Axle models and other equipment covered in this publication are listed below.

### Eaton® Model No. Identification for 4x4 Rear Axle Systems

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<th>Eaton® Model No. Identification</th>
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*Available with Controlled Traction Differential
+Supersedes 185S4, 185T4, 185P4

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Note 2: 106710 Assy Contains Items 2-4, 7-8, 10-13, & 107276 RTV
Note 3: Complete No-Spin Unit Available, P/N 110831 - 36 Inv Spline
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Note 4: 98393 Being Replaced By 129315 Input Shaft w/(Metric Thread), 126155 Nut (Metric), 126242 Washer
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Pinion Bearing Spacers

Models:
190S4, 220S4 Single Reduction
190C4, 220C4 Single Reduction w/CTD
190T4, 220T4 Dual Range
190P4, 220P4 Planetary Double Reduction

.472"-110736 .481"-110745 .490"-110772 .499"-110794
.473"-110737 .482"-110746 .491"-110776 .500"-110795
.474"-110738 .483"-110748 .492"-110780 .501"-110796
.475"-110739 .484"-110750 .493"-110784 .502"-110798
.476"-110740 .485"-110752 .494"-110786 .503"-110799
.477"-110741 .486"-110756 .495"-110788 .504"-110800
.478"-110742 .487"-110760 .496"-110790 .505"-110801
.479"-110743 .488"-110764 .497"-110792 .506"-110802
.480"-110744 .489"-110768 .498"-110793 .507"-110803

Models:
230S4, 260S4, 300S4, 350S4 Single Reduction and Single Reduction w/CTD
230C4, 260C4, 300C4, 350C4 Single Reduction w/CTD
230T4, 260T4, 300T4, 350T4 Dual Range
230P4, 260P4, 300P4, 350P4 Planetary Double Reduction

.167"-.91679 .176"-.91688 .185"-.91702 .194"-.91719
.168"-.91680 .177"-.91689 .186"-.91704 .195"-.91720
.169"-.91681 .178"-.91690 .187"-.91706 .196"-.91721
.170"-.91682 .179"-.91691 .188"-.91708 .197"-.91722
.171"-.91683 .180"-.91692 .189"-.91710 .198"-.91723
.172"-.91684 .181"-.91694 .190"-.91712 .199"-.91724
.173"-.91685 .182"-.91696 .191"-.91714 .200"-.91725
.174"-.91686 .183"-.91698 .192"-.91716 .201"-.91726
.175"-.91687 .184"-.91700 .193"-.91718 .202"-.91727

Speedometer Adapters

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4x4 Rear Axle Differential Carrier
Single Reduction w/Controlled Traction Differential
Models 190C4, 220C4, 230C4, 260C4, 300C4, 350C4

NOTE: 230C4, 260C4, 300C4, 350C4 shown

THESE PARTS ARE MOUNTED IN POWER DIVIDER COVER
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**P.E.** - Permanent Engagement
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* Identify part numbers on old parts. If part number of helical gear or front output shaft is 111297, 111298 respectively, replace both with new part numbers shown.

**Note 1:** 98393 is being replaced by 129315 Input Shaft w/(Metric Thread), 126155 Nut (Metric), 126242 Washer.
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4x4 Rear Axle Differential Carrier
Models 190T4, 220T4, 230T4
260T4, 300T4, 350T4
Dual Range
Models 190P4, 220P4, 230P4,
260P4, 300P4, 350P4
Planetary Double Reduction

DUAL RANGE
PLANETARY DOUBLE REDUCTION AXLES
DIFFERENTIAL & RING GEAR
SLIDING CLUTCH (DUAL RANGE ONLY)
DIFFERENTIAL ASSEMBLY
THESE PARTS ARE MOUNTED IN POWER DIVIDER COVER

[Diagram with labeled parts numbers]
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*Identify part numbers on old parts. If part number of helical gear or front output shaft is 111297, 111298 respectively, replace both with new part numbers shown.
# Ring Gear & Drive Pinion Set

## *Axle Models 190S4, 220S4 (Single Reduction)*

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## *Axle Models 190C4, 220C4 (Single Reduction w/Controlled Traction Differential)*

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## *Axle Models 230T4, 260T4, 300T4, 350T4 (Dual Range)*

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*Ring Gear & Pinion Kits Have Been Obsoleted With No Replacements.

Reference Bulletin AXIB-9507. Contact Your OEM For Model Replacement.

**Note 1:** Part Available As Of 8-1-96.
4x4 All Wheel Drive Shift Systems
Single Speed Axles with Standard or Controlled Traction Differential
Double Reduction Axles with Standard Differential

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ADD SHIFT UNITS TO SYSTEM FOR CONTROLLED TRACTION DIFFERENTIALS

CONTROLLED TRACTION DIFFERENTIAL SHIFT UNITS

EATON
All-Wheel Drive
Operating Instructions

• Engage at any speed but never when wheels are spinning.
• Do not operate engaged on dry pavement. Use only when additional traction is needed under adverse road conditions.

\[\text{air pressure in 4x4 drive (valve engaged and open)}\]
# 4x4 All Wheel Drive Shift Systems

Single Speed Steer/Drive Axle with Dual Range Rear Axle

(Straitgh Air with Axle Range Interlock)

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*Includes 113578 Check Valve
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*NLA as of 7/24/95.*

---

*Image of a diagram showing the components of the Lockup Shift Unit.*

---

*Note: The table lists the quantities and part numbers for each component, with columns for different axle types.*

---

*Image of an exploded view of the Lockup Shift Unit.*
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part Name</th>
<th>Qty. per Axle</th>
<th>Eaton Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Axle Shaft (39 spline, 1-13/16&quot; shaft dia.)</td>
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# Axle Housing and Axle Shafts

## Models 220C4, 220S4, 220T4, 220P4

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Axle Housing and Axle Shafts
Models 230C4, 230S4, 230T4, 230P4
Models 260C4, 260S4, 260T4, 260P4

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Axle Housing and Axle Shafts
Models 300C4, 300S4, 300T4, 300P4
Models 350C4, 350S4, 350T4, 350P4

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The 35327 axle uses unequal length axle shafts. Differential offset in the housing requires that the long axle shaft be used in the short-arm side of the housing. The short axle shaft is used in the long-arm side of the housing.

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<th>Flange-to-Flange Measurement</th>
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<tr>
<td>85&quot;</td>
<td>65.125&quot;</td>
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Track width can be determined by measuring the distance between the brake flanges.
The Roadranger System is an unbeatable combination of the best products from Eaton and Dana: partnering to provide you the most advanced, most trouble-free drivetrain in the industry. And it's backed by the Roadrangers: the most experienced, most expert, most accessible drivetrain consultants in the business.

For spec'ing or service assistance, call 1-800-826-HELP (4357) 24 hours a day, 7 days a week, (Mexico: 001-800-826-HELP (4357)) for more time on the road. Or visit our web site at www.roadranger.com.