube. The addition of a Clamping Pattern Hub gives the opportunity for many hub mount Actobotics parts to be mounted and rotated with the shaft or tube.



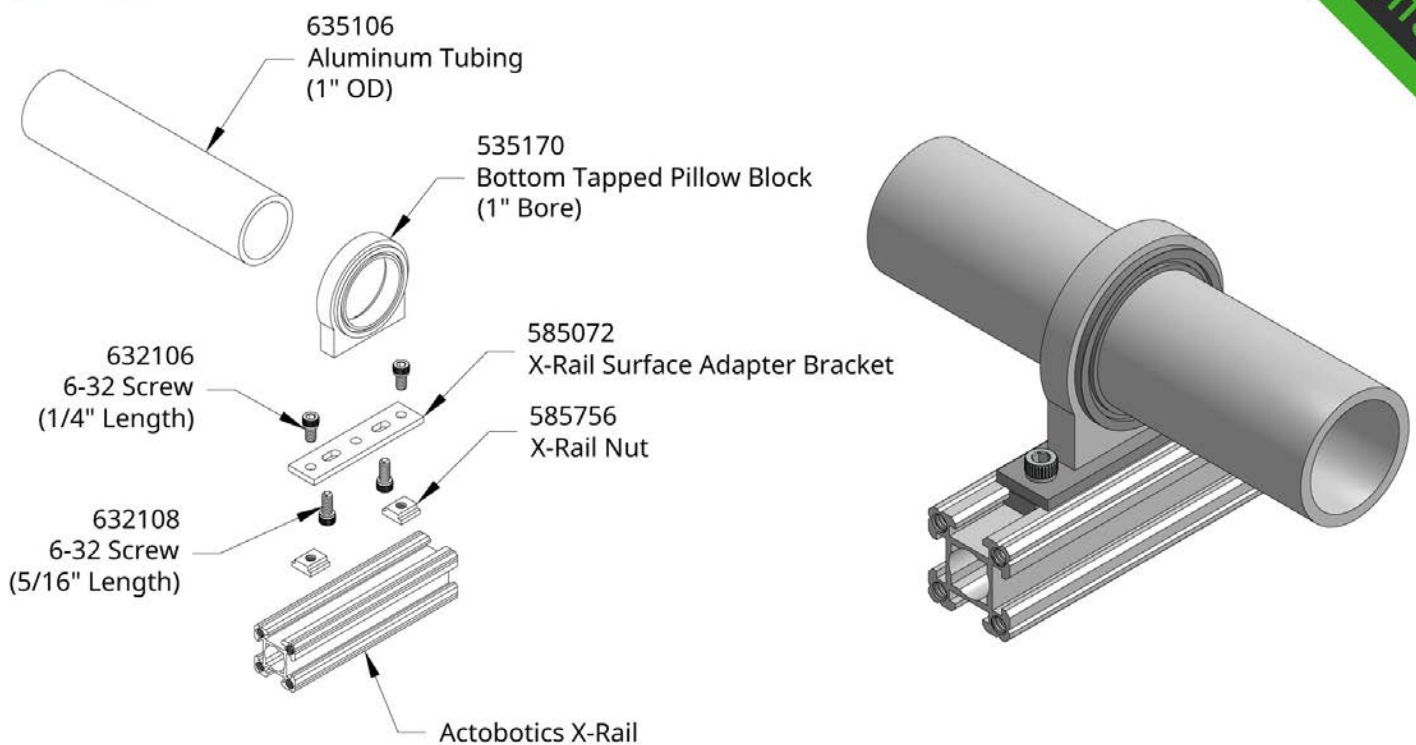
535170 Product Insight #1

When two of the 535170 are mounted to a wall of Actobotics Channel at a distance from each other, they provide excellent radial support for a 1" O.D. Aluminum Tube. Shaft spacers and clamping hubs then can be installed on the tube outside of the pillow blocks to axially constrain the hub.



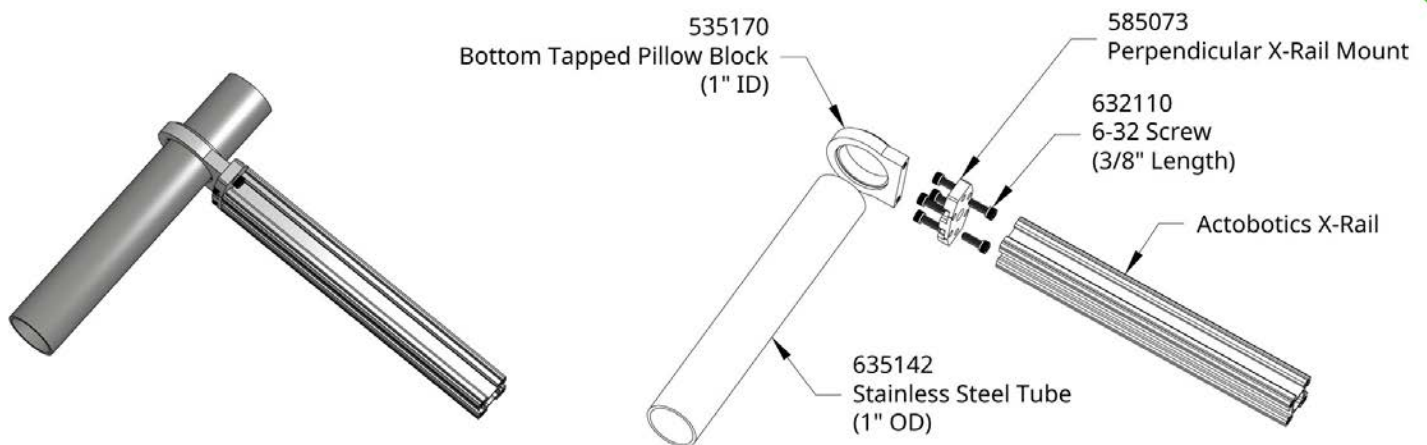
535170 Product Insight #2

A 1" aluminum tube can be rotated on the end of Actobotics Channel by mounting two pillow blocks to two 585504's. If a flanged aluminum tube is used, then only one side of the tube needs a shaft spacer and a clamping hub to axially constrain the tube.



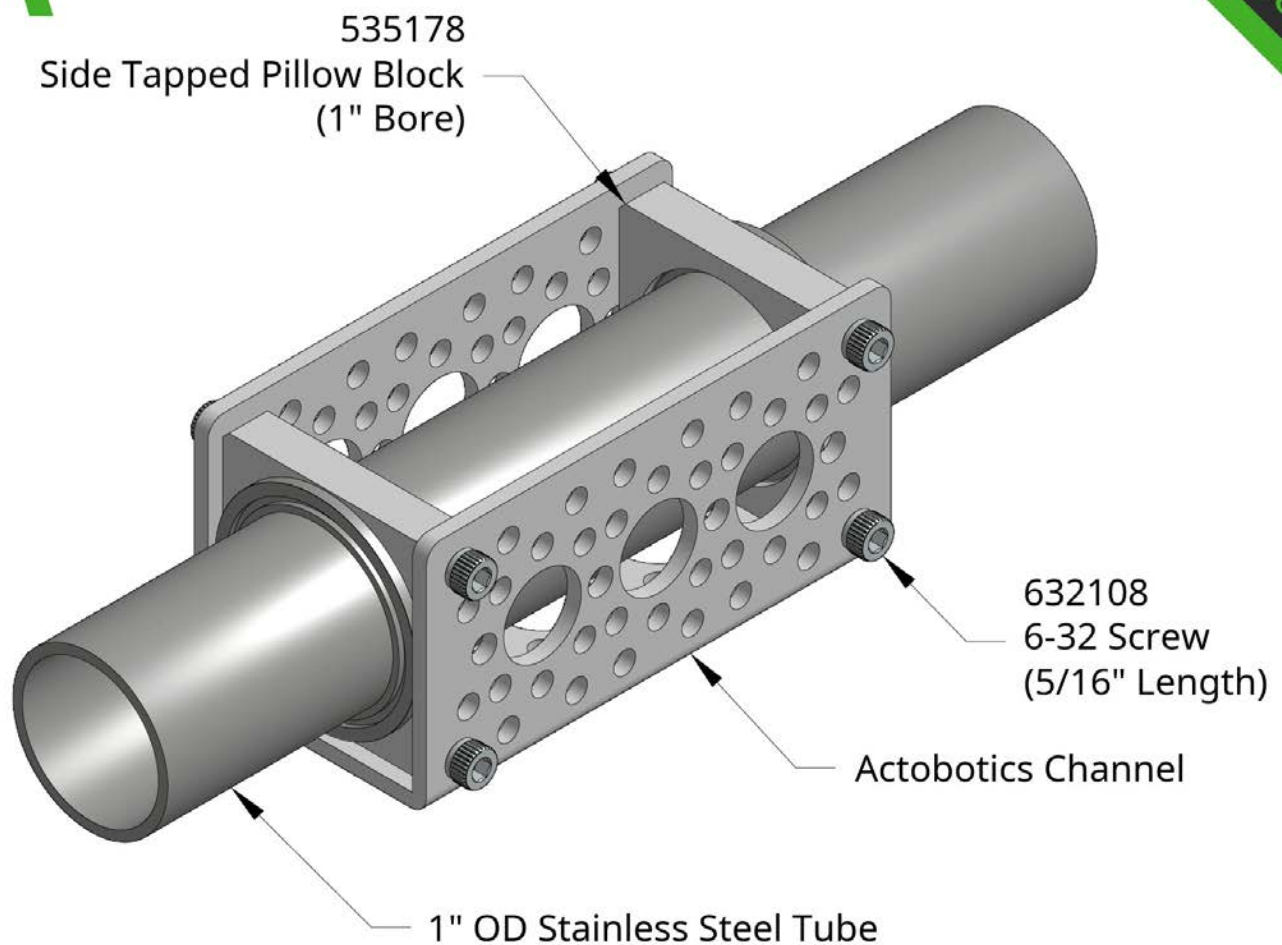
535170 Product insight #1

A 1" aluminum tube can be radially supported at any location on a piece of Actobotics X-Rail. The pillow block can be mounted to an X-Rail Surface Adapter Bracket and then slid down the X-Rail to the desired location and the 6-32 screws can be tightened down to lock the assembly into place.



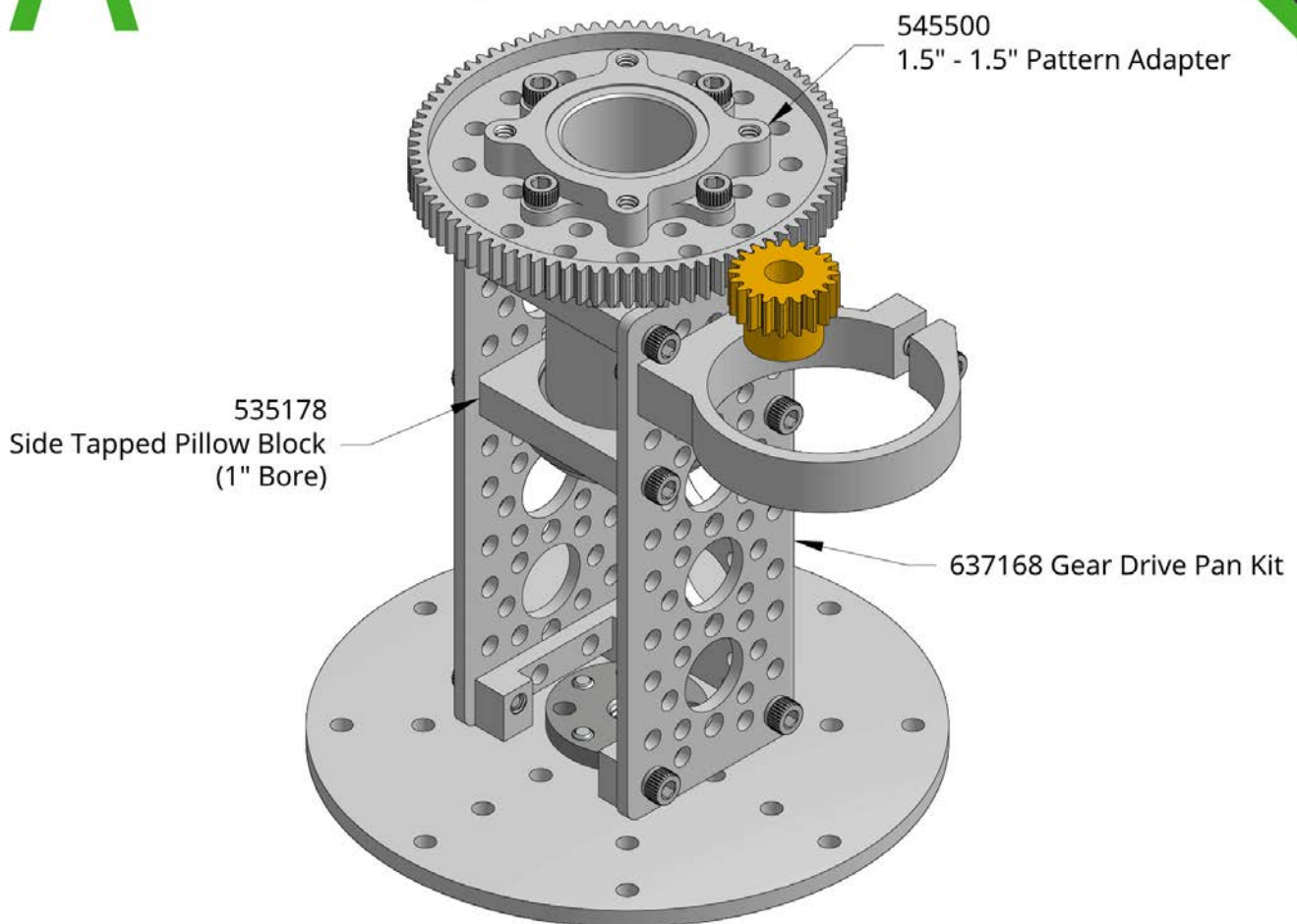
535170 Product Insight #4

A 1" aluminum tube can be radially supported on the end of Actobotics X-Rail by simply screwing a Bottom Tapped Pillow Block to a Perpendicular X-Rail Mount that is installed on the end of X-Rail.



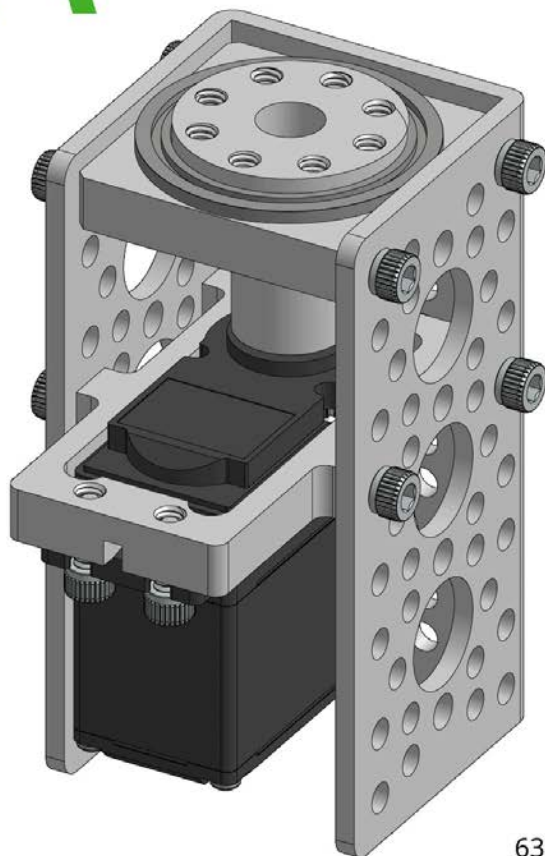
535178 Product Insight #1

When two Side Tapped Pillow Block's are installed inside Actobotics Channel at a distance from each other they provide excellent radial support for a 1" tube.

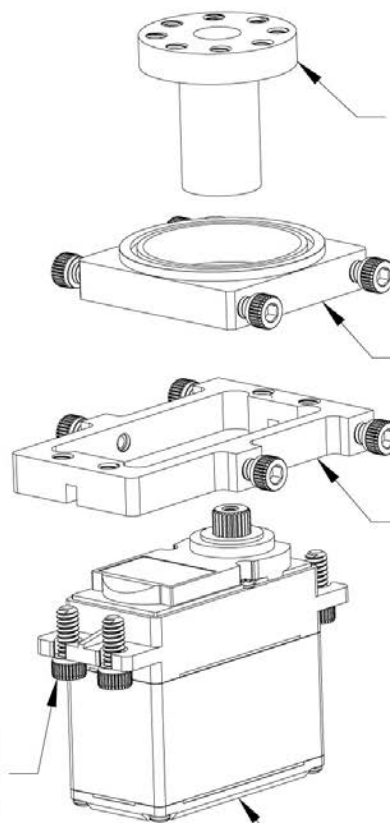


535178 Product Insight #2

A pair of 535178's are at the heart of the Gear Drive Pan Kit. They provide radial support for the gear reduction and also whatever is attached to the 545500.



632108
Socket Head Cap Screw
6-32 UNC, 0.3125" Length



525123
Actobotics Servo Hub Shaft
H25T Spline

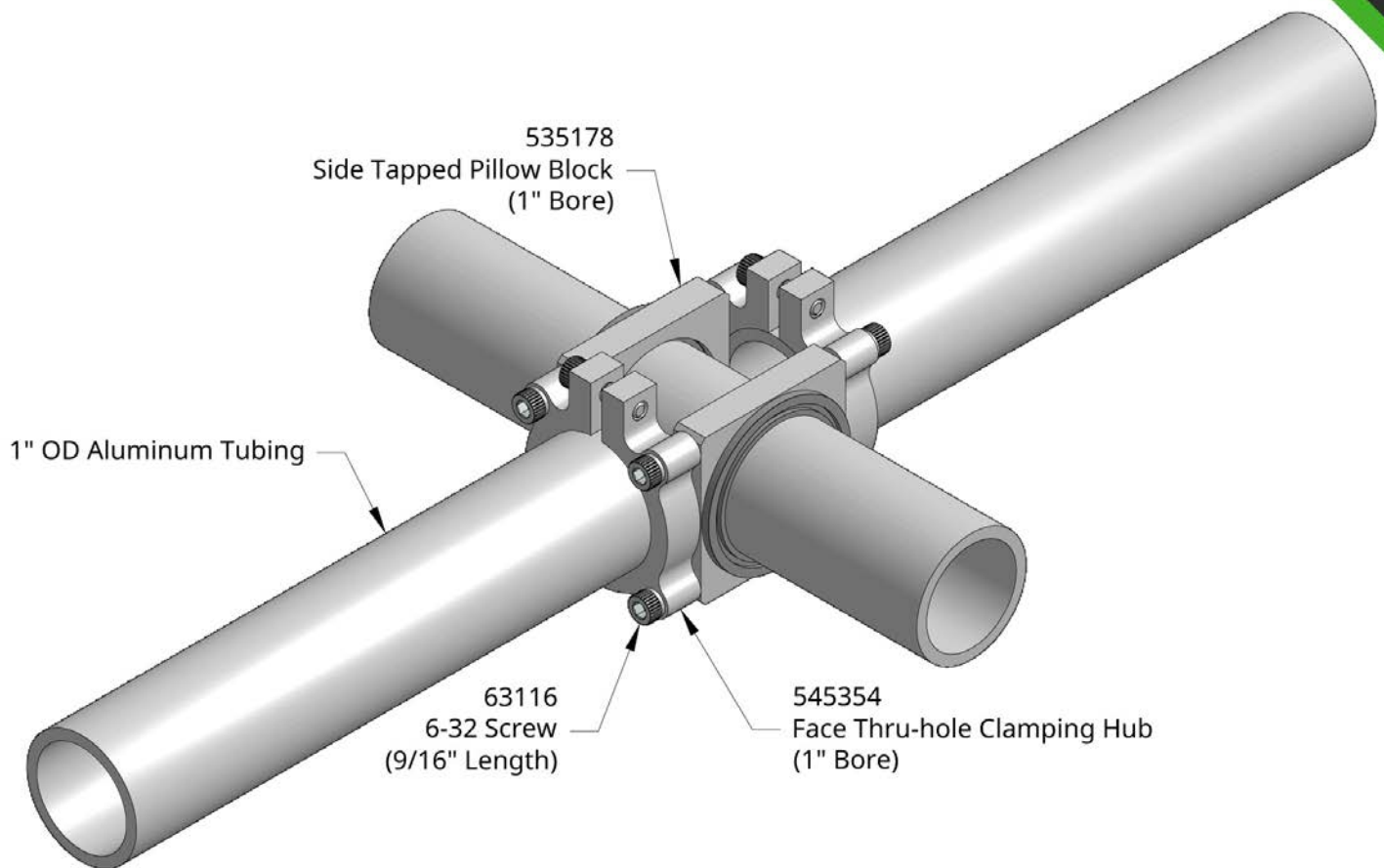
535178
1" Bore Pillow Block

575124
Standard Servo Mount B

Standard Servo with H25T Spline

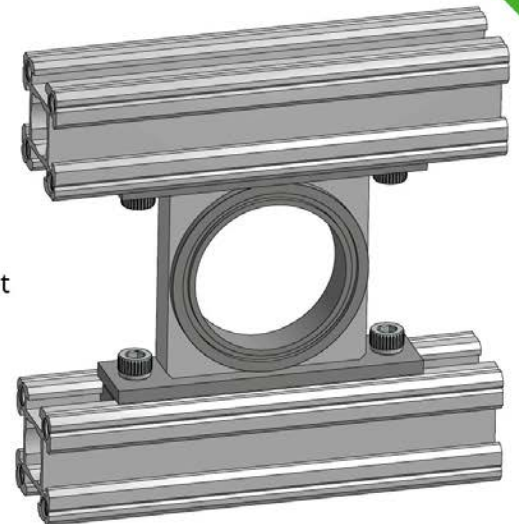
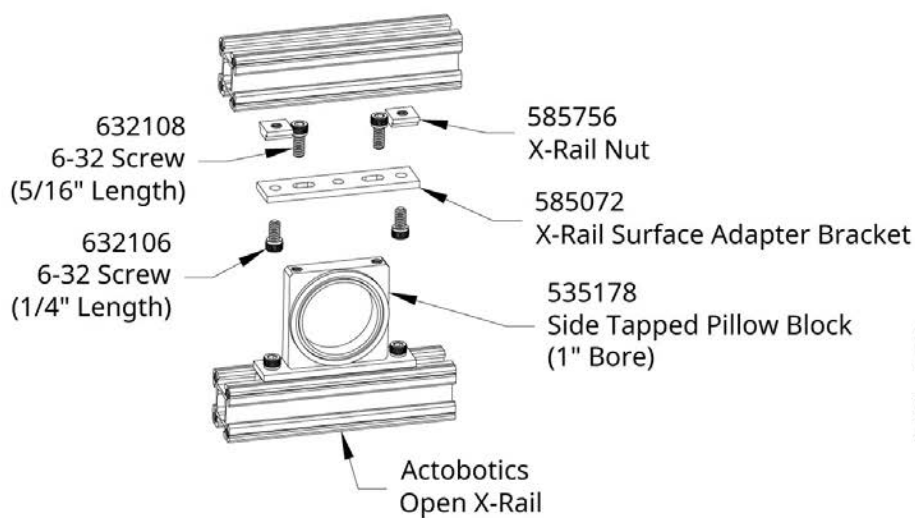
535178 Product Insight #3

When a servo is mounted inside of channel with a 575124 the output of the servo and the center point of the channel are concentric. If a Servo Hub shaft is attached to the servo, the hub shaft can be radially supported by a 535178 that is mounted inside of channel.



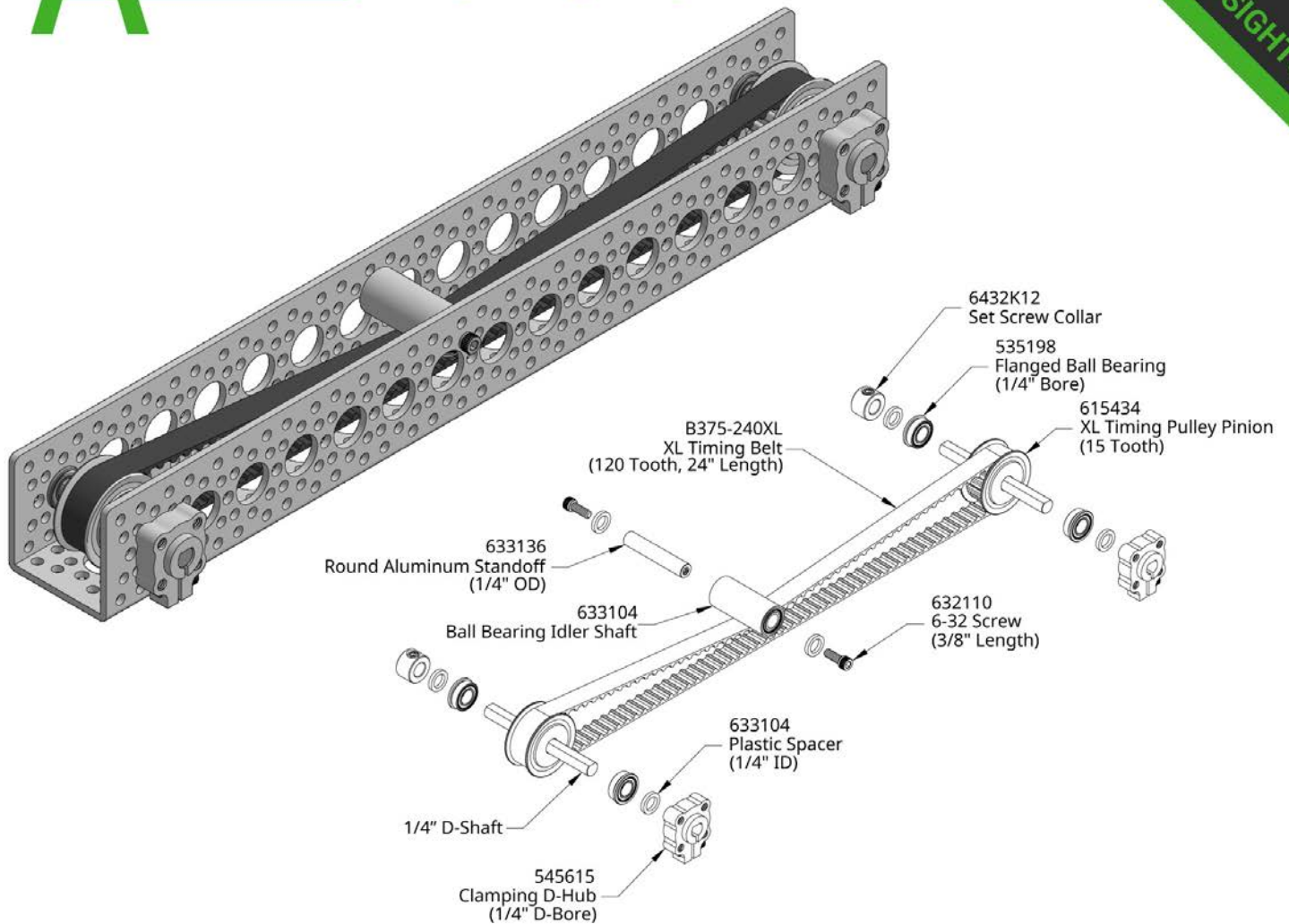
535178 Product Insight #4

Face Thru-Hole Clamping Hubs can be screw to the side tapped holes of the 535178 creating excellent radial support for a 1" aluminum tube that is installed through both of the pillow blocks. This gives the option of radial motion in a structure that is built with 1" aluminum tube.



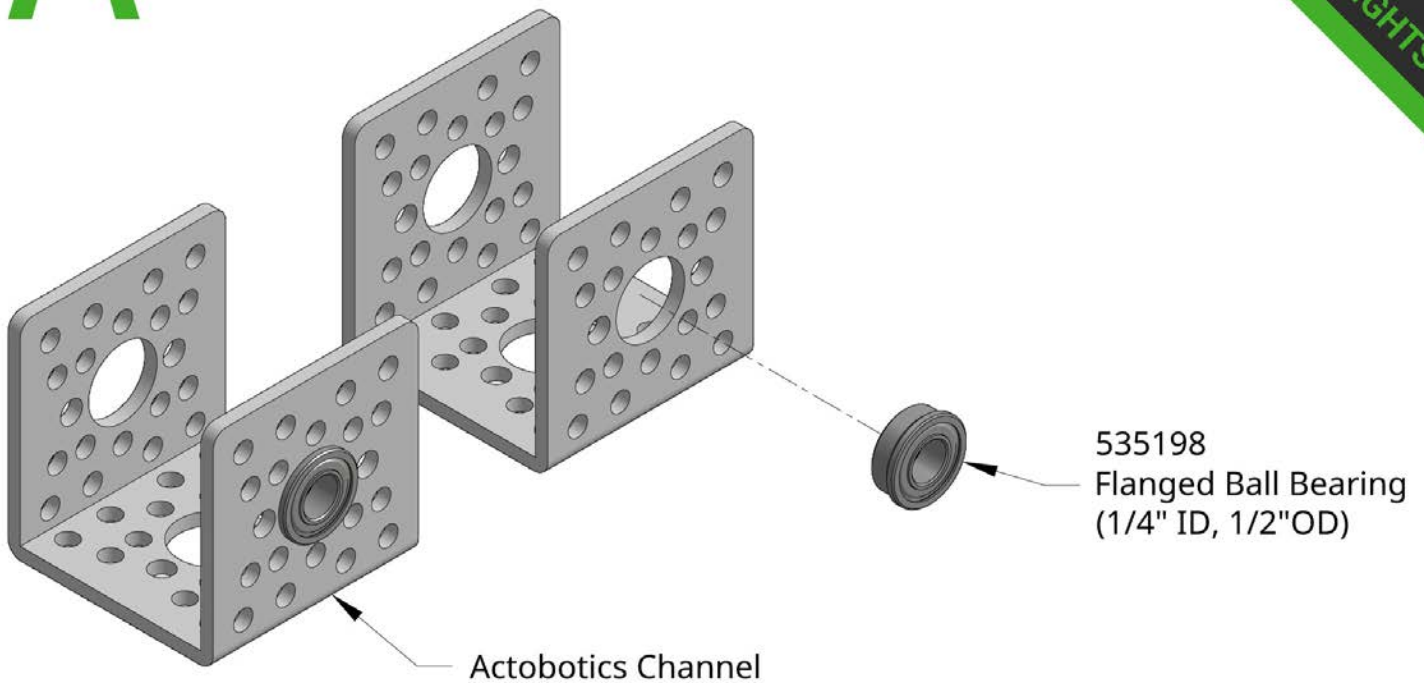
535178 Product Insight #5

When rotational motion is needed in a structure built of Actobotics X-Rail, a 535178 can be attached to a 585072 and slid down the slots of the X-Rail and then the screws can be tightened to lock down the pillow block's location.



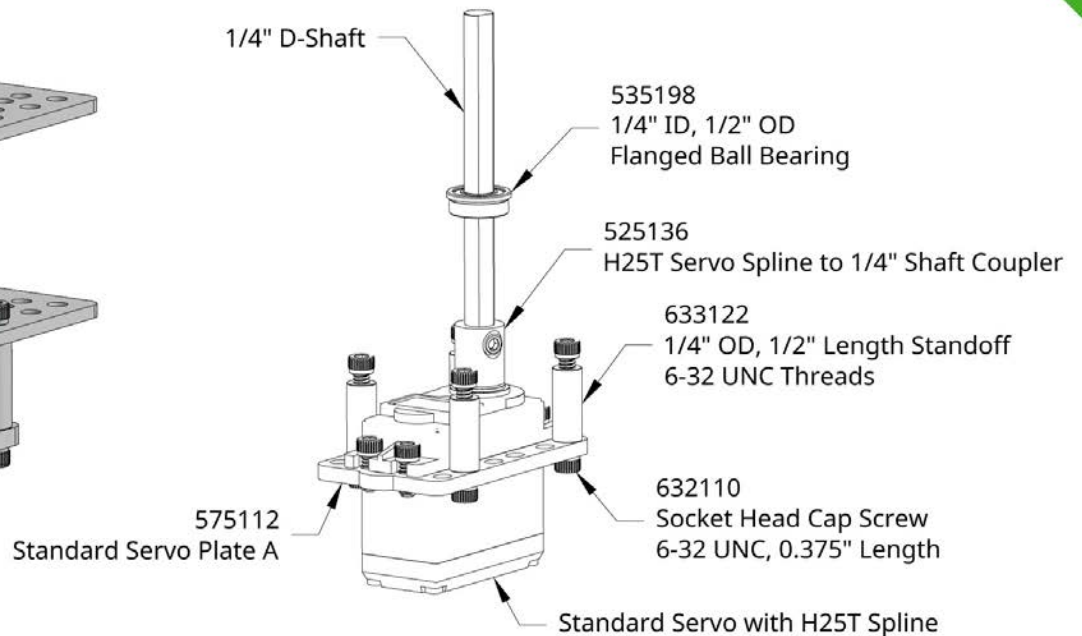
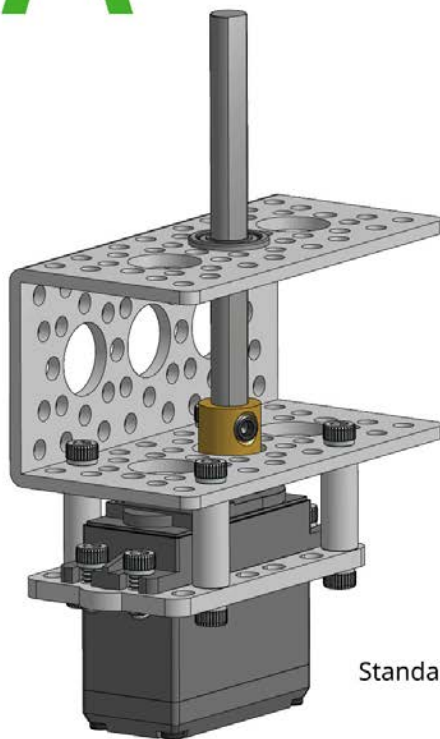
535194 Product Insight #1

When a belt system needs tension applied to keep the belt at a proper tension then a Ball Bearing Idler Shaft can be used. It has ball bearings pressed into both ends allowing a 1/4" standoff to act as a shaft for the Idler to spin on. When using inside of Actobotics Channel, different tensions can be achieved by using holes that are closer or further from the belt.



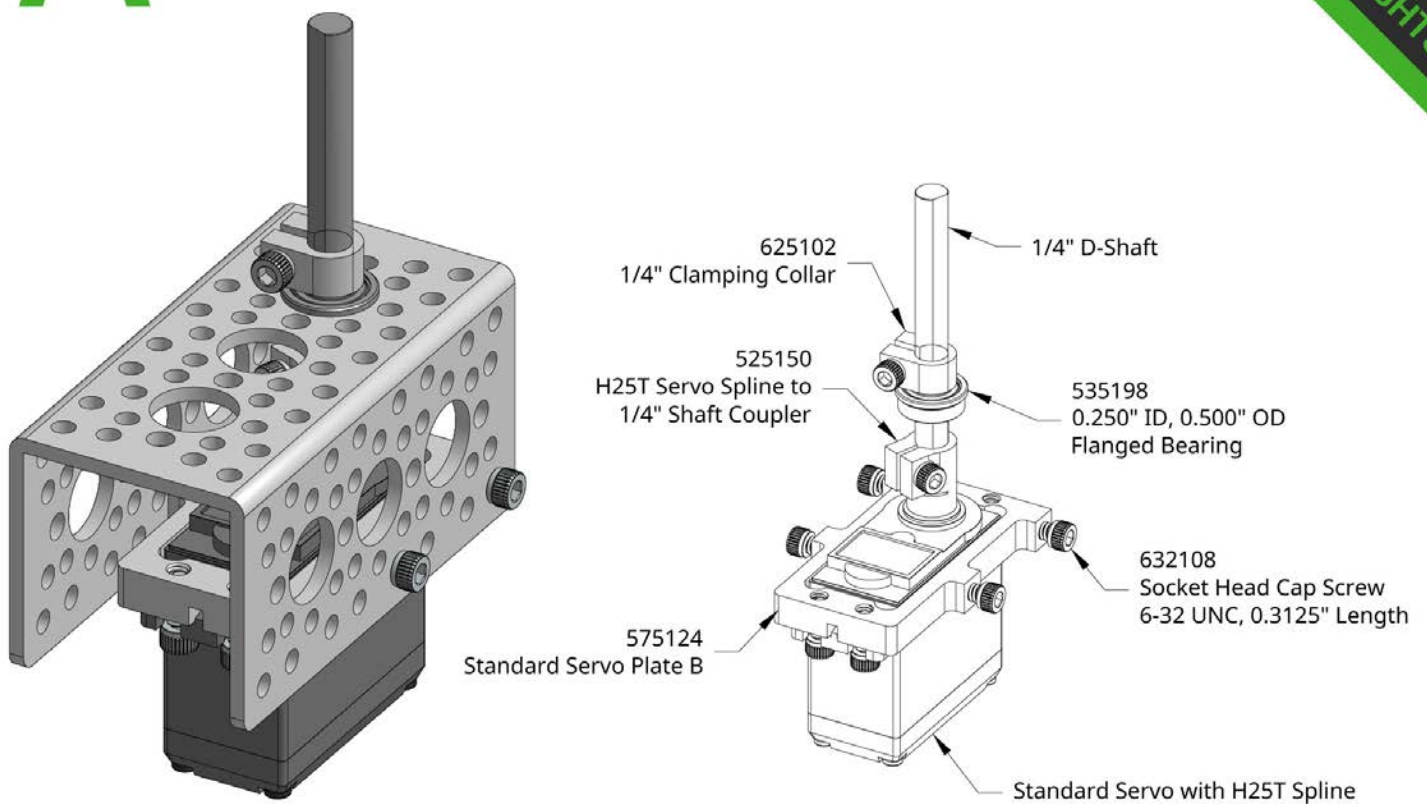
535198 Product Insight #1

The 535198 fits perfectly into the 0.500" holes in Actobotics Channel. When a bearing is installed in both walls of the channel it provides excellent radial support for any 1/4" shaft or 1/4" standoff that is ran through both bearings.



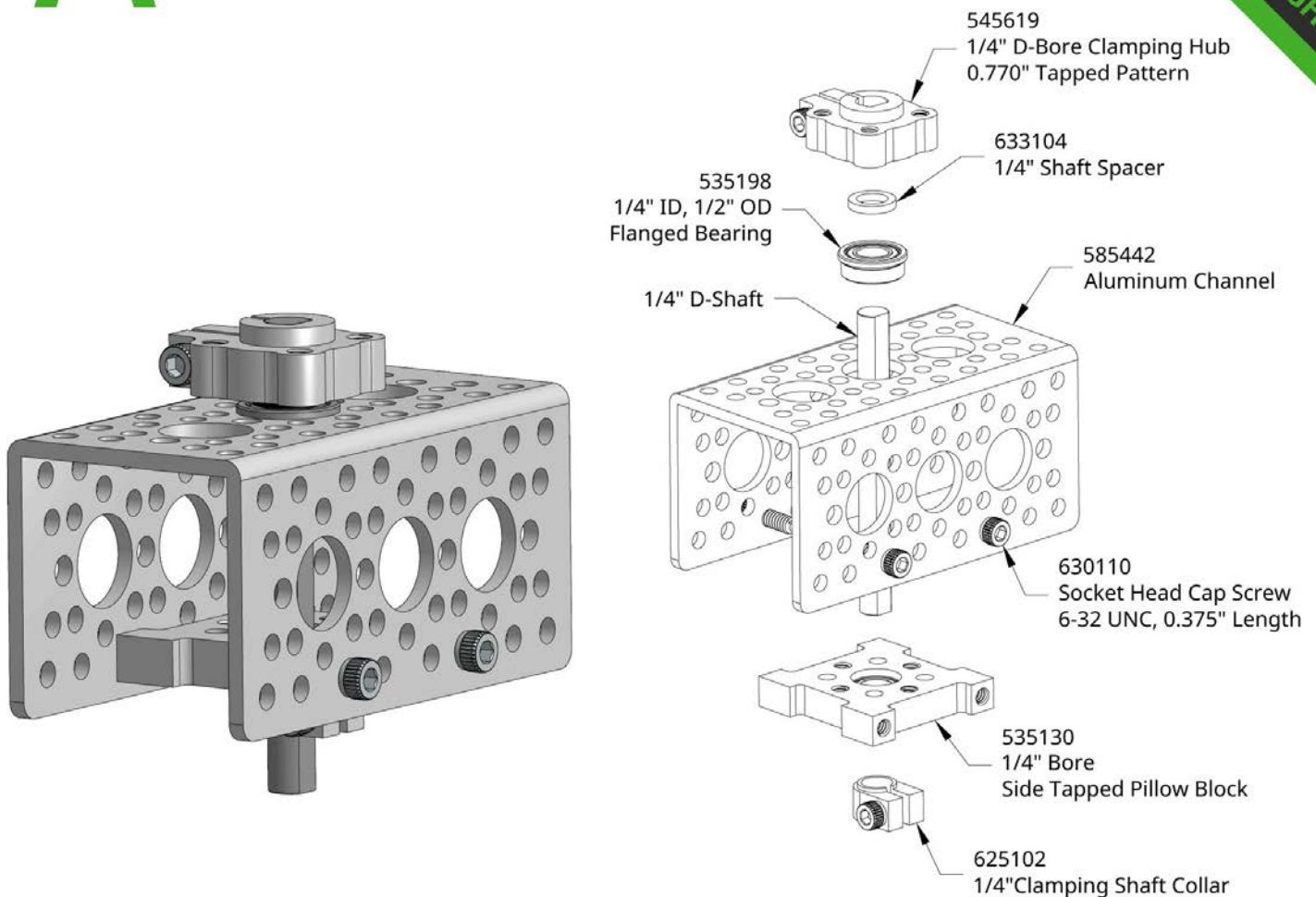
535198 Product Insight #2

A servo can be mounted to the sidewall of Actobotics Channel with standoffs and directly drive a 1/4" shaft that is supported radially by the flanged ball bearing that is installed in the Actobotics channel. This allows for driving heavy loads with a servo.



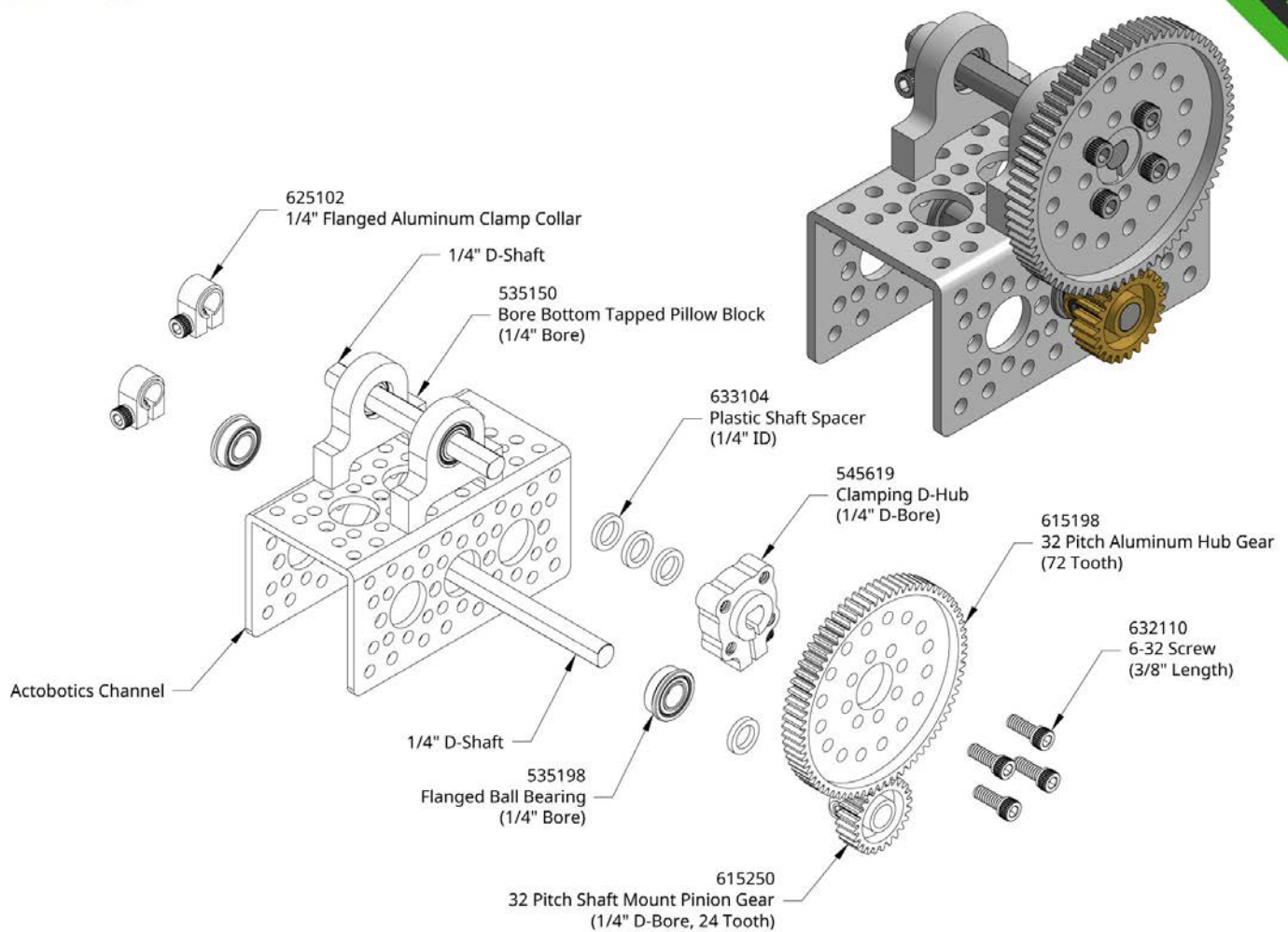
535198 Product Insight #3

A servo can be mounted on the open side of Actobotics Channel and directly drive a 1/4" shaft with the 525150. This allows the shaft to be radially supported with a flanged bearing that is installed into the 1/2" hole in the channel.



