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<tr>
<th>Tip Design</th>
<th>Gauge/Size</th>
<th>Pinnacle 360°™</th>
<th>Syntrifugal™</th>
<th>Disposable Tips</th>
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WE FOCUS ON OUR CUSTOMERS' BOTTOM LINE SO THEY CAN FOCUS ON THEIR PATIENTS.
Pinnacle 360° is our line of fully disposable, hand-held retinal surgical instruments. As its name suggests, the Pinnacle 360° product line is at the top of its class in both quality and value. With Pinnacle 360°, surgeons can expect safe, consistent performance on every case.

Pinnacle 360° offers the widest variety of disposable tip options.

Additional benefits include:

- 360° actuation to approach the retina from any angle
- Ergonomic design to reduce fatigue
- Color coded handles for gauge identification

Available in 20ga, 23ga, 25ga and 27ga
The Syntrifugal line provides surgeons with the best of both worlds — a reusable titanium handle with a disposable tip. Surgeons enjoy consistent tactile feel with the freedom to choose from a comprehensive selection of disposable tips.

Additional benefits include:

- Large and small handle options
- Handle design allows the tip to rotate 360°

Disposable tips available in 20ga, 23ga, 25ga and 27ga.
**Disposable Options**

### ILM Forceps [Sterile, 5/Box]

- **Fine Tip Eckardt**
  - Thinner tip than standard Eckardt provides better view and positioning with similar grasping characteristics
  - Available in Pinnacle 360°™ and Syntrifugal™ handle configurations
  - Available in 23ga and 25ga

- **Eckardt**
  - Nail-like platforms and microserrations for precise, optimum grasping
  - Available in Pinnacle 360°™ and Syntrifugal™ handle configurations
  - Available in 20ga, 23ga, 25ga, and 27ga

- **Tano Asymmetrical**
  - Excellent for fine membranes and more aggressive membranes of diabetic retinopathy
  - Available in Pinnacle 360°™ and Syntrifugal™ handle configurations
  - Available in 20ga, 23ga, 25ga, and 27ga

- **End-Grasping**
  - Tweezer-like platforms suitable for pinch and peel technique
  - Available in Pinnacle 360°™ handle configuration
  - Available in 20ga, 23ga, and 25ga

- **Microserrated™ End-Grasping**
  - Thinner tip than the standard end-grasping provides better view and microserrated™ provide a superior grasping surface
  - Available in Pinnacle 360°™ handle configuration
  - Available in 23ga and 25ga

- **Morris/Witherspoon Fullview ILM**
  - Curved bottom conforms to the epiretinal surface and small cutout offers unobstructed view
  - Available in Syntrifugal™ handle configuration
  - Available in 20ga and 25ga

### Heavy Membrane Forceps [Sterile, 5/Box]

- **Pyramid Tip**
  - Pointed tip for fine grasping and a broad base for coarse grasping
  - Available in Pinnacle 360°™ and Syntrifugal™ handle configurations
  - Available in 20ga, 23ga, and 25ga

- **Serrated Jaw**
  - Blunt, atraumatic serrations prevent shredding tissue
  - Available in Pinnacle 360°™ handle configuration
  - Available in 20ga, 23ga, and 25ga

- **Apte Corset**
  - Wide platform allows for removal of membranes in a single maneuver without traumatizing the retina
  - Available in Pinnacle 360°™ handle configuration
  - Available in 23ga and 25ga

- **Tewari Omnicep**
  - Fine enough for ILM work, but sturdy enough for ERM and PVR membranes
  - Available in Pinnacle 360°™ and Syntrifugal™ handle configurations
  - Available in 23ga and 25ga

### Dual Purpose Forceps [Sterile, 5/Box]

- **Refer to reference guide for catalog number info.**
FOREIGN BODY  [STERILE, 5/BOX]

BB Removal
• Specifically designed for grasping all standard BBs without slippage up to 4.5 mm
• Available in Pinnacle 360°™ handle configuration
• Available in 18ga

