

GARMIN®

LIVESCOPE™ 2 TRANSDUCER

Installation Instructions

Important Safety Information

⚠ WARNING

See the *Important Safety and Product Information* guide in the chartplotter product box for product warnings and other important information.

You are responsible for the safe and prudent operation of your vessel. Sonar is a tool that enhances your awareness of the water beneath your boat. It does not relieve you of the responsibility of observing the water around your boat as you navigate.

⚠ CAUTION

Failure to install and maintain this equipment in accordance with these instructions could result in damage or injury.

NOTICE

For the best possible performance and to avoid potential damage to the device or to your vessel, you must install this device according to these instructions.

Read all installation instructions before proceeding with the installation. If you experience difficulty during the installation, go to support.garmin.com for more information.

Software Update

You must update the Garmin® chartplotter software when you install this device. For instructions on updating the software, see your chartplotter owner's manual at support.garmin.com.

Installation Support Videos

You can view videos online for assistance when installing this device.

You can access the videos by going to garmin.com/videos/lvs2 in your web browser or by scanning this QR code with your smartphone.



Tools Needed

- Flat screwdriver or 8 mm wrench or socket to install the barrel mount clamp
- Electrical tape (preferred) or cable ties

Parts Bags

The installation hardware for the transducer is included in labeled bags. As you complete the installation process, each procedure begins with a reference to the label on the parts bag needed to complete the procedure. You can use this table to review or verify the parts bags needed for the installation procedures.

NOTE: You should leave all parts in the labeled bags until the instructions advise you to open a specific bag. Not all hardware is used for all installation types.

A	Contains parts needed when installing the side shaft mount
B	Contains parts needed when installing the barrel mount
C	Contains parts needed when installing the perspective, shaft, or barrel mount
D	Contains parts needed when installing the side shaft mount
E	Contains parts needed when installing the side shaft mount

F	Contains optional low-profile mounting screws
G	Contains optional longer screws for a shaft diameter greater than 42 mm (1.65 in.)
H	Contains an adapter disc needed when installing on a Force® Kraken trolling motor
J	Contains parts needed when installing the perspective mount
K	Contains an adapter disc needed when installing on the bottom shaft mount of a Spy Pole mount

Mounting Considerations

NOTICE

The use of third-party or self-fabricated mounts could lead to transducer damage or loss. Damage or loss sustained when using a third-party or self-fabricated mount is not covered under warranty.

Using the hardware supplied, you can mount the transducer on a trolling motor or Spy Pole mount in the following ways.

- Perspective Mount (*Installing the Transducer on the Perspective Mode Mount, page 3*)
 - You can mount the transducer on a trolling motor shaft using the perspective view bracket.
 - You can use the transducer in perspective view, or rotate the bracket into the side shaft configuration to use forward and downward views.
- Barrel Mount (*Installing the Transducer on a Trolling Motor Barrel, page 7*)
 - You can mount the transducer on either side of a trolling motor barrel.
 - When mounted on a trolling motor barrel, you can use the transducer for downward and forward views.
 - When mounted on a trolling motor barrel, you cannot use the transducer for perspective view.
- Bottom Mount
 - You can mount the transducer to the bottom mount of a Force® Kraken trolling motor (*Installing the Transducer on the Force® Kraken LiveScope™ Mounting Bracket, page 9*) or a Spy Pole mount (*Installing the Transducer on the Bottom Mount of a Spy Pole Mount, page 11*).
 - When installed using the bottom mount method, you can use the transducer for forward, downward, and perspective views.

When planning the installation, you should observe these considerations.

- You must angle the transducer correctly for the selected view to work properly.
- Installing the transducer with the included knobs allows for tool-free transitions between sonar views.
- You can use the included low-profile hardware instead of the knobs for a more permanent transducer view position.
- You should mount the transducer in a location where it will not be jarred when launching, hauling, or storing.

Cable Considerations

NOTICE

Zip ties and cable clamps can over-tighten and damage or break the cable, or cause cable fatigue due to repeated rotation of the motor.

You should use black electrical tape to secure the cable above and below a rotating joint. If you secure the cable with zip ties, do not over-tighten the zip ties.

You should secure the cable above and below the pivot joint of a trolling motor.

The device cables have a minimum bend radius of 25 mm (9.8 in.).

You should create a service loop at least 25 cm (9.8 in.) long in the cable, with the rotating joint centered on the loop.

NOTICE

Failure to follow these considerations may void your product warranty.

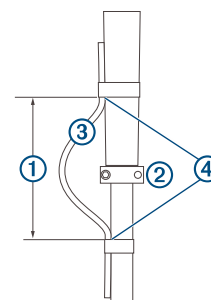
You can extend the network cable using a Garmin BlueNet™ coupler and extension cable from buy.garmin.com.

Routing the Transducer Cable

You should test-fit the transducer and cable before finalizing the installation.

- 1 Allow a loose gap of at least 20 cm (8 in.) ① around the rotating joint ② to create a loop ③ in the cable.

The loop must be large enough to allow full rotation of the transducer in both directions, so you can use a guideline of 10 cm (4 in.) above and 10 cm (4 in.) below when establishing the loop. You should allow a minimum of 25 cm (9.8 in.) of transducer cable to cover the 20 cm (8 in.) section between the points where you secure the cable to the shaft.



- 2 Use black electrical tape ④ to secure the transducer cable to the shaft.
- 3 Test the full rotation of the trolling motor to ensure the cable clears the rotating joint and is not pulled tight due to tension during rotation.
- 4 Route the transducer cable through your vessel to the power source and your chartplotter.
- 5 Connect the included Y-split cable to the end of the transducer cable.
- 6 Connect the positive (red) cable to the positive terminal on your power source, observing proper fusing.
- 7 Connect the negative (black) cable to the negative terminal on your power source.
- 8 Connect the Garmin BlueNet™ cable to your compatible chartplotter or network switch, using an adapter cable if your chartplotter or switch has only a Legacy Garmin® Marine Network port.

