



Source 4WRD

PAR and PARNeI Fixture Bodies

Installation and User Manual

Part Number: 7067M1220 Rev F

Released: 2022-11

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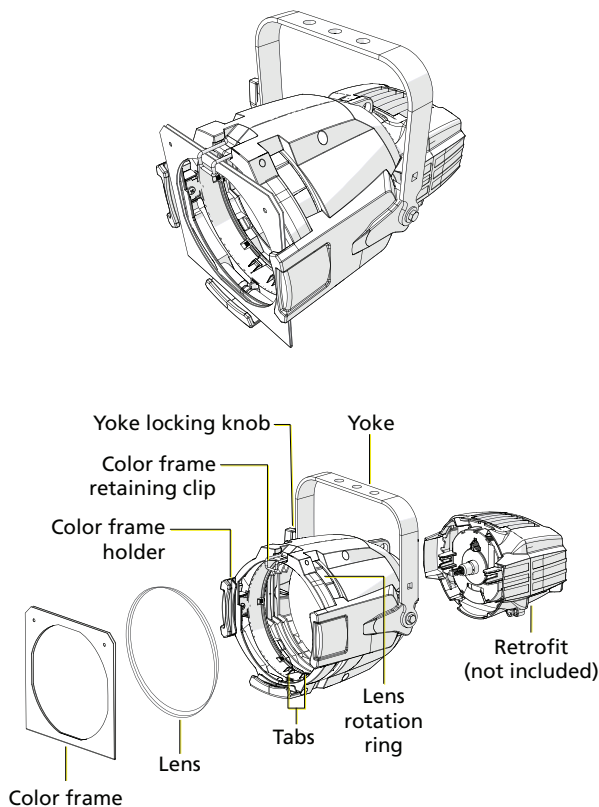
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Introduction

Use the Source 4WRD LED, Source 4WRD II LED, or Source 4WRD Color retrofit (supplied separately) with the Source 4WRD PAR or PARNel Fixture Body to create the Source 4WRD PAR or PARNel fixture.

For best results, we recommend that you use the included diffusion on the Source 4WRD PAR or PARNel Fixture Body when paired with the Source 4WRD Color.



Help from ETC Technical Services

If you are having difficulties and your problem is not addressed by this document, try the ETC support website at support.etcconnect.com or the main ETC website at etcconnect.com. If none of these resources are sufficient, contact ETC Technical Services directly at one of the offices identified below. Emergency service is available from all ETC offices outside of normal business hours.

When calling for help, take these steps first:

- Prepare a detailed description of the problem
- Go near the equipment for troubleshooting
- Find your notification number if you have called in previously

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Safety

The Source 4WRD fixture is intended for professional use only. Read the entire manual before using this equipment.



WARNING: This fixture must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.



WARNING: Note the following safety warnings before use:

- Do not mount the fixture on or near a flammable surface.
 - Do not use this fixture with a damaged power lead. If the power lead (cord set) is damaged, it must be replaced.
 - Mount and support the fixture only by the primary suspension holes in the yoke.
 - When the fixture is mounted, the axis between the yoke attachment points must be parallel to the ground. Mounting the fixture in a non-parallel orientation risks property damage or bodily injury.
 - Suspend the fixture from a suitable structure using only hardware rated for the weight of the fixture.
 - In addition to primary suspension, attach a safety cable (ETC Model 400SC or other approved safety cable or device) to the fixture housing. An appropriate attachment point (hole) is provided in the protruding tab on the fixture housing.
 - Disconnect the unit from power and DMX and allow the fixture to cool before removing or installing accessories, and before all cleaning and maintenance.
 - Do not cover the fixture with material that is used for thermal insulation.
-



AVERTISSEMENT : Prendre connaissance des avertissements de sécurité suivants avant toute utilisation :

