



TECHNICAL BULLETIN

STANDARD REPAIR TIMES GUIDE AUSTRALIA & NEW ZEALAND

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STANDARD REPAIR TIMES

The Standard Repair Times outlined in this document are considered typical and include the components specified in the detailed breakdown. These times are inclusive but not limited to the items listed in the description.

In certain instances, it may be necessary to remove and install additional parts not included in the basic descriptions to complete the warranty repair. When this occurs, a comprehensive report substantiating the need for extra time must be attached to the warranty claim form.

If a warranty claim is submitted with a repair time exceeding the established standard repair times, then a detailed description explaining the reason for the extra time is required.

The following labour allowances have been based upon work conducted by various repair facilities using approved Hendrickson procedures and include technician set-up time, diagnostic time, and consideration of applicable supervisory and administration requirements.

NOTE: This repair times guide has been created specifically for the Asia Pacific region. It replaces all previous documents on this subject, including the former 97117-124 repair times guide.



HENDRICKSON

The World Rides On Us™

TRAILER SUSPENSION REPAIR TIMES

COMPONENT DESCRIPTION	HOURS	COMPONENT DESCRIPTION	HOURS
AIR CONTROLS		ALIGNMENT	
Air control kit, with enclosure (LACV)	1.0	Axle alignment	
Air gauge	0.5	Non-steer dual axles with QUIK-ALIGN®	1.0
Axle vent	0.7	Each additional axle	0.5
Brake protection valve	1.0	Includes:	
Hand control valve	1.0	• Removal and replacement of:	
Height control valve	1.0	– QUIK-ALIGN pivot connection hardware	
Includes:		Non-steer dual axles with welded collars	1.5
• Ride height adjustment		Each additional axle	0.8
Height control valve linkage	0.5	Includes:	
Lift axle control valve/kit	1.0	• Removal and replacement of:	
Manual exhaust valve	1.0	– Pivot connection hardware	
Pressure protection valve	1.0	CONNEX™ ST steer axle	1.5
Quick release valve	1.0	Includes:	
Solenoid valve	1.0	• Toe adjustment	
		• Removal and replacement of:	
		– Pivot connection hardware	
		Toe adjustment only	0.5
AIR RESERVOIR		AXLE	
Air reservoir	1.0	NON-INTEGRATED TRLAXLE™ TRAILER AXLE	
		Axle Only, with U-bolt attachment	5.5
AIR SPRINGS		Includes:	
Air spring/piston		• Removal and replacement of:	
Each air spring (up to three)	1.0	– Pivot connection hardware	
Each additional air spring	0.5	– Axle from beam	
Air spring pedestal (bolt-on)		• Redressing (grinding) axle seats	
INTRAAX®	0.5	• Axle alignment	
Includes:		• Removal and installation of:	
• Removal and installation of:		– Tyre/wheel assembly	
– Air spring lower mounting nut		– Hubs and drums	
– Pedestal mounting hardware		– Springs, air or mechanical	
– Tighten all fasteners to torque		– Shocks and shock mounting hardware	
Air spring pedestal (weld-on)		– Height control valve, if equipped	
INTRAAX	1.0	– ABS valves and sensor wiring	
Includes:		– Brake chambers	
• Removal and installation of:		– Slack adjusters	
– Air spring lower mounting nut		– S-cams & S-cam bearings	
– Pedestal mounting welds		– Brake shoes with linings and hardware, if required	
		U-bolts (per axle seat)	
		One U-bolt	0.8
		Both	1.4



