



Franklin Electric
FUELING SYSTEMS

COMPOSITE ACCESS COVER

INSTALL GUIDE

408100001 r6

COVER MODELS

PCR090

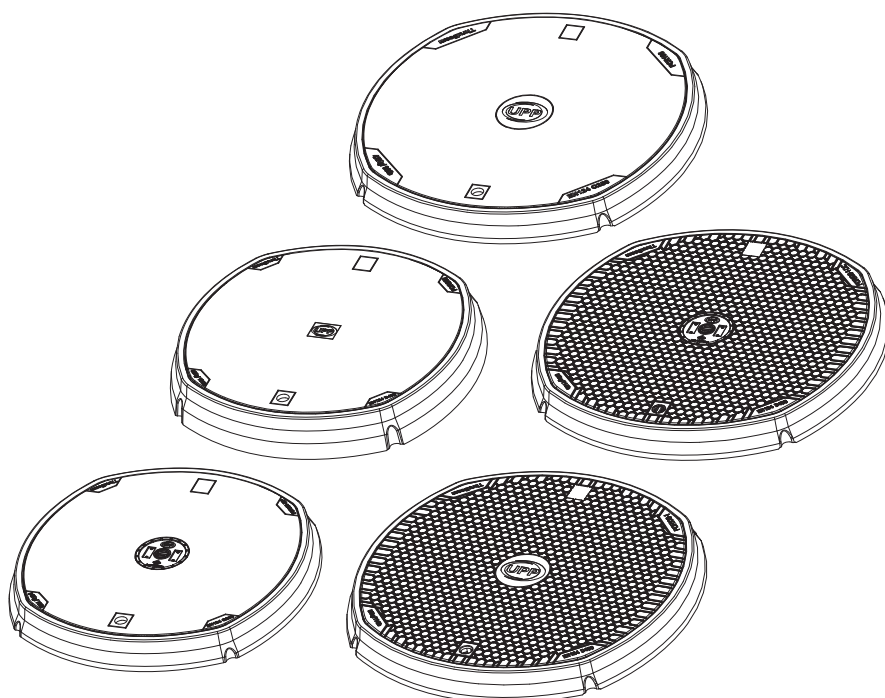
PDR090

PCR090-DIP

PCR106

PDR106-1

PDR106-1-DIP



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CONVENTIONS USED IN THIS DOCUMENT

This document includes safety precautions and other important information presented in the following format:

NOTE: This provides helpful supplementary information.

IMPORTANT: This provides important supplementary information and instructions to avoid damaging hardware or a potential hazard.

▲ CAUTION: This indicates a potentially hazardous situation that could result in minor or moderate injury if not avoided. This may also be used to alert against unsafe practices.

▲ WARNING: This indicates a potentially hazardous situation that could result in severe injury or death if not avoided.

▲ DANGER: This indicates an imminently hazardous situation that will result in death if not avoided.

OPERATING PRECAUTIONS

Franklin Electric equipment is designed to be installed in areas where volatile liquids such as gasoline and diesel fuel are present. Working in such a hazardous environment presents a risk of severe injury or death if you do not follow standard industry practices and the instructions in this document. Before working with or installing the equipment covered in this document, or any related equipment, read this entire document, particularly the following precautions:

IMPORTANT: To help prevent spillage from an underground storage tank, make sure the delivery equipment is well-maintained, that there is a proper connection, and that the fill adaptor is tight. Delivery personnel should inspect delivery elbows and hoses for damage and missing parts.

▲ CAUTION: Use only original Franklin Electric parts. Substituting non-Franklin Electric parts could cause the device to fail, which could create a hazardous condition and/or harm the environment.

▲ WARNING: Follow all codes that govern the installation and service of this product and the entire system. Always lock out and tag electrical circuit breakers while installing or servicing this equipment and related equipment. A potentially lethal electrical shock hazard and the possibility of an explosion or fire from a spark can result if the electrical circuit breakers are accidentally turned on while installing or servicing this product. Refer to this document (and documentation for related equipment) for complete installation and safety information.

