

HENDRICKSON USE ONLY

# H ORDERING GUIDE

## INTRAAX® SUSPENSION

LIT NO: L602

DATE: March 2010

REVISION: M

### FORM INSTRUCTIONS:

For complete price and model number information on an INTRAAX® suspension system, fax this form to 800.696.4416 in the U.S. or 905.789.1033 in Canada. For additional assistance, please call toll-free 866.RIDEAIR (743.3247) in the U.S. or 800.668.5360 in Canada.

|              |               |                      |
|--------------|---------------|----------------------|
| <b>TO:</b>   | <b>FROM:</b>  | <b>COMPANY NAME:</b> |
| <b>DATE:</b> | <b>PHONE:</b> | <b>FAX:</b>          |

|                 |                |
|-----------------|----------------|
| <b>SAME AS:</b> | <b>EXCEPT:</b> |
|-----------------|----------------|

### SUSPENSION

|   |  |   |  |   |   |                                    |                             |                             |
|---|--|---|--|---|---|------------------------------------|-----------------------------|-----------------------------|
| <b>SUSPENSION MODEL:</b>  | <input type="checkbox"/> AANT 23K                        | <input type="checkbox"/> AAT 23K                                    | <input type="checkbox"/> AAT 25K                         | <input type="checkbox"/> AAT 30K <sup>1</sup> | <input type="checkbox"/> AAEDT 30K            |                                    |                             |                             |
|   | <input type="checkbox"/> AANLS 20K                       | <input type="checkbox"/> AANL 23K                                   | <input type="checkbox"/> AAL 23K                         | <input type="checkbox"/> AAL 25K              | <input type="checkbox"/> AAL 30K <sup>1</sup> | <input type="checkbox"/> AAEDL 30K |                             |                             |
| <b>RIDE HEIGHT:</b><br>(Inches)   | <input type="checkbox"/> 6.25                            | <input type="checkbox"/> 6.5  | <input type="checkbox"/> 7                               | <input type="checkbox"/> 7.5                  | <input type="checkbox"/> 8                    | <input type="checkbox"/> 9         | <input type="checkbox"/> 12 | <input type="checkbox"/> 13 |
|   | <input type="checkbox"/> 13.5                            | <input type="checkbox"/> 14   | <input type="checkbox"/> 15                              | <input type="checkbox"/> 16                   | <input type="checkbox"/> 17                   | <input type="checkbox"/> 18        | <input type="checkbox"/> 19 |                             |
| <b>FRAME BRACKET:</b>   | <input type="checkbox"/> Bolt-On                         | <input type="checkbox"/> Weldable Bolt-On                           | <input type="checkbox"/> Side-Mount Bolt-On              |   | <input type="checkbox"/> Weld-On              | <input type="checkbox"/> Other:    |                             |                             |
|   | <b>MOUNTING BOLT SIZE:</b>                               |   | <input type="checkbox"/> 0.500"                          | <input type="checkbox"/> 0.625"               | <b>BOLT PATTERN NUMBER:</b>                   |                                    |                             |                             |
| <b>FRAME BRACKET STYLE:</b>   | <input type="checkbox"/> Wingless Hanger                 |   | <input type="checkbox"/> Hanger with Wing                |   |   |                                    |                             |                             |
| <b>FRAME BRACKET PROFILE:</b><br>(AANT 23K / AANL 23K Models Only) <sup>2</sup> | <input type="checkbox"/> N/A                             | <input type="checkbox"/> Standard                                   | <input type="checkbox"/> Tapered                         |   |   |                                    |                             |                             |
| <b>CHANNEL:</b>   | <input type="checkbox"/> Standard C-Channel              | <input type="checkbox"/> Bolt-on C-Channel with struts <sup>3</sup> | <input type="checkbox"/> Customer Supplied               | <input type="checkbox"/> Included             | <input type="checkbox"/> Other:               |                                    |                             |                             |
| <b>FRONT SHOCK ABSORBER:</b>  | <input type="checkbox"/> Standard                        | <input type="checkbox"/> Extended Service / High Damping            |  |   | <input type="checkbox"/> No <sup>4</sup>      |                                    |                             |                             |
| <b>FRONT SHOCK STRAPS:</b>  | <input type="checkbox"/> Yes                             |   | <input type="checkbox"/> No                              |   |   |                                    |                             |                             |
| <b>REAR SHOCK ABSORBER<sup>5</sup>:</b>   | <input type="checkbox"/> Extended Service / High Damping |   |  | <input type="checkbox"/> No                   |   |                                    |                             |                             |
| <b>REBOUND LIMITER:</b>   | <input type="checkbox"/> Yes                             |   | <input type="checkbox"/> No                              |   |   |                                    |                             |                             |
| <b>TRAVEL:</b>  | <input type="checkbox"/> Standard                        | <input type="checkbox"/> Ltd Jounce / Up-Travel (AAL)               | <input type="checkbox"/> Ltd Rebound / Down-Travel (AAT) |   |   |                                    |                             |                             |

