

TRAILER SUSPENSION SYSTEMS



AFTERMARKET CATALOG



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HOW TO USE THIS CATALOG



SUSPENSION IDENTIFICATION SECTION

This portion of the catalog includes a terminology section, providing definitions to terms used commonly in the industry as well as terms specific to Hendrickson. It also provides steps to follow in order to locate the identification tag on a suspension, as well as an identification guide to help determine the type of suspension.

AIR SPRINGS SECTION

This section is designed to not only help identify the components of air springs but also to aid in identifying Hendrickson air springs by specific dimensional information. An application chart is also provided, listing which Hendrickson air springs are used on which models.

SHOCK ABSORBERS SECTION

This section of the catalog includes an identification chart, which lists the Hendrickson shock absorber part number along with the corresponding dimensional information. An application chart is also provided, listing which Hendrickson shock absorbers are used on which models. Finally, a shock strap kit reference chart is also included, providing a cross reference between Hendrickson shock absorber and the corresponding shock strap kit.

PRIMARY SUSPENSIONS SECTION

Exploded views of specific primary suspension models, along with the corresponding parts lists are provided in this section of the catalog.

SLIDER SUSPENSIONS SECTION

This section contains exploded views of specific slider suspension models, along with the corresponding parts lists.

CENTER LIFT KITS SECTION

Exploded views of specific center lift kits, along with the corresponding parts lists are provided in this portion of the catalog.

SURELOK® SECTION

This section depicts the exploded view of SURELOK®, Hendrickson's ride height locking device. Due to the uniqueness of this product, part numbers must be obtained through Hendrickson.

SERVICE KITS SECTION

This section of the catalog provides detailed component breakdowns of the various Hendrickson service kits.

SERVICE TOOLS SECTION

This section provides visuals, as well as descriptions of Hendrickson's most common service tools.

CANADIAN SUSPENSIONS SECTION

Exploded views of Canadian-specific suspension models, along with the corresponding parts lists are provided in this section of the catalog. The detailed component breakdowns of the various service kits are also listed.



HOW TO USE THIS CATALOG

FRENCH SECTION

This portion of the catalog contains a French translation of the General Information Section and Suspension Identification Section.

SPANISH SECTION

This portion of the catalog contains a Spanish translation of the General Information Section and Suspension Identification Section.

DISCLAIMER

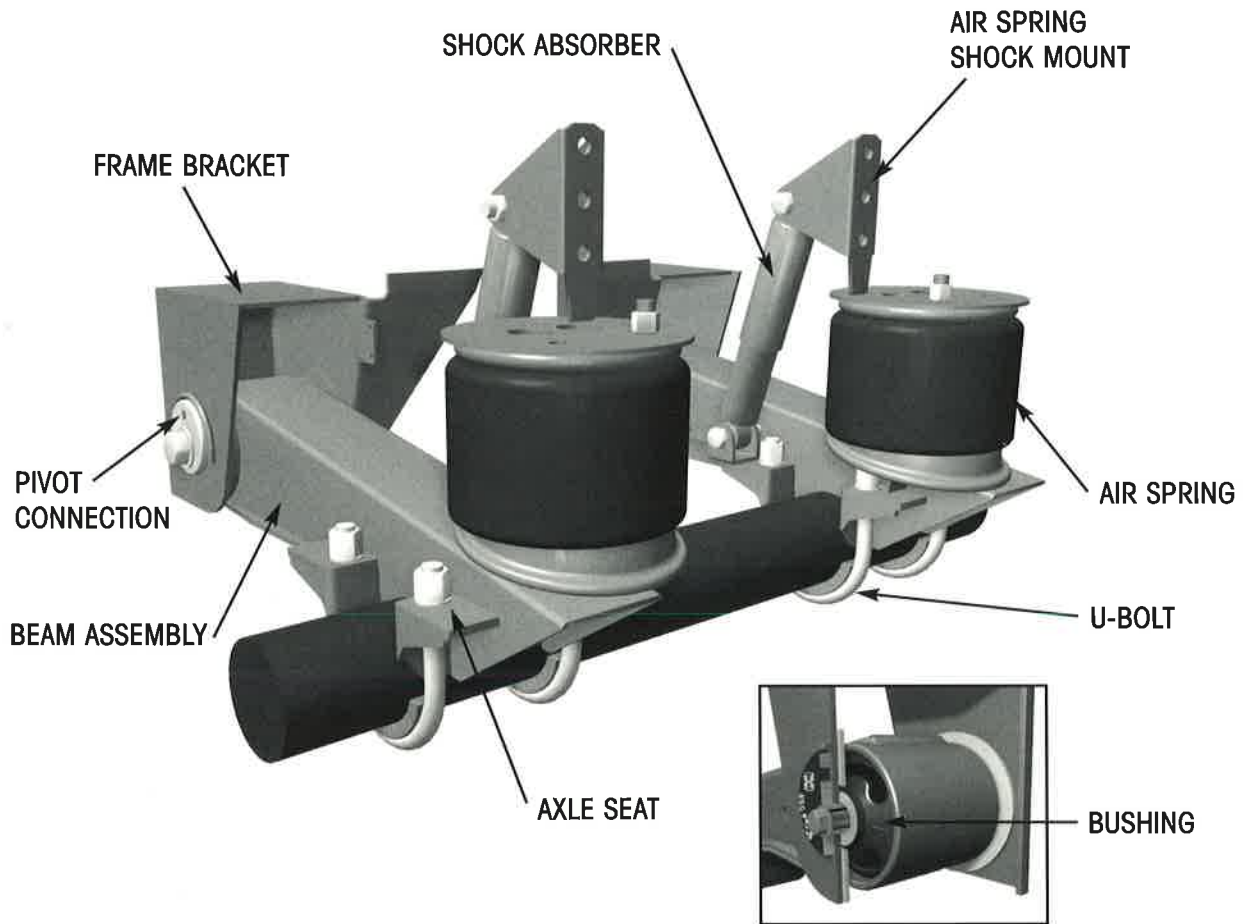
While the information provided herein is considered reliable, Hendrickson makes no representation or warranty, express or implied, as to the accuracy and completeness thereof. All of such information is subject to change without notice or liability. The exploded parts views contained herein are not to scale and may not show all parts included on the suspension. These views are for reference only. For the engineering drawing (blueprint) of your model, please contact Hendrickson.



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PARTS OF SUSPENSION



STANDARD TERMINOLOGY

AIR SPRING TERMINOLOGY

AIR SPRING An inflatable bag designed to hold a volume of air. Sometimes referred to as air bag. Supports the trailer with air pressure.

FLEX MEMBER Inflatable rubber portion of the air spring.

PISTON Bottom portion of the air spring that attaches to the flex member. Used to mount the air spring to the suspension beam.

BEAD PLATE Mounting surface of the air spring that is attached to the flex member.

AXLE TERMINOLOGY

AXLE TRACK The lateral distance between the center of the dual tires on an axle.

HN SPINDLE Similar to the D22 or TN spindle. A tapered spindle with small outer wheel bearings and large inner wheel bearings.

HP SPINDLE Similar to the P22 or TP spindle. A straight spindle with the same inner and outer wheel bearings.



STANDARD TERMINOLOGY

BEAM TERMINOLOGY

BEAM ASSEMBLY Sometimes referred to as walking beams or trailing arms. Load carrying structure that pivots at the frame bracket; connects to the axle tube and the air spring.

"Y" BEAM Suspension beam assembly that straddles the trailer frame at the pivot.

FRAME BRACKET TERMINOLOGY

FRAME BRACKET Sometimes referred to as hangers, towers or support boxes. Load carrying structure that bolts or welds to the trailer frame and attaches to the beam assembly at the pivot connection.

WINGED FRAME BRACKET A frame bracket with an integral gusset on the inside rear surface for lateral support.

WINGLESS FRAME BRACKET A frame bracket that does not include an integral gusset. Typically uses a separate 3" C-Channel to provide lateral support.

WELD-ON FRAME BRACKET A frame bracket that welds to a steel trailer frame.

BOLT-ON FRAME BRACKET A frame bracket with holes in the top plate for bolting to an aluminum frame.

WELDABLE BOLT-ON FRAME BRACKET A frame bracket that bolts to an aluminum frame using OEM provided mounting plate.

GENERAL TERMINOLOGY

RIDE HEIGHT Distance from the center of the axle to the mounting surface of the suspension (bottom of trailer frame or slider frame) at normal operating position.

JOUNCE The maximum upward motion of the axle from ride height toward the frame, including bumper compression.

REBOUND The maximum amount of downward axle travel allowed by the suspension; controlled by the shock absorber.

TOP MOUNT A suspension where the beam assembly is on top of the axle.

UNDERSLUNG A suspension where the beam assembly is under the axle.

TRI-FUNCTIONAL® BUSHING Rubber bushing located in the beam assembly at the pivot connection. Controls vehicle roll and axle alignment.

SHOCK STRAP Strap that is mounted around the shock that is used to provide additional strength for limiting rebound.

PIVOT BOLT The bolt that attaches the beam assembly to the frame bracket at the pivot connection.

WELDED ALIGNMENT Suspension alignment connection where the alignment is secured by welding.

QUIK-ALIGN® Suspension alignment connection where the alignment is adjusted using an eccentric alignment washer and secured by torquing the pivot bolt.

UNITIZED/ASSEMBLED The unit is shipped with the frame brackets attached to the beam assemblies.

NON-UNITIZED/UNASSEMBLED The unit is shipped with the frame brackets and pivot bolts loose.

LOADED TIRE RADIUS The distance between the axle spindle centerline and the ground when the vehicle is in its loaded condition. Determined by the size and design of the tire.

STANDARD TERMINOLOGY



HENDRICKSON PRODUCT TERMINOLOGY

T SERIES Hendrickson's first trailer suspension products. Offered in various capacities and configurations.

HT SERIES Hendrickson's improvement on the T model; similar capacities and configurations.

INTRAAX® Hendrickson's integrated axle, beam assembly and brake system.

SURELOK® A device used to maintain trailer deck height during loading and unloading. Also used in place of a dump valve to protect against trailer walk.

HEIGHT CONTROL VALVE Sometimes referred to as a leveling valve. An air valve that automatically responds to the position of the axle and vehicle frame. It maintains the distance from the centerline of the axle to the underside of the frame.

DUMP VALVE Air dump or exhaust valve. Added to the trailer suspension air system to exhaust the air from the air suspensions and increase stability during loading and unloading.

CENTER LIFT KIT An air operated mechanism that is used to raise a trailer axle off of the ground.

BUSHING TOOL Special tool used to remove and replace the Tri-Functional® Bushing of a beam assembly.

SLIDER TERMINOLOGY

SLIDER Sometimes referred to as a bogie or subframe. Movable suspension mounting used to reposition the trailer axle(s).

BODY RAIL Steel rail that is mounted to the trailer. Contains holes that align with the slider locking pins.

MANUAL STOP BAR A bar that is inserted into a set of slider body rails that is used to stop the movement of the slider while being repositioned.

LOCKING PIN Pin within a slider box assembly that keeps the slider from moving. Retracts to allow for the repositioning of the slider.



HOW TO IDENTIFY A MODEL

- STEP 1.** Find the identification tag on the suspension model by referencing the following chart for tag location.
- STEP 2.** If no tag is found, contact the trailer manufacturer with the necessary information (i.e. trailer serial number) to determine what suspension model is on the trailer.
- STEP 3.** If no suspension model can be obtained by completing steps 1 and 2, refer to the Identification Guides to help determine what suspension model is on the trailer. See instructions below.



SUSPENSION MODEL	TAG LOCATION
T Primary Suspension	Front of roadside frame bracket.
HT Primary Suspension	Front of roadside frame bracket or inside of curbside beam.
INTRAAX® Primary Suspension	Inside of curbside beam.
HS Slider with HT Suspensions	Front crossmember on HS box.
HIS Slider with INTRAAX® Suspensions*	Front crossmember on HS box.
K-2 Slider with HT Suspensions	On roadside slider box side rail above front frame bracket.
K-2 Slider with INTRAAX®	On roadside slider box side rail above front frame bracket. Also has blank INTRAAX® tag on inside of curbside beam.

* If the part is an HIS with INTRAAX® Suspension, contact Hendrickson for assistance. That specific suspension model is not listed in this parts catalog.

IDENTIFICATION GUIDE INSTRUCTIONS

- STEP 1.** Determine if unit is a fixed or slider suspension.
- STEP 2.** If it is a slider, use the following Identification Guides to determine the slider box type and the suspension model. Proceed to that model in the Slider Suspension Section.

If it is fixed, use the following Identification Guides to determine the suspension model. Proceed to that model in the Primary Suspension Section.

SLIDER BOXES

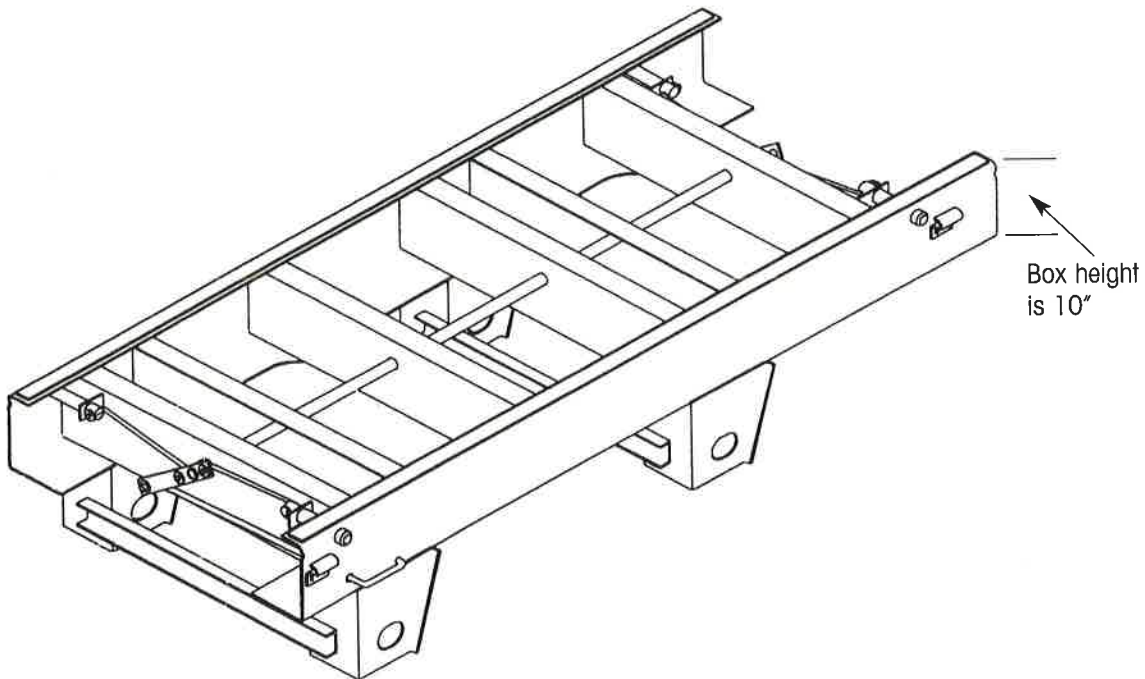
IDENTIFICATION GUIDE



INSTRUCTIONS

Hendrickson slider boxes are manufactured in two designs. In order to determine the box type, check to see if the crossmembers are in a ladder orientation or if the orientation forms two K's (see graphics). If the orientation forms a ladder, refer to the HS190T/230 box below. If the crossmembers form the "K" orientation, use the dimensions provided on the following page to determine which model it is.

HS190T/230 BOX

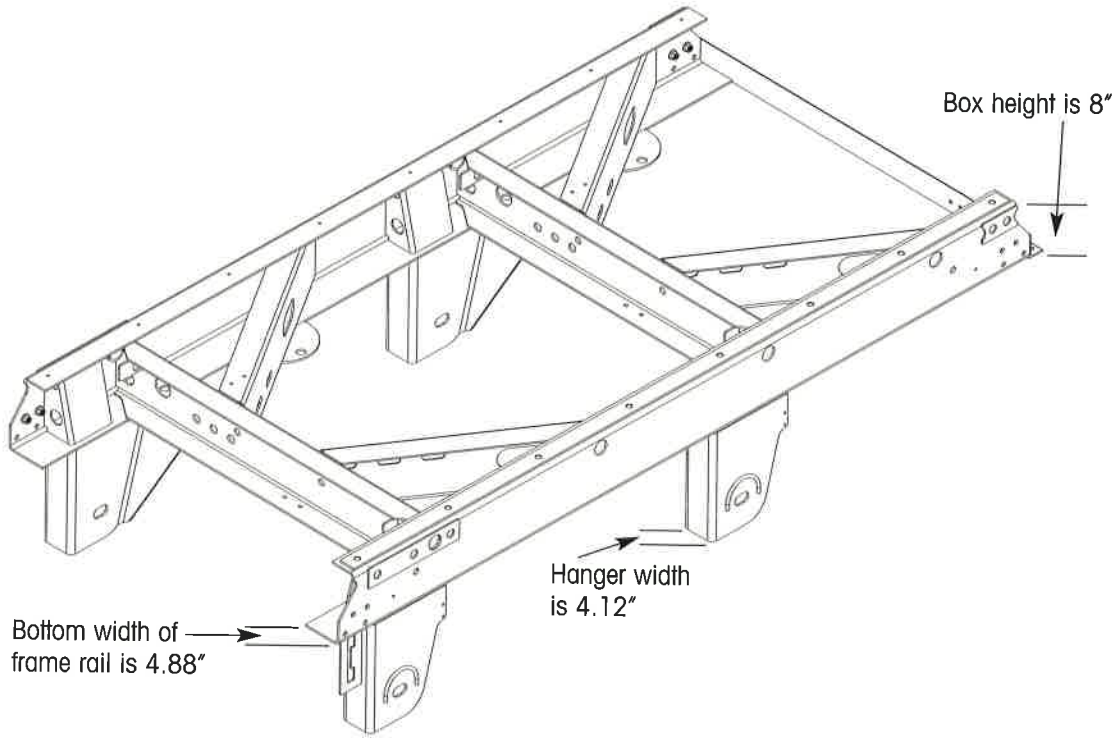




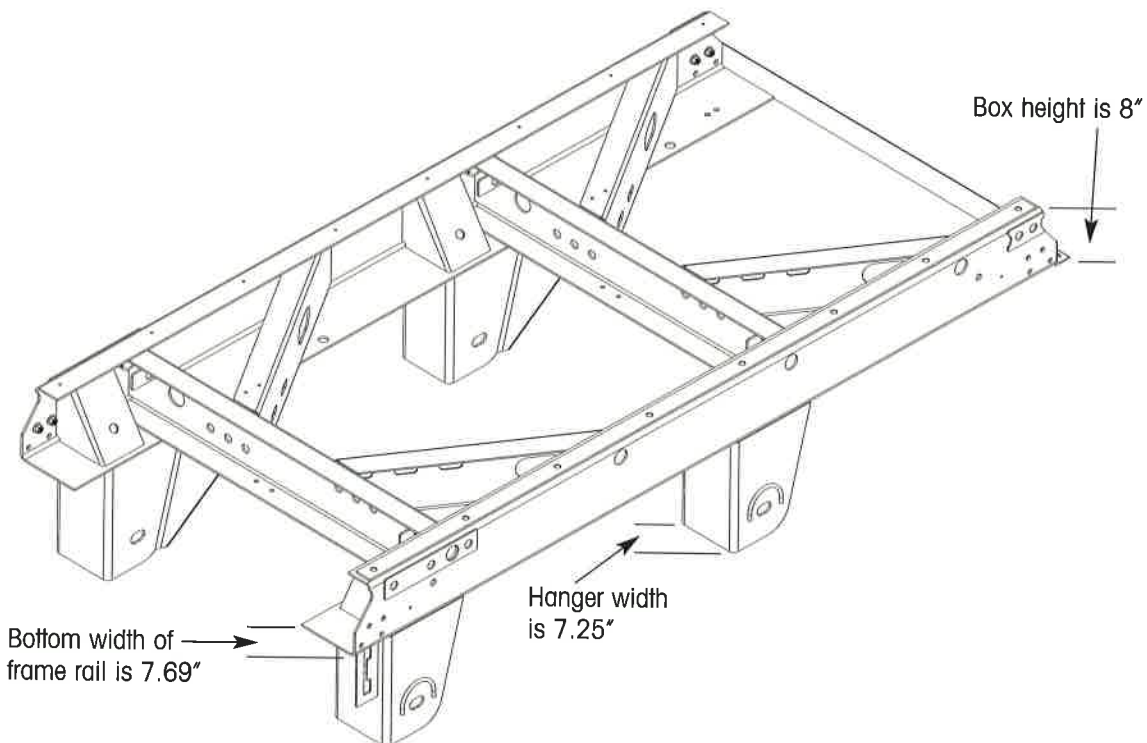
SLIDER BOXES

IDENTIFICATION GUIDE

HKA180 VANTRAAX® BOX



HK190T/230 AND HKA200/HKA250 VANTRAAX® BOX



SUSPENSION IDENTIFICATION

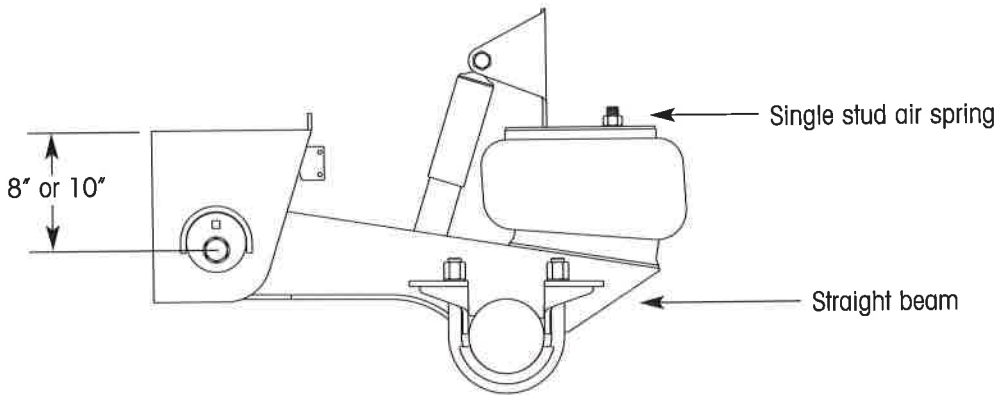
TOP MOUNT SUSPENSIONS IDENTIFICATION GUIDE



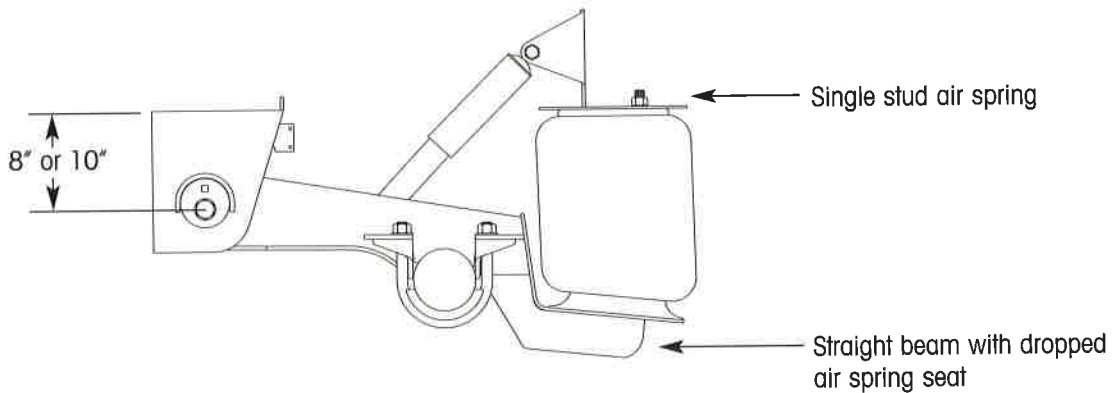
INSTRUCTIONS

Top mount suspensions are those with the beam assembly on top of the axle. The graphics illustrate the distinguishing characteristics of the various Hendrickson top mount suspensions. In order to determine the suspension model, find the graphic with the same identifying characteristics.

HT190 AND HT230 TOP MOUNTS



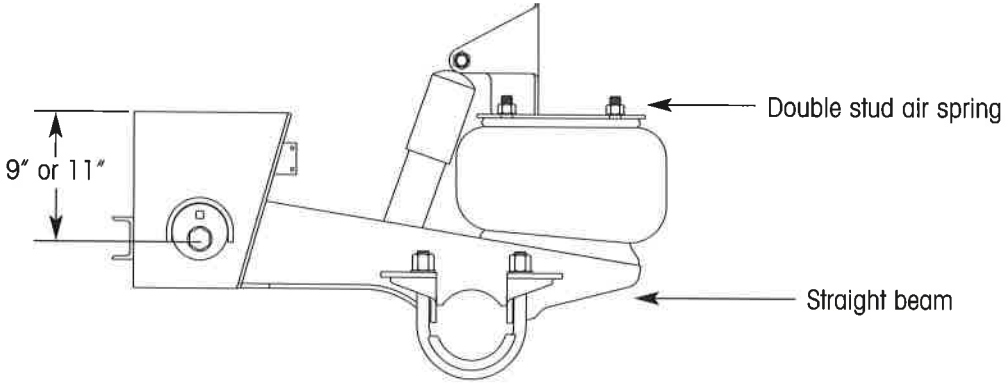
HT250T TOP MOUNTS



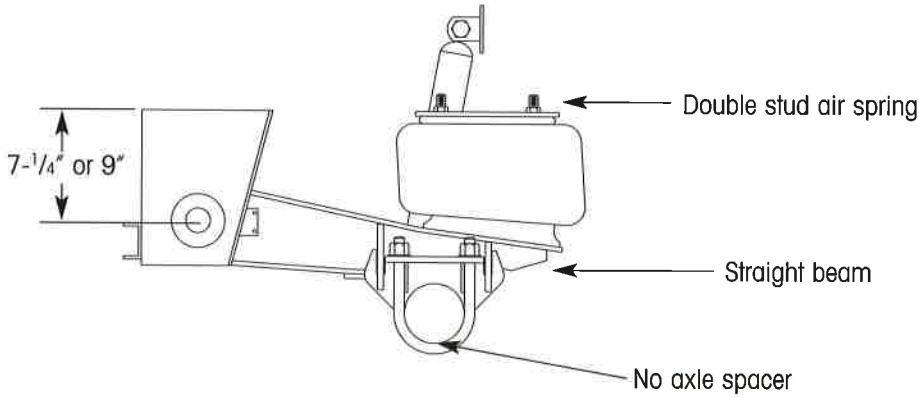


TOP MOUNT SUSPENSIONS IDENTIFICATION GUIDE

HT300 TOP MOUNTS



T TOP MOUNTS



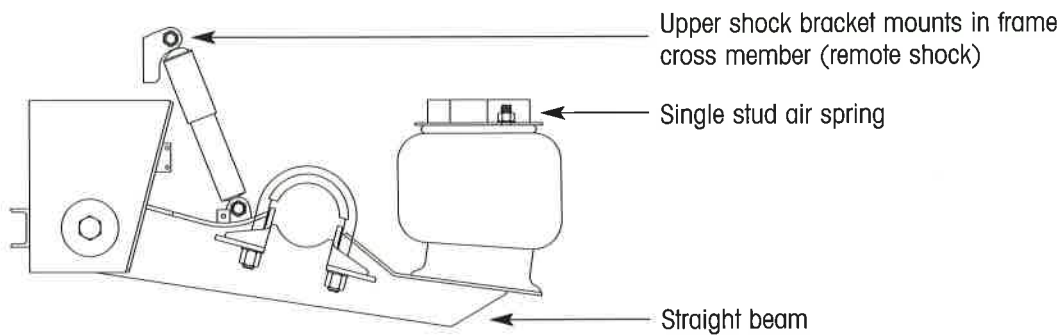
UNDERSLUNG SUSPENSIONS IDENTIFICATION GUIDE



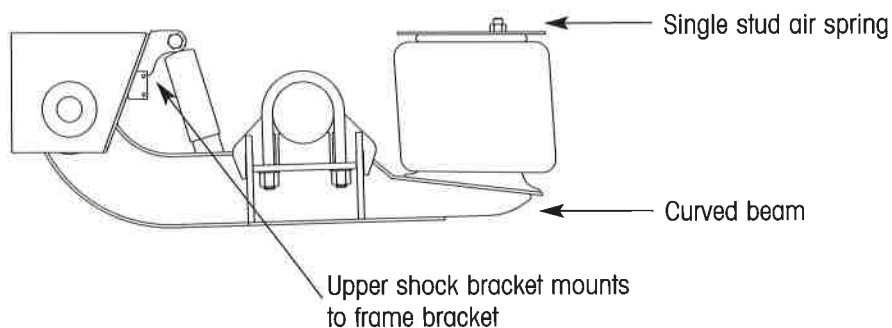
INSTRUCTIONS

Underslung suspensions are those with the beam assembly under the axle. The graphics illustrate the distinguishing characteristics of the various Hendrickson underslung suspensions. In order to determine the suspension model, find the graphic with the same identifying characteristics.

