

PARTS LIST

HN® Rear Suspension VariRate® Spring System

LIT NO: SP-212

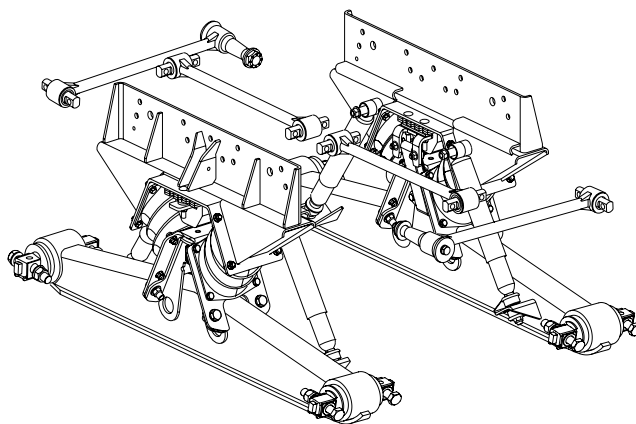
DATE: September 2015

REVISION: F

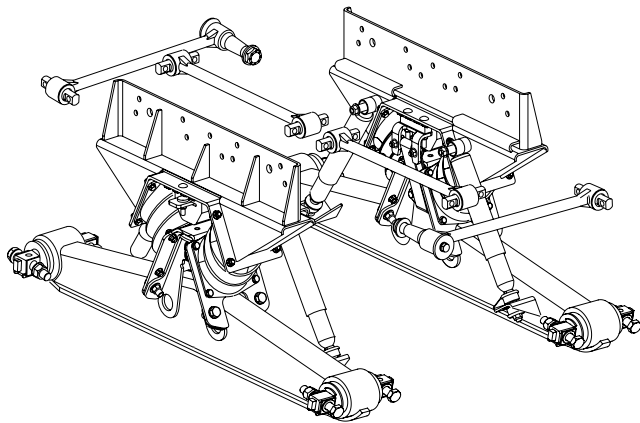
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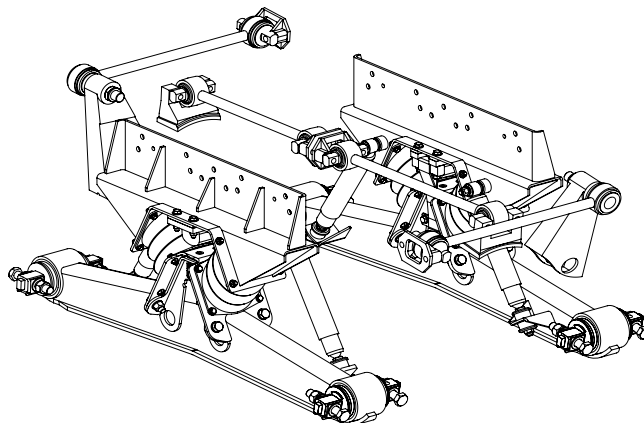
HN 40K • 46K • 52K - 11/00–Current