Forceps
• Jaws excellent for grasping large, irregular shaped foreign bodies
• Available in Pinnacle 360°™ handle configuration
• Available in 19ga

Magnet
• Designed for removal of iron or steel foreign bodies
• Available in Pinnacle 360°™ handle configuration
• Available in 18ga

PICK FORCEPS  [STERILE, 5/BOX]

Ducournau Serrated
• Unique tip provides pick / serrated jaw for superior membrane removal
• Available in Syntrifugal™ handle configuration
• Available in 20ga

Pick
• Great gripping platform and superior functionality with integrated pick
• Available in Pinnacle 360°™ handle configuration
• Available in 20ga, 23ga, and 25ga

SCISSORS  [STERILE, 5/BOX]

Horizontal Curved
• Curved back to minimize "heeling in" - safe on surface of retina
• Available in Pinnacle 360°™ and Syntrifugal™ handle configurations
• Available in 20ga, 23ga, and 25ga

Vertical
• Curved heel minimizes inadvertent contact with retina and conforms to eye
• Available in Pinnacle 360°™ handle configuration
• Available in 20ga, 23ga, and 25ga

Refer to reference guide for catalog number info.
Our fully reusable Premium line delivers unparalleled consistency and performance. Surgeons enjoy the familiar comfort and reliability of working with the same superior set of tools on every case.

Additional benefits include:

- Large and small handle options
- Blackened stainless steel tips reduce glare
- Etched serial numbers for quick and easy identification
- Linear closure
- Microserrations™ offered for select tip styles

Tips available in 20ga, 23ga, 25ga and 27ga.
Our Apex line is an excellent option for surgeons who prefer the benefits of reusable instrumentation, but at a more conservative price point. Apex instruments provide surgeons with a single-piece titanium handle and access to our comprehensive line of reusable tips, at a lower cost than our Premium line.

Additional benefits include:

- Solid, one-piece, titanium handle design
- Etched serial numbers for quick and easy identification
- Linear Closure

Tips available in 20ga, 23ga, 25ga and 27ga.
### Reusable Options

#### ILM FORCEPS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Configuration</th>
<th>Gauges</th>
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<tbody>
<tr>
<td>Fine Tip Eckardt</td>
<td>Thinner tip than standard Eckardt provides better view with similar grasping characteristics</td>
<td>Premium and Apex</td>
<td>23ga, 25ga</td>
</tr>
<tr>
<td>Eckardt</td>
<td>Nail-like platforms and microserrations for precise, optimum grasping, excellent for ILM pinch and peel technique</td>
<td>Premium and Apex</td>
<td>20ga, 23ga, 25ga</td>
</tr>
<tr>
<td>Tano Asymmetrical Micro</td>
<td>Excellent for fine membranes and more aggressive membranes of diabetic retinopathy</td>
<td>Premium and Apex</td>
<td>20ga, 23ga, 25ga</td>
</tr>
<tr>
<td>Tano Asymmetrical Peeling</td>
<td>Larger jaws minimize shredding</td>
<td>Premium and Apex</td>
<td>20ga</td>
</tr>
<tr>
<td>Morris/Witherspoon Fullview ILM</td>
<td>Curved bottom conforms to the epiretinal surface</td>
<td>Premium and Apex</td>
<td>20ga, 25ga</td>
</tr>
<tr>
<td>Pincer End Grasping</td>
<td>Precise grasping while providing optimum viewing</td>
<td>Premium and Apex</td>
<td>20ga, 23ga</td>
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<tr>
<td>Pointed Micro</td>
<td>Ultra-fine pointed tips are ideal for stripping delicate membranes</td>
<td>Premium and Apex</td>
<td>20ga, 23ga</td>
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<tr>
<td>Lambert ILM</td>
<td>No platforms at tips allows grasping force to be spread over entire length of jaws, eliminating focalized pressure and membrane shredding</td>
<td>Premium</td>
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#### HEAVY MEMBRANE FORCEPS