▲ WARNING: Before entering a containment sump, check for the presence of hydrocarbon vapors. Inhaling these vapors may cause dizziness/unconsciousness, and if ignited, can explode causing serious injury or death. Containment sumps are designed to trap hazardous liquid spills and prevent environmental contamination, so they can accumulate dangerous amounts of hydrocarbon vapors. Check the atmosphere in the sump regularly while work is in process. If vapors reach unsafe levels, exit the sump and ventilate it with fresh air before resuming work. Always have another person standing by for assistance.

▲ WARNING: Follow all federal, state, and local laws governing the installation of this product and its associated systems. When no other regulations apply, follow NFPA codes 30, 30A, and 70 from the National Fire Protection Association. Failure to follow these codes could result in severe injury, death, serious property damage, and/or environmental contamination.

▲ WARNING: Always secure the work area from moving vehicles. The equipment in this document is usually mounted underground, so reduced visibility puts service personnel working on it in danger from moving vehicles that enter the work area. To help prevent this safety hazard, secure the area by using a service truck or other vehicle to block access to the work area.

▲ DANGER: Inspect the installation location for potential ignition sources such as flames, sparks, radio waves, ionizing radiation, and ultrasound sonic waves. If any potential ignition sources are identified, implement proper safety measures.

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1 Introduction

This guide provides information about installing the following UPP® composite access cover models: PCR106, PCR106-DIP, PDR106-1, PDR106-1-DIP, PCR090, PCR090-DIP, and PDR090.

1.1 Documentation

- This document is intended for qualified and certified installation persons.
- Instructions of this document are in English. All other language versions are translations of this original document.
- Illustrations in this document show a typical setup and are for instruction and description purposes only.
- Information given in this document is given as a guide only. It is the installer's responsibility to ensure that correct and safe procedures are followed at all times.
- This document and related documents are available from Franklin Electric at www.franklinfueling.com.

1.1.1 Symbol Legend



Wear Protective Headwear



Wear Eye Protection



Wear Protective Clothing



Wear High-Visibility Clothing



Wear Protective Gloves



Wear Safety Footwear



Refer to instruction guide



Ventilate Before & During Entering



Ensure Continuous Ventilation



Connect an earth terminal to the ground



Lockout/Tagout Electrical Equipment



Disconnect main plug from electrical outlet



Disconnect before carrying out maintenance or repair



General Warning



Warning: Industrial vehicles



Warning: Electricity



Warning: Flammable Material



No open flame; Fire, open ignition source and smoking prohibited

2 Safety/Security

2.1 General Safety Information

- Procedures in this document are only to be performed by people qualified and certified to perform them.
- Personnel working on or with energized equipment must be authorized by relevant regulatory bodies to carry out such work and must have the appropriate training. Check with your employer and relevant regulatory body's rules for working with energized equipment.
- Obey all local laws, rules, regulations, and instructions in this document. In case of inconsistency or contradiction between information contained in this document and any laws, rules and regulations, obey the stricter of the two.
- Keep unqualified personnel at a safe distance during installation.
- If it is necessary to remove safety/security devices, immediately reinstall the safety/security devices after completing the work.

2.2 Documentation Availability

2.2.1 Station Owner or Operator

Save this guide for future use, and make sure to provide it to anyone who services this equipment.

2.2.2 Miscellaneous

Always reference the guide(s) that came with the equipment for the most current and complete list of installation and safety precautions.

2.3 Hazard Assessment

Prior to beginning work and prior to recommencing work after leaving and returning to the worksite, a worksite, *pre-job hazard assessment* must be performed to identify safety and environmental needs. At a minimum, this hazard assessment should:

- Identify possible hazards and risks.
- Identify the safety needs of the job.
- Identify the correct procedures, practices and equipment.
- Eliminate unsafe conditions and actions from the worksite.
- Identify the need for personal protective equipment.
- Inspect equipment before use.
- Confirm sheaths of all cables are secured and undamaged.
- Confirm plugs and connectors are properly connected and serviceable.
- Perform ongoing risk assessment during the project.