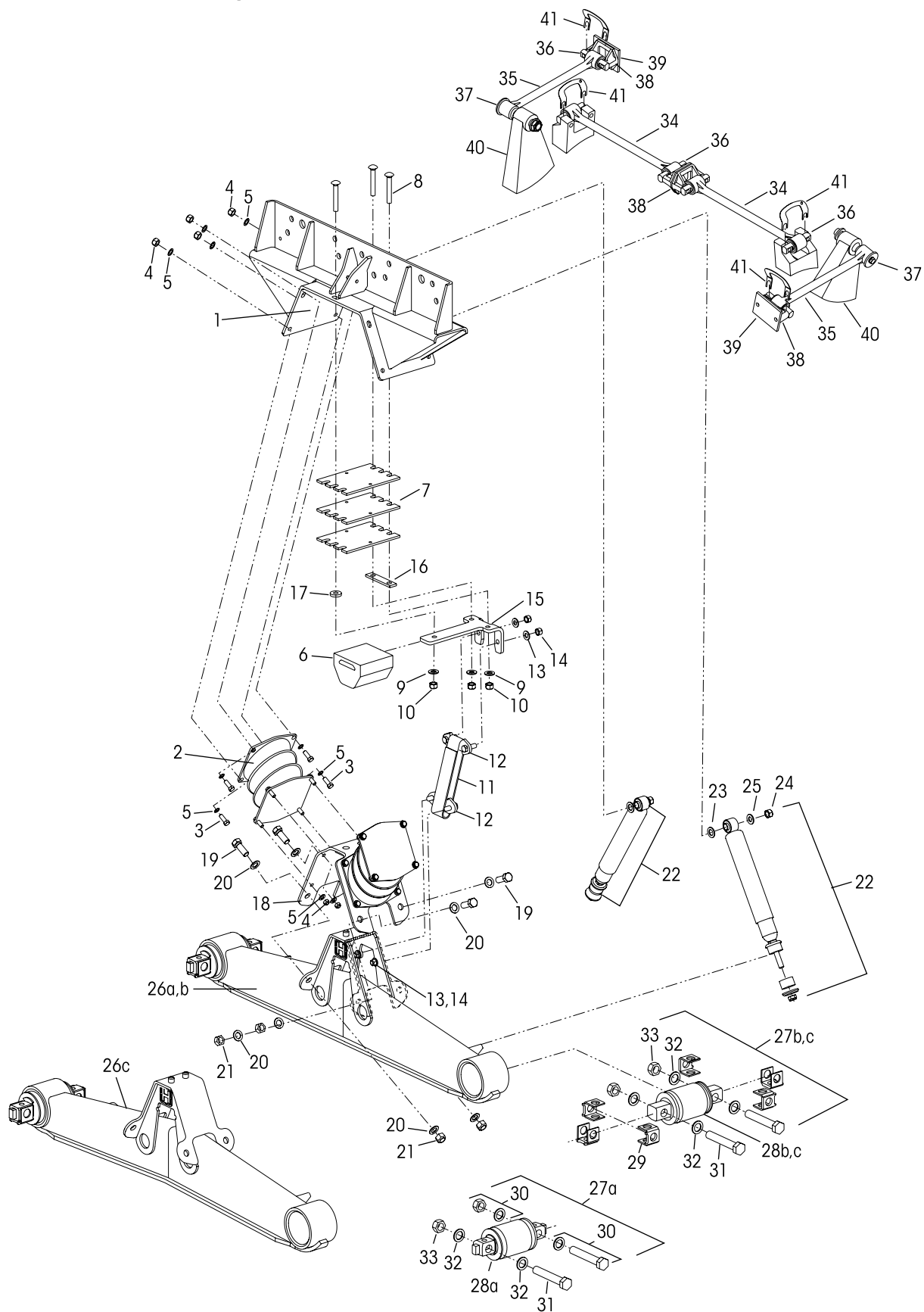
HN 40K • 46K • 52K - 9/98–11/00



HN 40K • 46K • 52K - 4/96–8/98



Vehicles built AFTER 11/00

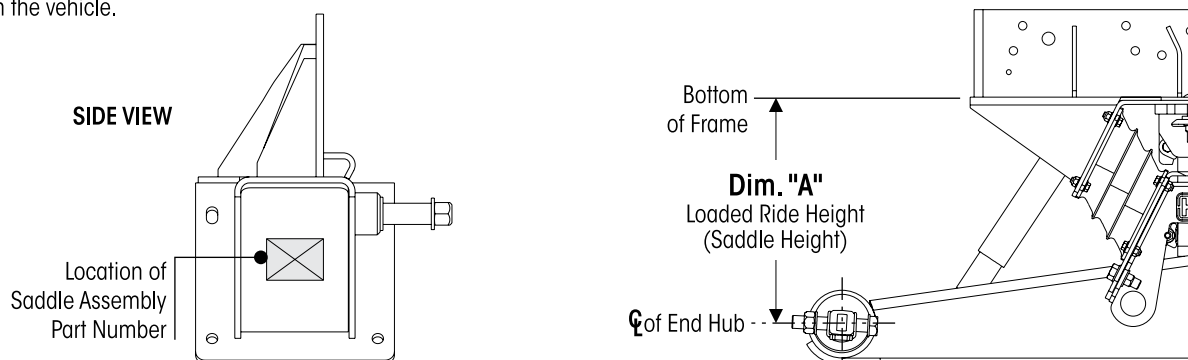




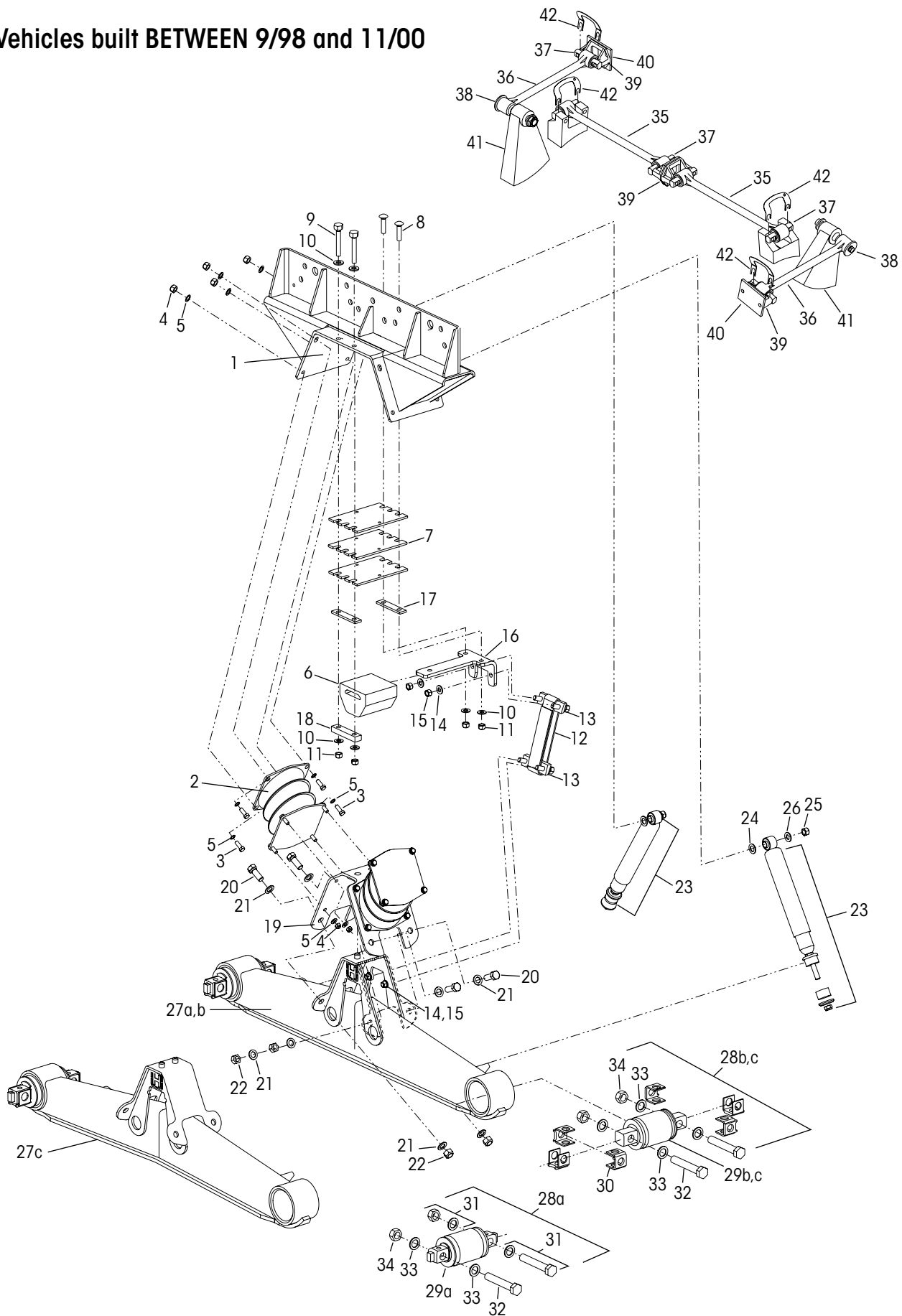
			VEHICLE				VEHICLE
KEY NO.	PART NO.	DESCRIPTION	QTY.	KEY NO.	PART NO.	DESCRIPTION	QTY.
1		Saddle Assembly, See Figure 1 below, Dimension "A" Saddle Height, Includes Key Nos. 2-18	2	c	57889-004	40K, 52" Non-Shim Type	
	60686-0XX	16½", 17½", or 18½"			57889-005	40K, 52" Shim Type	
	58650-0XX	20¼" or 22½"			57889-001	40K, 54" Non-Shim Type	
	60879-000L	Bolster Spring Service Kit, One Set, (2 pc) Includes Key No. 2			57889-002	40K, 54" Shim Type	
2		*Bolster Spring	4	27		Bar Pin End Bushing Service Kit, One Wheel End,	
	34013-462	Bolster Spring Fastener Service Kit, One Side, Includes Key Nos. 3-5		a	34013-087L	Non-Shim Type, 28a, 30	
3	25114-011	¾"-20 UNF x 1 ¼" Bolt	32	b	34013-088L	Shim Type, Includes Key No. 28b, 29a-30	
4	48949-000	¾"-20 UNF-2B Locknut	32	c	34013-188L	Rotating, Shim Type, 28c, 29a-30	
5	22962-027	¾" Washer	64	28		*Bar Pin End Bushing	4
6	60314-000	Auxiliary Load Spring	2	a		Non-Shim Type	
7	58960-003L	Auxiliary Load Spring Shim	6	b		Shim Type	
8	58196-006	½"-13 UNC x 2¾" Round Head Square Neck Bolt <i>Replaces 58196-005</i>	6	c		Rotating, Shim Type	