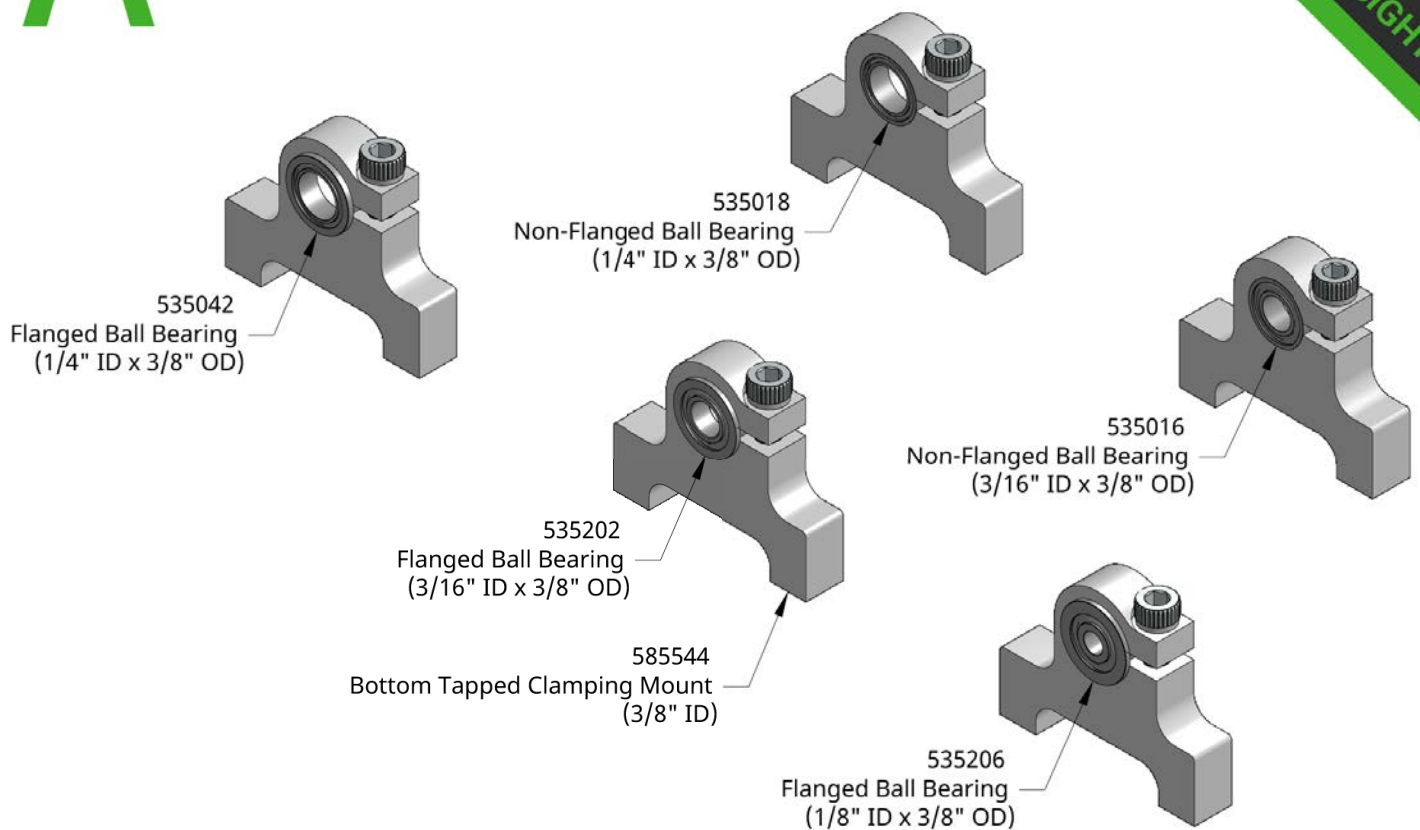
535198 Product Insight #4

When a 1/4" shaft needs to be ran perpendicular to Actobotics Channel, the 535130 side tapped pillow block can be installed between the two parallel legs of the channel and a 535198 can be dropped into a 0.500" hole in the Actobotics Channel wall. When a 1/4" shaft is ran through both bearings it is fully radially supported.



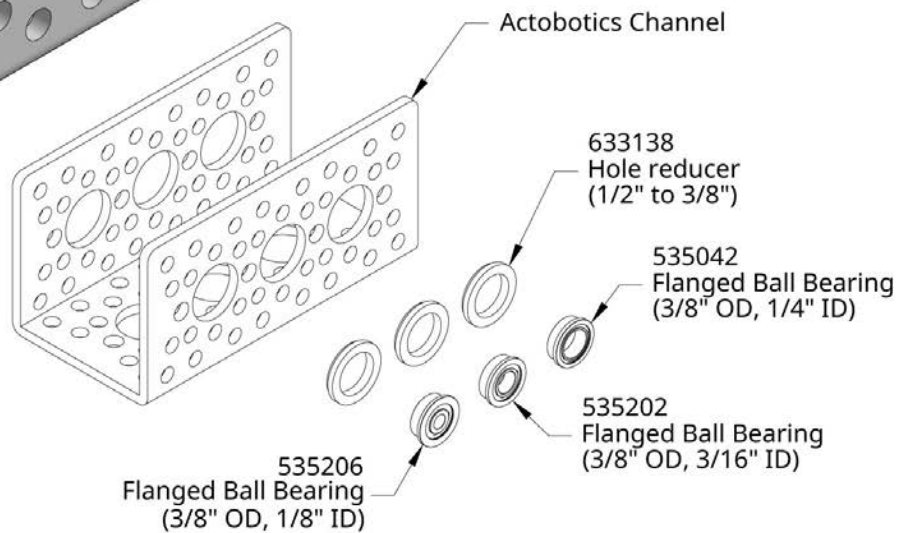
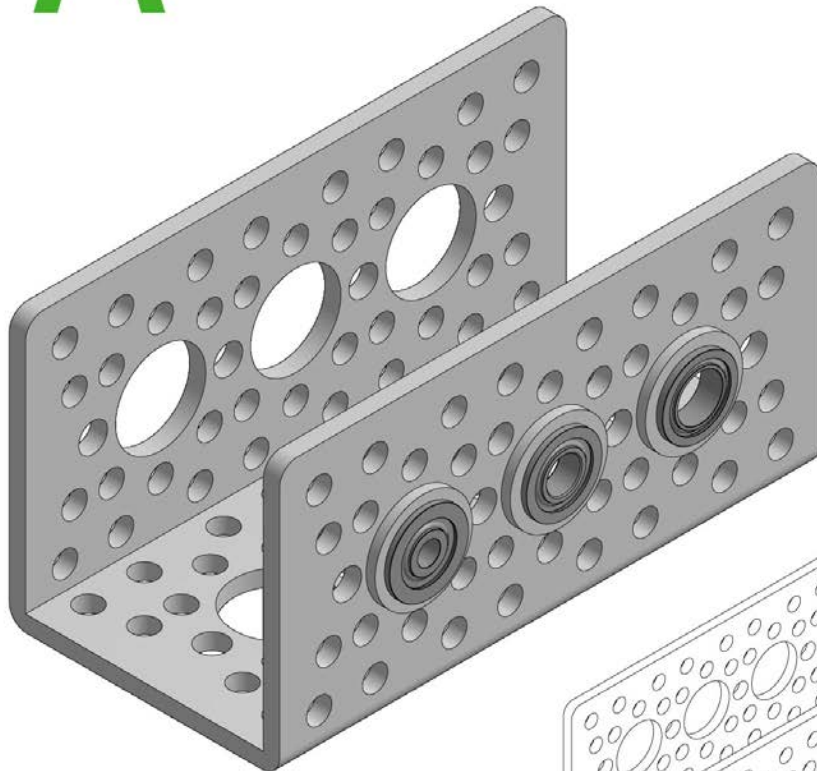
535198 Product Insight #5

Flanged ball bearings inserted into both walls of Actobotics Channel can be used in-line with bottom tapped pillow blocks. The two shafts are 1.5" apart which allows a 3 to 1 gear ratio to be created.



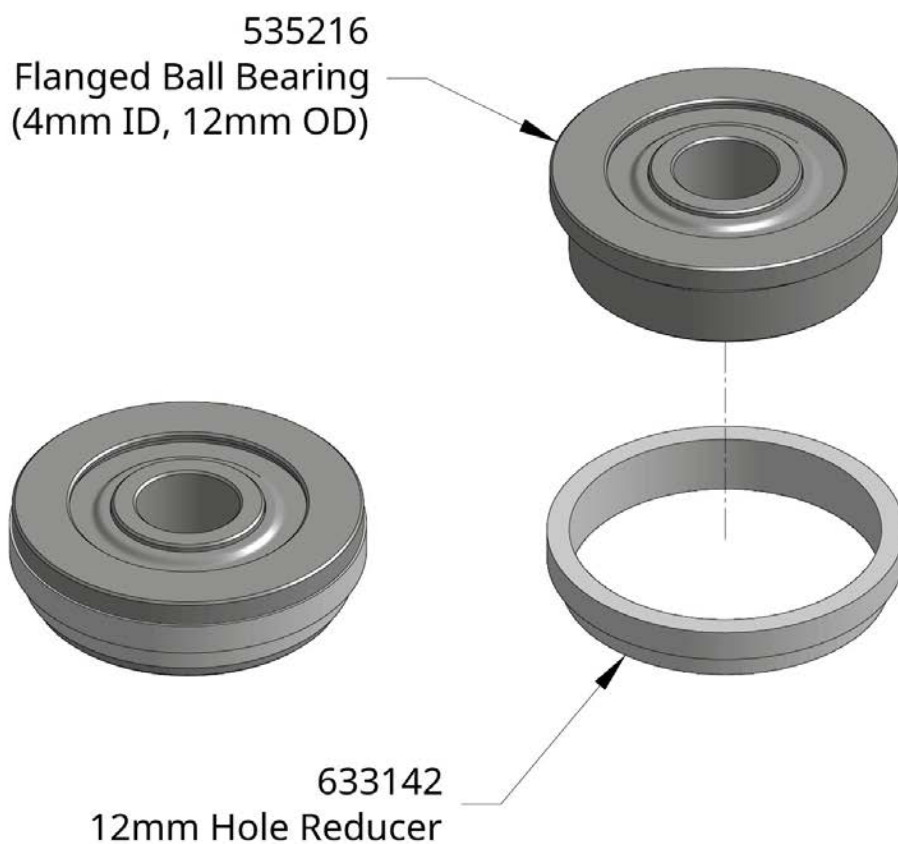
535202 Product Insight #1

A pillow block can be created by simply clamping on to any bearing with a 3/8" outside diameter.



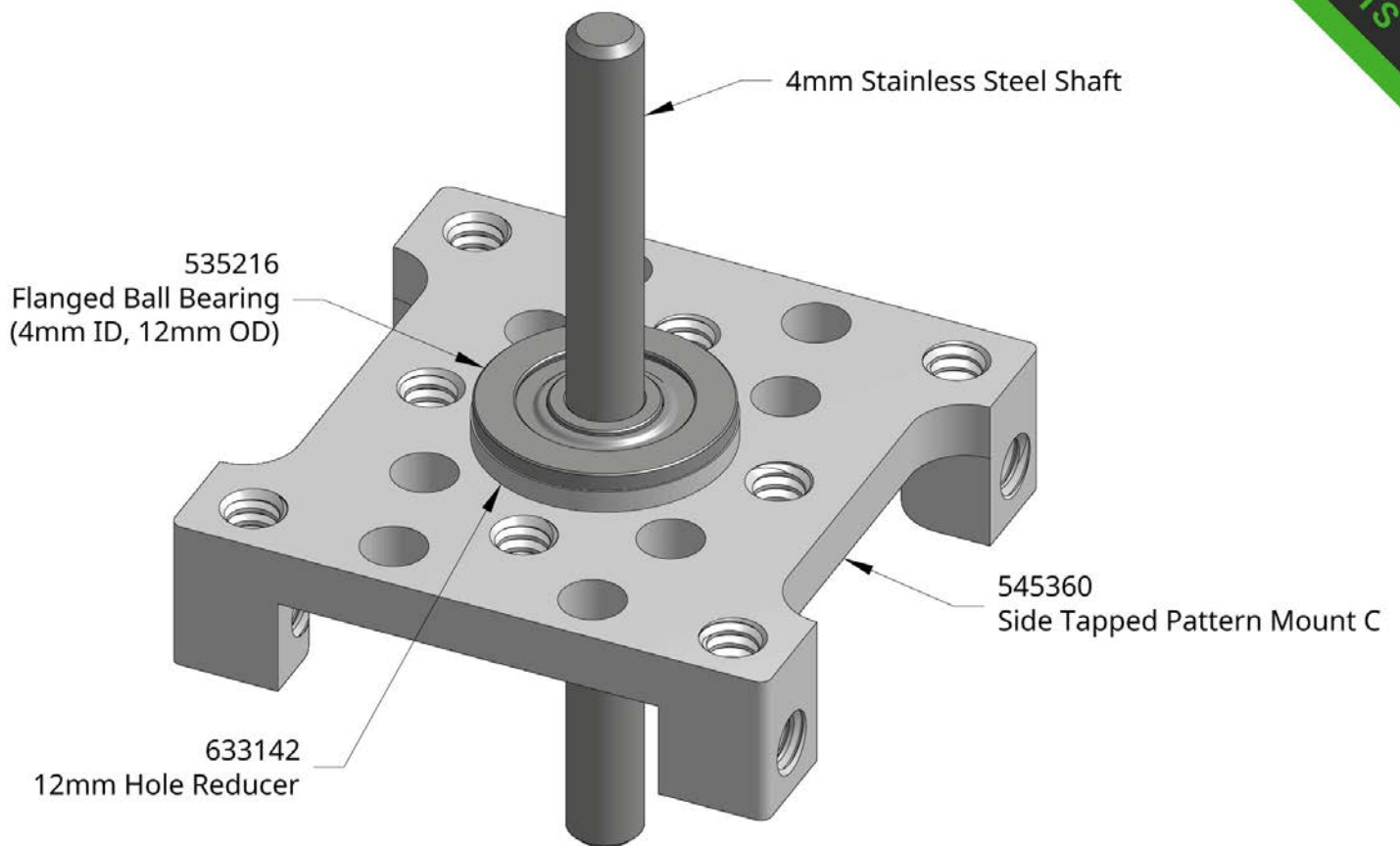
535202 Product Insight #2

With the use of a 1/2" to 3/8" hole reducer, any bearing with a 3/8" OD can be used in Actobotics Channel.



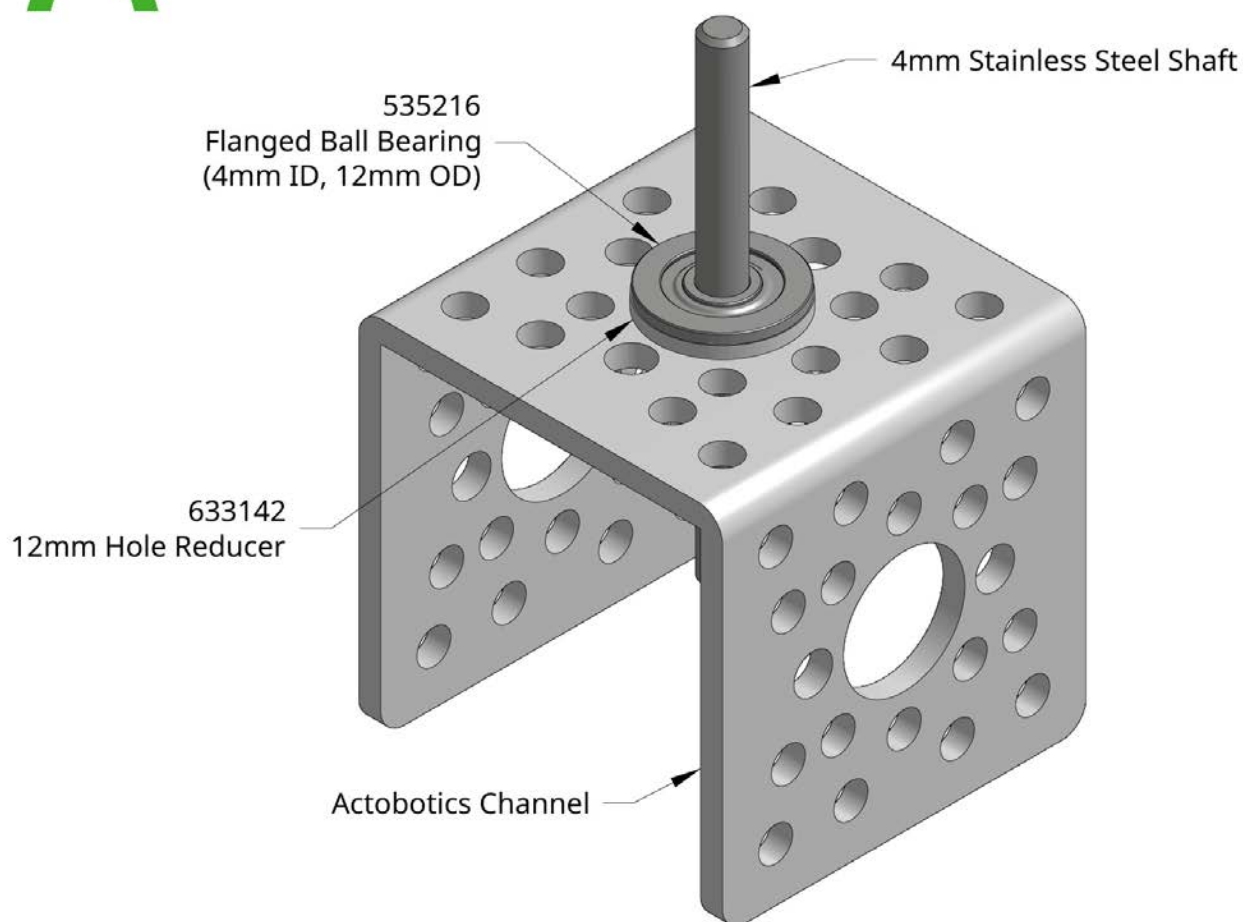
535216 Product Insight #1

A 1/2" to 12mm hole reducer allows these metric bearings to be used in any 0.500" hole that is found in nearly all Actobotics patterned parts.



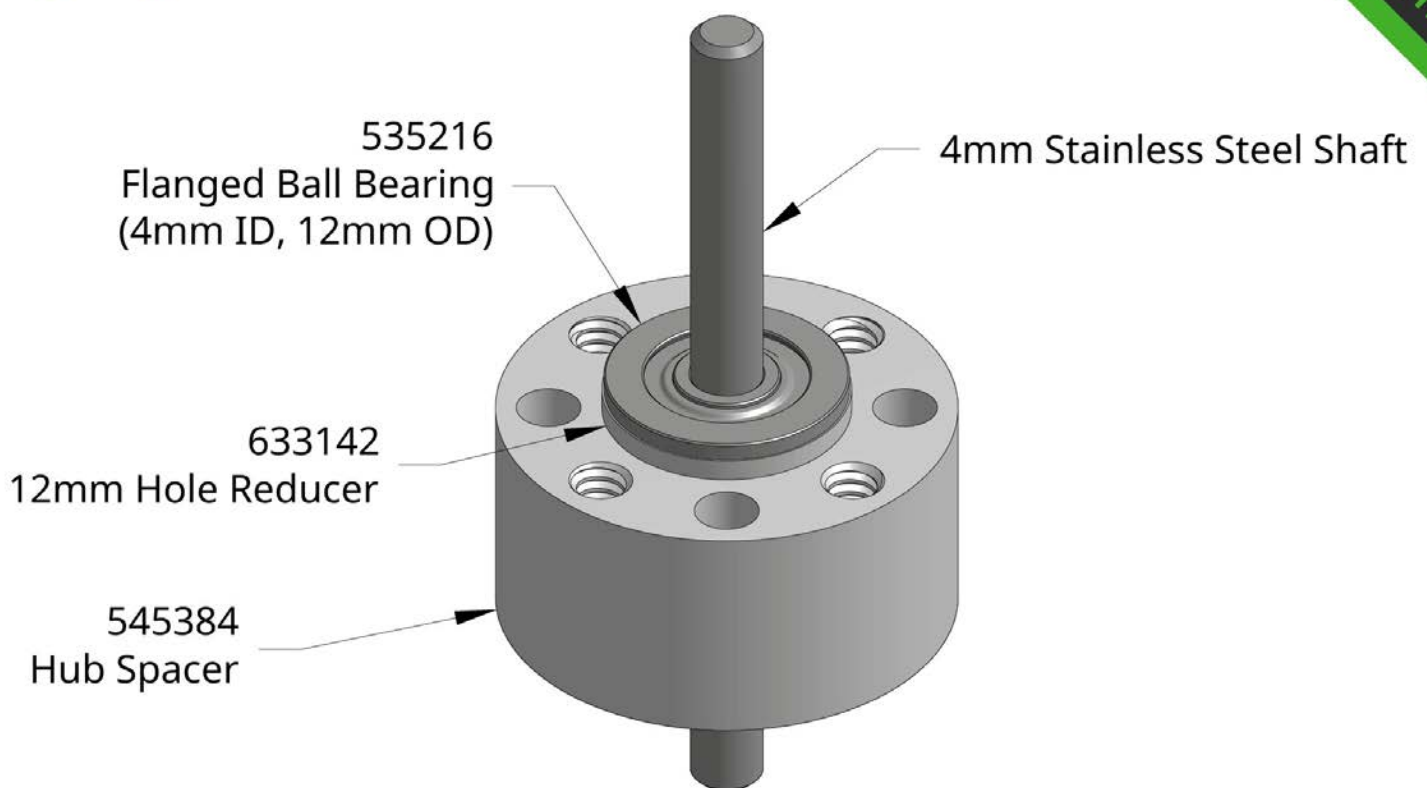
535216 Product Insight #2

A 4mm shaft can be supported in a Side Tapped Pattern Mount C.



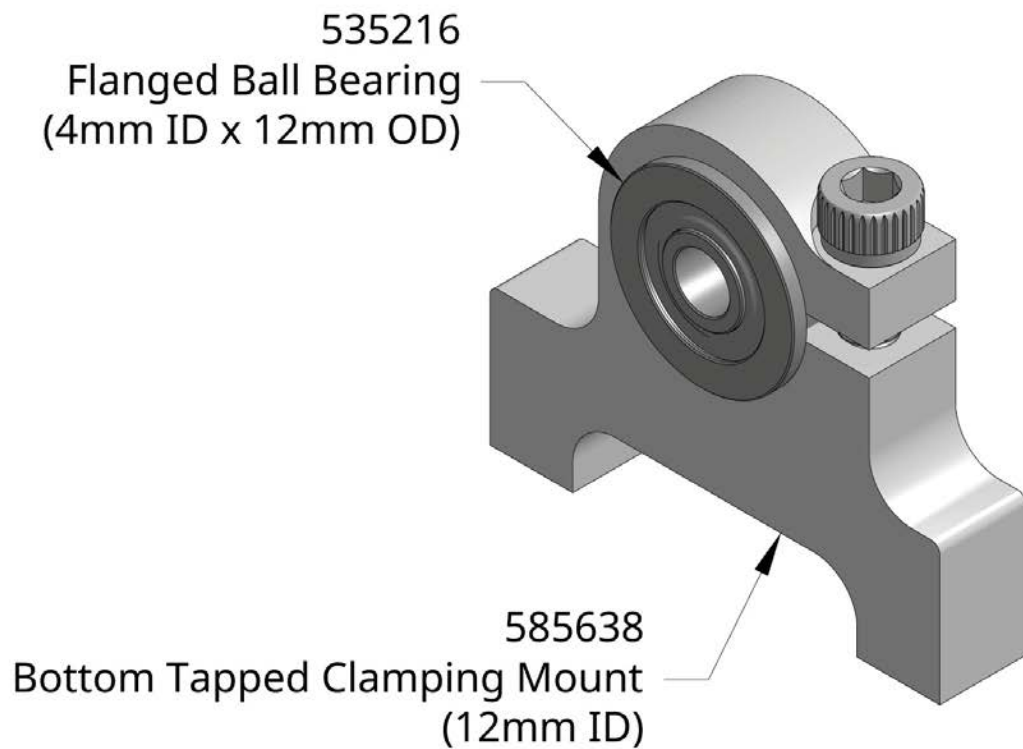
535216 Product Insight #3

A 4mm shaft can be supported in Actobotics Channel by dropping in a 1/2" to 12mm hole reducer into the 1/2" hole in the channel.



535216 Product Insight #4

A 4mm shaft can be supported in a Hub Spacer by dropping a 1/2" to 12mm hole reducer into the 1/2" hole of the Hub spacer. If a bearing is placed into both sides of the Hub Spacer the shaft would be fully radially supported.



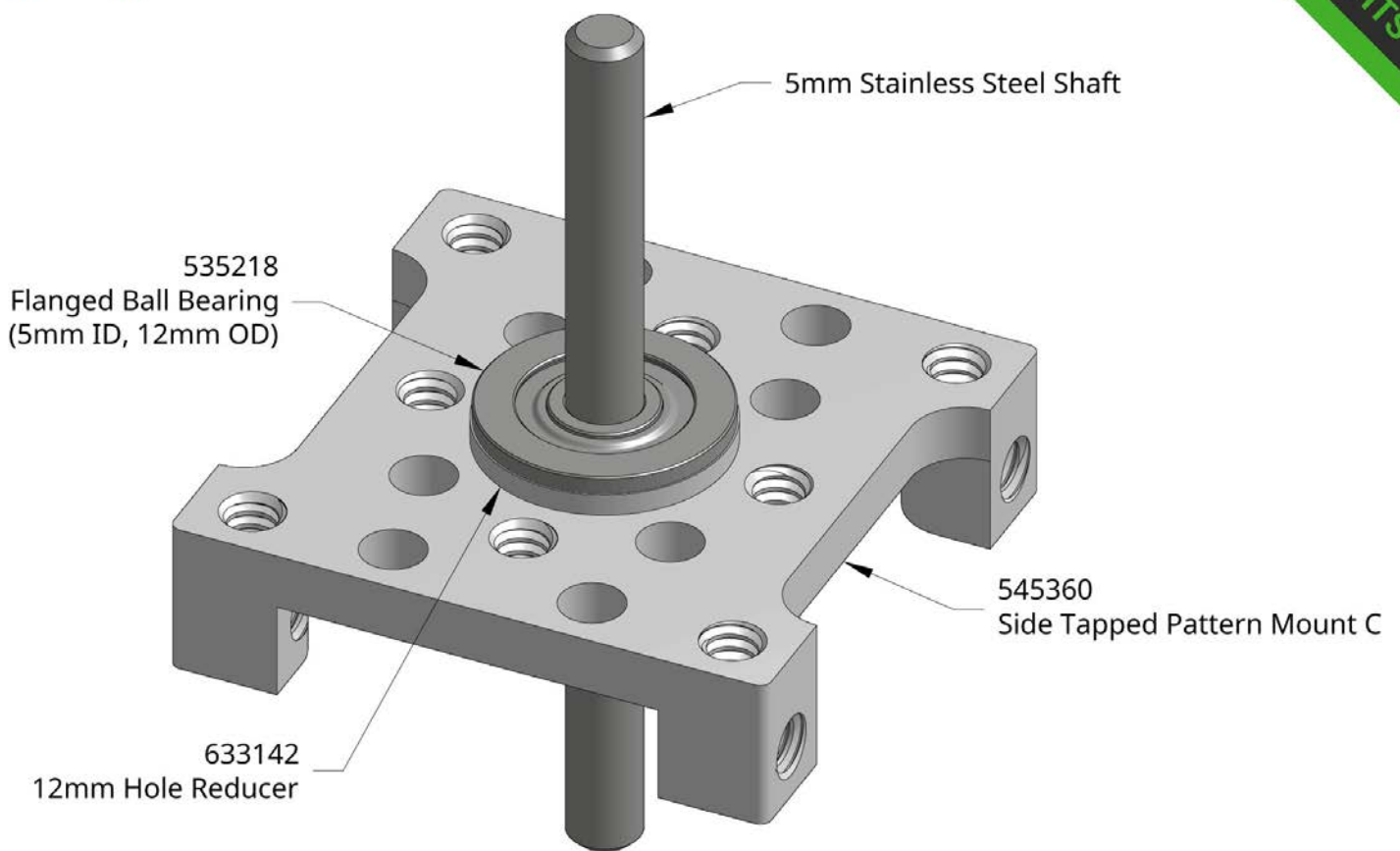
535216 Product Insight #5

A pillow block bearing can be created by simply clamping a 12mm Bottom Tapped Clamping Mount to a 12mm bearing.



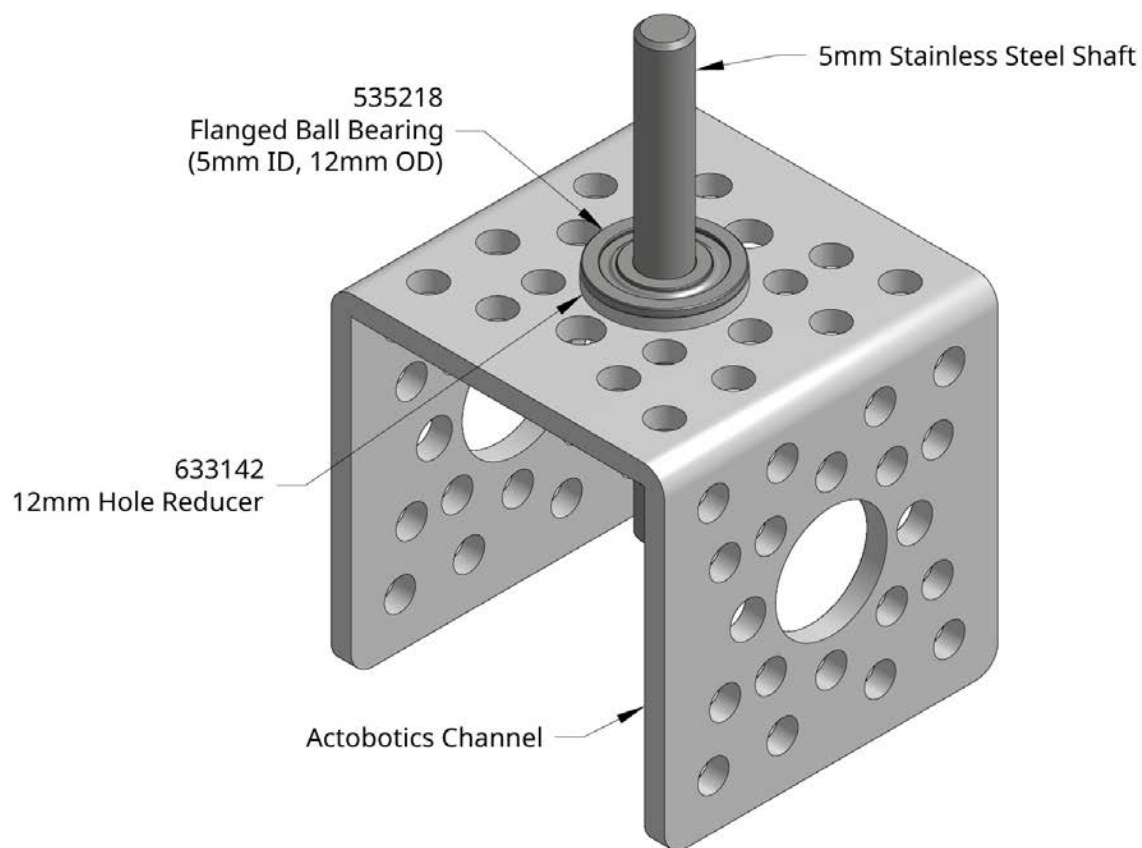
535218 Product Insight #1

A 1/2" to 12mm hole reducer allows these metric bearings to be used in any 0.500" hole that is found in nearly all Actobotics patterned parts.



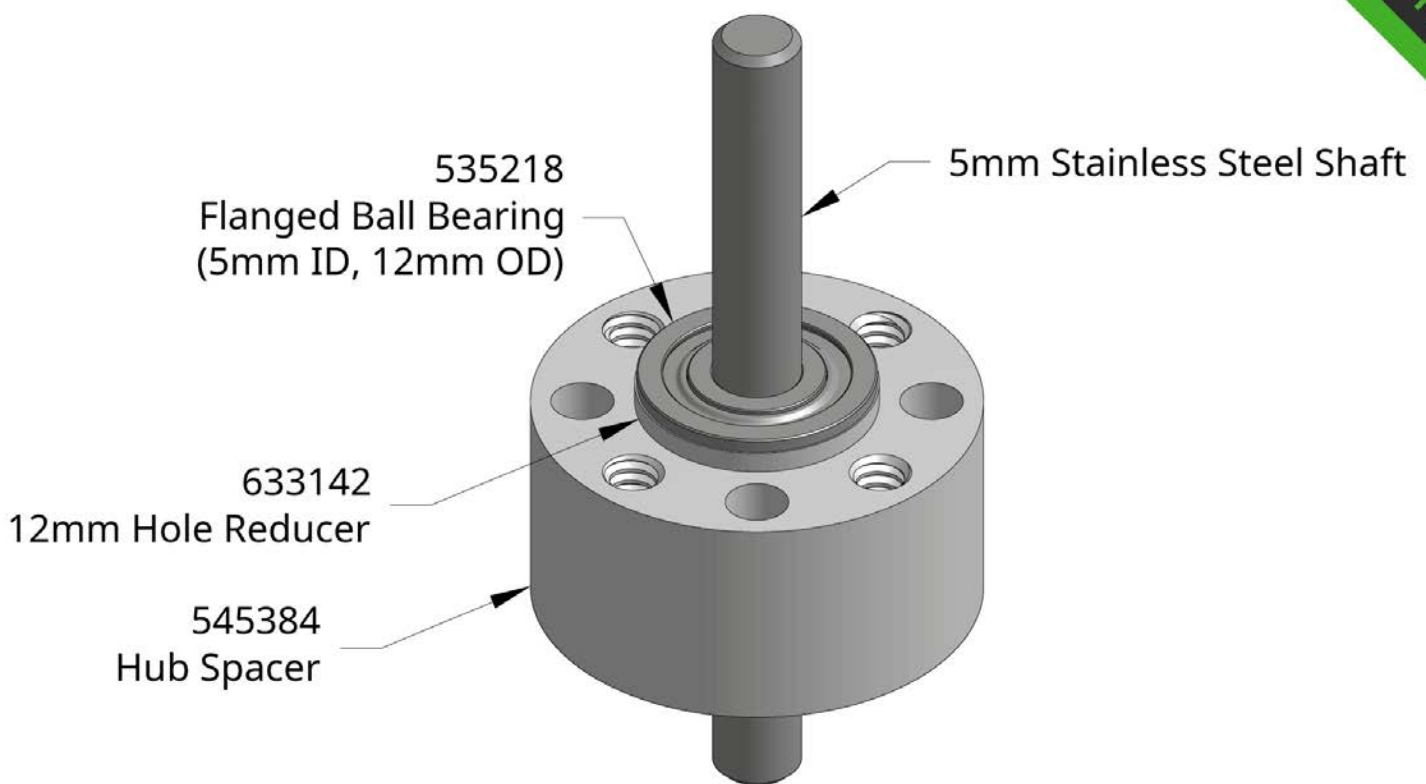
535218 Product Insight #2

A 5mm shaft can be radially supported in a Side Tapped Pattern Mount C.



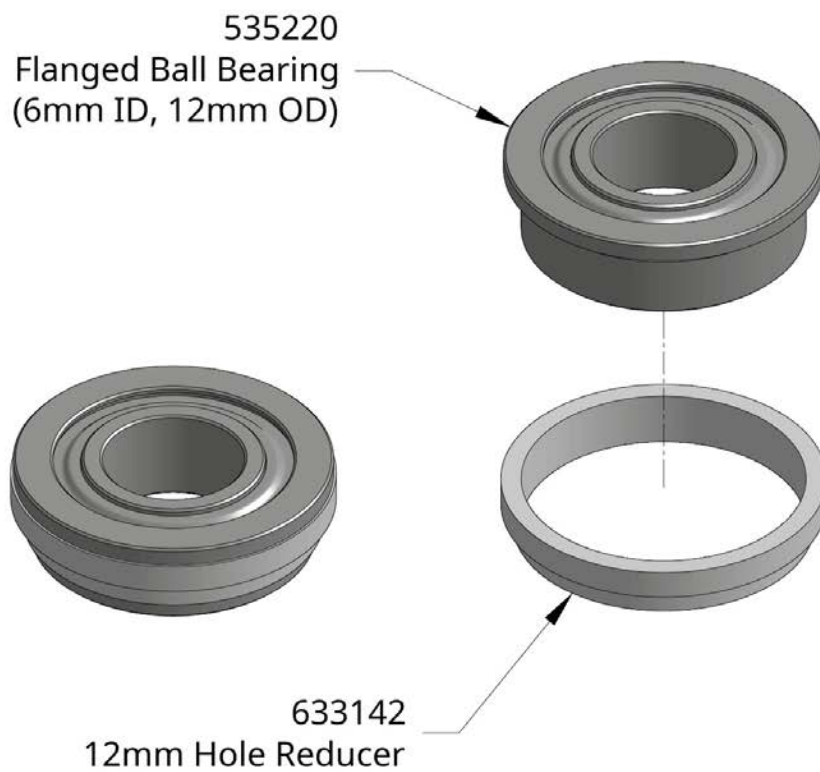
535218 Product Insight #3

A 5mm shaft can be radially supported in Actobotics Channel by dropping a 1/2" to 12mm hole reducer into the 1/2" hole in the channel.



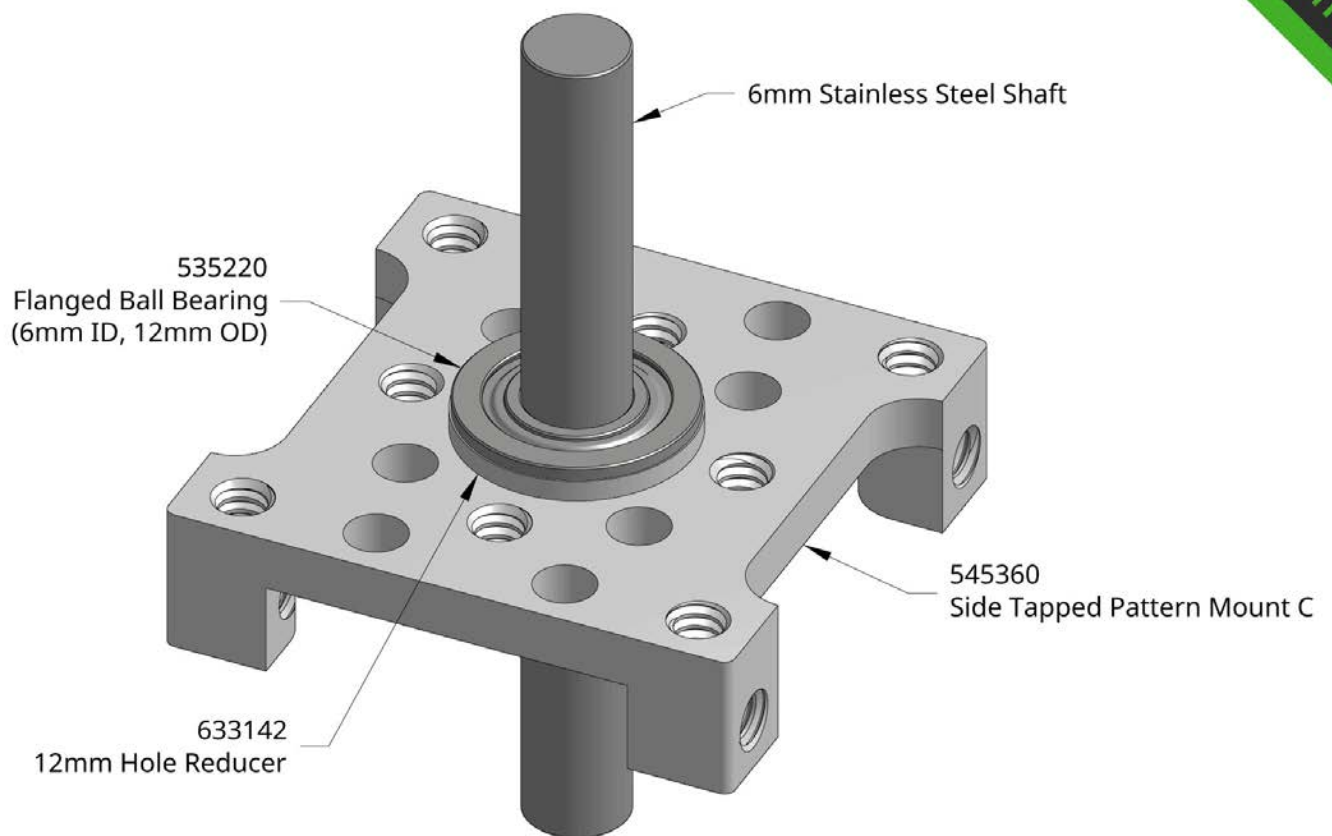
535218 Product Insight #4

A 5mm shaft can be supported in a Hub Spacer by dropping a 1/2" to 12mm hole reducer into the 1/2" hole of the Hub spacer. If a bearing is placed into both sides of the Hub Spacer the shaft would be fully radially supported.



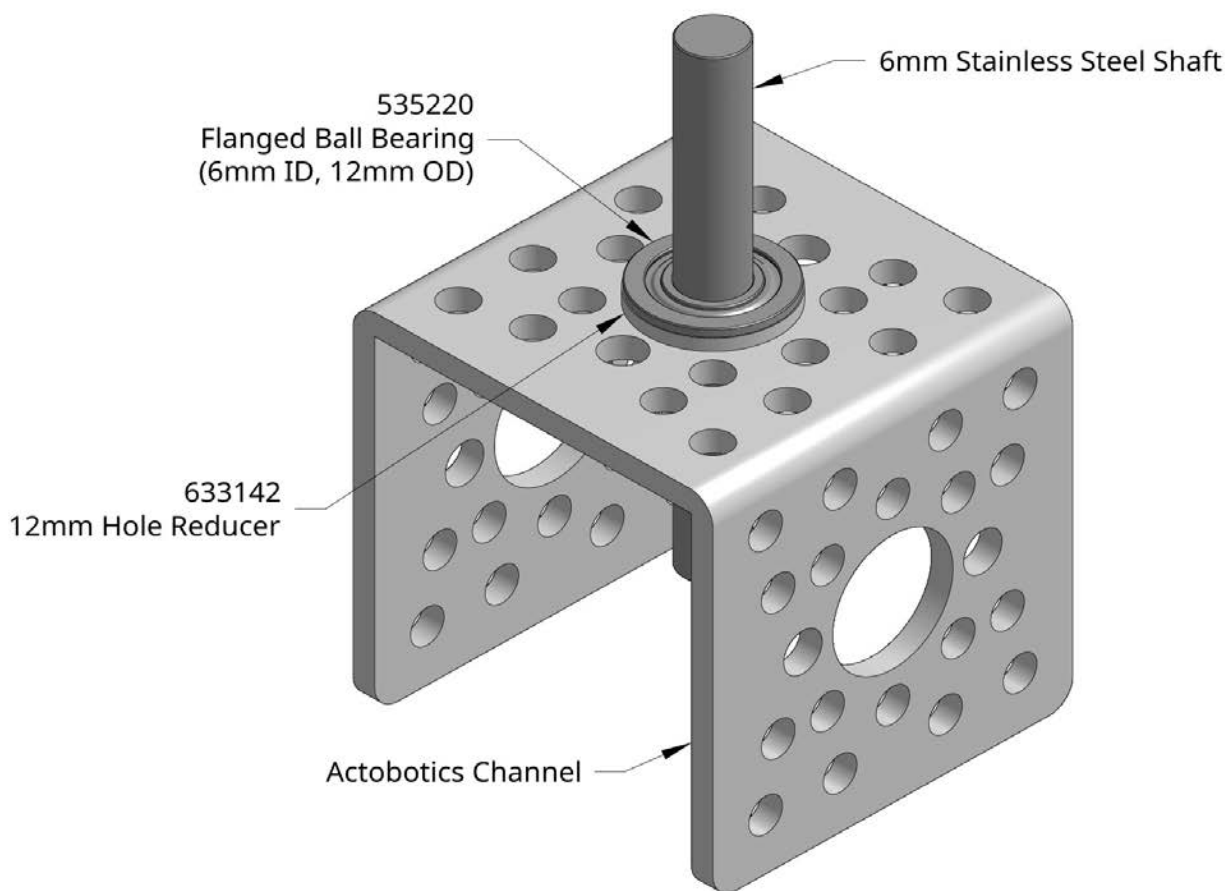
535220 Product Insight #1

A 1/2" to 12mm hole reducer allows these metric bearings to be used in any 0.500" hole that is found in nearly all Actobotics patterned parts.