2.4 Required Personal Protective Equipment (PPEs)

These PPEs are required during all phases of installation.



Wear Protective Clothing



Wear Eye Protection



Wear High-Visibility Clothing



Wear Protective Gloves



Wear Protective Headwear



Wear Safety Footwear

3 Pre-Installation Overview

3.1 Upon Receipt of Item(s)

- Verify all items are in accordance with the order.
- Check all items for damage.
- If any item shows damage or is not in accordance with the order, inform Franklin Electric *immediately*.
- Remove the packaging material.
 - Follow all local laws, rules and regulations regarding disposal of discarded parts, packaging material or items and any subsequent components.

3.2 Parts & Accessories

COMPOSITE ACCESS COVERS

Part Number	Description
PCR090	35" (900 MM) composite access cover, C250 rating
PDR090	35" (900 MM) composite access cover, D400 rating
PCR090-DIP	35" (900 MM) composite access cover with integrated dip inspection port, C250 rating
PCR106	42" (1,060 MM) composite access cover, C250 rating
PDR106-1	42" (1,060 MM) composite access cover, D400 rating
PCR106-DIP	42" (1,060 MM) composite access cover with integrated dip inspection port, C250 rating
PDR106-1-DIP	(1,060 MM) composite access cover with integrated dip inspection port, D400 rating
PCR-DIPCAP	Replacement dip cap for composite access covers
PCR106-DIP-006	Dip cap seal
PCR-LIFT	Lifting handle tool for composite access covers
PCR-LOCK	Locking mechanism for composite access covers
PCR-PLUG	Security plug for composite access covers
SDFLX40FC	Sealant (to seal access cover frame to skirt)

35" (900 MM) COMPOSITE ACCESS COVER ACCESSORIES

Part Number	Description
PDR090-S	Replacement seal for 35" (900 MM) composite access covers (between lid and frame)
PXR090-OCH-SK	35" (900 MM) fiberglass skirt, for use with OCH-1400 tank chambers
PXR-090-OCH-EXT-SK	
PXR090-OCH-1450-SK	

42" (1,060 MM) COMPOSITE ACCESS COVER ACCESSORIES

Part Number	Description
PCR106-S	Replacement seal for 42" (1,060 MM) composite access covers (between lid and frame)
PCR106-OCH1400-SK	42" (1,060 MM) fiberglass skirt, for use with OCH tank chambers
PCR106-TSM4542-SK	42" (1,060 MM) fiberglass skirt, for use with TSM tank chambers

4

Installation



⚠ WARNING: This product may allow exposure to chemicals, including styrene, that are known to the State of California to cause cancer. For more information, go to “www.P65Warnings.ca.gov.”

⚠ CAUTION:

- Heavy items should be lifted by authorised personnel using appropriate lifting equipment.
- Make sure all safety data is accessed during the product installation. Material safety data sheets (MSDS) are available on the internet.

IMPORTANT: Franklin Electric equipment must be installed only by fully trained and certified installers. *Failure to follow installation instructions will invalidate the warranty and installer certification.*