9	22962-011	½" Washer	6	29		Bar Pin Shim	8
10	49846-000	½"-13 UNC-2A Locknut	6	a	50131-000	0.25" / 0.12" Standard	
11	57878-003	Rebound Strap	2	b	50130-000	0.19" / 0.19" Optional	
	60639-000	Anchor Plate Assembly, Includes Key Nos. 12-14	4	c	57026-000	0.375" Optional flat shim	
12		*Anchor Plate	4	30	34013-104	Bar Pin End Bushing Fastener Kit, One Wheel End, Includes Key Nos. 31-33	
13		*½" Washer	8	31	48941-000	1"-8 UNC x 6" Hex Bolt	8
14		*½"-13 UNC-2A Locknut	8	32	22962-008	1" Hardened Washer	16
15	58948-001	Auxiliary Load Spring Mounting Plate	2	33	48942-000	1"-8 UNC Locknut	8
16	58949-000	Auxiliary Load Spring Mounting Plate Shim (Inboard - ¼" thick)	2	34		**One-piece Longitudinal Torque Rod Assembly, Straddle/Straddle, Specify Length in mm ULTRA ROD®, Includes Key No. 36	
17	22962-020	Outboard Spacer (¼" thick)	2		62000-XXX	Front	1
18	58343-001	Saddle Vee Bracket	2		62001-XXX	Rear	1
		Vee Bracket Fastener Service Kits,			8240-00XX-XXX	****TRAAX ROD®, <i>Replaces 72000-XXX</i> <i>and 72001-XXX</i>	2
	58440-001	One Side, Includes Key Nos. 19-21		35		***One-piece Transverse Torque Rod Assembly, Straddle/Taper, Specify Length in mm ULTRA ROD, Includes Key Nos. 36-37	2
