Five Hoses. Two Fittings. One Solution.

GLOBALCORE™
The world’s first high-performance, cohesive hose and fitting system.

Parker
ENGINEERING YOUR SUCCESS.
Five Hoses. Two Fittings. One Solution...

Providing a simple solution of robust hydraulic hoses designed to endure the tough conditions where work gets done, GlobalCore is the future that OEMs and end users around the world have been asking for.

You know Parker as the global leader in providing unprecedented performance and value for hydraulic systems with high-pressure applications. With our GlobalCore solution, you can significantly reduce your inventory and part number complexity by using just five hoses and two fittings.

Designed to meet the most common working pressures in industry, GlobalCore stands above the competition and serves customers around the world with a simple family of constant working pressure hoses.

GlobalCore hoses are manufactured in the major regions of the world – North America, Europe and Asia – supporting the equipment they serve, regardless of where it was originally manufactured, or where it is today.

<table>
<thead>
<tr>
<th>The GlobalCore family is available in</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 MPa</td>
</tr>
<tr>
<td>3,000 psi</td>
</tr>
</tbody>
</table>

Designed, built and tested to the ISO 18752 specification, GlobalCore reduces engineering and service complexity by providing the first comprehensive product family across the most commonly used constant working pressure classes.

Parker’s worldwide reach makes GlobalCore easier to specify and source through our unrivaled industrial distribution network of 13,000 locations globally.
Leading the World.

Global

A single cohesive family of complimentary products so qualified has never before been offered globally.

With manufacturing locations in the major global regions, regardless of where your equipment was originally manufactured or is today, GlobalCore will support your hydraulic hose needs.

Agency Approvals

GlobalCore will carry the most common international agency approvals as requested by our customers. ABS, DNV, Lloyd’s, MSHA and USCG will be comprehensive approvals, while other certifications will be specific to designated hoses or sizes.

Visit parkerglobalcore.com for the latest list of hose and agency approvals.
High Performance

Because challenges can emerge anytime and anywhere, your solution should endure the tough conditions of your work environment. The high-performance standards designed, engineered and manufactured into GlobalCore provide the longest service life possible.

With GlobalCore hoses tested to twice the ISO 18752 standard, high performance in rugged environments and high-impulse applications is ensured.

Long known as the premier manufacturer of hydraulic hoses, you can expect Parker’s GlobalCore system will continue to meet our own rigorous standards of excellence.

Additional value is realized through:

- 212° / 257° F temperature ratings
- Standard, ToughCover and SuperTough cover technologies for abrasion resistance
- ½ minimum bend radius
- Low force to flex for ease of installation
- Advanced inner tube chemistry

Cohesive

GlobalCore is a unified system that delivers hoses designed, built and tested to the ISO 18752 specification.

Released in 2006, and quickly adopted by customers worldwide, Parker is at the forefront of delivering this universal standard for hydraulic hoses.

The ISO 18752 specification was developed based on how hoses are specified and used by customers - by pressure range, and not by hose construction. It’s a truer specification based on today’s needs. Although the specification covers hoses ranging from 500 psi through 8,000 psi and in sizes from -3 to -64, our focus is on the critical range where our customers operate.

GlobalCore expands our range of ISO 18752 hoses and provides options for the most critical sizes and pressure ranges - 3,000 psi to 6,000 psi in sizes -4 through -32.

### ISO 18752 Performance Definitions (4.2 Grades and Types)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Type</th>
<th>Temperature</th>
<th>Impulse Pressure (% of MWP)</th>
<th>Minimum Number of Cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>AS</td>
<td>100°C (212°F)</td>
<td>133%</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td>AC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>BS</td>
<td>100°C (212°F)</td>
<td>133%</td>
<td>500,000</td>
</tr>
<tr>
<td></td>
<td>BC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>CS</td>
<td>120°C (250°F)</td>
<td>133% and 120%</td>
<td>500,000</td>
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<tr>
<td></td>
<td>CC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>DC</td>
<td>120°C (250°F)</td>
<td>133%</td>
<td>1,000,000</td>
</tr>
</tbody>
</table>

* Standard or compact, e.g. CS is grade C and standard type.