HT190U UNDERSLUNGS



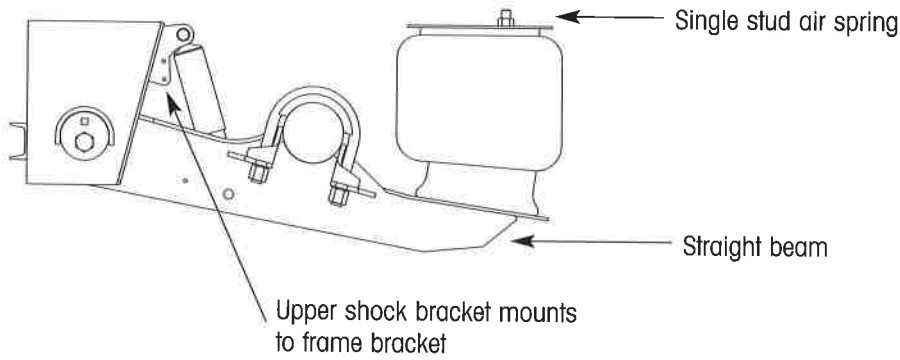
HT250U UNDERSLUNGS



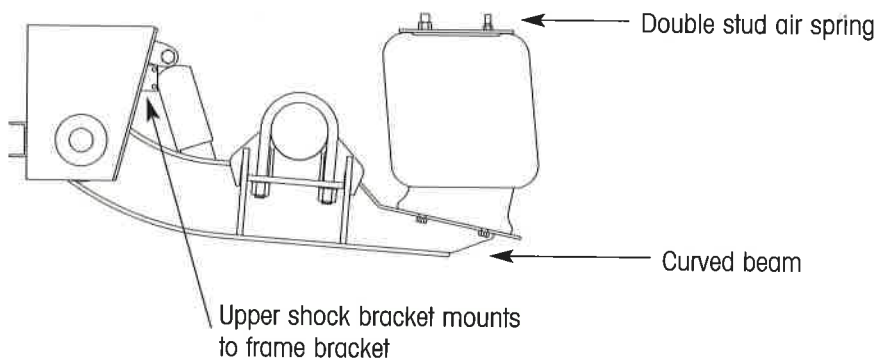


UNDERSLUNG SUSPENSIONS IDENTIFICATION GUIDE

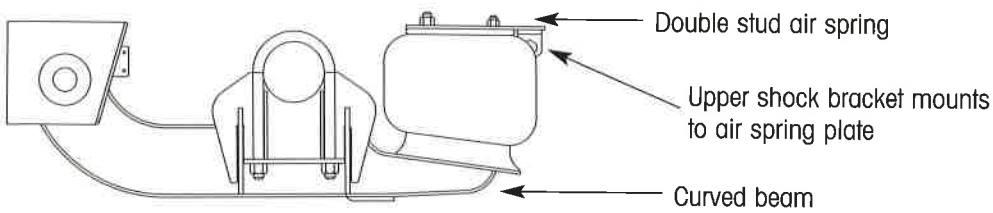
HT250US UNDERSLUNGS



HT300U UNDERSLUNGS



T UNDERSLUNGS



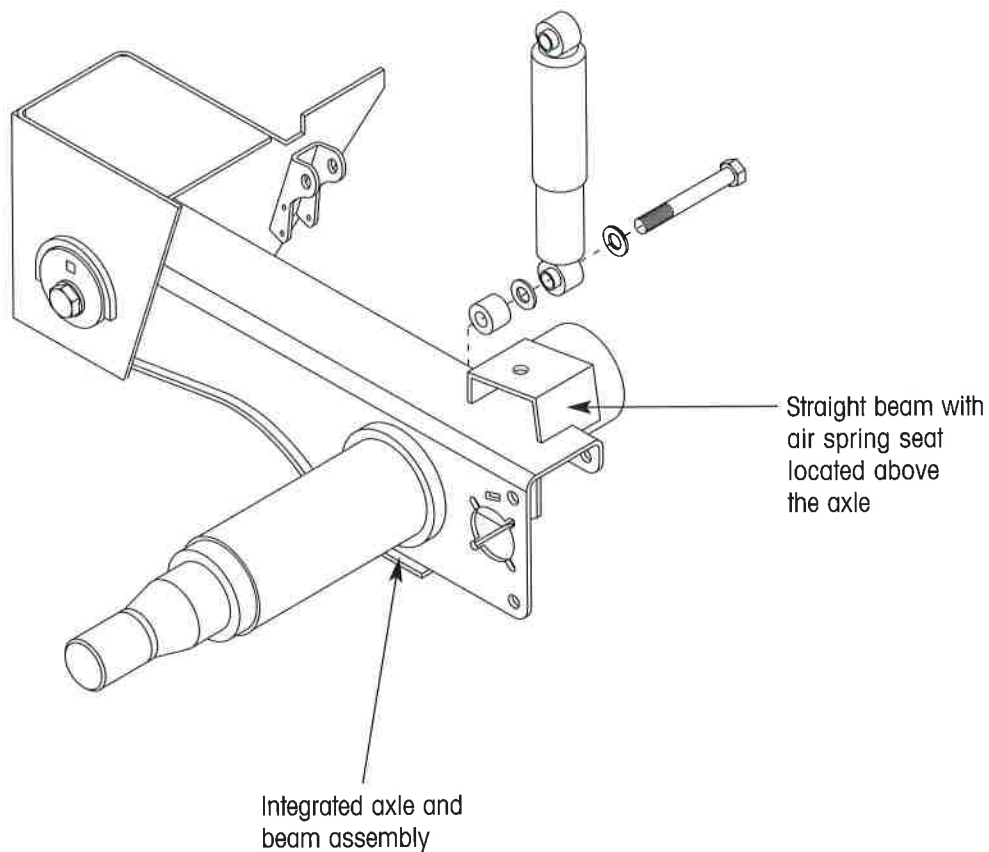
INTRAAX® SUSPENSIONS IDENTIFICATION GUIDE



INSTRUCTIONS

Hendrickson's INTRAAX® suspensions have an integrated axle and beam assembly. The graphics illustrate the distinguishing characteristics of the top mount and low ride models. In order to determine the suspension model, find the graphic with the same identifying characteristics.

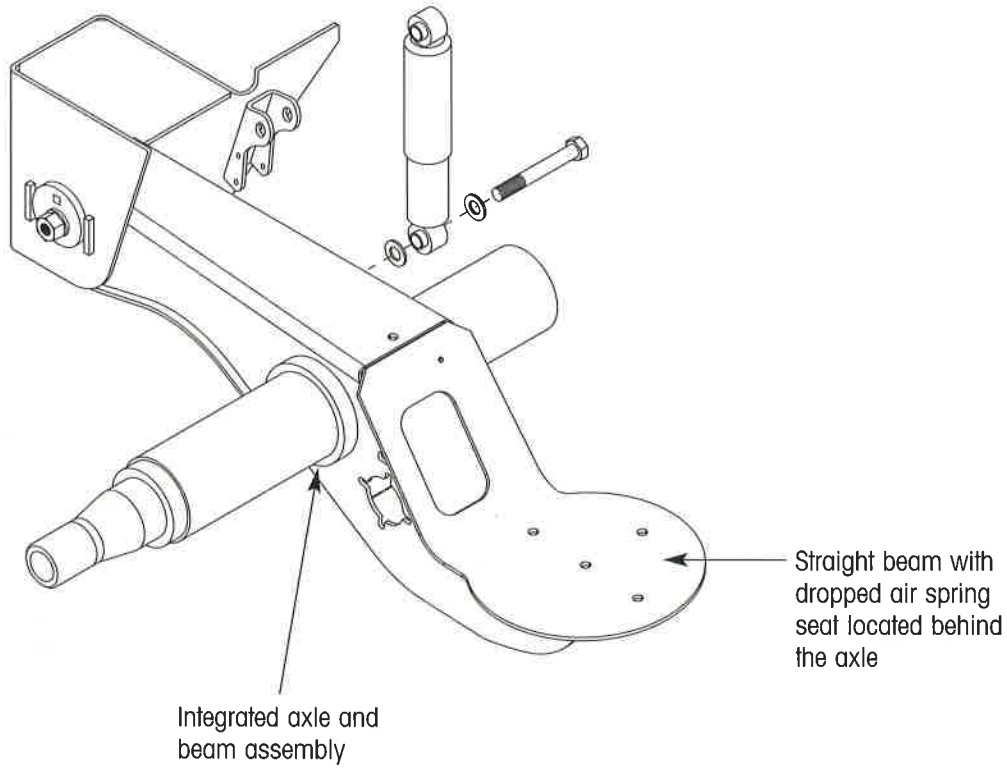
AA230T/AA250T INTRAAX®





INTRAAAX® SUSPENSIONS IDENTIFICATION GUIDE

AA230L/AA250L INTRAAAX®





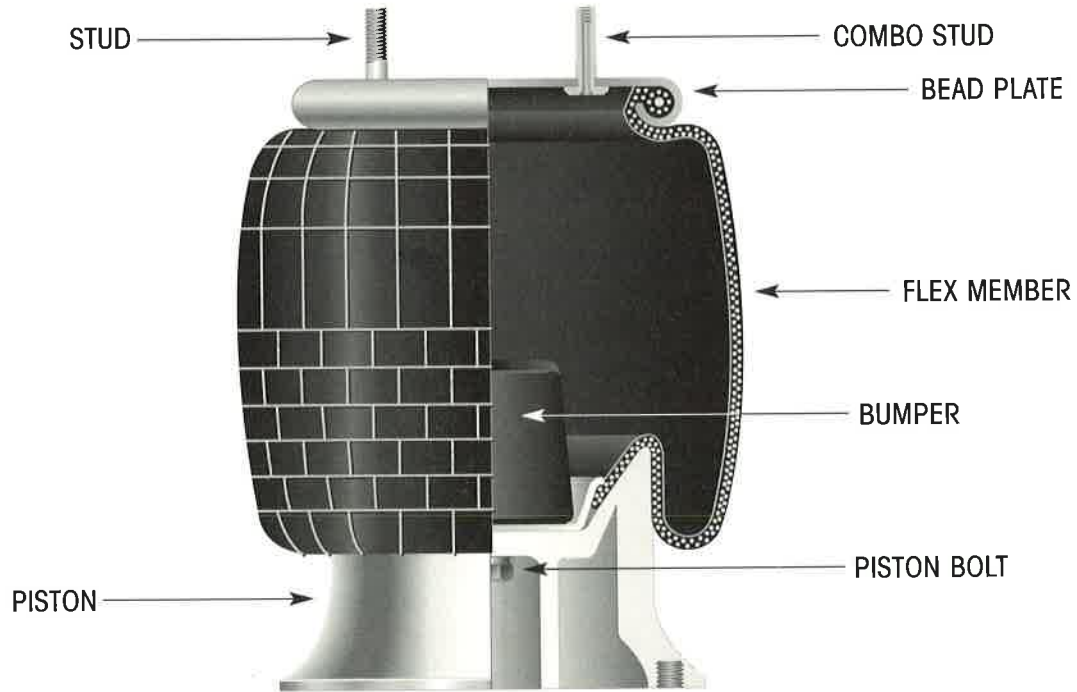
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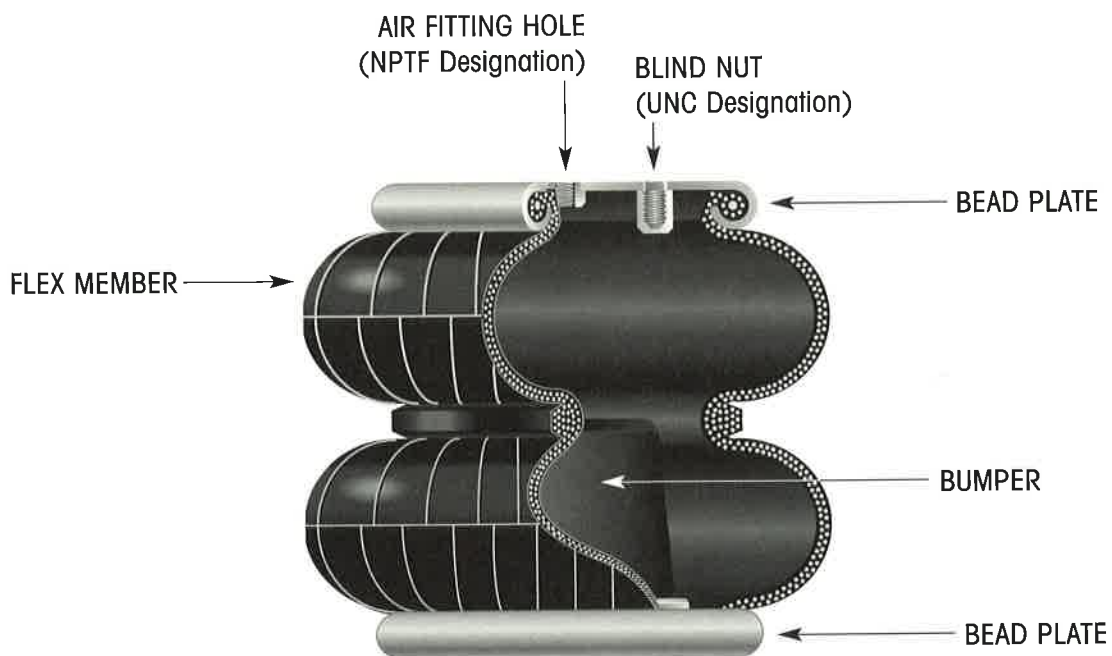
AIR SPRING COMPONENTS



ROLLING LOBE (REVERSIBLE SLEEVE) STYLE

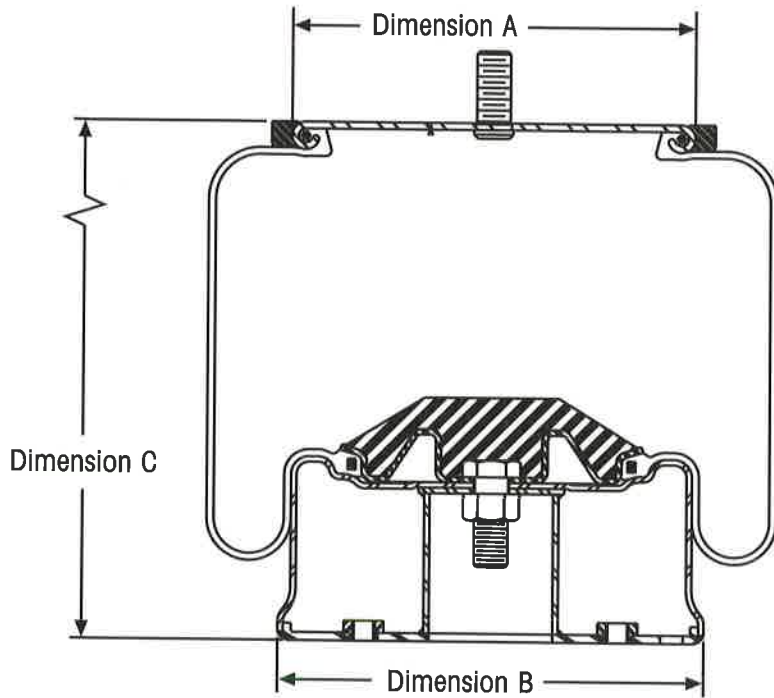


DOUBLE CONVOLUTED STYLE





AIR SPRING HOW TO IDENTIFY



- STEP 1.** Remove air spring from trailer.
- STEP 2.** Find the diameter of the top bead plate (Dim. A) by measuring as indicated on graphic.
- STEP 3.** Find the diameter of the bottom bead plate (Dim. B) by measuring as indicated on graphic.
- STEP 4.** Find the collapsed height of the air spring (Dim. C) by first opening the air port and pushing the air spring down until a hard stop is made. Make sure the flex member is not pinched between the bumper and the bottom bead plate. Find the dimension as indicated on graphic.

AIR SPRING IDENTIFICATION CHART

HENDRICKSON PART NO.	TYPE	TOP BEAD PLATE DIA. (Dim. A)	BOTTOM BEAD PLATE DIA. (Dim. B)	COLLAPSED HEIGHT (Dim. C)	TOP PATTERN ¹	ROTATION	BOTTOM PATTERN ¹
B-1080	Double Convolutd	11.31"	11.31"	3.8" - 4.2"	E	00	DD
B-1159	Double Convolutd	9"	9"	4.1" - 4.2"	B	00	BB
B-1245	Rolling Lobe	9"	10.1"	6.1"	A	45	AA
B-1345	Double Convolutd	9"	9"	3.0" - 3.5"	B	00	BB
B-2063	Rolling Lobe	11.31"	10.25"	8.9"	F	00	AA
B-2064	Rolling Lobe	9"	9.25"	4.4" - 4.8"	A	00	PP
B-2066	Rolling Lobe	9"	10.2"	7.7" - 8.0"	A	45	AA
B-2734	Double Convolutd	11.31"	11.31"	3.8" - 4.2"	E	00	DD
B-2827	Rolling Lobe	9"	9.5"	7.1"	A	00	AA
B-3184	Double Convolutd	11.31"	11.31"	3.8" - 4.2"	F	00	EE
B-3411	Rolling Lobe	9"	9.38"	7.3"	A	00	AA
B-3467	Rolling Lobe	11.31"	10.25"	8.9"	A	45	AA
B-3648	Rolling Lobe	11.31"	11.81"	5.6" - 5.7"	E	45	AA
B-3798	Double Convolutd	9"	9"	3.7"	D	00	BB
B-3830	Rolling Lobe	clamp plate	10.24"	8.9"	A	45	AA
B-3839	Rolling Lobe	11.31"	11.81"	5.7"	F	00	AA
B-3842	Rolling Lobe	9"	10.25"	9.2" - 9.5"	A	00	AA
B-4041	Rolling Lobe	9"	10.13"	7.7"	A	45	AA
B-4375	Rolling Lobe	9"	10.25"	9.2" - 9.5"	D	45	AA
B-4771	Rolling Lobe	11.31"	11.5"	5.7" - 5.8"	C	45	AA
B-4773	Rolling Lobe	9"	10.13"	9.5"	A	45	AA
B-5060	Rolling Lobe	9"	10.25"	9.5" - 10.1"	B	45	AA
B-5468	Double Convolutd	9"	9"	3.5"	B	00	OO
B-6195	Rolling Lobe	9"	10.1"	7.6" - 8.0"	A	00	AA

¹ See Bolt Pattern Section to determine top and bottom style.

IDENTIFICATION CHART cont.



HENDRICKSON PART NO.	TYPE	TOP BEAD PLATE DIA. (Dim. A)	BOTTOM BEAD PLATE DIA. (Dim. B)	COLLAPSED HEIGHT (Dim. C)	TOP PATTERN ¹	ROTATION	BOTTOM PATTERN ¹
B-6242	Double Convoluted	9"	9"	3.7" - 3.8"	B	00	BB
B-6412	Double Convoluted	11.31"	11.31"	4.8"	C	00	EE
B-7193	Rolling Lobe	9"	9.45"	6.4"	A	00	KK
B-8988	Rolling Lobe	9"	10.25"	10.1"	M	45	AA
B-9001	Rolling Lobe	11.31"	11.8"	5.7"	C	45	AA
B-9830	Double Convoluted	9"	9"	3.7"	N	00	BB
B-10170	Double Convoluted	9"	9"	4.2"	D	90	BB
B-10352	Rolling Lobe	9"	10.12"	9.4"	D	45	AA
B-11566	Rolling Lobe	9"	9.5"	7.1"	A	00	MM
B-11650	Rolling Lobe	9"	9.5"	4.8"	A	00	PP
B-12335	Double Convoluted	9"	9"	3.12"	B	00	BB
B-12353	Rolling Lobe	9"	10.25"	7.9"	A	00	AA
B-12514-4	Rolling Lobe	10.25"	10.13"	8.75"	F	00	AA
B-12514-5	Double Convoluted	9"	9"	3"	B	00	BB
B-12514-8	Rolling Lobe	10.25"	10.25"	8.75"	A	45	AA
B-12514-12	Rolling Lobe	11.31"	11.5"	5.5" - 5.9"	A	45	AA
B-13029	Double Convoluted	11.31"	11.31"	4.8"	C	00	BB
B-14147	Rolling Lobe	clamp plate	9.5"	7"	L	00	KK
B-14249	Rolling Lobe	9"	10.25"	9.2"	D	45	AA
B-14395	Double Convoluted	5.31"	5.31"	3"	U	00	TT
B-20228	Rolling Lobe	9"	9.5"	4.5"	G	90	KK
B-21323	Double Convoluted	6.4"	6.4"	3.6" - 3.8"	K	00	CC
C-7364	Rolling Lobe	9"	9.45"	6"	D	00	KK
C-13122	Rolling Lobe	11.31"	10.25"	10.1"	C	45	AA
C-20010	Rolling Lobe	9"	9.5"	5.6"	G	00	JJ
C-20124	Rolling Lobe	9"	11.06"	7.3"	G	00	JJ
C-20127	Rolling Lobe	10.38"	10.23"	7.3"	G	00	FF
C-20217	Rolling Lobe	9"	11.06"	7.3"	G	00	JJ
C-20223	Rolling Lobe	9"	9.75"	5.4" - 5.5"	G	00	JJ
C-20413	Rolling Lobe	9"	11.06"	7.3"	G	45	JJ
C-20414	Rolling Lobe	9"	10.23"	7.3"	G	45	FF
C-20716	Rolling Lobe	9"	11.06"	7.3"	G	00	FF
C-20900	Rolling Lobe	10.3"	9.21"	6.8"	V	00	UU
C-20901	Rolling Lobe	11.3"	10.15"	5.1"	V	00	UU
C-21208	Rolling Lobe	9"	9.49"	5.6"	T	45	JJ
C-21623	Rolling Lobe	10.38"	7.88"	7.3"	V	00	JJ
C-21624	Rolling Lobe	10.38"	9.18"	7.3"	V	00	JJ
C-21784	Rolling Lobe	11.3"	10.15"	5.1"	V	00	UU
C-21800	Rolling Lobe	10.38"	9.21"	4.9"	V	00	UU
C-21966	Rolling Lobe	10.38"	9.21"	8"	V	00	UU
C-22045	Rolling Lobe	10.38"	8.48"	7.3"	V	00	JJ
C-22046	Rolling Lobe	10.38"	9.43"	7.3"	V	00	JJ
C-22173	Rolling Lobe	10.3"	10.2"	8.9"	A	45	AA
C-22948	Rolling Lobe	10.38"	9.21"	8"	V	00	UU
C-23114	Double Convoluted	6.31"	6.31"	3"	S	00	CC
C-23611	Rolling Lobe	9"	10.25"	7.4"	V	00	UU
C-23612	Rolling Lobe	9"	10.28"	9.2"	V	00	UU
C-23613	Rolling Lobe	9"	10.25"	7.4"	V	00	UU
C-23614	Rolling Lobe	9"	10.28"	9.2"	V	00	UU
C-23720	Rolling Lobe	9"	10.25"	7.4"	V	00	UU
C-23721	Rolling Lobe	9"	10.25"	7.4"	V	00	UU
D-22697	Rolling Lobe	10.38"	9.5"	11.5"	A	45	JJ

¹ See Bolt Pattern Section to determine top and bottom style.



AIR SPRING APPLICATION CHART

HENDRICKSON PART NO.	MODEL(S) WHERE USED ²	NOTE
B-1080	CL, T	
B-1159	AB, LD	
B-1245	T	
B-1345	CL, HTBL, VCL, T, TMB	
B-2063	T	
B-2064	T, TDC	
B-2066	T, MB, T23-US	
B-2734	CL, T	
B-2827	T, TMB, T23-US	
B-3184	T	
B-3411	T23-US	
B-3467	T	
B-3648		Replaced by B-4771 for RL models with frame modifications
B-3798	LD	
B-3830	HT300U, T	
B-3839		Replaced by B-4771 for RL models with frame modifications
B-3842	T23-US	
B-4041	T	
B-4375	T, TMB	
B-4771	HC300, HS300, HT300, T, T23-RL	
B-4773	T, TMB	
B-5060	T	
B-5468	TMB	
B-6195	T, T23, TMB	
B-6242	HTCL	
B-6412	T	
B-7193	TL	
B-8988	T	
B-9001	T	
B-9830	T	
B-10170	LD	
B-10352	T23-US	
B-11566	T	
B-11650	T, TMB	
B-12335	VCL, HTBL	
B-12353	T, T23-US	
B-12514-4	T30	
B-12514-5	CL, BL	
B-12514-8	T30	
B-12514-12	T25	
B-13029	LD	
B-14147	TL	
B-14249	HT250U	
B-14395	VBL	
B-20228	HT190U	
B-21323	HTHL	
C-7364	CC	
C-13122	HC250U, HS250U, HT250U, HTDOLLY	
C-20010	HC230, HF230, HS230, HT230, HTDOLLY, HT250US	
C-20124	HS250U, HT250T, HT250U, HT250US	

² Air spring listed may not be the only air spring available for specified model.

APPLICATION CHART cont.



HENDRICKSON PART NO.	MODEL(S) WHERE USED ²	NOTE
C-20127	HT250T, HT250US, HT250US	
C-20217	HC190U, HF190U, HS190U, HT190U, HTDOLLY	
C-20223	HC190T, HF190T, HS190T, HT190T, HTDOLLY	
C-20413	HK200U, HT250U, HT250US	
C-20414	HT250U, HT250US	
C-20716	HT250U, HT250US	
C-20900	AA230	
C-20901		Replaced by C-21784 for AA250 models
C-21208	HC230, HT230	
C-21623		Replaced by C-22045
C-21624		Replaced by C-22046
C-21784	AA250, HKA250	
C-21800	AA200, AA230, HIK, HIS, HKA180	
C-21966	AA200, AA230, HIK, HKA200	Replaced by C-22948 for HKA180 models
C-22045	HK190T	
C-22046	HK230	
C-22173	HT300U	
C-22948	HKA180	
C-23114	UBL	
C-23611	AA250L	
C-23612	AA250L	
C-23613	AA230L	
C-23614	AA230L	
C-23720	AA230L	
C-23721	AA250L	
D-22697	HT200UAM, HK200M	

² Air spring listed may not be the only air spring available for specified model.

AIR SPRING

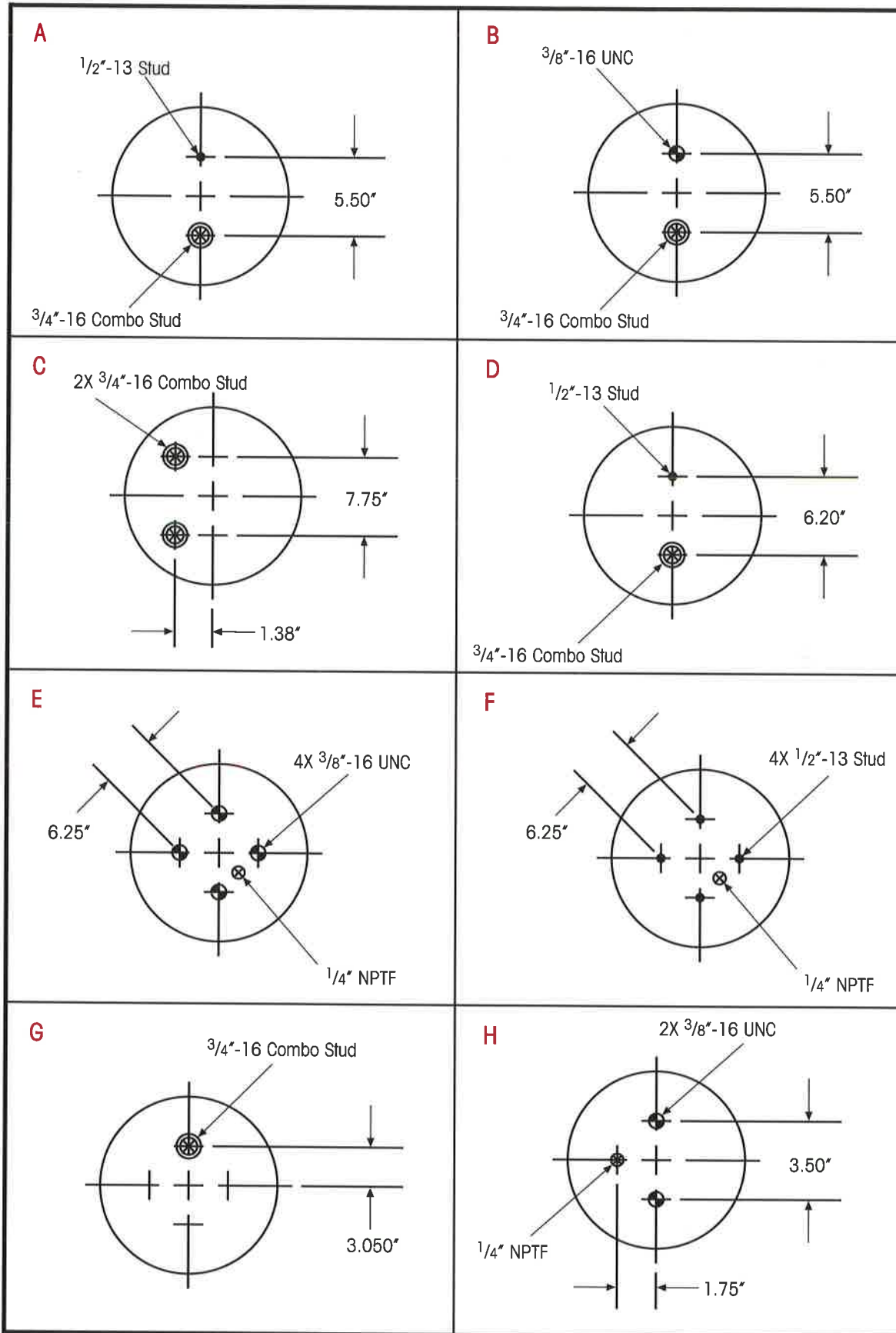
ROTATION DEFINITIONS

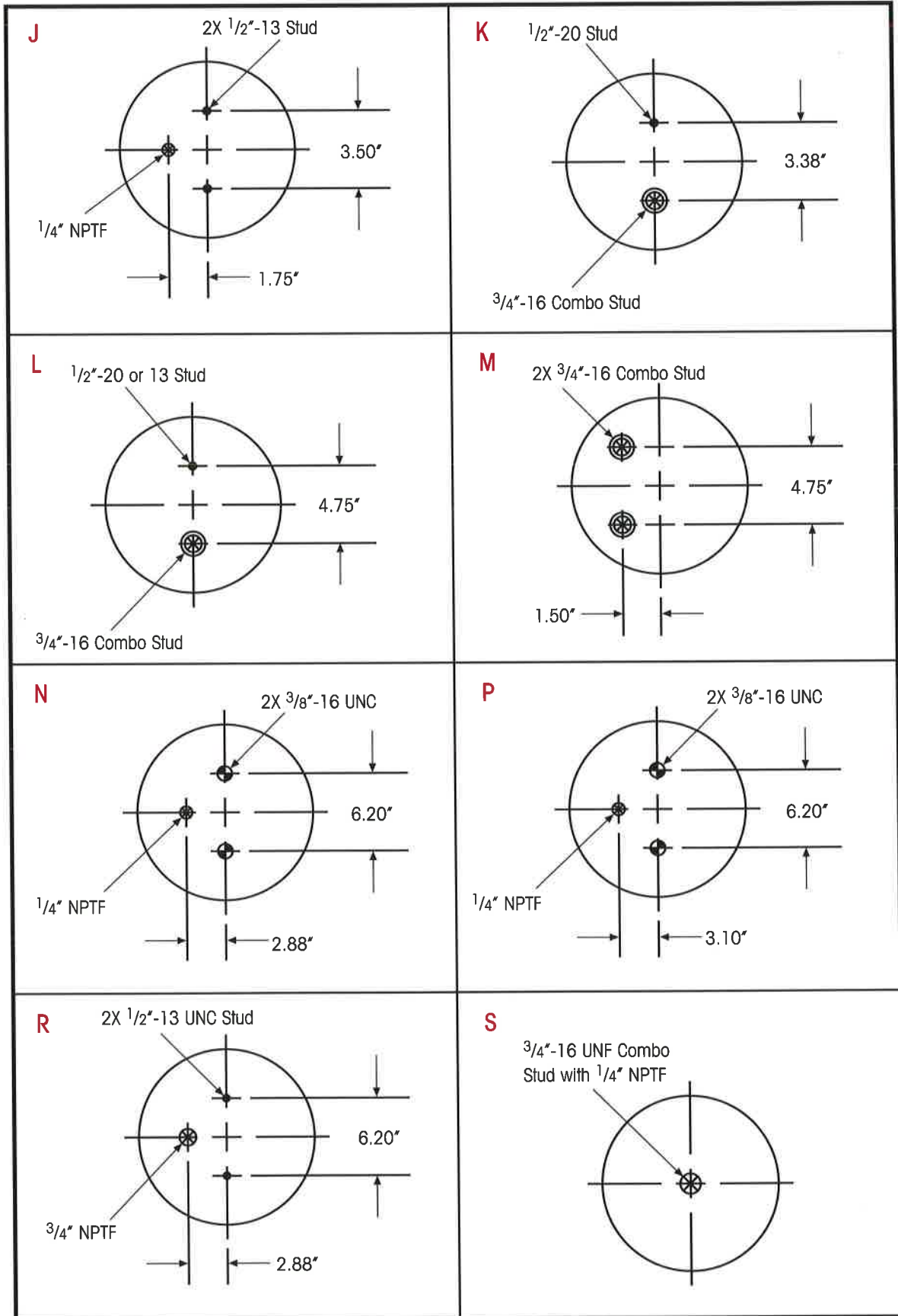
TOP BEAD PLATE VIEW	BOTTOM BEAD PLATE VIEW	
	PARALLEL ALIGNMENT	45 DEGREE ALIGNMENT
I.		
II.		
III.		90 DEGREE ALIGNMENT

NOTE: ALIGNMENT IS BASED ON THE ORIENTATION OF THE BOTTOM BEAD PLATE OR PISTON COMPARED TO THE TOP BEAD PLATE.