	58440-002	Axle Set, Includes Key Nos. 19-21			62350-XXX	ULTRA ROD, Includes Key Nos. 36-37	
19	50764-006	¾"-10 UNC-2A x 2" Hex Head Bolt	8		8244-0099-XXX	****TRAAX ROD, <i>Replaces 72350-XXX</i>	
20	22962-001	¾" Washer	16		8233-0099-XXX	****TRAAX ROD, <i>Replaces 92350-XXX</i>	
21	49842-000	¾"-10 UNC-2B Locknut	8	36	47691-000L	Straddle Bushing	4
22	60680-003L	Shock Absorber	4	37	64697-000L	Taper Bushing	2
23	22962-001	¾" Washer	4			Optional Two-Piece Torque Rod Assembly with Bushings Service Kit	
24	30585-000	⅝" Upper Shock Locknut	4		60218-000	ULTRA ROD Straddle/Straddle	
25	22962-004	⅝" Upper Shock Washer	4		60215-000	ULTRA ROD Straddle/Taper	
26		Equalizing Beam Assembly	2		65781-000	ULTRA ROD PLUS Straddle/Taper	
a	58494-001	46K, 54" Non-Shim Type			65781-001	XTRB Straddle/Straddle	
	58494-002	46K, 54" Shim Type			65781-002	XTRB Straddle/Taper	
	58494-005	40K • 46K, 60" Non-Shim Type		38	22186-000	Torque Rod Frame Bracket	2
	58494-006	40K • 46K, 60" Shim Type		39	45045-010	Backup Plate, <i>Replaces 45045-003</i>	2
	58494-009	40K • 46K, 72½" Non-Shim Type		40		*****Transverse Rod Axle Bracket	2
	58494-010	40K • 46K, 72½" Shim Type		41	49689-000	Torque Rod Shim	As Req.
b	59973-003	52K, 54" Shim Type			70867-001	P-80 Lubricant - 10 ml (Not Shown)	Per Bushing 1