Standard types have larger outside diameters and larger bend radii and compact types have smaller outside diameters and smaller bend radii.

* Maximum working pressure.

* 120% of the MWP shall be used for classes 350, 620 and 660 instead of 133%.

ISO 18752 classifies the resistance to impulse into four grades: A, B, C and D. Each grade is classified by outside diameter into standard types (AS, BS and CS) and compact types (AC, BC, CC and DC) as shown in this table.
Simple

The GlobalCore system is simple. With only five hoses, OEM and MRO customers alike will enjoy selecting the right hose based on working pressure.

Selecting the fitting is even simpler. Choose the renowned 43 Series, with more than 2,500 configurations, or the 77 Series, designed specifically for higher pressure applications and available in more than 500 configurations.

<table>
<thead>
<tr>
<th>Hoses</th>
<th>-4</th>
<th>-6</th>
<th>-8</th>
<th>-10</th>
<th>-12</th>
<th>-16</th>
<th>-20</th>
<th>-24</th>
<th>-32</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 MPa / 3,000 psi</td>
<td>387</td>
<td>387</td>
<td>387</td>
<td>387</td>
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<td>387</td>
<td>387</td>
<td>387</td>
<td>387</td>
</tr>
<tr>
<td>35 MPa / 5,000 psi</td>
<td>*</td>
<td>*</td>
<td>787</td>
<td>787</td>
<td>787</td>
<td>787</td>
<td>787</td>
<td>787</td>
<td>787</td>
</tr>
<tr>
<td>42 MPa / 6,000 psi</td>
<td>*</td>
<td>*</td>
<td>797</td>
<td>797</td>
<td>797</td>
<td>797</td>
<td>797</td>
<td>797</td>
<td>797</td>
</tr>
</tbody>
</table>

*Not part of GlobalCore family. See Parker 4400 Catalog for alternative product.

Cover Options

GlobalCore hoses come with a variety of cover options so you can match the right cover to your application.

- Our Standard cover is a durable synthetic rubber that provides protection from light abrasion, as well as other harmful environmental conditions (UV, ozone).

- Our ToughCover is 80 times more abrasion resistant than our Standard cover, providing increased abrasion resistance for applications in demanding conditions.

- Our SuperTough cover is 450 times more abrasion resistant than our Standard cover and offers unparalleled protection from abrasive environments.

Metal-to-Hose Abrasion Resistance Comparison

Results from the ISO 6945 metal-to-hose abrasion test show that ToughCover and SuperTough cover hoses offer significantly greater abrasion resistance than standard rubber cover hose.
Parker’s GlobalCore 797 hose provides 6,000 psi (42 MPa) constant working pressure in all sizes. Compared with conventional spiral hose, 797 hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. The 797 hose exceeds the ISO 18752 performance specification.

- ½ the bend radius of SAE spiral
- 6,000 psi constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (BC/CC/DC)
- Nearly 30% smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested to 2,000,000 cycles
- Flex impulse tested, providing a hose superior in both performance and service life
- 30% less hose weight than SAE spiral