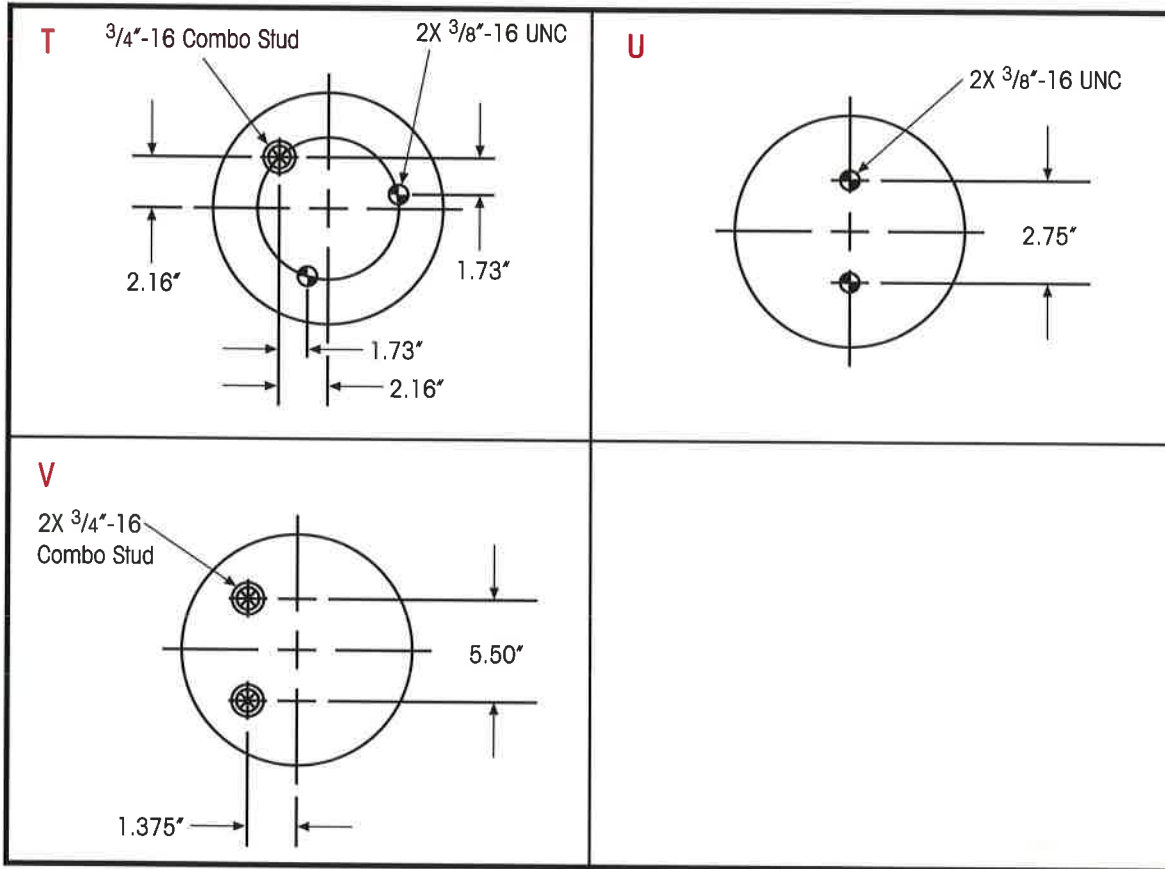
AIR SPRING TOP BEAD PLATE BOLT PATTERNS



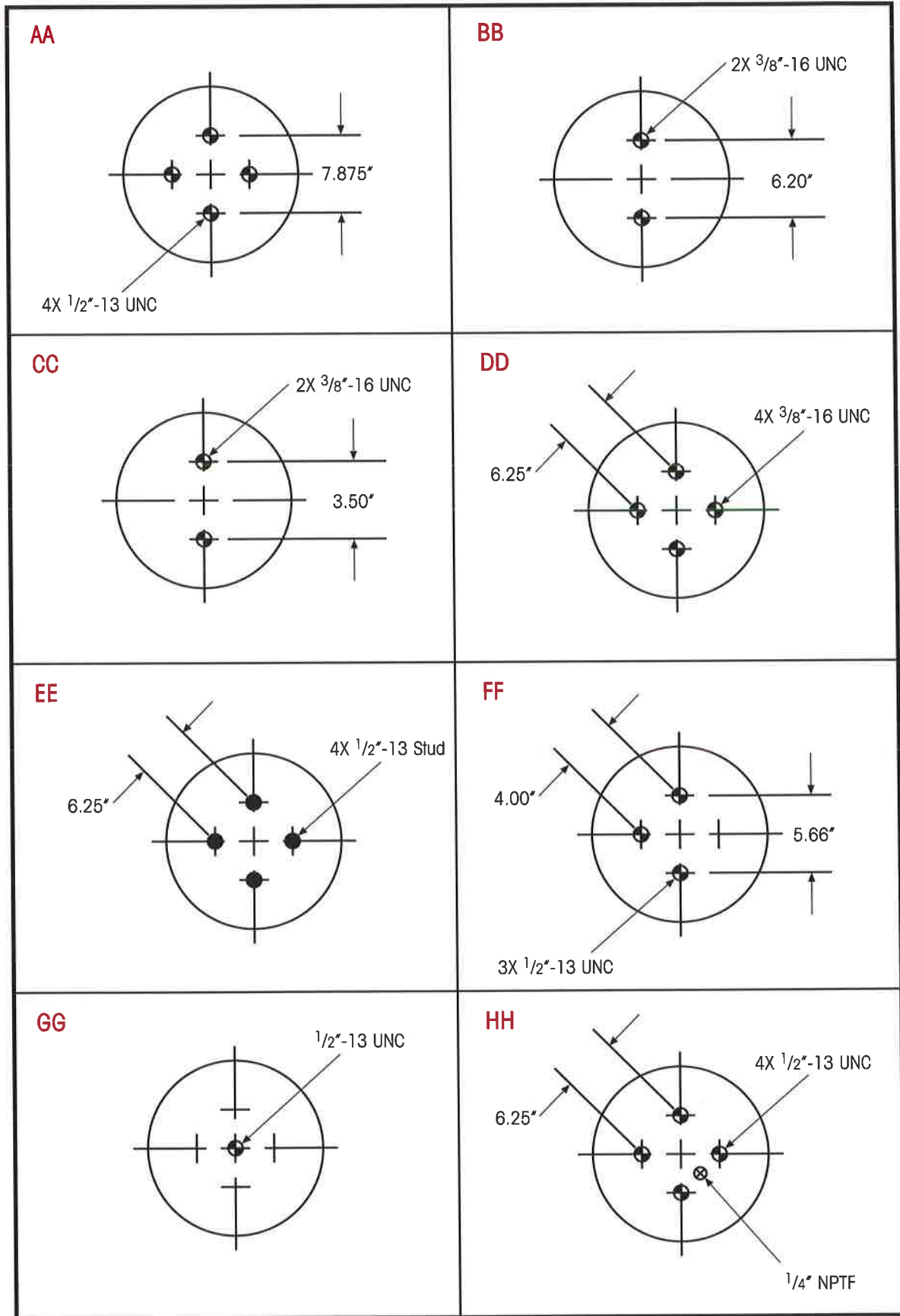




TOP BEAD PLATE BOLT PATTERNS cont.

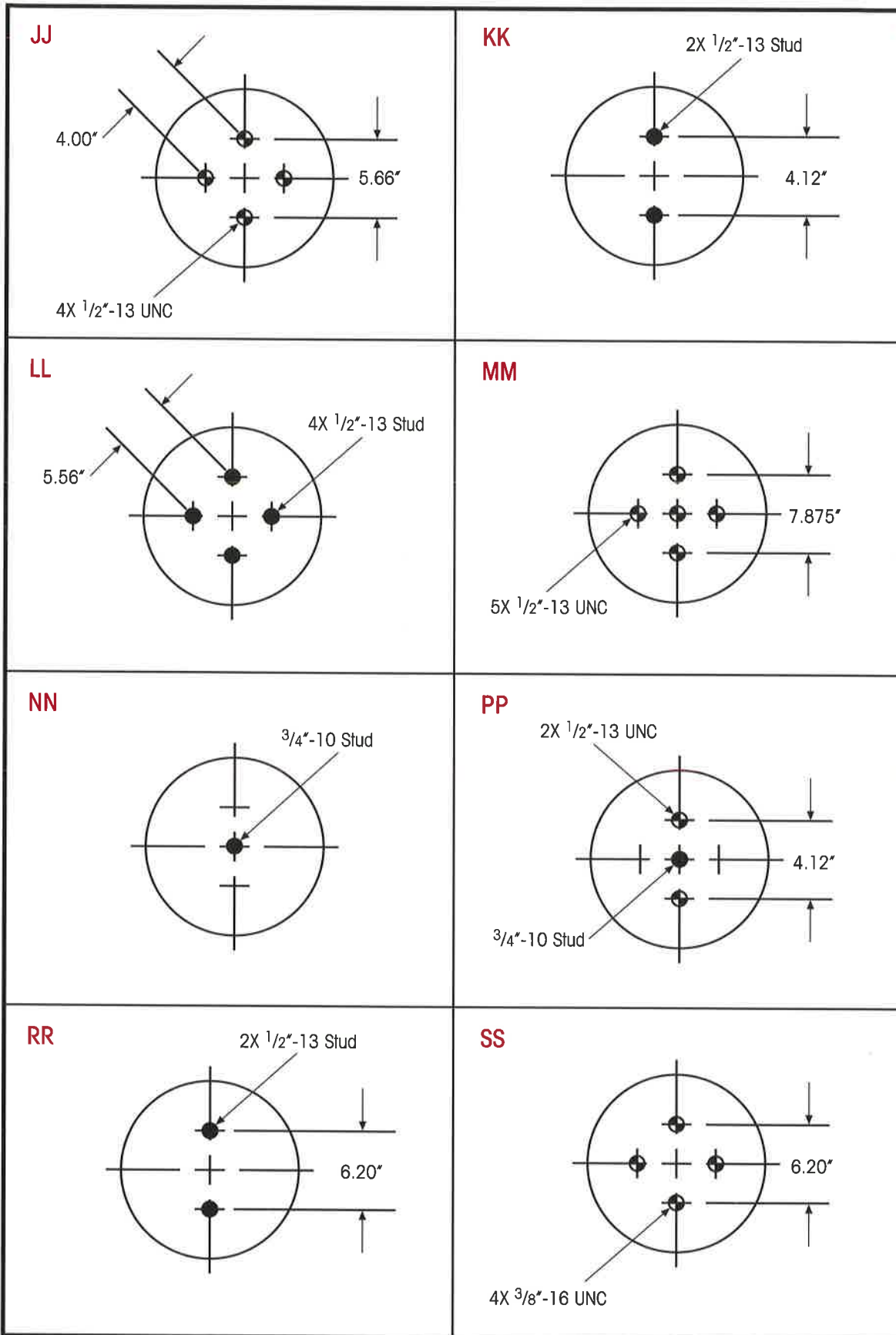


BOTTOM BEAD PLATE/PISTON BOLT PATTERNS

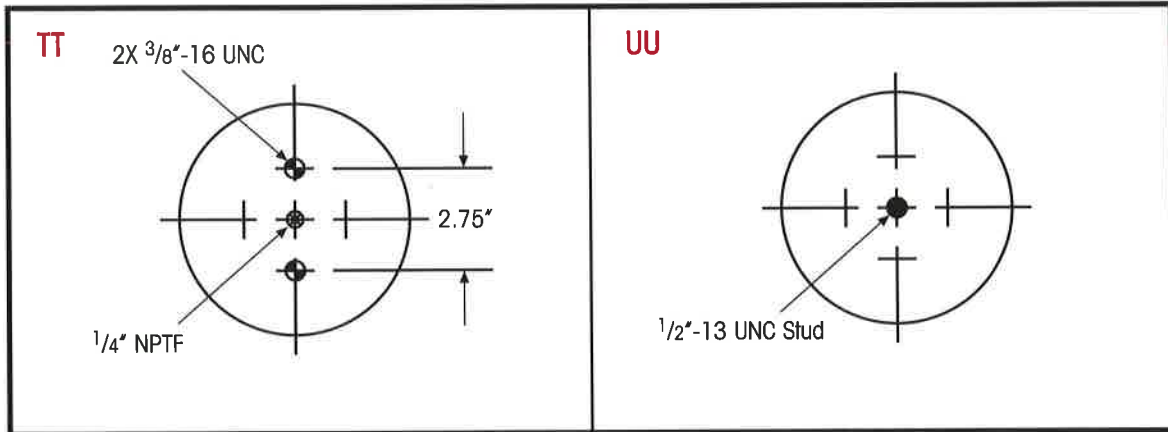




BOTTOM BEAD PLATE/PISTON BOLT PATTERNS cont.



BOTTOM BEAD PLATE/PISTON BOLT PATTERNS cont.



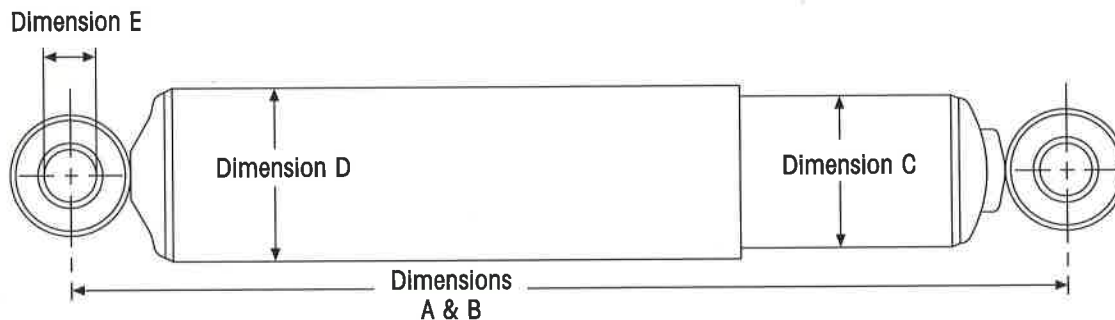


SECTION CONTENTS

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SHOCK ABSORBER APPLICATION CHART	33
SHOCK STRAP KIT REFERENCE CHART	34

SHOCK ABSORBER

IDENTIFICATION CHART



HENDRICKSON PART NO. ¹	COLLAPSED LENGTH (+/- 0.13") (Dim. A)	EXTENDED LENGTH (+/- 0.13") (Dim. B)	STROKE	CYLINDER DIAMETER (Dim. C)	DUST SHIELD DIAMETER (Dim. D)	MOUNTING HOLE DIAMETER (NOM.) (Dim. E)
A-1667	11.46	17.24	5.78	2.19	2.50	0.75
A-2160	13.71	21.74	8.03	2.19	2.50	0.75
A-2212	12.97	20.25	7.28	2.19	2.50	0.75
A-2213	16.21	26.74	10.53	2.19	2.50	0.75
A-2218	14.84	24.00	9.16	2.19	2.50	0.75
A-2240	17.71	29.74	12.03	2.19	2.50	0.75
A-2471	17.21	28.74	11.53	2.19	2.50	0.75
A-4084	15.22	24.75	9.53	2.19	2.50	0.75
A-4890	13.47	20.50	7.03	2.75	3.25	1.00
A-10023	11.38	18.21	6.83	1.81	2.25	0.50
A-10348	17.00	28.00	10.78	2.19	2.50	0.75
A-11931	11.40	17.68	6.28	2.19	2.50	0.50
A-14583	11.60	17.51	5.91	2.19	2.50	0.50
A-20001	11.59	16.97	5.38	2.02	2.38	0.75
A-20002	11.60	17.51	5.91	2.19	2.50	0.75
A-20126	11.71	17.49	5.78	2.75	3.25	0.75
A-20345	13.83	21.86	8.03	2.75	3.25	0.75
A-20889	11.71	17.49	5.78	2.75	3.25	0.75
A-21292	9.47	13.25	3.78	2.19	2.50	0.75
B-21553	11.71	17.49	5.78	2.75	3.25	0.75
B-21699	11.74	17.37	5.63	2.75	3.25	0.75
B-21936	10.72	16.00	5.28	2.19	2.50	0.75
B-21947	9.47	13.25	3.78	2.19	2.50	0.75
B-21994	10.71	15.87	5.16	2.75	3.25	0.75
B-21995	9.46	13.24	3.78	2.75	3.25	0.75
B-22345	11.60	16.76	5.16	2.19	2.50	0.75
B-22715	11.47	17.00	5.53	2.19	2.50	0.75
B-22862	9.97	14.50	4.53	2.19	2.50	0.75
B-23361	11.60	16.76	5.16	2.19	2.50	0.75
B-23548	8.85	12.01	3.16	2.19	2.50	0.75
B-23566	11.60	17.51	5.91	2.19	2.50	0.75
B-23649	10.72	16.00	5.28	2.19	2.50	0.75
B-23650	9.47	13.25	3.78	2.19	2.50	0.75
B-23651	9.97	14.50	4.53	2.19	2.50	0.75
B-23743	10.71	15.87	5.16	2.75	3.25	0.75
B-23744	9.46	13.24	3.78	2.75	3.25	0.75
B-24023	11.71	17.49	5.78	2.75	3.25	0.75
B-24088	11.50	16.99	5.49	2.00	2.37	0.75
B-24125	11.71	17.49	5.78	2.75	3.25	0.75

¹ Hendrickson Part No. may also begin with an "S" rather than an "A" or "B". An "S" represents a service part.



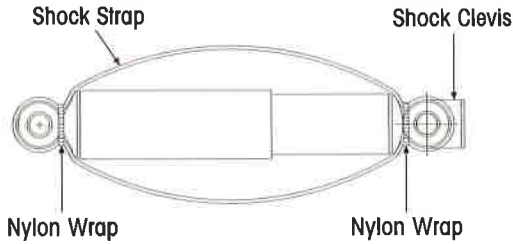
SHOCK ABSORBER APPLICATION CHART

HENDRICKSON PART NO. ¹	MODEL(S) WHERE USED ²	NOTE
A-1667	AB, T-2, T-6, TDC-031, TDC-041	
A-2160	T, some HT230, HTQUAD, HT250U, HT300T,	
A-2212	T, HT190U-6.75, most HT250T, HT250U MaxiLift™	
A-2213	T	
A-2218	T	
A-2240	T	
A-2471	T	
A-4084	T	
A-4890	T	
A-10023	LD-375, LT-014	Replaced by A-14583
A-10348	T30 with 5" Ride Height	
A-11931	LD-365, LD-384	Replaced by A-14583
A-14583	LD-365	
A-20001	Most HT190T, HS190T, HC190T, HC190U, HF190T, HT190U, HS190U, HTDOLLY (20K)	
A-20002	Most HT230, HS230, HC230, HF230, HT250U, HS250U, HTDOLLY (23K)	Replaced by B-23566 for AA230T/ AA250T, HKA200, HIS and HIK models
A-20126	Most HT300T, HT300U, HS300T, HT250U, HT230 Extended Service, HTDOLLY (30K)	Replaced by B-24125 for AA230T/ AA250T, HKA200/HKA250 models
A-20345	HT300T	
A-20889	HT230, HC230, HT300T	Urethane bushings
A-21292	HK190T, HK230	
B-21553	HT250U Extended Service with High Damping, HT250U "Y" Beam	Replaced by B-24023 for AA230T/ AA250T models
B-21699	Some HT300U	
B-21936		Replaced by B-23649
B-21947		Replaced by B-23650
B-21994		Replaced by B-23743
B-21995		Replaced by B-23744
B-22345		Replaced by B-23361
B-22715	HKA180 High Damping	
B-22862		Replaced by B-23651
B-23361	AA230T/AA250T Limited Rebound	
B-23548	HT250US Std. Travel for 4" Ride Height	
B-23566	AA230T/AA250T, HKA200 Std. Duty	
B-23649	HT250US Std. Travel 7-1/2" to 14" Ride Heights, Ltd. Travel 6-1/2" to 12" Ride Heights	
B-23650	HT250US Std. Travel 5-1/2" and 6-1/2" Ride Heights	
B-23651	HT250US Extended Rebound 6-1/2" Ride Height, Tapered Hanger 6-1/2" Ride Height, Tilted Hanger 7-1/2" Ride Height	
B-23743	HT250US Extended Service with High Damping for Std. Travel 7-1/2" to 14" Ride Heights and Ltd. Travel 6-1/2" to 12" Ride Heights	
B-23744	HT250US Extended Service with High Damping for Std. Travel 5-1/2" and 6-1/2" Ride Heights	
B-24023	AA230T/AA250T Extended Service with High Damping	
B-24088	HKA180 Std. Duty	
B-24125	AA230T/AA250T and HKA200/HKA250 Extended Service	

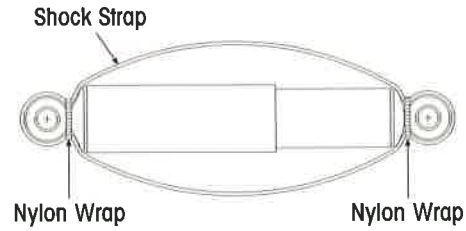
¹ Hendrickson Part No. may also begin with an "S" rather than an "A" or "B". An "S" represents a service part.

² Shock listed may not be the only shock available for specified model.

SHOCK STRAP KIT REFERENCE CHART



C-23086 SHOCK STRAP KITS¹

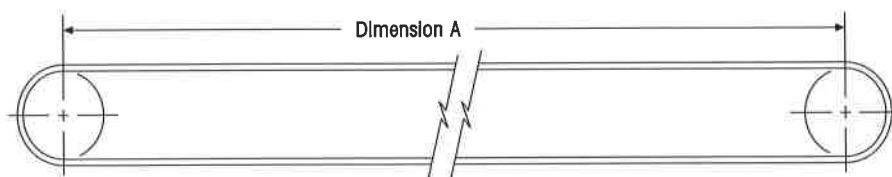


C-14587 SHOCK STRAP KITS

SHOCK ABSORBER PART NO. ²	USE SHOCK STRAP KIT PART NO.	MODEL(S) WHERE USED	ADJUSTED LENGTH (Dim. A)
A-1667	C-14587-1	HT250U, T	15- ¹ / ₄ "
A-2160	C-14587-2	HT230, HTQUAD, HT250U, HT300, T	19- ¹ / ₄ "
A-2240	C-14587	T	26- ³ / ₈ "
A-2212	C-14587-3	HT190U, HT250T, HC250U, HT250U MaxiLift™, T	18- ¹ / ₄ "
A-2213	C-14587-4	T	23- ³ / ₄ "
A-2218	C-14587-5	HT, T	21- ¹ / ₄ "
A-2471	C-14587-7	T	25- ¹ / ₄ "
A-4084	C-14587-6	T	22- ¹ / ₄ "
A-20001	C-14587-1	HT190, HS190T, HC190T, HT190U, HS190U, HTDOLLY	15- ¹ / ₄ "
	C-23086-1	HKA180	15- ¹ / ₄ "
A-20002	C-14587-1	HT230, HS230, HF230, HT250U, HS250U	15- ¹ / ₄ "
	C-23086-1	AA230T/AA250T, HKA200, HIS, HIK	15- ¹ / ₄ "
A-20126	C-14587-8	HT230, HT250U, HT300T, HT300U, HS300T	19- ¹ / ₄ "
	C-23086-2	AA230T/AA250T, HKA200/HKA250	15- ³ / ₄ "
A-20889	C-14587-8	HT230, HT300, HC230	15- ³ / ₄ "
	C-23086-2	AA250T	15- ³ / ₄ "
A-21292	C-14587-9	HT190U, HK230, HK190T	11- ⁷ / ₈ "
B-21553	C-14587-8	HT250U	15- ³ / ₄ "
	C-23086-2	AA230T/AA250T	15- ³ / ₄ "
B-21936	C-23086-5	HT250US	14- ¹ / ₄ "
B-21947	C-23086-3	HT250US, HK200U	11- ⁷ / ₈ "
B-21994	C-23086-5	HT250US	14- ¹ / ₄ "
B-21995	C-23086-3	HT250US	11- ⁷ / ₈ "
B-22862	C-23086-4	HT250US	12- ⁷ / ₈ "
B-23566	C-23086-1	AA230T/AA250T, HKA200/HKA250	15- ¹ / ₄ "
B-23649	C-23086-5	HT250US	14- ¹ / ₄ "
B-23650	C-23086-3	HT250US	11- ⁷ / ₈ "
B-23651	C-23086-4	HT250US	12- ⁷ / ₈ "
B-23743	C-23086-5	HT250US	14- ¹ / ₄ "
B-23744	C-23086-3	HT250US	11- ⁷ / ₈ "
B-24023	C-23086-2	AA230T/AA250T	15- ³ / ₄ "
B-24088	C-23086-1	HKA180	15- ¹ / ₄ "
B-24125	C-23086-2	AA230T/AA250T, HKA200	15- ³ / ₄ "

¹ C-23086 Shock Strap Kits contain Shock Clevis to attach to lower shock mount for shock strap retention.

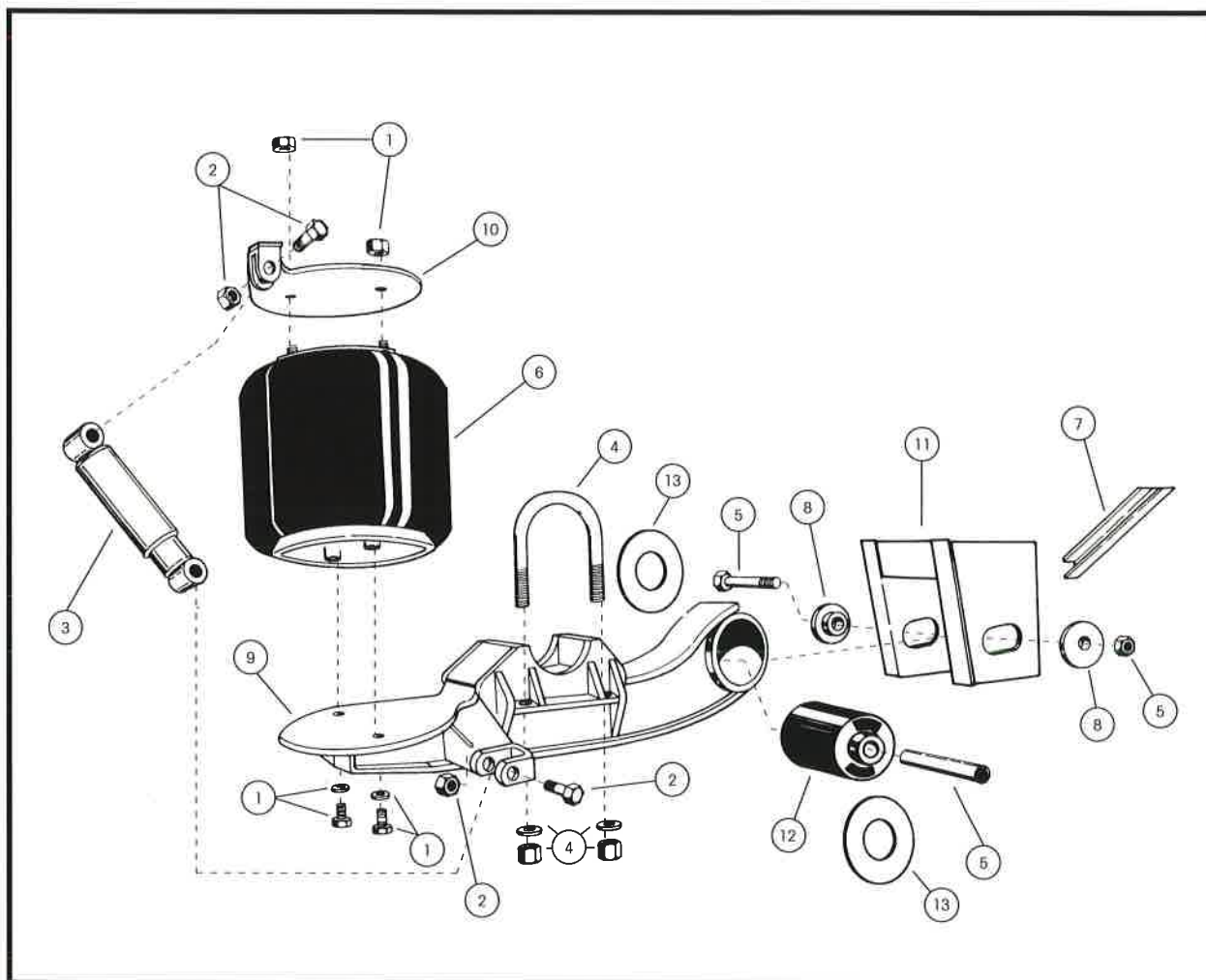
² Hendrickson Part No. may also begin with an "S" rather than an "A" or "B". An "S" represents a service part.