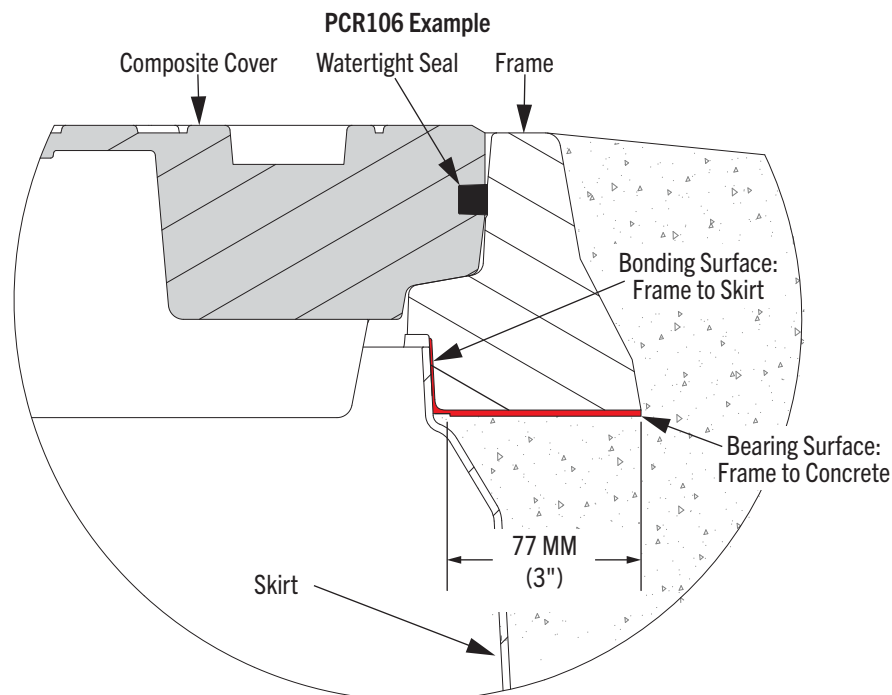
NOTE: When the installation is complete, make sure this guide is left with the service station owner or operator.

4.1

Install Instructions

IMPORTANT:

- Make sure the frame and cover are not damaged before you begin the installation.
- When lifting cover(s) out of or onto the frame, ***fully lift the cover(s)*** ensuring the ***watertight seal is not damaged***.



4.1.1 Prepare The Product

1. Remove the protective packaging from the cover, and place the cover on a clean, level surface.
2. Remove the cover from the frame.
3. Abrade and clean the areas that will be bonded with Acetone.
4. Use SoudaFlex™ 40FC bonding agent to attach the frame to the skirt. Make sure the skirt fully engages the inner lip of the frame.
5. Allow the skirt and frame to bond fully before continuing. (Refer to the MSDS for the bonding agent).

4.1.2 Prepare The Area

IMPORTANT: Frame underside must be *fully supported and level* all the way around on a minimum of 7.875" (200 MM) thick concrete.*

1. Place the skirt on top of the backfill, and take account of how deep the frame is buried and the desired finished surface level.
2. Allow a minimum of 2.25" (56 MM) clearance between the bottom of the skirt and the wider extending section of the tank sump/chamber to allow for tank movement.
3. Allow a minimum of clearance between the bottom face of the access cover and the top face of the tank sump/chamber lid.
4. Backfill around the area of the skirt to secure its position.

4.1.3 Prepare The Forecourt Surface

*Franklin Electric recommends a minimum finished base thickness of 7.875" (200 MM) in C 30-35 concrete to achieve maximum load capabilities of EN124 D400 covers.

Crown the Cover

- To improve the dispersion of water away from the cover, crown the cover slightly above the finished surface level. Typically, a crown of 0.2–0.4" over a distance of 12" (5–10 MM over 300 MM) around the perimeter of the cover is effective.
- In areas with over average or extreme rainfall, crown may be extended to .59" over a distance of 12" distance (15 MM over 300 MM) to improve surface water run off.

