

# Blak-JAK® Quick Reference Guide

## Liner Retention System, Hydra-LIGN™ Rod, and Washpipe Cartridge System

To ensure optimum performance of your Blak-JAK® product, follow the simple maintenance and operation instructions below. For more information, refer to your Installation and Operation Manual.



### Blak-JAK Liner Retention System

For use with	Instructions
<i>Continental Emsco® FB-1600 OEM</i> <i>Continental Emsco FC-2200</i> <i>Ideco® T1300 – Mission L Module</i> <i>Ideco T 1600 – Mission L Module</i> <i>National® 12P-160</i> <i>National 14P-220</i>	<ul style="list-style-type: none"> <li>Do not pressure Hydra-CEL™ with locking pin in the pulled out position.</li> <li>Do not pressure Hydra-CEL above 3,000 PSI, or without having relief valve installed. Doing so will result in component failure, which could result in personal injury.</li> <li>Do not use Hydra-CEL or Lok-CEL™ if components are damaged.</li> <li>Re-torque hex nuts or socket head cap screws in all places in each liner bushing every three months.</li> </ul>
<i>Continental Emsco FB-1600 – Mission L Module</i> <i>Continental Emsco FC-1600</i> <i>National Oilwell A1700-PT</i>	<ul style="list-style-type: none"> <li>Do not pressure Hydra-CEL with locking pin in the pulled out position</li> <li>Do not pressure Hydra-CEL above 3,000 PSI, or without having relief valve installed. Doing so will result in component failure, which could result in personal injury.</li> <li>Do not use Hydra-CEL or Lok-CEL if components are damaged.</li> <li>Re-torque lug adapter every three months.</li> </ul>
<i>Gardner Denver® PZ-10/11</i>	<ul style="list-style-type: none"> <li>Do not pressure Hydra-CEL above 4,000 PSI, or without having relief valve installed. Doing so will result in component failure, which could result in personal injury.</li> <li>Do not use Hydra-CEL or Lok-CEL if components are damaged.</li> <li>Re-torque hex nuts or socket head cap screws in all places in each liner bushing every three months.</li> <li>The Blak-JAK system is designed to utilize 05-496-XXXHPL series liner #10 being 14½" in O/A length. Mixing of lengths is strongly discouraged. This system will adapt to various lengths of liners (14", 14¼", 14¾", and 15") requiring the use of optional spacer #12, #12a, and adapter spacer #13a and #13b. (Refer to diagram on page 18 of the Installation and Operation Manual.)</li> </ul>

**Blak-JAK® Quick Reference Guide**

[www.nov.com/mission](http://www.nov.com/mission)  
[mission@nov.com](mailto:mission@nov.com)