FIGURE 1

Locate the part number (see sideview) on the saddle assembly, if the saddle assembly number is not legible or available, contact the vehicle manufacturer (be prepared with the vehicle VIN number and saddle height) to request the appropriate part number equipped on the vehicle.



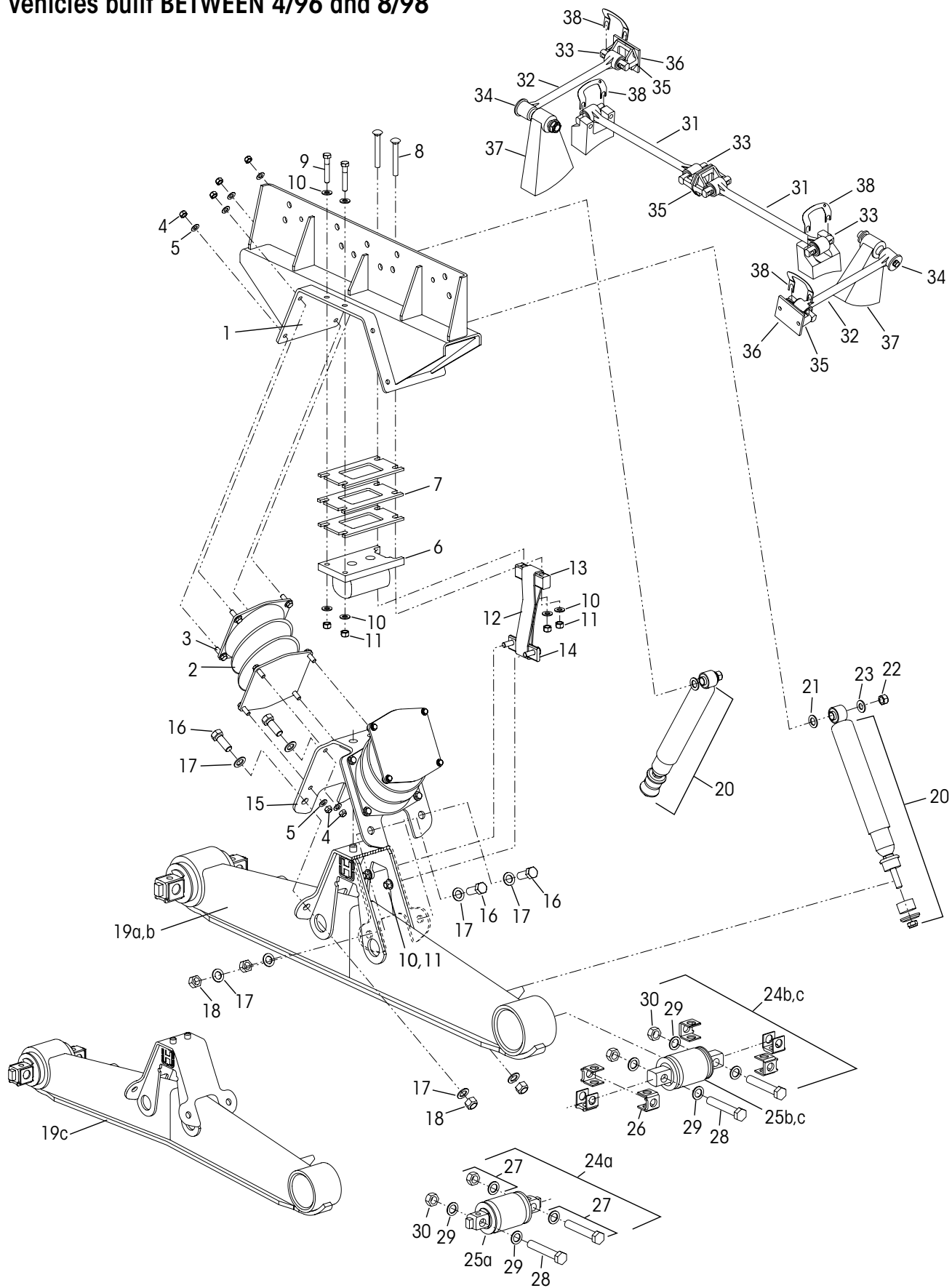
Vehicles built BETWEEN 9/98 and 11/00





			VEHICLE				VEHICLE
KEY NO.	PART NO.	DESCRIPTION	QTY.	KEY NO.	PART NO.	DESCRIPTION	QTY.
1		Saddle Assembly, See Figure 1 on page 3, Includes Key Nos. 2-19	2	28		Bar Pin End Bushing Service Kit, One Wheel End, Non-Shim Type, 29a, 31	
	60686-0XX	1 1/2", 1 7/8", or 1 3/4"		a	34013-087L	Non-Shim Type, 29a, 31	
	58650-0XX	20 1/4" or 22 1/2"		b	34013-088L	Shim Type Includes Key No. 29b, 30-31	
	60879-000L	Bolster Spring Service Kit, One Set, (2 pc) Includes Key No. 2		c	34013-188L	Rotating, Shim Type, 29c, 30-31	
2		*Bolster Spring	4	29		*Bar Pin End Bushing	4
	34013-462	Bolster Spring Fastener Service Kit, One Side, Includes Key Nos. 3-5		a		Non-Shim Type	
3	25114-011	7/16"-20 UNF x 1 1/4" Bolt	32	b		Shim Type	
4	48949-000	7/16"-20 UNF-2B Locknut	32	c		Rotating, Shim Type	
5	22962-027	7/16" Washer	64	30		Bar Pin Shim	8
6	58947-000	Auxiliary Load Spring	2	a	50131-000	0.25" / 0.12" Standard	
7	58960-001	Auxiliary Load Spring Shim	6	b	50130-000	0.19" / 0.19" Optional	
8	58196-004	1/2"-13 UNC x 2 1/4" Round Head Bolt	4	c	57026-000	0.375" Optional flat shim	
9	24531-016	1/2"-13 UNC x 3 1/2" Bolt	4	31	34013-104	Bar Pin End Bushing Fastener Kit, One Wheel End, Includes Key Nos. 32-34	
10	22962-011	1/2" Washer	12	32	48941-000	1"-8 UNC x 6" Hex Bolt	8
11	49846-000	1/2"-13 UNC-2A Locknut	8	33	22962-008	1" Hardened Washer	16
12	57878-003	Rebound Strap	2	34	48942-000	1"-8 UNC Locknut	8
13	60639-000	Anchor Plate Assembly, Includes Key Nos. 14-15 <i>Replaces 59779-000</i>	4	35		**One-piece Longitudinal Torque Rod Assembly, Straddle/Straddle, Specify Length in mm ULTRA ROD®, Includes Key No. 37	
14		*1/2" Washer	8		62000-XXX	Front	1