COMPONENT DESCRIPTION	HOURS	COMPONENT DESCRIPTION	HOURS
INTEGRATED AXLE		BEAM (NON-INTEGRATED TRAILER AXLE)	
INTRAAX® HALFTRAAX (axle/beam weldment)		Beam and axle seat assembly for	
Equipped with ADB/Drum	8.0	HT (beam only)	4.0
Includes:		Includes:	
<ul style="list-style-type: none">• Removal and replacement of:<ul style="list-style-type: none">– Pivot connection hardware• Axle alignment• Removal and installation of:<ul style="list-style-type: none">– Tyre/wheel assembly– Hubs/Rotors– Air springs– Shocks and shock mounting hardware– Height control valve– ABS valves and sensor wiring– CONNEX ST lift components– Drum Brakes (all that apply)<ul style="list-style-type: none">» Drums» Brake chambers» Slack adjusters» S-cams & S-cam bearings» Brake shoes/pads and hardware		<ul style="list-style-type: none">• Removal and replacement of:<ul style="list-style-type: none">– Pivot connection hardware• Axle alignment• Removal and installation of:<ul style="list-style-type: none">– Tyre/wheel assembly– Hubs/Rotors for ADB– Air springs– Shocks and shock mounting hardware– Height control valve– ABS valves and sensor wiring– Calliper for ADB– Drum Brakes (all that apply)<ul style="list-style-type: none">» Drums» Brake chambers» Slack adjusters» S-cams & S-cam bearings» Brake shoes/pads and hardware	
CONNEX™ ST (includes lift)	10.0		
Includes:		BRAKES, ADB	
<ul style="list-style-type: none">• Removal and replacement of:<ul style="list-style-type: none">– Pivot connection hardware• Axle alignment• Removal and installation of:<ul style="list-style-type: none">– Tyre/wheel assembly– Air springs– Shocks and shock mounting hardware– ABS valves and sensor wiring– CONNEX ST lift components		Brake chamber	0.5
		Calliper	2.1
		Includes:	
		<ul style="list-style-type: none">• Removal and installation of:<ul style="list-style-type: none">– Tyre/wheel assembly	
		Pads (with linings, per axle)	
		INTRAAX®	1.0
		TRLAXLE®, CONNEX™ ST	1.0
		Includes:	
		<ul style="list-style-type: none">• Removal and installation of:<ul style="list-style-type: none">– Tyre/wheel assembly• Removal and replacement of:<ul style="list-style-type: none">– ADB brake pad with lining• Brake adjustment	
		NOTE: Does not require calliper, hub or rotor removal	
		Rotor	
		Inboard mounted	4.0
		Includes:	
		<ul style="list-style-type: none">• Removal and installation of:<ul style="list-style-type: none">– Tyre/wheel assembly– Calliper assembly– Hub– Inner wheel seal	
		Tighten calliper mounting screws to specified torque (per trailer, 6 screws for ea. of 4 wheel-ends)	0.8



COMPONENT DESCRIPTION	HOURS	COMPONENT DESCRIPTION	HOURS
BRAKES, DRUM			
Brake camshaft (requires hub removal)		Brake Chamber Bracket (BCB)	
CONNEX™ ST (with Hendrickson cam tube)	3.0	INTRAAX (each)	1.8
INTRAAX® models "A", "B" (prior to 5/2001)	3.0	TRLAXLE (each)	1.8
TRLAXLE® (no cam tube)	3.5	Includes:	
TRLAXLE (with Hendrickson cam tube)	4.0	• Remove and replace (weld attachment):	
Includes:		– Weld prep	
• Removal and replacement of:		– Position	
– S-cam bushes replacement (no cam tube)		– Weld	
– Cam tube (if equipped)		• Removal and installation of:	
• Removal and installation of:		– Brake chamber and hoses	
– Tyre/wheel assembly		• Check slack adjuster stroke adjustment	
– Slack adjuster		Brake drum (outboard)	0.5
– Hub and drum		Includes:	
• Brake adjustment		• Removal and installation of:	
Brake camshaft (does not require hub removal)		– Tyre/wheel assembly	
INTRAAX (with Hendrickson cam tube)	1.6	• Brake adjustment	
INTRAAX model "C" (No cam tube)	1.6	Brake dust shield (clamp and bolt-on)	
(prior to 5/2001)		Each (up to two)	0.5
Includes:		Each additional	0.25
• Removal and replacement of:		Brake shoes with linings (per axle)	
– S-cam bushes replacement (no cam tube)		INTRAAX	2.5
– Cam tube (if equipped)		(Does not require hub removal.)	
• Removal and installation of:		TRLAXLE	2.5
– Tyre/wheel assembly		Includes:	
– Brake drum		• Removal and installation of:	
– Slack adjuster		– Tyre/wheel assembly	
• Brake adjustment		– Drum	
Brake cam tube assembly		– Hub (Inboard mounted drum only)	
(Does not require tyre/wheel, drum, hub or S-cam removal.)		• Removal and replacement of:	
INTRAAX	0.8	– Brake shoe with lining	
TRLAXLE	1.0	• Brake adjustment	
Includes:			
• Removal and installation of slack adjuster			
• Brake adjustment			
Additional labour time is required for:			
• Weld according to procedure	0.3		
Brake chamber	0.8		



