The Low-Inertia™
Super 18

The ultimate for performance, versatility, and reliability with variable loads and speeds in applications up to 2250 lbs.ft.

• Unbeatable versatility with 19.7 to 1 overall reduction and 14.40 low gear.
• Economical performance with 0.73 and 0.86 overdrives for efficient cruise RPMs.
• Smoother, faster, easier shifting due to patented low-inertia technology.
• Exclusive output seal design improves seal life and eliminates potential for seal damage during yoke removal.
• Faster, smoother range and splitter shifts and improved cold weather performance due to design improvements.
• On selected models an optimized lubrication system provides increased cooling and lubrication for more difficult, harder working applications.
• Quieter operation and increased durability due to helical gears in auxiliary section.
• Improved lubrication with standard internal oil pump and oil lines for directed lubrication.
• Roadranger warranties are available for a wide variety of applications. To find the coverage that applies to your specific vocation, please see the Warranty Guide (TCVY0900), at www.eaton.com/roadranger.
Fuller® 18-Speed Transmissions

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CAPACITY</th>
<th>WEIGHT*</th>
<th>LENGTH**</th>
<th>SPEEDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTLO-16918B</td>
<td>1650 lbs.ft. [2237 Nm]</td>
<td>716 lbs. [324.77 kg]</td>
<td>33.1 in. [840.74 mm]</td>
<td>18 forward, 4 reverse</td>
</tr>
<tr>
<td>RTLO-18918B</td>
<td>1850 lbs.ft. [2508 Nm]</td>
<td>716 lbs. [324.77 kg]</td>
<td>33.1 in. [840.74 mm]</td>
<td>18 forward, 4 reverse</td>
</tr>
<tr>
<td>RTLO-20918B</td>
<td>2050 lbs.ft. [2779 Nm]</td>
<td>716 lbs. [324.77 kg]</td>
<td>33.1 in. [840.74 mm]</td>
<td>18 forward, 4 reverse</td>
</tr>
<tr>
<td>RTLO-22918B</td>
<td>2250 lbs.ft. [3050 Nm]</td>
<td>716 lbs. [324.77 kg]</td>
<td>33.1 in. [840.74 mm]</td>
<td>18 forward, 4 reverse</td>
</tr>
</tbody>
</table>

* Less clutch housing, lubricant and end yoke.  ** Lengths listed are from face of clutch housing to front bottoming surface of companion flange or yoke.

Specifications:

Clutch Housing Size:
- SAE #1 and #2.
- Cast iron and aluminum available.

PTO Openings:
- Two SAE standard openings.
- Right side, regular duty, 6-bolt, short length.
- Bottom, heavy duty, 8-bolt.

PTO Drive Gears:
- Right side, a 45-tooth, 6/8 pitch gear.
- Left side, a 47-tooth, 6/8 pitch gear. Both gears turn at .79 engine speed.

Oil Capacity:
- Approx. 28 pints [13.3 liters].
- Integral oil pump standard.
- Oil to water heat exchanger standard on 18918B, 20918B and 22918B (Requires 2 pints [.95 liters] additional lubricant. Adds 10 lbs. [4.53 kg] to weight).

Low Inertia Concept:

This innovative, patented design is identified in the Fuller nomenclature by the letter "L" (as in RTLO-18918B).

These transmissions feature a simple mainshaft which is not splined to the auxiliary drive gear. This unique design eliminates the added mass, drag and inertia of the entire auxiliary section.

During upshifts, where both the lever and splitter button are moved together, the low-inertia mainshaft is quickly brought to synchronous resulting in fast, easy shifts.

PTO Openings:

- Two SAE standard openings.
- Right side, regular duty, 6-bolt, short length.
- Bottom, heavy duty, 8-bolt.

PTO Drive Gears:

- Right side, a 45-tooth, 6/8 pitch gear.
- Left side, a 47-tooth, 6/8 pitch gear. Both gears turn at .79 engine speed.

Performance Chart:

Based on 1800 RPM engine cruising at 1630 RPM / 65 MPH.

Ratios and Steps:

<table>
<thead>
<tr>
<th>GEAR</th>
<th>RATIO</th>
<th>% STEP</th>
</tr>
</thead>
<tbody>
<tr>
<td>8th H</td>
<td>0.73</td>
<td>17</td>
</tr>
<tr>
<td>8th L</td>
<td>0.86</td>
<td>17</td>
</tr>
<tr>
<td>7th H</td>
<td>1.00</td>
<td>17</td>
</tr>
<tr>
<td>7th L</td>
<td>1.17</td>
<td>18</td>
</tr>
<tr>
<td>6th H</td>
<td>1.38</td>
<td>17</td>
</tr>
<tr>
<td>6th L</td>
<td>1.62</td>
<td>21</td>
</tr>
<tr>
<td>5th H</td>
<td>1.95</td>
<td>17</td>
</tr>
<tr>
<td>5th L</td>
<td>2.29</td>
<td>17</td>
</tr>
</tbody>
</table>

Range Shift: 19

4th H  2.73  17
4th L  3.20  17
3rd H  3.74  17
3rd L  4.38  18
2nd H  5.16  17
2nd L  6.05  21
1st H  7.30  17
1st L  8.56  44
Low H  12.29  17
Low L  14.40  44
Hi Rev H  3.43
Hi Rev L  4.03
Low Rev H  12.85
Low Rev L  15.06
Overall  19.7 to 1

Shift Pattern:

Neutral

Note: Features and specifications listed in this document are subject to change without notice and represent the maximum capabilities of the software and products with all options installed. Although every attempt has been made to ensure the accuracy of information contained within, Eaton makes no representation about the completeness, correctness or accuracy and assumes no responsibility for any errors or omissions. Features and functionality may vary depending on selected options.

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