Using the Optional Split Collar

If you plan to drill a hole or need to route the cable through a tight space during installation, you can remove the existing solid locking collar on the cable before routing it. After routing the cable to the final location, you can install the included split locking collar before making the connection.

- 1 Use side-cutting pliers to cut through the existing solid collar.
Take care when cutting the existing collar to avoid damaging the cable or the connector.
- 2 Remove the solid collar from the cable connector and save the existing o-ring if it is not damaged.
- 3 Route the cable to the connection location.
- 4 If needed, separate the two pieces of the optional split collar.
- 5 Snap the pieces together around the cable connector.
- 6 Insert either the original o-ring or the included replacement o-ring around the connector and into the collar.

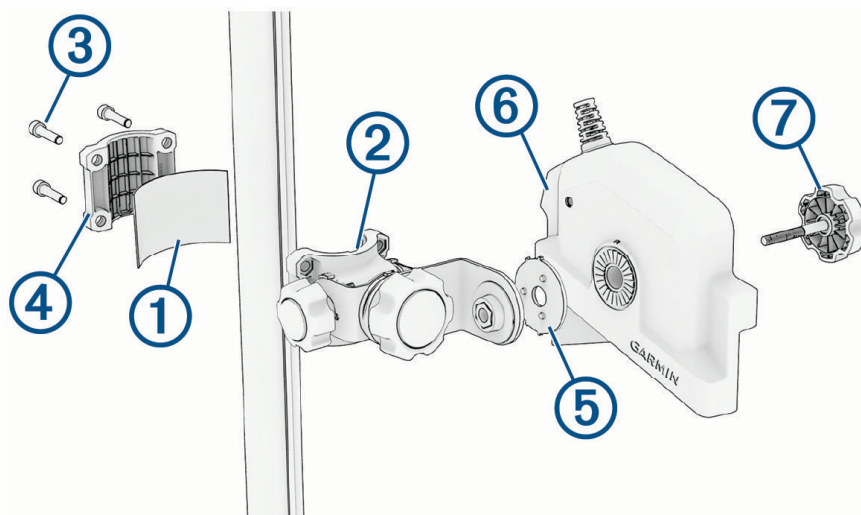
Installing the Transducer on the Perspective Mode Mount

You can use the perspective mode mount to install the transducer in the perspective or side shaft configuration. Labels identifying the parts bags required for this procedure:



NOTE: To avoid obstructions in the sonar image, you should mount the transducer on the shaft as far from the motor as possible.

- 1 Remove the perspective mode bracket from parts bag ①.
- 2 Remove the adapter disc from parts bag ②, which is located within parts bag ③.
- 3 Remove the back half of the mounting bracket and four screws from parts bag ④.
NOTE: For a shaft diameter greater than 42 mm (1.65 in.), use the four screws from parts bag ⑤ instead.
- 4 Remove the knob from parts bag ⑥.
- 5 If the trolling motor shaft is equal to or less than 25 mm (1 in.) in diameter, remove the rubber liner from parts bag ⑦.
- 6 Identify the arrow on the front half of the mounting bracket to ensure you install the bracket in the correct orientation when you secure it to the trolling motor.
- 7 If you are installing the transducer on a shaft equal to or less than 25 mm (1 in.) in diameter, wrap the rubber liner ① around the shaft at the location where you plan to install the bracket.



NOTE: The rubber liner is not needed when installing the transducer on a shaft with a diameter larger than 25 mm (1 in.).

- 8 Orient the mounting bracket (2) on the shaft so the arrows on the inside of the front half of the bracket point upward.
The bracket should be aligned so the notch in the bracket lines up with the groove in the trolling motor shaft.
- 9 Insert the screws (3) into the back of the mounting bracket (4), and secure them to the front bracket using the 5 mm hex wrench in parts bag (A).
- 10 Transition the trolling motor from the deployed to the stowed position and back again to test the location of the mounting bracket and make any adjustments as needed (optional).
- 11 Remove the adhesive liner from the back of the adapter disc (5).
- 12 Attach the adapter disc to the end of the mount arm by aligning the 3 pegs on the adapter disc with the holes in the bracket (2).
- 13 Place the transducer (6) against the adapter disc, and attach it using the knob (7).
You can secure the transducer to the extension arm using the included low-profile hardware instead of the knobs if you do not plan to switch transducer modes frequently during use (*Installing the Transducer Using Low Profile Mounting Hardware*, page 9).
- 14 Secure the transducer cable to the shaft or other secure location.

NOTICE

You must route the cable so it does not come in contact with the propeller when the trolling motor is operating.

You should not route the cable close to electrical wires or other sources of electrical interference.

You must route the cable so it is not pinched when the trolling motor is deployed or stowed.

Failure to adhere to these guidelines can result in property damage or damage to your device.

Leave a small amount of slack in the transducer cable before securing it so you can rotate the transducer between viewing modes as needed.

NOTE: If necessary, you can connect an optional extension cable, available at buy.garmin.com or from your Garmin® dealer.

- 15 Position the transducer at your preferred angle (*Viewing Modes*, page 4).

Viewing Modes

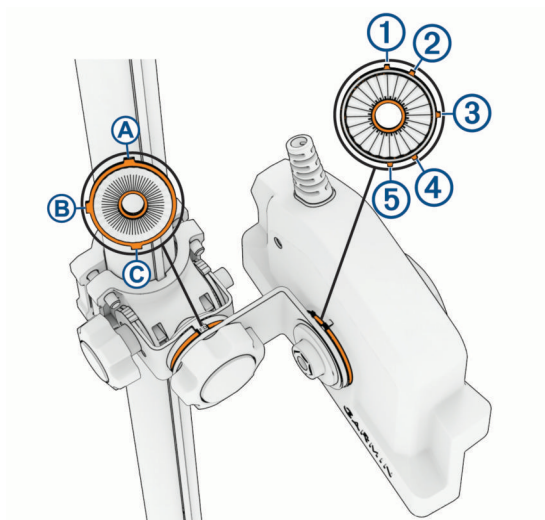
Using the perspective mode mount, you can change the orientation angle of the transducer between three sonar views.