<table>
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<td>End Gripping</td>
<td>Broad platforms useful on all types of membranes</td>
<td>Premium and Apex</td>
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<td>Pyramid Tip</td>
<td>Pointed tip for fine grasping and a broad base for coarse grasping</td>
<td>Premium and Apex</td>
<td>20ga, 23ga, 25ga</td>
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<tr>
<td>Serrated Jaw</td>
<td>Blunt, atraumatic serrations prevent shredding tissue</td>
<td>Premium and Apex</td>
<td>20ga</td>
</tr>
</tbody>
</table>

Refer to reference guide for catalog number info.
**DUAL PURPOSE FORCEPS**

- **Apte Corset**
  - Wide platform allows for removal of membranes in a single maneuver without traumatizing the retina
  - Available in Premium and Apex handle configurations
  - Available in 23ga and 25ga

- **BB Removal**
  - Specifically designed for grasping all standard BBs without slippage
  - Available in Premium handle configuration
  - Available in 18ga

- **Foreign Body**
  - Jaws excellent for grasping large, irregular shaped foreign bodies
  - Available in Premium handle configuration
  - Available in 18ga

- **Magnet**
  - Designed for removal of iron or steel foreign bodies
  - Will pick up a steel ball up to 16mm in diameter
  - Available in Premium handle configuration
  - Available in 19ga

**FOREIGN BODY**

- **De Juan / Tano Serrated Pick**
  - Effective at lifting and peeling large membranes
  - Available in Premium and Apex handle configurations
  - Available in 20ga

- **Ducournau Serrated**
  - Unique tip provides pick / serrated jaw for superior membrane removal
  - Available in Premium and Apex handle configurations
  - Available in 20ga

- **Pick**
  - Great gripping platform and superior functionality with integrated pick
  - Available in Premium and Apex handle configuration
  - Available in 20ga, 23ga, and 25ga

**PICK FORCEPS**

- **Horizontal Large Curved**
  - Two moving blades minimize tissue expulsion at an optimal angle for membrane stripping and delamination
  - Available in Premium and Apex handle configurations
  - Available in 20ga

- **Horizontal Medium Curved**
  - Two moving blades minimize tissue expulsion at an optimal angle for membrane stripping and delamination
  - Available in Premium and Apex handle configuration
  - Available in 20ga

- **Horizontal 1.3mm Blades 55°**
  - Two moving blades minimize tissue expulsion at an optimal angle for membrane stripping and delamination
  - Available in Premium and Apex handle configurations
  - Available in 20ga

- **Horizontal 2.5mm Blades 55°**
  - Two moving blades minimize tissue expulsion at an optimal angle for membrane stripping and delamination
  - Available in Premium and Apex handle configuration
  - Available in 20ga

- **Horizontal Large Curved**
  - Optimal curve for epiretinal membrane delamination
  - Available in Premium and Apex handle configuration
  - Available in 20ga

- **Horizontal Medium Curved**
  - Curved back to minimize “heeling in” safe on surface of retina
  - Available in Premium and Apex handle configuration
  - Available in 20ga, 23ga, and 25ga

**SCISSORS**

- **Horizontal 1.3mm Blades 55°**
  - Two moving blades minimize tissue expulsion at an optimal angle for membrane stripping and delamination
  - Available in Premium and Apex handle configurations
  - Available in 20ga

- **Horizontal 2.5mm Blades 55°**
  - Two moving blades minimize tissue expulsion at an optimal angle for membrane stripping and delamination
  - Available in Premium and Apex handle configuration
  - Available in 20ga

- **Horizontal Large Curved**
  - Optimal curve for epiretinal membrane delamination
  - Available in Premium and Apex handle configuration
  - Available in 20ga

- **Horizontal Medium Curved**
  - Curved back to minimize “heeling in” safe on surface of retina
  - Available in Premium and Apex handle configuration
  - Available in 20ga, 23ga, and 25ga