COMPONENT DESCRIPTION	HOURS	COMPONENT DESCRIPTION	HOURS
S-cam bush kit (each)	1.6	BUSHES	
Applies to Hendrickson axles without cam tube		Bush tube spacers (per axle)	2.0
Includes:		Equipped with UBL™	2.0
• Removal and installation of:		Equipped with UBL (Bolt-on front plate)	2.5
– Tyre/wheel assembly		Includes:	
– Drum		• Removal and replacement of:	
– Brake shoes with lining		– Bush tube spacers	
– Hub		– Pivot connection hardware	
– S-cam		• Axle alignment	
• Brake adjustment		Pivot Bushes (per axle)	4.0
Additional labour time is required for:		Equipped with UBL	4.5
• Hub removal (refer to hub hours)		Includes:	
S-cam support bracket (each)	3.0	• Removal and replacement of:	
Applies to Hendrickson axles without cam tube		– Pivot Bushes	
Includes:		– Bush tube spacers	
• Remove and replace (weld attachment):		– Pivot connection hardware	
– Weld prep		• Axle alignment	
– Position			
– Weld		CONNEX™ ST & DISC STEERABLE	
• Removal and replacement of:		Lock-straight assembly	
– S-cam support bracket assembly		Air actuator	0.5
• Removal and installation of:		Lock-straight air chamber	0.5
– Tyre/wheel assembly		Arm assembly (each)	0.5
– Hub and drum		Steering knuckle (each)	8.0
– Slack adjuster		Additional labour time is required for:	
– Air chamber		Kingpin and Bush (per steering knuckle)	2.0
– S-cam		Includes:	
• Brake adjustment		• Removal and installation of:	
Slack adjuster	0.7	– Tyre / wheel assembly	
Includes:		– Brake components	
• Troubleshooting		– Wheel-end components	
		– Wheel-cut stop bolts	
		– Kingpin	
		– Steering knuckle/kingpin	
		Tie rod	1.5
		Includes:	
		• Toe adjustment:	
		Tie rod end (each)	0.8
		Tie rod end (both)	1.5
		Includes:	
		• Toe adjustment:	

COMPONENT DESCRIPTION	HOURS	COMPONENT DESCRIPTION	HOURS
FRAME BRACKETS		TYRE INFLATION SYSTEMS	
Frame bracket (welded)	4.0	TIREMAAX™	
Includes:		TIREMAAX kit complete installation	
• Removal and replacement of		Tandem	
– Pivot connection hardware		• TIREMAAX Prepped Hendrickson axle	6.0
• Axle alignment		• Non-TIREMAAX prepped Hendrickson axle	12.0
Hanger wing		Each additional axle	
– One only	3.0	• TIREMAAX Prepped Hendrickson axle	1.0
– Additional hanger	1.5	• Non-TIREMAAX prepped Hendrickson axle	2.0
PIVOT BOLTS		TIREMAAX axle hose	1.2
Pivot connection hardware (per axle)	1.0	Includes:	
Includes:		• Removal and Replacement	
• Removal and replacement of:		– Internal axle hose	
– Existing pivot connection hardware		– Slack adjuster	
• Axle alignment		TIREMAAX axle vent	0.7
SHOCKS		Includes:	
Shock absorber	0.5	• Removal, Replacement & Adjust	
ZMD™ Down stop (Chain or Bumper)	0.5	– Slack adjuster	
Shock bracket (upper)		TIREMAAX controller assembly (All models)	1.0
Weld-on	1.5	TIREMAAX PRO & -LB adjust target pressure	0.5
Shock mount (lower)		TIREMAAX indicator lamp (All models)	0.5
INTRAAX®, HT250US	1.3	TIREMAAX tyre hoses (All models)	
Includes:		First wheel-end (one or two hoses)	0.3
• Removal and replacement of		Each additional wheel-end (per trailer)	0.2
– Nut within beam		TIREMAAX PRO-LB damping air tank	0.3
or		Tyre inflation system wiring harness	
– Modification / repair per L635		ABS-ready harness	0.5
Shock strap	0.5	UBL™ UNDER BEAM LIFT™	
Options:		UBL air spring (each)	1.0
Rear-mount shock bracket (lower)		UBL kit	
AAL, EDT and EDL	1.0	Complete installation (per axle)	4.5
		UBL bracket removal and installation	
		Frame bracket attachment (each)	1.0
		Beam attachment - welded (each)	1.7