When installing the transducer using the recommended adjustment knobs, no tools are necessary to change the orientation between these fields of view. You must loosen the knobs to change the orientation of the arm and transducer, and tighten them to set the orientation.

You can verify the sonar view using the notches on the perspective mount bracket and the transducer.

NOTE: The notches are labeled on the transducer hardware and bracket, so you can use these tables and diagrams to match the notches and understand the positioning of the transducer and perspective view bracket when changing between sonar views.

The transducer is labeled with markings to configure the sonar view for both the port and starboard side, so you can choose the configuration based on your installation arrangement.



Glyph	Disc Marking	Meaning
Ⓐ	F D	Starboard side forward or downward view
Ⓑ	P	Perspective view
Ⓒ	F D	Port side forward or downward view
①	D	Port side downward view
②	F	Port side forward view
③	P	Perspective view
④	F	Starboard side forward view
⑤	D	Starboard side downward view

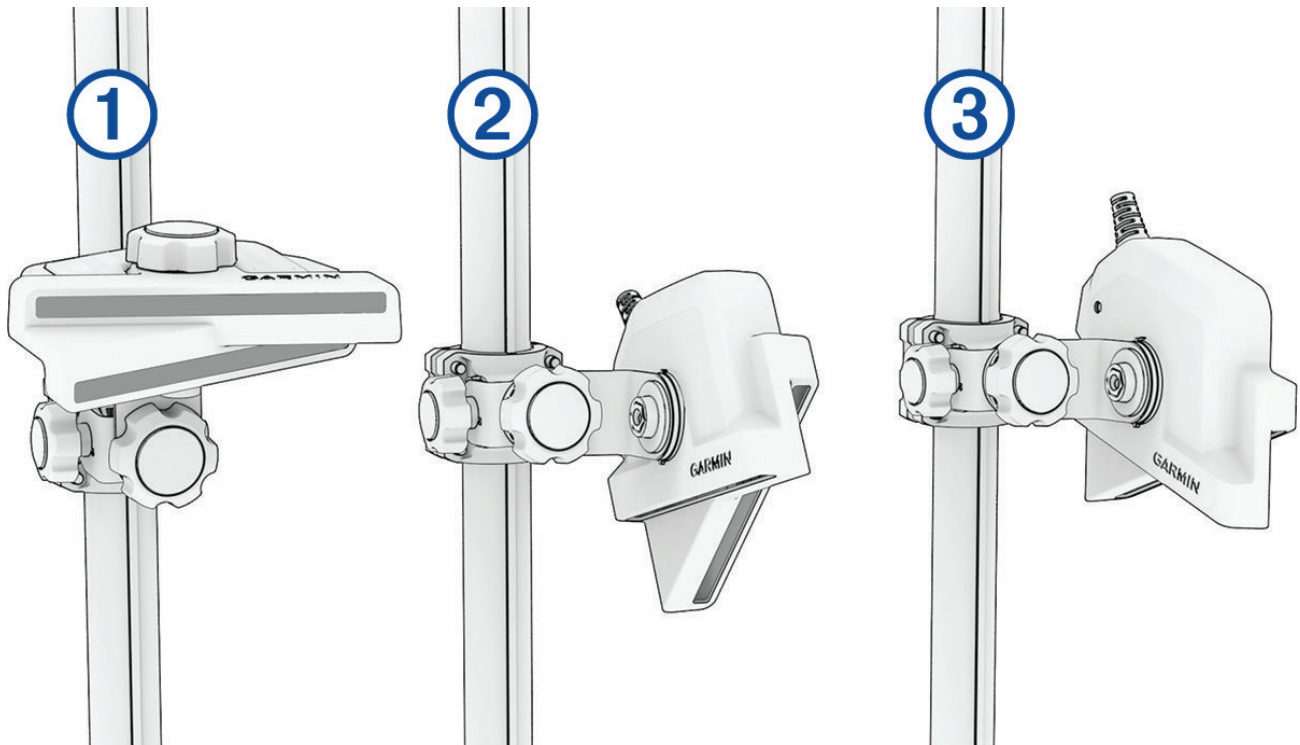


Figure 1: Viewing Mode Examples on the Port Side

1	Perspective view (notches B and 3)
2	Forward view (notches C and 2)
3	Downward view (notches C and 1)

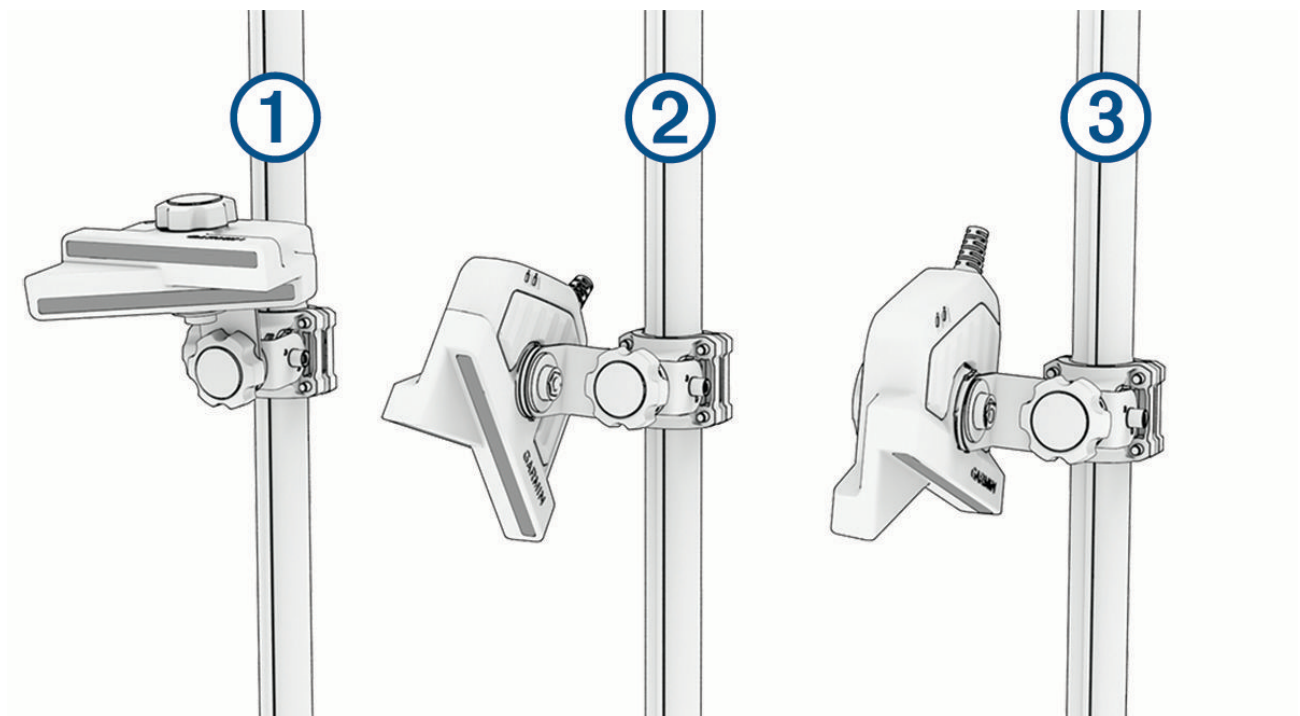


Figure 2: Viewing Mode Examples on the Starboard Side

1	Perspective view (notches B and 3)
2	Forward view (notches A and 4)
3	Downward view (notches A and 5)

You should align the marks on the transducer and bracket to verify the appropriate orientation before tightening the knob.

Installing the Transducer on a Trolling Motor Barrel

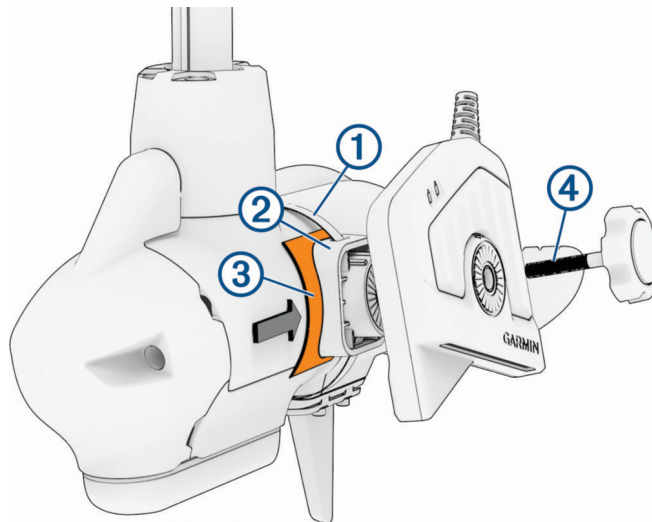
Labels identifying the parts bags required for this procedure:



NOTICE

You must secure the transducer cable to the shaft or other secure location during installation. Damage to the transducer cable wires or cable jacket can cause transducer failure.

- 1 Remove the rubber liner from parts bag C.
- 2 Remove the hose clamp and trolling motor barrel mount from parts bag B.
- 3 Insert the hose clamp 1 through the slot on the trolling motor mount 2 until equal lengths extend on both sides of the mount.



- 4
- 5 Place the rubber liner 3 against the trolling motor barrel where you plan to secure the mount.
- 6 Identify the arrows on the inside of the trolling motor barrel mount that should point upward when the mount is installed.
- 7 Secure the hose clamp around the trolling motor barrel using a flat screwdriver or 8 mm wrench or socket, making sure the barrel mount is oriented in the correct direction.
- 8 Remove the knob from parts bag C.
- 9 Attach the transducer to the mount using the knob 4, and tighten the knob by hand.
You can secure the transducer to the mount using the included low-profile hardware instead of the knob if you do not plan to switch transducer modes frequently during use ([Installing the Transducer Using Low Profile Mounting Hardware, page 9](#)).
- 10 Secure the transducer cable to the motor shaft or other secure location while taking these precautions.
 - You must route the cable so it does not come in contact with the propeller when the trolling motor is operating.
 - You should not route the cable close to electrical wires or other sources of electrical interference.
 - You must route the cable so it is not pinched when the trolling motor is deployed or stowed.

NOTE: If necessary, you can connect an optional extension cable, available at buy.garmin.com or from your Garmin® dealer.