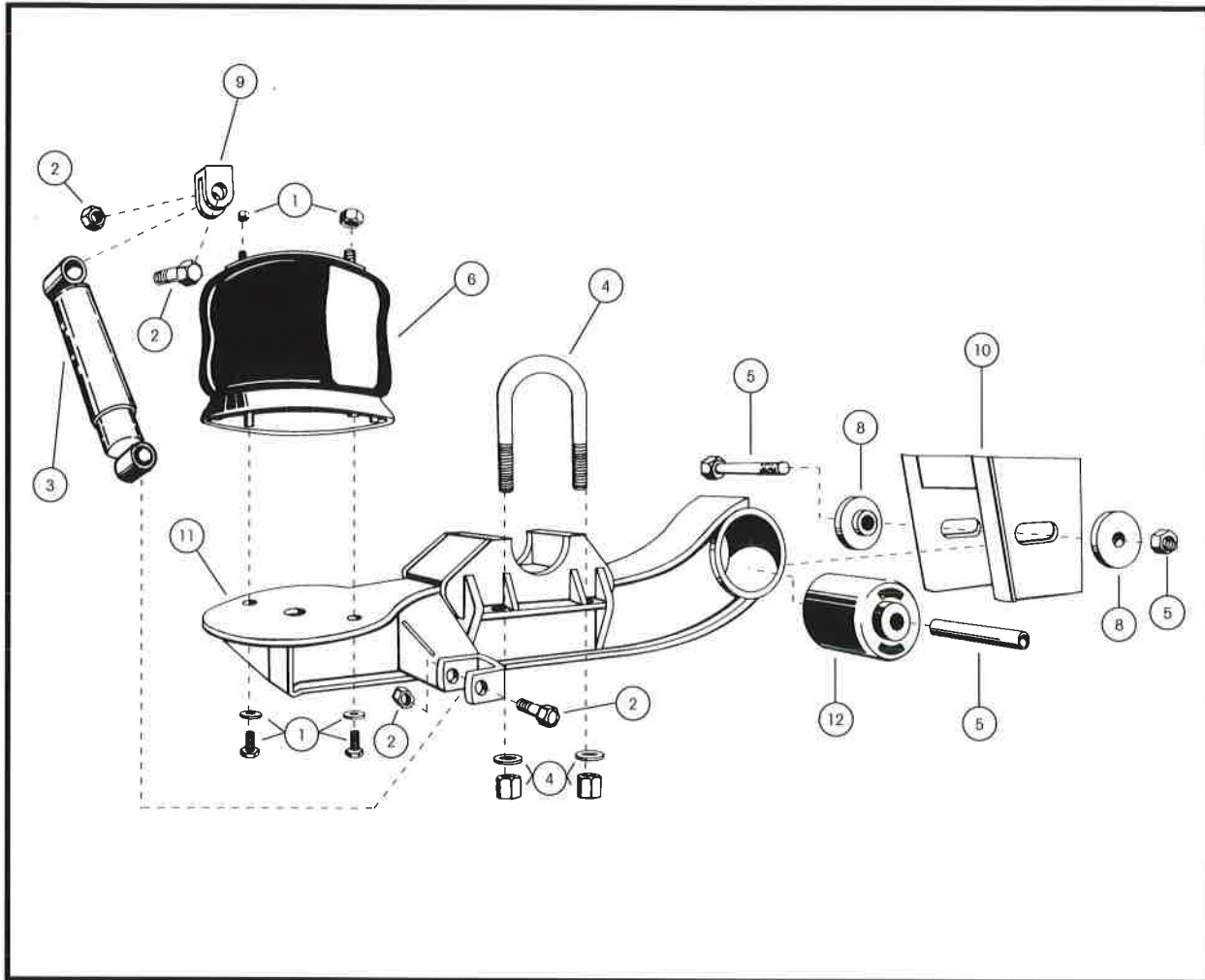
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MODEL T-4-392 (UNDERSLUNG STYLE)

ITEM	DESCRIPTION	PART NO.	QTY
1	AIR SPRING BOLT KIT	S-1981/2	2
2	SHOCK BOLT KIT	S-2157/2	2
3	SHOCK ABSORBER	S-2160	2
4	U-BOLT KIT (Round)	S-1135	1
5	PIVOT BOLT KIT	S-3646	2
6	AIR SPRING	S-2827	2
7	FRAME BRACKET BRACE	A-3185-1	2
8	ALIGNMENT COLLAR	S-2770	4
9	BEAM ASSEMBLY		
	Roadside	B-9909-1	1
	Curbside	B-9909-2	1
10	AIR SPRING/SHOCK MOUNT		
	Roadside	B-8797-1	1
	Curbside	B-8797-2	1
11	FRAME BRACKET		
	Roadside	C-3176-1	1
	Curbside	C-3176-2	1
12	TRI-FUNCTIONAL® II BUSHING KIT ¹	A-6914	2
13	BUSHING WEAR PAD	S-11613	4

¹ The Tri-Functional® II Bushing Kit includes Item #5 (Pivot Bolt Kit) and Item #13 (Bushing Wear Pad).
Bushing Tool, S-21307, is required to correctly re-bush the suspension.

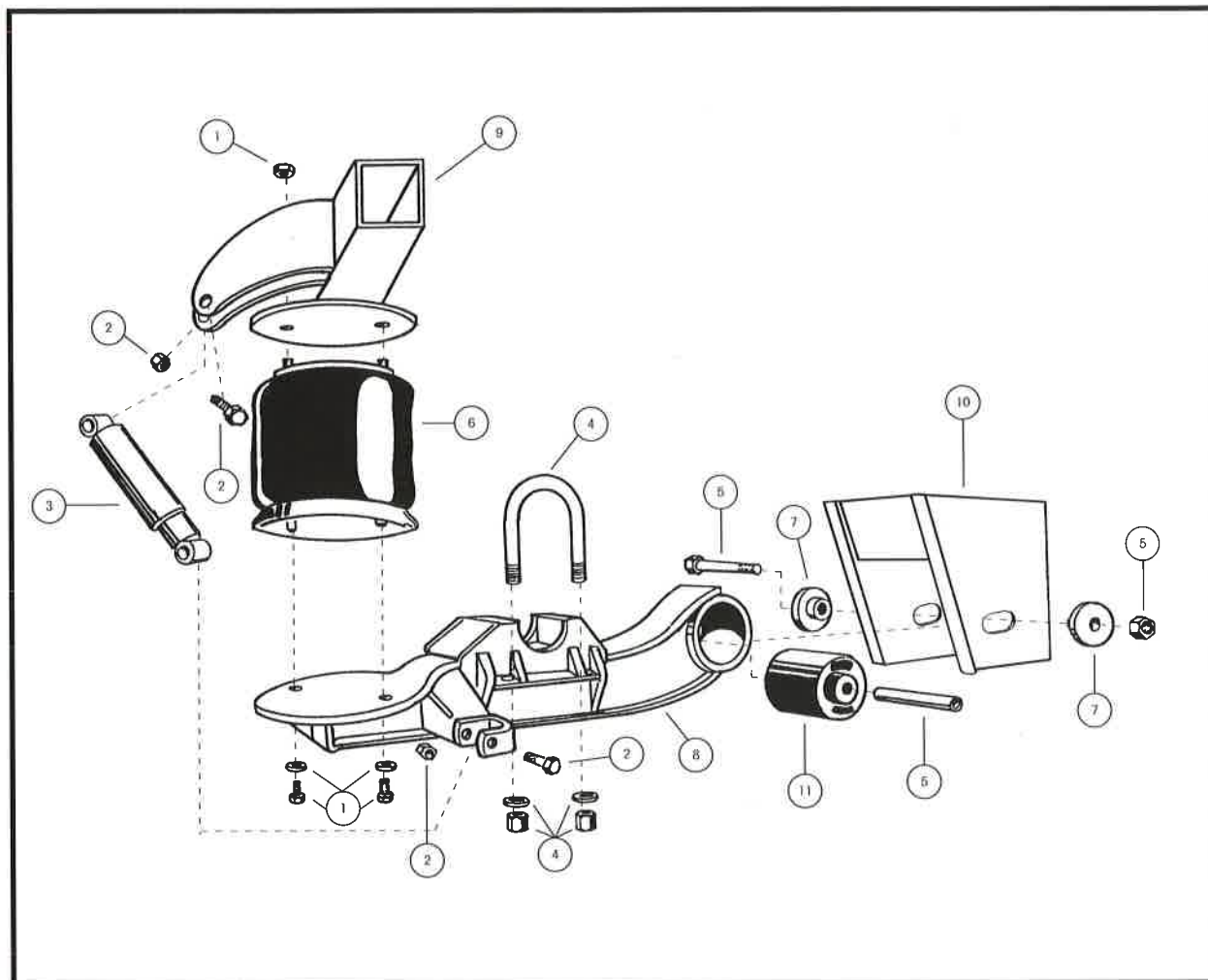
**MODEL T-6-071 (UNDERSLUNG STYLE)**

ITEM	DESCRIPTION	PART NO.	QTY
1	AIR SPRING BOLT KIT	S-1981/2	2
2	SHOCK BOLT KIT	S-2157/2	2
3	SHOCK ABSORBER	S-2212	2
4	U-BOLT KIT (Round)	S-3650/4	4
5	PIVOT BOLT KIT	S-3646	2
6	AIR SPRING	S-1245	2
7	FRAME BRACKET BRACE (Not Shown)	B-2347-1	2
8	ALIGNMENT COLLAR	S-2770	4
9	UPPER SHOCK CLEVIS	S-2592	2
10	FRAME BRACKET		
	Roadside	C-2887-1	1
	Curbside	C-2887-2	1
11	BEAM ASSEMBLY		
	Roadside	C-3663-1	1
	Curbside	C-3663-2	1
12	TRI-FUNCTIONAL® II BUSHING KIT ¹	A-6914	2

¹ The Tri-Functional® II Bushing Kit includes Item #5 (Pivot Bolt Kit).
Bushings Tool, S-21307, is required to correctly re-bush the suspension.

PARTS LIST

MODEL T-6-295 (UNDERSLUNG STYLE)

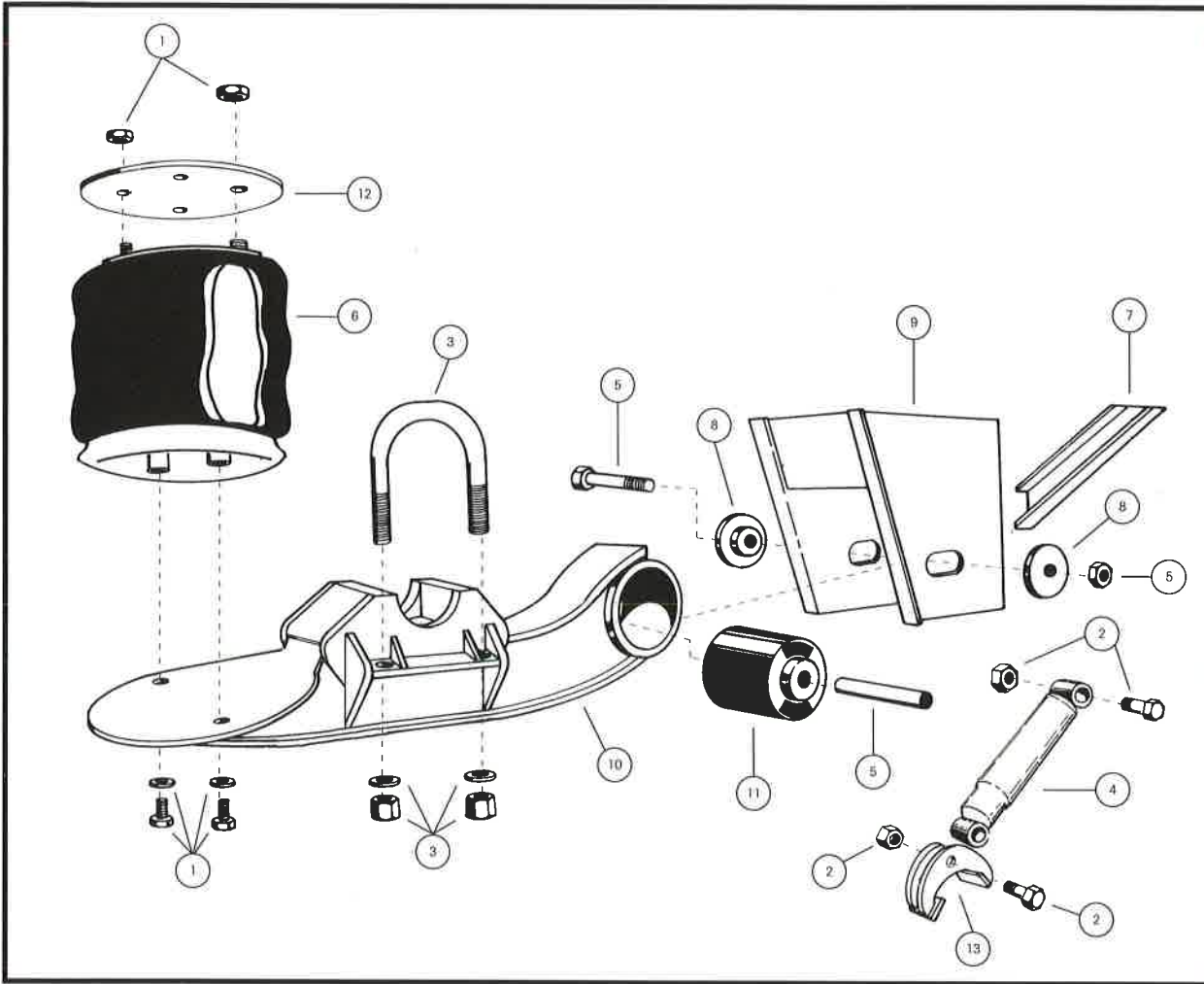


ITEM	DESCRIPTION	PART NO.	QTY
1	AIR SPRING BOLT KIT	A-2348	1
2	SHOCK BOLT KIT	S-2157/2	2
3	SHOCK ABSORBER	S-1667	2
4	U-BOLT KIT (Round)	S-3650/4	4
5	PIVOT BOLT KIT	S-3646	2
6	AIR SPRING	S-2064	2
7	ALIGNMENT COLLAR	S-2770	4
8	BEAM ASSEMBLY		
	Roadside	B-5208-1	1
	Curbside	B-5208-2	1
9	CROSSTUBE ASSEMBLY	C-7797	2
10	FRAME BRACKET		
	Roadside	C-2309-1	1
	Curbside	C-2309-2	1
11	TRI-FUNCTIONAL® II BUSHING KIT ¹	A-6914	2
12	FRAME BRACKET BRACE (Not Shown)	B-2347-1	2

¹ The Tri-Functional® II Bushing Kit includes Item #5 (Pivot Bolt Kit).
Bushings Tool, S-21307, is required to correctly re-bush the suspension.



MODEL T-9-175 (UNDERSLUNG STYLE)

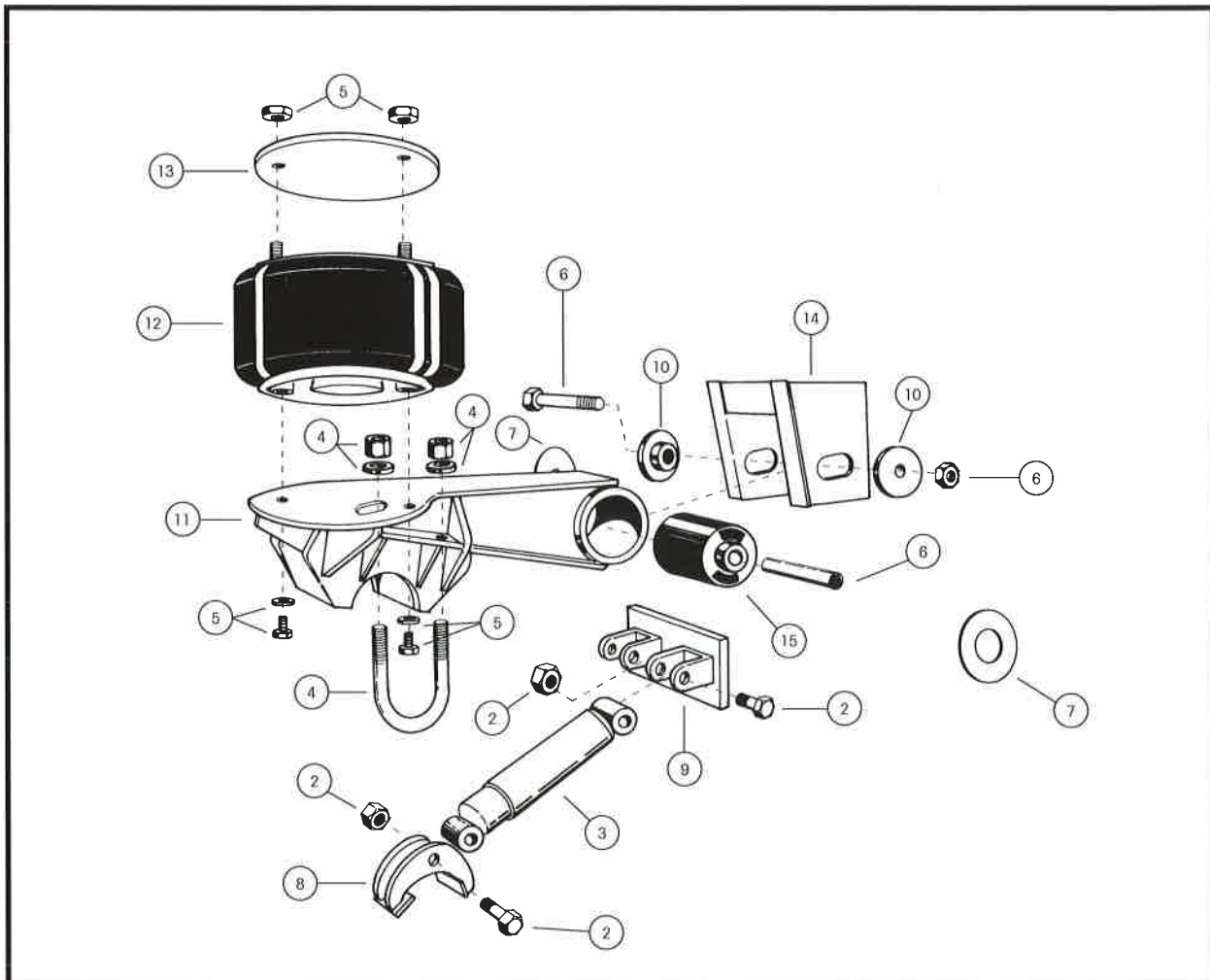


ITEM	DESCRIPTION	PART NO.	QTY
1	AIR SPRING BOLT KIT	A-2378	1
2	SHOCK BOLT KIT	S-2157/2	2
3	U-BOLT KIT (Round)	A-2237	1
4	SHOCK ABSORBER	S-2160	2
5	PIVOT BOLT KIT	S-3646	2
6	AIR SPRING	S-2063	2
7	FRAME BRACKET BRACE	B-2347-2	2
8	ALIGNMENT COLLAR	S-2770	4
9	FRAME BRACKET		
	Roadside	C-2870-1	1
	Curbside	C-2870-2	1
10	BEAM ASSEMBLY		
	Roadside	C-4224-1	1
	Curbside	C-4224-2	1
11	TRI-FUNCTIONAL® II BUSHING KIT ¹	A-6914	2
12	AIR SPRING PLATE	C-11134	2
13	SHOCK BRACKET ASSEMBLY (Lower)	S-2723	2
14	UPPER SHOCK PLATE (Not Shown)	B-5090	4

¹ The Tri-Functional® II Bushing Kit includes Item #5 (Pivot Bolt Kit).
Bushings Tool, S-21307, is required to correctly re-bush the suspension.

PARTS LIST

MODEL T-15-172 (TOP MOUNT STYLE)

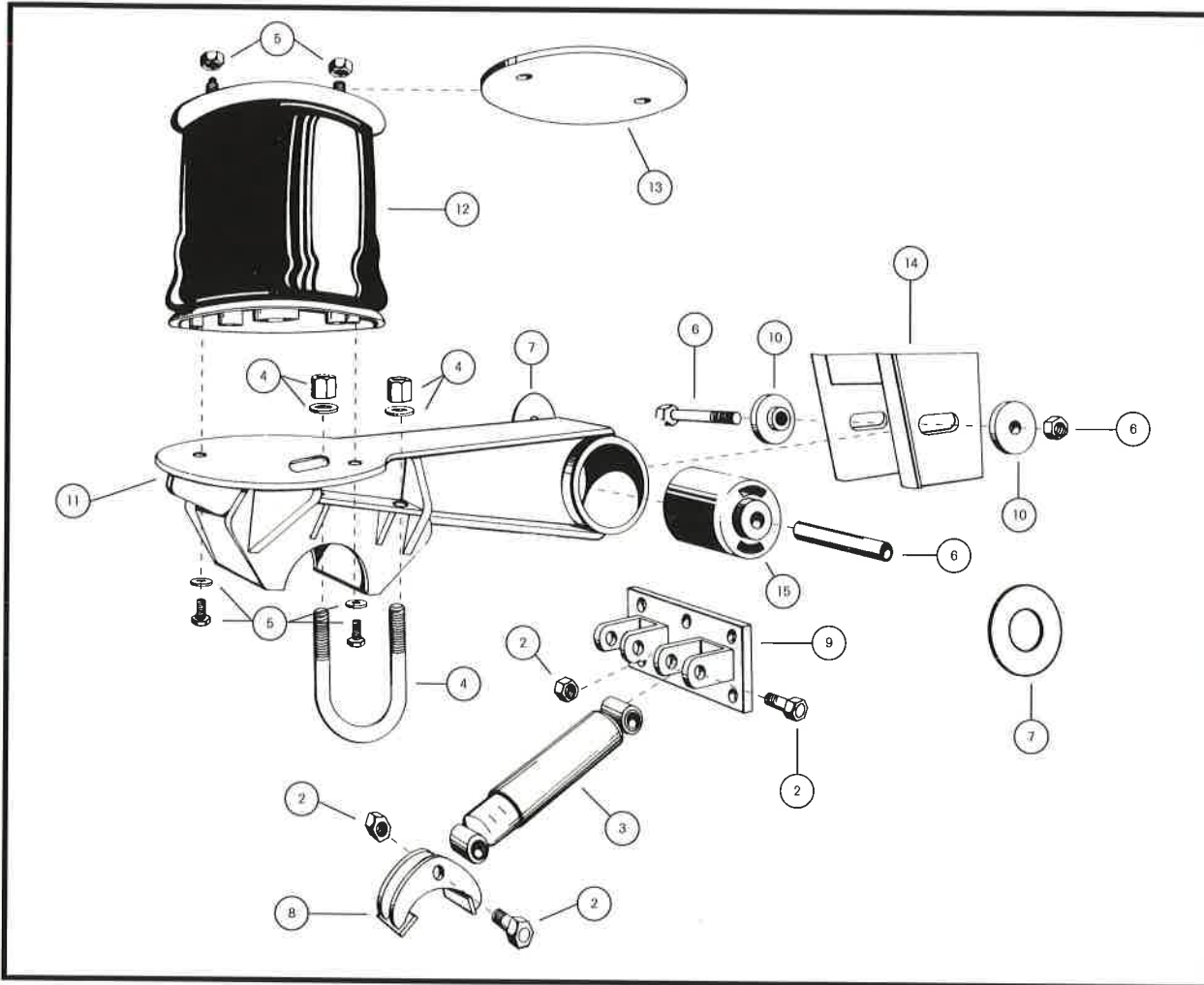


ITEM	DESCRIPTION	PART NO.	QTY
1	C-CHANNEL 3" X 34" (Not Shown)	A-1631-5	1
2	SHOCK BOLT KIT	S-2157/2	2
3	SHOCK ABSORBER	S-2218	2
4	U-BOLT KIT (Round)	S-3650/4	4
5	AIR SPRING BOLT KIT	S-4903/2	2
6	PIVOT BOLT KIT	S-3646	2
7	BUSHING WEAR PAD	S-11613	4
8	SHOCK BRACKET ASSEMBLY (Lower)	S-2723	2
9	SHOCK BRACKET ASSEMBLY (Upper)	S-2725	1
10	ALIGNMENT COLLAR	S-2770	4
11	BEAM ASSEMBLY		
	Roadside	B-3647-1	1
	Curbside	B-3647-2	1
12	AIR SPRING	S-4771	2
13	AIR SPRING PLATE	C-11134	2
14	FRAME BRACKET		
	Roadside	C-2887-1	1
	Curbside	C-2887-2	1
15	TRI-FUNCTIONAL® II BUSHING KIT ¹	A-6914	2

¹ The Tri-Functional® II Bushing Kit includes Item #6 (Pivot Bolt Kit) and Item #7 (Bushing Wear Pad).
Bushings Tool, S-21307, is required to correctly re-bush the suspension.



MODEL T-17-174 (TOP MOUNT STYLE)



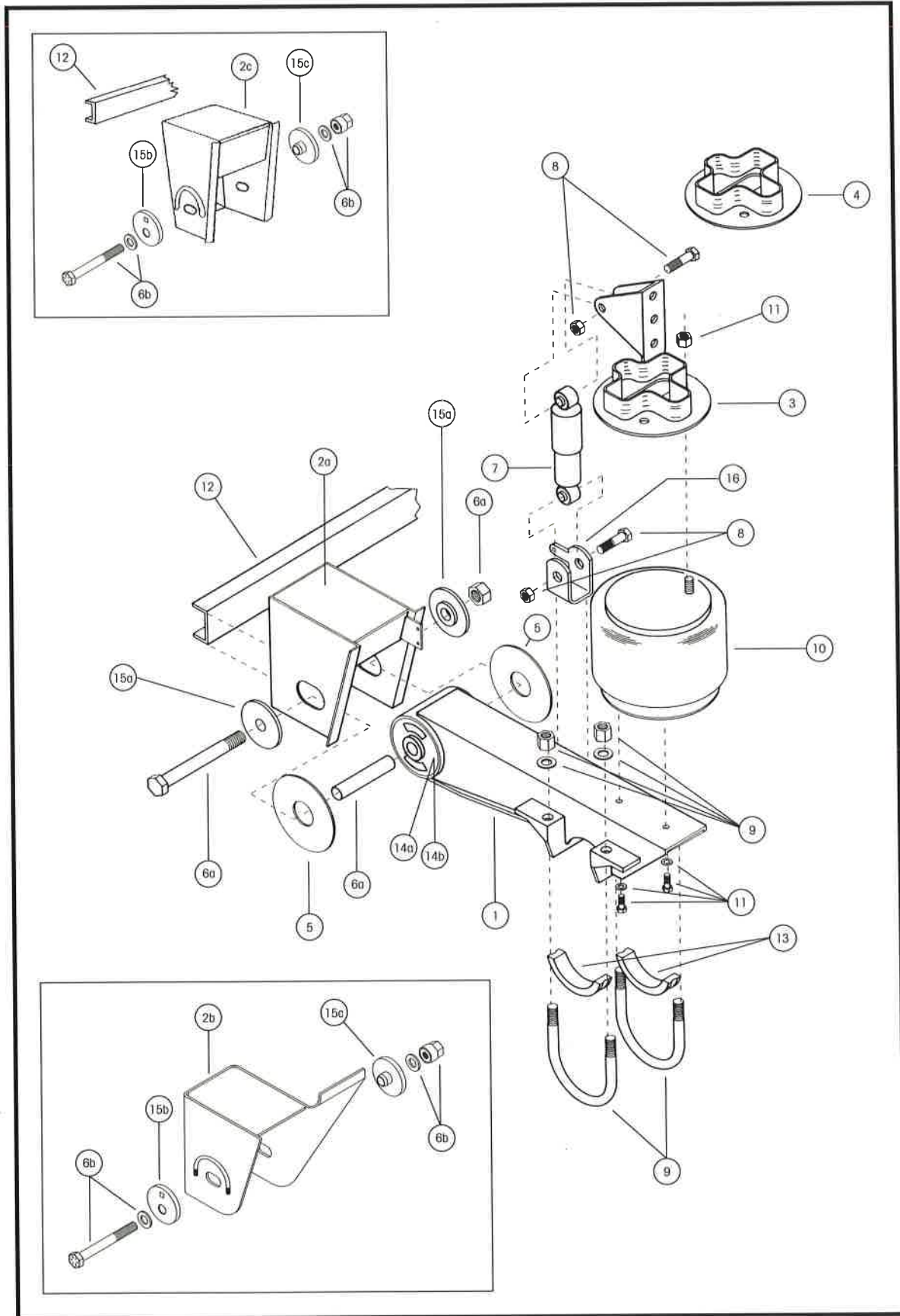
PRIMARY SUSPENSIONS

ITEM	DESCRIPTION	PART NO.	QTY
1	C-CHANNEL 3" X 34" (Not Shown)	A-1631-5	1
2	SHOCK BOLT KIT	S-2157/2	2
3	SHOCK ABSORBER	S-2218	2
4	U-BOLT KIT (Round)	S-3650/4	4
5	AIR SPRING BOLT KIT	S-4903/2	2
6	PIVOT BOLT KIT	S-3646	2
7	BUSHING WEAR PAD	S-11613	4
8	SHOCK BRACKET (Lower)	S-2723	2
9	SHOCK BRACKET ASSEMBLY (Upper)	S-2725	1
10	ALIGNMENT COLLAR	S-2770	4
11	BEAM ASSEMBLY		
	Roadside	B-3647-1	1
	Curbside	B-3647-2	1
12	AIR SPRING	S-4771	2
13	AIR SPRING PLATE	C-11134	2
14	FRAME BRACKET		
	Roadside	C-2309-1	1
	Curbside	C-2309-2	1
15	TRI-FUNCTIONAL® II BUSHING KIT ¹	A-6914	2

¹ The Tri-Functional® II Bushing Kit includes Item #6 (Pivot Bolt Kit) and Item #7 (Bushing Wear Pad). Bushing Tool, S-21307, is required to correctly re-bush the suspension.