- Ne pas installer le projecteur sur ou à côté d'une surface inflammable.
- Ne pas utiliser ce projecteur avec un cordon d'alimentation endommagé. Si le cordon d'alimentation (câble) est abîmé, il doit être remplacé.
- Installer et accrocher le projecteur uniquement par les trous de fixation principaux de la lyre.
- Lorsque le luminaire est accroché, l'axe entre les points de fixation de la lyre doit être parallèle au sol. Le montage du luminaire dans une orientation non parallèle risque de causer des dommages matériels ou corporels.
- Accrocher le projecteur à une structure convenable en utilisant seulement du matériel adapté au poids du projecteur.
- En plus de l'accroche principale, fixer une élingue de sécurité (modèle ETC 400SC ou autre câble/dispositif de sécurité certifié) au corps du projecteur. Un point d'accroche (trou) approprié est prévu dans la patte qui ressort du boîtier du projecteur.
- Déconnecter l'alimentation et le DMX et laisser le projecteur refroidir avant d'enlever ou installer l'optique découpe ou les autres adaptateurs, et avant tout nettoyage et entretien.



WARNING: RISK OF FIRE OR ELECTRIC SHOCK! Installing the Source 4WRD LED retrofit kit requires knowledge of luminaire electrical systems. If you are not qualified, do not attempt installation. Contact a qualified electrician.

AVERTISSEMENT : RISQUE D'INCENDIE OU DE DÉCHARGE ÉLECTRIQUE! Installer le nécessaire de conversion Source 4WRD LED nécessite une connaissance des systèmes électriques de projecteurs. Si vous n'êtes pas qualifié, ne tentez pas l'installation. Faire appel à un électricien qualifié.



WARNING: RISK OF FIRE OR ELECTRIC SHOCK! Install this kit only onto luminaires that have the construction features and dimensions shown in the images in this document and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.

AVERTISSEMENT : RISQUE D'INCENDIE OU DE DÉCHARGE ÉLECTRIQUE! N'installer ce kit que sur les projecteurs qui ont les caractéristiques de construction et les dimensions indiquées sur les images de ce document et où la puissance électrique nécessaire à la conversion n'excède pas la puissance maximale du projecteur.



WARNING: Note the following warnings before use:

- The Source 4WRD LED is not user serviceable. Field modification of the Source 4WRD LED will void your ETC warranty.
 - Do not use the fixture below 5°C (41°F).
 - Minimum storage temperature is 5°C (41°F). When the fixture has been stored or transported in cold temperatures, allow it to warm to room temperature for a minimum of 1 hour before applying power. Applying power to a cold fixture will cause damage to the fixture and void the ETC warranty.
 - Do not use this fixture if a glass lens is deeply scratched or cracked. Damaged lenses must be replaced.
 - To prevent wiring damage, or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
 - Use the fixture in dry locations only, where humidity does not exceed 90 percent (non-condensing). These fixtures are not intended for outdoor use.
 - Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
-



Note: *THE RETROFIT KIT IS ACCEPTABLE AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION.*

Specifications

For full product specifications, see the Source 4WRD PAR and PARNel datasheet at etconnect.com.

Weight

- Source 4WRD PAR fixture body only: 2.83 kg (6.25 lb)
- Assembled Source 4WRD PAR fixture: 4.53 kg (9.98 lb)
- Source 4WRD PARNel fixture body only: 3.49 kg (7.70 lb)
- Assembled Source 4WRD PARNel fixture: 5.18 kg (11.43 lb)

Install the Source 4WRD LED



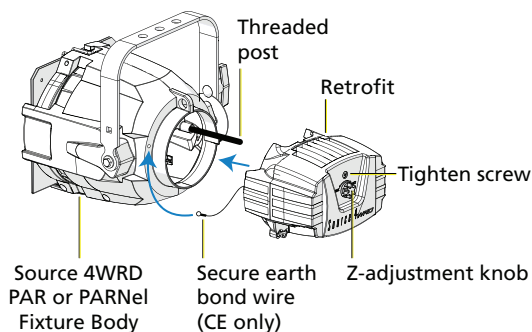
WARNING: RISK OF FIRE OR ELECTRIC SHOCK! Install the Source 4WRD LED only onto a Source 4WRD PAR or PARNel Fixture Body or Source Four ellipsoidal fixture body.