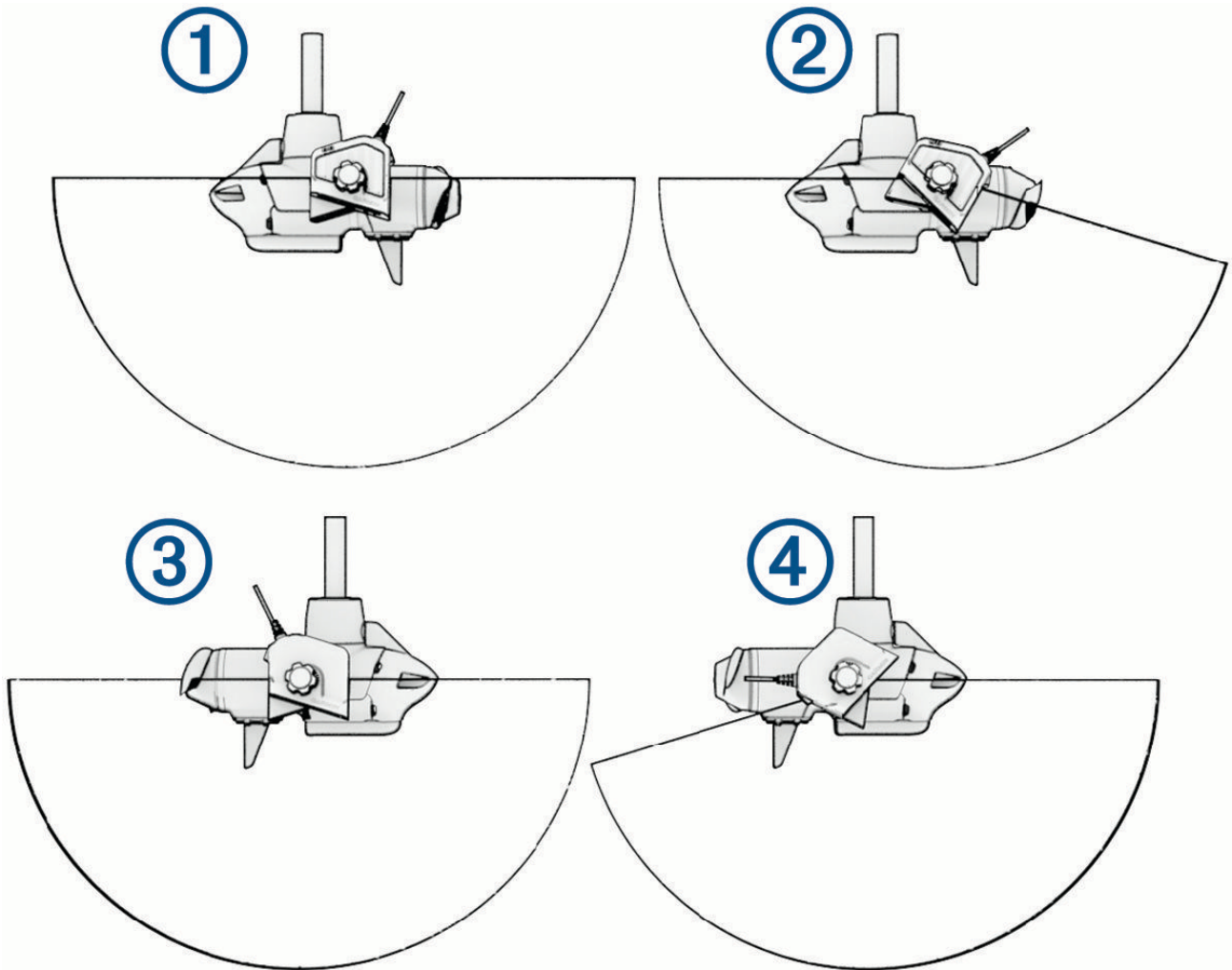
11 Position the transducer to your preferred angle ([Viewing Modes, page 4](#)).

Trolling Motor Barrel Mount Orientation

The orientation angle depends on which side of the trolling motor you have mounted the transducer on, and your desired field of view.

When installing the transducer using the recommended adjustment knob, no tools are necessary to change the orientation. You must loosen the knob to change the orientation and tighten it to set the orientation.

NOTE: You should align the marks as shown on the transducer and mount to verify the appropriate orientation before tightening the knob.



①	Port side, downward view
②	Port side, forward view
③	Starboard side, downward view
④	Starboard side, forward view

Installing the Transducer on a Pole

You can use the included hardware to install the transducer on a pole (not included). Installing the transducer on a pole is similar to installing the transducer on a trolling motor shaft. If needed, you can refer to the diagram provided for installing the transducer on a trolling motor shaft when installing the transducer on a pole ([Installing the Transducer on the Perspective Mode Mount, page 3](#)).

Labels identifying the parts bags required for this procedure:



NOTICE

You must secure the transducer cable to the pole or other secure location during installation. Damage to the transducer cable wire or the cable jacket can cause transducer failure.

If you are installing your transducer on a Spy Pole mount, refer to the Spy Pole side shaft mounting section ([Installing the Transducer on the Spy Pole Perspective Mount, page 10](#)).

- 1 Remove the back of the mount bracket and four screws from parts bag **J**.
- 2 Remove the front half of the shaft mount bracket from parts bag **A**.
- 3 If the pole is equal to or less than 25 mm (1 in.) in diameter, remove the rubber liner from parts bag **J**.
- 4 If the pole is equal to or less than 25 mm (1 in.) in diameter, wrap the rubber liner around the pole in the location where you plan to install the mount.
- 5 Place the mount bracket around the rubber liner on the pole.
- 6 Insert the screws into the mount bracket, and secure them using the 5 mm hex wrench in parts bag **A**.
- 7 Remove the knob from parts bag **C**.
- 8 Place the transducer against the mount bracket, and secure it using the knob.

You can secure the transducer to the mount using the included low-profile hardware instead of the knob if you do not plan to switch transducer modes frequently during use ([Installing the Transducer Using Low Profile Mounting Hardware, page 9](#)).

- 9 Secure the transducer cable to the pole or other secure location.

Installing the Transducer Using Low Profile Mounting Hardware

If you do not plan to change the viewing mode of the transducer often, or prefer a lower-profile installation without the adjustment knobs, you can use the included hardware to install the transducer instead of using the knobs.

Labels identifying the parts bags required for this procedure:



- 1 Secure the mounting bracket to the trolling motor barrel ([Installing the Transducer on a Trolling Motor Barrel, page 7](#)), Spy Pole mount, or trolling motor shaft ([Installing the Transducer on the Perspective Mode Mount, page 3](#)) according to the appropriate instructions, but do not use the included adjustment knobs.
- 2 Use the low-profile screw and metal washer from parts bag **F** to secure the transducer to the mounting bracket.
- 3 Adjust the view of the transducer, and tighten the low-profile screws using the 5 mm hex wrench in parts bag **A**.