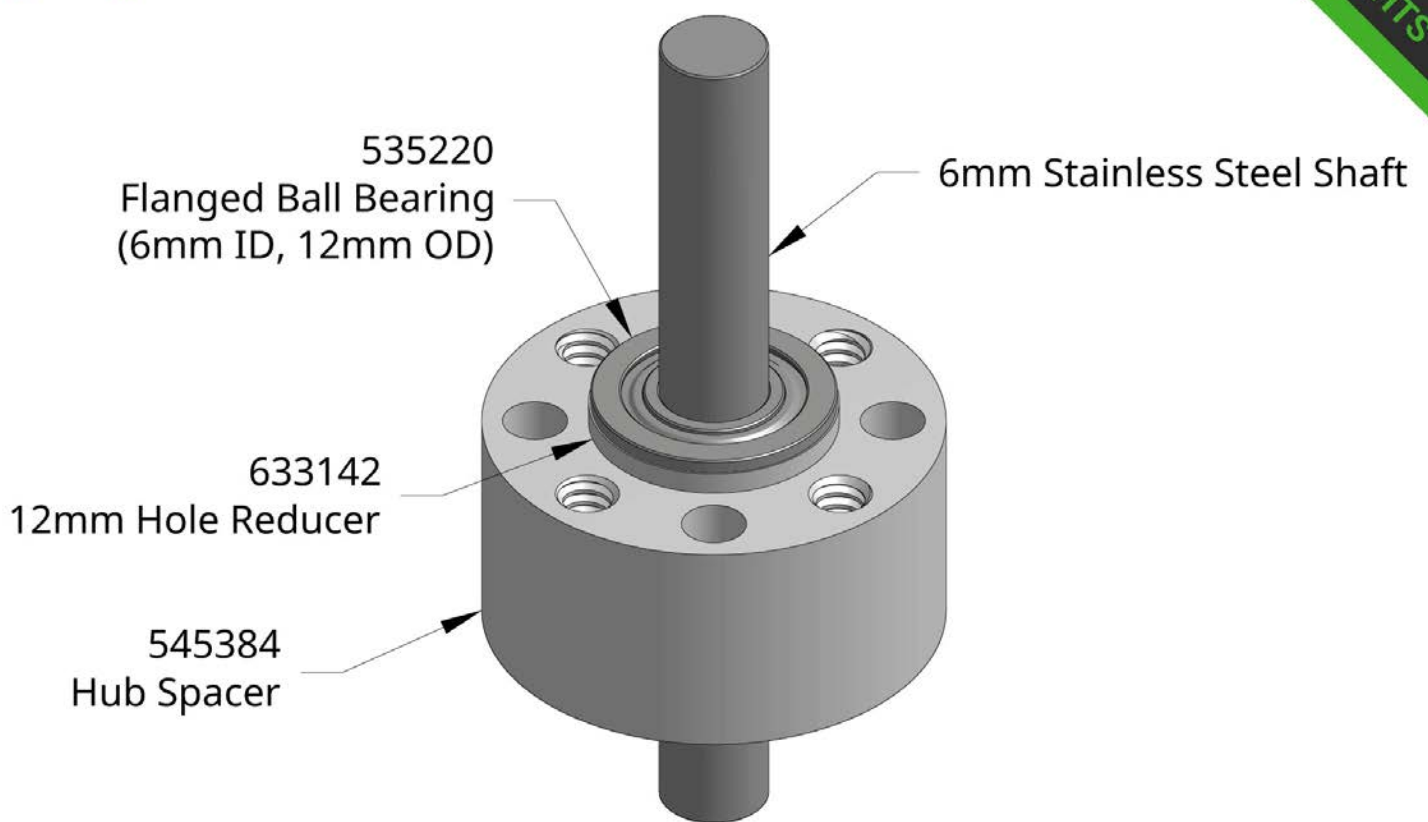
535220 Product Insight #2

A 6mm shaft can be supported in a Side Tapped Pattern Mount C.



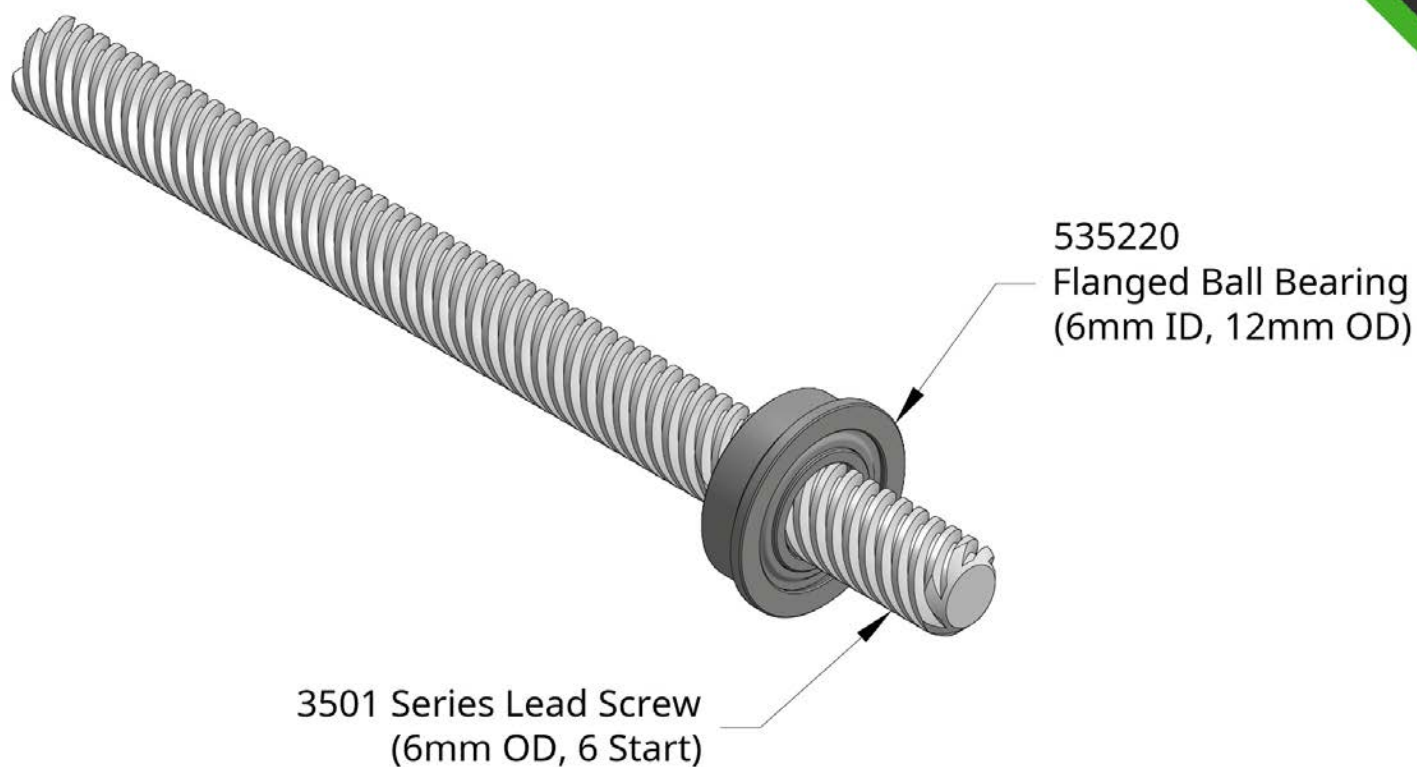
535220 Product Insight #3

A 6mm shaft can be supported in Actobotics Channel by dropping a 1/2" to 12mm hole reducer into the 1/2" hole in the channel.



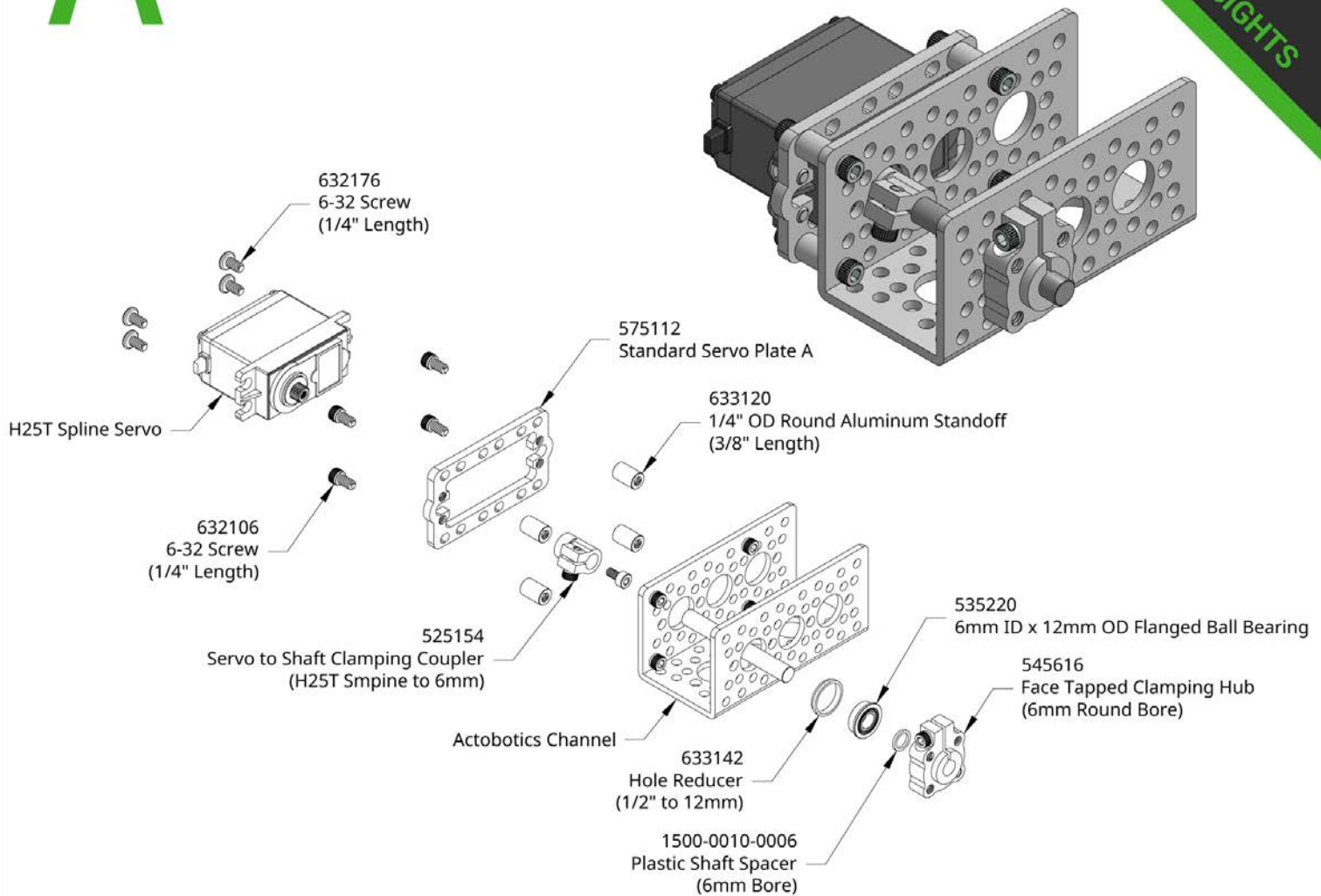
535220 Product Insight #4

A 6mm shaft can be supported in a Hub Spacer by dropping a 1/2" to 12mm hole reducer into the 1/2" hole of the Hub Spacer. If a bearing is placed into both sides of the Hub Spacer the shaft would be fully radially supported.



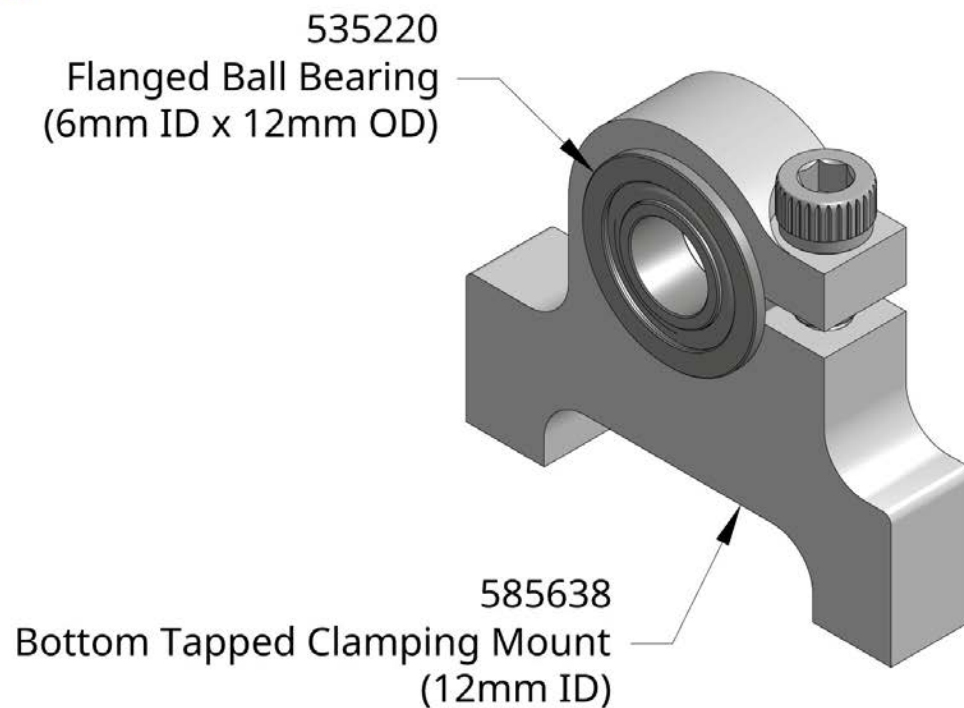
535220 Product Insight #5

A 6mm Lead Screw can be radially supported by the 6mm Flanged Ball Bearing.



535220 Product Insight #6

A servo can be mounted to the sidewall of Actobotics Channel and directly drive a 6mm shaft. By supporting the shaft with a flanged ball bearing on the opposite wall of the channel, large loads can be supported. A clamping hub can be attached to the shaft which gives the ability to control any Actobotics part with the 0.770" pattern with a servo.



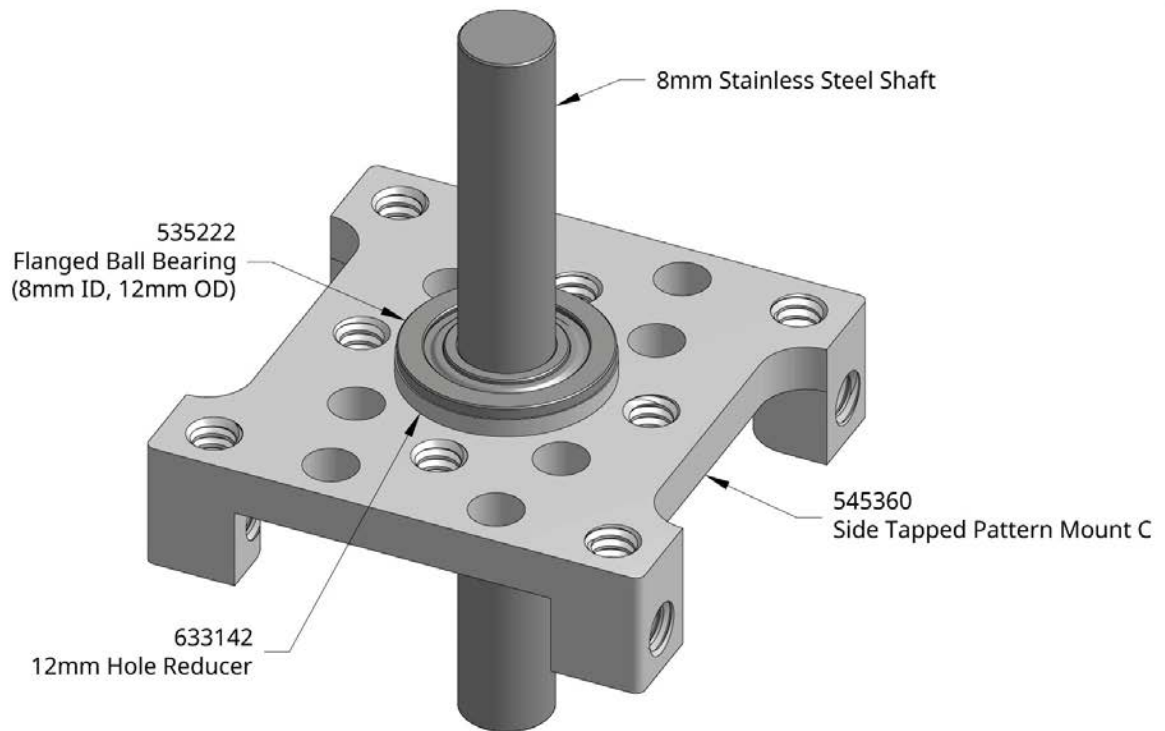
535220 Product Insight #7

A pillow block bearing can be created simply by clamping a 12mm Bottom Tapped Clamping Mount to the bearing.



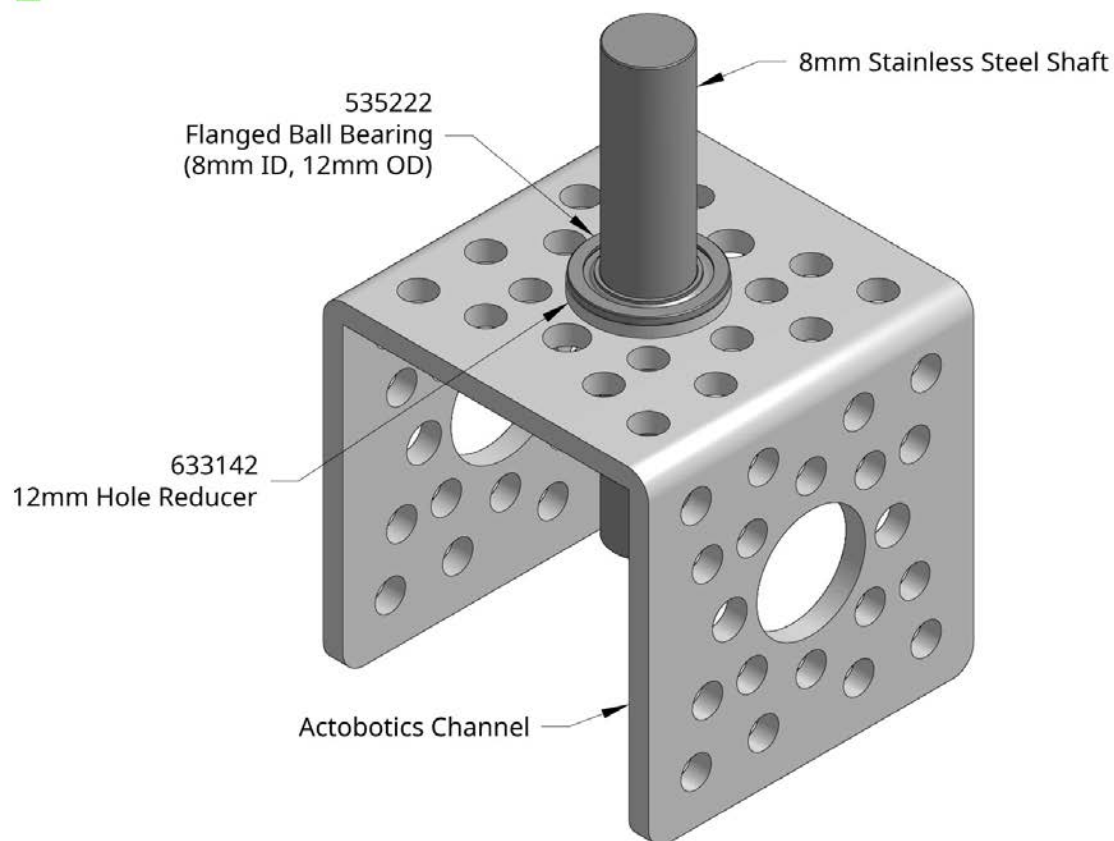
535222 Product Insight #1

A 1/2" to 12mm hole reducer allows these metric bearings to be used in any 0.500" hole that is found in nearly all Actobotics patterned parts.



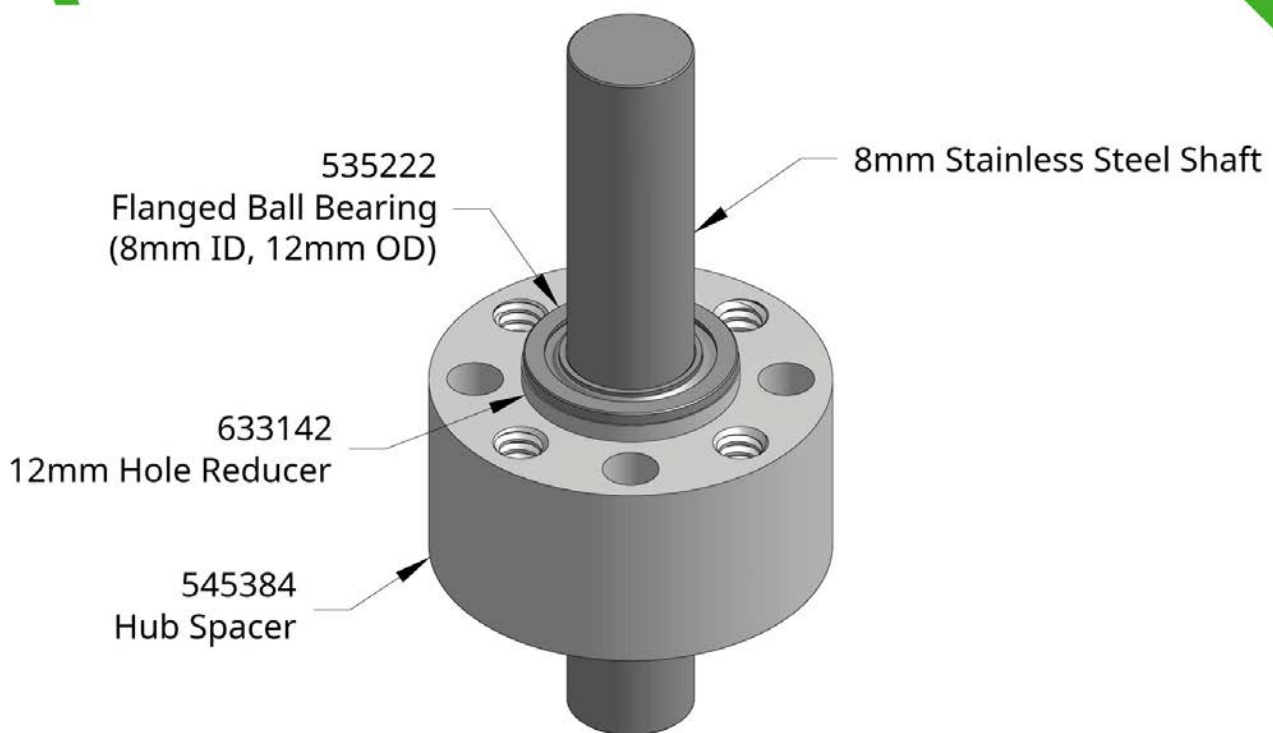
535222 Product Insight #2

An 8mm shaft can be radially supported in a Side Tapped Pattern Mount C.



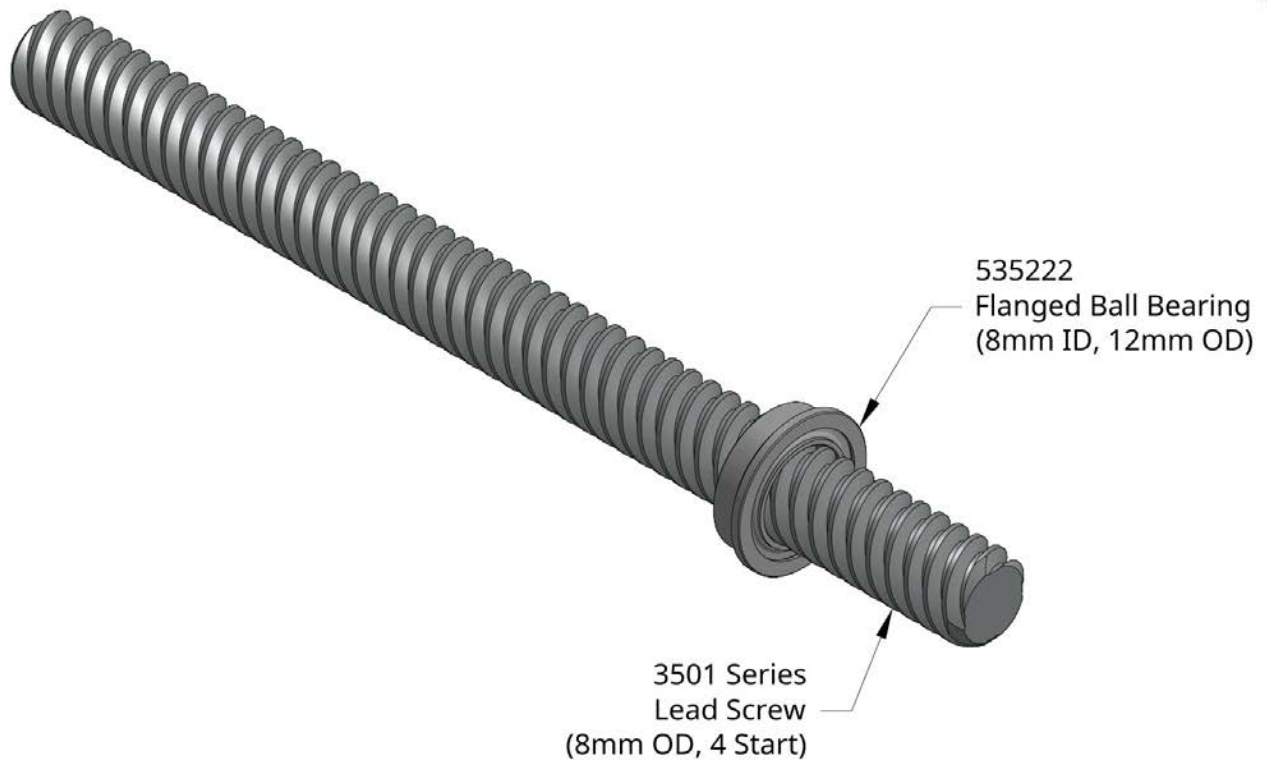
535222 Product Insight #3

An 8mm shaft can be radially supported in Actobotics Channel by dropping a 1/2" to 12mm hole reducer into the 1/2" hole in the channel.



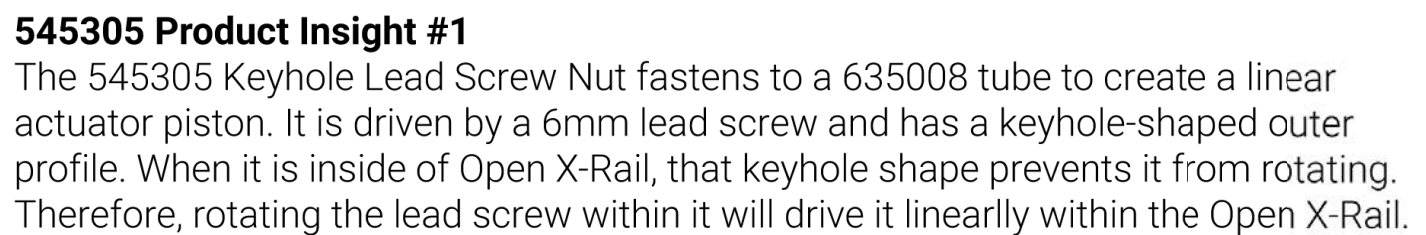
535222 Product Insight #4

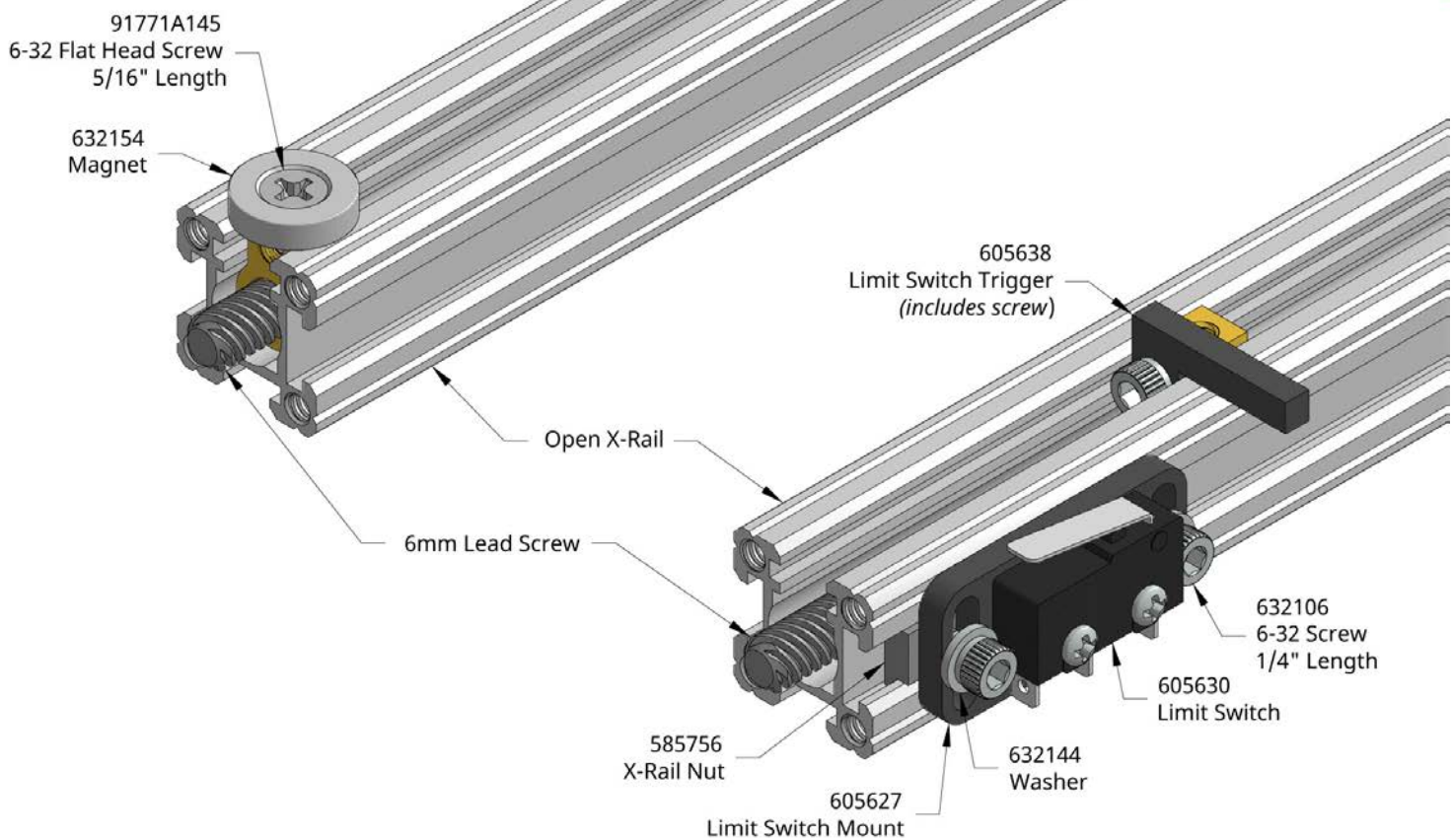
An 8mm shaft can be supported in a Hub Spacer by dropping a 1/2" to 12mm hole reducer into the 1/2" hole of the Hub Spacer. If a bearing is placed into both sides of the Hub Spacer the shaft would be fully radially supported.



535222 Product Insight #5

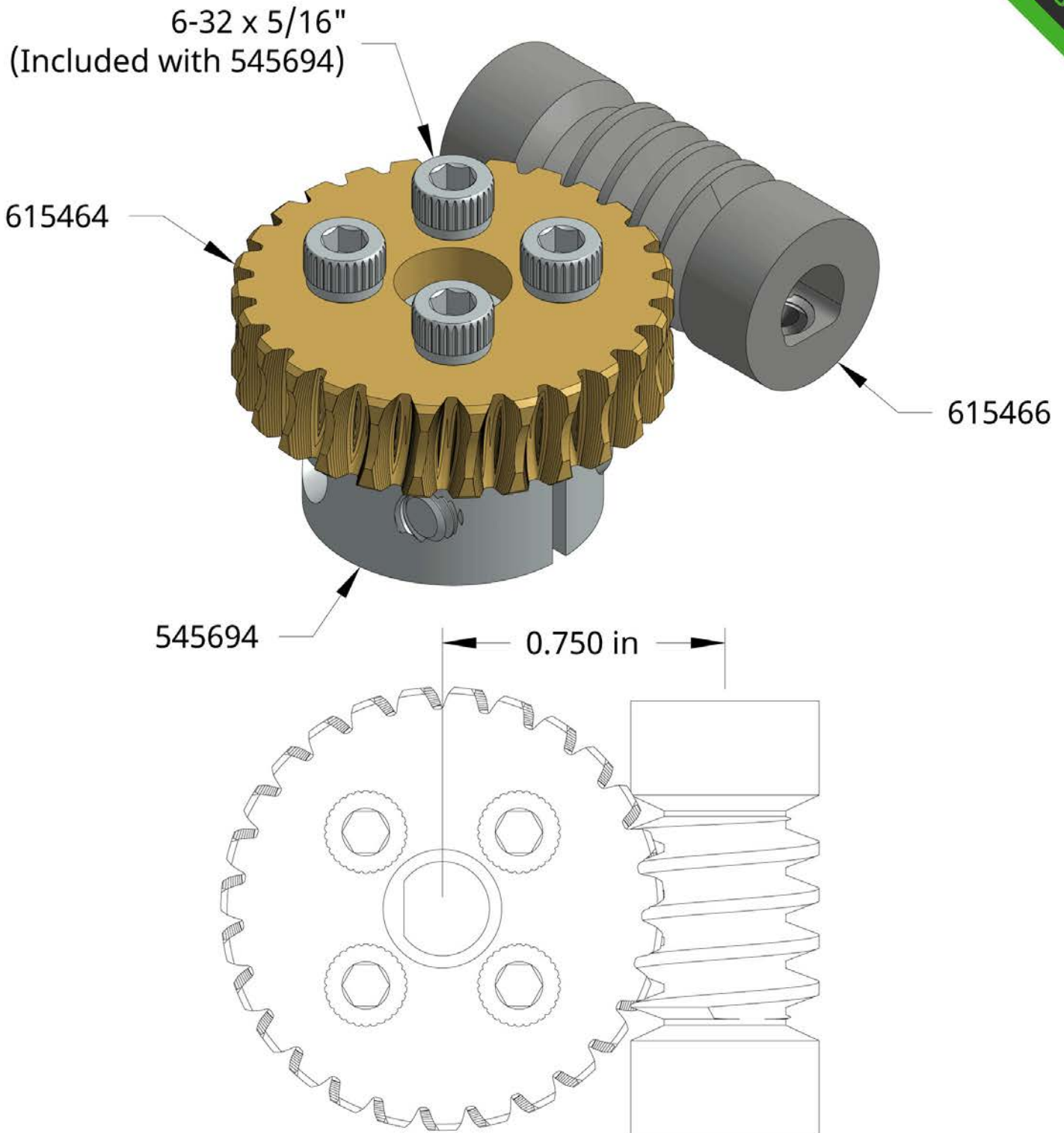
An 8mm Lead Screw can be radially supported by the 8mm Flanged Ball Bearing.





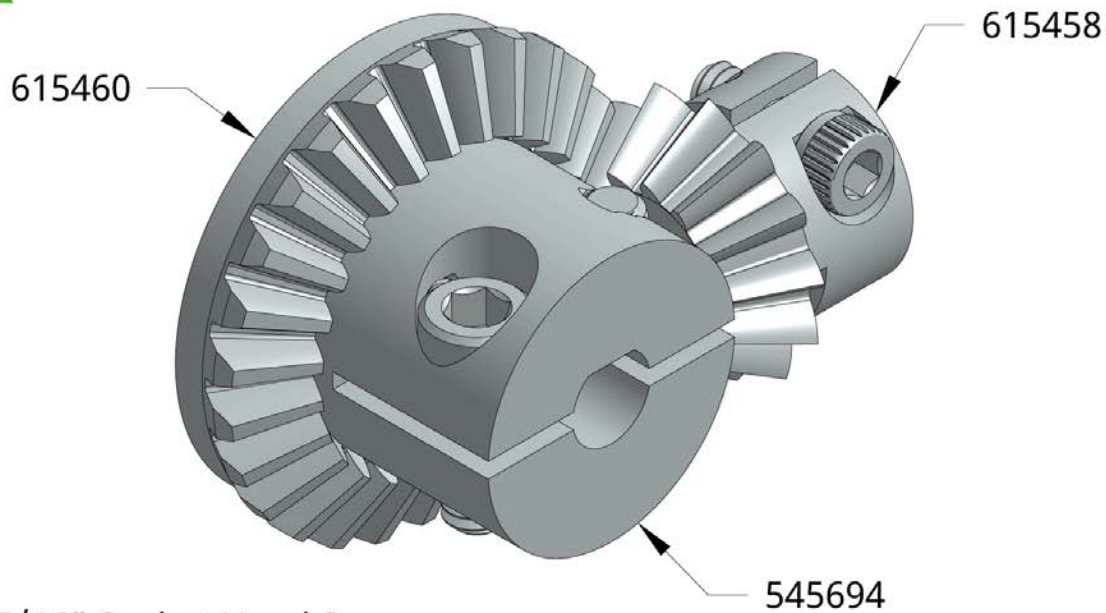
545305 Product Insight #2

The 545305 lead screw nut allows you to mount something perpendicular or parallel to the lead screw. The intended use-case is to make it easy to trigger a physical or magnetic limit switch as it is not designed for moving a heavy load.

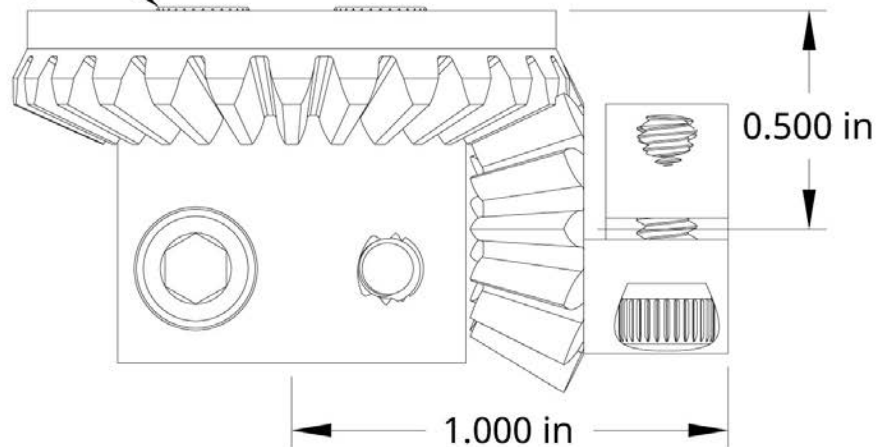


545694 Product Insight #1

The pattern on the 545694 hub is compatible with the 615464 Worm Gear.

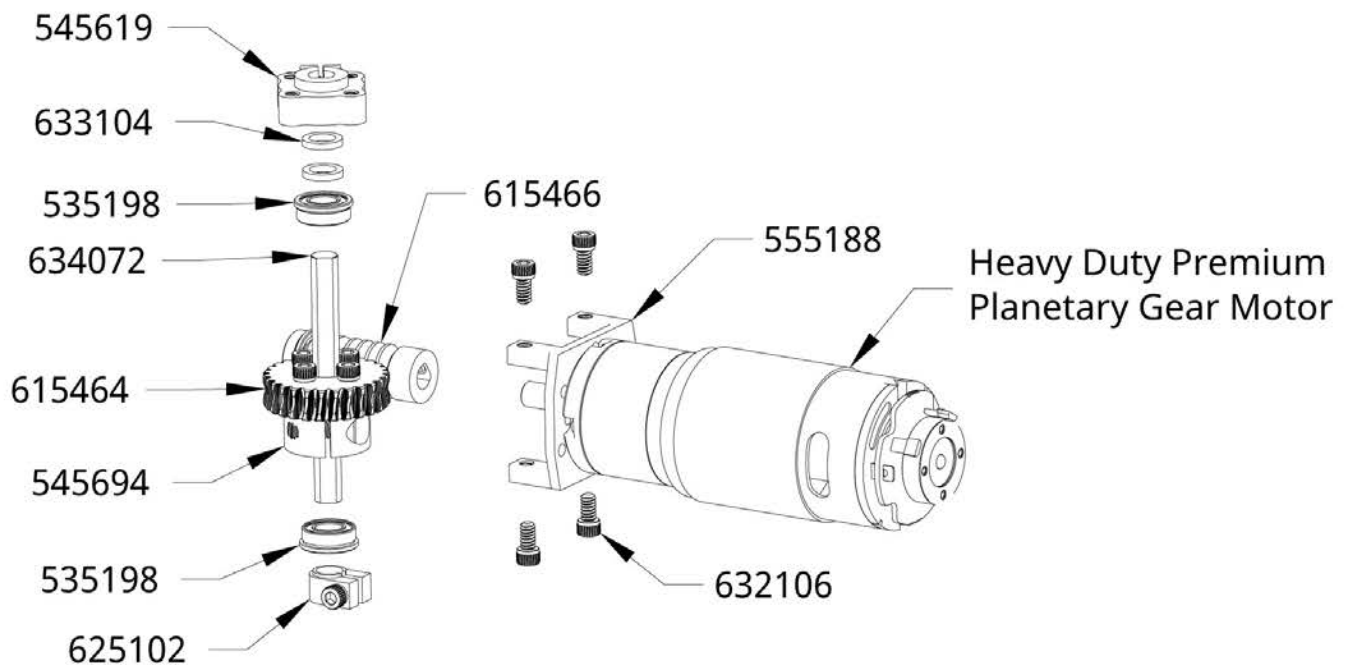
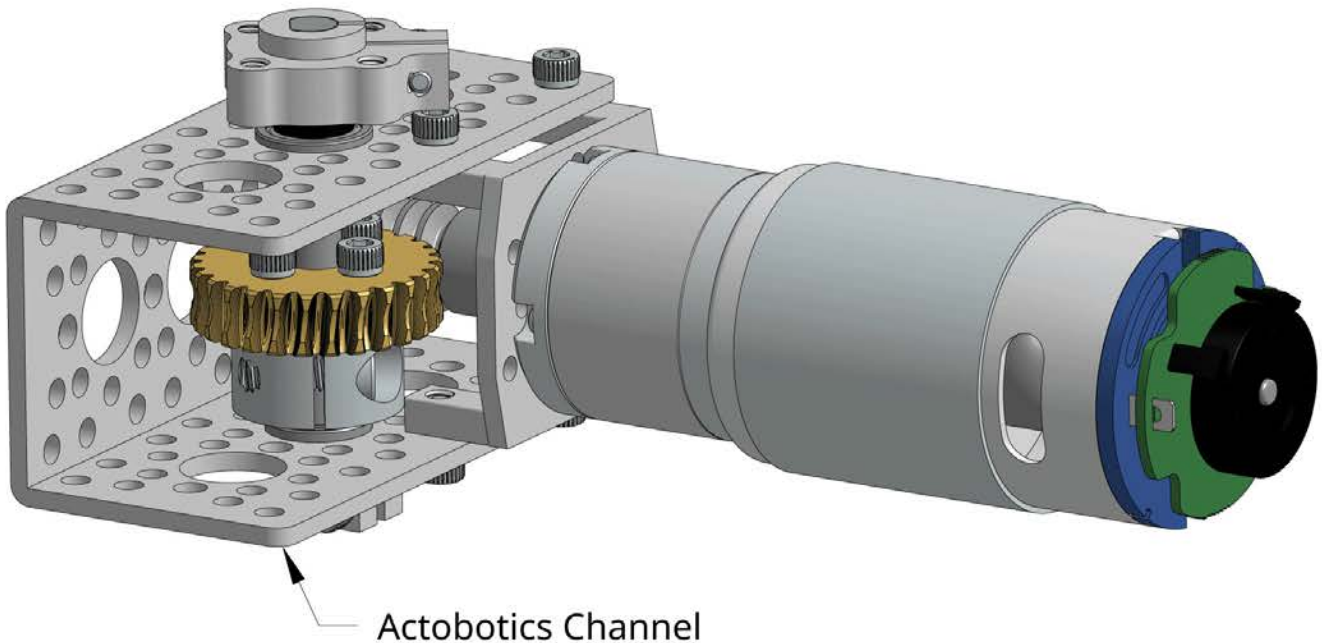


6-32 x 5/16" Socket Head Screws
(Included with 545694)



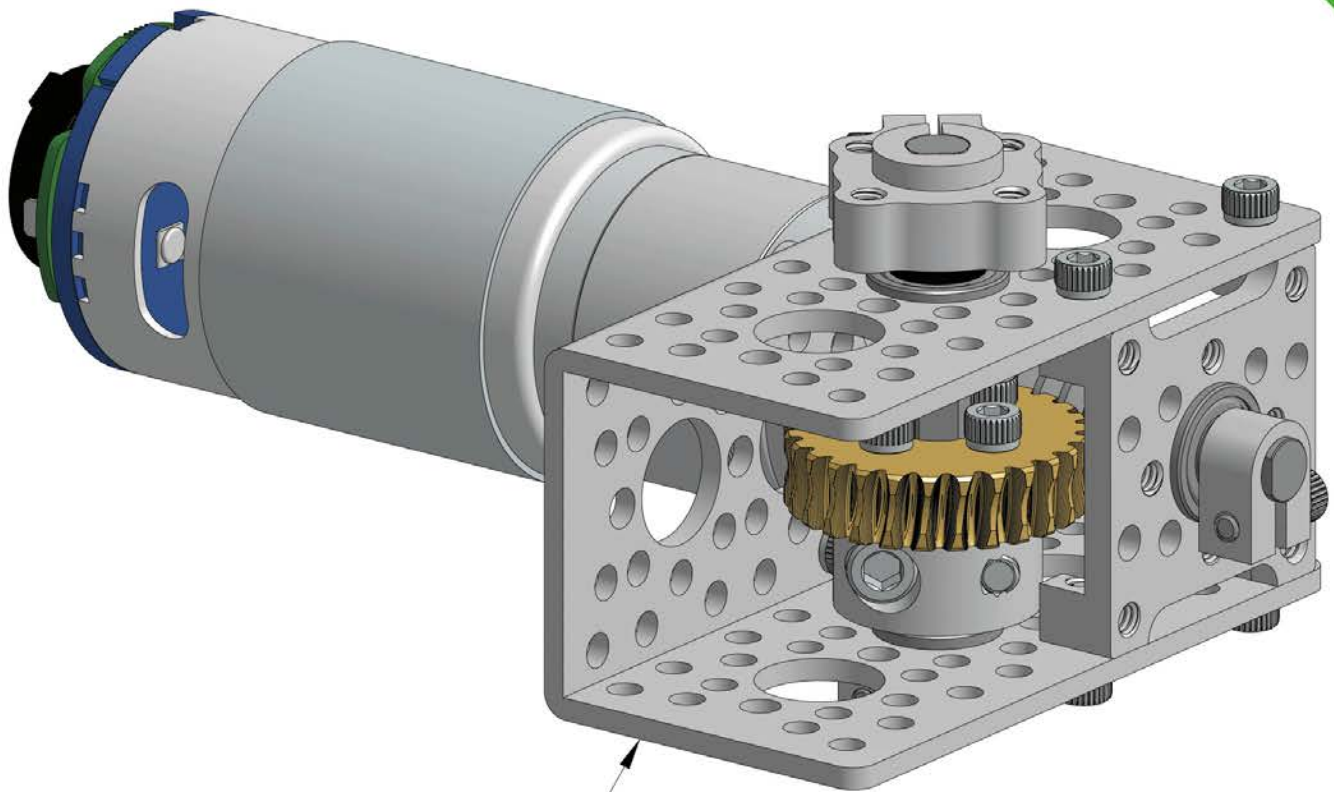
545694 Product Insight #2

The 545694 hub is compatible with the 615460 (a 26 Tooth Hub Mount Bevel Gear). It is shown here with the 615458 (13 Tooth, 6mm D-Bore Bevel Gear) to create a 2:1 ratio.