1. Suspension models are limited to a 25,000-pound axle rating.

2. Frame bracket profile is required for all AANT models and 12- through 17-inch ride height AANL models.

3. Only available with bolt-on frame brackets.

4. Selection only permitted when rear shock absorbers are specified.

5. Rear shock absorbers are available on AAL, AAEDT and AAEDL suspensions only.



SUSPENSION (CONTINUED)

|  |   |   |
|--|---|---|
| <b>AIR SPRING PSI RANGE:</b>                 | <input type="checkbox"/> Standard                           | <input type="checkbox"/> Low Pressure (Limited Availability by Model) |
| <b>HIGH CONTROL SUSPENSION <sup>6</sup>:</b> | <input type="checkbox"/> Yes                                | <input type="checkbox"/> No   |
| <b>BUSHING TUBE SPACER <sup>7,8</sup>:</b>   | <input type="checkbox"/> Standard                           | <input type="checkbox"/> Optional Cap Style                           |
| <b>FRAME BRACKET TO BEAM:</b>                | <input type="checkbox"/> Assembled                          | <input type="checkbox"/> Non-Assembled                                |
| <b>SUSPENSION PAINT OPTIONS:</b>             |   |   |
| Surface Coating — Axle/Beam Weldment:        | <input type="checkbox"/> None                               | <input type="checkbox"/> Standard Black Primer                        |
| Surface Coverage — Frame Brackets:           | <input type="checkbox"/> Standard (same as surface coating) | <input type="checkbox"/> None /Do Not Paint Frame Brackets            |
|  | <input type="checkbox"/> Finished Soft Coat- Black          | <input type="checkbox"/> Finished Soft Coat- Gray                     |
|  |   | <input type="checkbox"/> Galvanized <sup>9</sup>                      |

AXLE \* (\*Refer to L846 — *Wide Base Tire Configuration Bulletin* for Track / Wheel Recommendations)

|   |                                   |   |   |                               |                               |                               |                             |
|---|-----------------------------------|---|---|-------------------------------|-------------------------------|-------------------------------|-----------------------------|
| <b>STYLE:</b>                               | <input type="checkbox"/> Straight | <input type="checkbox"/> Cambered (AAT 23K Only)                              | <input type="checkbox"/> Raised Center (AAT 23K & 25K Only) |                               |                               |                               |                             |
| <b>TRACK (Inches):</b>                      | <input type="checkbox"/> 71.5     | <input type="checkbox"/> 73   | <input type="checkbox"/> 75.5                               | <input type="checkbox"/> 76.5 | <input type="checkbox"/> 77.5 | <input type="checkbox"/> 83.5 | <input type="checkbox"/> 85 |
| <b>SPINDLE:</b>                             | <input type="checkbox"/> HN       | <input type="checkbox"/> HP   |   |                               |                               |                               |                             |
| <b>AXLE WALL:</b>                           | <input type="checkbox"/> Standard | <input type="checkbox"/> Heavy Duty (Limited Availability by Model)           |   |                               |                               |                               |                             |
| <b>TIRE INFLATION SYSTEM <sup>10</sup>:</b> | <input type="checkbox"/> No       | <input type="checkbox"/> TIREMAAX <sup>®</sup> (Complete Worksheet on Page 4) | <input type="checkbox"/> 3-Hole Prep                        |                               |                               |                               |                             |

BRAKES

|                           |  |   |   |   |
|---------------------------|--|---|---|---|
| <b>BRAKE TYPE:</b>        | <input type="checkbox"/> Drum          | <input type="checkbox"/> Air Disc (Complete L895 – <i>Air Disc Brake Ordering Guide</i> ) |   |   |
| <b>BRAKE SIZE:</b>        | <input type="checkbox"/> 16.5" x 7"    | <input type="checkbox"/> 16.5" x 7" HXS <sup>®</sup>                                      | <input type="checkbox"/> 16.5" x 8-5/8" HXS                 | <input type="checkbox"/> 15" x 8-5/8" HXS (Not available with AANL) |
| <b>BRAKE SHOE/LINING:</b> | <input type="checkbox"/> Abex 3030-197 | <input type="checkbox"/> Abex 931-162   | <input type="checkbox"/> Hendrickson ULTRAA 20 <sup>™</sup> | <input type="checkbox"/> Abex NAB 456                               |
| <b>S-CAM:</b>             | <input type="checkbox"/> 28 Spline     | <input type="checkbox"/> 10 Spline  |   |   |
| <b>DUST SHIELD:</b>       | <input type="checkbox"/> No            | <input type="checkbox"/> Yes  |   |   |
| <b>ABS SENSOR:</b>        | <input type="checkbox"/> No            | <input type="checkbox"/> Haldex 19.7"   | <input type="checkbox"/> Wabco 15.7"                        |   |