15		*1/2"-13 UNC-2A Locknut	8		62001-XXX	Rear	1
16	58948-001	Auxiliary Load Spring Mounting Plate <i>Replaces 58948-000</i>	2		8240-00XX-XXX	****TRAAX ROD, <i>Replaces 72000-XXX</i> <i>and 72001-XXX</i>	2
17	58949-000	1/4" Auxiliary Load Spring Mounting Plate Shim	4	36		***One-piece Transverse Torque Rod Assembly, Straddle/Taper, Specify Length in mm ULTRA ROD, Includes Key Nos. 37-38	2
18	58524-000	7/8" Rebound Strap Mounting Plate	2		62350-XXX	ULTRA ROD, Includes Key Nos. 37-38	
19	58343-001	Saddle Vee Bracket <i>Replaces 58343-000</i>	2		8244-0099-XXX	****TRAAX ROD, <i>Replaces 72350-XXX</i>	
		Vee Bracket Fastener Service Kit, One Side, Includes Key Nos. 20-22			8233-0099-XXX	****TRAAX ROD, <i>Replaces 92350-XXX</i>	
	58440-001	Axle Set, Includes Key Nos. 20-22		37	47691-000L	Straddle Bushing	6
	58440-002			38	64697-000L	Taper Bushing	2
20	50764-006	3/4"-10 UNC-2A x 2" Hex Head Bolt	8			Optional Two-Piece Torque Rod Assembly with Bushings Service Kit	
21	22962-001	3/4" Washer	16		60218-000	ULTRA ROD Straddle/Straddle	
22	49842-000	3/4"-10 UNC-2B Locknut	8		60215-000	ULTRA ROD Straddle/Taper	
23	60680-003L	Shock Absorber	4		65781-000	ULTRA ROD PLUS Straddle/Taper	
24	22962-001	3/4" Washer	4		65781-001	XTRB Straddle/Straddle	
25	30585-000	5/8" Upper Shock Locknut	4		65781-002	XTRB Straddle/Taper	
26	22962-004	5/8" Upper Shock Washer	4	39	22186-000	Torque Rod Frame Bracket	2
27		Equalizing Beam Assembly	2	40	45045-010	Backup Plate, <i>Replaces 45045-003</i>	2
a	58494-001	46K, 54" Non-Shim Type		41		*****Transverse Rod Axle Bracket	2
	58494-002	46K, 54" Shim Type		42	49689-000	Torque Rod Shim	As Req.
	58494-005	40K • 46K, 60" Non-Shim Type			70867-001	P-80 Lubricant - 10 ml (Not Shown)	Per Bushing 1
	58494-006	40K • 46K, 60" Shim Type					
	58494-009	40K • 46K, 72 1/2" Non-Shim Type					
	58494-010	40K • 46K, 72 1/2" Shim Type					
b	59973-003	52K, 54" Shim Type					
c	57889-004	40K, 52" Non-Shim Type					
	57889-005	40K, 52" Shim Type					
	57889-001	40K • 46K, 54" Non-Shim Type					
	57889-002	40K • 46K, 54" Shim Type					