PARTS LIST

MODEL HT190 (TOP MOUNT STYLE)



PRIMARY SUSPENSIONS



PARTS LIST

MODEL HT190 (TOP MOUNT STYLE)

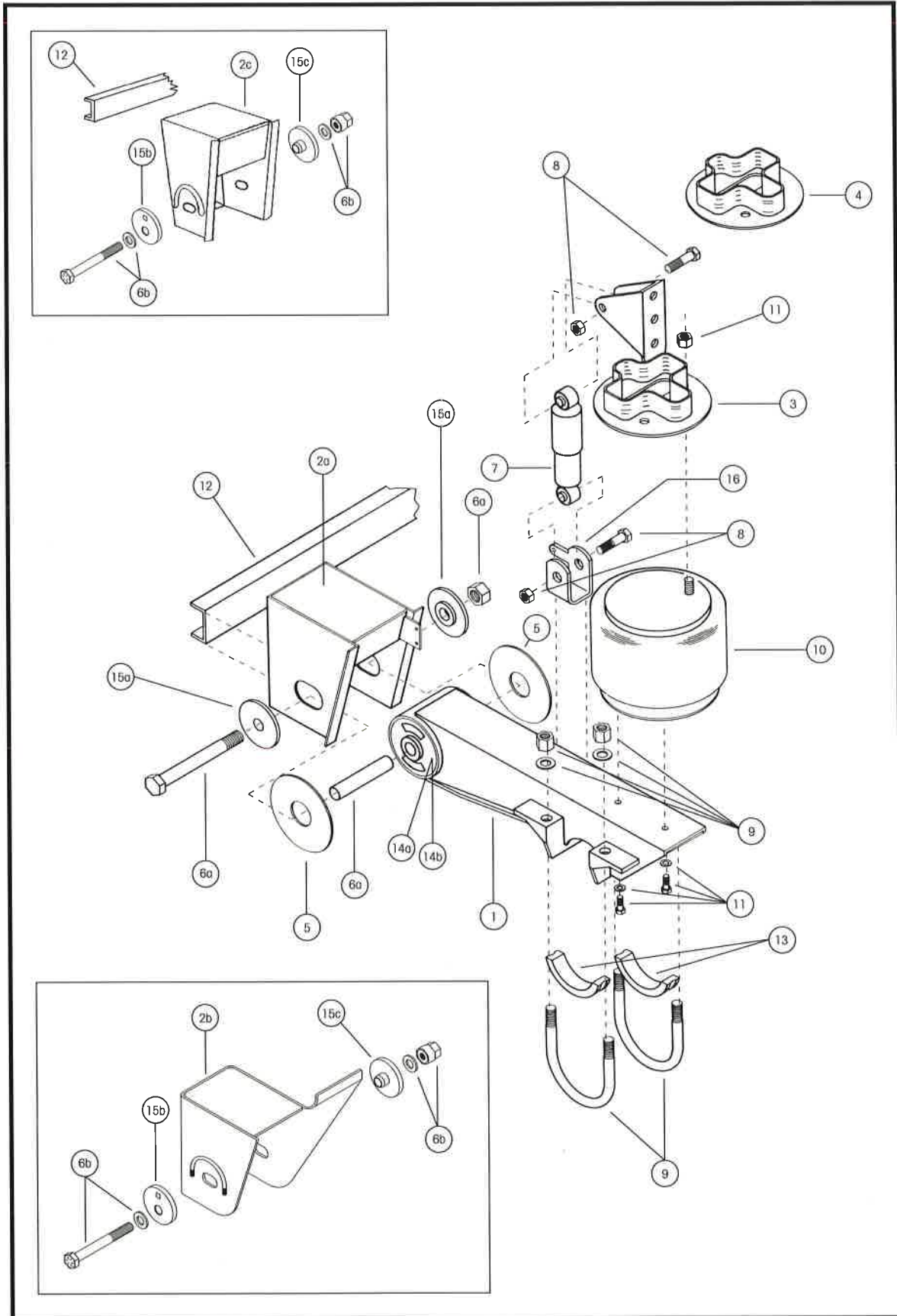
ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT190 ?)			
1	BEAM ASSEMBLY						
	Roadside	S-20000-1	1	ALL			
	Curbside	S-20000-2	1	ALL			
2	FRAME BRACKET						
2a	Wingless, Welded Alignment, Roadside	C-20064-1	1	T-14-001	T-14-005	T-15-001	
				T-15-002	T-15-005		
		C-15027-1 ¹	1	-14-003	-14-002		
		C-15028-1 ¹	1	-16-002			
		C-20065-1	1	T-16-001	T-16-002	T-16-005	
				T-17-001	T-17-005		
		Wingless, Welded Alignment, Curbside	C-20064-2	1	T-14-001	T-14-005	T-15-001
				T-15-002	T-15-005		
			C-15027-2 ¹	1	-14-003	-14-002	
			C-15028-2 ¹	1	-16-002		
		C-20065-2	1	T-16-001	T-16-002	T-16-005	
				T-17-001	T-17-005		
2b	Winged, QUIK-ALIGN®, Roadside	D-21179-1	1	TA14-001	TA14-005	TA15-005	
		D-21165-1	1	TA16-005	TA17-005		
	Winged, QUIK-ALIGN®, Curbside	D-21179-2	1	TA14-001	TA14-005	TA15-005	
		D-21165-2	1	TA16-005	TA17-005		
2c	Wingless, QUIK-ALIGN®, Roadside	D-21590-1	1	TB14-001	TB14-005	TB15-001	
				TB15-005			
		D-21592-1	1	TB16-001	TB16-005	TB17-005	
		Wingless, QUIK-ALIGN®, Curbside	D-21590-2	1	TB14-001	TB14-005	TB15-001
				TB15-005			
			D-21592-2	1	TB16-001	TB16-005	TB17-005
3	AIR SPRING/SHOCK MOUNT²						
	Roadside	C-20011-1	1	-14-003	T-14-005	TA14-005	
				TB14-005			
		C-20012-1	1	T-15-005	TA15-005	TB15-005	
		C-20013-1	1	T-16-005	TA16-005	TB16-005	
		C-20014-1	1	T-17-005	TA17-005	TB17-005	
	Curbside	C-20011-2	1	-14-003	T-14-005	TA14-005	
				TB14-005			
		C-20012-2	1	T-15-005	TA15-005	TB15-005	
		C-20013-2	1	T-16-005	TA16-005	TB16-005	
		C-20014-2	1	T-17-005	TA17-005	TB17-005	
4	AIR SPRING SPACER ASSEMBLY	C-20016-1	2	T-15-001	TB15-001	T-15-002	
		C-20016-2	2	T-16-001	TB16-001	T-16-002	
				-16-002			
		C-20016-3	2	T-17-001			
5	BUSHING WEAR PAD	S-11613	4	ALL			
6	PIVOT BOLT KIT						
6a	Welded Alignment	S-3646	2	T-14-001	-14-002	-14-003	
				T-14-005			
				T-15-001	T-15-002	T-15-005	
				T-16-001	T-16-002	-16-002	
				T-16-005	T-17-001	T-17-005	
6b	QUIK-ALIGN®	S-21052	2	TA14-001	TB14-001	TA14-005	
				TB14-005	TB15-001	TA15-005	
				TB15-005	TB16-001	TA16-005	
				TB16-005	TA17-005	TB17-005	

PRIMARY SUSPENSIONS

¹ This frame bracket is 1/4" material instead of the 3/16" material used previously. This part # also includes correct alignment collars.
² Not used with a slider suspension (components supplied by the slider manufacturer). Some units supplied to slider manufacturer with Item #4 (Air Spring Spacer Assembly) only.

PARTS LIST

MODEL HT190 (TOP MOUNT STYLE) cont.



PRIMARY SUSPENSIONS



MODEL HT190 (TOP MOUNT STYLE) cont.

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT190 ?)				
7	SHOCK ABSORBER	S-20001	2	ALL				
8	SHOCK ABSORBER BOLT KIT	S-20031/2	2	-14-003	T-14-005	TA14-005		
				TB14-005	T-15-005	TA15-005		
				TB15-005	T-16-005	TA16-005		
				TB16-005	T-17-005	TA17-005		
				TB17-005				
				S-20218/2	2	T-14-001	TA14-001	-14-002
				TB14-001	T-15-001	TB15-001		
				T-15-002	T-16-001	TB16-001		
				T-16-002	-16-002	T-17-001		
9	U-BOLT KIT	S-20032/4	4	ALL				
10	AIR SPRING	S-20223	2	T-14-001	TA14-001	TB14-001		
				T-14-005	TA14-005	TB14-005		
				T-15-001	TB15-001	T-15-002		
				T-15-005	TA15-005	TB15-005		
				T-16-001	TB16-001	T-16-002		
				T-16-005	TA16-005	TB16-005		
				T-17-001	T-17-005	TA17-005		
				TB17-005				
				S-20010	2	-14-002	-14-003	-16-002
11	AIR SPRING BOLT KIT	S-20033/2	2	ALL				
12	FRAME BRACKET CHANNEL	A-1631-19	1	-14-002	-14-003	T-14-005		
				TB14-005	T-15-002	T-15-005		
				TB15-005	-16-002	T-16-002		
				T-16-005	TB16-005	T-17-005		
				TB17-005				
13	AXLE SPACER	S-20701	4	ALL				
14	TRI-FUNCTIONAL® II BUSHING KIT ³							
14a	Welded Alignment	A-6914	2	T-14-001	-14-002	-14-003		
				T-14-005	T-15-001	T-15-002		
				T-15-005	T-16-001	T-16-002		
				-16-002	T-16-005	T-17-001		
				T-17-005				
14b	QUIK-ALIGN®	S-21166	2	TA14-001	TB14-001	TA14-005		
				TB14-005	TB15-001	TA15-005		
				TB15-005	TB16-001	TA16-005		
				TB16-005	TA17-005	TB17-005		
15	ALIGNMENT COLLARS							
15a	Welded Alignment	S-20700	4	-14-002	14-003	-16-002		
				S-2770	4	T-14-001	T-14-005	T-15-001
				T-15-002	T-15-005	T-16-001		
				T-16-002	T-16-005	T-17-001		
				T-17-005				
15b	Eccentric, QUIK-ALIGN®	S-20925	2	TA14-001	TB14-001	TA14-005		
				TB14-005	TB15-001	TA15-005		
				TB15-005	TB16-001	TA16-005		
				TB16-005	TA17-005	TB17-005		
15c	Concentric, QUIK-ALIGN®	S-20924	2	TA14-001	TB14-001	TA14-005		
				TB14-005	TB15-001	TA15-005		
				TB15-005	TB16-001	TA16-005		
				TB16-005	TA17-005	TB17-005		
16	LOWER SHOCK CLEVIS ⁴	C-20069	2	ALL				

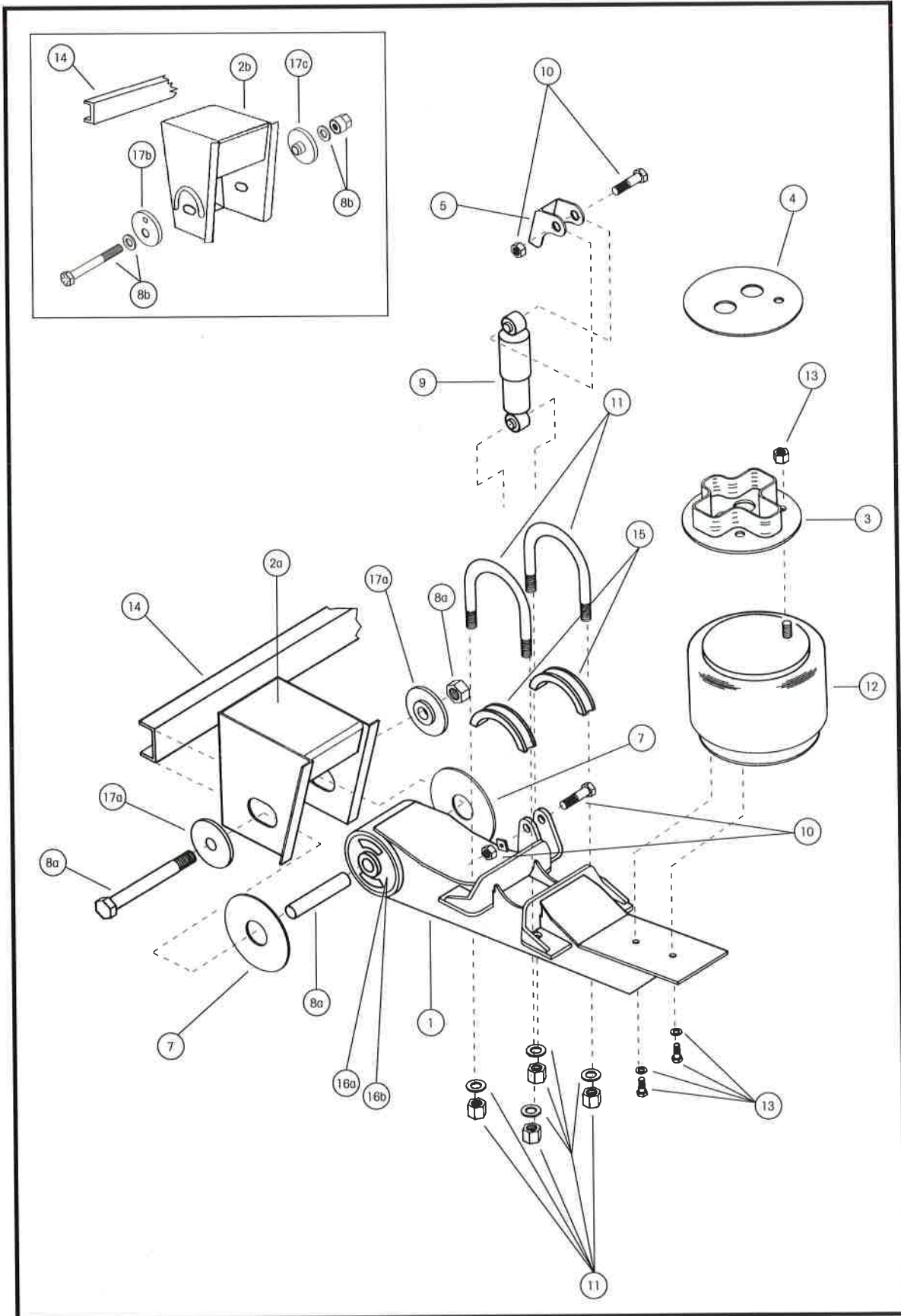
³ The Tri-Functional® II Bushing Kit includes Item #6 (Pivot Bolt Kit) and Item #5 (Bushing Wear Pad). Bushing Tool, S-21307, is required to correctly re-bush the suspension.

⁴ Lower Shock Clevis is included when ordering Item #1 (Beam Assembly).

PRIMARY SUSPENSIONS

PARTS LIST

MODEL HT190U (UNDERSLUNG STYLE)





PARTS LIST

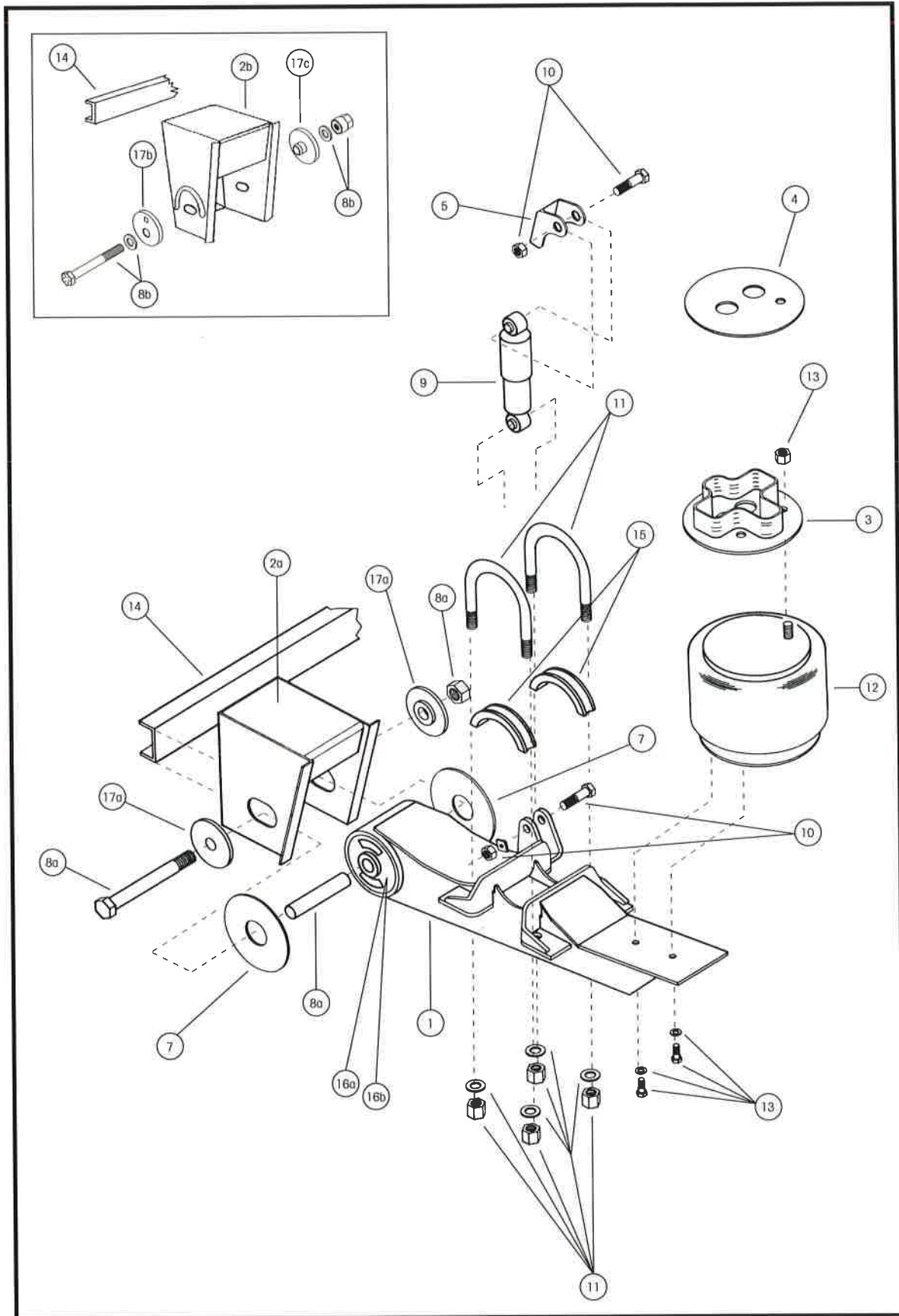
MODEL HT190U (UNDERSLUNG STYLE)

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT190U ?)				
1	BEAM ASSEMBLY	Roadside	D-20200-1	1	-6-020	B6-020	-7-001	
					-7-020	-7-021	-7.5-001	
						-7.5-020	-9-001	B9-001
						-9-020		
			D-20333-1	1	-6.75-001			
	Curbside	D-20200-2	1	-6-020	B6-020	-7-001		
				-7-020	-7-021	-7.5-001		
						-7.5-020	-9-001	B9-001
						-9-020		
			D-20333-2	1	-6.75-001			
2	FRAME BRACKET							
2a	Wingless, Welded Alignment,	Roadside, Weld-on	C-20211	1	-9-001	-9-020		
					C-20216	1	-6-020	-7-001
						-7.5-001	-7.5-020	
			C-20222	1	-6.75-001	-7-021		
	Wingless, Welded Alignment,	Curbside, Weld-on	C-20065-2	1	-9-001	-9-020		
					C-20064-2	1	-6-020	-7-001
						-7.5-001	-7.5-020	
			C-20222	1	-6.75-001	-7-021		
	2b	Wingless, QUIK-ALIGN®, Roadside,	Weld-on	D-22580	1	B6-020		
						D-22601	1	B9-001
	Wingless, QUIK-ALIGN®, Curbside,	Weld-on	D-21590-2	1	B6-020			
					D-21592-2	1	B9-001	
3	AIR SPRING SPACER ASSEMBLY	C-20016-1	2	-7.5-001	-7.5-020			
		C-20016-2	2	-9-001	B9-001	-9-020		
4	AIR SPRING PLATE	B-20035	2	-6-020	B6-020	-7-001		
				-7-020				
5	UPPER SHOCK CLEVIS	C-20113	2	-6-020	B6-020	-7-001		
				-7-020	-7-021	-7.5-001		
				-7.5-020	-9-001	B9-001		
				-9-020				
6	CROSSTUBE ASSEMBLY (Not Shown)	D-20221	1	-6.75-001				
7	BUSHING WEAR PAD	S-11613	4	ALL				
8	PIVOT BOLT KIT							
8a	Welded Alignment	S-3646	2	-6-020	-6.75-001	-7-001		
				-7-020	-7-021	-7.5-001		
				-7.5-020	-9-001	-9-020		
8b	QUIK-ALIGN®	S-21052	2	B6-020	B9-001			
9	SHOCK ABSORBER	S-20001	2	-6-020	UB6-020	-7-001		
				-7-020	-7-021	-7.5-001		
				-7.5-020	-9-001	UB9-001		
				-9-020				
		S-2212	2	-6.75-001				
10	SHOCK ABSORBER BOLT KIT	S-20218/2	2	-6-020	UB6-020	-7-001		
				-7-020	-7-021	-7.5-001		
				-7.5-020	-9-001	UB9-001		
				-9-020				
		S-2157/2	2	-6.75-001				

PRIMARY SUSPENSIONS

PARTS LIST

MODEL HT190U (UNDERSLUNG STYLE) cont.



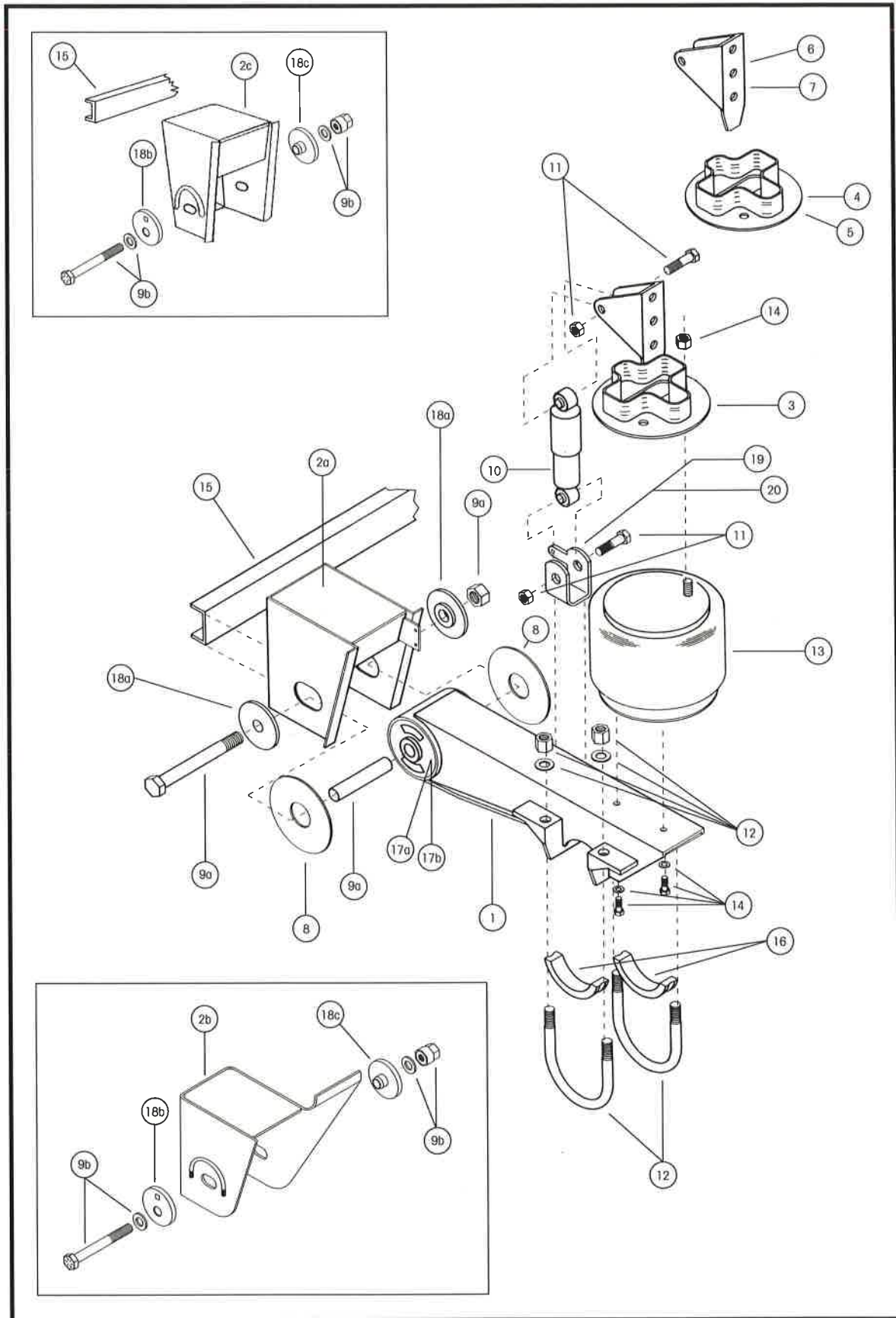
**MODEL HT190U (UNDERSLUNG STYLE) cont.**

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT190U ?)		
11	U-BOLT KIT					
	Standard	S-20032/4	4	-6.75-001	-7-001	-7-021
				-7.5-001	-9-001	B9-001
	Flattened	S-20306/4	4	-6-020	B6-020	-7-020
				-7.5-020	-9-020	
12	AIR SPRING	S-20217	2	ALL		
13	AIR SPRING BOLT KIT	S-20033/2	2	ALL		
14	FRAME BRACKET CHANNEL	A-1631-19	1	-6-020	UB6-020	-7-001
				-7-020	-7.5-001	-7.5-020
				-9-001	UB9-001	-9-020
15	AXLE SPACER	S-20701	4	ALL		
16	TRI-FUNCTIONAL® II BUSHING KIT ¹					
16a	Welded Alignment	A-6914	2	-6-020	-6.75-001	-7-001
				-7-020	-7-021	-7.5-001
				-7.5-020	-9-001	-9-020
16b	QUIK-ALIGN®	S-21166	2	B6-020	B9-001	
17	ALIGNMENT COLLARS					
17a	Welded Alignment	S-2770	4	-6-020	-6.75-001	-7-001
				-7-020	-7-021	-7.5-001
				-7.5-020	-9-001	-9-020
17b	Eccentric, QUIK-ALIGN®	S-20925	2	B6-020	B9-001	
17c	Concentric, QUIK-ALIGN®	S-20924	2	B6-020	B9-001	

¹ The Tri-Functional® II Bushing Kit includes Item #8 (Pivot Bolt Kit) and Item #7 (Bushing Wear Pad). Bushing Tool, S-21307, is required to correctly re-bush the suspension.

PARTS LIST

MODEL HT230 (TOP MOUNT STYLE)



PRIMARY SUSPENSIONS

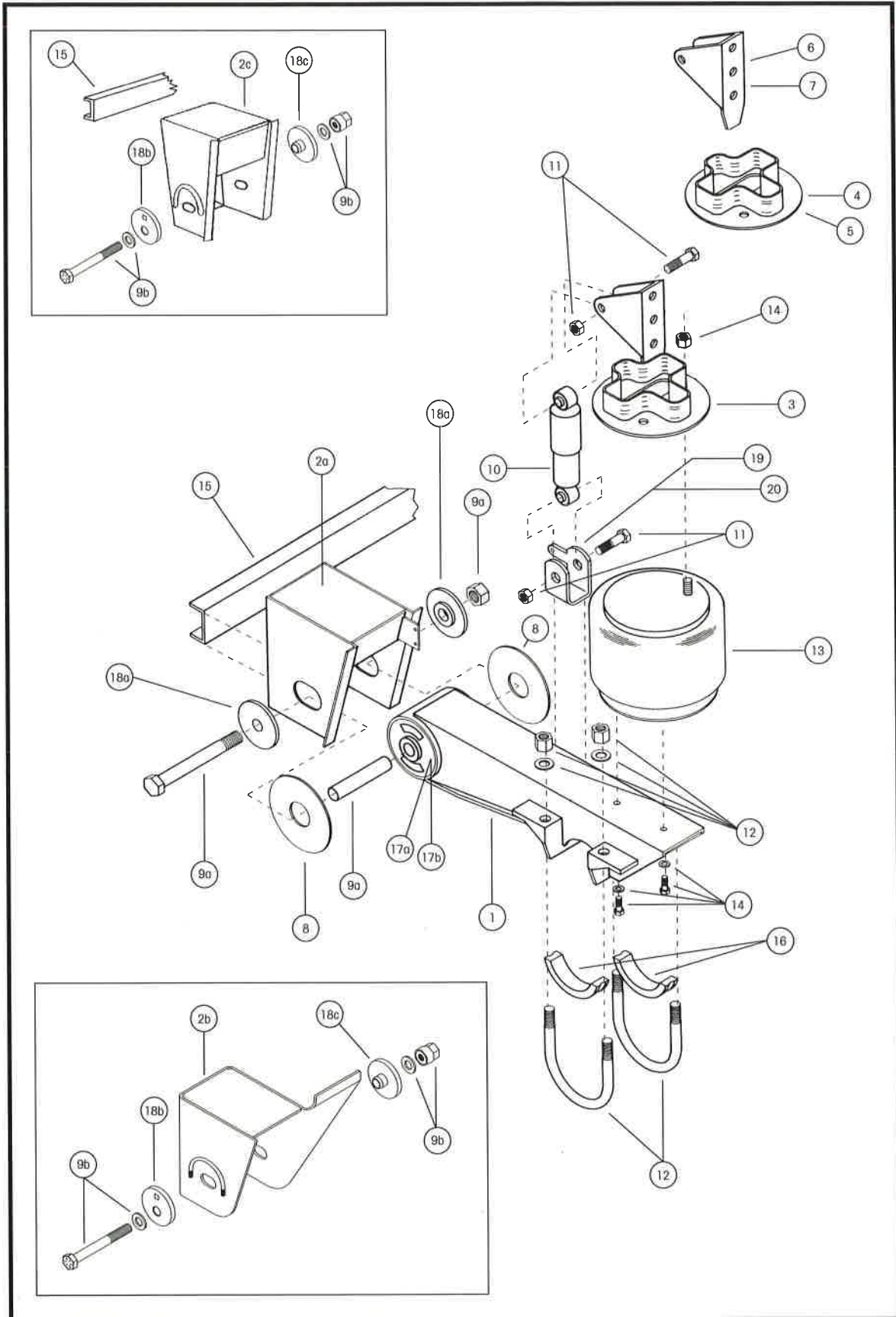


PARTS LIST

MODEL HT230 (TOP MOUNT STYLE)

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT230 ? or N-HT230 ?)				
1	BEAM ASSEMBLY							
	Roadside	S-20000-1	1	ALL				
	Curbside	S-20000-2	1	ALL				
2	FRAME BRACKET							
2a	Wingless, Welded Alignment, Roadside, Weld-on	C-20064-1	1	-14-001	-14-005	-14-007		
				-15-001	-15-003	-15-007		
				-15-027				
			C-20065-1	1	-16-001	-17-001	-17-003	
			C-20149-1	1	-15-016			
	Wingless, Welded Alignment, Curbside, Weld-on	C-20064-2	1	-14-001	-14-005	-14-007		
				-15-001	-15-003	-15-007		
				-15-027				
			C-20065-2	1	-16-001	-17-001	-17-003	
			C-20149-2	1	-15-016			
	Wingless, Welded Alignment, Roadside, Bolt-on	C-20047-1	1	-15-025				
				C-20007-1	1	-14-002		
						C-20008-1	1	-16-002
	Wingless, Welded Alignment, Curbside, Bolt-on	C-20047-2	1	-15-025				
C-20007-2				1	-14-002			
					C-20008-2	1	-16-002	
2b	Winged, QUIK-ALIGN®, Roadside, Weld-on	D-21179-1	1	TA14-001			TA15-001	TA15-003
				D-21165-1	1	TA16-001	TA17-001	
				D-21179-3	1	TA15-016		
2b	Winged, QUIK-ALIGN®, Curbside, Weld-on	D-21179-2	1	TA14-001	TA15-001	TA15-003		
				D-21165-2	1	TA16-001	TA17-001	
				D-21179-4	1	TA15-016		
2c	Wingless, QUIK-ALIGN®, Roadside, Weld-on	D-21590-1	1	TB14-001	TB15-001			
		D-21592-1	1	TB16-001	TB17-001			
	Wingless, QUIK-ALIGN®, Curbside, Weld-on	D-21590-2	1	TB14-001	TB15-001			
		D-21592-2	1	TB16-001	TB17-001			
3	AIR SPRING/SHOCK MOUNT Roadside	C-20011-1	1	-14-001	TA14-001	TB14-001		
				-14-005	-15-003	TA15-003		
				-15-016	TA15-016	-15-027		
				C-20012-1	1	-15-001	TA15-001	TB15-001
				C-20013-1	1	-16-001	TA16-001	TB16-001
						-17-003		
				C-20014-1	1	-17-001	TA17-001	TB17-001
		C-20015-1	1	-14-002				
		C-20041-1	1	-16-002				