### 797 Compact Spiral™ Hose

High pressure, low weight makes installation easy

**Application:** Petroleum-based hydraulic fluids, lubricating oils

**Inner Tube:** Proprietary synthetic rubber

**Reinforcement:** Four- or six-spiral steel wires

**Cover:** Standard Cover: Synthetic rubber
  - ToughCover: Synthetic rubber abrasion resistant

### 797 Part Number Standard Tough Super hose I.D. hose O.D. Working Pressure Minimum Bend Radius Weight

<table>
<thead>
<tr>
<th>#</th>
<th>Standard Cover</th>
<th>Tough Cover</th>
<th>Super Tough</th>
<th>ISO 18752 Performance</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Working Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>-8</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>BC</td>
<td>1/2</td>
<td>0.83</td>
<td>21.1</td>
<td>6000 psi</td>
<td>4</td>
</tr>
<tr>
<td>-10</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>BC</td>
<td>5/8</td>
<td>0.94</td>
<td>23.9</td>
<td>6000 psi</td>
<td>4 1/2</td>
</tr>
<tr>
<td>-12</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>BC</td>
<td>3/4</td>
<td>1.10</td>
<td>27.9</td>
<td>6000 psi</td>
<td>5 1/4</td>
</tr>
<tr>
<td>-16</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>BC</td>
<td>1</td>
<td>0.83</td>
<td>21.1</td>
<td>6000 psi</td>
<td>6 1/2</td>
</tr>
<tr>
<td>-20</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>BC</td>
<td>1 1/4</td>
<td>31.5</td>
<td>44.9</td>
<td>6000 psi</td>
<td>8 3/4</td>
</tr>
<tr>
<td>-24</td>
<td>BC</td>
<td>CC</td>
<td>CC</td>
<td>BC</td>
<td>1 1/2</td>
<td>20.9</td>
<td>32.8</td>
<td>6000 psi</td>
<td>12</td>
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<td>-32</td>
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<td>CC</td>
<td>BC</td>
<td>2</td>
<td>51</td>
<td>67.6</td>
<td>6000 psi</td>
<td>15</td>
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</tbody>
</table>

**Fittings:** 77 Series

**Temp. Range:**
- Standard Cover: -40°F to +212°F (-40°C to +100°C)
- ToughCover: -40°F to +257°F (-40°C to +125°C)

**Application:** Petroleum-based hydraulic fluids, lubricating oils

**Inner Tube:** Proprietary synthetic rubber

**Reinforcement:** Four- or six-spiral steel wires

**Cover:** Standard Cover: Synthetic rubber
  - ToughCover: Synthetic rubber abrasion resistant

**Temp. Range:**
- Standard Cover: -40°F to +212°F (-40°C to +100°C)
- ToughCover: -40°F to +257°F (-40°C to +125°C)
787 Compact Spiral™ Hose

Lighter weight, high flexibility makes installation easy

Parker’s GlobalCore 787 hose provides 5,000 psi (35 MPa) constant working pressure in all sizes. Compared with conventional spiral hose, 787 hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. The 787 hose exceeds the ISO 18752 performance specification.

- ½ ISO 18752 minimum bend radius
- 5,000 psi constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (BC/DC)
- Nearly 30% smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested to 2,000,000 cycles
- Flex impulse tested, providing a hose superior in both performance and service life
- 30% less hose weight than SAE spiral

787
Hydraulic - Constant Working Pressure
ISO 18752 - BC/DC

<table>
<thead>
<tr>
<th>#</th>
<th>Part Number</th>
<th>Standard Cover</th>
<th>Tough Cover</th>
<th>Super Tough</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Working Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
<th>Parkrimp</th>
</tr>
</thead>
<tbody>
<tr>
<td>787</td>
<td>787TC</td>
<td>787ST</td>
<td>787TC</td>
<td>787ST</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>psi</td>
<td>MPa</td>
</tr>
<tr>
<td>-8</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>1/2</td>
<td>12.5</td>
<td>0.63</td>
<td>21.1</td>
<td>5000</td>
<td>35</td>
<td>3-1/2</td>
</tr>
<tr>
<td>-10</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>5/8</td>
<td>16</td>
<td>0.94</td>
<td>23.9</td>
<td>5000</td>
<td>35</td>
<td>4</td>
</tr>
<tr>
<td>-12</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>3/4</td>
<td>19</td>
<td>1.10</td>
<td>27.9</td>
<td>5000</td>
<td>35</td>
<td>4-3/4</td>
</tr>
<tr>
<td>-16</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>1</td>
<td>25</td>
<td>1.40</td>
<td>35.7</td>
<td>5000</td>
<td>35</td>
<td>6</td>
</tr>
<tr>
<td>-20</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>1-1/4</td>
<td>31.5</td>
<td>1.77</td>
<td>44.9</td>
<td>5000</td>
<td>35</td>
<td>8-1/4</td>
</tr>
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<td>-24</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>1-1/2</td>
<td>38</td>
<td>2.06</td>
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<td>5000</td>
<td>35</td>
<td>10</td>
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<tr>
<td>-32</td>
<td>BC</td>
<td>DC</td>
<td>DC</td>
<td>2</td>
<td>51</td>
<td>2.66</td>
<td>67.6</td>
<td>5000</td>
<td>35</td>
<td>12-1/2</td>
</tr>
</tbody>
</table>