Installing the Transducer on the Force® Kraken LiveScope™ Mounting Bracket

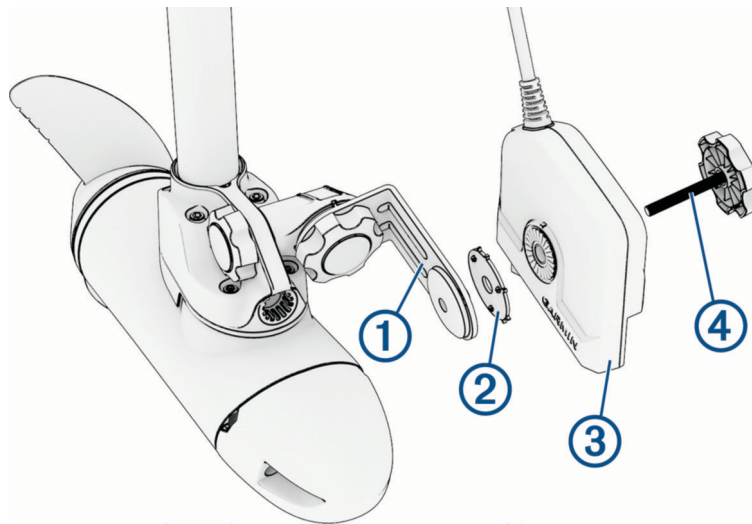
Labels identifying the parts bags required for this procedure:



NOTICE

You must secure the transducer cable to the shaft or other secure location during installation. Damage to the transducer cable wires or cable jacket can cause transducer failure.

- 1 Remove any other transducer from the bottom mount of your Force Kraken trolling motor.
- 2 Using a flat prying tool, pry the adapter disc off of the bottom mount **1**.



- 3 Remove the new adapter disc from parts bag **H**.
- 4 Remove the adhesive liner from the back of the adapter disc.
- 5 Align the pegs in the adapter disc **2** with the corresponding holes in the bottom mount , and press the disc onto the mount.
- 6 Remove the knob from parts bag **C**.
- 7 Attach the transducer **3** to the mount using the knob **4**, and tighten the knob by hand.
You can secure the transducer to the mount using the included low-profile hardware instead of the knob if you do not plan to switch transducer modes frequently during use (*Installing the Transducer Using Low Profile Mounting Hardware*, page 9).
- 8 Secure the transducer cable to the motor shaft or other secure location while taking these precautions.
 - You must route the cable so it does not come in contact with the propeller when the trolling motor is operating.
 - You should not route the cable close to electrical wires or other sources of electrical interference.
 - You must route the cable so it is not pinched when the trolling motor is deployed or stowed.

NOTE: If necessary, you can connect an optional extension cable, available at buy.garmin.com or from your Garmin® dealer.
- 9 Position the transducer to your preferred angle (*Viewing Modes*, page 4).

Installing the Transducer on the Spy Pole Perspective Mount

You can use the perspective mode mount to install the transducer in the perspective or side shaft configuration on the side of a Spy Pole mount.

Labels identifying the parts bags required for this procedure:

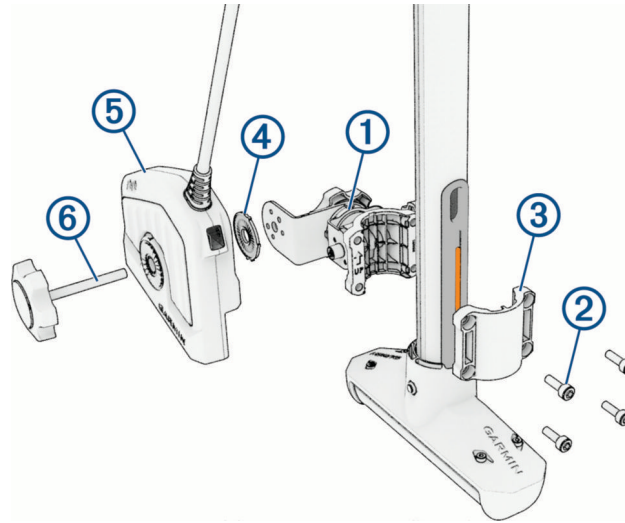


NOTICE

If your Spy Pole mount is connected to a trolling motor, you must use the dogbone stabilizer if you attach the LiveScope™ 2 to the side of the Spy Pole shaft. You can purchase the dogbone stabilizer kit from your local Garmin® dealer or from buy.garmin.com.

- 1 Remove the perspective mode bracket from parts bag **A**.
- 2 Remove the adapter disc from parts bag **D**, which is located within parts bag **E**.
- 3 Remove the back half of the mounting bracket and the four screws from parts bag **L**.
- 4 Remove the knob from parts bag **C**.
- 5 Identify the arrow on the front half of the mounting bracket to ensure you install the bracket in the correct orientation when you secure it to the Spy Pole mount.

- 6 Orient the mounting bracket ① on the shaft so the arrows on the inside of the front half of the bracket point upward.



NOTICE

The bracket must be aligned so the notch in the bracket lines up with the grooves in the Spy Pole shaft grommet. Misaligning these pieces and tightening the bracket can result in damage to your Spy Pole mount.

- 7 Insert the screws ② into the back of the mounting bracket ③, and secure them to the front bracket using the 5 mm hex wrench in parts bag A.
- 8 Transition the Spy Pole mount from the deployed to the stowed position and back again to test the location of the mounting bracket and make any necessary adjustments (optional).
- 9 Remove the adhesive liner from the back of the adapter disc ④.
- 10 Attach the adapter disc to the end of the mount arm by aligning the 3 pegs on the adapter disc with the holes in the bracket.
- 11 Place the transducer ⑤ against the adapter disc, and attach it using the knob ⑥.
You can secure the transducer to the extension arm using the included low-profile hardware instead of the knobs if you do not plan to switch transducer modes frequently during use ([Installing the Transducer Using Low Profile Mounting Hardware, page 9](#)).
- 12 Route the transducer cable through the shaft.

NOTICE

You should not route the cable close to electrical wires or other sources of electrical interference, and you must route the cable so it is not pinched when the Spy Pole mount is deployed or stowed. Failure to adhere to these guidelines can result in property damage or damage to your device.

Leave a small amount of slack in the transducer cable before securing it so you can rotate the transducer between viewing modes.

NOTE: If necessary, you can connect an optional extension cable from your local Garmin dealer or from buy.garmin.com.

- 13 Position the transducer at your preferred angle ([Viewing Modes, page 4](#)).