PRIMARY SUSPENSIONS

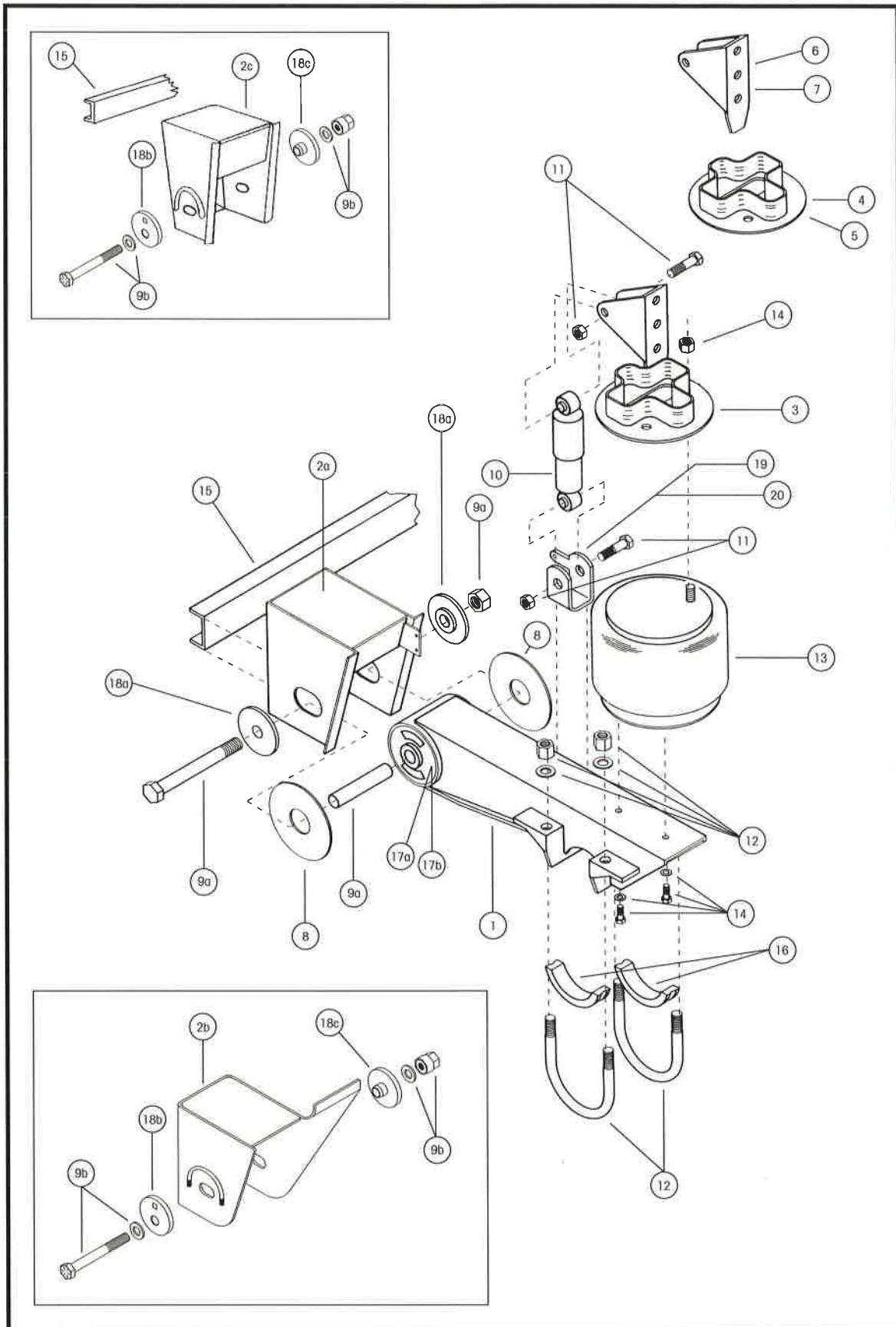


**MODEL HT230 (TOP MOUNT STYLE) cont.**

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT230 ? or N-HT230 ?)				
3	AIR SPRING/SHOCK MOUNT (cont.) Curbside	C-20011-2	1	-14-001	TA14-001	TB14-001		
				-14-005	-15-003	TA15-003		
				-15-016	TA15-016	-15-027		
		C-20012-2	1	-15-001	TA15-001	TB15-001		
		C-20013-2	1	-16-001	TA16-001	TB16-001		
				-17-003				
		C-20014-2	1	-17-001	TA17-001	TB17-001		
		C-20015-2	1	-14-002				
		C-20041-2	1	-16-002				
		4	AIR SPRING SPACER ASSEMBLY	C-20016-1	2	-15-007		
5	AIR SPRING PLATE	B-20037	2	-14-007				
6	UPPER SHOCK CLEVIS¹	S-2592	2	-14-007	-15-007			
7	UPPER SHOCK BRACKET	S-20023	2	-15-025				
8	BUSHING WEAR PAD	S-11613	4	ALL				
9a	PIVOT BOLT KIT Welded Alignment	S-3646	2	-14-001	-14-002	-14-005		
				-14-007	-15-001	-15-003		
				-15-007	-15-016	-15-025		
				-15-027	-16-001	-16-002		
				-17-001	-17-003			
9b	QUIK-ALIGN®	S-21052	2	TA14-001	TB14-001	TA15-001		
				TB15-001	TA15-003	TA15-016		
				TA16-001	TB16-001	TA17-001		
				TB17-001				
10	SHOCK ABSORBER	S-20002	2	-14-001	TA14-001	TB14-001		
				-14-002	-14-005	-15-001		
				TA15-001	TB15-001	-15-003		
				TA15-003	-15-016	TA15-016		
				-15-025	-15-027	-16-001		
				TA16-001	TB16-001	-16-002		
				-17-001	TA17-001	TB17-001		
				-17-003				
				S-2160	2	-14-007	-15-007	
				11	SHOCK ABSORBER BOLT KIT	S-20031/2	2	-14-001	TA14-001	TB14-001
-14-002	-14-005	-15-001						
TA15-001	TB15-001	-15-003						
TA15-003	-15-016	TA15-016						
-15-025	-15-027	-16-001						
TA16-001	TB16-001	-16-002						
-17-001	TA17-001	TB17-001						
-17-003								
S-2157/2	2	-14-007	-15-007					
12	U-BOLT KIT	S-20032/4	4	ALL				
13	AIR SPRING	S-20010	2	ALL				
14	AIR SPRING BOLT KIT	S-20033/2	2	ALL				

¹ Picture depicted may not resemble all models.

MODEL HT230 (TOP MOUNT STYLE) cont.



PRIMARY SUSPENSIONS



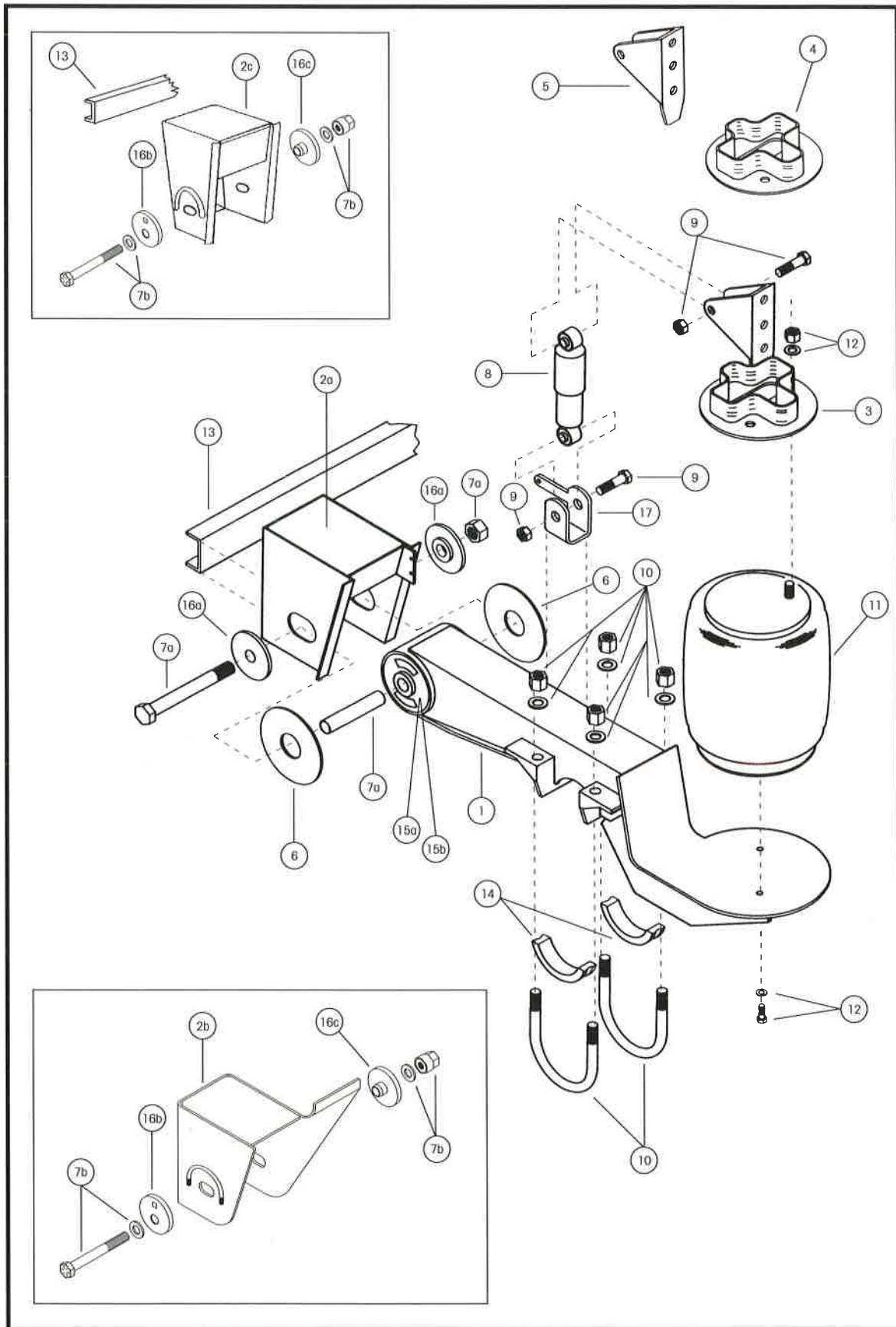
MODEL HT230 (TOP MOUNT STYLE) cont.

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT230 ? or N-HT230 ?)		
15	FRAME BRACKET CHANNEL	A-1631-19	1	-14-001	TB14-001	-14-002
				-14-005	-14-007	-15-001
				TB15-001	-15-003	-15-007
				-15-025	-16-001	TB16-001
				-16-002	-17-001	TB17-001
				-17-003		
16	AXLE SPACER	S-20701	4	ALL		
17	TRI-FUNCTIONAL® II BUSHING KIT ²					
17a	Welded Alignment	A-6914	2	-14-001	-14-002	-14-005
				-14-007	-15-001	-15-003
				-15-007	-15-016	-15-025
				-15-027	-16-001	16-002
				-17-001	-17-003	
17b	QUIK-ALIGN®	S-21166	2	TA14-001	TB14-001	TA15-001
				TB15-001	TA15-003	TA15-016
				TA16-001	TB16-001	TA17-001
				TB17-001		
18	ALIGNMENT COLLARS					
18a	Welded Alignment	S-2770	4	-14-001	-14-002	-14-005
				-14-007	-15-001	-15-003
				-15-007	-15-016	-15-025
				-15-027	-16-001	-16-002
				-17-001	-17-003	
18b	Eccentric, QUIK-ALIGN®	S-20925	2	TA14-001	TB14-001	TA15-001
				TB15-001	TA15-003	TA15-016
				TA16-001	TB16-001	TA17-001
				TB17-001		
18c	Concentric, QUIK-ALIGN®	S-20924	2	TA14-001	TB14-001	TA15-001
				TB15-001	TA15-003	TA15-016
				TA16-001	TB16-001	TA17-001
				TB17-001		
19	LOWER SHOCK CLEVIS ³	C-20069	2	-14-001	TA14-001	TB14-001
				-14-002	-14-005	-15-001
				TA15-001	TB15-001	-15-003
				TA15-003	-15-016	TA15-016
				-15-025	-15-027	-16-001
				TA16-001	TB16-001	-16-002
				-17-001	TA17-001	TB17-001
-17-003						
20	LOWER SHOCK BRACKET	S-2723	2	-14-007	-15-007	

² The Tri-Functional® II Bushing Kit includes Item #9 (Pivot Bolt Kit) and Item #8 (Bushings Wear Pad). Bushing Tool, S-21307, is required to correctly re-bush the suspension.

³ Lower Shock Clevis is included when ordering Item #1 (Beam Assembly).

MODEL HT250T (TOP MOUNT STYLE)

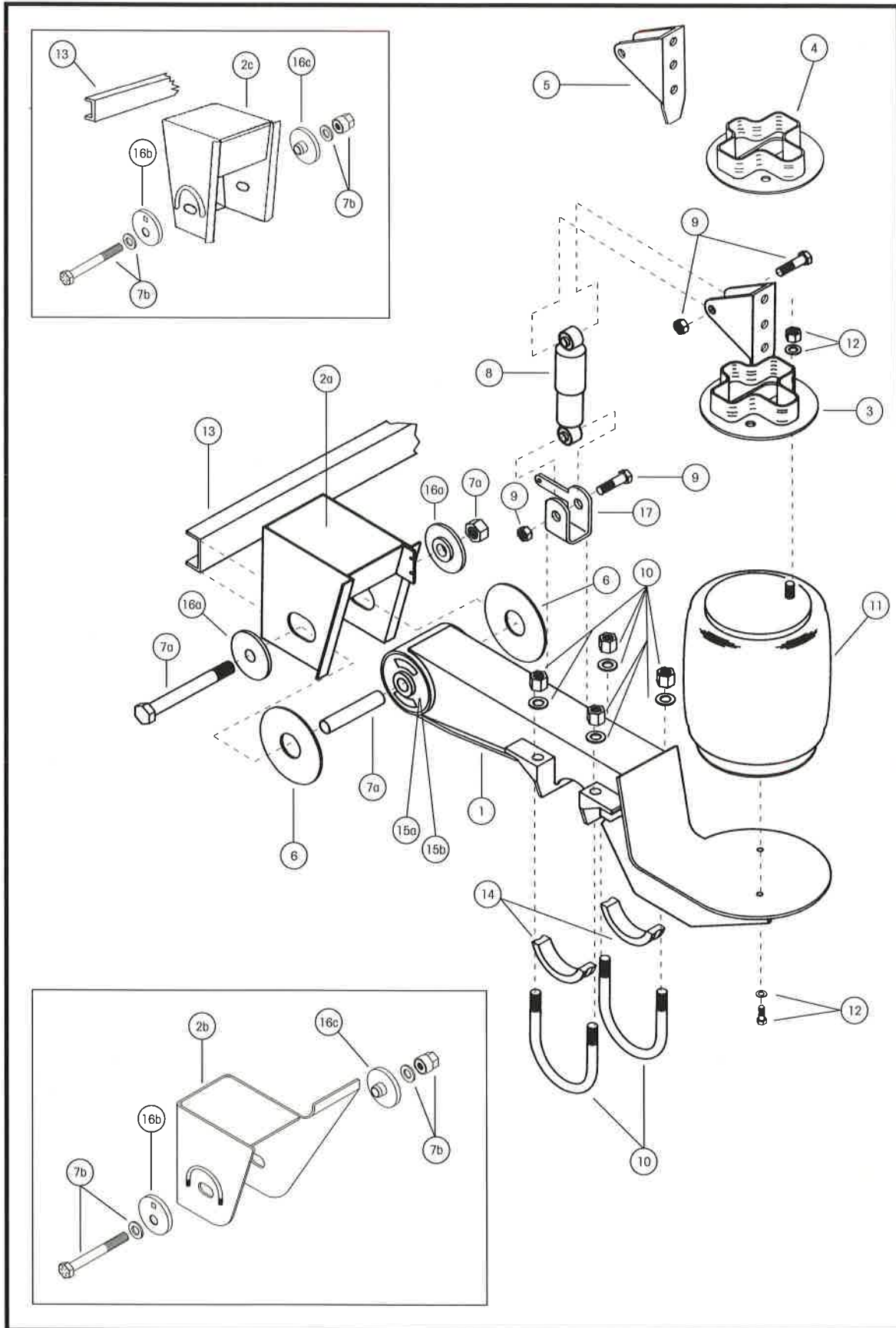


**MODEL HT250T (TOP MOUNT STYLE)**

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT250T ? or N-HT250T ?)				
1	BEAM ASSEMBLY							
	Roadside	D-20602-1	1	ALL				
	Curbside	D-20602-2	1	ALL				
2	FRAME BRACKET							
2a	Wingless, Welded Alignment, Roadside, Weld-on	C-20064-1	1	-12-001	-12-003	-12-020		
				-14-001	-14-006	-15-001		
				-15-006	-15-023			
		C-20065-1	1	-16-001	-17-001	-17-021		
				D-14190-1	1	-19-001		
	Wingless, Welded Alignment, Curbside, Weld-on	C-20064-2	1	-12-001	-12-003	-12-020		
				-14-001	-14-006	-15-001		
				-15-006	-15-023			
		C-20065-2	1	-16-001	-17-001	-17-021		
				D-14190-2	1	-19-001		
2b	Winged, QUIK-ALIGN®, Roadside, Weld-on	D-21179-1	1	A12-001	A14-001	A15-001		
				D-21165-1	1	A16-001	A17-001	
	Winged, QUIK-ALIGN®, Curbside, Weld-on	D-21179-2	1	A12-001	A14-001	A15-001		
				D-21165-2	1	A16-001	A17-001	
	Winged, QUIK-ALIGN®, Roadside, Bolt-on	D-21204-1	1	A12-002				
				Winged, QUIK-ALIGN®, Curbside, Bolt-on	D-21204-2	1	A12-002	
	2c	Wingless, QUIK-ALIGN®, Roadside, Weld-on	D-21590-1				1	B12-001	B14-001	B14-024
					B15-001			
				D-21592-1	1	B16-001		B17-001
		Wingless, QUIK-ALIGN®, Curbside, Weld-on	D-21590-2	1	B12-001	B14-001	B14-024	
						B15-001		
					D-21592-2	1	B16-001	B17-001
3	AIR SPRING/SHOCK MOUNT¹ Roadside	C-21212-1	1	A12-002				
				C-21216-1	1	-12-001	A12-001	B12-001
		-14-001	A14-001			B14-001		
		-14-006	B14-024					
		C-21217-1	1	-15-001	A15-001	B15-001		
				-15-006				
		C-21218-1	1	-16-001	A16-001	B16-001		
		C-21219-1	1	-17-001	A17-001	B17-001		
		C-21223-1	1	-19-001				

¹ Not used with a slider suspension (components supplied by the slider manufacturer). Some units supplied to slider manufacturer with Item #4 (Air Spring Spacer Assembly) only.

MODEL HT250T (TOP MOUNT STYLE) cont.



**MODEL HT250T (TOP MOUNT STYLE) cont.**

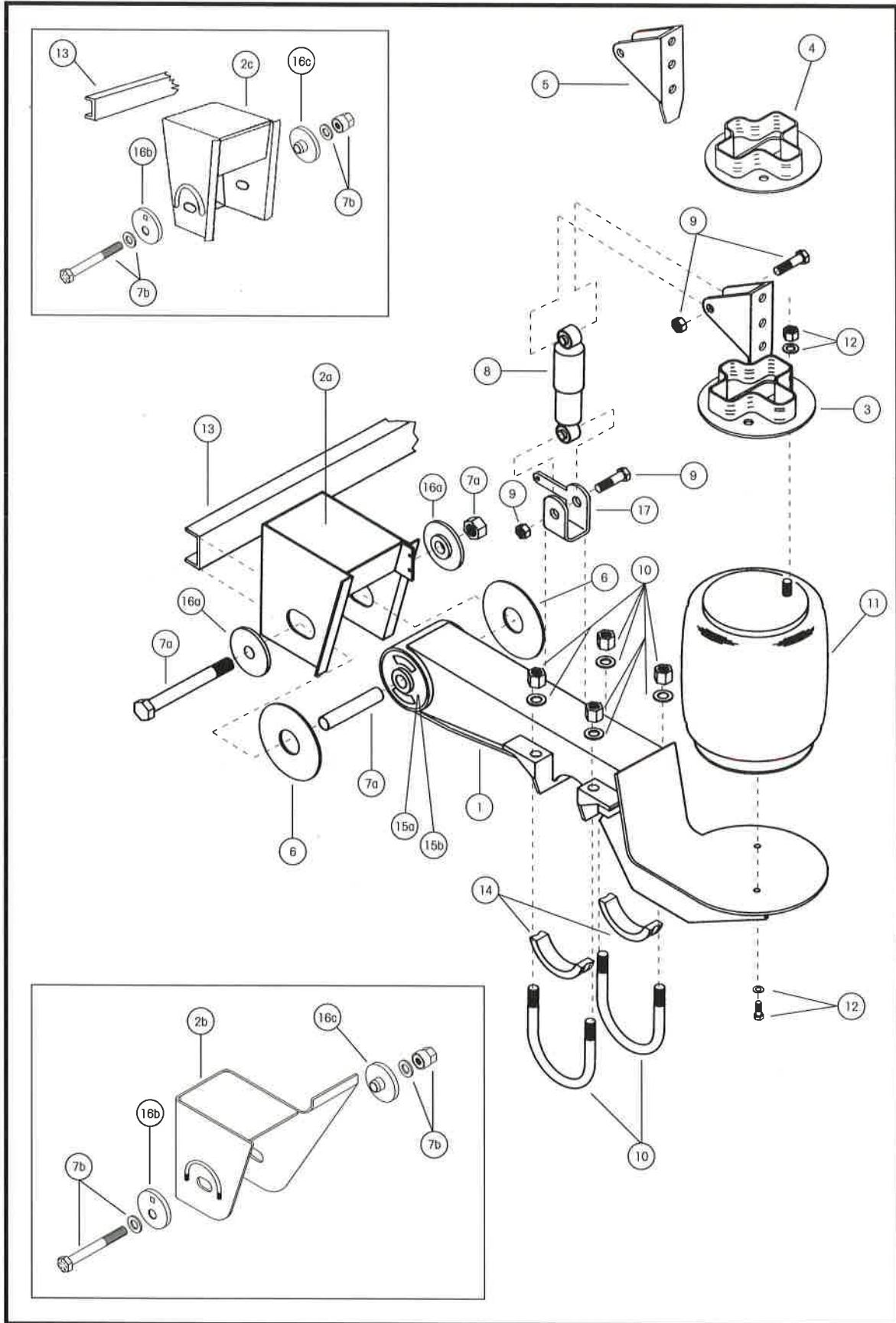
ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT250T ? or N-HT250T ?)			
3	AIR SPRING/SHOCK MOUNT¹ (cont.)						
		Curbside	C-21212-2	1	A12-002		
			C-21216-2	1	-12-001	A12-001	B12-001
					-14-001	A14-001	B14-001
					-14-006	B14-024	
			C-21217-2	1	-15-001	A15-001	B15-001
					-15-006		
			C-21218-2	1	-16-001	A16-001	B16-001
			C-21219-2	1	-17-001	A17-001	B17-001
			C-21223-2	1	-19-001		
4	AIR SPRING SPACER ASSEMBLY	C-21210-4	2	-15-023			
		C-21210-6	2	-17-021			
5	UPPER SHOCK BRACKET	S-20023	2	-17-021			
6	BUSHING WEAR PAD	S-11613	4	ALL			
7	PIVOT BOLT KIT						
7a	Welded Alignment	S-3646	2	-12-001	-12-003	-12-020	
				-14-001	-14-006	-15-001	
				-15-006	-15-023	-16-001	
				-17-001	-17-021	-19-001	
7b	QUIK-ALIGN[®]	S-21052		A12-001	B12-001	A12-002	
				A14-001	B14-001	B14-024	
				A15-001	B15-001	A16-001	
				B16-001	A17-001	B17-001	
8	SHOCK ABSORBER	S-2212	2	ALL			
9	SHOCK ABSORBER BOLT KIT	S-20031/2	2	ALL			
10	U-BOLT KIT	S-21207/4	4	ALL			
11	AIR SPRING	S-20124	2	ALL			
12	AIR SPRING BOLT KIT	S-20033/2	2	ALL			
13	FRAME BRACKET CHANNEL	A-1631-19	1	-12-001	B12-001	-14-001	
				B14-001	-14-006	-15-001	
				B15-001	-15-006	-16-001	
				B16-001	-17-001	B17-001	
				-17-021	-19-001		
14	AXLE SPACER	S-20701	4	ALL			
15	TRI-FUNCTIONAL[®] II BUSHING KIT²						
15a	Welded Alignment	A-6914	2	-12-001	-12-003	-12-020	
				-14-001	-14-006	-15-001	
				-15-006	-15-023	-16-001	
				-17-001	-17-021	-19-001	
15b	QUIK-ALIGN[®]	S-21166	2	A12-001	B12-001	A12-002	
				A14-001	B14-001	B14-024	
				A15-001	B15-001	A16-001	
				B16-001	A17-001	B17-001	

¹ Not used with a slider suspension (components supplied by the slider manufacturer). Some units supplied to slider manufacturer with Item #4 (Air Spring Spacer Assembly) only.

² The Tri-Functional[®] II Bushing Kit includes Item #6 (Pivot Bolt Kit) and Item #5 (Bushing Wear Pad). Bushing Tool, S-21307, is required to correctly re-bush the suspension.

PARTS LIST

MODEL HT250T (TOP MOUNT STYLE) cont.





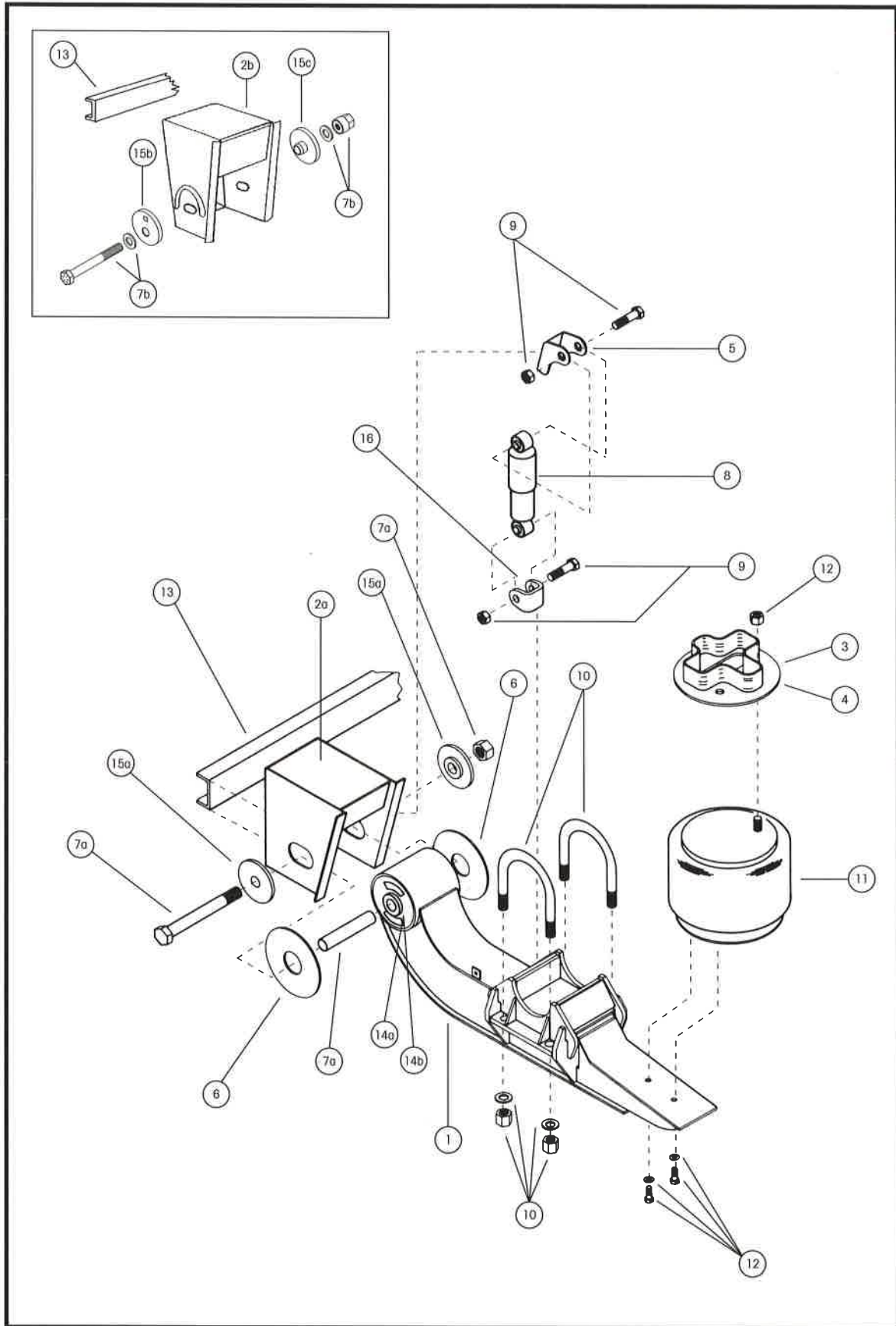
MODEL HT250T (TOP MOUNT STYLE) cont.

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT250T ? or N-HT250T ?)		
16	ALIGNMENT COLLARS					
16a	Welded Alignment	S-2770	4	-12-001	-12-003	-12-020
				-14-001	-14-006	-15-001
				-15-006	-15-023	-16-001
				-17-001	-17-021	-19-001
16b	Eccentric, QUIK-ALIGN®	S-20925	2	A12-001	B12-001	A12-002
				A14-001	B14-001	B14-024
				A15-001	B15-001	A16-001
				B16-001	A17-001	B17-001
16c	Concentric, QUIK-ALIGN®	S-20924	2	A12-001	B12-001	A12-002
				A14-001	B14-001	B14-024
				A15-001	B15-001	A16-001
				B16-001	A17-001	B17-001
17	LOWER SHOCK CLEVIS³	C-20069	2	ALL		

³ Lower Shock Clevis is included when ordering Item #1 (Beam Assembly).