Application: Petroleum-based hydraulic fluids, lubricating oils
Inner Tube: Proprietary synthetic rubber
Reinforcement: Four- or six-spiral steel wires
Cover: Standard Cover: Synthetic rubber
ToughCover: Synthetic rubber abrasion resistant

Fittings: 77 Series
Temp. Range: Standard Cover: -40°F to +212°F (-40°C to +100°C)
ToughCover: -40°F to +257°F (-40°C to +125°C)
Parker’s GlobalCore 722 spiral hose provides 4,000 psi (28 MPa) constant working pressure in sizes -6 through -16. Designed for high-pressure, high-impulse applications, 722 hose is offered in Standard, ToughCover and SuperTough cover options. It is one-half the bend radius of 100R12 hose, making it easy to install and reducing the amount of hose needed. Exceeding the ISO 18752 performance specification, Parker’s 722 hose excels in multiple applications around the world.

- ½ ISO 18752 minimum bend radius
- 4,000 psi constant working pressure
- Exceeds ISO 18752 performance specification (BC and CC)
- 4-spiral construction for longer life in high-impulse, heavy-duty cycle applications
- TC cover provides 80 times the abrasion resistance compared to Standard rubber cover hoses
- ST cover provides 450 times the abrasion resistance compared to Standard rubber cover hoses

### 722 Hose
Resilient 4-wire spiral construction

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Standard Cover</th>
<th>Tough Cover</th>
<th>Super Tough</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Working Pressure</th>
<th>Minimum Bend Radius</th>
<th>Weight</th>
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<tbody>
<tr>
<td>722</td>
<td>ISO 18752 Performance</td>
<td>722TC</td>
<td>722ST</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>psi</td>
</tr>
<tr>
<td>-6</td>
<td>BC</td>
<td>CC</td>
<td>CC</td>
<td>3/8</td>
<td>10</td>
<td>0.78</td>
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<td>CC</td>
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<td>12.5</td>
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<td>CC</td>
<td>CC</td>
<td>5/8</td>
<td>16</td>
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<td>25</td>
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</tbody>
</table>

**Application:** Petroleum base hydraulic fluids and lubricating oils

**Inner Tube:** Synthetic rubber

**Reinforcement:** Four-spiral steel wire

**Cover:**
- Standard Cover: Synthetic rubber
- ToughCover: Synthetic rubber abrasion resistant
- SuperTough: Synthetic rubber super abrasion resistant

**Fittings:** 43 Series

**Temp. Range:** Standard Cover: -40°F to +212°F (-40°C to +100°C)

**ToughCover & SuperTough:** -40°F to +257°F (-40°C to +125°C)
487 Hose

Highly flexible across all sizes

Parker’s GlobalCore 487 hose provides 4,000 psi (28 MPa) constant working pressure in all sizes. Designed for high performance, 487 is available in a variety of cover options, including Standard, ToughCover and SuperTough. Its synthetic rubber inner tube provides a wider range of fluid compatibility. Rated to the ISO 18752 performance specification, 487 will excel in multiple applications around the world.

- ½ ISO 18752 minimum bend radius
- Low force to flex for ease of installation
- 4,000 psi constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (AC, BC & CC)
- TC cover provides 80 times the abrasion resistance compared to Standard rubber cover hose
- ST cover provides 450 times the abrasion resistance compared to Standard rubber cover hose

487 Hydraulic - Constant Working Pressure
ISO 18752 - AC/BC/CC

<table>
<thead>
<tr>
<th>#</th>
<th>Part Number</th>
<th>Standard Cover</th>
<th>Tough Cover</th>
<th>Super Tough</th>
<th>Hose I.D.</th>
<th>Hose O.D.</th>
<th>Working Pressure</th>
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<tr>
<td>487</td>
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<td></td>
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<td>6,3</td>
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<td>AC</td>
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<td>2.65</td>
<td>67,3</td>
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<td>3.40</td>
<td>77,0</td>
<td>4000</td>
<td>28</td>
</tr>
</tbody>
</table>