Installing the Transducer on the Bottom Mount of a Spy Pole Mount

Labels identifying the parts bags required for this procedure:



NOTICE

You must secure the transducer cable to the Spy Pole shaft or other secure location during installation. Damage to the transducer cable wires or cable jacket can cause transducer failure.

- 1 Remove any other device from the bottom mount of your Spy Pole mount.
- 2 Using a flat prying tool, pry the adapter disc off of the bottom mount.
- 3 Remove the new adapter disc from parts bag (K).
- 4 Remove the adhesive liner from the back of the adapter disc.
- 5 Align the pegs in the adapter disc with the corresponding holes in the bottom mount, and press the disc onto the mount.
- 6 Remove the knob from parts bag (E).
- 7 Attach the transducer to the mount using the knob, and tighten the knob by hand.

You can secure the transducer to the mount using the included low-profile hardware instead of the knob if you do not plan to switch transducer modes frequently during use (*Installing the Transducer Using Low Profile Mounting Hardware*, page 9).
- 8 Secure the transducer cable to the Spy Pole shaft or other secure location while taking these precautions.
 - You should not route the cable close to electrical wires or other sources of electrical interference.
 - You must route the cable so it is not pinched when the Spy Pole mount is deployed or stowed.

NOTE: If necessary, you can connect an optional extension cable, available at buy.garmin.com or from your Garmin® dealer.
- 9 Position the transducer at your preferred angle (*Viewing Modes*, page 4).

Power Cable Extension

You can connect the cable from the transducer directly to the power cable, but this may not be long enough to reach both the location of the power source and the transducer for all installations. You can extend the cable to reach the power supply in your vessel using a combination of options:

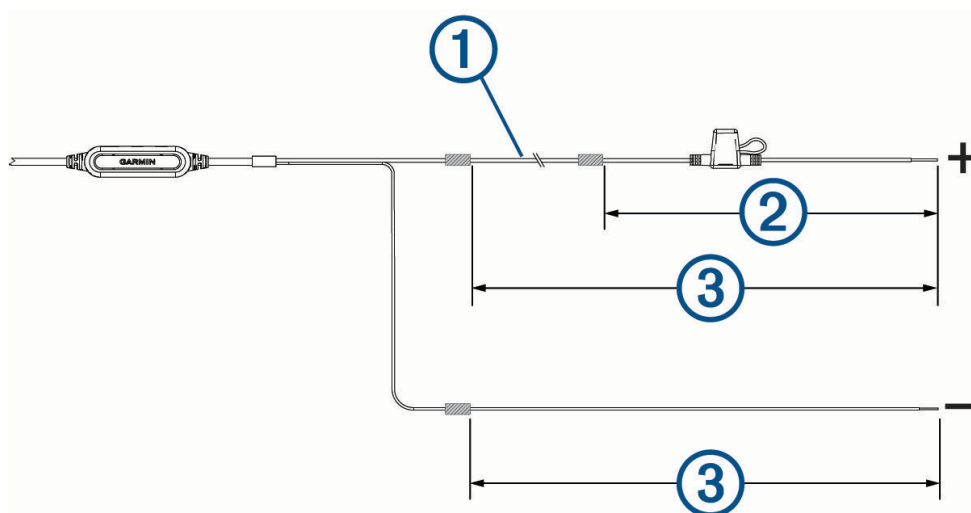
- You can use transducer extension cables between the transducer cable and the power cable.
 - Transducer extension cables are available from your local Garmin® dealer or from buy.garmin.com.
 - Transducer extension cables are available in 3 m (10 ft.) and 1 m (3 ft.) lengths.
 - You can add up to 6 m (20 ft.) of length using a combination of these extension cables.
- You can cut and splice wire onto the positive and negative wires of the power cable to extend them (*Power Cable Extension by Splicing Wires*, page 12).
- You can add transducer extension cables between the transducer cable and the power cable and you can also cut and splice wire onto the positive and negative wires of the power cable to extend them (*Power Cable Extension Using Transducer Extension Cables and Splicing Wires*, page 13).

Power Cable Extension by Splicing Wires

You can cut and splice wire (not included) onto the positive and negative wires of the power cable to extend them. Refer to the table below for the appropriate wire gauge for the length of this extension. Use marine-grade connectors or solder and water-resistant heat-shrink tubing when splicing the power wires.

NOTICE

You can extend the power wires up to 11 m (36 ft.) by splicing an extension. If you add an extension that exceeds this length, the transducer may not receive the voltage required to function properly.



Item	Description
	Splice
①	10 AWG (5.26 mm²) extension wire, up to 4.6 m (15 ft.) 8 AWG (8.36 mm²) extension wire, up to 7 m (23 ft.) 6 AWG (13.29 mm²) extension wire, up to 11 m (36 ft.)
②	20.3 cm (8 in.)
③	Maximum extension 11 m (36 ft.)

Power Cable Extension Using Transducer Extension Cables and Splicing Wires

For maximum cable length, you can both add transducer extension cables between the transducer cable and the power cable and add wire splices onto the positive and negative wires of the power cable. You can extend the entire length of the cable to span up to 15 m (50 ft.) when using this combination of extensions.

The appropriate wire gauge used to extend the power wires in this combination depends on the length of transducer cable extensions used and the voltage provided by the power supply. Refer to the table below for the appropriate wire gauge for your installation needs.

NOTICE

The total extension length should not exceed 15 m (50 ft.). If you add extensions that exceed this length, the transducer may not receive the voltage required to function properly.

Length of Transducer Extension Cables Used	Power-Wire Gauge for 12V Systems	Power-Wire Gauge for 24V Systems
Up to 3 m (10 ft.)	8 AWG	10 AWG
From 3 m (10 ft.) to 6 m (20 ft.)	6 AWG	

Transducer Settings and Operation

For transducer settings and operation information, see your chartplotter owner's manual.