**Refer to reference guide for catalog number info.**
SCISSORS (cont.)

Microserrated™ Horizontal Scissors Medium Curved
- Microserrations secure membrane during cutting to reduce expulsions
- Available in Premium handle configuration
- Available in 20ga, 23ga, and 25ga

Horizontal Small Curved
- Smaller curve size makes it excellent for the anterior periphery during PVR
- Available in Premium and Apex handle configurations
- Available in 20ga

Morris Horizontal
- Microserrations enhance grasping ability and eliminate tissue ejection while cutting and the curve conforms to interior wall
- Available in Premium and Apex handle configuration
- Available in 20ga

Morris Vertical
- Curved heel minimizes inadvertent contact with retina and conforms to eye
- Available in Premium and Apex handle configurations
- Available in 20ga, 23ga, and 25ga

Straight
- Ideally suited for releasing traction on severe retinal folds from the opposite side
- Available in Premium and Apex handle configurations
- Available in 20ga and 23ga

Sweeper 1.7mm 55°
- Single moving sweeping blade at an optimum angle for epiretinal membrane stripping
- Available in Premium handle configuration
- Available in 20ga

Tano Vertical
- Profile allows for better segmentation performance
- Available in Premium and Apex handle configuration
- Available in 20ga

Vertical
- Classic vertical scissors for segmentation of PDR and PVR membranes
- Available in Premium and Apex handle configurations
- Available in 20ga

Witherspoon Vertical
- Unique blade configuration allows membrane to remain on lower blade when cutting, eliminating repeat capturing of membrane
- Available in Premium and Apex handle configuration
- Available in 20ga

Refer to reference guide for catalog number info.
SUBRETINAL INSTRUMENTS

**Thomas Horizontal Forceps**
- Enhanced gripping with horizontal profile to minimize subretinal trauma
- Available in Premium and Apex handle configurations
- Available in 20ga

**Thomas Vertical Forceps**
- Effective in subfoveal nets post laser treatment
- Available in Premium and Apex handle configurations
- Available in 20ga

**Thomas Horizontal Scissors, 135°**
- Blades move toward the center for better control with minimal tissue expulsion
- Available in Premium and Apex handle configuration
- Available in 20ga

**Thomas Vertical Scissors**
- Single moving blade minimizes retinotomy enlargement
- Available in Apex handle configurations
- Available in 20ga

Lambert Horizontal Sweeper Scissors
- Single moving blade minimizes retinotomy enlargement
- Available in Premium handle configurations
- Available in 20ga

ILLUMINATED INSTRUMENTS

**Illuminated End Gripping Forceps**
- Features large grasping platforms to prevent shredding of tissue
- Available in Premium and Apex handle configurations
- Available in 20ga

**Illuminated Microserrated™ End Gripping Forceps**
- Microsserrations ensure maximum grasping
- Available in Premium handle configuration
- Available in 20ga

**Illuminated Micro Forceps**
- Pointed, fine platform tips for ultimate visibility
- Available in Premium and Apex handle configurations
- Available in 20ga

**Illuminated Horizontal Scissors**
- Curved back to minimize “heeling in” — safe on surface of retina
- Available in straight and small curved
- Available in Premium and Apex handle configurations
- Available in 20ga

*Refer to reference guide for catalog number info.*
SCLERAL MARKERS

Awh Horseshoe
- 51.45
- Marked at 3mm and 4mm
- Specifically designed to stabilize cannula

Chow
- 51.25
- Marked at 3mm and 4mm

REUSABLE PICKS AND SPATULAS

Rice ILM Elevator, 127°
- 20.02, 20.02.23 and 20.02.25
- Available in 20ga, 23ga and 25ga
- .20mm at tip

AWH Serrated Pick, 135°
- 20.41, 20.41.23 and 20.41.25
- Available in 20ga, 23ga and 25ga
- .30mm at tip