PARTS LIST

MODEL HT250U (UNDERSLUNG STYLE)

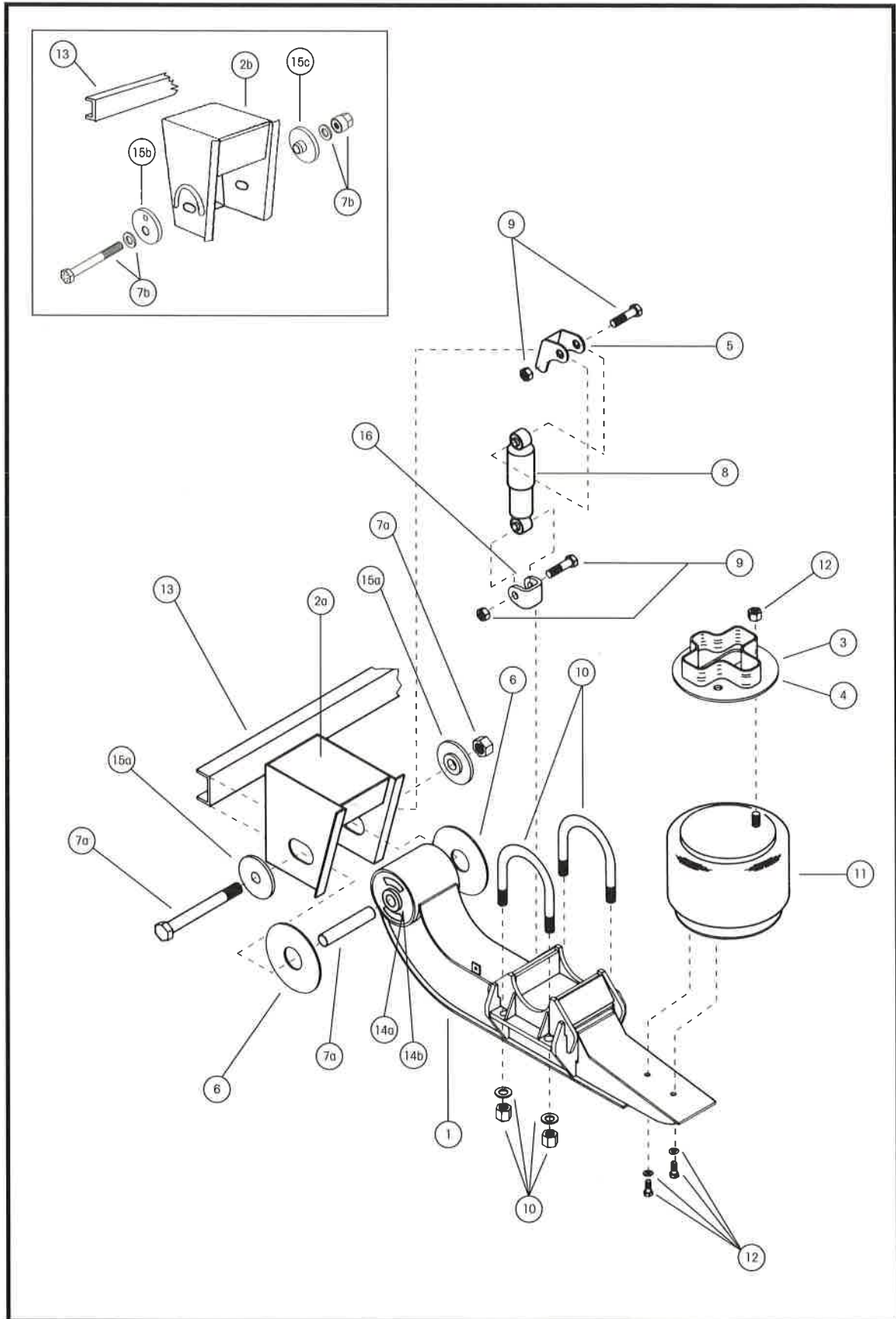




MODEL HT250U (UNDERSLUNG STYLE)

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT250U ? or N-HT250U ?)				
1	BEAM ASSEMBLY							
	Roadside	C-20335-1	1	ALL				
	Curbside	C-20335-2	1	ALL				
2	FRAME BRACKET							
2a	Wingless, Welded Alignment, Roadside, Weld-on	D-20321-1	1	-6.5-001	-6.5-008	-6.5-011		
				-7.5-005				
		D-20322-1	1	-7.5-001	-9-001	-9-002		
				-9-003	-9-006	-9-010		
		D-20324-1	1	-14-001				
		D-20323-1	1	-12-001				
	Wingless, Welded Alignment, Curbside, Weld-on	D-20717-1	1	-6.5-002				
		D-20321-2	1	-6.5-001	-6.5-008	-6.5-011		
				-7.5-005				
		D-20322-2	1	-7.5-001	-9-001	-9-002		
				-9-003	-9-006	-9-010		
	2b	Wingless, QUIK-ALIGN®, Roadside, Weld-on	D-21926-1	1	B9-010			
			D-21927-1	1	B6.5-001			
Wingless, QUIK-ALIGN®, Curbside, Weld-on		D-21926-2	1	B9-010				
		D-21927-2	1	B6.5-001				
3	AIR SPRING SPACER ASSEMBLY	C-21210-4	2	-14-001				
		C-21210-3	2	-9-002	-12-001			
4	AIR SPRING PLATE ¹	B-21209	2	-6.5-001	B6.5-001	-6.5-002		
				-6.5-008	-6.5-011	-7.5-001		
				-7.5-005	-9-001	-9-006		
				-9-010	B9-010			
5	UPPER SHOCK CLEVIS	C-20113	2	-6.5-001	B6.5-001	-6.5-002		
				-6.5-008	-6.5-011	-7.5-005		
				S-2592	2	-7.5-001	-9-001	-9-002
						-9-003	-9-006	-9-010
						B9-010	-12-001	-14-001
6	BUSHING WEAR PAD	S-11613	4	ALL				
7	PIVOT BOLT KIT							
7a	Welded Alignment	S-3646	2	-6.5-001	-6.5-002	-6.5-008		
				-6.5-011	-7.5-001	-7.5-005		
				-9-001	-9-002	-9-003		
				-9-006	-9-010	-12-001		
						-14-001		
7b	QUIK-ALIGN®	S-21052	2	B6.5-001	B9-010			
8	SHOCK ABSORBER	S-20002	2	ALL				
9	SHOCK ABSORBER BOLT KIT	S-2157/2	2	ALL				
10	U-BOLT KIT	S-3650/4	4	ALL				

¹ Supplied by the slider manufacturer on Model HT250U-9-003 suspension.



**MODEL HT250U (UNDERSLUNG STYLE) cont.**

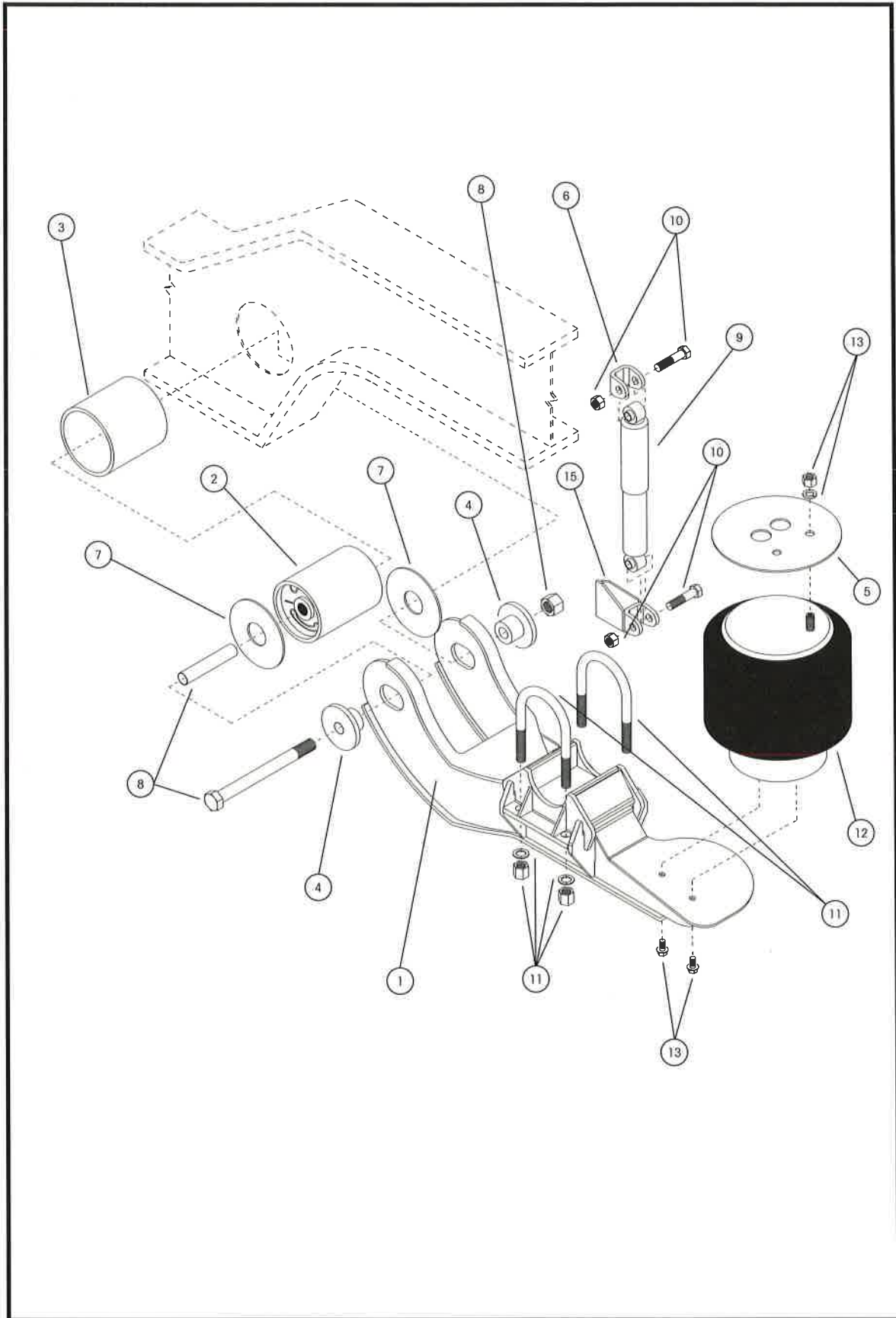
ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT250U ? or N-HT250U ?)					
11	AIR SPRING	S-20124	2	-6.5-001	B6.5-001	-6.5-008			
				-7.5-001	-7.5-005	-9-001			
				-9-002	-9-003	-12-001			
				-14-001					
				S-20127	2	-9-006			
				S-20413	2	-6.5-011			
				S-20414	2	-9-010	B9-010		
				S-20716	2	-6.5-002			
				12	AIR SPRING BOLT KIT	S-20033/2	2	ALL	
				13	FRAME BRACKET CHANNEL	A-1631-19	1	-6.5-001	B6.5-001
-6.5-008	-6.5-011	-7.5-001							
-7.5-005	-9-001	-9-002							
-9-006	-9-010	B9-010							
-12-001	-14-001								
14	TRI-FUNCTIONAL® II BUSHING KIT ²								
14a	Welded Alignment	A-6914	2	-6.5-001	-6.5-002	-6.5-008			
				-6.5-011	-7.5-001	-7.5-005			
				-9-001	-9-002	-9-003			
				-9-006	-9-010	-12-001			
				-14-001					
14b	QUIK-ALIGN®	S-21166	2	B6.5-001	B9-010				
15	ALIGNMENT COLLARS								
15a	Welded Alignment	S-2770	4	-6.5-001	-6.5-002	-6.5-008			
				-6.5-011	-7.5-001	-7.5-005			
				-9-001	-9-002	-9-003			
				-9-006	-9-010	-12-001			
				-14-001					
15b	Eccentric, QUIK-ALIGN®	S-20925	2	B6.5-001	B9-010				
15c	Concentric, QUIK-ALIGN®	S-20924	2	B6.5-001	B9-010				
16	LOWER SHOCK CLEVIS ³	S-2592	2	ALL					

² The Tri-Functional® II Bushing Kit includes Item #7 (Pivot Bolt Kit) and Item #6 (Bushing Wear Pad). Bushing Tool, S-21307, is required to correctly re-bush the suspension.

³ Lower Shock Clevis is included when ordering Item #1 (Beam Assembly).

PARTS LIST

MODEL HT250U "Y" BEAM WELDED ALIGNMENT (UNDERSLUNG STYLE)



PRIMARY SUSPENSIONS



PARTS LIST

MODEL HT250U "Y" BEAM WELDED ALIGNMENT (UNDERSLUNG STYLE)

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT250U- ?)				
1	BEAM ASSEMBLY	Roadside	C-20131-1	1	6.5Y-001	9Y-001	9Y-006	
					9Y-010			
	Curbside	C-21076-1	1	9Y-021				
		C-20131-2	1	6.5Y-001	9Y-001	9Y-006		
				9Y-010				
		C-21076-2	1	9Y-021				
2	BUSHING ASSEMBLY	B-7343	2	ALL				
3	TUBE SLEEVE	B-7342	2	ALL				
4	ALIGNMENT COLLAR	B-7349	4	ALL				
5	AIR SPRING PLATE	B-21209	2	ALL				
6	UPPER SHOCK CLEVIS	S-2592	2	6.5Y-001	9Y-001	9Y-006		
				9Y-010				
				C-20113	2	9Y-021		
7	BUSHING WEAR PAD	S-11613	4	ALL				
8	PIVOT BOLT KIT	S-7345	2	ALL				
9	SHOCK ABSORBER	S-20002	2	ALL				
10	SHOCK ABSORBER BOLT KIT	S-2157/2	2	ALL				
11	U-BOLT KIT	S-3650/4	4	ALL				
12	AIR SPRING	S-20124	2	6.5Y-001	9Y-001	9Y-021		
				S-20414	2	9Y-010		
				S-20127	2	9Y-006		
13	AIR SPRING BOLT KIT	S-20033/2	2	ALL				
14	TRI-FUNCTIONAL® II BUSHING KIT							
	"Y" BEAM ¹ (Not Shown)	A-13136	2	ALL				
15	LOWER SHOCK CLEVIS ²	C-20145-1	2	6.5Y-001	9Y-001	9Y-006		
				9Y-010				

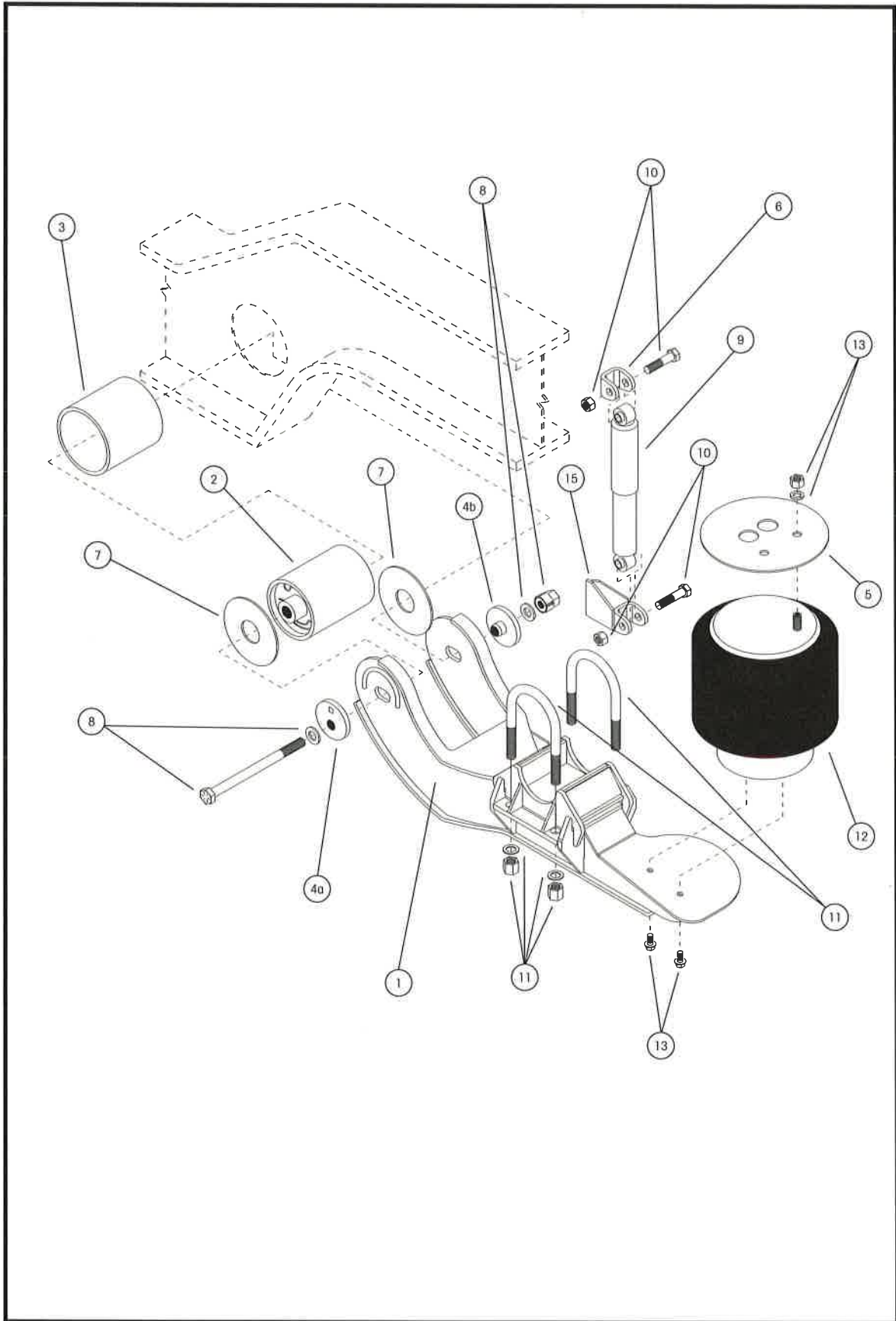
¹ The Tri-Functional® II Bushing Kit "Y" Beam includes Item #8 (Pivot Bolt Kit), Item #7 (Bushing Wear Pad), Item #4 (Alignment Collars) and Item #2 (Bushing Assembly).

² The lower shock clevis for the HT250U-9Y-021 has been modified. Contact Hendrickson Engineering for more information.

PRIMARY SUSPENSIONS

PARTS LIST

MODEL HT250U "Y" BEAM QUIK-ALIGN® (UNDERSLUNG STYLE)





MODEL HT250U "Y" BEAM QUIK-ALIGN® (UNDERSLUNG STYLE)

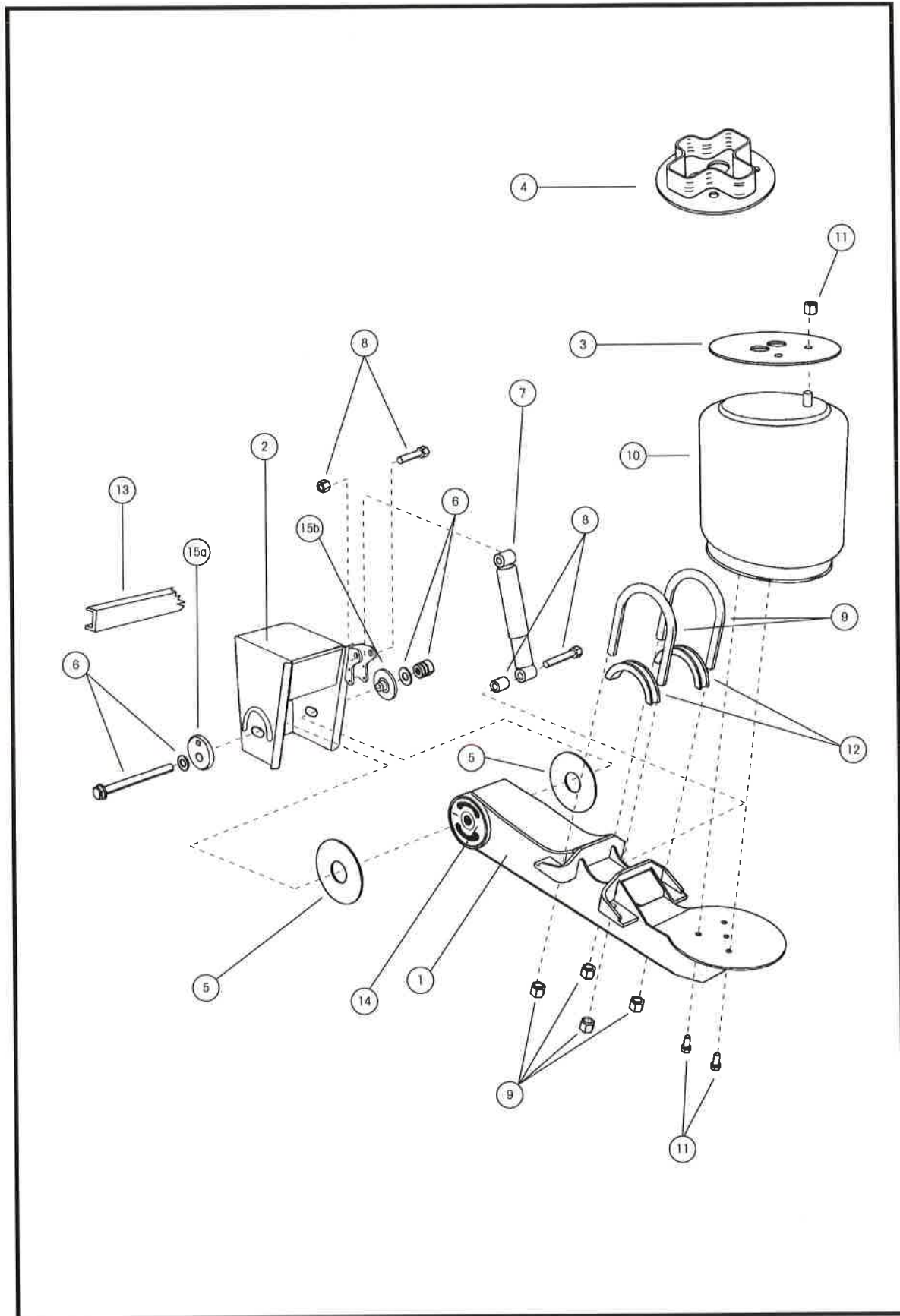
ITEM	DESCRIPTION	PART NO.	QTY	NOTE
1	BEAM ASSEMBLY			
	Standard, Roadside	C-22350-1	1	
	Standard, Curbside	C-22350-2	1	
	For Use with Shock Straps, Roadside	C-23365-1	1	
	For Use with Shock Straps, Curbside	C-23365-2	1	
2	BUSHING ASSEMBLY	B-23349	2	
3	TUBE SLEEVE	B-7342	2	
4	ALIGNMENT COLLAR			
4a	Eccentric, QUIK-ALIGN®	S-20925	2	Pivot bolt hole is offset from center of collar
4b	Concentric, QUIK-ALIGN®	S-20924	2	Pivot bolt hole is in center of collar
5	AIR SPRING PLATE	B-21209	2	
6	UPPER SHOCK CLEVIS			
	Standard	S-2592	2	
	For Use with Shock Straps	C-20113	2	
7	BUSHING WEAR PAD	S-11613	4	
8	PIVOT BOLT KIT	S-24593	2	
9	SHOCK ABSORBER			
	Standard	S-20002	2	Use to replace A-20002 shock absorber
	Extended Service, High Damping	S-21553		Use to replace A-21553 shock absorber
10	SHOCK ABSORBER BOLT KIT	S-2157/2	2	
11	U-BOLT KIT	S-3650/4	4	
12	AIR SPRING	S-20127	2	Use to replace C-20127 air spring
		S-20414	2	Use to replace C-20414 air spring
		S-20124	2	Use to replace C-20124 air spring
13	AIR SPRING BOLT KIT	S-20033/2	2	
14	TRI-FUNCTIONAL® BUSHING KIT			
	"Y" BEAM ¹ (Not Shown)	S-24594	2	
15	LOWER SHOCK CLEVIS ²	C-20145-1	2	

¹ The Tri-Functional® Bushing Kit "Y" Beam includes Item #8 (Pivot Bolt Kit), Item #7 (Bushing Wear Pad), Item #4 (Alignment Collars) and Item #2 (Bushing Assembly).

² The lower shock clevis for units with shock straps has been modified. Contact Hendrickson Engineering for more information.

PARTS LIST

MODEL HT250US (UNDERSLUNG STYLE)



PRIMARY SUSPENSIONS



PARTS LIST

MODEL HT250US (UNDERSLUNG STYLE)

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
1	BEAM ASSEMBLY			
	Roadside	D-24186-1	1	Includes bushing
	Curbside	D-24186-2	1	Includes bushing
2	FRAME BRACKET (By Ride Height)			
	5-1/2" Std, 6-1/2" Std and 7-1/2" Tltd			
	Roadside	D-22826-1	1	Measures 8" ¹
	Curbside	D-22826-2	1	Measures 8" ¹
	6-1/2" Tprd			
	Roadside	D-22680-1	1	Measures 8" at highest point and 5.52" at lowest point ¹
	Curbside	D-22680-2	1	Measures 8" at highest point and 5.52" at lowest point ¹
	6-1/2" Exr			
	Roadside	D-23166-1	1	Measures 8"; shock clevis protrudes above the frame bracket ¹
	Curbside	D-23166-2	1	Measures 8"; shock clevis protrudes above the frame bracket ¹
	7-1/2" Std, 9" Std, 6-1/2" Ltd, 7-1/2" Ltd and 9" Ltd			
	Roadside	D-22827-1	1	Measures 10" ¹
	Curbside	D-22827-2	1	Measures 10" ¹
	12" Std			
	Roadside	D-22828-1	1	Measures 12" ¹
	Curbside	D-22828-2	1	Measures 12" ¹
	12" Ltd and 14" Std			
	Roadside	D-22829-1	1	Measures 14" ¹
	Curbside	D-22829-2	1	Measures 14" ¹
	14" Fcm			
	Roadside	D-23271-1	1	
	Curbside	D-23271-2	1	
3	AIR SPRING PLATE (By Ride Height)			
	5-1/2" Std, 6-1/2" Std, 7-1/2" Std, 9" Std and 7-1/2" Tltd	B-21209	2	With flat plate
4	AIR SPRING SPACER ASSEMBLY (By Ride Height)			
	6-1/2" Ltd and 7-1/2" Ltd	C-21210-1	2	With 1" spacer
	12" Std and 9" Ltd	C-21210-3	2	With 3" spacer
	14" Std, 12" Ltd and 14" Fcm	C-21210-5	2	With 5" spacer
5	BUSHING WEAR PAD	S-11613	4	
6	QUIK-ALIGN® PIVOT BOLT KIT	S-21052	2	Includes bolt, TORQ-RITE® Nut and washers

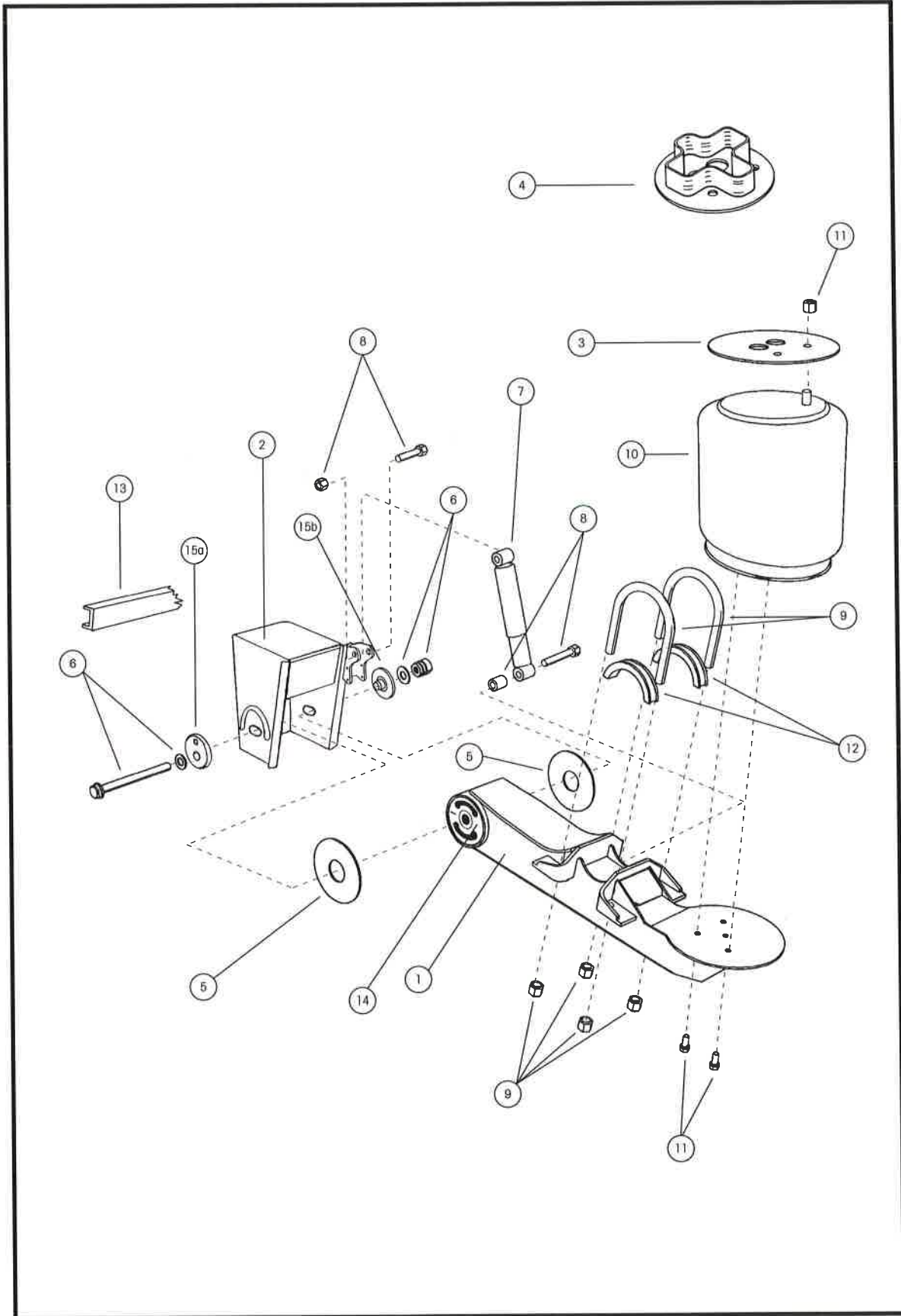
¹ Measurement is from the top of the frame bracket to the center of the pivot connection.