ARE YOU ORDERING WHEEL-END OPTIONS?  No (Complete Remainder of Page 2 and Go to Page 4)  Yes (Go to Page 3)

|                                |                             |  |   |                                 |
|--------------------------------|-----------------------------|--|---|---------------------------------|
| <b>BRAKE CHAMBER:</b>          | <input type="checkbox"/> No | <input type="checkbox"/> Standard 30/30, 2.5" Stroke | <input type="checkbox"/> Other:                         |                                 |
| <b>BRAKE CHAMBER WARRANTY:</b> | <input type="checkbox"/> No | <input type="checkbox"/> Standard (4-Year Limited)   | <input type="checkbox"/> Extended Life (6-Year Limited) |                                 |
| <b>BRAKE ADJUSTER:</b>         | <input type="checkbox"/> No | <input type="checkbox"/> Standard 5.5"               | <input type="checkbox"/> Standard 6.0"                  | <input type="checkbox"/> Other: |
| <b>SPINDLE NUT:</b>            | <input type="checkbox"/> No | <input type="checkbox"/> Standard 3-Piece Nut        |   |                                 |

6. High control suspensions are recommended for single-axle trailers in multi-trailer combinations, all dollies and full trailers with two single axles. Not for use on multiple-axle trailers.
7. The cap style bushing tube spacer is a standard component on the following models: AAEDT / AAEDL 30K, AAT / AAL 30K. It is an available option on: AAT / AAL 23K, AAT / AAL 25K. It is not available on AANLS 20K, AANL 23K or AANT 23K suspensions.
8. All logging trailers and petroleum tankers require the cap style bushing tube spacer.
9. Galvanized coating option is only available with bolt-on frame brackets and is not compatible with weld-on channels or other weld-on components assembled by the OEM.
10. Hendrickson does not provide warranty coverage for the installation, performance or components of a competitor brand tire inflation system installed on a Hendrickson suspension. Any consequential damages to the Hendrickson suspension resulting from a failure to the competitor brand tire inflation system or components, whether installed by the OEM, repair facility or end-user customer, should be directed to the respective tire inflation system manufacturer for warranty coverage.