Michels’ Hook, 90°
- 28.21
- Available in 20ga
- .20mm at tip

Thomas Hyloid Lifter
- 20.03
- Available in 20ga
- .20mm at tip

Shiraga Pick, 110°
- 20.31
- Available in 20ga
- 23ga
- .20mm at tip

Membrane Pick 110°, 130°, 150°
- 28.01, 28.02 and 28.03
- Available in 20ga
- 27ga
- .41mm at tip

Morris Pick
- 20.51
- Available in 20ga
- 23ga
- .20mm at tip

Membrane Peeler, Spherical Tip, 110°
- 28.04
- Available in 20ga
- 30ga
- .30mm at tip

Thomas Subretinal Perforator/ Spatula 36ga, 131°
- 20.01
- Available in 20ga
- 36ga
- .10mm at distal tip

Irrigating Spatula, 120°
- 28.30
- Available in 20ga
- 24ga
- .55mm at tip

Thomas Blunt 36ga Subretinal Perforator Spatula, 131°
- 20.30
- Available in 20ga
- 36ga
- .20mm at tip

Michels’ Spatula, 90°
- 28.22
- Available in 20ga
- 22ga
- .7mm at tip
REUSABLE PICKS AND SPATULAS (cont.)

Lewis 33ga Subretinal Perforator, 90°
- 26.01
- Available in 20ga
- 36ga
- .20mm at tip

Lewis 33ga Subretinal Perforator, 135°
- 27.01
- Available in 20ga
- 36ga
- .20mm at tip

Rounded Tip Spatula, 140°
- 28.07
- Available in 20ga

Membrane Rake, Flat Tip, 140°
- 28.05 and 28.06
- Available in 20ga
- Available in flat or curved tip

REUSABLE CANNULAS AND NEEDLES

Reflux Handle
- 31.00
- For use with products 30.01-30.09 and 30.76

Blunt Extrusion Needle
- 30.01
- Available in 20ga

Tapered Blunt Extrusion Needle
- 30.02
- 27ga
- .40mm tip

Brush Cannula Tip, Straight
- 30.06
- Available in 20ga

Brush Cannula Tip, Curved
- 30.07
- Available in 20ga

Soft Tip Cannula
- 30.08
- Available in 20ga

Resnick Subretinal Fluid Drainage Needle
- 30.09
- Available in 25ga
- 25ga
- 2.5mm long 1mm bevel

Metal Locking Luer-Hub Needle
- With products in this section

Replacement Reflux Reservoir
- 31.01 — 2/box, 31.02 — 10/box
- Available with 2 or 10/box
REUSABLE CANNULAS AND NEEDLES (Cont.)

Thomas Subretinal 30ga Needle
- 02.03
- Available in 20ga tips
- 30ga
- .30mm tip

Chang Perfluorocarbon Cannula
- 08.01
- Available in 20ga tips
- 25ga
- .50mm tip

Thomas Subretinal 33ga Sharp Bent Cannula
- 12.01
- Available in 20ga tips
- 33ga
- .20mm tip

Thomas Subretinal 33ga Cannula
- 13.01
- Available in 20ga tips
- 33ga
- .20mm tip

Lewis Subretinal 33ga TPA Cannula, 135°
- 14.01
- Available in 20ga tips
- 33ga
- .20mm tip

Lewis Subretinal 33ga TPA Cannula, 90°
- 15.01
- Available in 20ga tips
- 33ga
- .20mm tip

White Autoclavable Handle
REUSABLE CANNULAS AND NEEDLES (Cont.)