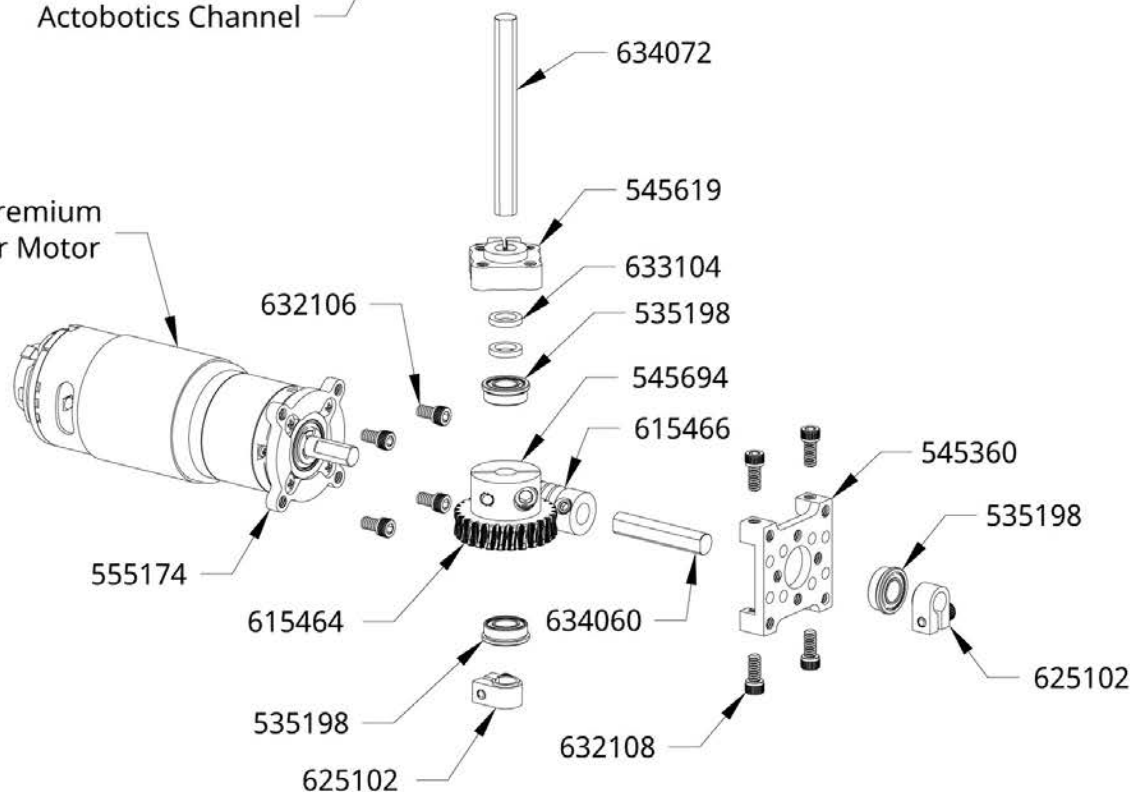
545684 Product Insight #3

This 27:1 ratio worm gear setup utilizes the 545694 hub. This setup shows how you might mount a Heavy Duty Premium Planetary Gear Motor from the open side of Actobotics channel.



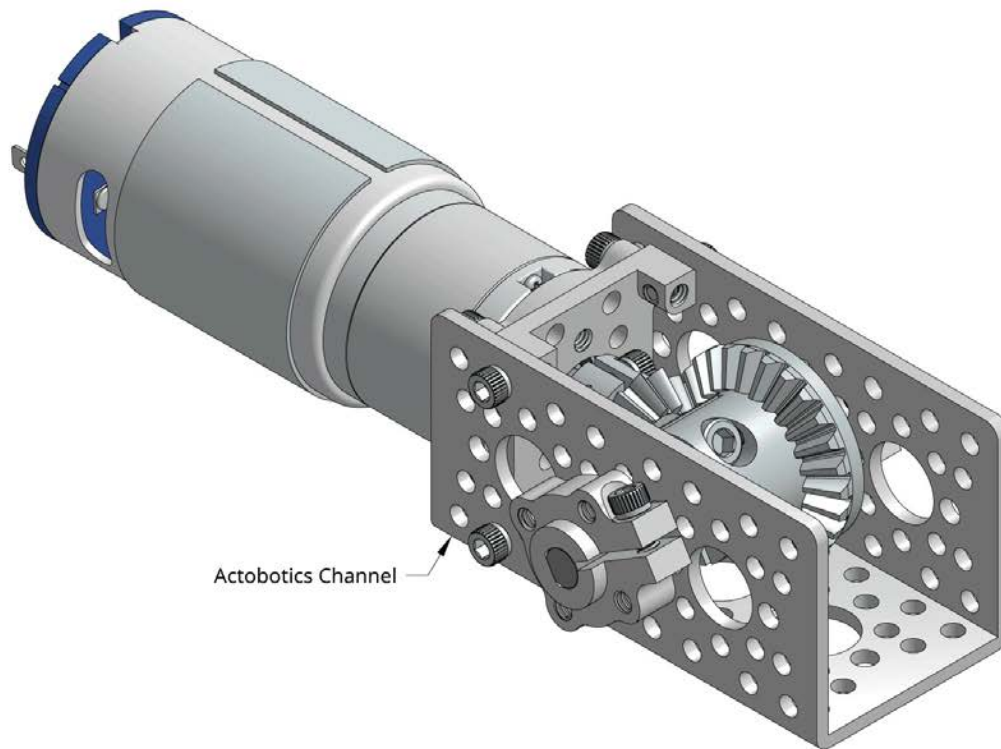
Actobotics Channel

Heavy Duty Premium Planetary Gear Motor

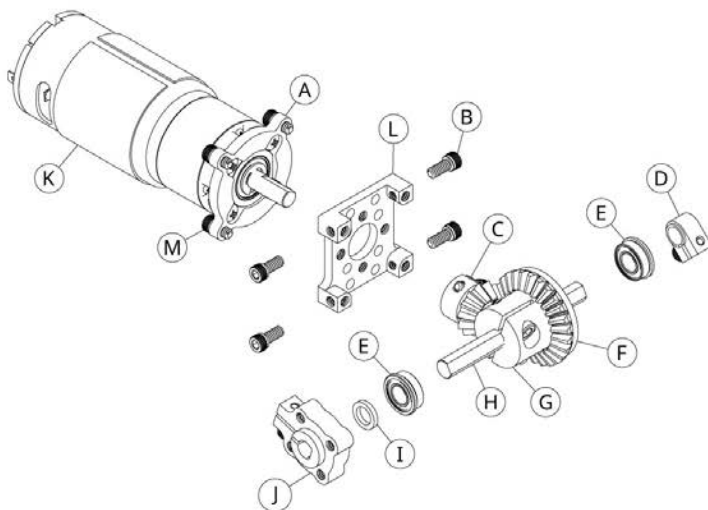


545694 Product Insight #4

This 27:1 ratio worm gear setup utilizes the 545694 hub. This setup shows how you might mount a Heavy Duty Premium Planetary Gear Motor from the back side of Actobotics channel.



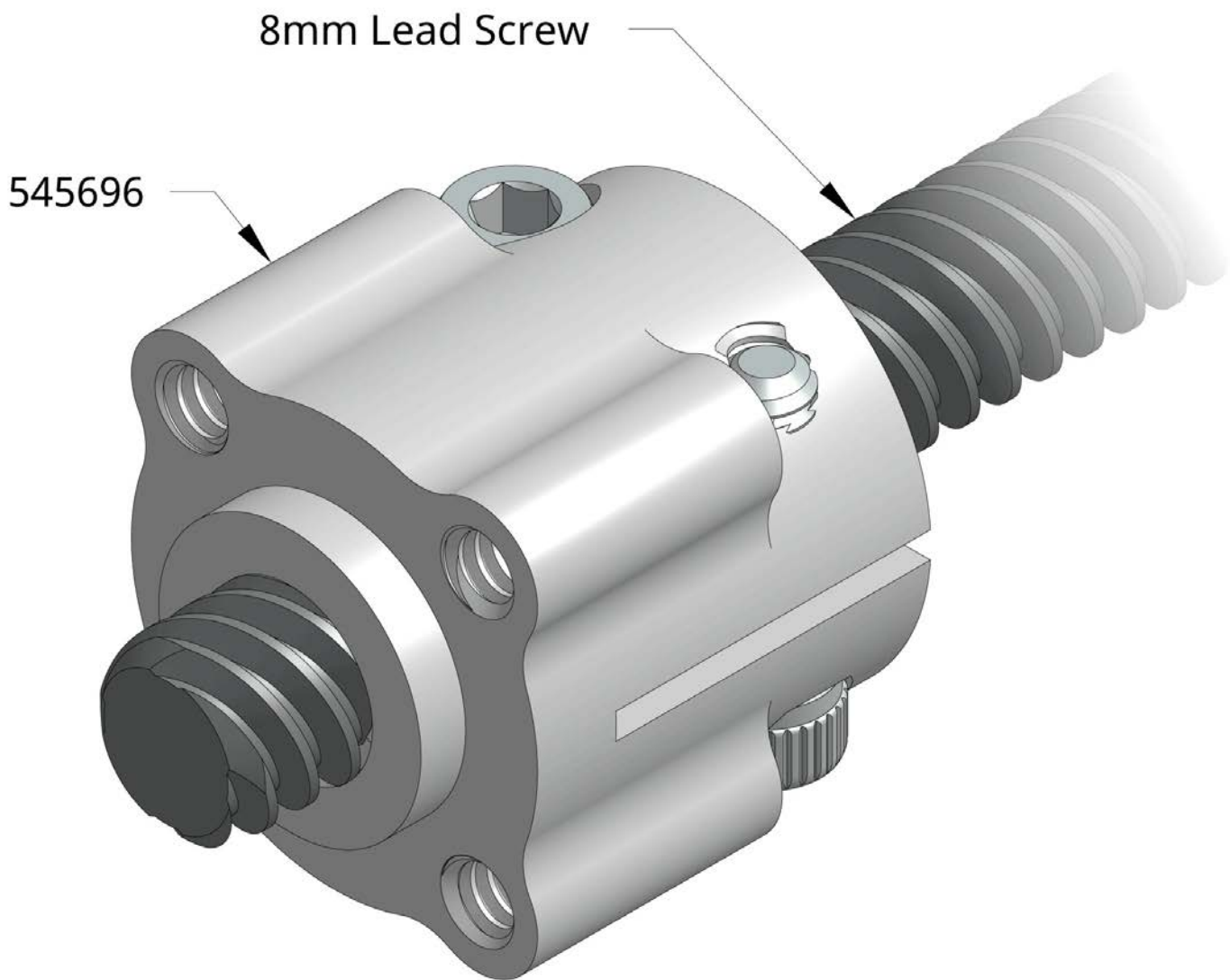
Actobotics Channel



Item	Pcs	SKU	Description
A	1	555180	HD Premium Planetary Gear Motor Mount
B	8	632108	6-32 Screw, 5/16" Length
C	1	615458	13 Tooth, 6mm D-Bore, Shaft Mount Bevel Gear
D	1	625102	1/4" Flanged Aluminum Clamping Collar
E	2	535198	1/4" ID x 1/2" OD Flanged Ball Bearing
F	1	615460	26 Tooth, 1/4" Bore, Hub Mount Bevel Gear
G	1	545694	Steel 1/4" D-Bore Barrel Hub
H	1	634072	1/4" D-Shaft, 2.375" Length
I	1	633104	1/4" ID Shafting Spacer
J	1	545619	1/4" D-Bore Clamping Hub
K	1	N/A	Heavy Duty Premium Planetary Gear Motor
L	1	545360	Side Tapped Pattern Mount C
M	1	632106	6-32 Screw, 1/4" Length

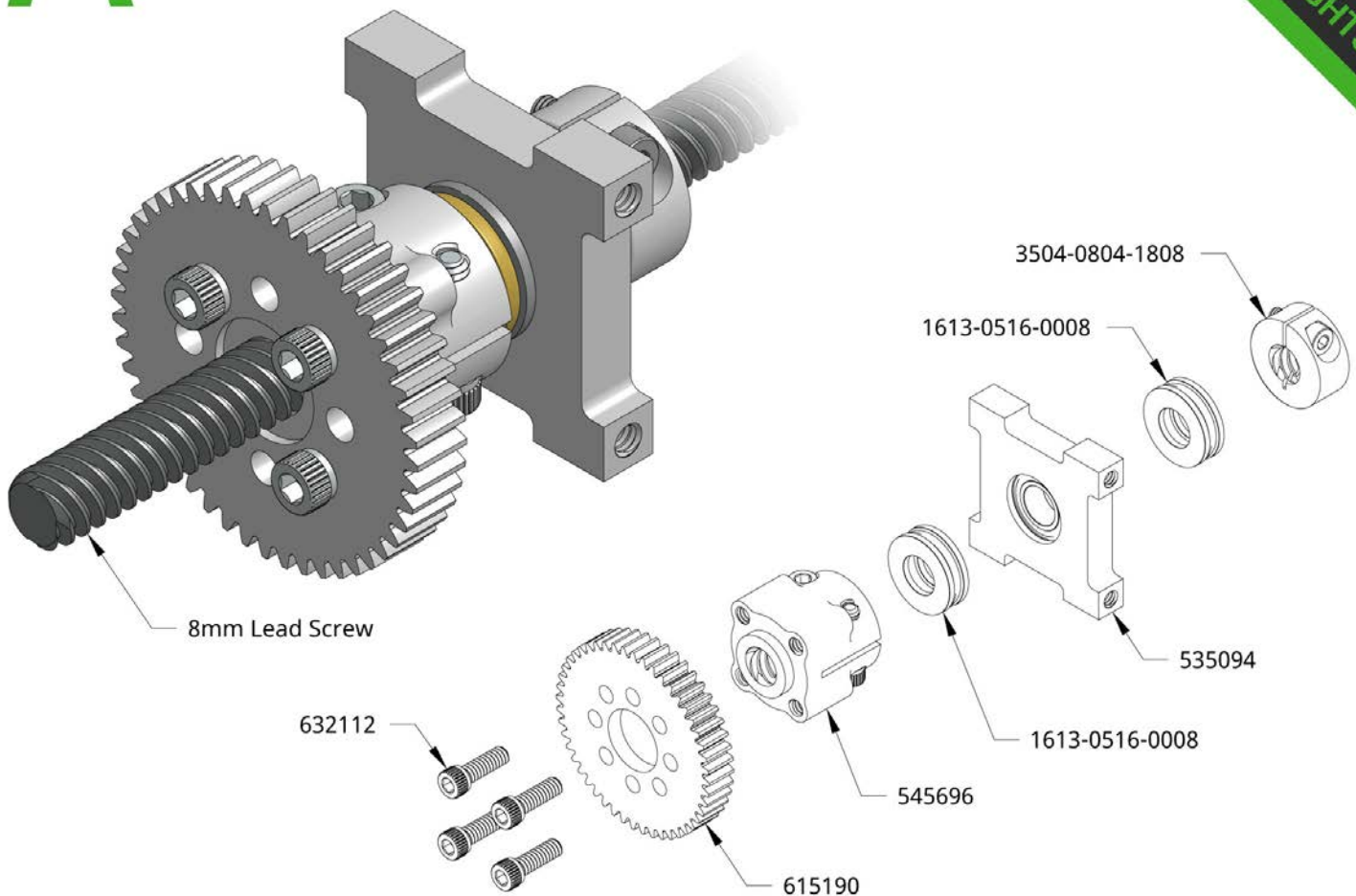
545694 Product Insight #5

This 2:1 ratio bevel gear assembly fits inside of Actobotics® Channel. The HD Premium Planetary Gear Motor is a little larger than the channel's inner dimensions so it is mounted on the end to a 545360 pattern mount.



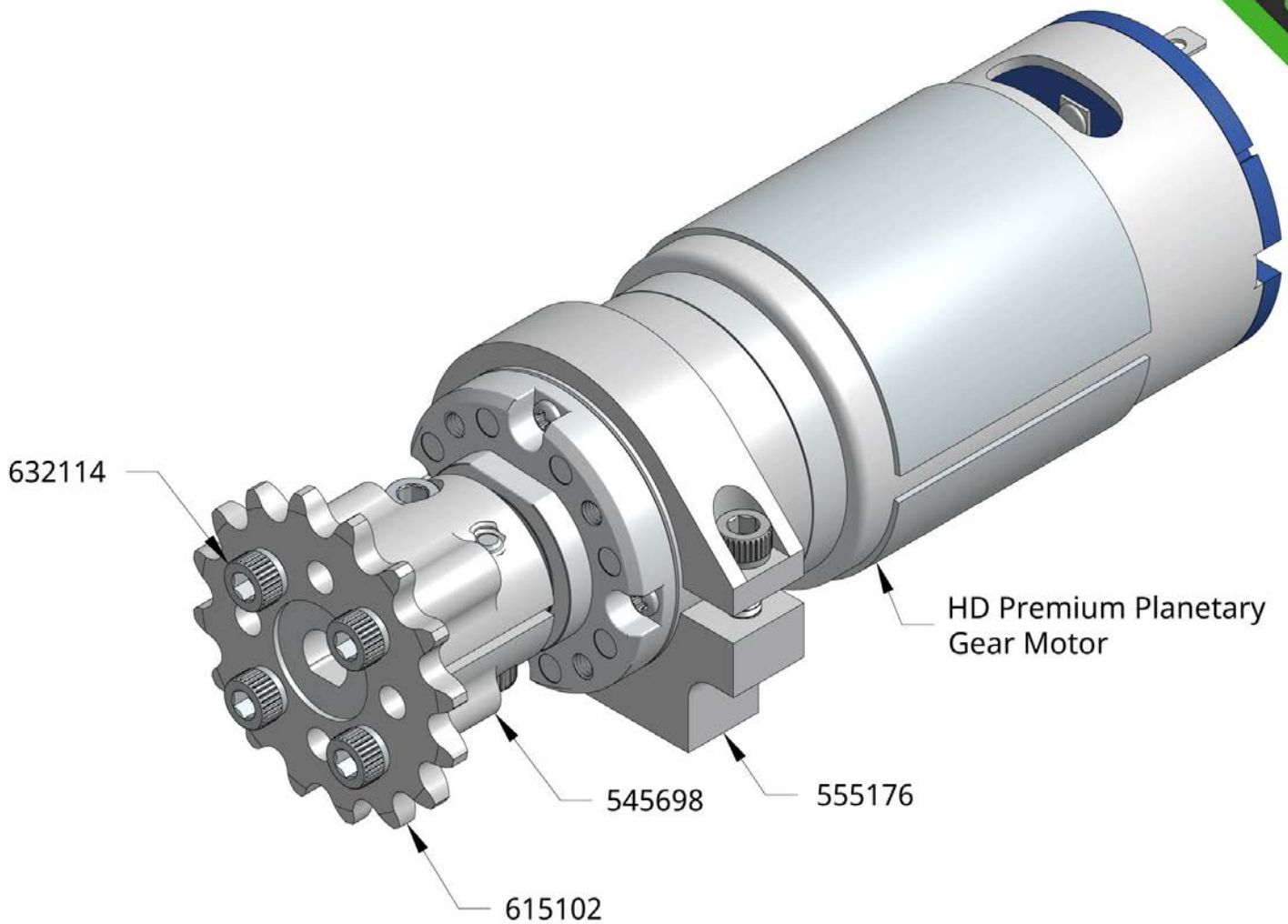
545696 Product Insight #1

The 545696 is a clamping barrel hub that has internal 8mm leadscrew threads. This allows for an extreme grip onto an 8mm lead screw. The barrel hub design is balanced to prevent vibration from being introduced into the rotating assembly.



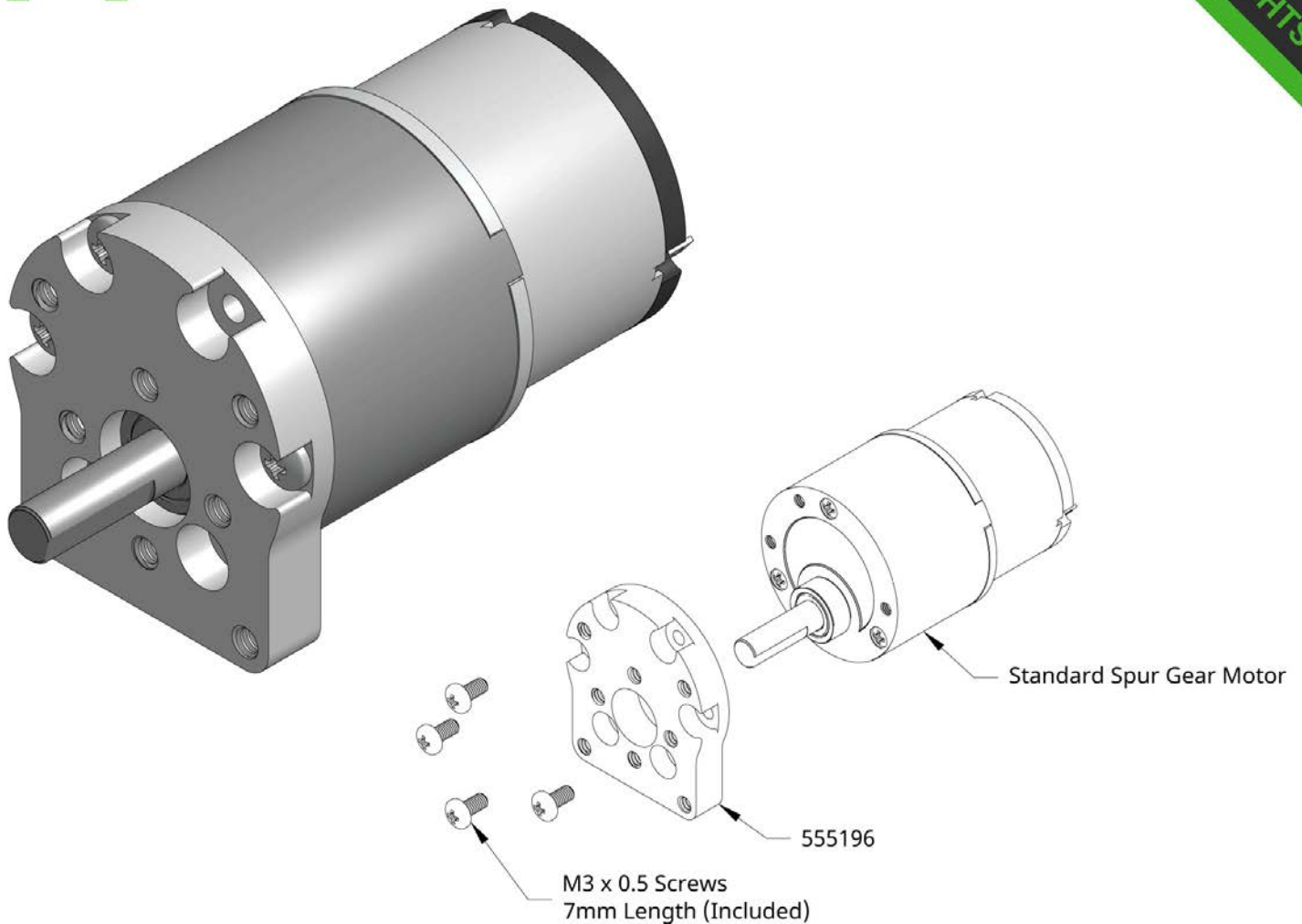
545696 Product Insight #2

The 545696 has internal 8mm lead screw threads which give it superior clamping force. It has four 6-32 tapped holes in the 0.770" Actobotics pattern. This makes it the perfect part to fasten a gear to a lead screw in order to drive it.



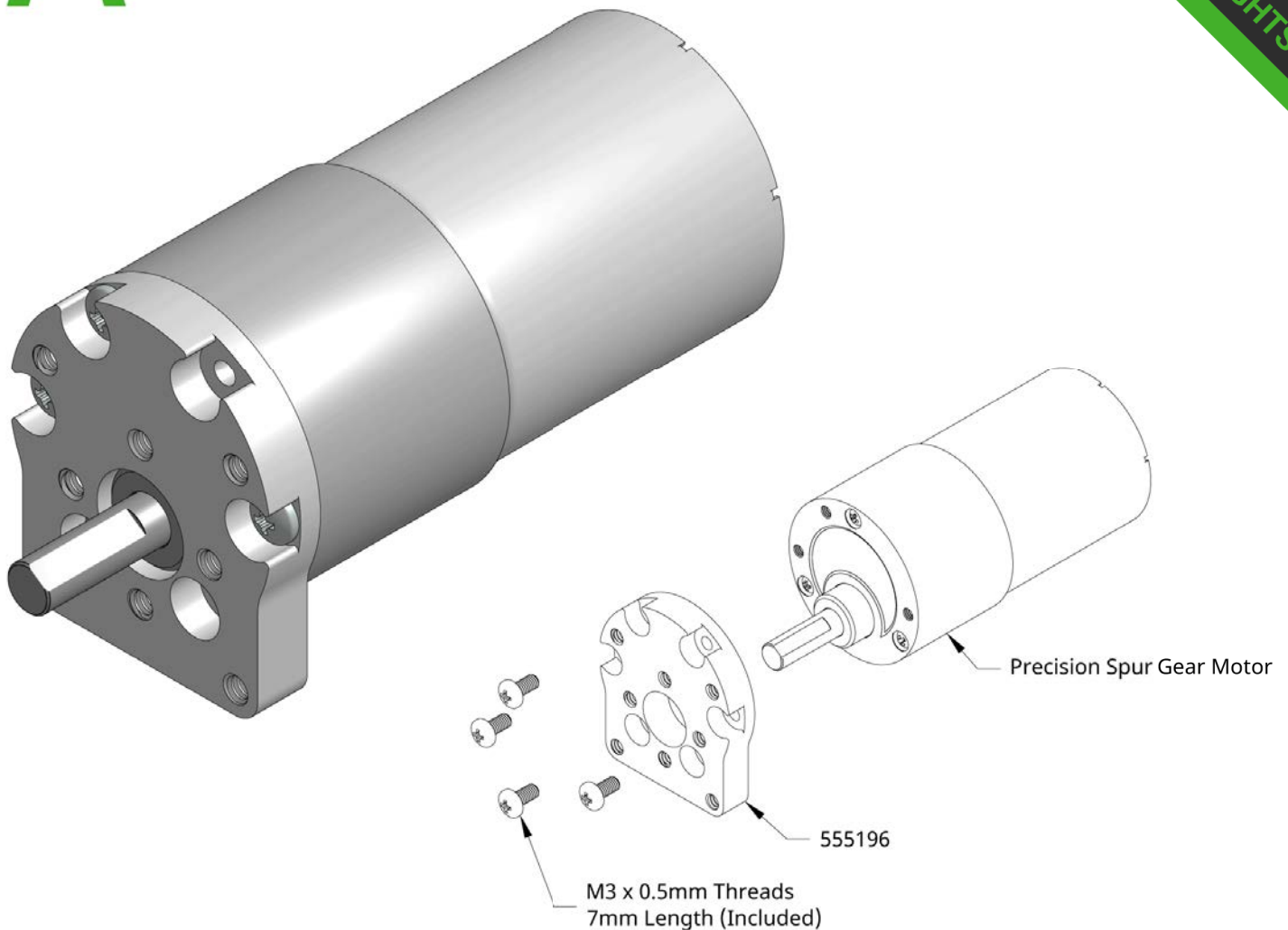
545698 Product Insight #1

The 545698 Clamping Barrel Hub has a 6mm D-Bore, allowing you to direct-mount it to any motor with a 6mm D-Shaft. It has four 6-32 tapped holes on the 0.770" Actobotics pattern. This allows a wide range of Actobotics parts to be directly mounted to the hub.



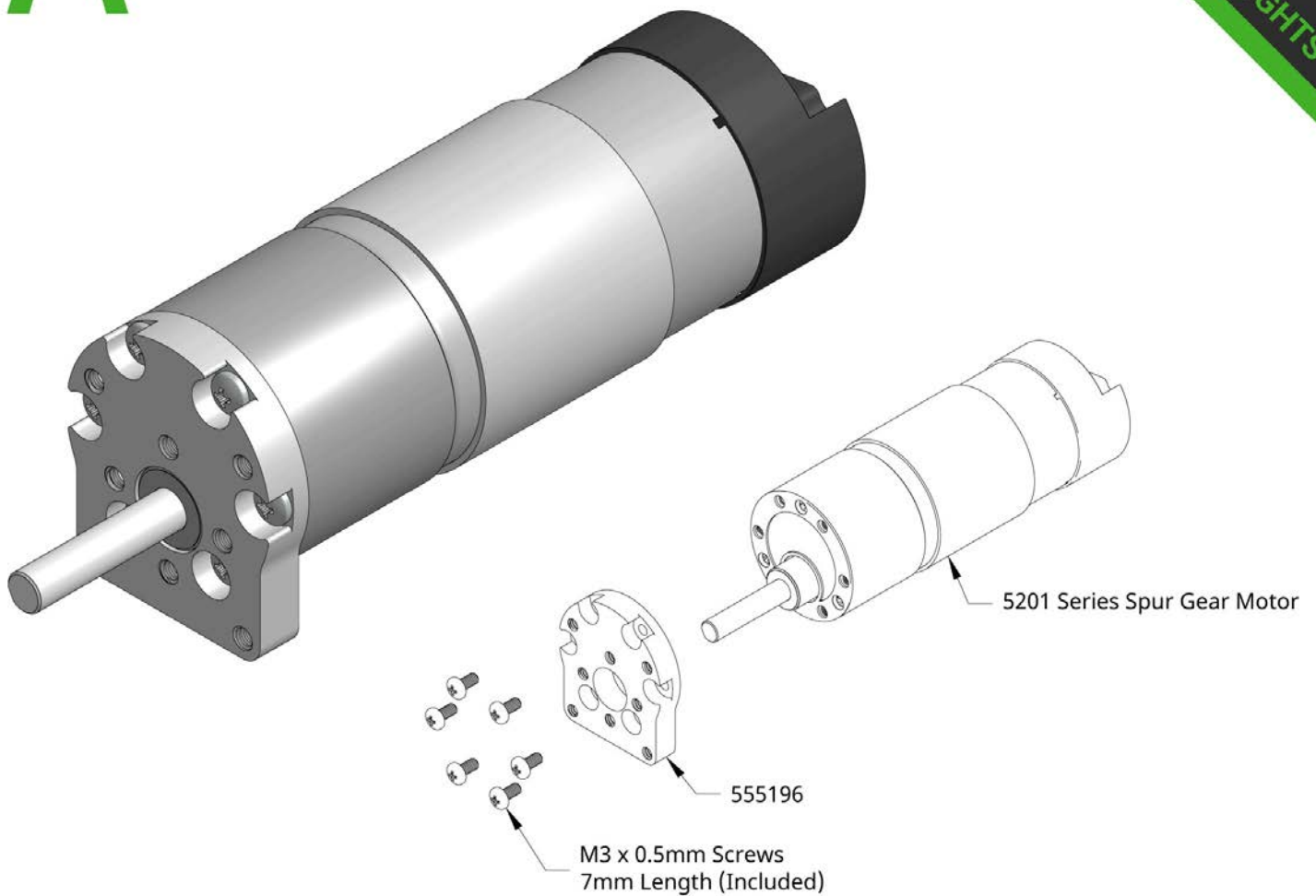
555196 Product Insight #1

The Spur Gear Motor Mount G (SKU 555196) mounts to Standard Spur Gear Motors. The threaded holes on the 0.770" pattern and 1.50" pattern make it easy to mount to Actobotics components. Though this mount comes with six M3 screws, some motors, such as the one shown will only use four screws.



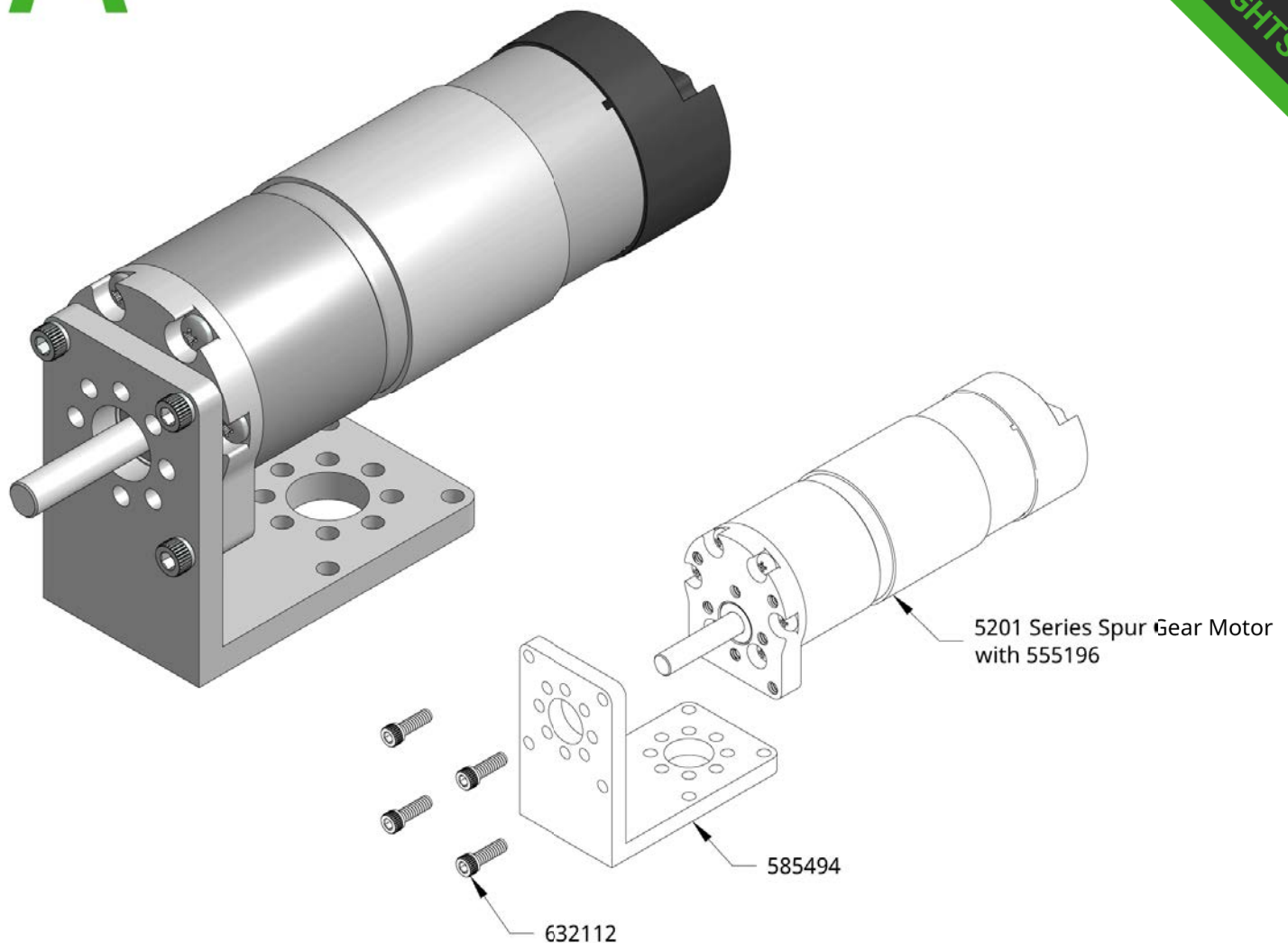
555196 Product Insight #2

The Spur Gear Motor Mount G (SKU 555196) mounts to Precision Spur Gear Motors. The threaded holes on the 0.770" pattern and 1.50" pattern make it easy to mount to Actobotics components. Though this mount comes with six M3 screws, some motors, such as the one shown will only use four screws.



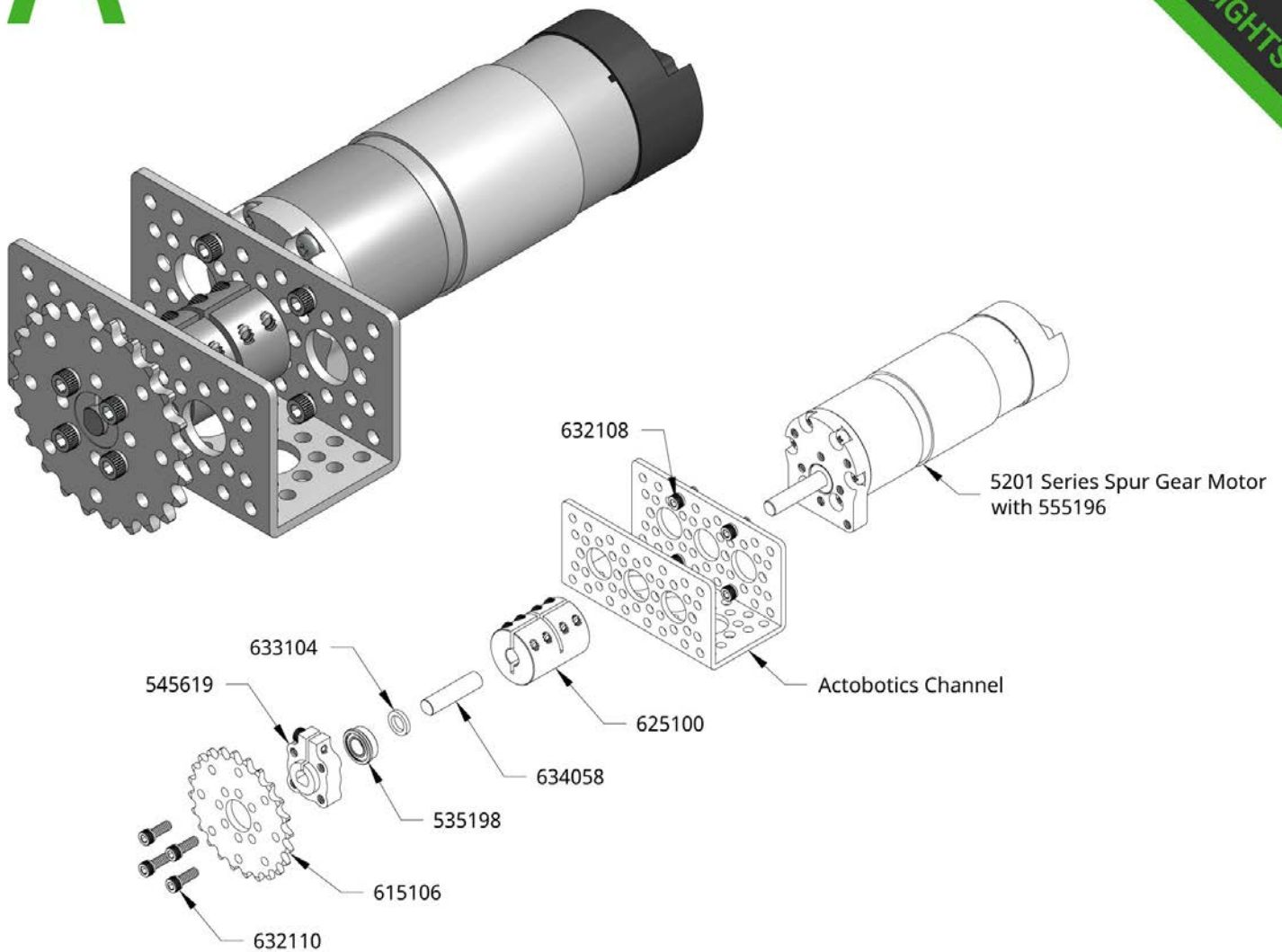
555196 Product Insight #3

The Spur Gear Motor Mount G (SKU 555196) mounts to 5201 Series Spur Gear Motors. The threaded holes on the 0.770" pattern and 1.50" pattern make it easy to mount to Actobotics components.