AVERTISSEMENT : Installer le kit Source 4WRD LED seulement sur un bloc lampe de projecteur PAR ou PARNel pour Source 4WRD ou sur un bloc lampe de projecteur ellipsoïdal Source Four.



CAUTION: Do not touch or clean LED emitters with anything other than oil-free canned air.

1. Use oil-free canned air to clean the LED emitters before you install the retrofit. Do not touch the LED emitters.
2. With the fixture resting securely on a flat surface, gently slide the retrofit onto the Source 4WRD PAR or PARNel Fixture Body and threaded post while guiding the LED tower into the lamp housing hole, as shown in the image below. Take care to prevent contact between the LEDs and the reflector. For the 230 V (CE) Source 4WRD LED or Source 4WRD Color (CE), secure the earth bond wire to the Source 4WRD PAR or PARNel Fixture Body using the provided screw and washer.



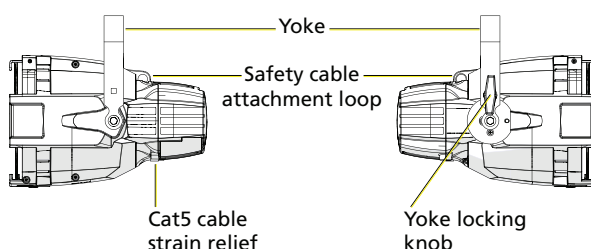
3. Use a #2 Phillips screwdriver to tighten the screw located on the back end of the retrofit, directly above the Z-adjustment knob.
4. Pull gently to verify secure attachment.

5. The Source 4WRD PAR or PARNel Fixture Body optics are optimized for PEAK focus. Turn the Z-adjustment knob toward PEAK until the knob becomes loose, and then tighten the Z-adjustment knob an additional quarter turn. This sets the LED light source into the appropriate position within the fixture.



Note: When used as part of a Source 4WRD retrofit on a Source Four ellipsoidal fixture, the Z-adjustment knob adjusts the field of the LED light for specific applications. On the Source 4WRD PAR or PARNel fixture, however, no additional adjustments are needed after you loosen the Z-adjustment knob as described above.

Attach Hanging Clamp and Safety Cable



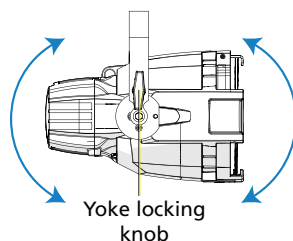
The hanging clamp attaches the fixture to the mounting pipe and allows you to adjust the position of the mounted fixture. ETC recommends using 1.5 in schedule 40 pipe.

Tightly fasten the hanging clamp to the yoke, and then connect the safety cable.

Set Up the Fixture

Set the Angle within the Yoke

1. Loosen the yoke locking knob. **Do not** remove the knob.
2. Tilt the fixture to the desired position.
3. Tighten the yoke locking knob to secure in position.



Use the Accessory Holder

The accessory holder is equipped with a spring-loaded retaining clip that prevents color frames and accessories from falling out.

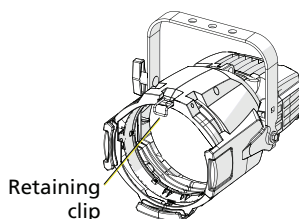
For best results, we recommend that you use the included diffusion on the Source 4WRD PAR or PARNel Fixture Body when paired with the Source 4WRD Color.



WARNING: Make sure all color frame accessories are locked in position with the retaining clip before hanging the fixture.