Autoclavable Handle with Slide

DISPOSABLE CANNULAS AND NEEDLES

Universal Soft Tip Needle
- 30.10 and 30.10.23
- Available in 20ga and 23ga
- 6/box

Fenestrated Universal Soft Tip Needle
- 30.11.23
- Available in 23ga
- 6/box

Rigid Micro Injection Cannula, Straight
- 12.02 and 12.03
- Available in 20ga
- 10mm at tip
- Black, disposable handle
- 5/box
- Available in 39ga and 42ga

Rigid Micro Injection Cannula, Angled
- 12.12 and 12.13
- Available in 20ga
- 10mm at tip
- Black, disposable handle
- 5/box
- Available in 39ga and 42ga

De Juan/Awh Subretinal Injection
- 12.03.25
- Available in 25ga
- 41ga tip
- 10mm at tip
- 5/box

Soft Tip Cannula
- 30.08.23 and 30.08.25
- Available in 21ga and 25ga
- 6/box

Vitreoretinal Soft Tip
- 30.76
- For use with 31.00 handle
- Available in 20ga
- 3mm tubing length
- 3mm flexible silicone
- 10/box

Transconjunctival Chow Silicone Oil Injection Cannula
- 30.80.25
- Available in 25ga
- 6/box
DISPOSABLE BACKFLUSH INSTRUMENTS

Disposable Backflush Handle

Blunt Tip
- D31.01
- Available in 20ga
- 5/box

Brush Tip
- D31.06
- Available in 20ga
- 5/box

Soft Tip
- D31.08
- Available in 20ga, 23ga and 25ga
- 5/box

INSTRUMENT TRAYS

Small
- 28.25
- 6" x 2" x .75".
- 15.2cm x 5.1cm x 1.9cm
- Holds 2 picks or 1 instrument

Large
- 23101
- 15" x 10" x .75"
- 38.1cm x 25.4cm x 1.9cm
- Holds 25 instruments

Medium
- 23102
- 10" x 6" x .75"
- 25.4cm x 15.2cm x 1.9cm
- Holds 10 picks or 6 instruments

Diamond Knife
- 23103
- 7.5" x 2.6" x .75"
- 19.1cm x 6.6cm x 1.9cm
- Holds 1 diamond knife

All Synergetics™ tip protectors are autoclavable and will protect your instrument during storage and sterilization.
TIP PROTECTORS

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<tr>
<th>Product</th>
<th>Price</th>
<th>Description</th>
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<tr>
<td>Tip Protector, Handled Cannula</td>
<td>34.70</td>
<td>Fits Synergetics™ reusable handled cannula</td>
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<tr>
<td>Tip Protector, Handled Picks</td>
<td>34.71</td>
<td>Fits Synergetics™ handled picks</td>
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<td>Tip Protector for Picks, Rakes</td>
<td>34.72</td>
<td>Fits Synergetics™ handled picks</td>
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<td></td>
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<td>Large design to fit and protect MPC</td>
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<tr>
<td>Tip Protector, MPC</td>
<td>34.75</td>
<td>Replacement tip protector for your DORC instruments</td>
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<td>Tip Protector, DORC</td>
<td>34.76</td>
<td>Replacement tip protector for your Grieshaber instruments</td>
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<tr>
<td>Tip Protector, Grieshaber (Alcon)</td>
<td>34.77</td>
<td>Replacement tip protector for your Grieshaber instruments</td>
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<td>Tip Protector, Apex™</td>
<td>34.78</td>
<td>Doubles as cleaning luer and tip protector for the APEX™ handle</td>
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LUERS AND PLUGS

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<tr>
<td>Cleaning Luer</td>
<td>34.80</td>
<td>For Synergetics™ premium instruments</td>
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<tr>
<td>Disposable Scleral Plug</td>
<td>12.40</td>
<td>Available in 20ga or 19ga</td>
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<tr>
<td>Replacement Scleral Plug</td>
<td>12.43</td>
<td>Available in 23ga</td>
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SYNERGETICS® REPAIR SERVICE

For ophthalmic instrument repairs, call our Synergetics® specialist to obtain an RMA number. Our outstanding service department offers repair service to a wide array of surgical instrumentation.

For more information or repair service, please call 636-794-5052
For after-hours emergency service, please call 800-727-6771