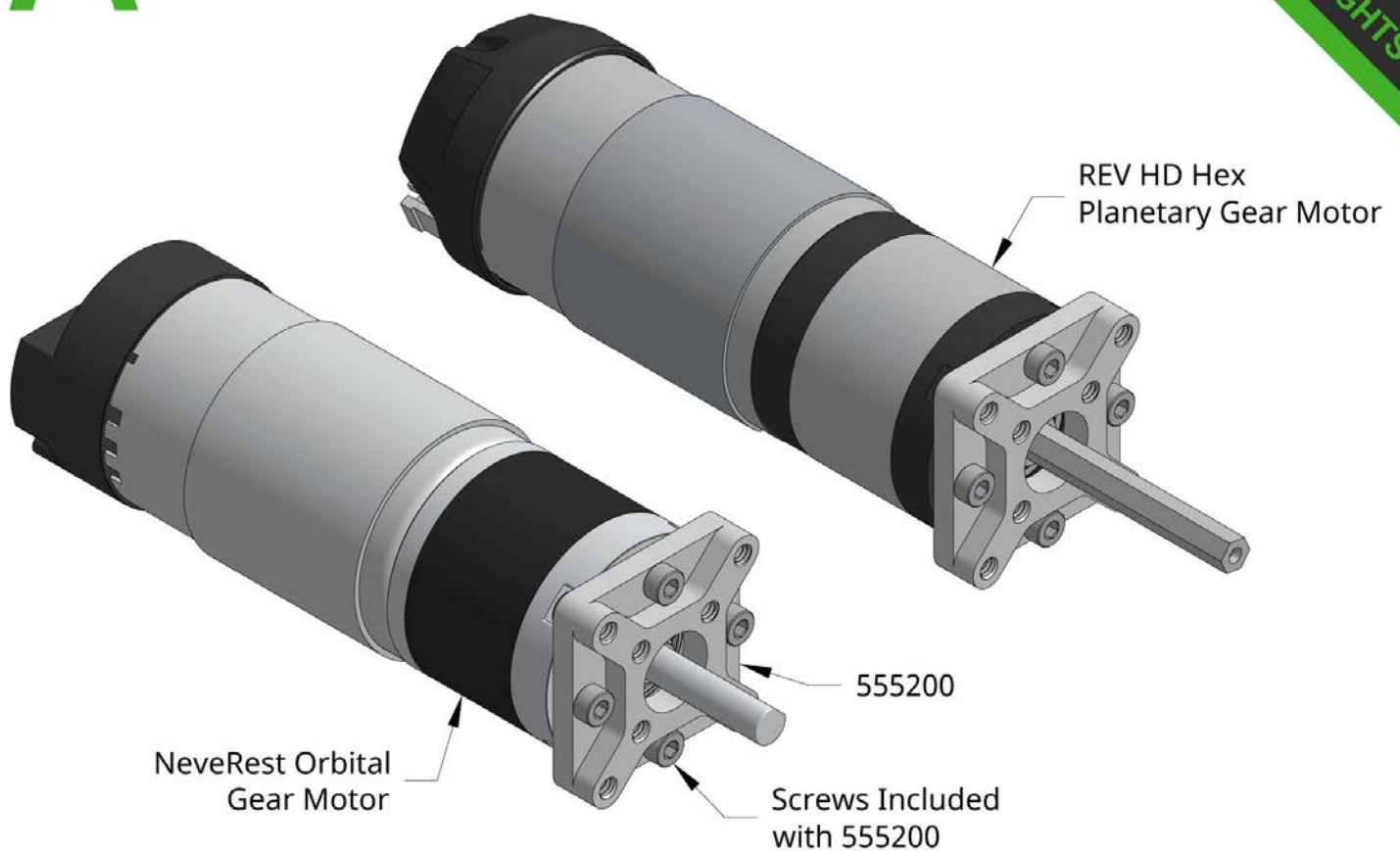
555196 Product Insight #4

Attaching the Spur Gear Motor Mount G (SKU 555196) to the front of your motor gives you the Actobotics pattern on the face. The 90° Pattern Mount (SKU 585494) is sturdy and provides useful clearance and mounting options.



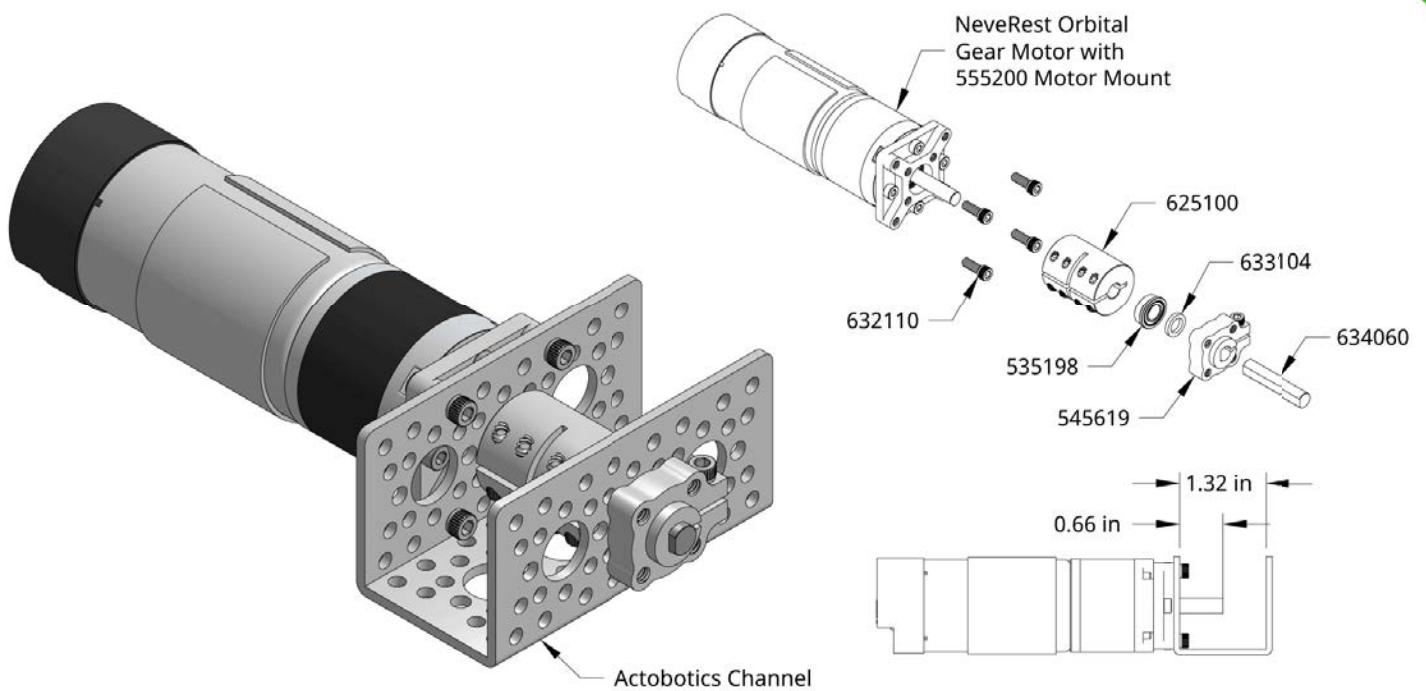
555196 Product Insight #5

A very common practice is to mount a motor perpendicular to Actobotics channel for assemblies like this one. The Spur Gear Motor Mount G (SKU 555196) makes it possible to do this, and is compatible with a variety of spur gear motors.



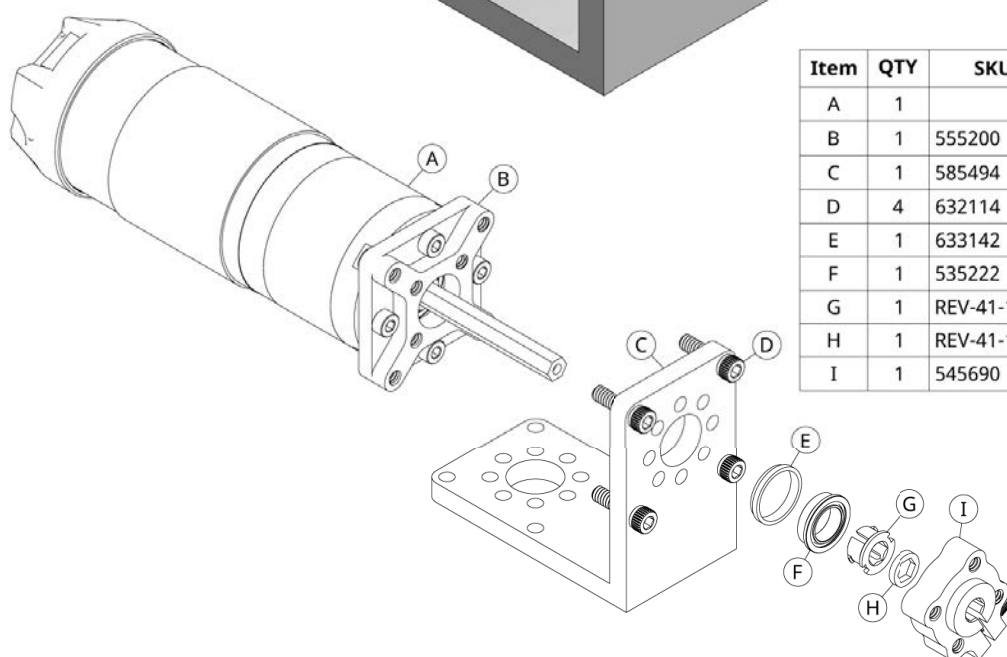
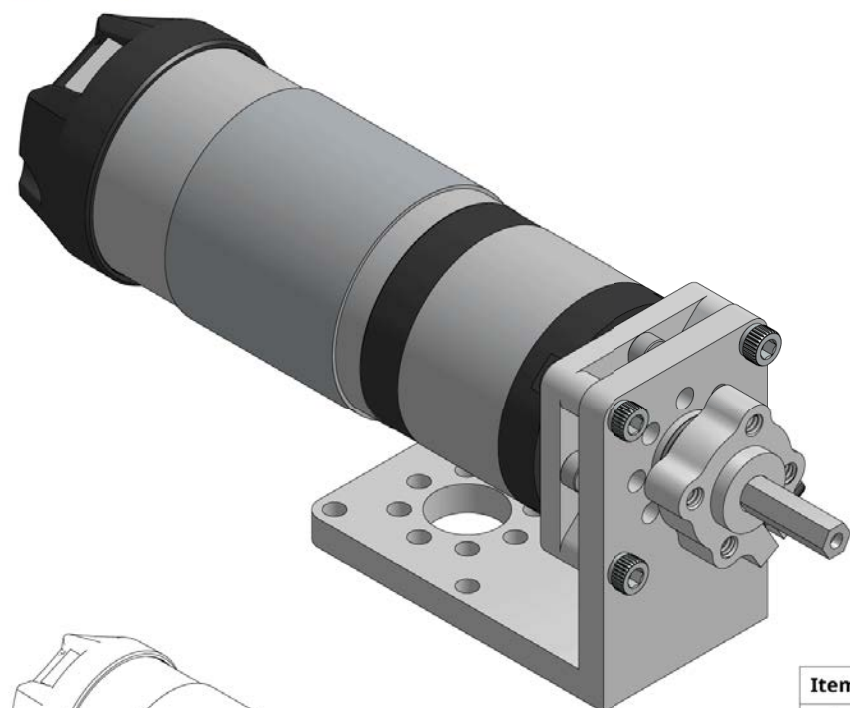
555200 Product Insight #1

A 555200 is designed to add the Actobotics 0.770" and 1.50" patterns to the face of a NeveRest Orbital Gear Motor or a REV HD Hex Planetary Gear Motor.



555200 Product Insight #2

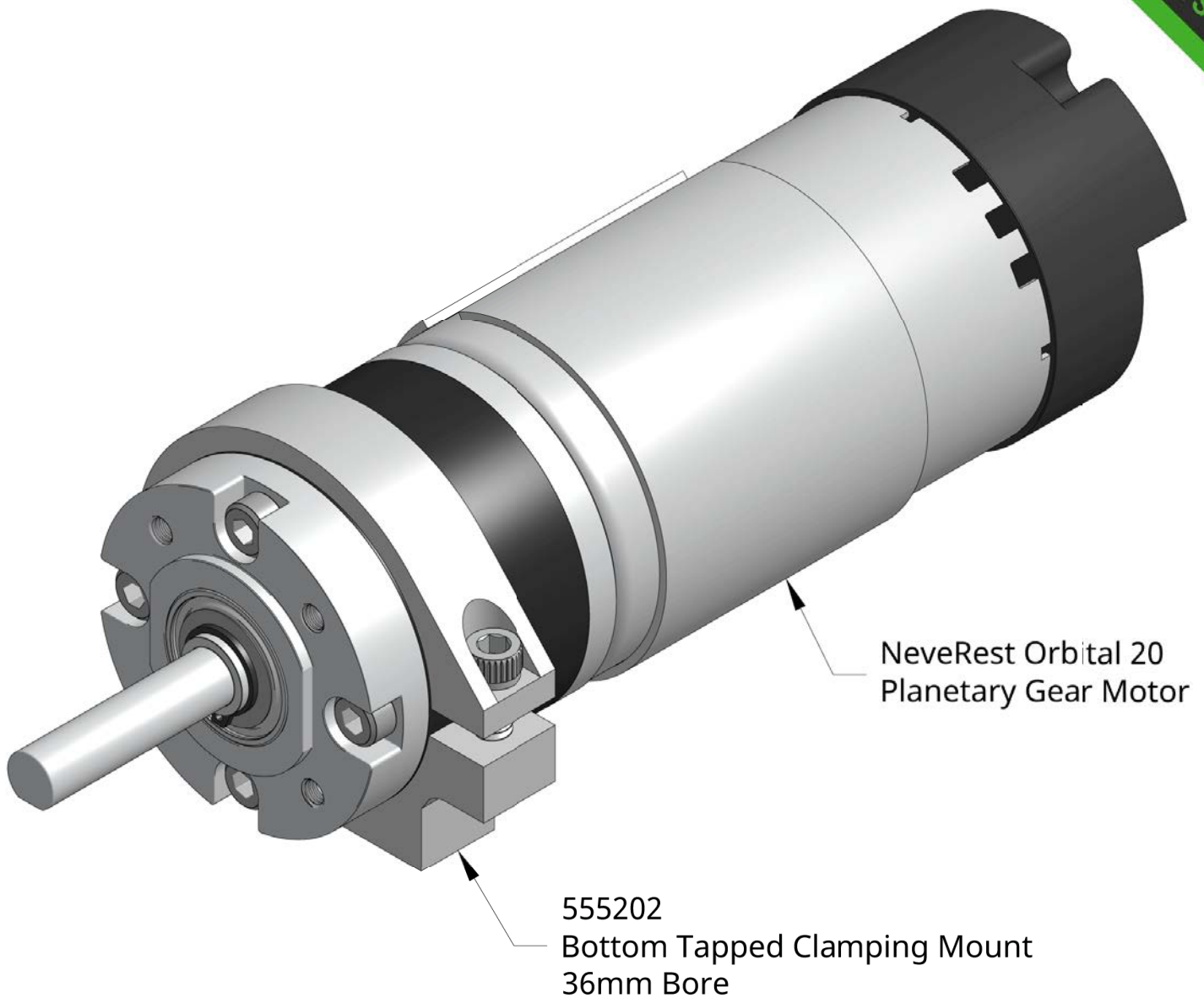
The length of the 555200 Motor Mount is such that the NeveRest Orbital Gear Motor's output shaft will terminate half-way through a length of Actobotics Channel. This is ideal for coupling to another shaft inside the channel.



Item	QTY	SKU	Description
A	1		REV HD Hex Planetary Gear Motor
B	1	555200	Motor Mount
C	1	585494	90° Pattern Mount
D	4	632114	6-32 Screw, 1/2" Length
E	1	633142	1/2" - 12mm Hole Reducer
F	1	535222	8mm ID Flanged Ball Bearing
G	1	REV-41-1528	REV 5mm Hex to 8mm Flange Insert
H	1	REV-41-1325	REV Hex Spacer
I	1	545690	5mm Hex Clamping Hub

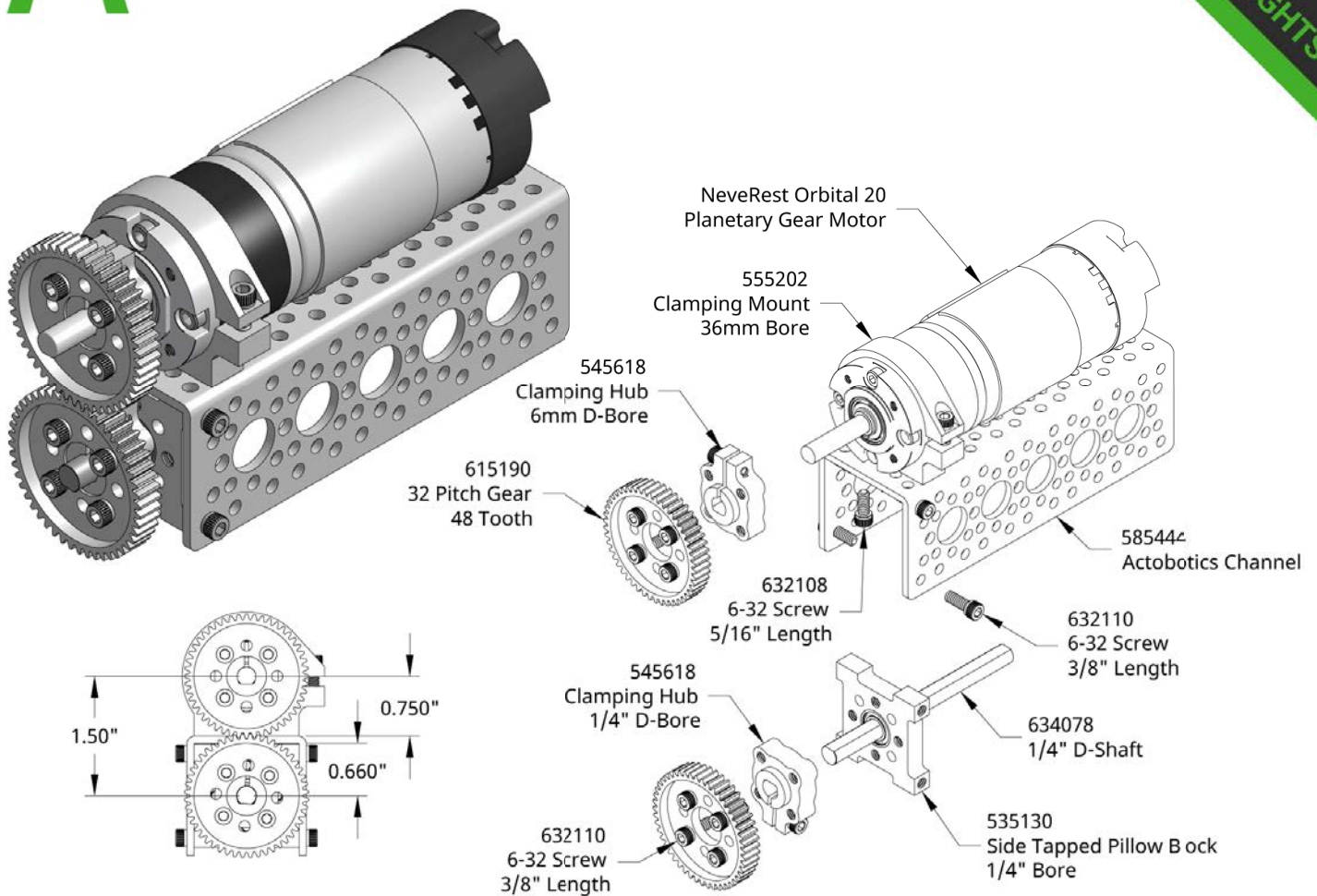
555200 Product Insight #3

The 555200 Motor Mount can fasten to a pattern mount, such as the 585494 for a 90 degree mounting solution. While parts E, F, G and H may not be necessary in many cases, the combination does add additional radial support to the output shaft of the REV HD Hex Planetary Gear Motor.



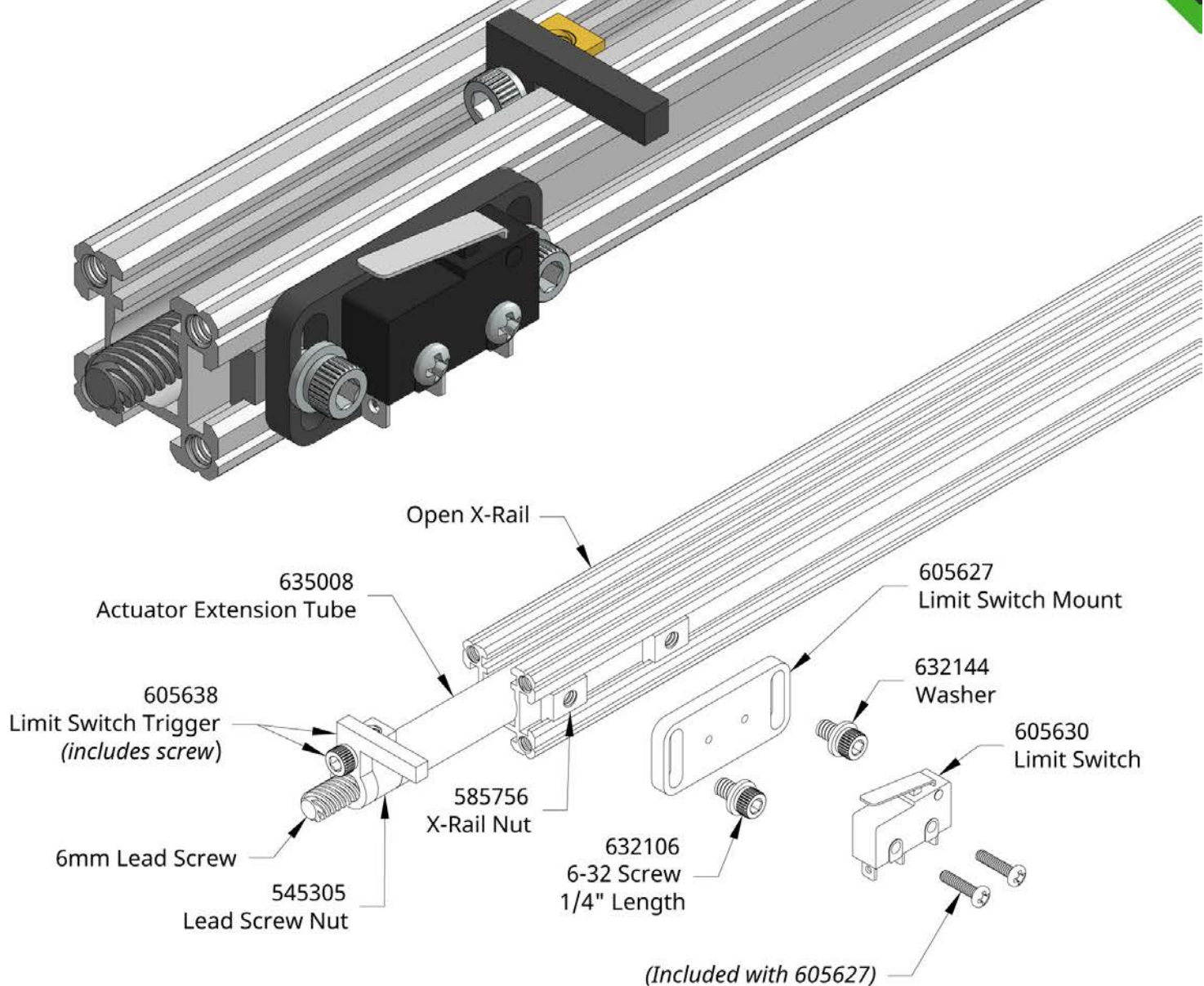
555202 Product Insight #1

The 555202 36mm Bore Bottom Tapped Clamping Mount allows you to securely mount any motor with a 36mm gearbox diameter to a wide range of Actobotics parts. It simply bolts directly down with the use of two 6-32 tapped holes on the bottom of the mount.



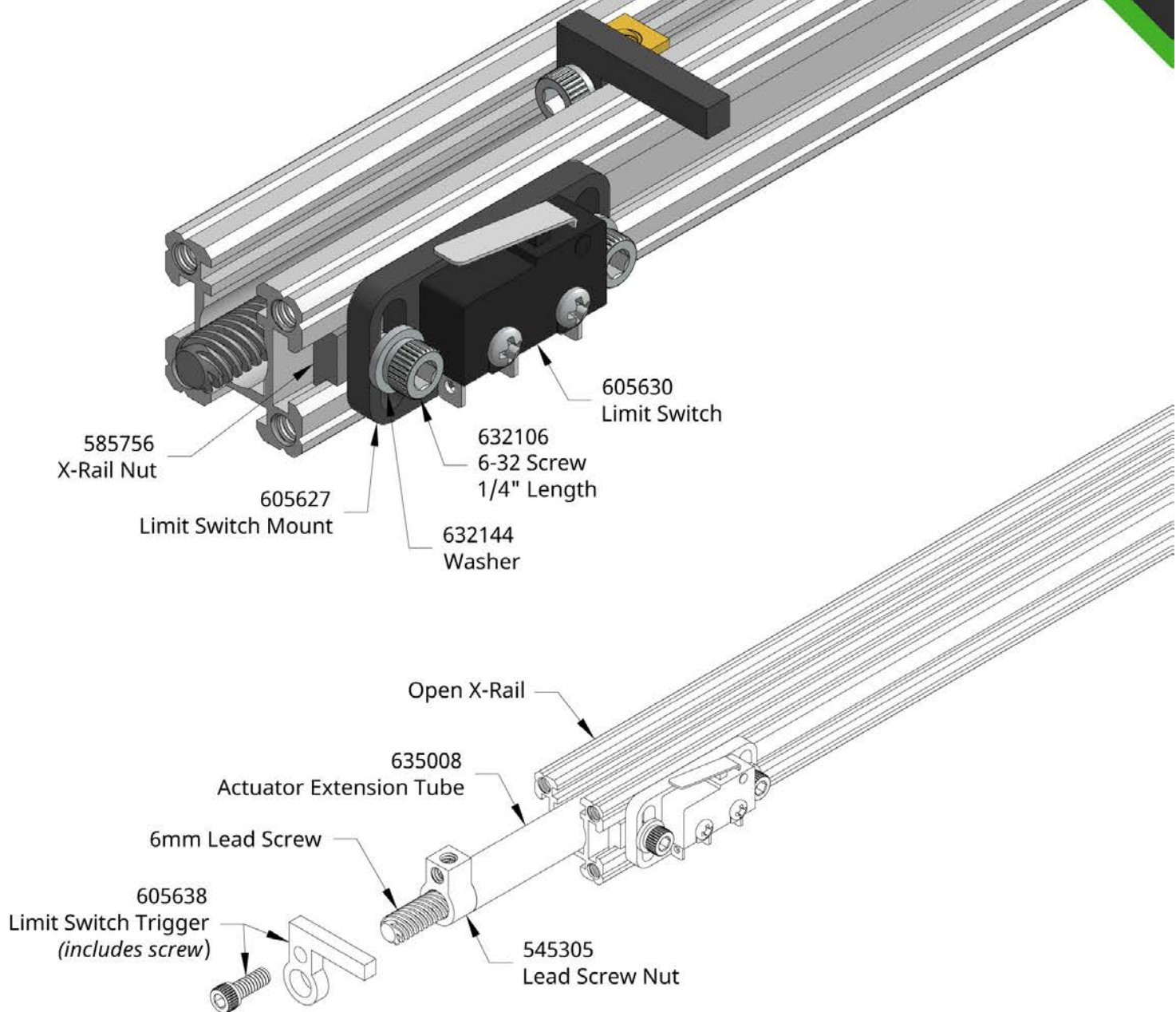
555202 Product Insight #2

The 555202 36mm Bore Bottom Tapped Clamping Mount is designed to be an "outside of channel" part. This means it has a 0.75 inch "deck height". "Inside of channel" parts like the pillow block shown have a 0.66 inch deck height. When used on opposing sides of the 0.09 inch thick channel wall, their center-to-center distance will be on the 1.50" pattern.



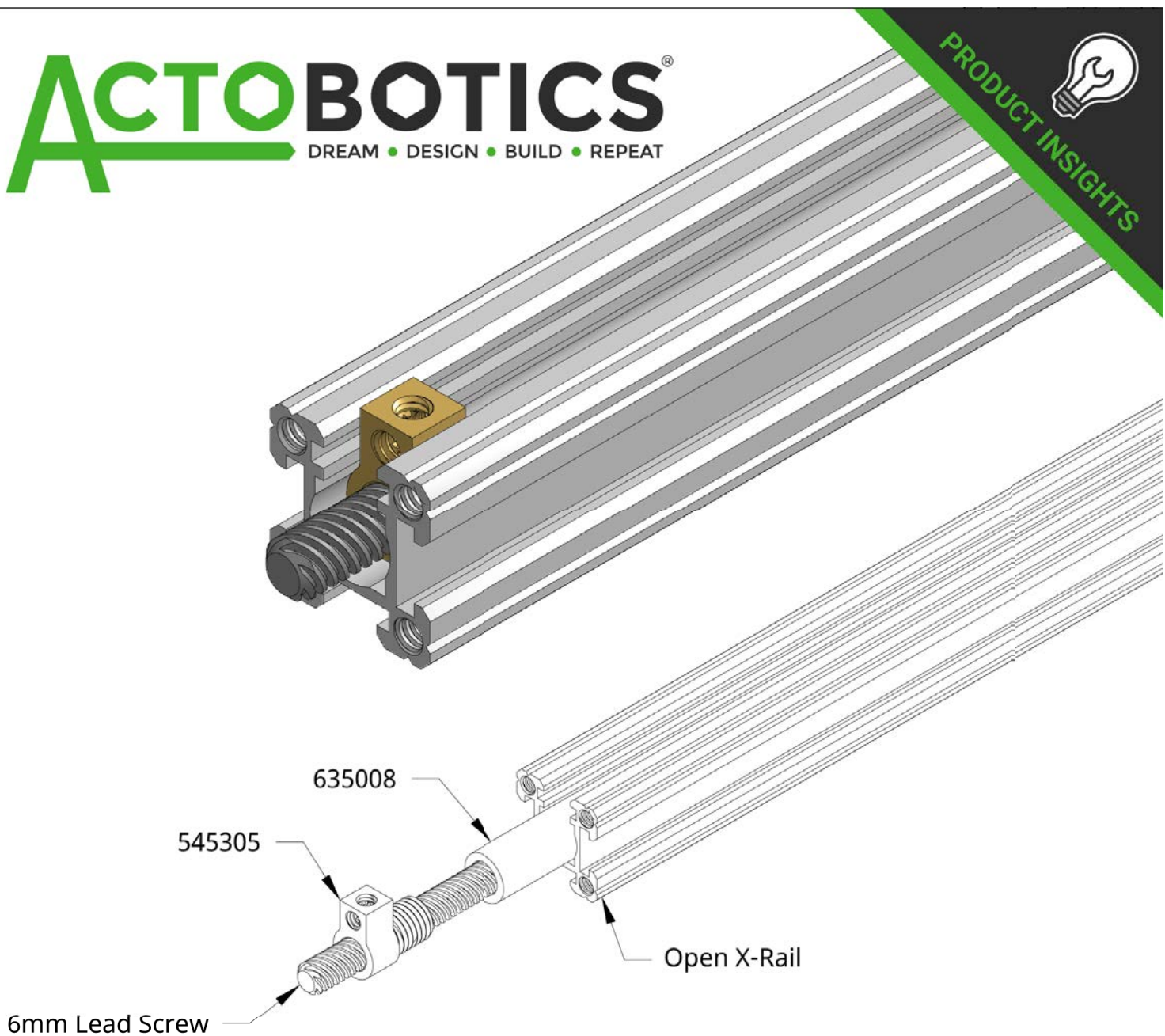
605627 Product Insight #1

The 605627 Limit Switch Mount is tall enough to span the gap of X-Rail. The vertical slots allow you to adjust the positioning such that the limit switch gets depressed at precisely the desired location.



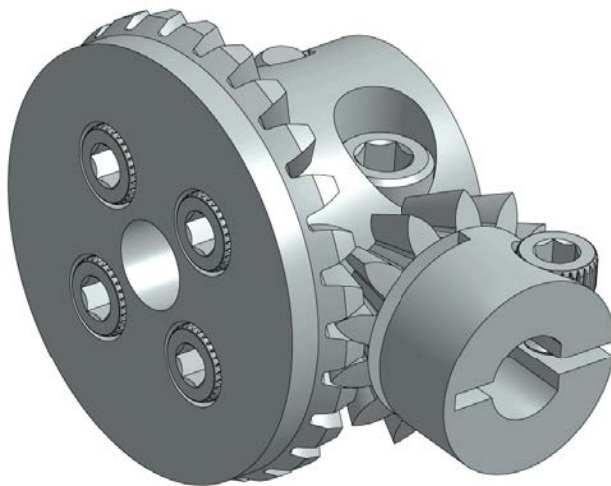
605638 Product Insight #1

The 605638 Limit Switch Trigger is designed to fasten to a 545305 Lead Screw Nut within Open X-Rail in order to trigger a limit switch.

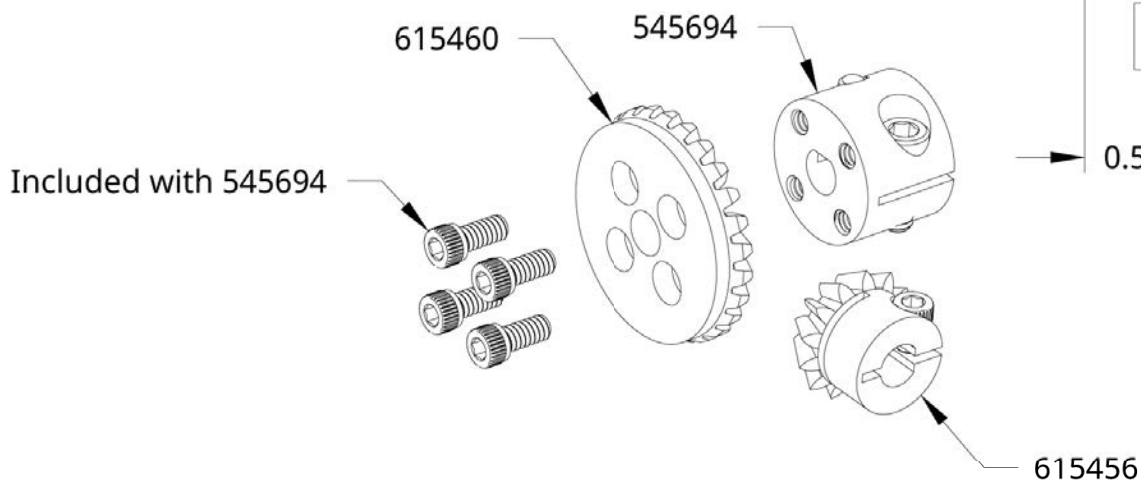
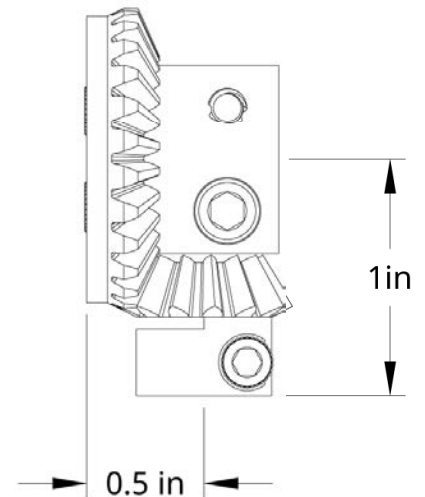


635008 Product Insight #1

The 545305 Keyhole Lead Screw Nut fastens to a 635008 tube to create a linear actuator piston. It is driven by a 6mm lead screw and has a keyhole-shaped outer profile. When it is inside of Open X-Rail, that keyhole shape prevents it from rotating. Therefore, rotating the lead screw within it will drive it linearly within the Open X-Rail.

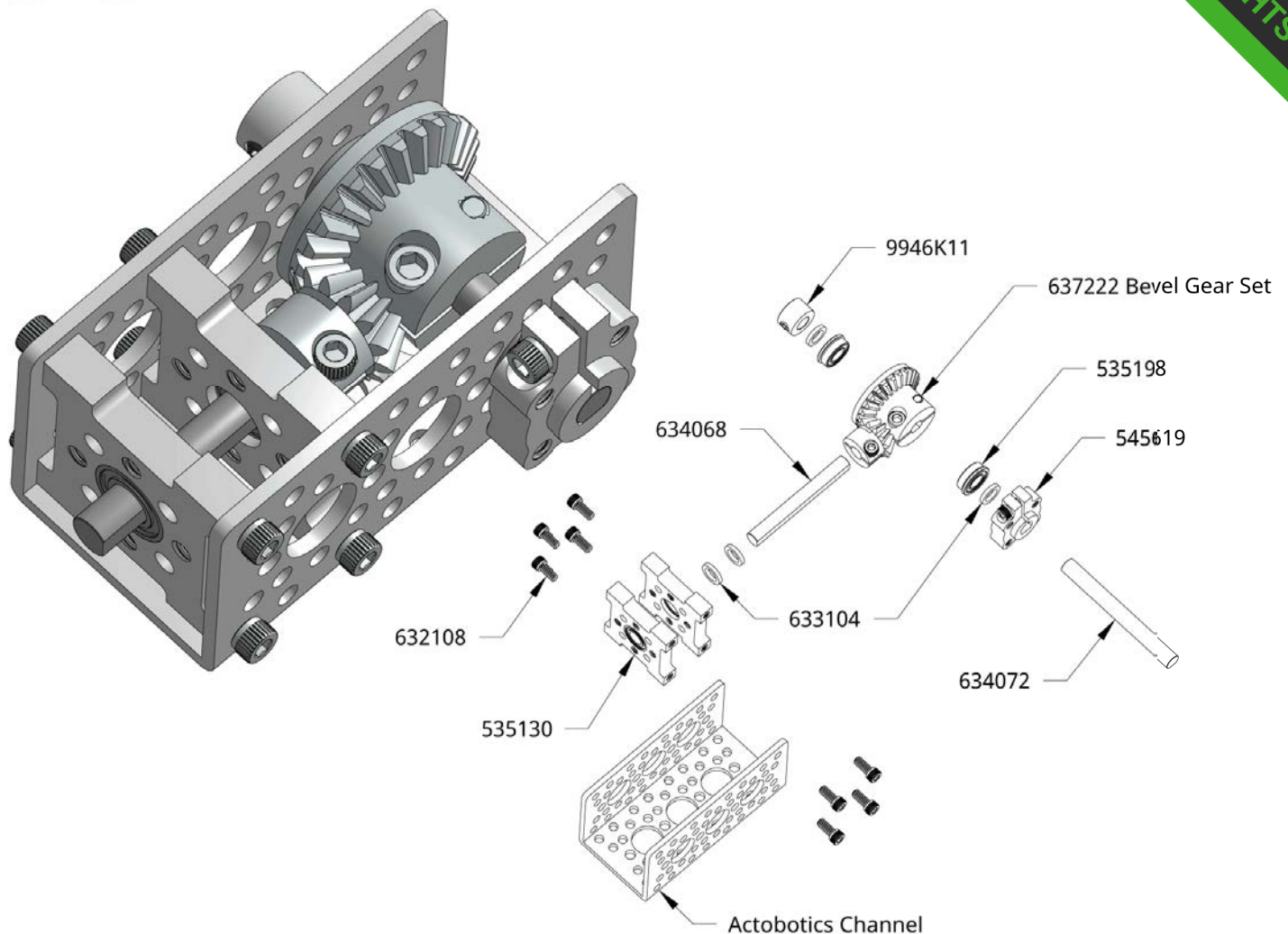


All parts shown can be purchased as 637222 or they can be purchased individually.



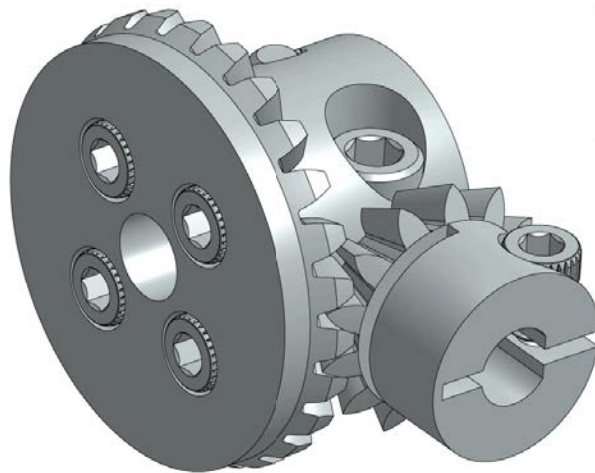
637222 Product Insight #1

The 637222 Bevel gear set assembles easily with only four 632108 screws that are included with the kit. This kit has the 1/4" D-Bore pinion, and a 1/4" D-bore hub making this set useful with two 1/4" D-shafts.

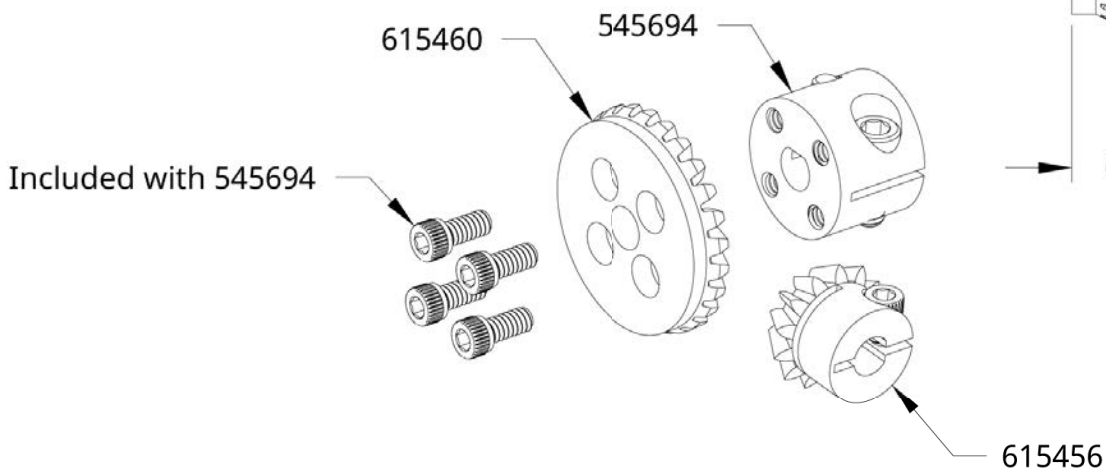
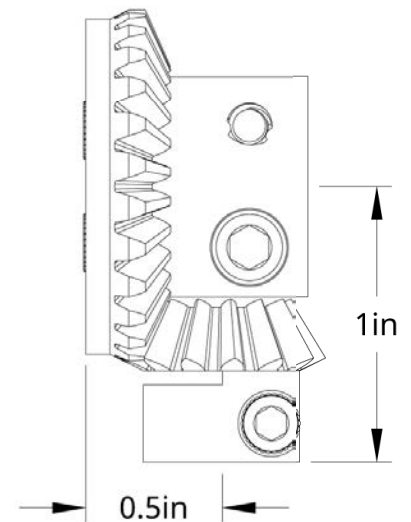


637222 Product Insight #2

In some robotics applications, a right angle gearbox is needed. With the 637222 Bevel Gear Set, it is possible to build your own. This gear set is designed to fit inside of Actobotics Channel.

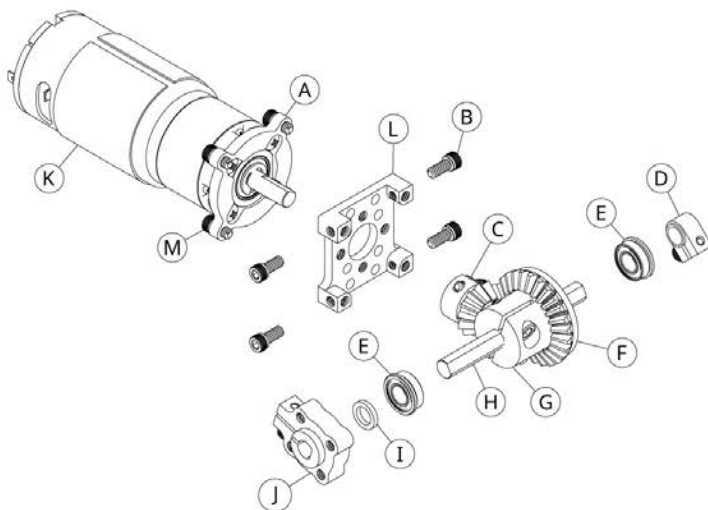
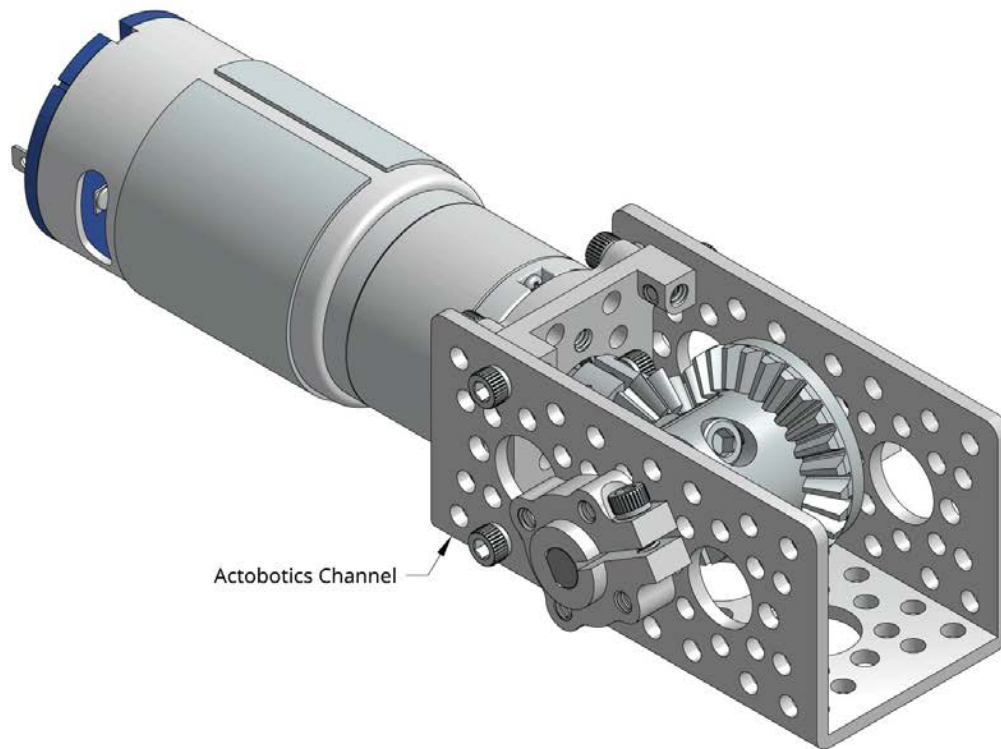


All parts shown can be purchased as 637223 or they can be purchased individually.