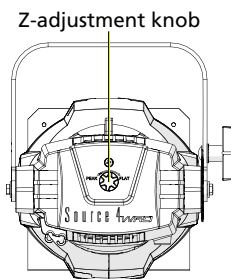
AVERTISSEMENT : S'assurer que tous les porte-filtres sont verrouillés en place à l'aide du verrouillage de la cassette avant de suspendre le projecteur.

1. Release the retaining clip by pushing it sideways while gently pulling backwards.
2. Insert the color frame or accessory.
3. Lock the retaining clip by pushing sideways while gently pushing forward.



Loosen the Z-adjustment Knob

The Source 4WRD PAR or PARNel Fixture Body optics are optimized for PEAK focus. Turn the Z-adjustment knob toward PEAK until the knob becomes loose, and then tighten the Z-adjustment knob an additional quarter turn. This sets the LED light source into the appropriate position within the fixture. After the knob is loosened, no additional adjustments are needed. See [Install the Source 4WRD LED on page 6](#) for more information.



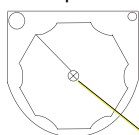
Adjust the Focus Knob (PARNel Fixtures Only)



CAUTION: *The focus knob does not rotate 360°. Do not attempt to exceed the limit of the knob.*

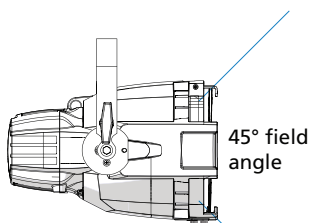
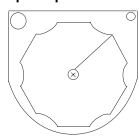
To adjust focus knob tension on a PARNel lens, loosen or tighten the focus knob screw, which is located on the bottom of the lens.

Focus knob in flood position

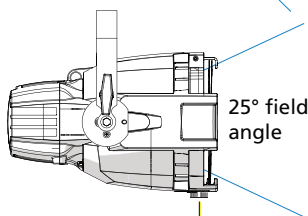


Focus knob screw

Focus knob in spot position



45° field angle



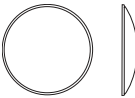
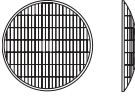
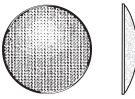
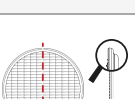
25° field angle

Focus knob

About PAR Lenses

The Source 4WRD PAR Fixture Body includes a flat lens, but the fixture can use the same lenses as the Source Four PAR. Lenses for the Source Four PAR come in five versions, and there are differences among four of the types depending on the date it was shipped. The type, or beam spread, can be identified by the lens texture.

The side view images below show the orientation in towards the fixture (→) when installing a lens. On flat lenses, the striations on the lenses should face in towards the light source.

Date	Lens (In is →)	Description	Part Number
Original lenses, phasing out beginning 8/2020		VNSP (Very Narrow Spot) • Clear glass • 15° round beam shape	7061A4002
		NSP (Narrow Spot) • Stipple glass (slight diffuse texture) • 19° round beam shape	7061A4003
		MFL (Medium Flood) • Fewer facets, sized 6x22 mm • 21° x 34° oblong beam shape	7061A4005
		WFL (Wide Flood) • Many facets, sized 6x12 mm • 30° x 51° oblong beam shape	7061A4006
Any		XWFL (Extra Wide Flood) • Extra-wide, or buxom, lens • Molded, borosilicate lens, multi-faceted • 60° round beam shape	7061A4046
New lenses, phasing in after 08/2020		VNSP (Very Narrow Spot) • Clear glass • 15° round beam shape	7061A4075
		NSP (Narrow Spot) • Light stippling • 19° round beam shape	7061A4074
		MFL (Medium Flood) • Fewer facets • Vertical axis (dashed line on image) is in the center of facets • 21° x 34° oblong beam shape	7061A4072
		WFL (Wide Flood) • Many facets • Vertical axis (dashed line on image) is between facets • 30° x 51° oblong beam shape	7061A4073