COMPONENT DESCRIPTION	HOURS	COMPONENT DESCRIPTION	HOURS
WHEEL-END			
ABS wheel sensor (one)	1.0	Wheel-end Play (each wheel-end)	1.0
Includes:		Adjustment and lube (if necessary)	
<ul style="list-style-type: none">Removal and installation of:<ul style="list-style-type: none">Tyre/wheel assemblyBrake drum		Includes:	
ABS wheel sensor bracket (one)	0.6	<ul style="list-style-type: none">Removal and installation of:<ul style="list-style-type: none">Tyre/wheel assemblyHubcap	
Additional labour time may be required for these items:		Wheel studs (up to three)	1.7
<ul style="list-style-type: none">Hub removal (refer to hub hours)		<ul style="list-style-type: none">More than three (one hub)	2.2
Adjust ABS wheel sensors (without dust shields, up to four sensors)	0.5		
Axle filter	1.0		
(Tyre/wheel removal not required)			
Includes:			
<ul style="list-style-type: none">Removal and installation of:<ul style="list-style-type: none">Hubcap - replace gasketSpindle end plug - replace			
Axle vent	0.7		
Includes:			
<ul style="list-style-type: none">Removal, Replacement & Adjust<ul style="list-style-type: none">Slack adjuster			
Hub, drum brake (Removal and Replacement)	1.4		
Includes:			
<ul style="list-style-type: none">Removal and installation of:<ul style="list-style-type: none">Tyre / wheel assemblyBrake drum			
Additional labour time is required for these items:			
<ul style="list-style-type: none">Air disc brake, remove and install	1.7		
<ul style="list-style-type: none">ABS wheel sensor bracket, replace	0.6		
Hubcap/gasket (tyre / wheel removal not required)			
Each	0.5		
Inner wheel seal			
Drum brake	1.4		
Air disc brake	3.1		
Includes:			
<ul style="list-style-type: none">Removal and installation of:<ul style="list-style-type: none">Calliper AssemblyTorque calliper to carrier bolts			
Additional labour time is required for these items:			
<ul style="list-style-type: none">Bearing cone and cup (in hub) replacement (inner, outer or both)	0.9		
<ul style="list-style-type: none">ABS wheel sensor bracket	0.6		

TRUCK SUSPENSION REPAIR TIMES

COMPONENT DESCRIPTION HOURS

AIRTEK™ / STEERTEK™

Integrated Front Suspension and Steer Axle

Axle Assembly (including Knuckles)	3.2
Knuckle Assembly (per knuckle)	2.7
Leaf Spring Assembly (per side)	1.8
Air Springs (per side)	0.6
Kingpin Bushes (per side)	3.2
Tie Rod Assembly or Tie Rod End	1.5

Includes:

- Toe adjustment:

Height Control Valve	0.8
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Includes:

- Ride Height adjustment:

Shock Absorber (per shock)	0.5
Clamp Group (U-bolts or straight bolts)	1.0

COMFORT AIR™

Rear Air Suspension System

Main Support Member Assembly (per member)	1.5
Cross Channel	1.0
Frame Hanger (per hanger)	1.0
Clamp Group (per set)	
Top pad and/or bottom cap	1.5
U-bolt (per set)	1.0
Air Spring (per air spring)	1.0
Height Control Valve	0.8

Includes:

- Ride Height adjustment:

Shock absorber (per shock)	0.5
Transverse Torque Rod	1.5

COMPONENT DESCRIPTION HOURS

HAS

Heavy Duty Rear Air Suspension System

Frame Hanger (per hanger)	1.0
Main Support Member (per side)	1.5
Cross Channel	1.0
Clamp Group (per side)	
Top pad and/or bottom cap	1.5
U-bolts (per set)	1.0
Air Spring (per air spring)	1.0
Height Control Valve	0.8

Includes:

- Ride Height adjustment:

Radius/Tension Leaf (per side)	1.5
Rebound Roller (per axle)	0.5
Shock absorber (per shock absorber)	0.5
Slipper Pad (per axle)	1.0
Transverse Torque Rod (per rod)	1.5
Longitudinal Torque Rod (per rod)	1.0

HAULMAAX™

Heavy-duty Lightweight Rubber Suspension System

Progressive or Auxiliary Load Spring (per side)	0.8
Bar Pin End Bushes (per beam)	4.5
Bolster Springs (including wear plate)	
4 Bolsters on one Beam	1.5
Inboard Frame Bracket	1.0
Outboard Frame Bracket	1.5
Saddle	
1 Saddle	4.5
2 Saddles	6.0
Equalising Beams	3.0
Shock Absorbers (per shock)	0.5
Transverse Torque Rod (per rod)	1.5
Longitudinal Torque Rod (per rod)	1.5