637223 Product Insight #1

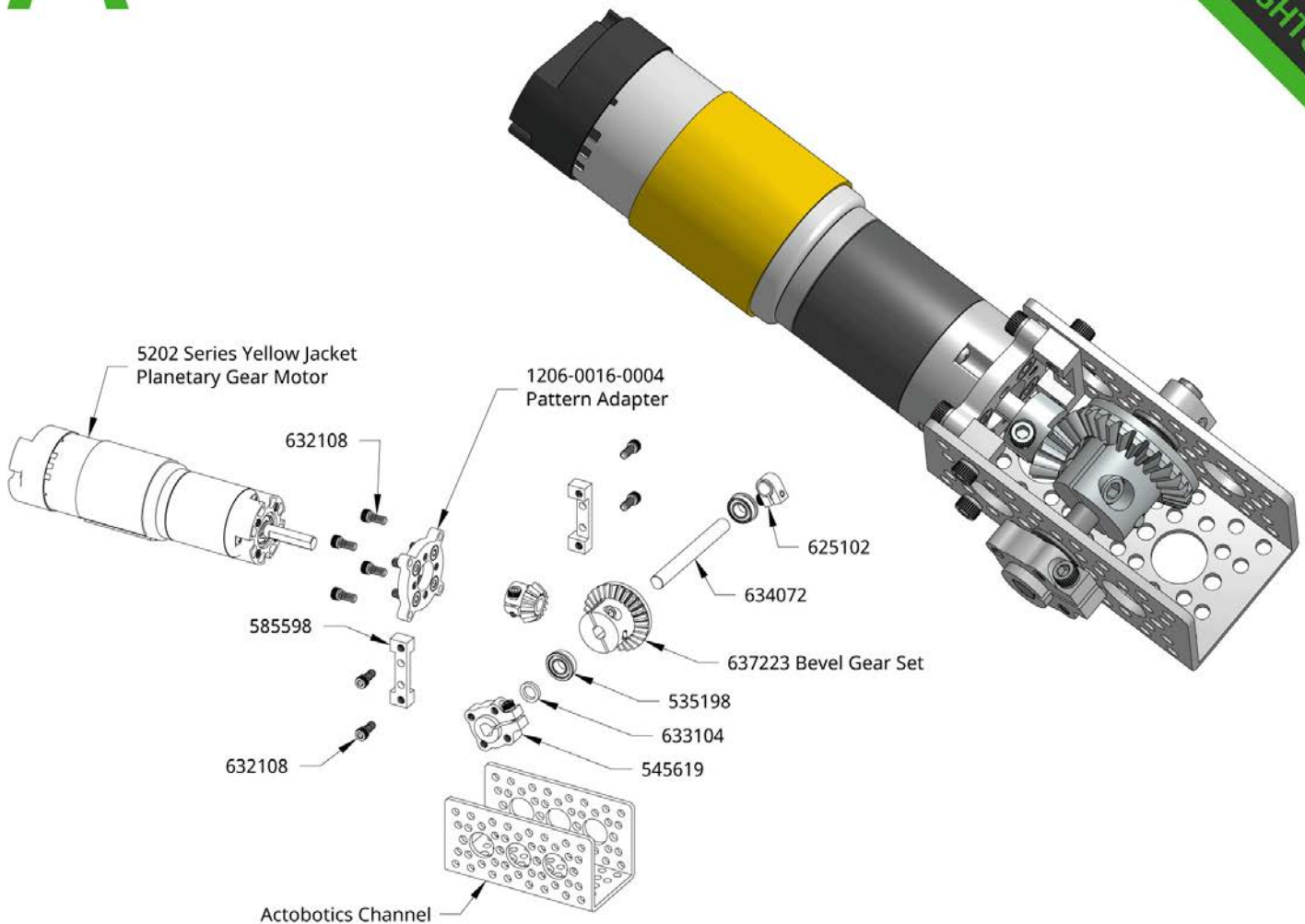
The 637223 Bevel Gear Set assembles easily with only four 632108 screws that are included with the kit. This kit includes a 6mm D-bore pinion gear, and a 1/4" D-bore hub mount gear. This gear set is a 2:1 ratio and pairs well with gear motors which have a 6mm D-shaft.



Item	Pcs	SKU	Description
A	1	555180	HD Premium Planetary Gear Motor Mount
B	8	632108	6-32 Screw, 5/16" Length
C	1	615458	13 Tooth, 6mm D-Bore, Shaft Mount Bevel Gear
D	1	625102	1/4" Flanged Aluminum Clamping Collar
E	2	535198	1/4" ID x 1/2" OD Flanged Ball Bearing
F	1	615460	26 Tooth, 1/4" Bore, Hub Mount Bevel Gear
G	1	545694	Steel 1/4" D-Bore Barrel Hub
H	1	634072	1/4" D-Shaft, 2.375" Length
I	1	633104	1/4" ID Shafting Spacer
J	1	545619	1/4" D-Bore Clamping Hub
K	1	N/A	Heavy Duty Premium Planetary Gear Motor
L	1	545360	Side Tapped Pattern Mount C
M	1	632106	6-32 Screw, 1/4" Length

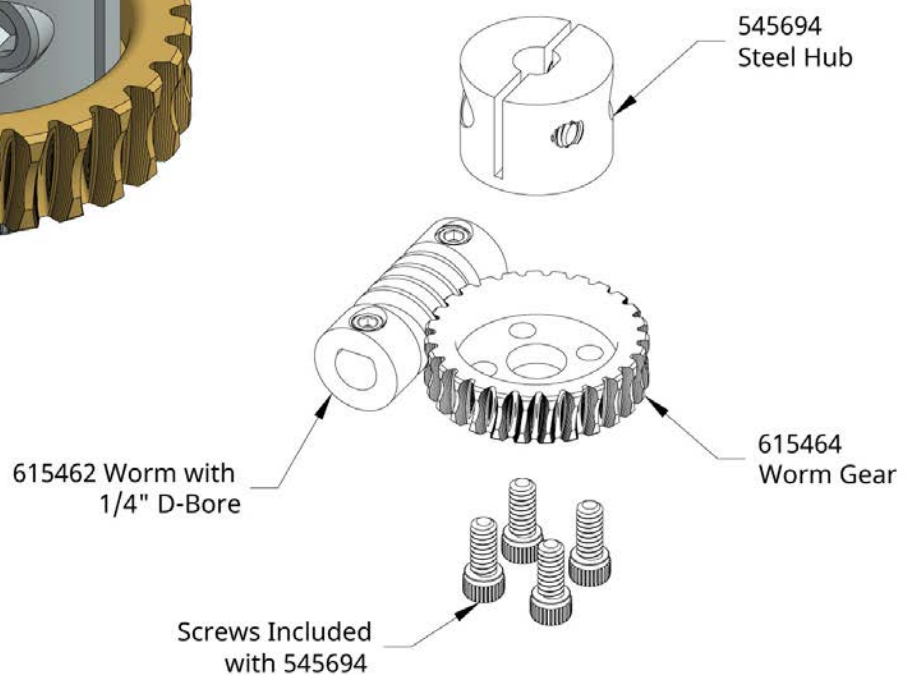
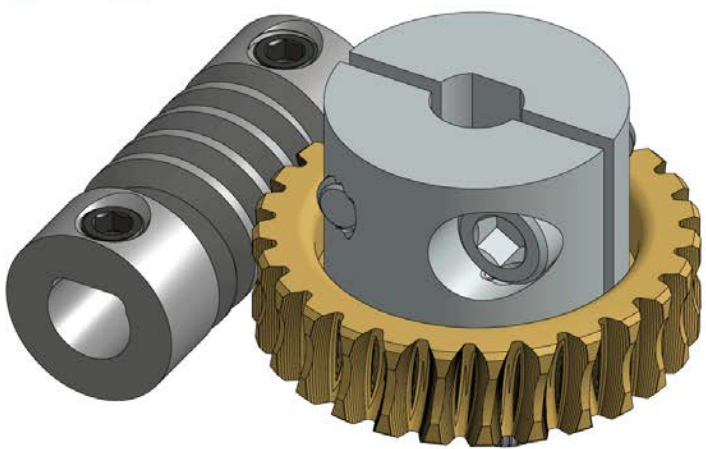
637223 Product Insight #2

This 2:1 ratio bevel gear assembly fits inside of Actobotics® Channel. The HD Premium Planetary Gear Motor is a little larger than the channel's inner dimensions so it is mounted on the end to a 545360 pattern mount.



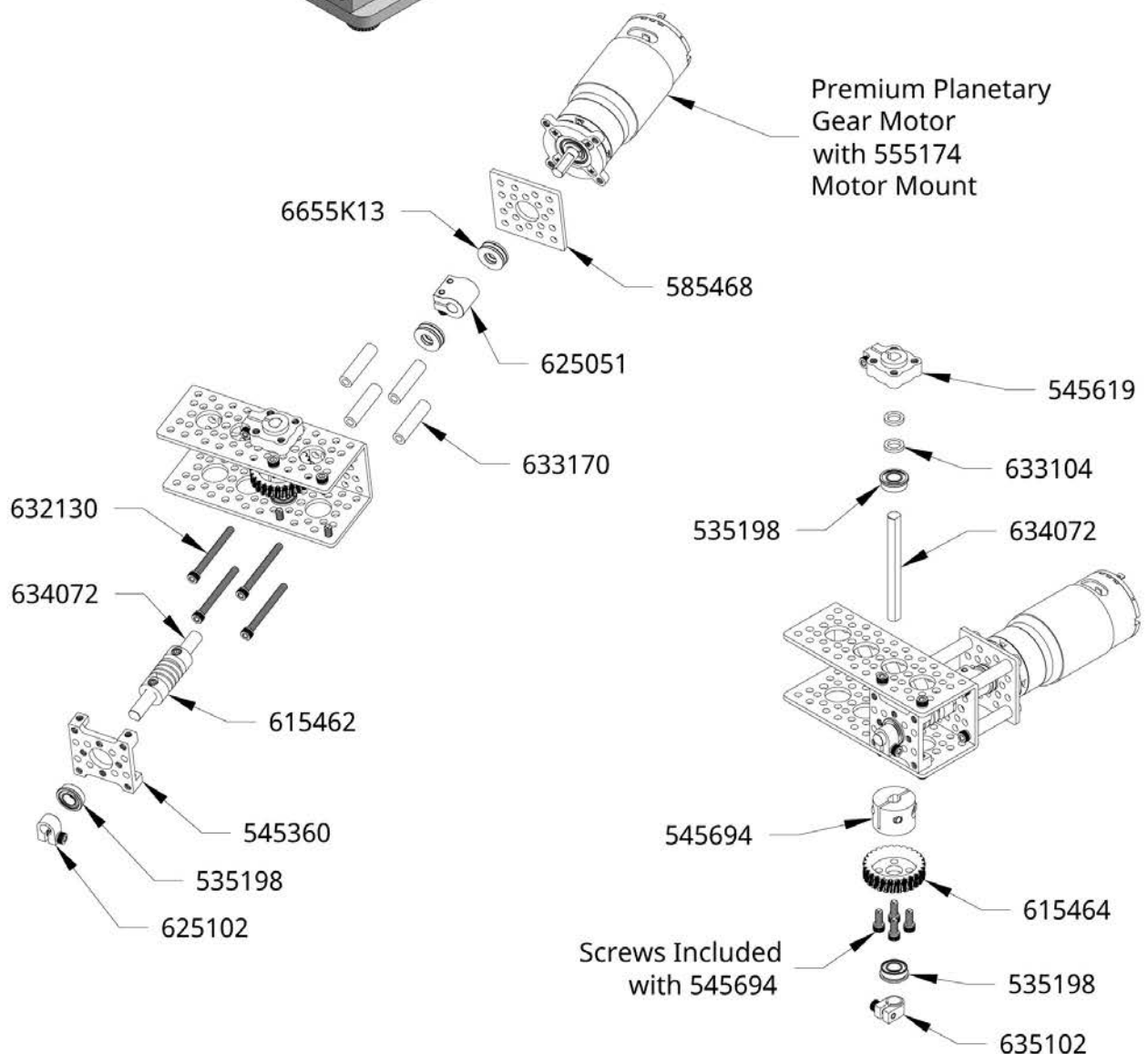
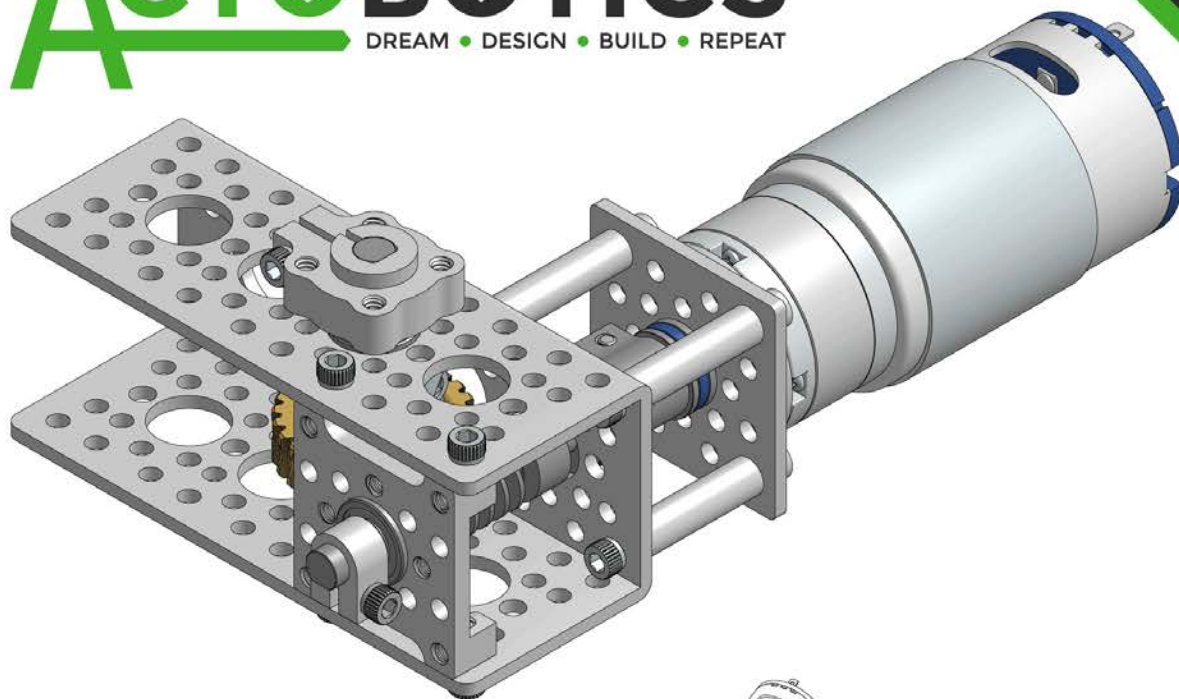
637223 Product Insight #3

This 2:1 ratio bevel gear set fits inside of Actobotics® Channel. The 5202 Series Yellow Jacket Planetary Gear Motor is larger than the channel's inner dimensions so it is mounted the open end of the channel. This creates a 90 degree angle gear box ideal for saving space on a chassis or project.



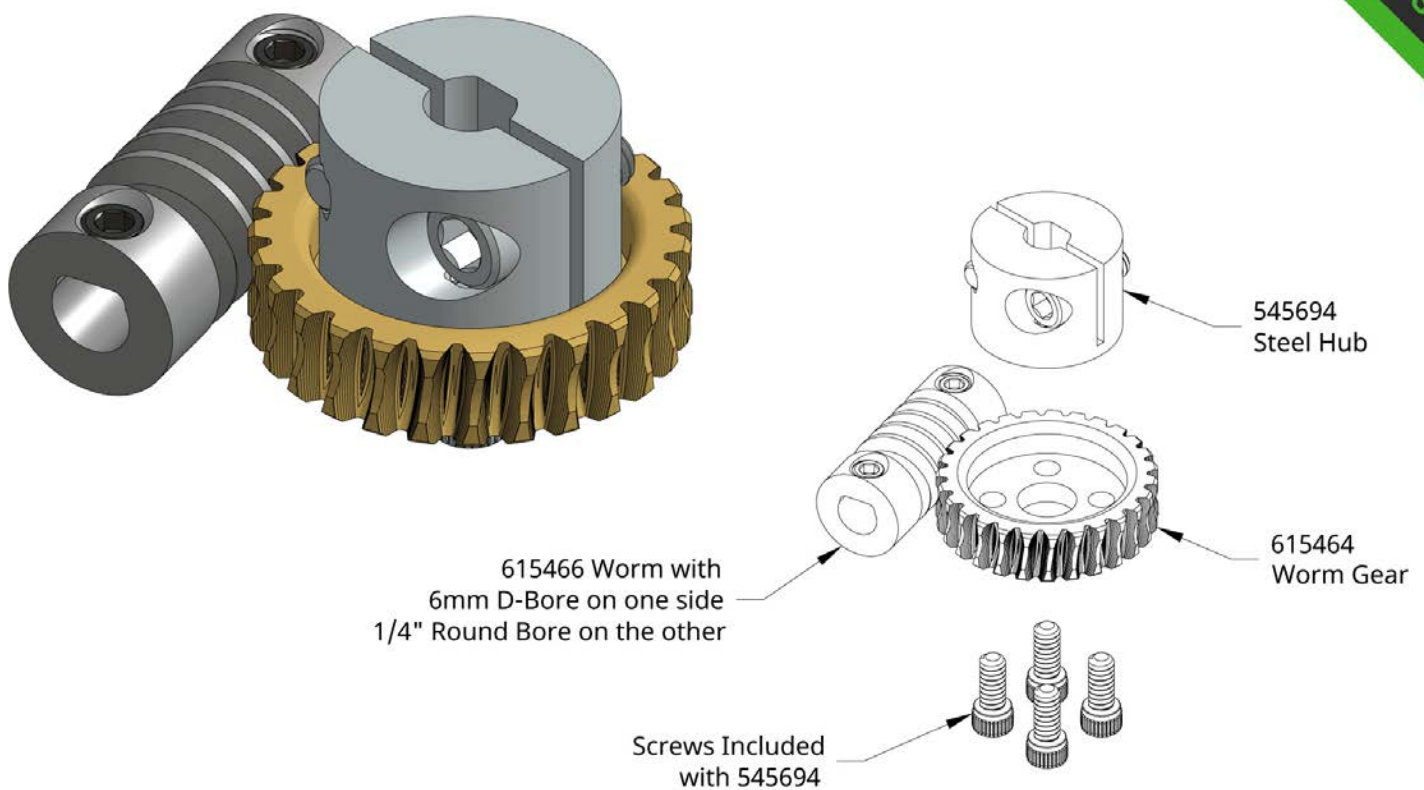
637225 Product Insight #1

This Worm Gear Set creates a 27:1 ratio. The hub is steel for maximum holding power. The worm has a 1/4" D-Bore all the way through.



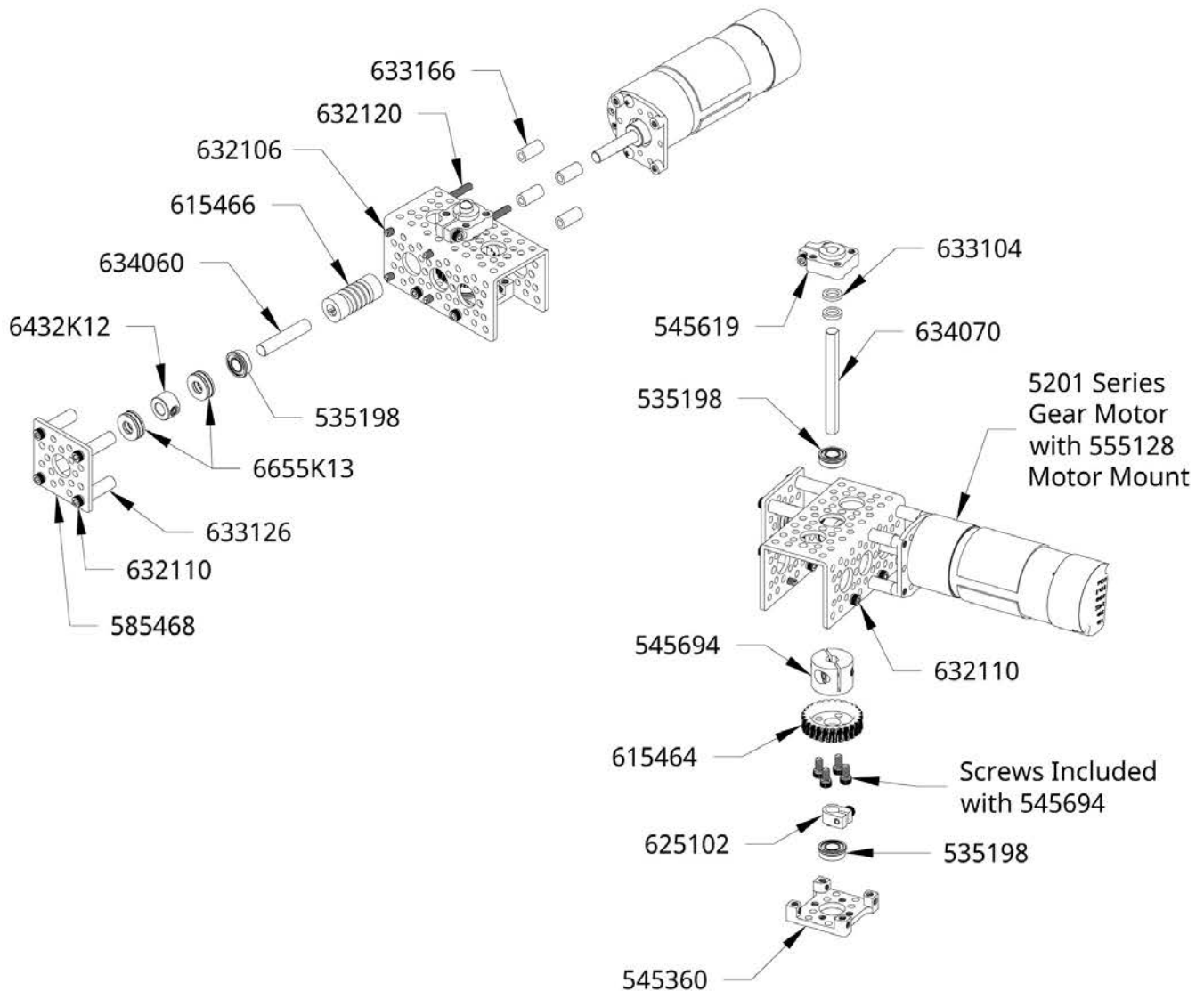
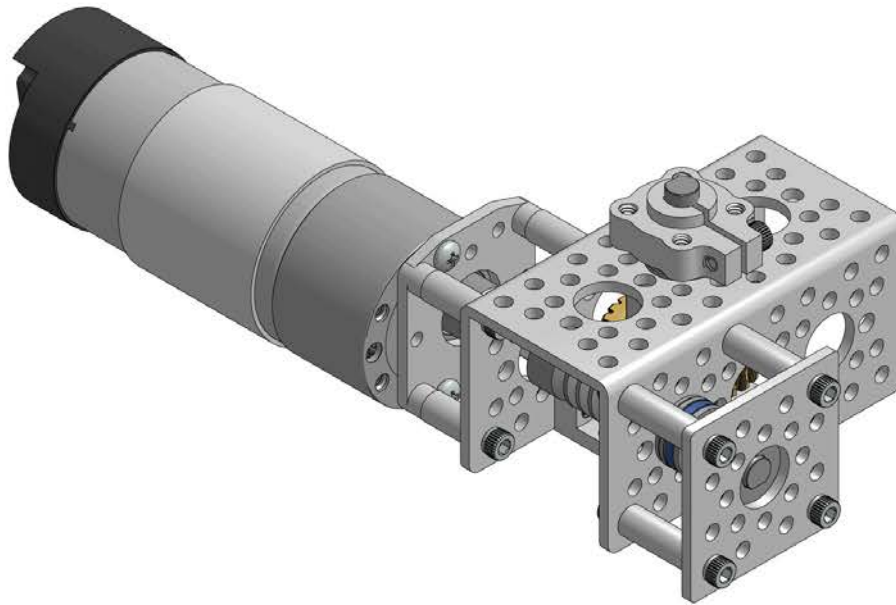
637225 Product Insight #2

This assembly uses the 637225 27:1 ratio Worm Gear Set to drive a clamping hub. Two thrust bearings support axial load. Due to the nature of worm gears, a setup like this cannot be back-driven even when powered off.



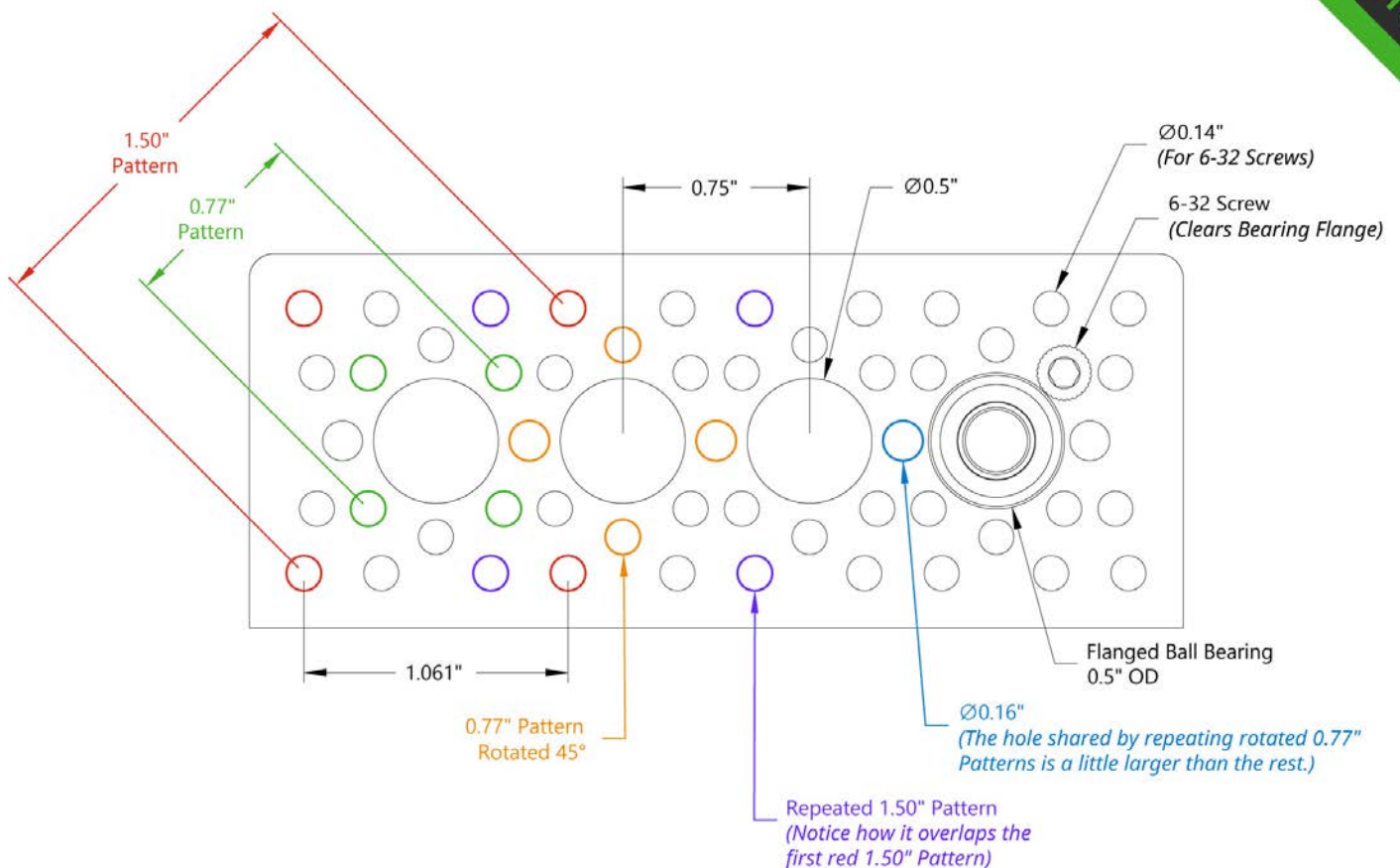
637226 Product Insight #1

This Worm Gear Set creates a 27:1 ratio. The hub is steel for maximum holding power. The worm has a 1/4" D-Bore on one side and a 6mm D-Bore on the other.



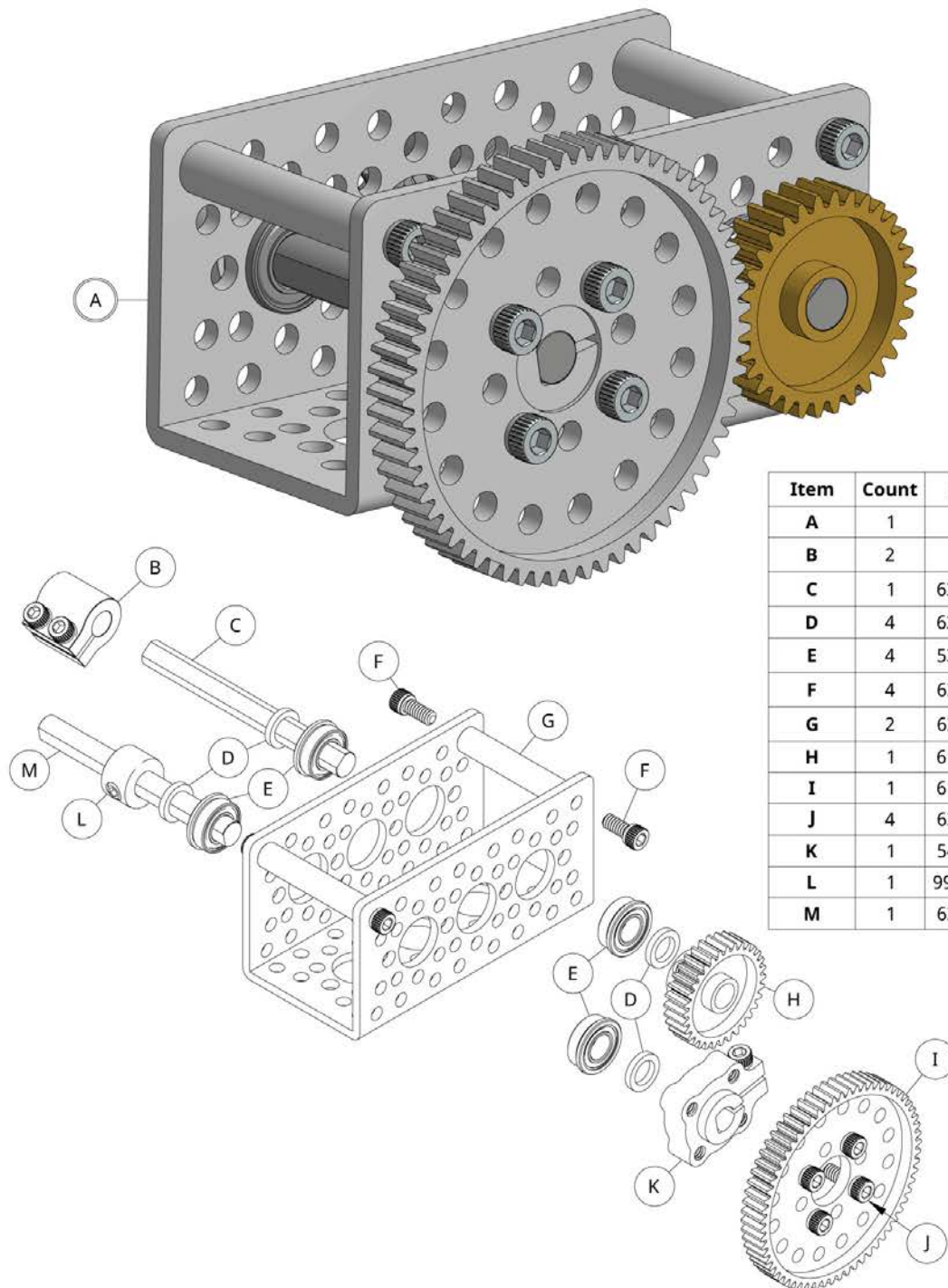
637226 Product Insight #2

This assembly uses the 637226 27:1 ratio Worm Gear Set to drive a clamping hub. Two thrust bearings on the exterior of the channel support axial load. Due to the nature of worm gears, a setup like this cannot be back-driven even when powered off.



Actobotics Channel Product Insight #1

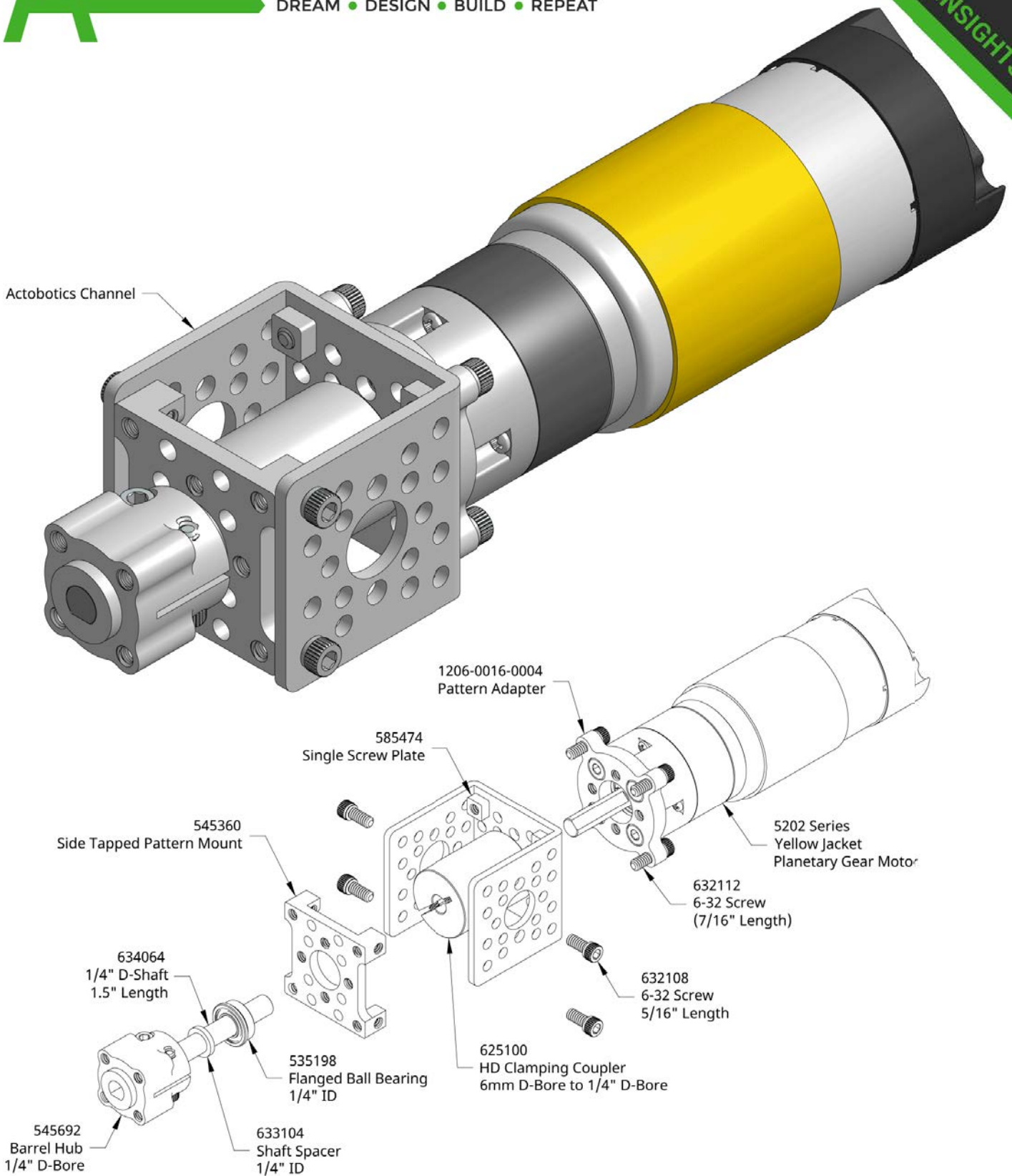
There are two primary mounting patterns baked into Actobotics Channel. The 0.77" Pattern and the 1.50" Pattern. They are measured across the center of a 1/2" hole. The 1/2" hole is also a cardinal pattern of Actobotics. It repeats every 3/4" linearly and allows you to easily and cost-effectively insert ball bearings into your build. The mounting thru-holes in channel and other Actobotics components are 0.14" in diameter because the Actobotics build system uses 6-32 as the designated screw size.



Item	Count	SKU	Description
A	1		Actobotics Channel
B	2		Clamping Shaft Coupler
C	1	634074	1/4" D-Shaft, 2.5" Length
D	4	633104	Shaft Spacer, 1/4" ID
E	4	535198	Ball Bearing, 1/4" ID, 1/2" OD
F	4	632108	6-32 Screw, 5/16" Length
G	2	633136	6-32 Standoff, 1.32" Length
H	1	615254	32T Pinion Gear, 1/4" Bore
I	1	615194	64T Hub Mount Gear
J	4	632110	6-32 Screw, 3/8" Length
K	1	545619	Clamping Hub, 1/4" D-Bore
L	1	9946K11	Set Screw Collar, 1/4" Bore
M	1	634072	1/4" D-Shaft, 2.375" Length

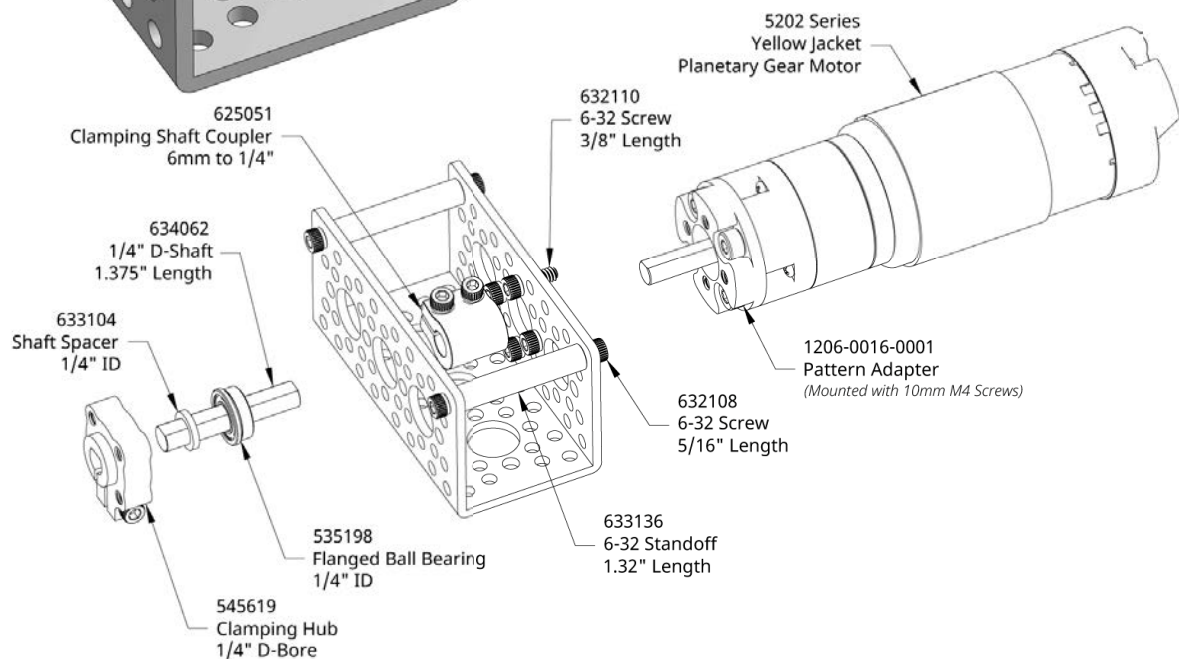
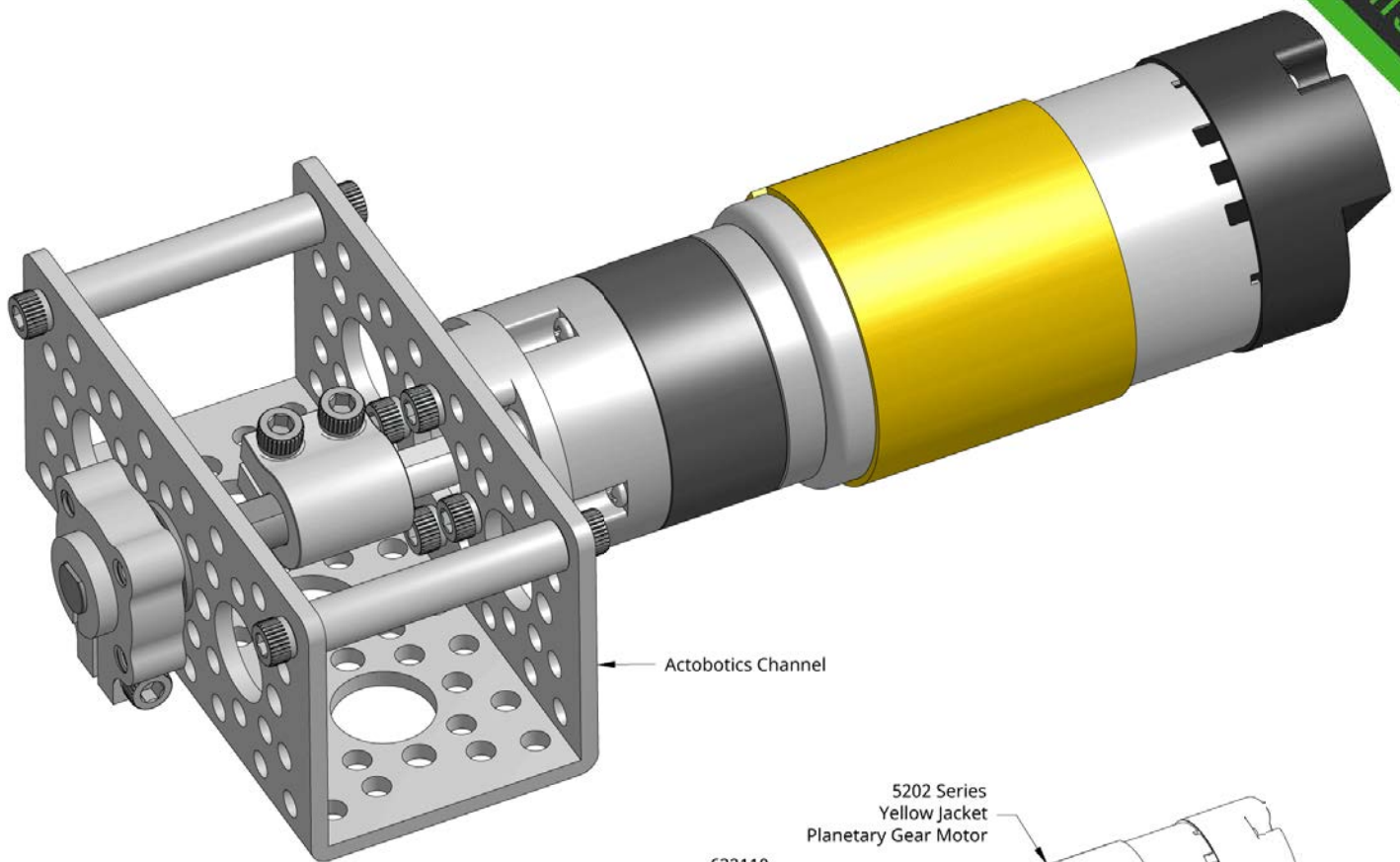
Actobotics Channel Product Insight #2

The 1/2" holes on Actobotics Channel allows you to easily make perfectly meshed, ball bearing supported, gear trains without the need for a machine shop.



Actobotics Channel Product Insight #3

The open end of Actobotics channel (the top of the "U") can be boxed in with a Side Tapped Pattern Mount. This gives a strong mounting point and/or bearing support location.



Actobotics Channel Product Insight #4

Actobotics Channel is great for assemblies like this, where you need to mount a motor on one side and couple to the shaft of your choice in the middle. The final output shaft is then supported by a ball bearing and is a great place to fasten a hub or pinion gear. We often recommend using 1.32" length standoffs inside the channel nearby wherever shafting is passing through. This helps give you a rigid and strong setup.