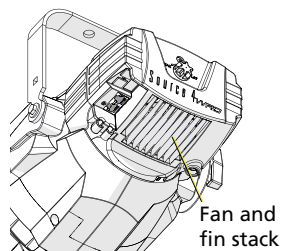
Clean and Maintain the Fixture

Clean the Fixture



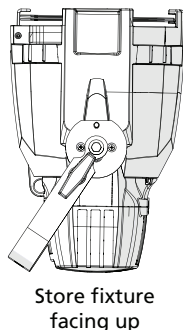
CAUTION: *Do not touch or clean LED emitters with anything other than oil-free canned air.*

- Use oil-free canned air to clean the LED emitters prior to installation and prior to storage.
- Use oil-free canned air to clean the fan and fin stack as part of regular fixture maintenance.



Store the Retrofit

- When not installed on a fixture, store the Source 4WRD LED in its original packaging or in a dust-resistant plastic bag.
- Store the Source 4WRD PAR or PARNel fixture at temperatures of 5°C (41°F) or higher.
- If you must store the fixture below 5°C (41°F), make sure it is in an upright position as shown to the right. Allow it to warm to room temperature for a minimum of one hour before applying power.



Clean the Lenses



WARNING: Do not use ammonia-based cleaners or other harsh commercial cleaners. Clean lens and reflector only as directed.

Commercially available glass cleaning agents should be avoided as they may contain ammonia, other harsh chemical detergents or abrasive agents. These cleaners may damage the glass surface and the Anti-Reflective coatings. Do not immerse or soak the glass in any cleaning solution.

Replace lenses if they contain visible damage (cracks or deep scratches) that may impair their effectiveness.

Remove any dust with a blast of oil-free air or wipe with a clean, lint-free cloth. You can use isopropyl alcohol, distilled water, or a 50%-50% mixture of each to clean the glass surface.

Change a PAR Lens



CAUTION: *Never operate the fixture without a lens in place.*



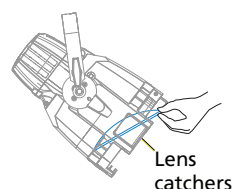
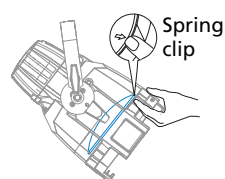
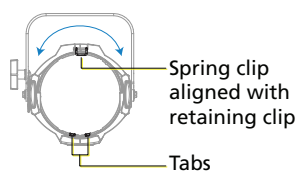
WARNING: Unplug the fixture and allow it to cool before you change a lens.

AVERTISSEMENT : Débrancher le projecteur et le laisser refroidir avant de remplacer une lentille.

Replace lenses if they become cracked or badly scratched.

Remove a PAR Lens

1. Place the fixture on a flat, stable work surface. Do not remove or install lenses with the fixture hanging.
2. Rotate the lens rotation ring so that the spring clip is at the top of the unit, aligned with the color frame retaining clip. See figure at right.
3. Tilt the front of the fixture down at least 45°.
4. Press the spring clip with your finger to release the lens. See figure at right.
5. Allow the lens to drop forward from under the clip.
6. When the lens drops, remove your finger, allowing the lens to slide forward until it rests on the lens catchers. See figure at right.
7. Carefully remove the lens.



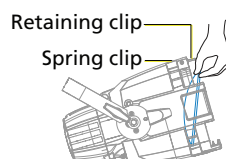
Install a PAR Lens

1. Position the fixture with the front of the unit (lens side) facing you, and tilted slightly upward.
2. Hold the lens by the edge and position it so that the side to be oriented in toward the fixture faces the rear of the fixture. (See [About PAR Lenses on page 9](#) for correct orientation of lenses.)



Note: *Installing the lens with the wrong side out will not impair the optics, but it will make removing the lens difficult.*

3. From the top of the fixture, slide the lens behind the lens catchers and position it behind the tabs on the bottom of the lens rotator ring. Gently push the top of the lens inward until it snaps behind the clip.