Vehicles built BETWEEN 4/96 and 8/98

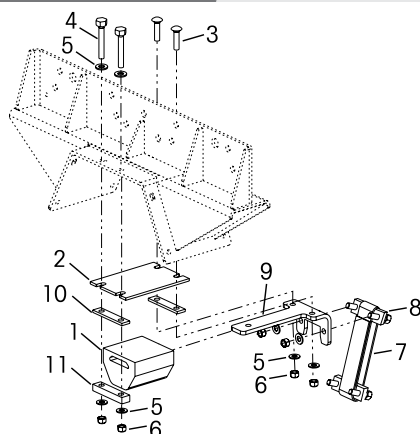




KEY NO.	PART NO.	DESCRIPTION	VEHICLE QTY.	KEY NO.	PART NO.	DESCRIPTION	VEHICLE QTY.
1		Saddle Assembly, <i>See Figure 1 on Page 3,</i> Includes Key Nos. 2-15	2	23	22962-004	5/8" Washer	4
	60686-0XX	16½", 17½", or 18½"		24		Bar Pin End Bushing Service Kit, One Wheel End,	
	58650-0XX	20¼" or 22½"		a	34013-087L	Non-Shim Type, 25a, 27	
	60879-000L	Bolster Spring Service Kit, One Set, (2 pc) Includes Key No. 2		b	34013-088L	Shim Type, Includes Key No. 25b, 26a-27	
2		*Bolster Spring	4	c	34013-188L	Rotating, Shim Type, 25c, 26a-27	
	34013-462	Bolster Spring Fastener Service Kit, One Side, Includes Key Nos. 3-5		25		*Bar Pin End Bushing	4
3	25114-011	7/16"-20 UNF x 1 1/4" Bolt	32	a		Non-Shim Type	
4	48949-000	7/16"-20 UNF-2B Locknut	32	b		Shim Type	
5	22962-027	7/16" Washer	64	c		Rotating, Shim Type	
6		Auxiliary Load Spring (<i>58189-000 no longer available, see conversion kit 57974-011 below</i>)	2	26		Bar Pin Shim	8
7	57993-002	Auxiliary Load Spring Shim	6	a	50131-000	0.25" / 0.12" Standard	
8	58196-002	1/2"-13 UNC-2A x 3 1/2" Round Head Bolt	4	b	50130-000	0.19" / 0.19" Optional	
9	24531-017	1/2"-13 UNC-2A x 2 1/4" Hex Head Bolt	4	c	57026-000	0.375" Optional flat shim	
10	22962-011	1/2" Washer	16	27	34013-104	Bar Pin End Bushing Fastener Kit, One Wheel End, Includes Key Nos. 28-30	
11	49846-000	1/2"-13 UNC-2A Locknut	12	28	48941-000	1"-8 UNC x 6" Hex Bolt	8
12	57878-003	Rebound Strap	2	29	22962-008	1" Hardened Washer	16
13	58524-000	Rebound Strap Mounting Plate	2	30	48942-000	1"-8 UNC Locknut	8
14	60639-000	Anchor Plate Assembly, Includes Fasteners <i>Replaces 59779-000</i>	2	31		**One-piece Longitudinal Torque Rod Assembly, Straddle/Straddle, Specify Length in mm ULTRA ROD®, Includes Key No. 33	
15	58343-001	Saddle Vee Bracket	2		62000-XXX	Front	1
		Vee Bracket Fastener Service Kit,			62001-XXX	Rear	1
	58440-001	One Side, Includes Key Nos. 16-18			8240-00XX-XXX	****TRAAX ROD, <i>Replaces 72000-XXX and 72001-XXX</i>	2
	58440-002	Axle Set, Includes Key Nos. 16-18		32		***One-piece Transverse Torque Rod Assembly, Straddle/Taper, Specify Length in mm	2
16	50764-006	3/4"-10 UNC-2A x 2" Hex Head Bolt	8		62350-XXX	ULTRA ROD, Includes Key Nos. 33-34	
17	22962-001	3/4" Washer	16		8244-0099-XXX	****TRAAX ROD, <i>Replaces 72350-XXX</i>	
18	49842-000	3/4"-10 UNC-2B Locknut	8		8233-0099-XXX	****TRAAX ROD, <i>Replaces 92350-XXX</i>	
19		Equalizing Beam Assembly	2	33	47691-000L	Straddle Bushing	6
a	58494-001	46K, 54" Non-Shim Type		34	64697-000L	Taper Bushing	2
	58494-002	46K, 54" Shim Type				Optional Two-Piece Torque Rod Assembly with Bushings Service Kit	
	58494-005	40K • 46K, 60" Non-Shim Type			60218-000	ULTRA ROD Straddle/Straddle	
	58494-006	40K • 46K, 60" Shim Type			60215-000	ULTRA ROD Straddle/Taper	
	58494-009	40K • 46K, 72½" Non-Shim Type			65781-000	ULTRA ROD PLUS Straddle/Taper	
	58494-010	40K • 46K, 72½" Shim Type			65781-001	XTRB Straddle/Straddle	
b	59973-003	52K, 54" Shim Type			65781-002	XTRB Straddle/Taper	
c	57889-004	40K, 52" Non-Shim Type		35	22186-000	Torque Rod Frame Bracket	2
	57889-005	40K, 52" Shim Type		36	45045-010	Backup Plate, <i>Replaces 45045-003</i>	2
	57889-001	40K • 46K, 54" Non-Shim Type		37		****Transverse Rod Axle Bracket	2
	57889-002	40K • 46K, 54" Shim Type		38	49689-000	Torque Rod Shim	As Req.
20	60680-003L	Shock Absorber	4		70867-001	P-80 Lubricant - 10 ml (Not Shown)	Per Bushing 1
21	22962-001	3/4" Washer	4				
22	30585-000	5/8" Locknut	4				