Configuring the Viewing Mode

After installing the transducer, you should configure the software for how you plan to use it. The software should default to an automatic orientation setting that identifies the orientation based on the positioning of the transducer when deployed. If you disable automatic orientation or prefer more control over how you view the sonar information from the transducer, you can also configure the viewing mode manually.

1 From an applicable sonar screen on the chartplotter, select **Options > Sonar Setup > Installation > Orientation**.

2 Select the viewing mode you plan to use with the transducer.

TIP: If you plan to change the viewing mode of the transducer during use, you should select Auto for the best results.

Calibrating the Compass

Before you can calibrate the compass, the transducer must be installed far enough away from the trolling motor to avoid magnetic interference, and deployed in the water. Calibration must be of sufficient quality to enable the internal compass.

NOTICE

The compass may not work if you mount the transducer on the motor.

NOTE: For best results, you should use a heading sensor such as the SteadyCast™ heading sensor. The heading sensor shows the direction the transducer is pointing relative to the boat.

You can begin turning your boat before calibrating, but you must fully rotate your boat 1.5 times during calibration.

- 1 From an applicable sonar view, select **Options > Sonar Setup > Installation**.
- 2 If necessary, select **Use AHRS** to turn on the AHRS sensor.
- 3 Select **Calibrate Compass**.
- 4 Follow the on-screen instructions.

Appendix

Specifications

Specification	LVS42	LVS44
Dimensions (L x H x W)	13.3 x 13.4 x 4.8 cm (5.2 x 5.3 x 1.9 in.)	16.0 x 14.2 x 4.8 cm (6.3 x 5.6 x 1.9 in.)
Weight (includes transducer cable)	1.65 kg. (3.6 lb.)	1.8 kg. (3.9 lb.)
Frequencies	850 kHz to 1,600 kHz	600 kHz to 1,050 kHz
Operating temperature	0 to 40°C (32 to 104°F)	
Storage temperature	-40 to 85°C (-40 to 185°F)	
Maximum depth/distance (down and forward) ¹	38.1 m (125 ft.)	76.2 m (250 ft.)
Transducer beamwidth (forward)	20 x 165 degrees	
Transducer beamwidth (down or perspective)	20 x 180 degrees	

Open-Source Software License

To view the open-source software license(s) used in this product, go to developer.garmin.com/open-source/linux/.

Cleaning the Transducer

Aquatic fouling accumulates quickly and can reduce your device's performance.

- 1 Remove the fouling with a soft cloth and mild detergent.
- 2 Wipe the device dry.

Keeping the Water Sensor Clear

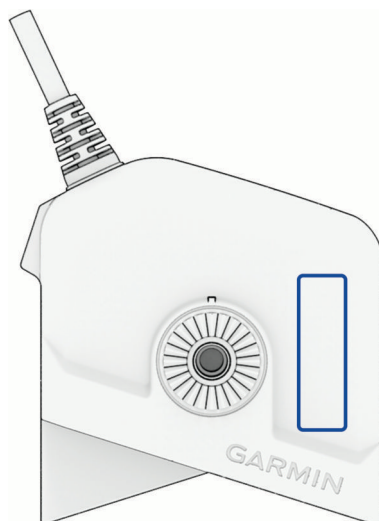
The transducer includes a water sensor that detects when the device is lowered into the water. You must keep this sensor clean and accessible for proper operation.

NOTICE

You must not install any type of protective cover or transducer case on the device that covers the water sensor. Covering the water sensor may cause the transducer to malfunction.

Remove any built-up grime near the sensor.

¹ Dependent upon water salinity, bottom type, and other water conditions.



LED Blink Codes

The LEDs on the transducer blink in different patterns to indicate operational status. There are two LEDs on the side of the transducer. The Status LED is indicated with an **S** and the Network LED is indicated with an **N**.

Status LED Codes

LED Color	State	Status
Green	Continuous blinking	The transducer is connected to a chartplotter and is operating properly. You should see sonar data on the chartplotter.
Red	Continuous blinking	The transducer has power and is awake, but is awaiting connection to a chartplotter. If the transducer is connected to a chartplotter and this code persists, check the wiring connections.
Green	Quick blink followed by a 3-second pause	The transducer has power and is in a low-power state until it receives a wake-up signal from a chartplotter.
Orange	Continuous blinking	A software update is in progress.
Red	Two blinks followed by a 3-second pause	Sonar failure.
Red	Four blinks followed by a 3-second pause	The sonar module input voltage is below the required minimum voltage.
Red	Five blinks followed by a 3-second pause	The sonar module input voltage exceeds the maximum voltage.
No light	Not applicable	The transducer is submerged, or the sonar module isn't receiving enough power. Check the wiring connections to make sure that the wire and the power source are functional and properly installed. All LEDs are disabled when the transducer detects that it is submerged. To avoid false readings, avoid touching the water detection sensor on the transducer.

Network LED Codes

LED Color	State	Status
Green	Continuous blinking	Ethernet is connected.
No light	Not applicable	Ethernet is not connected or the transducer is submerged. All LEDs are disabled when the transducer detects that it is submerged. To avoid false readings, avoid touching the water detection sensor on the transducer.

物質宣言

部件名称	有毒有害物质或元素									
	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚	邻苯二甲酸二(2-乙基己)酯	邻苯二甲酸丁苈酯	邻苯二甲酸二丁酯	邻苯二甲酸二异丁酯
印刷电路板组件	✕	○	○	○	○	○	○	○	○	○
金属零件	✕	○	○	○	○	○	○	○	○	○
电缆 电缆组件 连接器	✕	○	○	○	○	○	○	○	○	○
塑料和橡胶零件	○	○	○	○	○	○	○	○	○	○

本表格依据 SJ/T11364 的规定编制。

○: 代表此种部件的所有均质材料中所含的该种有害物质均低于 (GB/T26572) 规定的限量

✕: 代表此种部件所用的均质材料中, 至少有一类材料其所含的有害物质高于 (GB/T26572) 规定的限量

* 该产品说明书应提供在环保使用期限和特殊标记的部分详细讲解产品的担保使用条件。

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产品

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