Change a Front PARNel Lens



CAUTION: *Never operate the fixture without a lens in place.*



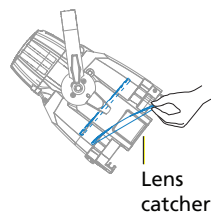
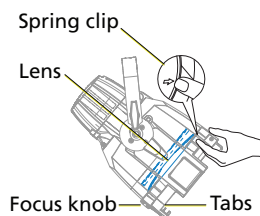
WARNING: Unplug the fixture and allow it to cool before you change a lens.

AVERTISSEMENT : Débrancher le projecteur et le laisser refroidir avant de remplacer une lentille.

Replace lenses if they become cracked or badly scratched.

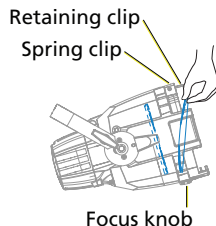
Remove a PARNel Front Lens

1. Place the fixture on a flat, stable work surface. Do not remove or install lenses with fixture hanging.
2. Rotate the focus knob to the full spot position.
3. Tilt the front of the fixture down at least 45°. See figure at right.
4. Press the spring clip with your finger to release the lens.
5. Allow the lens to drop forward from under the clip.
6. When the lens drops, remove your finger, allowing the lens to slide forward until it rests on the lens catchers. See figure at right.
7. Carefully remove the lens.



Install a PARNel Front Lens

1. Position the fixture with the front of the unit (lens side) facing you, and tilted slightly upward.
2. Rotate the focus knob to the full spot position.
3. Hold the lens by the edge and position it so that the convex side faces the rear of the fixture.

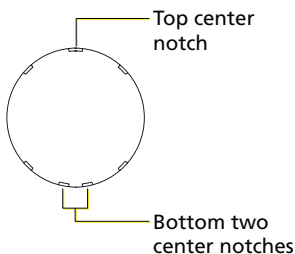


Note: *Installing the front lens with the contoured side out will not impair the optics, but it will make removing the lens difficult.*

4. From the top of the fixture, slide the lens behind the lens catchers and position it behind the tabs on the bottom of the lens rotator ring.
5. Gently push the top of the lens inward until it snaps behind the spring clip.

Position a PARNel Front Lens

1. There are seven notches cut into the stippled side of the lens. Position the lens so that the cluster of three notches is on top. The center notch of the cluster aligns with the spring clip on the lens retainer ring.
2. The bottom of the lens has a cluster of four notches. Place the two center notches behind the tabs at the bottom of the lens rotator ring.



Clean the Reflector



WARNING: Unplug the fixture and allow it to cool before you clean the reflector.

AVERTISSEMENT : Débrancher le projecteur et le laisser refroidir avant de nettoyer le réflecteur.

To quickly clean the reflector, remove the lens (see [Remove a PAR Lens on page 13](#) or [Remove a PARNet Front Lens on page 14](#)) and clean the dust from the reflector with a blast of oil-free air. You may also wipe the reflector with a clean lint-free cloth. If either method is not sufficient, follow these steps.

1. Remove the lens. See [Remove a PAR Lens on page 13](#) or [Remove a PARNet Front Lens on page 14](#).
2. To protect the Source 4WRD LED during cleaning, remove the LED housing by loosening the attachment screw and pulling the LED housing straight out. See image on [page 6](#).
3. Remove any dust with a blast of oil-free air or wipe with a clean, lint-free cloth. You can use isopropyl alcohol, distilled water, or a 50%-50% mixture of each to clean the glass surface.
4. Replace the lens. See [Install a PAR Lens on page 13](#) or [Install a PARNet Front Lens on the previous page](#).
5. Reinstall the Source 4WRD LED and tighten the attachment screw. See [Install the Source 4WRD LED on page 6](#).



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