Application: Petroleum base hydraulic fluids and lubricating oils

Inner Tube: Synthetic rubber

Reinforcement: One- or two-sided steel wire for sizes -4 to -12
Four spiral wires for sizes -16 to -24
Six spiral wires for size -32

Cover: Standard Cover: Synthetic rubber
Tough Cover: Synthetic rubber abrasion resistant
Super Tough: Synthetic rubber super abrasion resistant

Fittings: 43 Series, sizes 4 to 16
77 Series, sizes 20 to 32

Temp. Range: Standard Cover:
-40°F to +212°F (-40°C to +100°C)
ToughCover & SuperTough:
-40°F to +267°F (-40°C to +125°C)
Parker’s GlobalCore 387 hose provides 3,000 psi (21 MPa) constant working pressure in all sizes. Available in a variety of cover options so you can match the right cover to your application, 387 hose offers you the choice of Standard, ToughCover and SuperTough. Designed, built and tested to the ISO 18752 performance specification, Parker’s 387 hose is unmatched in today’s marketplace.

- ½ ISO 18752 minimum bend radius
- Low force to flex for ease of installation
- 3,000 psi constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (AC, BC and CC)
- Synthetic rubber inner tube provides a wider range of fluid compatibility
- TC cover provides 80 times the abrasion resistance compared to Standard rubber cover hose
- ST cover provides 450 times the abrasion resistance compared to Standard rubber cover hose

### Application:
Petroleum base hydraulic fluids and lubricating oils

### Inner Tube:
Synthetic rubber

### Reinforcement:
One- or two-braid steel wire (four-spiral for sizes -20,-24 and -32)

### Cover:
- Standard Cover: Synthetic rubber
- Tough Cover: Synthetic rubber abrasion resistant
- Super Tough: Synthetic rubber super abrasion resistant

### Fittings:
- 43 Series, sizes -4 to -20
- 77 Series, sizes -20 to -32

### Temp. Range:
- Standard Cover: -40°F to +212°F (-40°C to +100°C)
- ToughCover & SuperTough: -40°F to +257°F (-40°C to +125°C)
Two Fittings are all you need.

43 Series Fittings

Parker’s renowned 43 Series fittings are a permanent, crimp style hydraulic fitting, enabling quick assembly with our family of Parkrimp crimpers. Assembling our No-Skive 43 Series fittings is simple and doesn’t require removing the outer cover of the hose, eliminating premature hose failure by skiving too long or short.

The 43 Series is offered in more than 2,500 configurations and is available around the world. For highly corrosive applications, 43 Series fittings are also available in stainless steel.

77 Series Fittings

The 77 Series fitting family, designed specifically for higher pressure applications, is available in more than 500 configurations. Its Interlock No-Skive design provides “bite the wire” sealing and holding power.

Compatible with our Parkrimp style crimpers and designed with reduced push-in force, assembly is easy. Its design features a shorter fitting height and smaller hose O.D. resulting in shorter straight lengths to bend, enabling use of more straight fittings as compared with shaped fittings, providing greater overall value, better flow, and reduced heat and pressure loss. As a one-piece fitting, the 77 Series features a metric hex and delivers cool-down leakage performance.

Need a Custom Fitting?

If you need a custom size or shape beyond what’s offered in the 43 or 77 Series fittings, Parker’s Customs Manufacturing Operation will design and manufacture exactly what you’re looking for at the speed you demand.

Need more Protection?

If you’re operating in corrosive environments, our XTR coating provides more than seven times SAE standard protection.

An outstanding advantage for equipment in highly caustic applications, Parker’s proprietary formulation has been tested to resist corroding for more than 720 hours.
Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings:
Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

Hose, Tubing and Bundles:
Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability:
Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

For information, call toll free...

1-800-C-PARKER (1-800-272-7537)