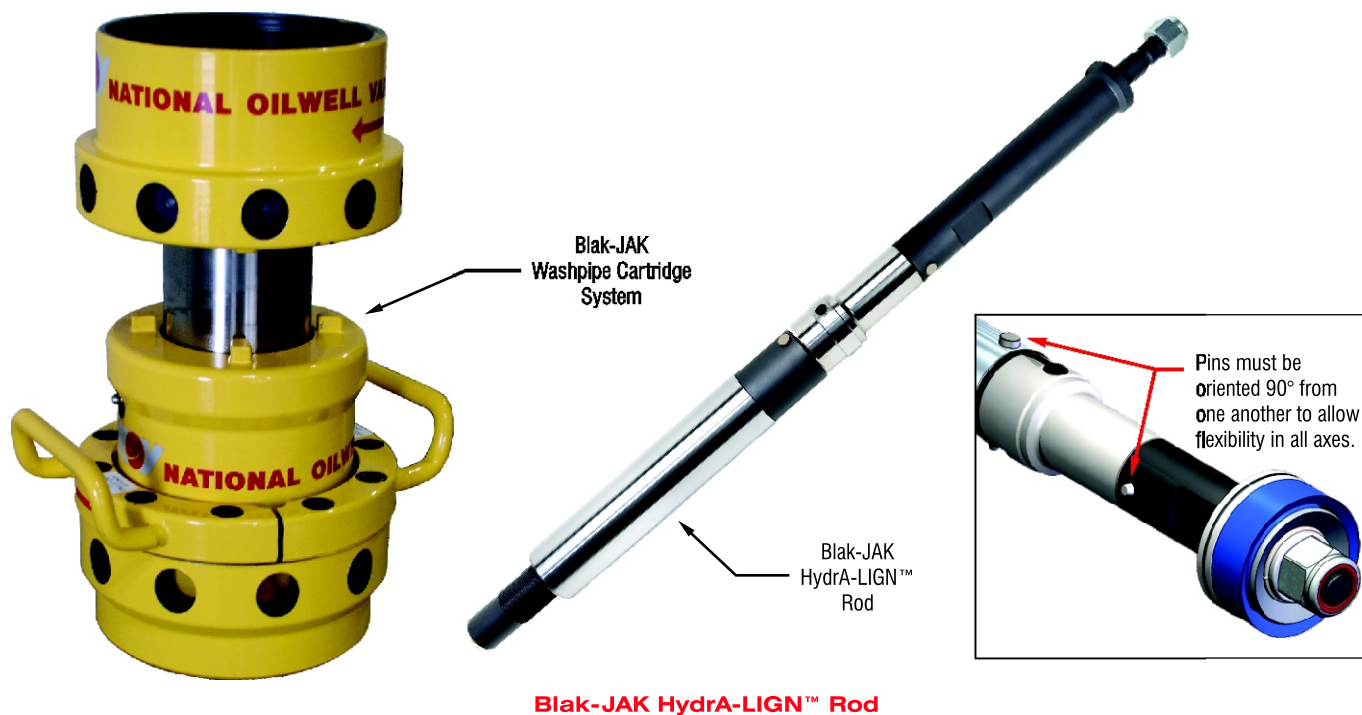
P.O. Box 4638  
 Houston, Texas 77210  
 United States  
 Phone: 281 517 3100  
 Toll Free: 800 800 4110  
 Fax: 281 517 0340



# Blak-JAK® Quick Reference Guide

## Blak-JAK Washpipe Cartridge System

For use with	Instructions
<p>National 5,000 PSI swivels: P-200, P-300, P-400, P-500, P-650</p> <p>National 5,000 PSI power swivels, 3" washpipe: PS-350, PS-500, PS-500A</p> <p>Varco® 5,000 PSI top drives, 3" washpipe: TDS-3S, TDS-4S, TDS-6S, TDS-10S, TDS-11S</p>	<ul style="list-style-type: none"> <li>Do not use a hammer or cheater on spanner bar when assembling or installing.</li> <li>When assembling, use lithium based or high-temperature moly grease on packing rings and washpipe, and use Never-Seez™ on threaded parts. Do not use pipe dope.</li> <li>When installing, use Never-Seez™ on threads, and do not use pipe dope.</li> </ul>
<p>Canrig™ 5,000 PSI swivels: 8035-E500 1050-E500 1165E-712 6027E-938 1250AC</p>	<ul style="list-style-type: none"> <li>Do not use a hammer or cheater on spanner bar when assembling or installing.</li> <li>When assembling, use lithium based or high-temperature moly grease on packing rings and washpipe, and use Never-Seez™ on threaded parts. Do not use pipe dope.</li> <li>When installing, use Never-Seez™ on threads, and do not use pipe dope.</li> <li>Always place Canrig part #DT12826 Washpipe Retainer Tool on top of quill before installing or before loosening top nut during removal.</li> </ul>



**Blak-JAK Hydra-LIGN™ Rod**

For use with	Instructions
<p>Continental Emsco FB-1600 Gardner Denver PZ-10/11 National 12P-160 National 14P-220 Oilwell® A1700PT-A850P</p>	<ul style="list-style-type: none"> <li>Do not use this product on liners smaller than 4½" diameter.</li> <li>Failure to re-insert port plug into hydraulic port of housing will result in hydraulic oil contamination and premature failure of components.</li> <li>Do not use nozzle without pressure relief valve installed.</li> <li>Do not exceed 3,000 PSI with hydraulic pump.</li> <li>The pins must be oriented 90° from one another. Failure to do so will result in premature failure of components. Use the installation/removal tool to ensure correct orientation.</li> </ul>

[www.nov.com/mission](http://www.nov.com/mission)  
[mission@nov.com](mailto:mission@nov.com)

P.O. Box 4638  
Houston, Texas 77210  
United States  
Phone: 281 517 3100  
Toll Free: 800 800 4110  
Fax: 281 517 0340