|   | <input type="checkbox"/> <b>Standard Service</b><br>(1-Year Limited Warranty <sup>9</sup> )  | <input type="checkbox"/> <b>Hendrickson Value System™ – HVS™</b><br>(3-Year Limited Warranty <sup>9</sup> )               | <input type="checkbox"/> <b>Hendrickson Long-Life System™ – HLS™</b><br>(5-Year Limited Warranty <sup>9</sup> )           | <input type="checkbox"/> <b>Hendrickson Extended Life System™ – HXL7™</b><br>(7-Year Limited Warranty <sup>9</sup> )      |
|---|--|---|---|---|
| <b>SPINDLE:</b>   | <input type="checkbox"/> HN<br><input type="checkbox"/> HP   | <input type="checkbox"/> HN<br><input type="checkbox"/> HP  | <input type="checkbox"/> HN<br><input type="checkbox"/> HP  | HP  |
| <b>HUB MATERIAL:</b>  | <input type="checkbox"/> Ductile Iron<br><input type="checkbox"/> ADI<br><input type="checkbox"/> Aluminum   | <input type="checkbox"/> Ductile Iron<br><input type="checkbox"/> ADI<br><input type="checkbox"/> Aluminum                | <input type="checkbox"/> Ductile Iron<br><input type="checkbox"/> ADI<br><input type="checkbox"/> Aluminum                | Ductile Iron  |
| <b>HUB STYLE:</b>   | Hub Piloted  | Hub Piloted   | Hub Piloted   | Hub Piloted   |
| <b>NUMBER OF STUDS:</b>   | 10   | 10  | 10  | 10  |
| <b>BOLT CIRCLE DIAMETER:</b>  | 11.25"   | 11.25"  | 11.25"  | 11.25"  |
| <b>WHEEL MATERIAL<sup>13</sup>:</b>   | <input type="checkbox"/> Aluminum<br><input type="checkbox"/> Steel<br><input type="checkbox"/> Steel / Aluminum   | <input type="checkbox"/> Aluminum<br><input type="checkbox"/> Steel<br><input type="checkbox"/> Steel / Aluminum          | <input type="checkbox"/> Aluminum<br><input type="checkbox"/> Steel<br><input type="checkbox"/> Steel / Aluminum          | <input type="checkbox"/> Aluminum<br><input type="checkbox"/> Steel<br><input type="checkbox"/> Steel / Aluminum          |
| <b>DUAL / SUPER SINGLE<sup>13</sup>:</b><br>(SS) Short Stud<br>(LS) Long Stud | <input type="checkbox"/> Dual<br><input type="checkbox"/> Super Single (SS)<br><input type="checkbox"/> Super Single (LS)  | <input type="checkbox"/> Dual<br><input type="checkbox"/> Super Single (SS)<br><input type="checkbox"/> Super Single (LS) | <input type="checkbox"/> Dual<br><input type="checkbox"/> Super Single (SS)<br><input type="checkbox"/> Super Single (LS) | <input type="checkbox"/> Dual<br><input type="checkbox"/> Super Single (SS)<br><input type="checkbox"/> Super Single (LS) |
| <b>DRUM MATERIAL<sup>13</sup>:</b>  | <input type="checkbox"/> Cast<br><input type="checkbox"/> Fused  | <input type="checkbox"/> Cast<br><input type="checkbox"/> Fused   | <input type="checkbox"/> Cast<br><input type="checkbox"/> Fused   | <input type="checkbox"/> Cast<br><input type="checkbox"/> Fused   |
| <b>LUBE TYPE:</b>   | <input type="checkbox"/> SAE 80/90<br><input type="checkbox"/> Semi-Fluid Grease   | <input type="checkbox"/> SAE 80/90<br><input type="checkbox"/> Synthetic 75W/90   | Semi-Fluid Grease   | Semi-Fluid Grease   |
| <b>SEAL:</b>  | <input type="checkbox"/> Stemco Voyager (Standard)<br><input type="checkbox"/> Stemco Discover<br><input type="checkbox"/> Stemco Guardian<br><input type="checkbox"/> Federal Mogul | Standard  | Standard  | Standard  |
| <b>BEARING:</b>   | Standard   | Standard  | Standard  | Standard  |
| <b>SPINDLE NUT:</b>   | Standard 3-Piece Nut   | Standard 3-Piece Nut  | Standard 3-Piece Nut  | Precision 320   |
| <b>HUBCAP TYPE:</b>   | Standard Bolt-on   | Standard Bolt-on  | Standard Bolt-on  | Corrosion Resistent Bolt-on   |
| <b>ABS TONE RING:</b>   | Yes  | Yes   | Yes   | Yes   |

DRUM OPTIONS

|                         |  |                                     |
|-------------------------|--|-------------------------------------|
| <b>DRUM DUTY:</b>       | <input type="checkbox"/> Standard          | <input type="checkbox"/> Heavy Duty |
| <b>DRUM BALANCING:</b>  | Balanced                                   |                                     |
| <b>WHEEL FASTENERS:</b> | <input type="checkbox"/> Yes <sup>14</sup> | <input type="checkbox"/> No         |

11. Consult a customer service representative to ensure the compatibility of the wheel-end equipment with the other selected suspension parameters.

12. Refer to Hendrickson publication L583, *Comprehensive Warranty Statement* for complete details.

13. Information purpose only, not for ordering. Contact Hendrickson for the axle rating when offset wheels are used.

14. Two (2) wheel fasteners factory installed per wheel-end with balance packaged in plastic bag, taped and stretch-wrapped to each wheel-end.