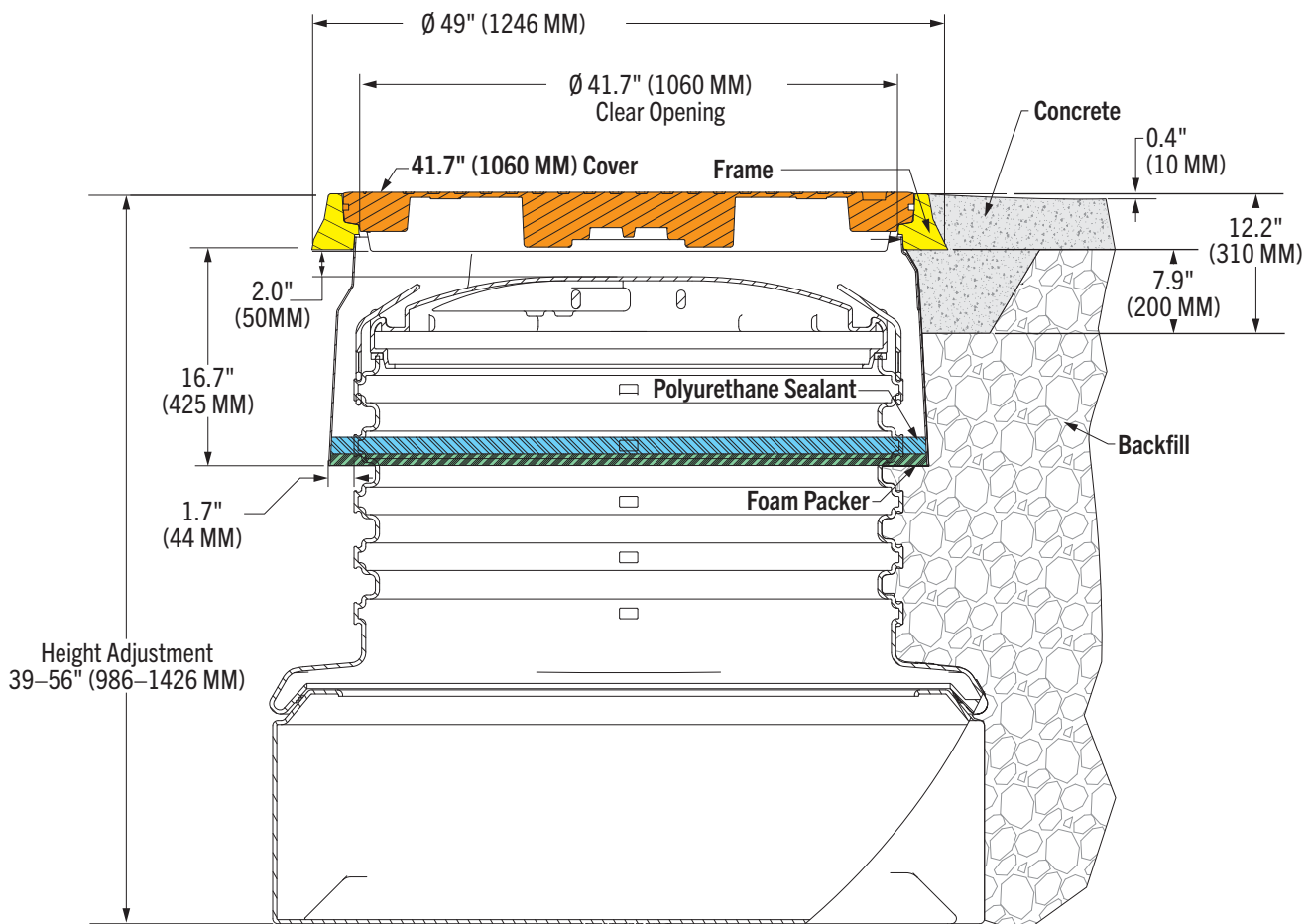
4.1.4 Apply A Two-Part, Cold-Pour Sealing Compound

IMPORTANT:

- In areas with a high water table, you can use a foam blocker to stop water from coming in before you apply a two-part, cold-pour sealing compound.
- Make sure you apply the two-part, cold-pour sealing compound below the toggles. This allows you to replace the toggles, if necessary, without disrupting the seal.
- Frame underside must be supported on a minimum of 7.9" (200 MM) of concrete.

Procedure

1. Do one of the following:
 - a. Fit a packing piece between the skirt & chamber riser on top of the backfill.
 - b. Cover the backfill with a layer of well compacted sand.
2. Apply a two-part, cold-pour sealing compound (example: CM200PF). Allow the compound to cure for the recommended time. (See the compound's MSDS.)
3. Clean the cover and frame thoroughly to remove excess concrete. Give special care to the area around the seal and the corresponding sealing face of the cover.