**COMPONENT DESCRIPTION****HOURS****HN®**

VariRate™ Spring Suspension System

Auxiliary Load Spring (per side) 0.8

Bar pin End Bushes (per beam) 4.5

Bolster Springs

2 Bolsters on one Beam 1.0

Saddle Assembly (per saddle) 3.5

Equalising Beam (per beam) 3.0

Shock Absorbers (per shock) 0.5

Transverse Torque Rod (per rod) 1.5

Longitudinal Torque Rod (per rod) 1.5

PRIMAAX® EX

Severe-Duty Vocational Rear Air Suspension System

U-beam Assembly per Assembly 2.5

Includes: – Axle alignment

Frame Hanger per Hanger 2.0

Clamp Group (per side)

Top pad and/or bottom cap 1.5

U-bolt (per set) 1.0

D-pin Bushes (per axle) 4.5

Add for pivot bushes 2.0

Includes:

- Axle alignment

QUIK-ALIGN® Pivot Bushes (per axle) 4.5

Add for D-pin bushes 2.0

Includes:

- Axle alignment

Air Spring (per air spring) 1.0

Height Control Valve 0.8

Includes:

- Ride Height adjustment:

Shock Absorber (per shock) 0.5

Transverse Torque Rod (per rod) 1.5

Longitudinal Torque Rod (per rod) 1.0

COMPONENT DESCRIPTION**HOURS****RT™ / RTE™**

Steel Leaf Spring Rear Suspension System

Equalising Beam (per beam) 3.5

Saddle Assembly (per saddle) 3.5

Frame Hanger/Outboard bracket (per hanger) 1.5

Bar Pin End Bushes (per beam) 1.0

Bolster/Spring/Shear (per spring) 3.5

Centre Bush (per bush only) 0.8

Cross Tube 1.5

Top Pad (per top pad) 1.5

Shock Absorbers (per shock) 0.5

Transverse Torque Rod (per rod) 1.5

Longitudinal Torque Rod (per rod) 1.0

ULTIMAAX®

Advanced Severe-Duty Rear Rubber Suspension System

Progressive Load Spring (per load spring) 0.8

Bar Pin End Bushes (per beam) 4.5

Shear Springs

4 Shear Springs on one Hanger 3.0

Outboard Frame Bracket 1.5

Saddle

1 Saddle 4.5

2 Saddles 6.0

Equalising Beams 3.0

Shock Absorbers (per shock) 0.5

Transverse Torque Rod (per rod) 1.5

Longitudinal Torque Rod (per rod) 1.5



AUXILIARY SUSPENSION REPAIR TIMES

COMPONENT DESCRIPTION HOURS

COMPOSILITE™ EXS

Next Generation Truck Steerable Lift Axle	
Air control kit, with enclosure (LACV)	1.0
Air spring (per air spring)	1.0
Axle, Hendrickson fabricated axle	5.0
Axle seats, bolt-on (per side)	2.0
Beam assembly set (per axle)	2.0
Brake calliper, air disc brake (per wheel end)	2.0
Brake chamber	
Air disc brake (per wheel end)	1.0
Drum brake (per wheel end)	1.0
Brake shoe/pad replacement	
Bolt-on brakes (per wheel end)	1.0
Integrated brakes (per wheel end)	1.0
Brake slack adjuster, drum brake (per wheel end)	1.0
Kingpins (per axle)	6.0
Knuckle, backbone (per side)	3.0
Lock-straight (per wheel end)	1.0
Pivot bush set (per axle)	2.0
Side rail assemblies, bolted (per axle)	3.0
Stabilizers or reverse lockout shocks (per axle)	1.0
Upper air spring brackets, bolted (per side)	1.0
Wheel end	
Air disc brake (per wheel end)	3.0
Drum brake (per wheel end)	1.5
Wheel end inner seal	
Air disc brake (per wheel end)	2.5
Drum brake (per wheel end)	1.5