ACCESSORY ITEMS (Not Included in INTRAAX® Model Number — Sold Separately)

|                                      |                              |                             |                        |                              |                             |
|--------------------------------------|------------------------------|-----------------------------|------------------------|------------------------------|-----------------------------|
| <b>HEIGHT CONTROL VALVE:</b>         | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <b>Integral Dump:</b>  | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <b>MANUAL DUMP VALVE:</b>            | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <b>With Enclosure:</b> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| <b>UNIVERSAL LOAD SCALE KIT:</b>     | <input type="checkbox"/> Yes | <input type="checkbox"/> No |                        |                              |                             |
| <b>UNDER BEAM LIFT<sup>15</sup>:</b> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |                        |                              |                             |

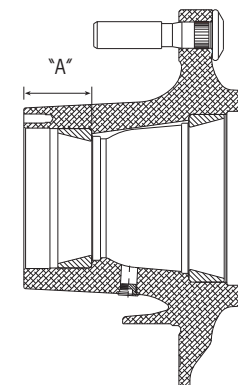
TIREMAAX® KIT WORKSHEET<sup>16</sup> (Not Included in INTRAAX Model Number — Sold Separately)

|   |  |                              |   |                              |                                 |                             |
|---|--|------------------------------|---|------------------------------|---------------------------------|-----------------------------|
| <b>CONTROLLER TYPE:</b>                                   | <input type="checkbox"/> CP (Constant Pressure)      |                              |   |                              |                                 |                             |
| <b>NUMBER OF AXLES:</b>                                   | <input type="checkbox"/> 1                           | <input type="checkbox"/> 2   | <input type="checkbox"/> 3  | <input type="checkbox"/> 4   | <input type="checkbox"/> Other: |                             |
| <b>HUBCAP TYPE:</b>                                       | <input type="checkbox"/> Bolt-On                     |                              | <input type="checkbox"/> Bolt-On Stemco <sup>17,18</sup>            |                              |                                 |                             |
| <b>LUBE TYPE:</b>   | <input type="checkbox"/> SAE 80/90                   |                              | <input type="checkbox"/> Semi-Fluid Grease                          |                              |                                 |                             |
| <b>WHEEL STYLE:</b>                                       | <input type="checkbox"/> Dual                        |                              | <input type="checkbox"/> Super Single                               |                              |                                 |                             |
| <b>TIRE SIZE:</b>   | <input type="checkbox"/> 17 - 19.5"                  |                              | <input type="checkbox"/> 22.5"                                      |                              | <input type="checkbox"/> 24.5"  |                             |
| <b>ECU COLD TIRE PRESSURE SETTING (psi)<sup>19</sup>:</b> | <input type="checkbox"/> 70                          | <input type="checkbox"/> 75  | <input type="checkbox"/> 80   | <input type="checkbox"/> 85  | <input type="checkbox"/> 90     | <input type="checkbox"/> 95 |
|   | <input type="checkbox"/> 105                         | <input type="checkbox"/> 110 | <input type="checkbox"/> 115  | <input type="checkbox"/> 120 |                                 |                             |
| <b>TRAILER-MOUNTED INDICATOR LAMP KIT:</b>                | <input type="checkbox"/> Standard                    |                              | <input type="checkbox"/> LED  |                              | <input type="checkbox"/> No     |                             |
| <b>WIRING HARNESS:</b>                                    | <input type="checkbox"/> Premium, 15-Foot, ABS-ready |                              | <input type="checkbox"/> Standard, 18-inch, ECU Wiring Adaptor Plug |                              |                                 |                             |
|   | <input type="checkbox"/> Premium, 3-Foot, ABS-ready  |                              | <input type="checkbox"/> None                                       |                              |                                 |                             |
| <b>AIR PLUMBING KIT:</b>                                  | <input type="checkbox"/> Manifold <sup>20</sup>      |                              | <input type="checkbox"/> None                                       |                              |                                 |                             |
| <b>CONTROLLER TANK VALVE: (Pressure Check)</b>            | <input type="checkbox"/> Yes                         |                              | <input type="checkbox"/> No   |                              |                                 |                             |

If the hub bore dimension is less than the dimension shown in the chart, a Stemco hubcap is required for proper rotary joint assembly clearance.

| SPINDLE NUT SYSTEM        | Dimension "A" |       |
|---------------------------|---------------|-------|
|                           | SPINDLE TYPE  |       |
|                           | HN            | HP    |
| Standard three-piece      | 1.52"         | 1.44" |
| Stemco PRO-TORQ one-piece | 1.69"         | 2.12" |

Dimension "A" is measured from the bottom of the bearing cup to the hubcap mounting surface.



- 15. When selecting a UBL, its operating limitations may vary depending upon the suspension model, ride height and application. In some cases, a lift is only recommended for lifting an unloaded trailer. Contact Hendrickson for assistance.
- 16. When installing TIREMAAX, please contact Hendrickson to verify correct wheel-end component integration.
- 17. Required with Stemco PRO-TORQ spindle nut.
- 18. Required with ADI hubs on HN spindle.
- 19. Refer to tire manufacturer's recommended tire pressure.
- 20. Not required for single-axle systems.