5 Maintenance

IMPORTANT:

- When lifting cover(s) out of or onto the frame, *fully lift the cover(s) ensuring the watertight seal is not damaged.*
- Thorough cleaning of seals, frame seating face, and cover edges at each lift is essential. *Damaged or missing seals and missing key housing security plugs should be immediately replaced.*

NOTE: Composite access cover seals are replaceable & are considered a service spare.

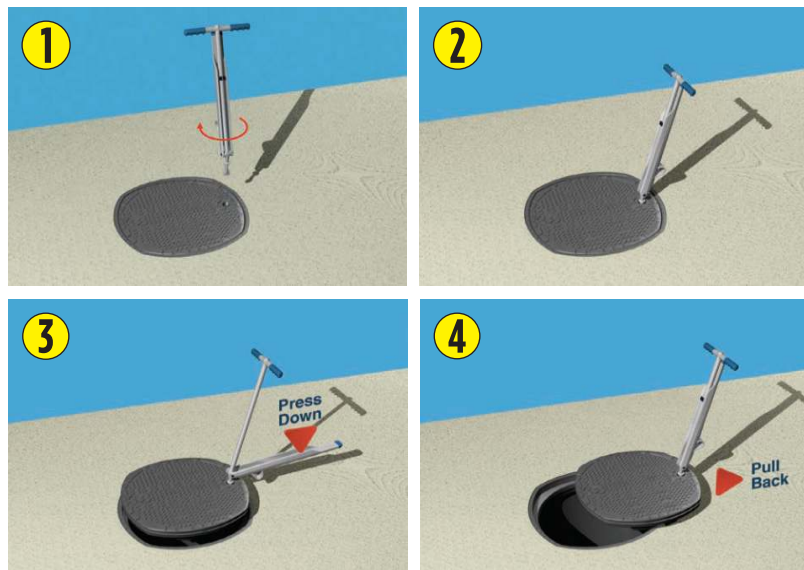
5.1 Cover Removal & Replacement

IMPORTANT:

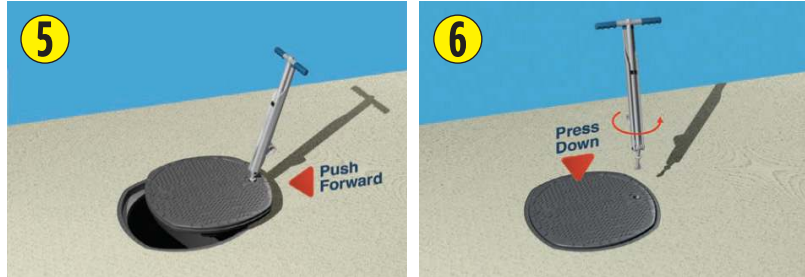
- DO NOT throw off the back of vehicles; *covers and frames must be LIFTED and placed on the ground.*
- DO NOT roll or drop covers or frames.
- Care should be taken to ALWAYS clean the seating face of the frame before the cover is inserted.
- ALWAYS wear proper personal protective equipment to prevent injury.

Procedure

1. Insert the lifting tool into the lock aperture as shown and turn the handle through 90 degrees clockwise towards you.
2. With the handle facing towards you, the cover lock is now disengaged and ready to be removed from its frame.
3. Release the seal breaker from the lifting tool and press down on the foot pedal to release the cover from its frame.
4. Fold back the seal breaker into the lifting tool. Lift the edge of the cover until it is free of the frame. Pull the cover out of the frame.



5. Using the lifting tool, push the cover back into the frame by carefully aligning the cover with the frame and lifting the rear edge of the cover slightly before lowering it into the frame to avoid damage to the seal. Step down on the cover to re-engage the seal.
6. Turn the lifting tool back through 90 degrees counter clockwise to engage the lock and remove the lifting tool.



5.2 Cover Seals

1. Remove the existing seal.
2. Clean all of the silicone mastic out of the sealing channel.
3. Apply a continuous bead of silicone mastic in the channel as bedding.
4. Install the new seal by:
 - a. Ensuring correct orientation.
 - b. *Carefully and gently tap* the new seal into position with a *rubber faced hammer only*.

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Notes



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FUELING SYSTEMS