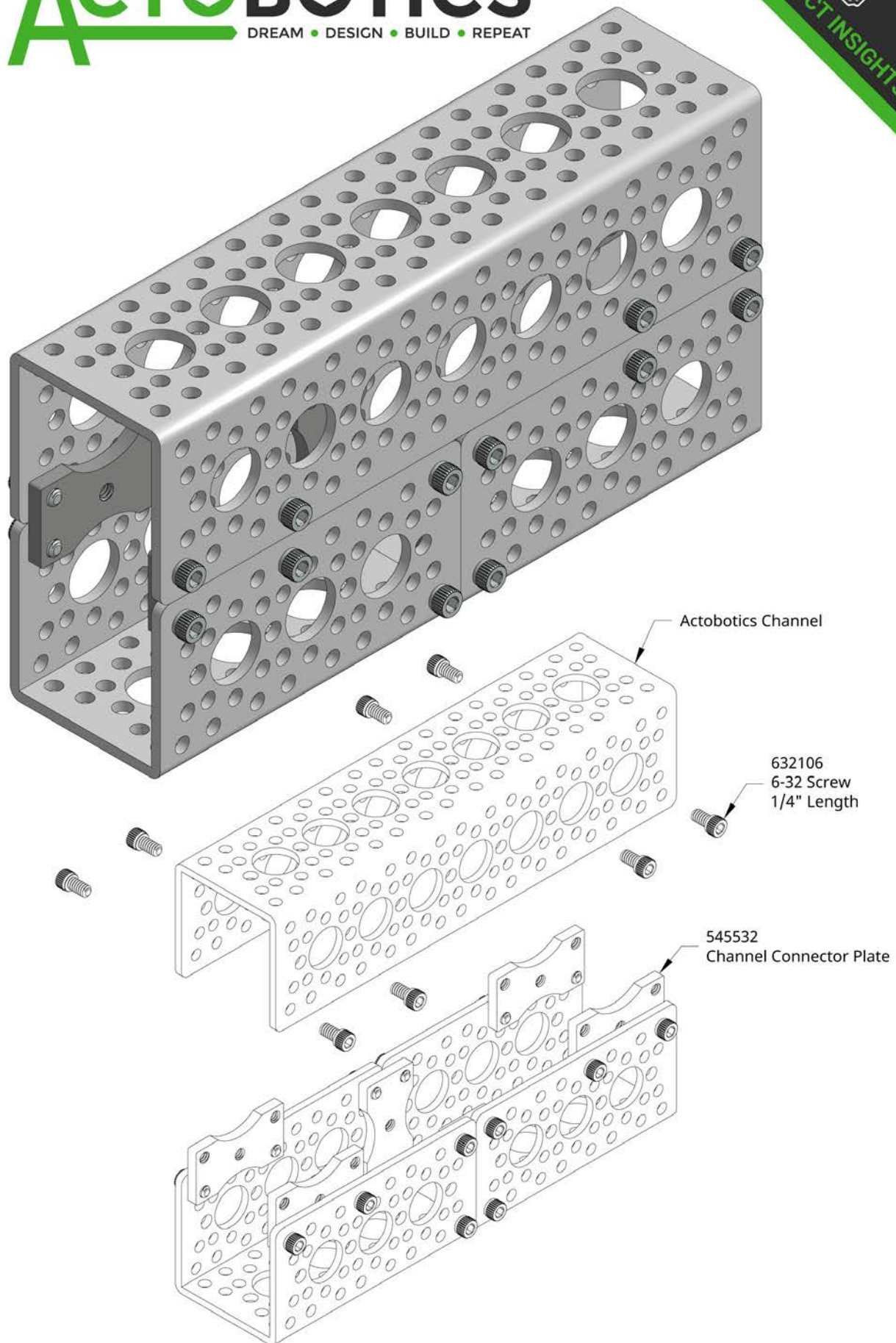
545360
Side Tapped Pattern Mount

632104
6-32 Screw
3/16" Length

632108
6-32 Screw
5/16" Length

Actobotics Channel Product Insight #5

Two pieces of Actobotics Channel can be easily mounted perpendicular to each other using a Side Tapped Pattern Mount (545360).

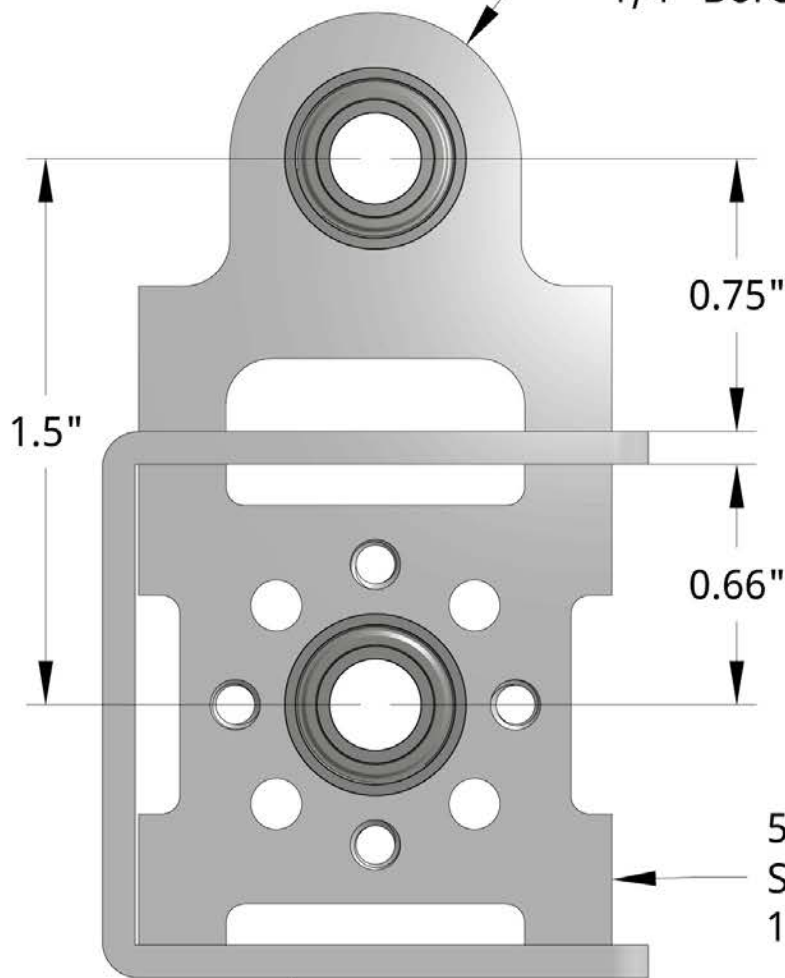


Actobotics Channel Product Insight #6

Actobotics Channel can be connected open-end to open-end via threaded Channel Connector Plates. This is referred to as "boxing channel". This assembly also shows the concept of staggering the seams on the top row from the seams on the bottom row. Boxing channel is generally done with longer lengths and is used for very stout builds.

535150

Bottom Tapped Pillow Block
1/4" Bore



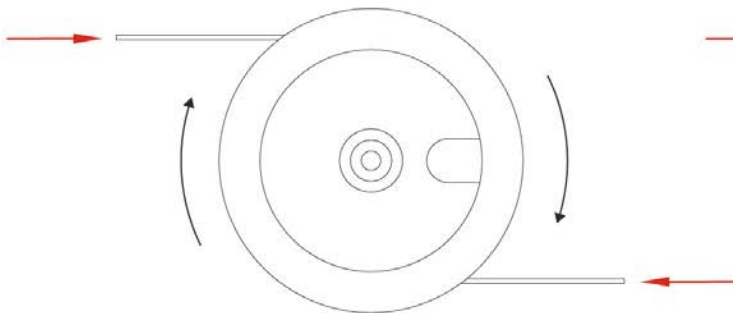
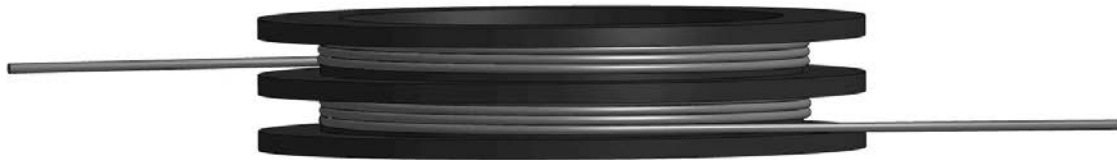
535130

Side Tapped Pillow Block
1/4" Bore

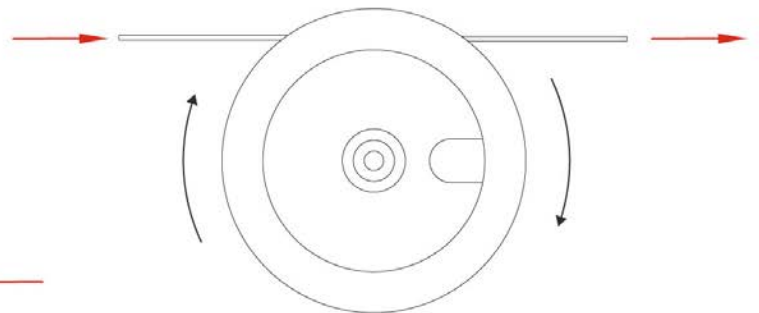
Actobotics Channel

Actobotics Channel Product Insight #7

Some parts (such as the Bottom Tapped Pillow Blocks) are "Outside Channel Parts" and have a natively on-pattern "deck height" of 0.75 inches. Other parts (such as the Side Tapped Pillow Blocks) are "Inside Channel Parts" and have a deck height which factors in the channel wall thickness to keep the center-to-center distance on-pattern.



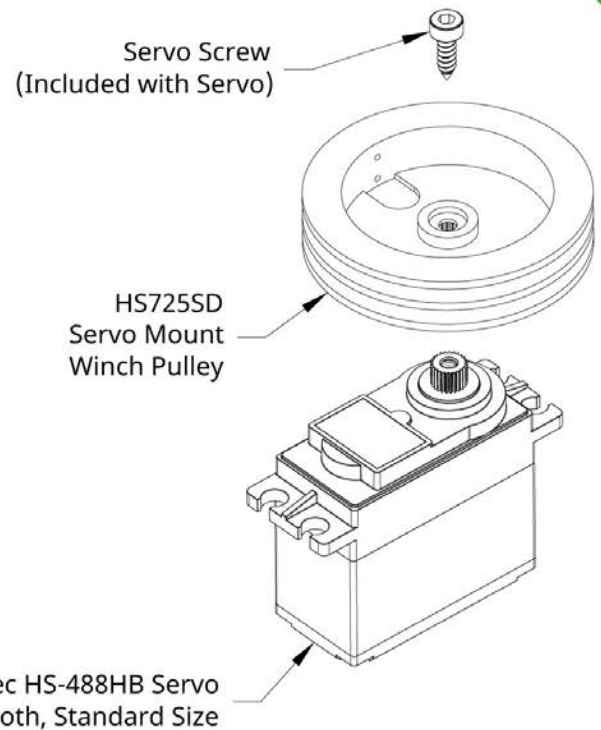
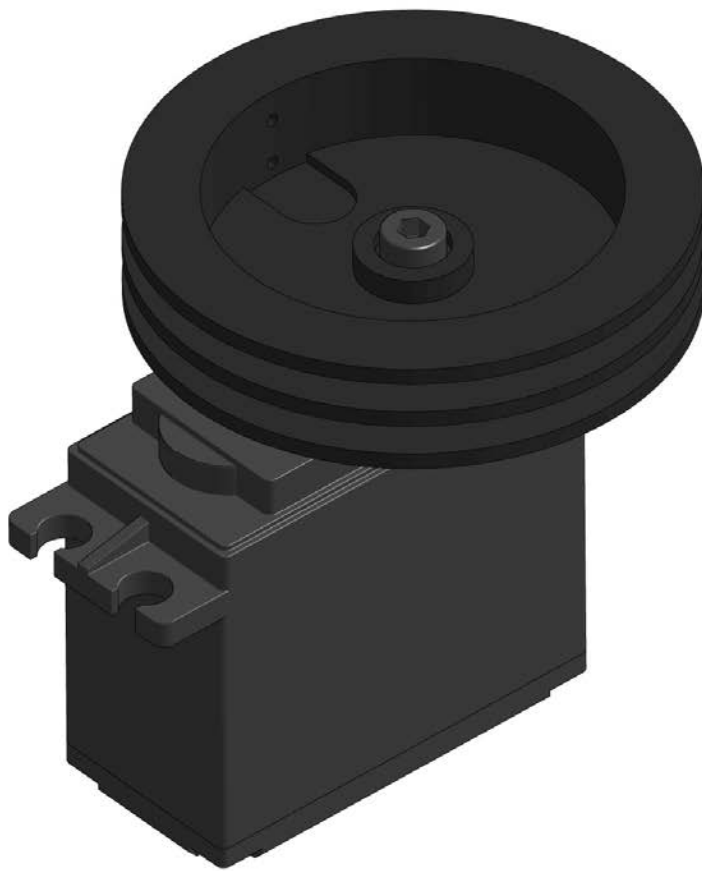
Spooling up Both Lines



Spooling one, and Unspooling the Other

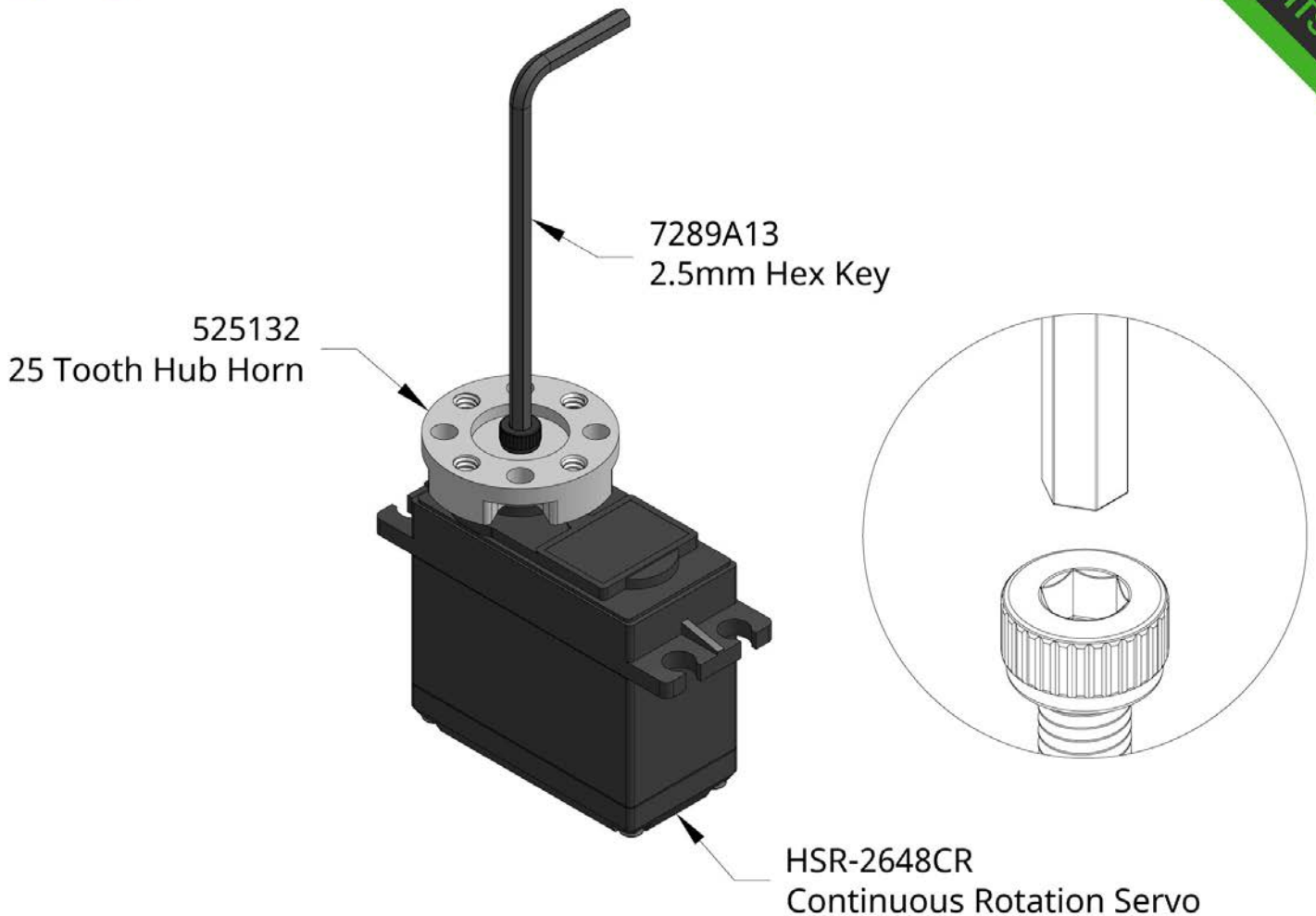
HS725SD Product Insight #1

The HS725SD Servo winch pulley has a dual spool meaning it can run two separate cables simultaneously. Depending on how they are spooled, this pulley can spool and unspool both simultaneously or spool one while unspooling the other.



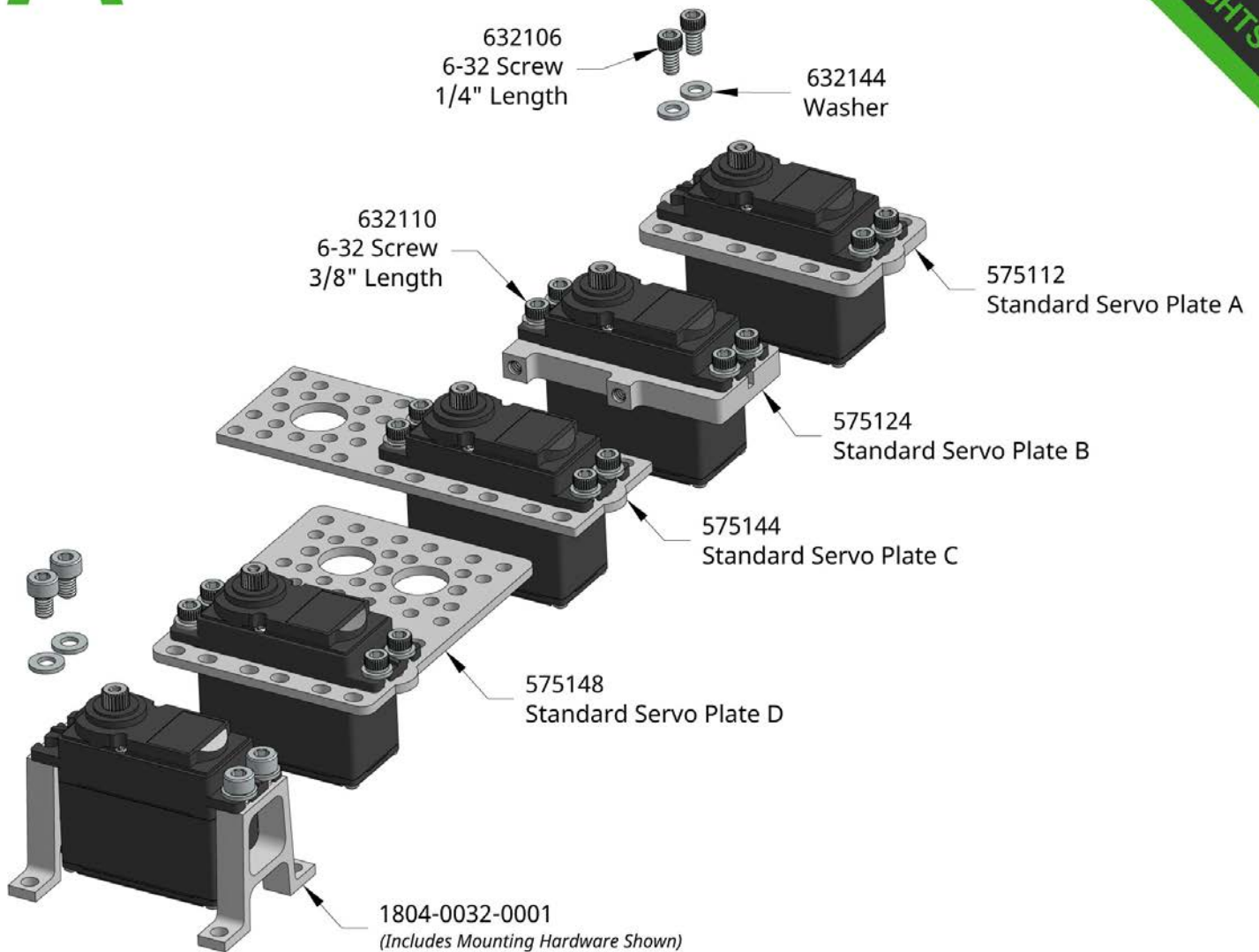
HS725SD Product Insight #2

The HS725SD Servo Winch Pulley can be fastened directly to a servo which has a 25 tooth spline. This means it is compatible with many of the Hitec servos (check servo specs to confirm compatibility).



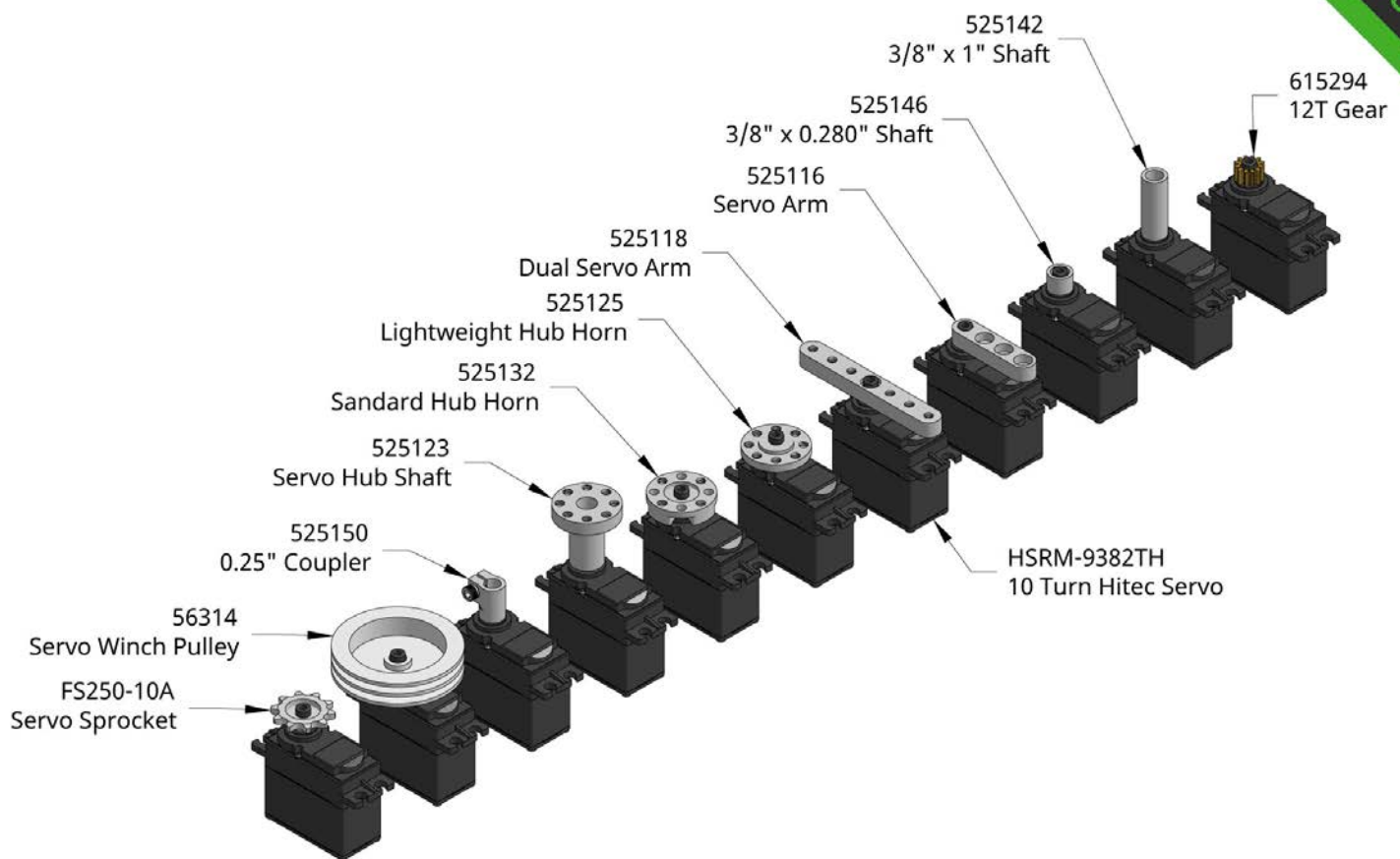
HSR-2648CR Product Insight #1

The HSR-2645CR spline has an M3 thread and comes with an M3 x 10mm length socket head servo screw. The larger size, compared to the M2.6 screws found on many servos, provides superior holding power to keep the servo horn on. The socket style head is much easier to use than the more common phillips head servo screw as you can install and remove the screw with a 2.5mm hex key without concern of stripping or rounding out the drive.



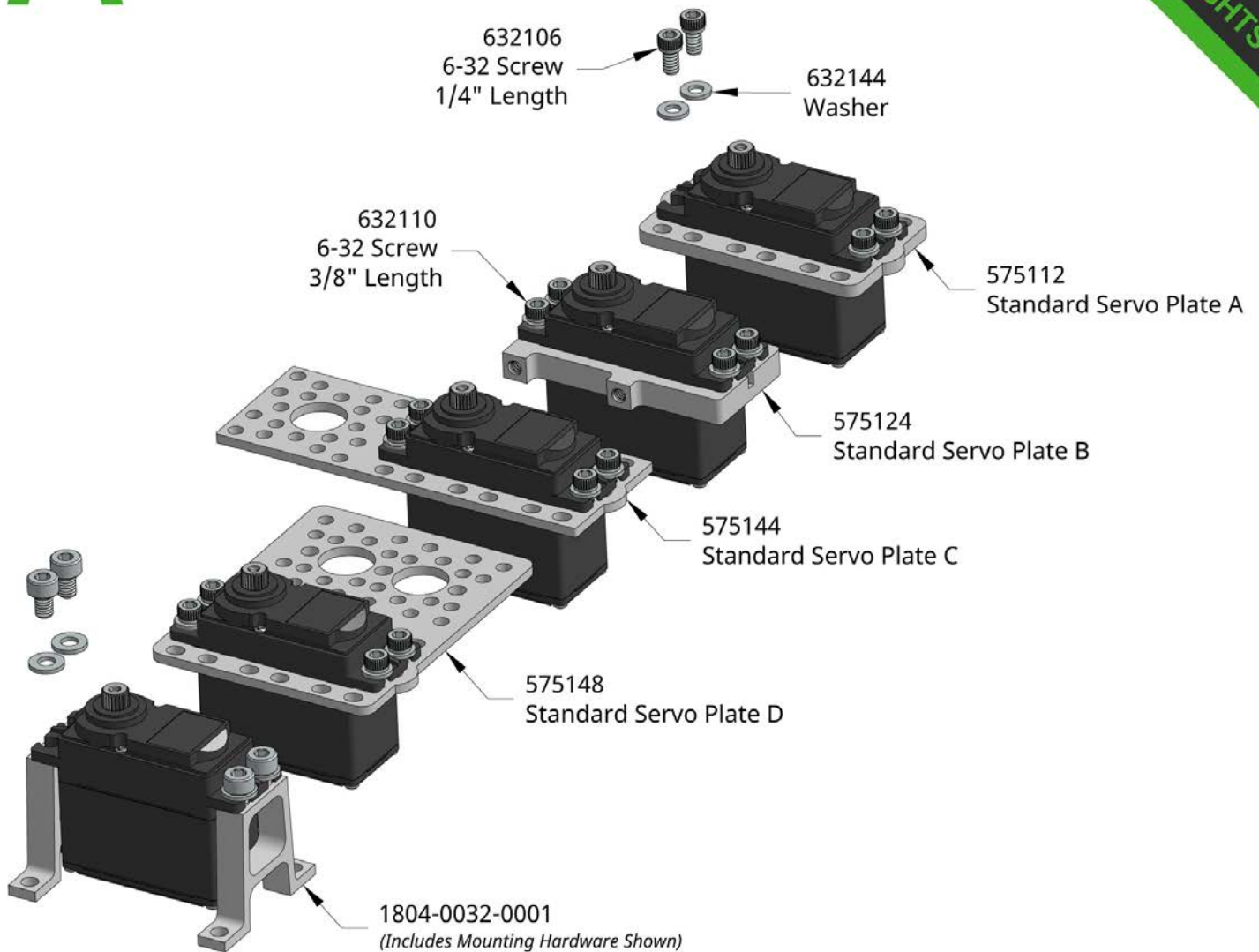
HSRM-9382TH Product Insight #2

We offer a wide range of mounting options for standard size servos like the HSRM-9382TH. Whether you are mounting your servo into Actobotics channel or simply need to fasten it down to a piece of plywood, these options make it easy.



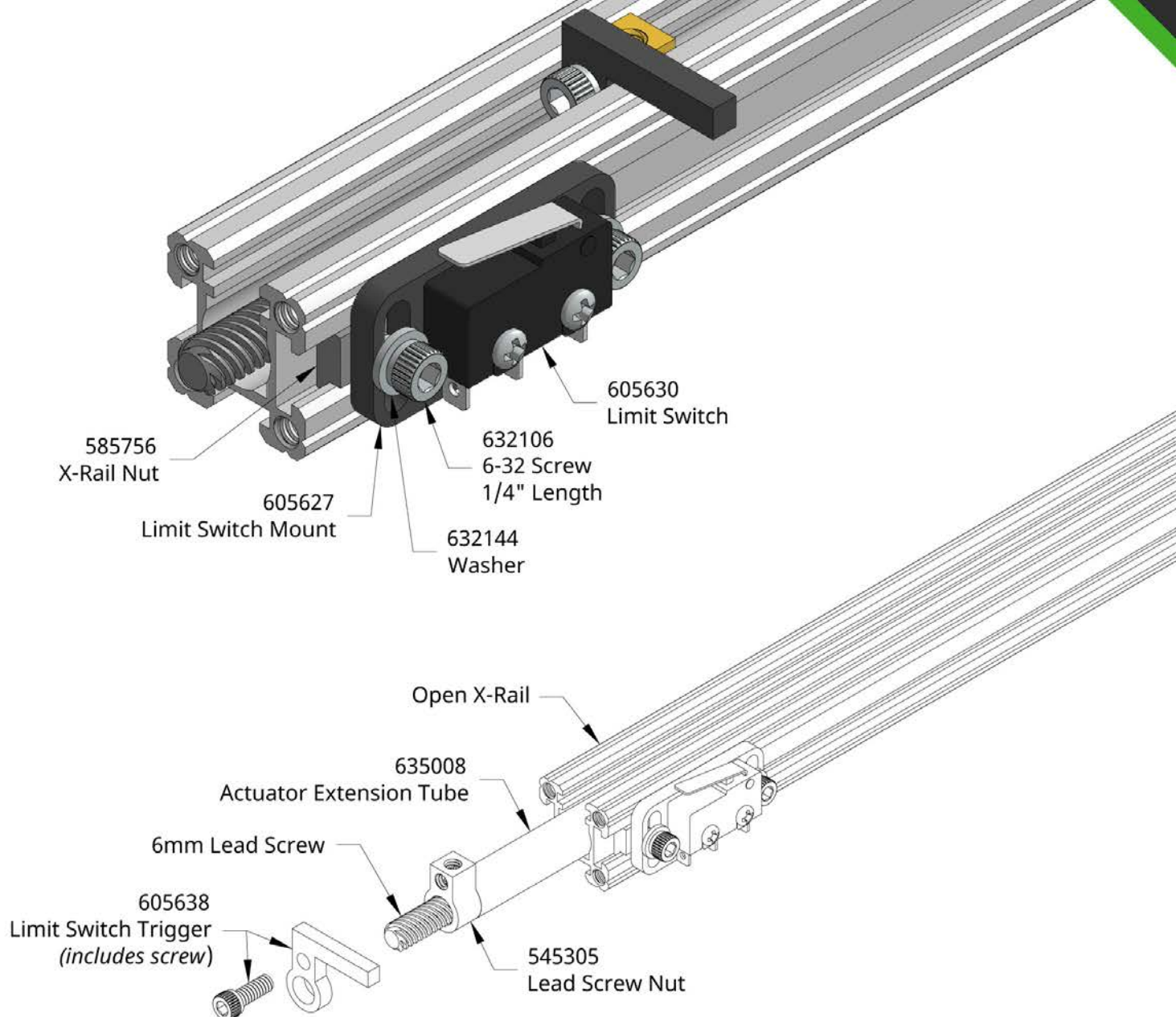
HSRM-9382TH Product Insight #1

The Hitec HSRM-9382TH has a standard 25T spline and is compatible with any 25T product. Using the included black oxide socket head screw included with every one of the 25T spline Actobotics components can be attached to the servo. Some of these options include but are not limited to: gears, hubs, couplers, pulleys, wheels, and sprockets.



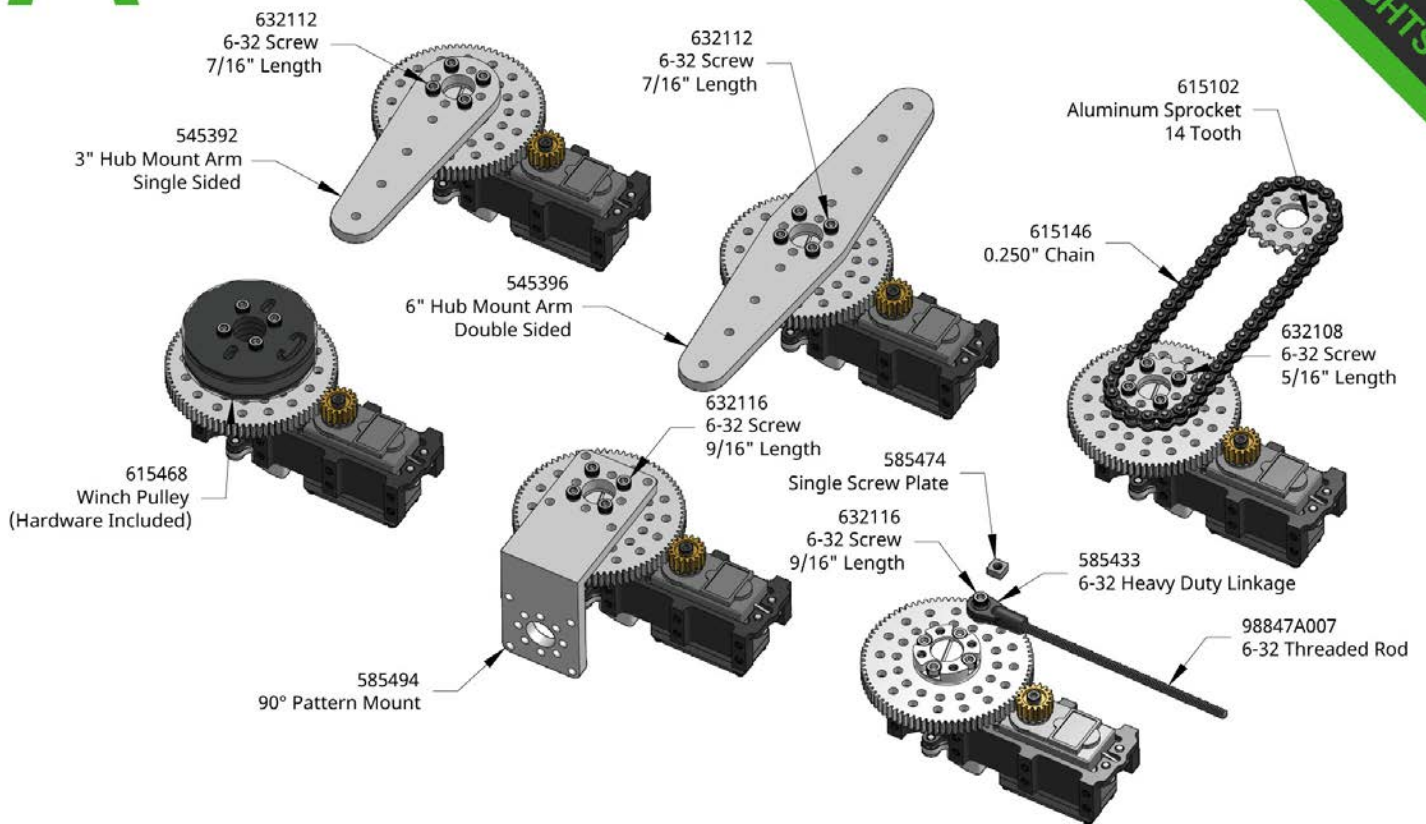
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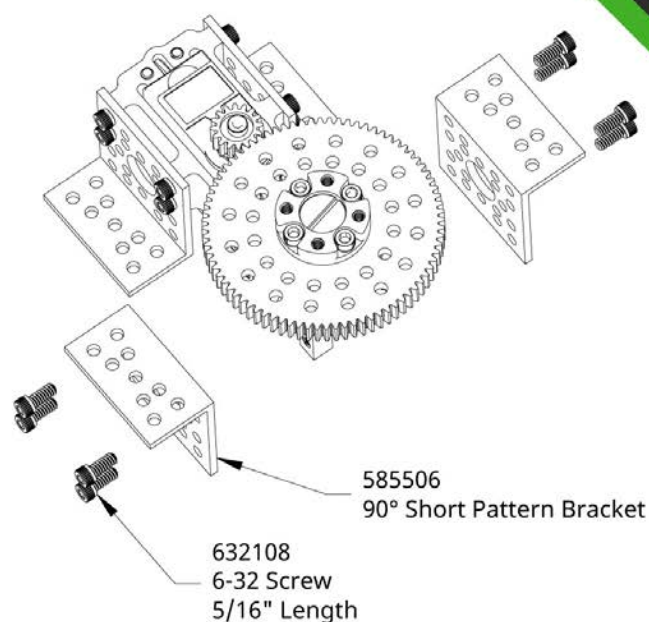
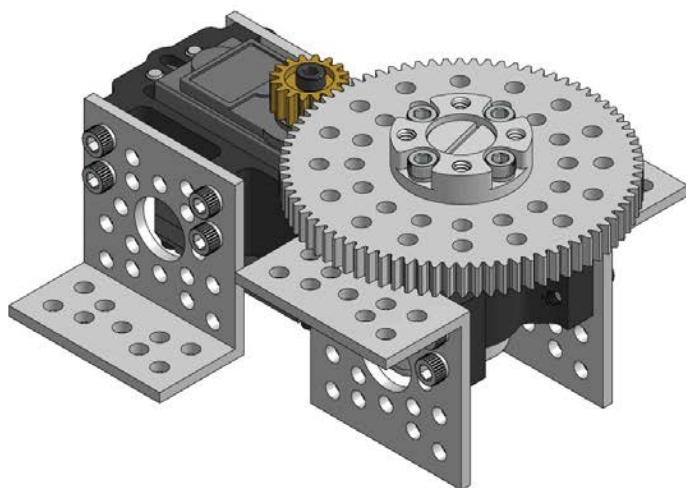
Open X-Rail Product Insight #1

The open portion of the Open X-Rail not only restricts the 545305 Lead Screw Nut from rotating (necessary to create linear movement) but it also provides an exit for the 605638 Limit Switch Trigger. This allows the trigger to reach out and make contact with a limit switch.



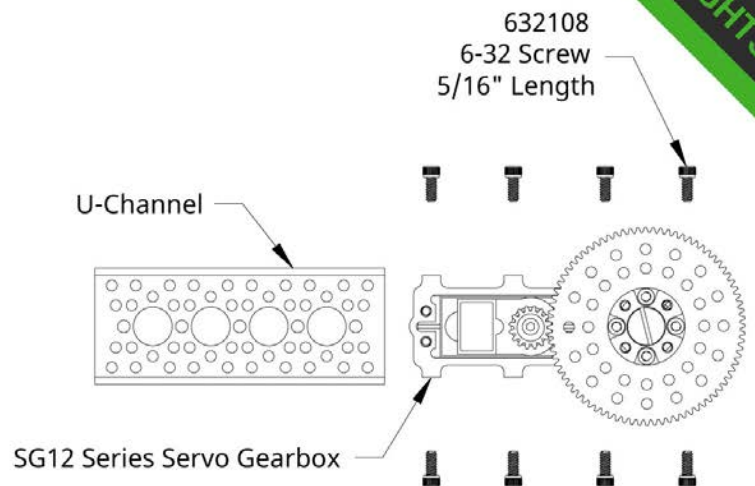
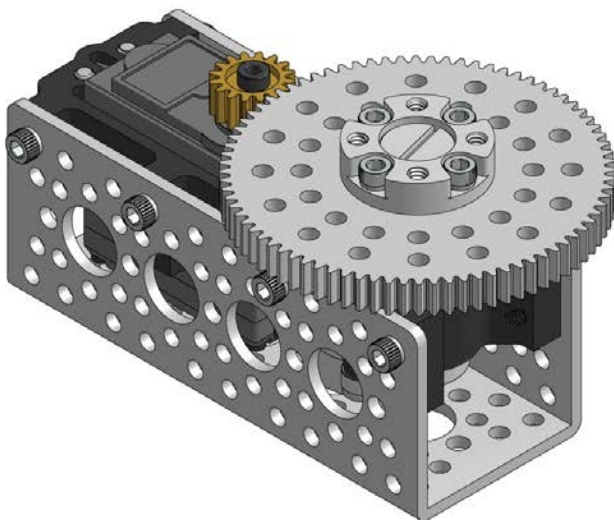
SG12 Series Product Insight #1

The SG12 Series of Servo Gearboxes utilize a 0.77" hub pattern on the output gear, which makes tapping into the monstrous torque of your gearbox easy. The large number of on-pattern holes on the output gear of your gearbox gives you even more options for attachments.



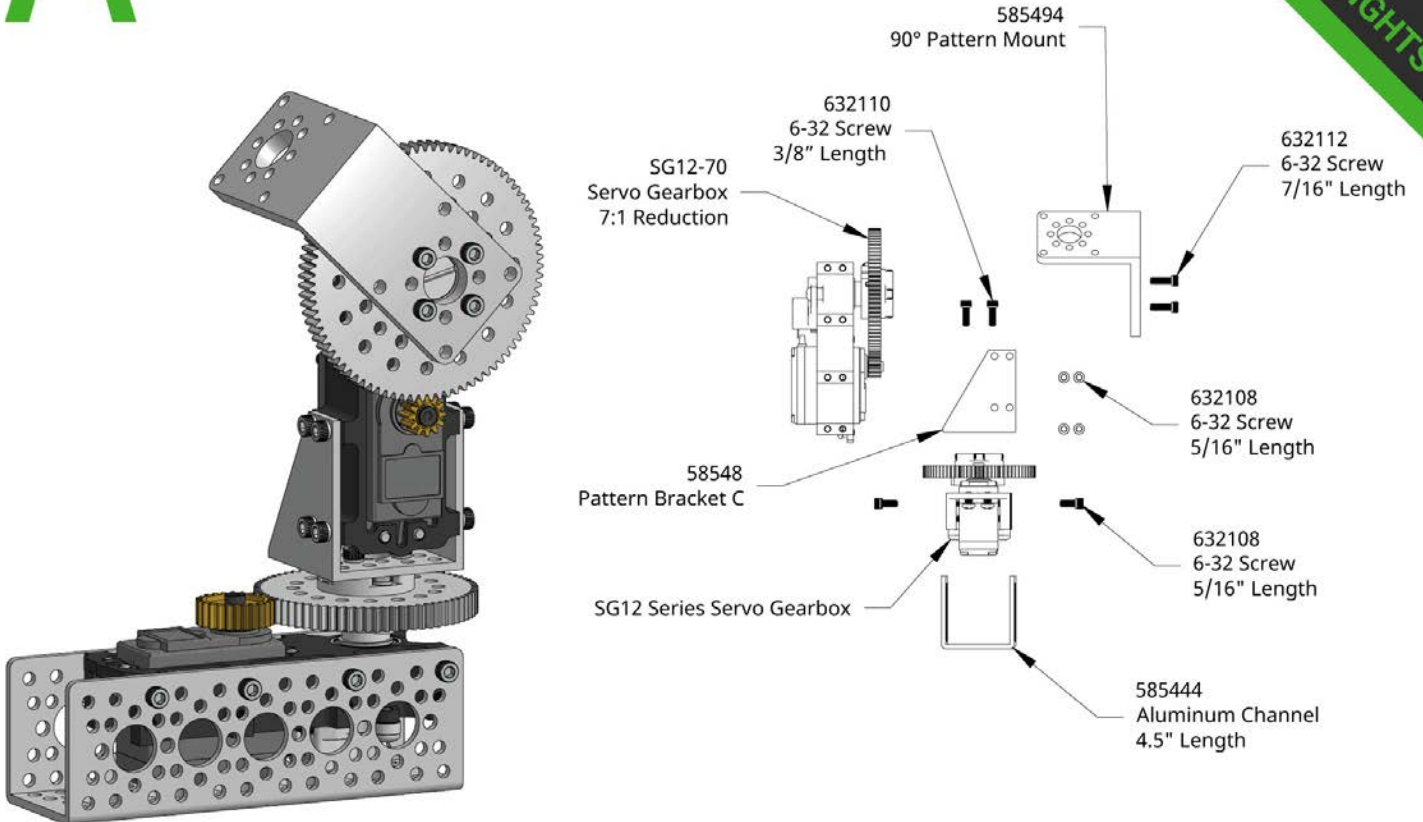
SG12 Series Product Insight #2

If you're looking to significantly expand the number of mounting options at your disposal with a Servo Gearbox, look no further than the 585506 Short Pattern Bracket. It can add either a top or bottom mounting flange to your gearbox, depending on the orientation of the 585506.