KEY NO. 6

AUXILIARY SPRING CONVERSION KIT NO. 57974-011



AXLE SET – INCLUDES KEY NOS. 1-11

			QTY.
1	60314-000	Auxiliary Spring	2
2	58960-003	3/4"-Auxiliary Spring Shim	2
3	58196-006	1/2"-13 UNC x 2 3/4" Round Head Bolt	4
4	24531-016	1/2"-13 UNC x 3 1/2" Bolt	4
5	22962-011	1/2" Hardened Washer	14
6	49846-000	1/2"-13 UNC Locknut	14
7	57878-003	Rebound Strap	2
8	64700-000	Anchor Plate Assembly	4
9	58948-001	Auxiliary Spring Mounting Plate	2
10	58949-000	1/4" Auxiliary Spring Mounting Plate Shim	4
11	58524-000	7/8" Rebound Strap Mounting Plate	4

■ Special Tools

BAR PIN STYLE END BUSHING TOOLS

INSTALLATION TOOL

Hendrickson Part No. 66086-103

OTC Part No. 1757

Visit otctools.com

Use with the equalizing beam removed from the truck, and in conjunction with OTC No. 51100 press plate and a 100 ton hydraulic shop press.



REMOVAL TOOLS

Hendrickson Part No. 66086-104

OTC Part No. 206457

Visit otctools.com



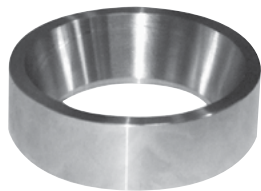
Hendrickson Part No. 66086-105

OTC Part No. 302030

Visit otctools.com



TORQUE ROD BUSHING FUNNEL TOOLS



Hendrickson Part No. 66086-001L
ULTRA ROD

Hendrickson Part No. 66086-000L
ULTRA ROD PLUS

NOTES: Equalizing beam axle brackets for drive axles are supplied by the axle manufacturer.

* Item included in assembly/kit only, part not sold separately.

** Hendrickson's part number is stamped on the torque rod for identification. Be sure to include the suffix number when ordering, this number indicates torque rod length. The Hendrickson 2-piece torque rods can be used to create the desired length, see Torque Rod Selection Guide Literature No. 45745-148.

*** Transverse torque rods are mandatory for HN rear suspension regardless of axle spacing, refer to Hendrickson Literature No. 59310-004 and 59310-058.

**** Longitudinal and transverse TRAAX Rod bushings are non-serviceable, the entire torque rod assembly requires replacement. Visit TRAAX ROD website www.traaxrods.com for more information.

***** Not supplied by Hendrickson, used for reference only. Hendrickson is not responsible for components supplied by the vehicle manufacturer. For assistance with maintenance and rebuild instructions on these components see vehicle manufacturer.

Hendrickson **HAULMAXX / HN Bolster Gauge**, Literature No. 48422-546 can be obtained on-line at www.hendrickson-intl.com/litform.

This is a general parts list to provide directional information. Components may vary by model. Questions in regards to parts, contact Hendrickson Truck Parts at 1.866.755.5968 (Toll-free U.S. and Canada), 630.910.2800 (Outside U.S. and Canada) or email: truckparts@hendrickson-intl.com.

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.

Call Hendrickson at 1.866.755.5968 (toll-free) or 1.630.910.2800 for additional information.



www.hendrickson-intl.com

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