COMPONENT DESCRIPTION HOURS

TOUGHLIFT™ FMT

Non-Steerable Axle Suspension System (formerly HLM)	
Air control kit, with enclosure (LACV)	1.0
Air spring (per air spring)	1.0
Air spring upper brackets, bolted (per side)	1.0
Axle assembly, pusher or tag	4.0
Brake calliper, air disc brake (per wheel end)	2.1
Brake chamber	
Air disc brake (per wheel end)	0.5
Drum brake (per wheel end)	0.8
Brake slack adjuster, drum brake (per wheel end)	0.7
Frame brackets, bolted (per axle)	3.0
Pivot bush (per axle)	4.0
Wheel end	
Air disc brake (per wheel end)	3.1
Drum brake (per wheel end)	1.4
Wheel end inner seal	
Air disc brake (per wheel end)	3.1
Drum brake (per wheel end)	1.4



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CONTACTING HENDRICKSON & WARRANTY

Contact Hendrickson customer service before performing any warranty related repairs. Refer to the latest applicable warranty statements for more details regarding Hendrickson warranty, which are available www.hendrickson.com.au.

Contact Hendrickson customer service for technical assistance as needed. To do so, several options are available. Prior to contacting Hendrickson, it will be best to have the following information about your Hendrickson suspension available (all that apply):

- Suspension ID Tag information. Get the suspension model number, suspension serial number and approximate number of suspension kilometres.
- Vehicle VIN number. (Refer to truck or trailer OEM manual for VIN plate location.) Get the truck or trailer type (van, refrigerated, flat bed, etc...), manufacturer, VIN (vehicle identification number) and in-service or manufacture date.
- If applicable, description of the system problem, part number and/or part description of the reported non-functioning part.
- What troubleshooting and/or measurements have been performed?
- What service data literature do you have or need?
- Digital photos of suspension and damaged areas.

Detailed contacts for Hendrickson are available on the www.hendrickson.com.au website.

Hendrickson Customer Service may be contacted using the contact details shown below.

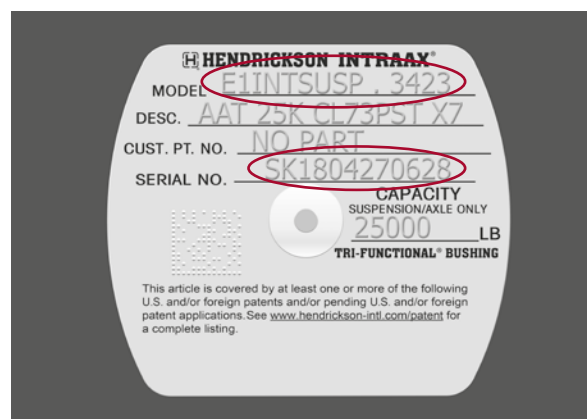


Figure 1: Typical Trailer Suspension ID Plate

The Figure 1 shows a typical Trailer Suspension ID plate. If claiming warranty the most important details are the Model Number and the Serial Number. For more details regarding trailer suspension identification refer to Trailer Suspension Identification manual, [97117-151](#). Refer our website for [Truck](#) or [Auxiliary](#) suspensions.

SUPPORT DOCUMENTATION

The following documents may be useful in identifying suspensions or providing relevant service procedures.

Other supporting documentation and service manuals may be found on the Hendrickson Asia Pacific website, www.hendrickson.com.au.

[97117-151](#) – Trailer Suspension Identification

[97117-161](#) – Trailer Suspension Maintenance

[97117-250](#) – Wheel End Maintenance

[L427](#) – TFB™ Pivot Bush Replacement Procedure

Revisions Table

DATE	REV	PAGE	DESCRIPTION
Feb-2024	A	All	Create new comprehensive document to replace 97117-214.

Actual product performance may vary depending upon vehicle configuration, operation, service and other factors.

All applications must comply with applicable Hendrickson specifications and must be approved by the respective vehicle manufacturer with the vehicle in its original, as-built configuration. Contact Hendrickson for additional details regarding specifications, applications, capacities, and operation, service and maintenance instructions.

Need Help? Australia Call **+61 3 8792 3600** or Email **customerservice@hendrickson.com.au**

New Zealand Call **+64 9 570 4721** or Email **nz-customerservice@hendrickson.co.nz**



www.hendrickson.com.au

HENDRICKSON ASIA PACIFIC PTY LTD
 ABN 21 004 992 769
 32-44 Letcon Drive, P.O. Box 1063
 Dandenong, Victoria, 3175
 61.3.8792.3600 • Fax 61.3.8792.3699

HENDRICKSON NEW ZEALAND
 Unit P, 24 Allright Place
 Mt Wellington, Auckland, 1060
 64.9.570.4721 • Fax 64.9.570.4816