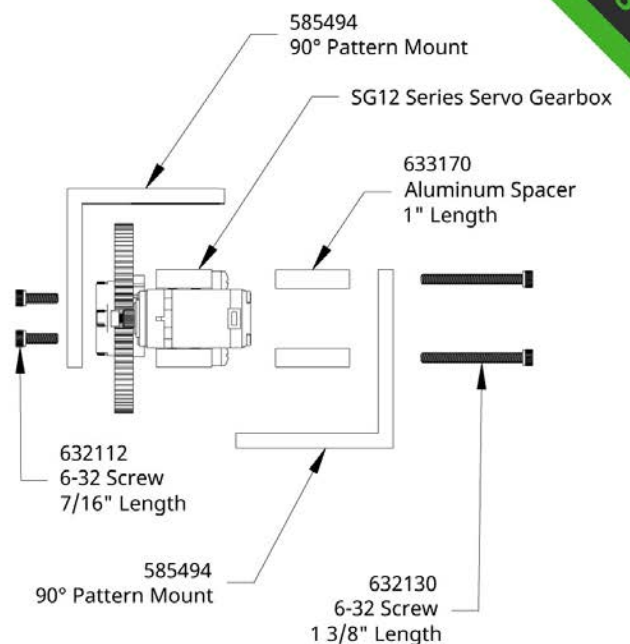
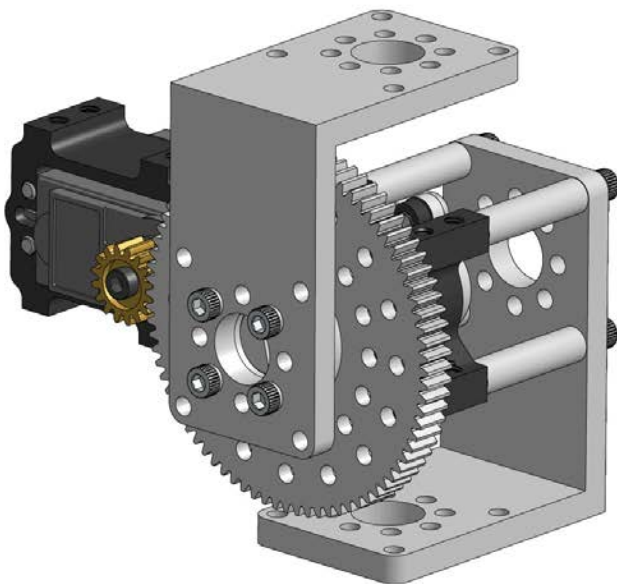
SG12 Series Product Insight #3

The SG12 Series Servo Gearbox is designed around the core of the Actobotics line, U-Channel. Combining those two parts creates a very versatile system that can be mounted on any of the three sides.



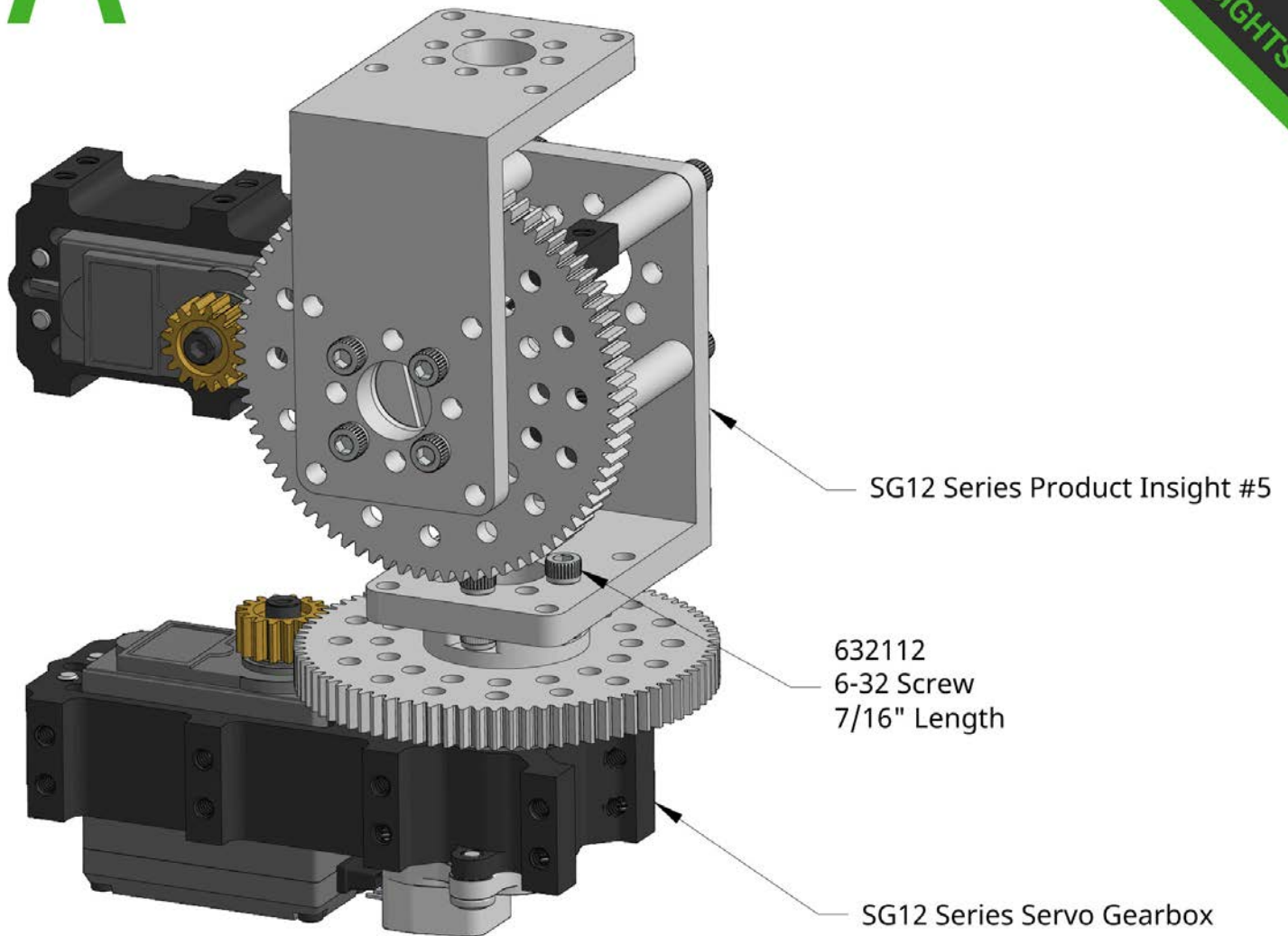
SG12 Series Product Insight #4

Adding a second SG12 Series Servo Gearbox allows you to create an incredibly robust pan-and-tilt system with an immense amount of torque at its disposal. The 90° Pattern Mount gives you easy mounting for anything from a paintball gun to a slow-mo camera.



SG12 Series Product Insight #5

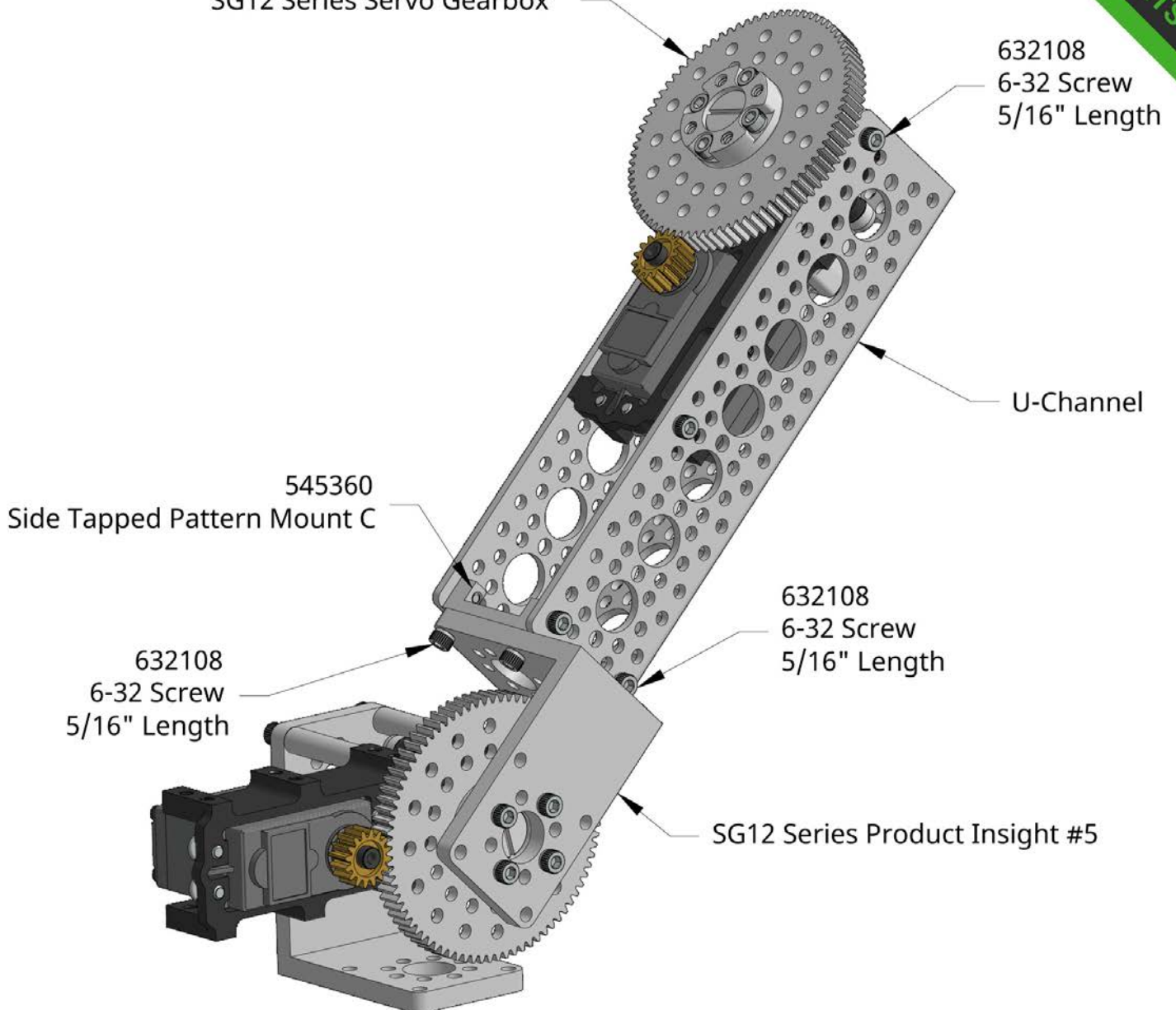
The 595494 90 Pattern Mount is an incredibly versatile part to add to your Servo Gearbox toolkit, and it can be used to create robust and powerful tilt systems with your SG12 Series Servo Gearbox.



SG12 Series Product Insight #6

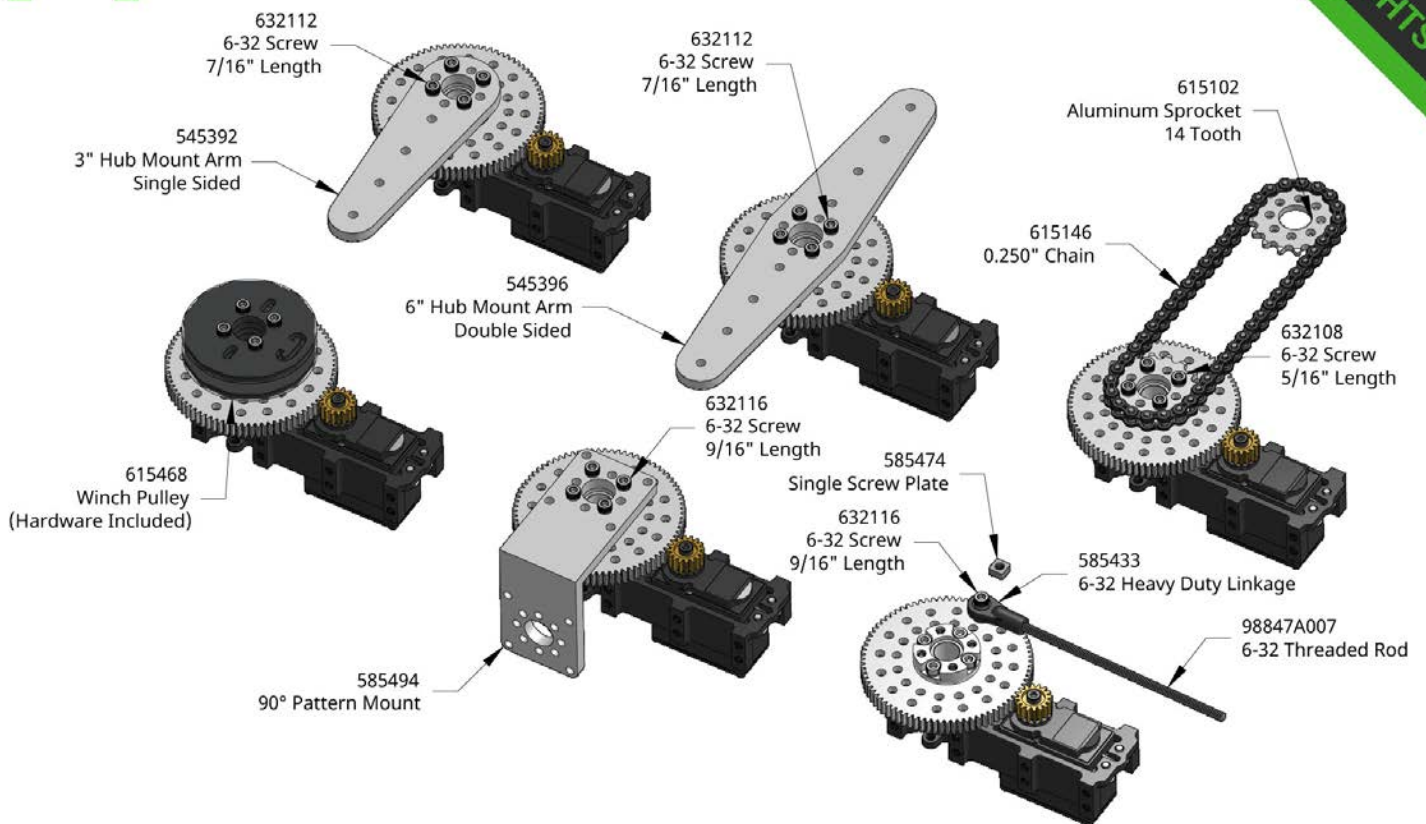
Creating a compact pan and tilt system is easy with the SG12 Series Servo Gearbox. Combining the assembly detailed in Product Insight #5 with another Servo Gearbox can create a powerful pan-and-tilt setup.

SG12 Series Servo Gearbox



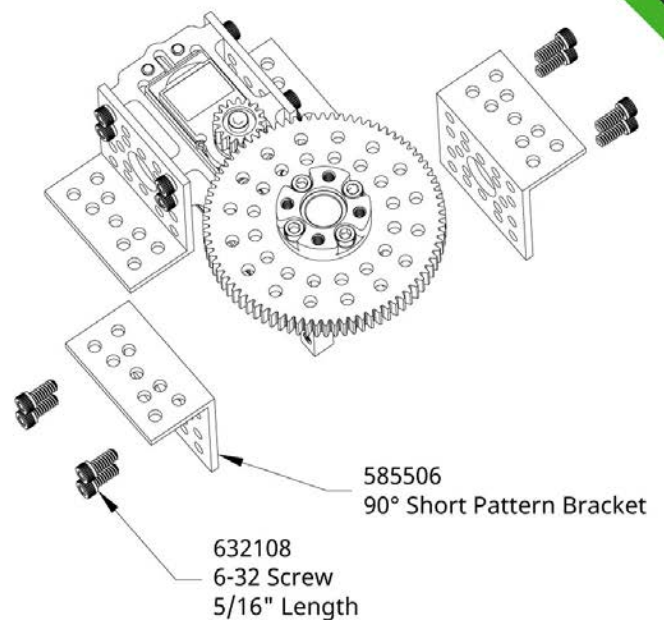
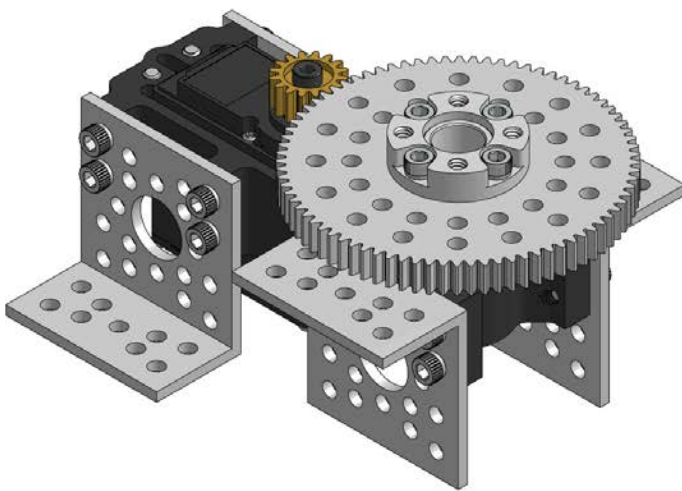
SG12 Series Product Insight #7

Affixing Actobotics components to the tilt system created with the SG12 Series Product Insight #5 can be done quickly and efficiently using the 0.770" and 1.5" hole patterns on the output of the 90° Pattern Mount.



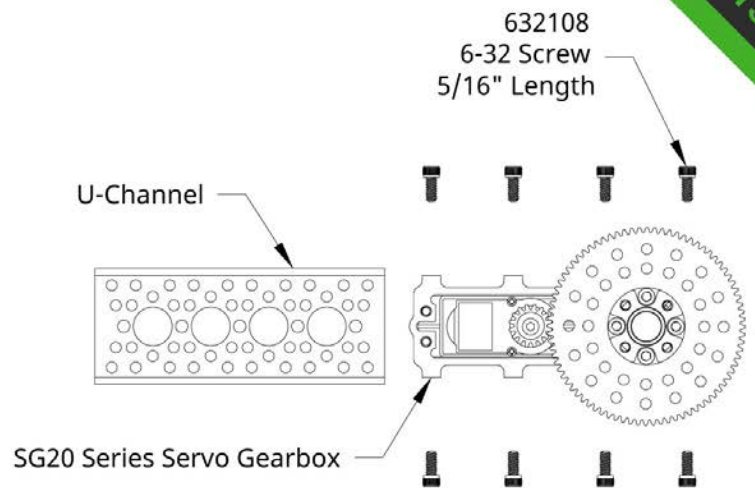
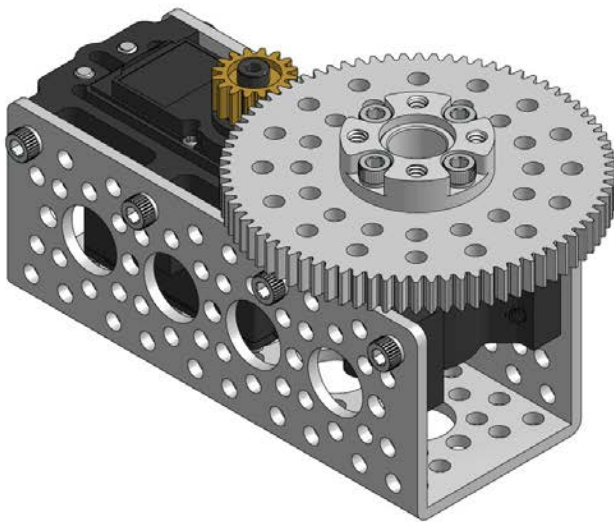
SG20 Series Product Insight #1

The SG20 Series of Servo Gearboxes utilize a 0.77" hub pattern on the output gear, which makes tapping into the monstrous torque of your gearbox easy. The large number of on-pattern holes on the output gear of your gearbox gives you even more options for attachments.



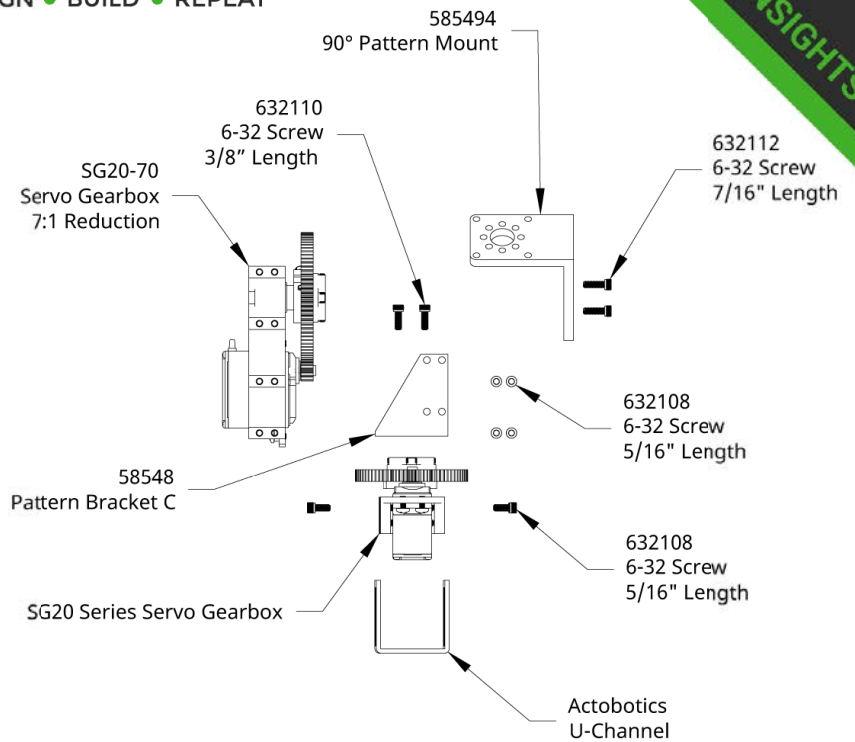
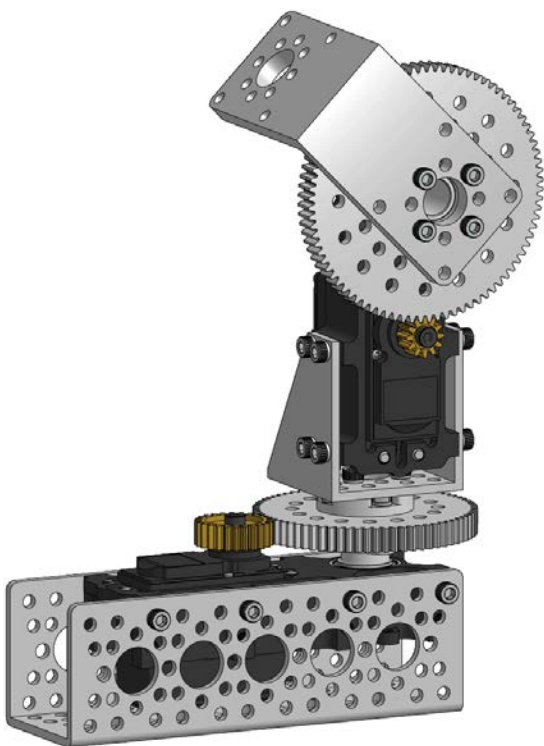
SG20 Series Product Insight #2

If you're looking to significantly expand the number of mounting options at your disposal with a Servo Gearbox, look no further than the 585506 Short Pattern Bracket. It can add either a top or bottom mounting flange to your gearbox, depending on the orientation of the 585506.



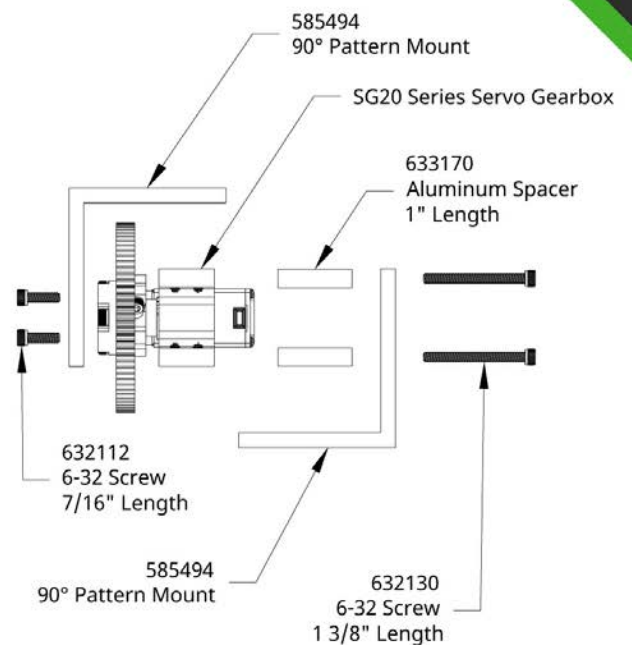
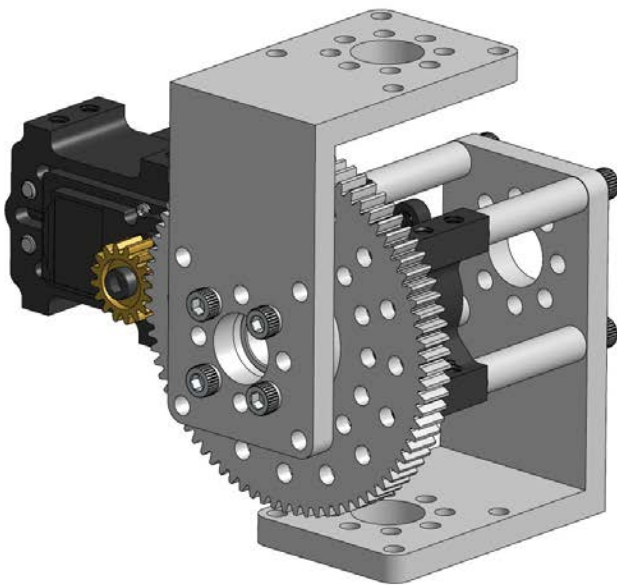
SG20 Series Product Insight #3

The SG20 Series Servo Gearbox is designed around the core of the Actobotics line, U-Channel. Combining those two parts creates a very versatile system that can be mounted on any of the three sides.



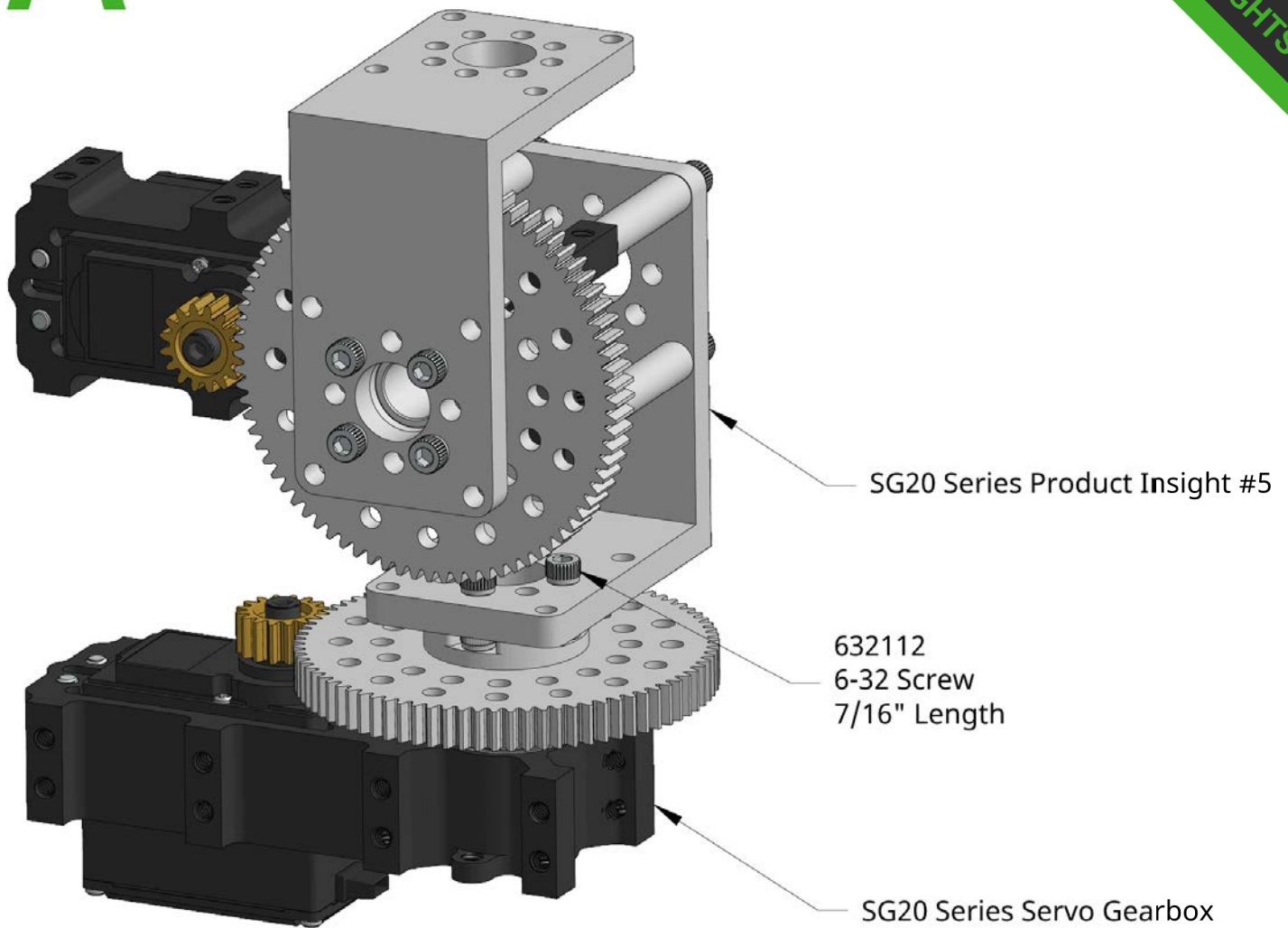
SG20 Series Product Insight #4

Adding a second SG20 Series Servo Gearbox allows you to create an incredibly robust pan-and-tilt system with an immense amount of torque at its disposal. The 90° Pattern Mount gives you easy mounting for anything from a paintball gun to a slow-mo camera.



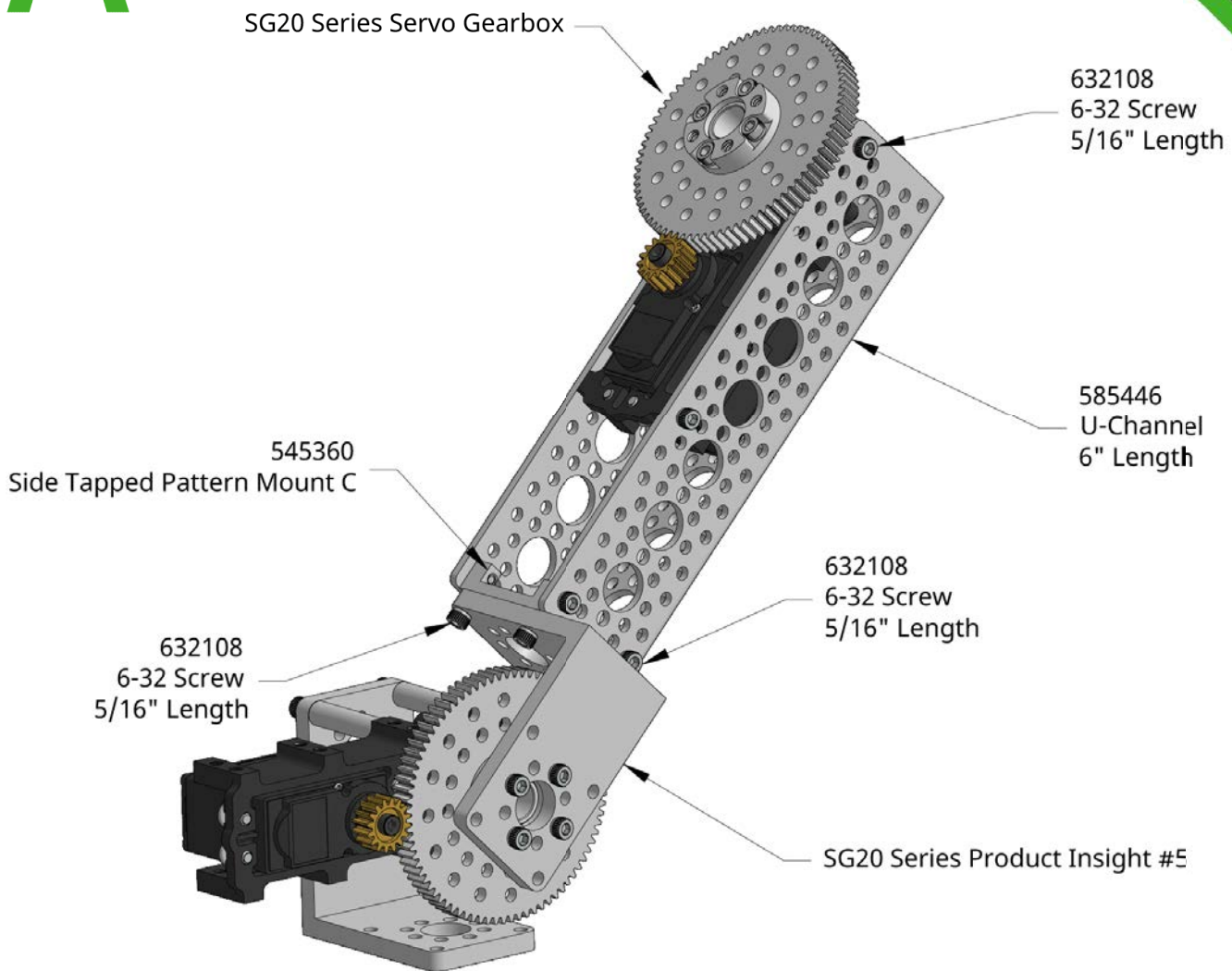
SG20 Series Product Insight #5

The 585494 90° Pattern Mount is an incredibly versatile part to add to your Servo Gearbox toolkit. It can be used to create robust and powerful tilt systems with your SG20 Series Servo Gearbox.



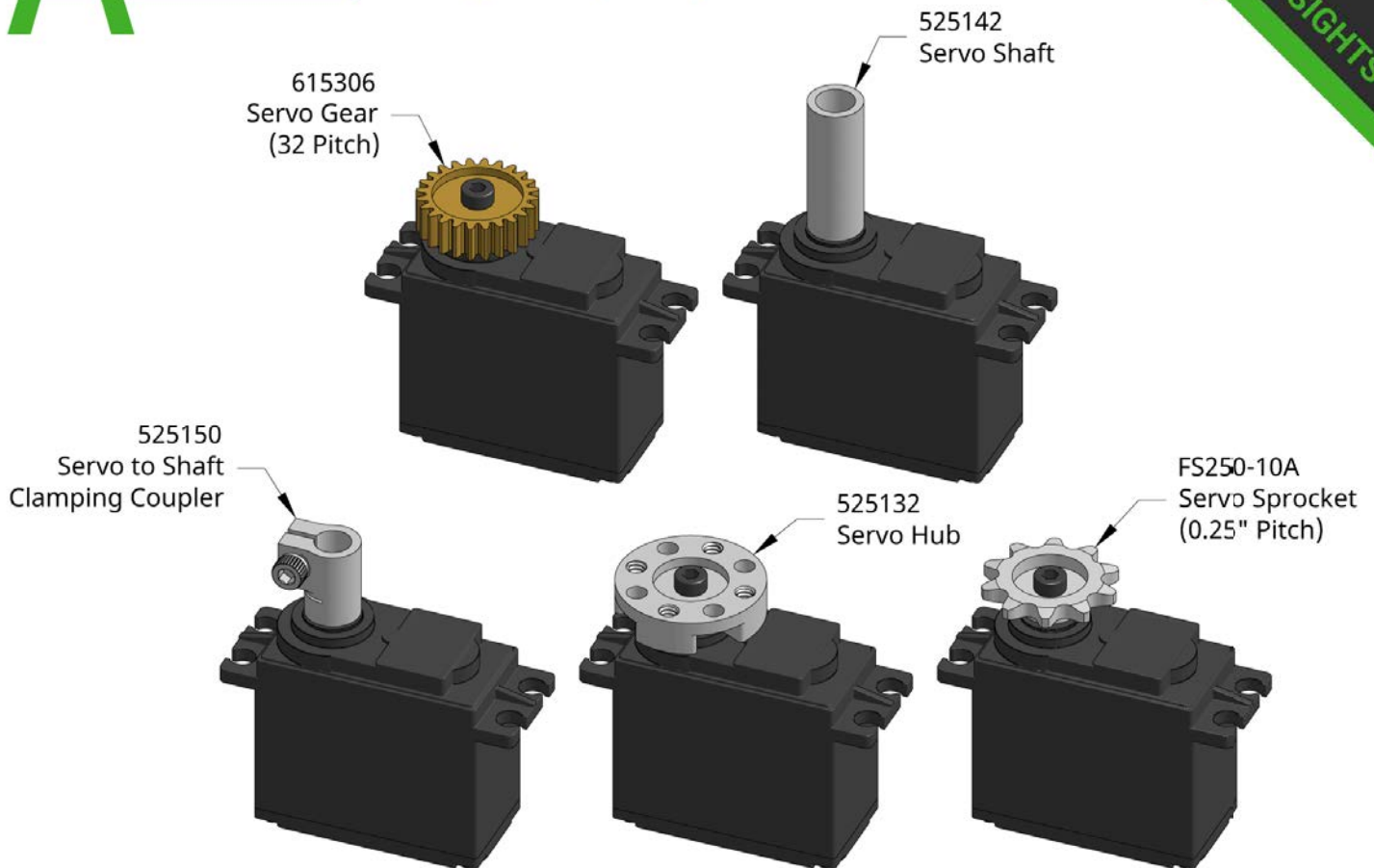
SG20 Series Product Insight #6

Creating a compact pan and tilt system is easy with the SG20 Series Servo Gearbox. Combining the assembly detailed in Product Insight #5 with another Servo Gearbox creates a powerful pan-and-tilt setup.



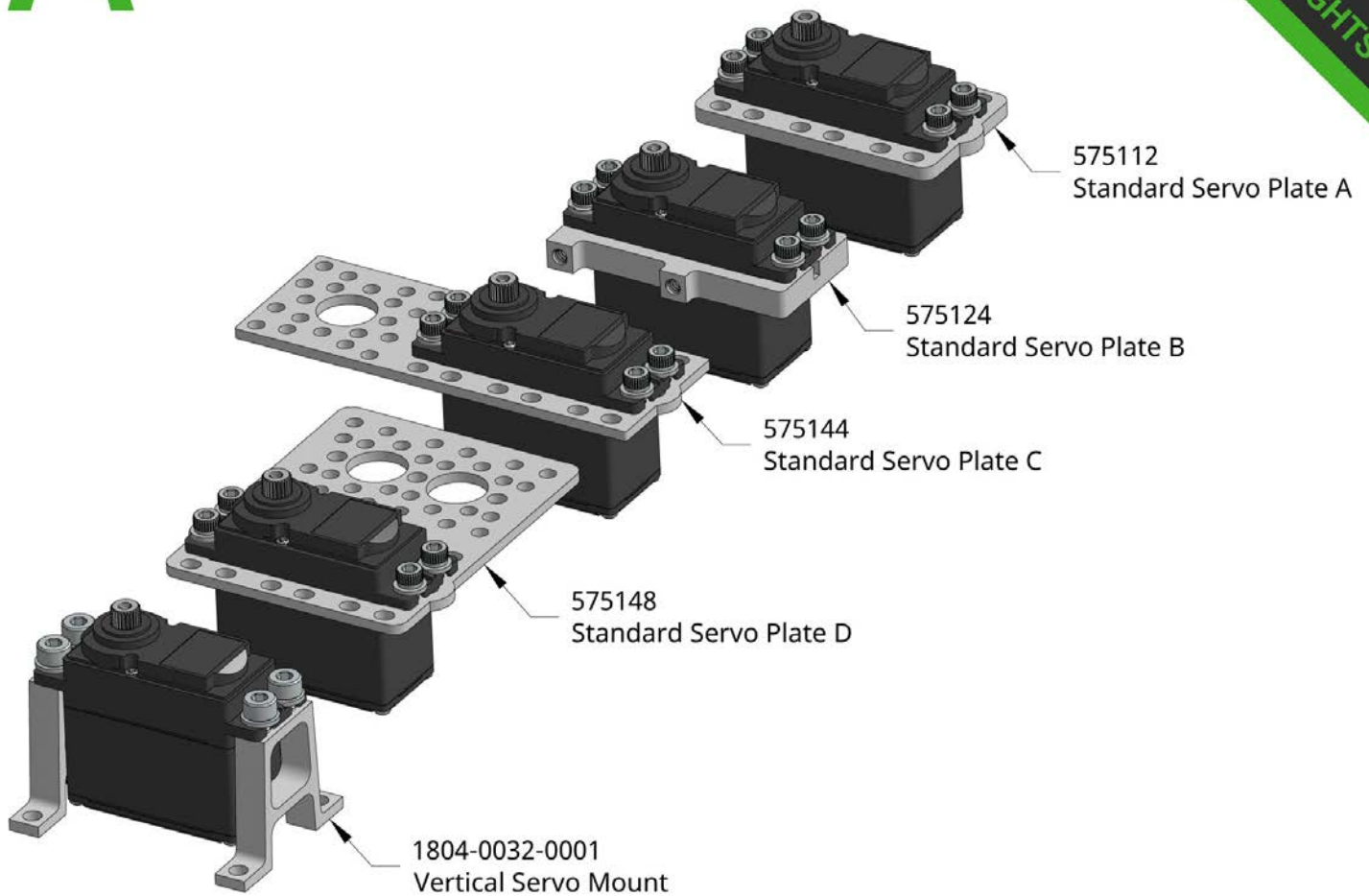
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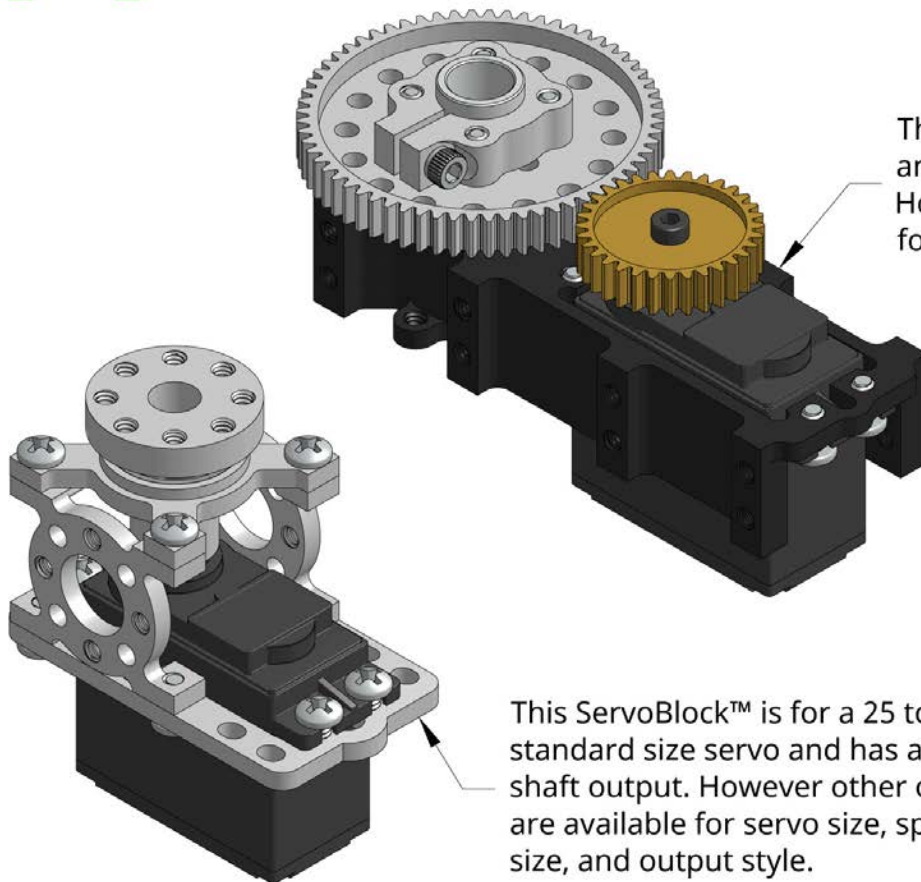
Standard Size, H25T Servos Product Insight #1

About any servo comes with at least one servo horn for common RC style applications. The Actobotics product line lets you go beyond that with a wide offering of servo attachments. Each of the assemblies shown represents one style of servo attachment. Each of the attachments shown have additional variations with different properties (such as tooth count, length, bore etc) allowing you to select the attachment that works best for your application. Some of the attachments (such as the sprocket) are best suited on multi-turn or continuous rotation servos.



Standard Size, H25T Servos Product Insight #2

We offer a variety of mounting options for standard sized servos. The 1084-0032-0001 Servo Mount makes it easy to attach your servo to surfaces such as wood. The Actobotics Servo Plates make it easy to mount your servo into your Actobotics project. They keep the center of the spline on-pattern making it easy to do things like drive a hub-mount gear with a servo-mount gear.



This Servo Gearbox has a 2:1 ratio, and is for a standard size servo. However, other options are available for different ratios and servo sizes.

This ServoBlock™ is for a 25 tooth standard size servo and has a hub shaft output. However other options are available for servo size, spline size, and output style.

Standard Size, H25T Servos Product Insight #3

The Actobotics product line offers two great ways to strengthen your servo. A ServoBlock™ acts as an exoskeleton, isolating lateral load from the servo spline while adding mounting options. Servo Gearboxes take it a step further by also gearing down the servo for increased output torque.