ABBREVIATIONS:

Std: standard travel shock absorber
 Ltd: limited up travel (jounce) shock absorber
 Tltd: tilted placement of the frame bracket

Tprd: tapered frame bracket
 Exr: extended rebound suspension
 Fcm: frame clearance model

PRIMARY SUSPENSIONS



PRIMARY SUSPENSIONS

**MODEL HT250US (UNDERSLUNG STYLE) cont.**

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
7	SHOCK ABSORBER (By Ride Height)			
	Standard Duty			
	5-1/2" Std and 6-1/2" Std	S-23650	2	Use to replace B-21947 or B-23650 shock absorbers
	6-1/2" Exr, 6-1/2" Tprd, 7-1/2" Tltd and 14" Fcm	S-23651	2	Use to replace B-22862 or B-23651 shock absorbers
	7-1/2" Std, 9" Std, 12" Std, 14" Std, 6-1/2" Ltd, 7-1/2" Ltd, 9" Ltd and 12" Ltd	S-23649	2	Use to replace B-21936 or B-23649 shock absorbers
	Extended Service, High Damping			
	5-1/2" Std and 6-1/2" Std	S-23744	2	Use to replace B-21995 or B-23744 shock absorbers
	6-1/2" Exr	S-24579	2	
	7-1/2" Std, 9" Std, 12" Std, 14" Std, 6-1/2" Ltd, 7-1/2" Ltd, 9" Ltd and 12" Ltd	S-23743	2	Use to replace B-21994 or B-23743 shock absorbers
8	SHOCK ABSORBER BOLT KIT	S-24024	2	Order one kit per shock absorber
9	U-BOLT KIT (By Ride Height)			
	With 17-1/2" Tires and Flattened U-Bolts			
	5-1/2" Std, 6-1/2" Std, 7-1/2" Std, 9" Std, 12" Std, 14" Std, 6-1/2" Ltd, 7-1/2" Ltd, 9" Ltd, 12" Ltd, 6-1/2" Exr and 14" Fcm	S-22894/4	4	
	With Tires Larger Than 17-1/2" and Flattened U-Bolts			
	5-1/2" Std and 6-1/2" Std	S-22894/4	4	
	With Tires Larger Than 17-1/2" and Round U-Bolts			
	7-1/2" Std, 9" Std, 12" Std, 14" Std, 6-1/2" Ltd, 7-1/2" Ltd, 9" Ltd, 12" Ltd and 14" Fcm	S-20032/4	4	
10	AIR SPRING			
	Standard	S-20127	2	Use to replace C-20127 air spring
	Standard, Rotated	S-20414	2	Use to replace C-20414 air spring
	High Pressure	S-20124	2	Use to replace C-20124 air spring
	High Pressure, Rotated	S-20413	2	Use to replace C-20413 air spring
	High Pressure, Short Bellows	S-20716	2	Use to replace C-20716 air spring
11	AIR SPRING BOLT KIT	S-20033/2	2	Order one kit per air spring
12	AXLE SPACER	S-20701	4	
13	FRAME BRACKET CHANNEL	A-1631-19	1	
14	TRI-FUNCTIONAL® II BUSHING KIT (QUIK-ALIGN®)	S-21166	2	Includes bushing, pivot bolt kit, bushing wear pads and lube
15	ALIGNMENT COLLARS			
15a	Eccentric, QUIK-ALIGN®	S-20925	2	Pivot bolt hole is offset from center of the collar
15b	Concentric, QUIK-ALIGN®	S-20924	2	Pivot bolt hole is in the center of the collar

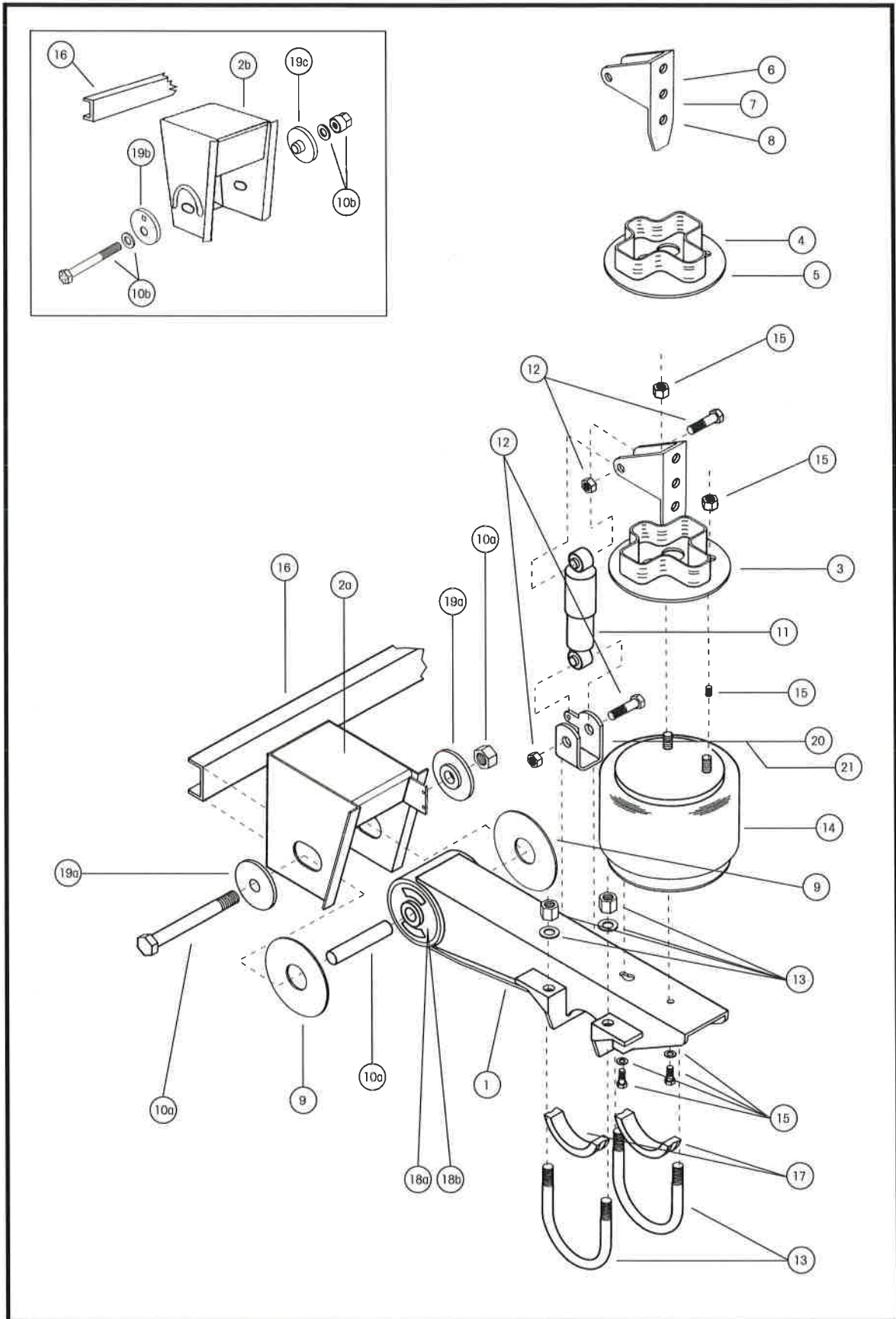
ABBREVIATIONS:

Std: standard travel shock absorber
 Ltd: limited up travel (jounce) shock absorber
 Tltd: tilted placement of the frame bracket

Tprd: tapered frame bracket
 Exr: extended rebound suspension
 Fcm: frame clearance model

PARTS LIST

MODEL HT300T (TOP MOUNT STYLE)



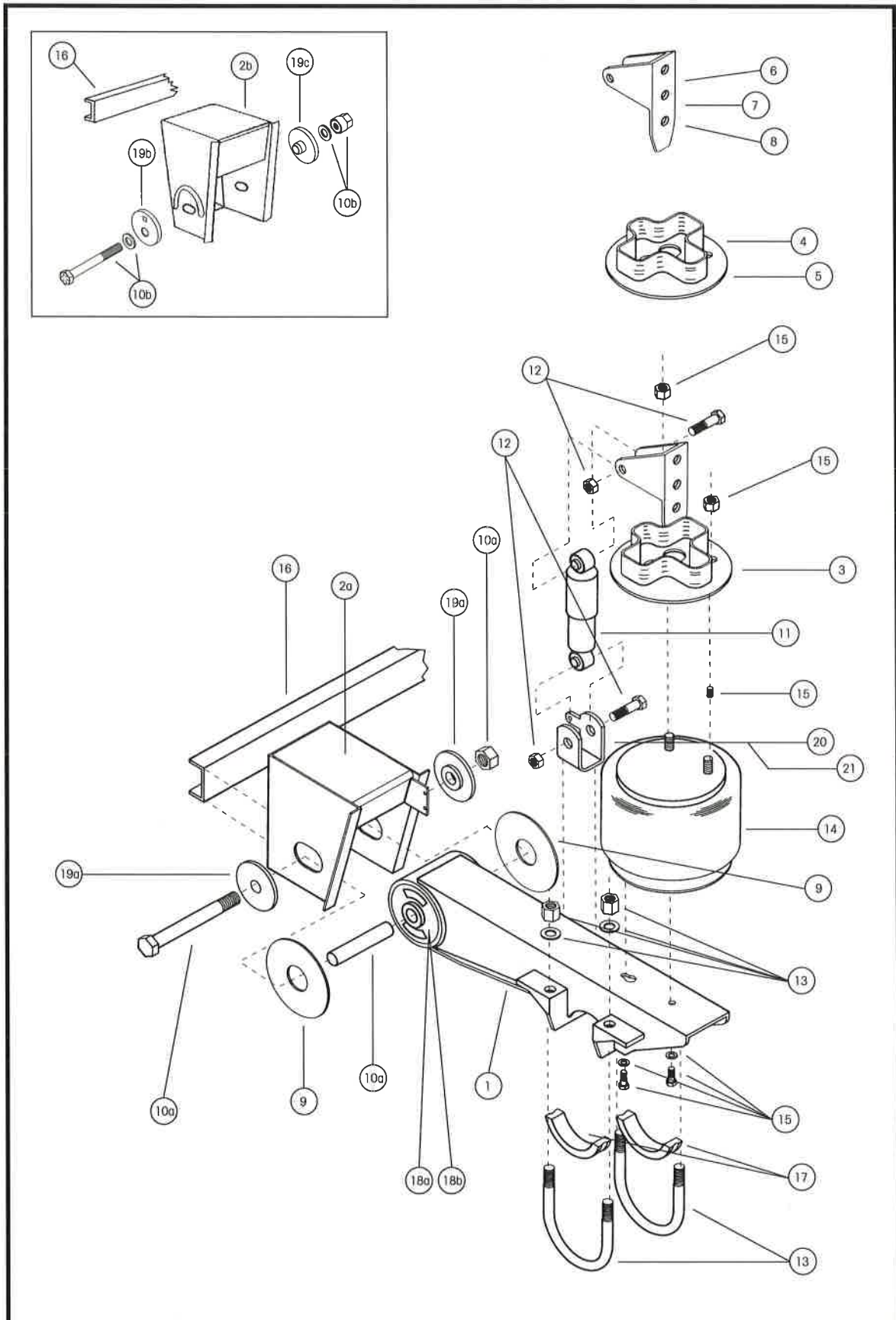
**MODEL HT300T (TOP MOUNT STYLE)**

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT300 ? or N-HT300 ?)		
1	BEAM ASSEMBLY					
	Roadside	D-20186-1	1	ALL		
	Curbside	D-20186-2	1	ALL		
2	FRAME BRACKET					
2a	Wingless, Welded Alignment, Roadside, Weld-on					
		C-20196-1	1	-15-001	-15-005	-15-007
		C-20197-1	1	-17-001	-17-007	
		C-20286-1	1	-15-016		
		C-20065-1	1	-17-003	-17-012	
	Wingless, Welded Alignment, Curbside, Weld-on					
		C-20196-2	1	-15-001	-15-005	-15-007
		C-20197-2	1	-17-001	-17-007	
		C-20286-2	1	-15-016		
		C-20065-2	1	-17-003	-17-012	
	Wingless, Welded Alignment, Roadside, Bolt-on					
		D-20190-1	1	-17-002	-19-004	
		C-20189-1	1	-15-002	-15-011	
		C-21122-1	1	-15-025		
		D-22281-1	1	-17-022		
		C-20008-1	1	-17-004		
	Wingless, Welded Alignment, Curbside, Bolt-on					
		D-20190-2	1	-17-002	-19-004	
		C-20189-2	1	-15-002	-15-011	
		C-21122-2	1	-15-025		
		D-22281-2	1	-17-022		
		C-20008-2	1	-17-004		
2b	Wingless, QUIK-ALIGN®, Roadside, Weld-on					
		C-23790-1	1	TB15-001		
	Wingless, QUIK-ALIGN®, Curbside, Weld-on					
		C-23790-2	1	TB15-001		
3	AIR SPRING/SHOCK MOUNT					
	Roadside					
		C-20199-1	1	-15-001	TB15-001	-15-005
				-15-016		
		C-20191-1	1	-17-001	-17-002	-17-022
		C-20188-1	1	-15-002		
		C-20195-1	1	-17-003	-17-004	
		C-20708-1	1	-19-004		
	Curbside					
		C-20199-2	1	-15-001	TB15-001	-15-005
				-15-016		
		C-20191-2	1	-17-001	-17-002	-17-022
		C-20188-2	1	-15-002		
		C-20195-2	1	-17-003	-17-004	
		C-20708-2	1	-19-004		
4	AIR SPRING SPACER ASSEMBLY					
	Roadside					
		C-20329-1	1	-17-007		
		C-20309-1	1	-17-012		
	Curbside					
		C-20329-2	1	-17-007		
		C-20309-2	1	-17-012		
5	AIR SPRING PLATE	C-20192	2	-15-007		
6	UPPER SHOCK CLEVIS¹	S-2592	2	-15-007	-17-007	-17-012
7	UPPER SHOCK BRACKET					
	Roadside					
		C-21797-1	1	-15-025		
	Curbside					
		C-21797-2	1	-15-025		

¹ Picture depicted may not resemble all models.

PARTS LIST

MODEL HT300T (TOP MOUNT STYLE) cont.



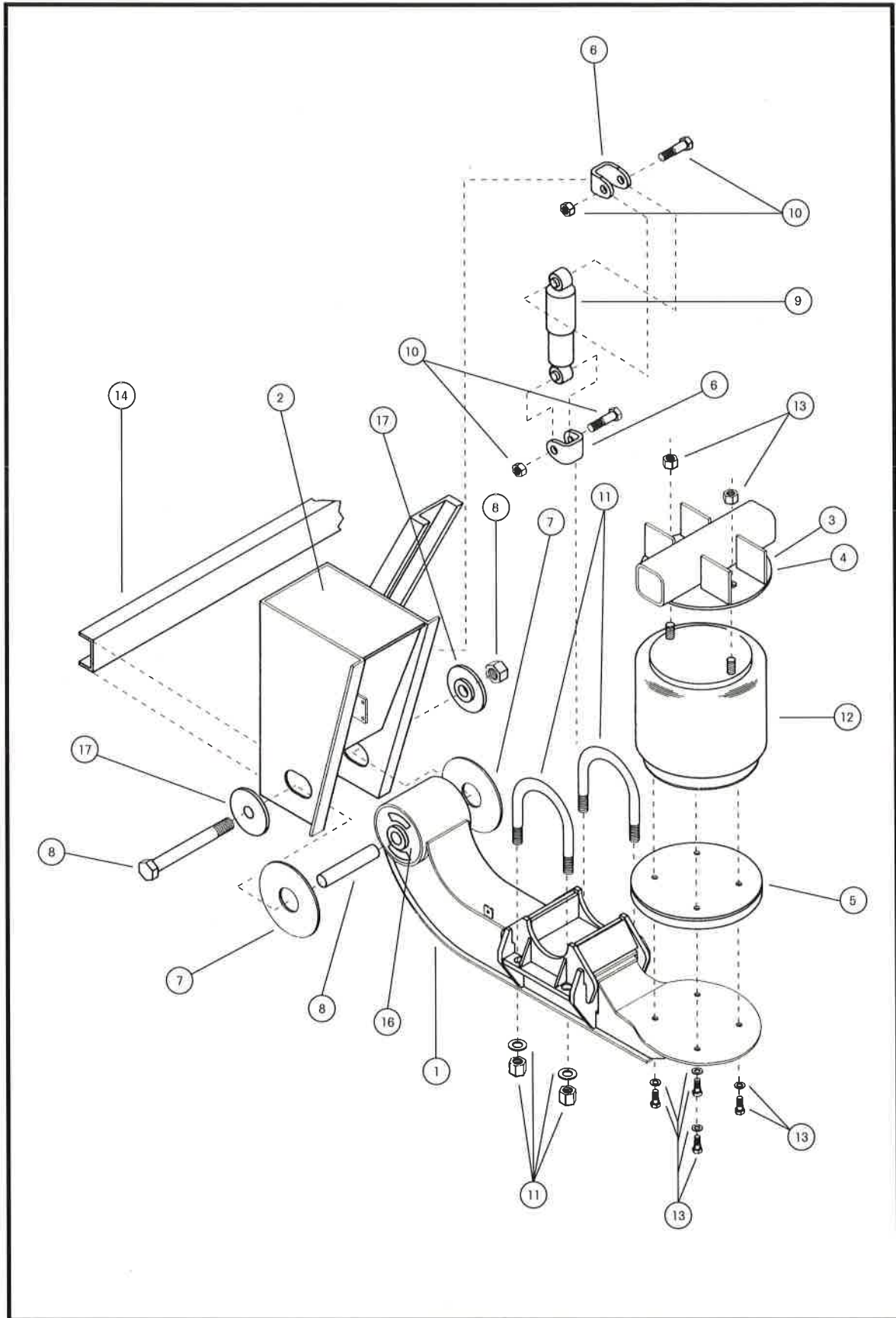
**MODEL HT300T (TOP MOUNT STYLE) cont.**

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT300 ? or N-HT300 ?)
8	SHOCK BRACKET ASSEMBLY	S-9002	2	-15-011
9	BUSHING WEAR PAD	S-11613	4	ALL
10	PIVOT BOLT KIT			
10a	Welded Alignment	S-3646	2	-15-001 -15-002 -15-005 -15-007 -15-011 -15-016 -15-025 -17-001 -17-002 -17-003 -17-004 -17-007 -17-012 -17-022 -19-004
10b	QUIK-ALIGN®	S-21052	2	TB15-001
11	SHOCK ABSORBER	S-20126	2	-15-001 TB15-001 -15-002 -15-005 -15-016 -15-025 -17-001 -17-002 -17-003 -17-004 -17-022 -19-004
		S-2160	2	-15-007 -15-011 -17-007 -17-012
12	SHOCK ABSORBER BOLT KIT	S-20031/2	2	-15-001 TB15-001 -15-002 -15-005 -15-016 -15-025 -17-001 -17-002 -17-003 -17-004 -17-022 -19-004
		S-2157/2	2	-15-007 -15-011 -17-007 -17-012
13	U-BOLT KIT	S-20032/4	4	ALL
14	AIR SPRING	S-4771	2	ALL
15	AIR SPRING BOLT KIT	S-4903/2	2	ALL
16	FRAME BRACKET CHANNEL	A-1631-19	1	-15-001 TB15-001 -15-002 -15-005 -15-007 -15-011 -15-025 -17-001 -17-002 -17-003 -17-004 -17-007 -17-012 -17-022 -19-004
17	AXLE SPACER	S-20701	4	ALL
18	TRI-FUNCTIONAL® II BUSHING KIT ²			
18a	Welded Alignment	A-6914	2	-15-001 -15-002 -15-005 -15-007 -15-011 -15-016 -15-025 -17-001 -17-002 -17-003 -17-004 -17-007 -17-012 -17-022 -19-004
18b	QUIK-ALIGN®	S-21166	2	TB15-001
19	ALIGNMENT COLLARS			
19a	Welded Alignment	S-2770	4	-15-001 -15-002 -15-005 -15-007 -15-011 -15-016 -15-025 -17-001 -17-002 -17-003 -17-004 -17-007 -17-012 -17-022 -19-004
19b	Eccentric, QUIK-ALIGN®	S-20925	2	TB15-001
19c	Concentric, QUIK-ALIGN®	S-20924	2	TB15-001
20	LOWER SHOCK CLEVIS ³	C-20069	2	-15-001 -15-002 -15-005 -15-016 -15-025 -17-001 -17-002 -17-003 -17-004 -17-022 -19-004 TB15-001
21	LOWER SHOCK BRACKET	S-2723	2	-17-007 -17-012

² The Tri-Functional® II Bushing Kit includes Item #10 (Pivot Bolt Kit) and Item #9 (Bushing Wear Pad). Bushing Tool, S-21307, is required to correctly re-bush the suspension.

³ Lower Shock Clevis is included when ordering Item #1 (Beam Assembly).

MODEL HT300U (UNDERSLUNG STYLE)



**MODEL HT300U (UNDERSLUNG STYLE)**

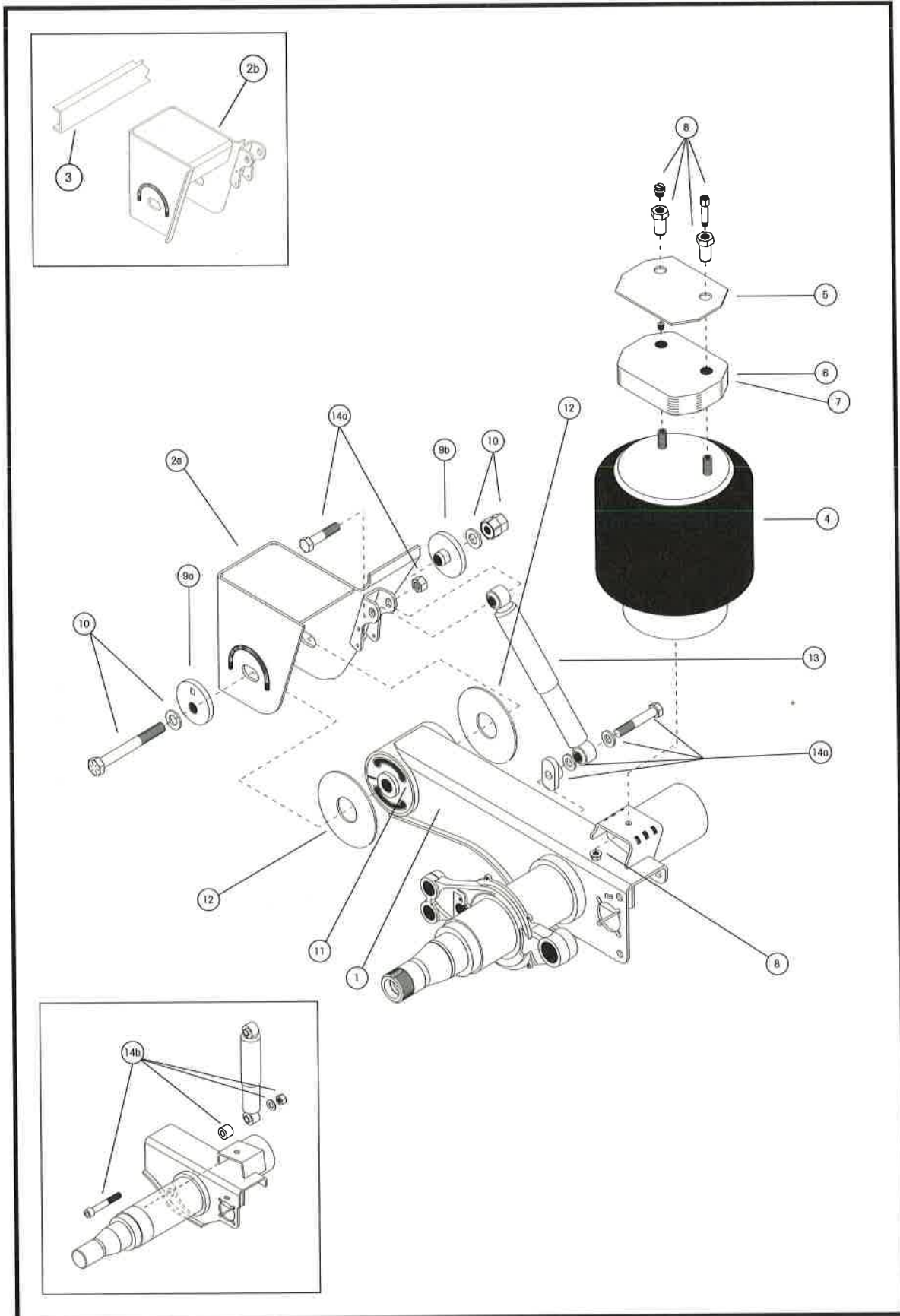
ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HT300U ?)			
1	BEAM ASSEMBLY						
	Roadside	C-20252-1	1	ALL			
	Curbside	C-20252-2	1	ALL			
2	FRAME BRACKET						
	Wingless, Welded Alignment, Roadside, Weld-on	D-20268-1	1	-9-001			
		D-20269-1	1	-12-001			
		D-20270-1	1	-14-001			
		D-20271-1	1	-17-001			
	Wingless, Welded Alignment, Curbside, Weld-on	D-20268-2	1	-9-001			
		D-20269-2	1	-12-001			
		D-20270-2	1	-14-001			
		D-20271-2	1	-17-001			
	3	AIR SPRING SPACER ASSEMBLY (Upper)	C-20274	2	-14-001		
			C-20275	2	-17-001		
	4	AIR SPRING PLATE	A-1250	2	-9-001	-12-001	
5	AIR SPRING SPACER ASSEMBLY (Lower)	A-20279	2	-12-001			
6	SHOCK CLEVIS¹	S-2592	4	ALL			
7	BUSHING WEAR PAD	S-11613	4	ALL			
8	PIVOT BOLT KIT (Welded Alignment)	S-3646	2	ALL			
9	SHOCK ABSORBER	S-20126	2	ALL			
10	SHOCK ABSORBER BOLT KIT	S-2157/2	2	ALL			
11	U-BOLT KIT	S-3650/4	4	ALL			
12	AIR SPRING	S-3830	2	ALL			
13	AIR SPRING BOLT KIT	S-1981/2	2	-9-001	-14-001	-17-001	
		S-20313/2	2	-12-001			
14	FRAME BRACKET CHANNEL	A-1631-19	1	-9-001	-12-001	-17-001	
15	FRAME BRACKET BRACE	B-2347-6	2	-14-001	-17-001		
16	TRI-FUNCTIONAL[®] II BUSHING KIT²						
	(Welded Alignment)	A-6914	2	ALL			
17	ALIGNMENT COLLARS (Welded Alignment)	S-2770	4	ALL			

¹ Shock Clevis is included when ordering Item #1 (Beam Assembly) and Item #2 (Frame Bracket).

² The Tri-Functional[®] II Bushing Kit includes Item #8 (Pivot Bolt Kit) and Item #7 (Bushing Wear Pad). Bushing Tool, S-21307, is required to correctly re-bush the suspension.

PARTS LIST — SUSPENSION AND AXLE COMPONENTS

MODEL AA230T/AA250T INTRAAX®





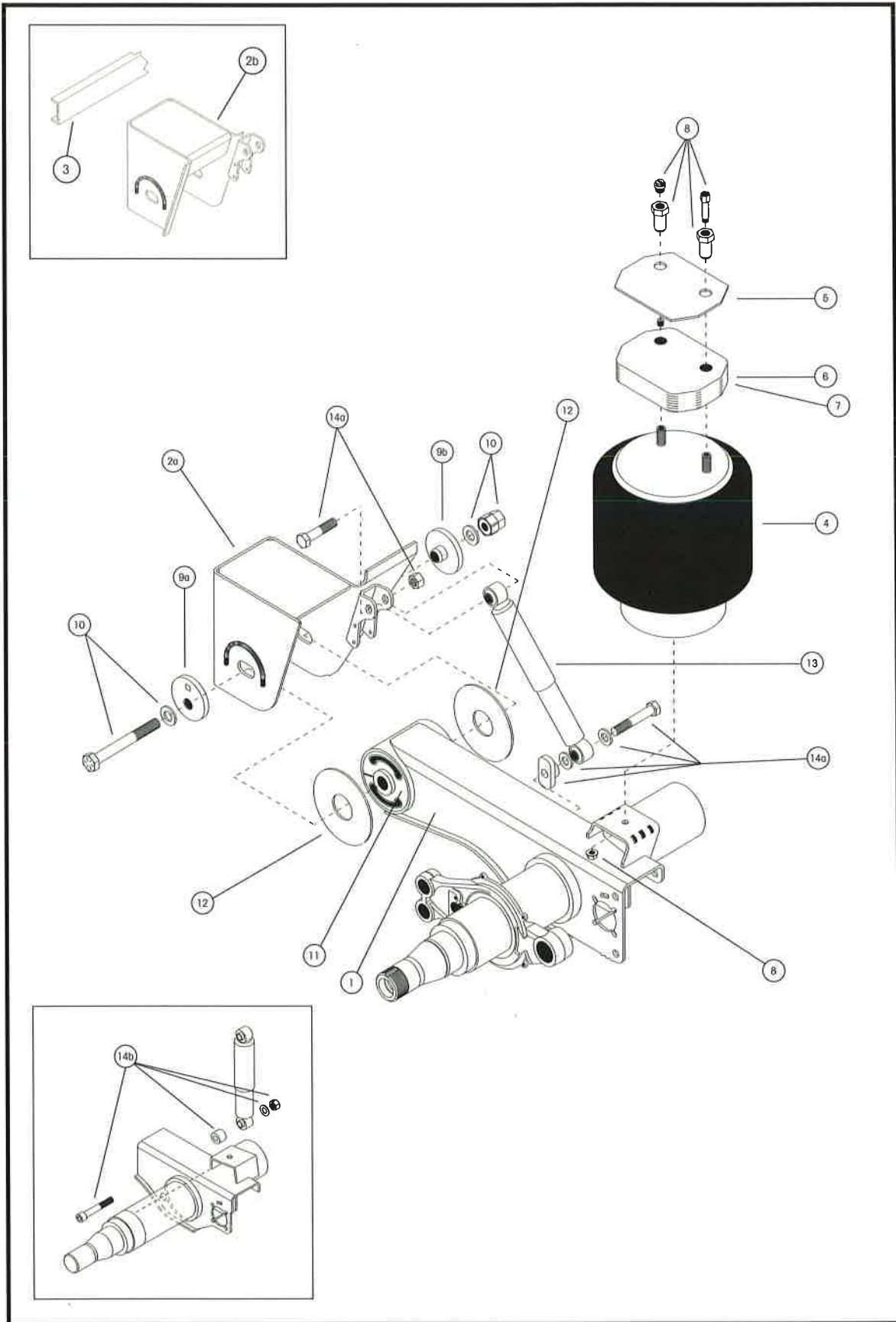
PARTS LIST — SUSPENSION AND AXLE COMPONENTS
MODEL AA230T/AA250T INTRAAX®

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
1	AXLE/BEAM WELDMENT			Contact Hendrickson for assistance
2	FRAME BRACKET ¹ (Standard Travel)			Contact Hendrickson for assistance
2a	8" Weld-on, Winged, Roadside	C-21028-1	1	13-1/2", 14" and 15" ride heights
	8" Weld-on, Winged, Slotted Top Plate, Roadside	C-21028-3	1	13-1/2", 14" and 15" ride heights
	10" Weld-on, Winged, Roadside	D-21082-1	1	16" and 17" ride heights
	8" Weld-on, Winged, Curbside	C-21028-2	1	13-1/2", 14" and 15" ride heights
	8" Weld-on, Winged, Slotted Top Plate, Curbside	C-21028-4	1	13-1/2", 14" and 15" ride heights
	10" Weld-on, Winged, Curbside	D-21082-2	1	16" and 17" ride heights
2b	8" Weld-on, Wingless, Roadside	D-21905-1	1	13-1/2", 14" and 15" ride heights
	10" Weld-on, Wingless, Roadside	D-21906-1	1	16" and 17" ride heights
	8" Weld-on, Wingless, Curbside	D-21905-2	1	13-1/2", 14" and 15" ride heights
	10" Weld-on, Wingless, Curbside	D-21906-2	1	16" and 17" ride heights
3	FRAME BRACKET CHANNEL	A-1631-19	1	
4	AIR SPRING			
	For AA230 Units Shipped Before 6/1/96	S-20900	2	Use to replace C-20900 air spring
	For AA230 Units Shipped After 6/1/96	S-21800	2	Use to replace C-21800 air spring
	For AA250 Units	S-21784	2	Includes disk assembly; use to replace C-20901 air spring
5	AIR SPRING MOUNTING PLATE			
	All Weld-on Applications	B-20905	2	13-1/2" through 17" ride heights only
	Various Bolt-on Applications	B-21145	2	Distance from outboard side of spacer to center of first trailer frame mounting bolt hole is 1-1/2"; 13-1/2" through 17" ride heights only
	Various Bolt-on Applications	B-22390	2	Distance from outboard side of spacer to center of first trailer frame mounting bolt hole is 2-1/4"; 13-1/2" through 17" ride heights only
	Various Bolt-on Applications	B-21715	2	Distance from outboard side of spacer to center of first trailer frame mounting bolt hole is 1-3/4"; 13-1/2" through 17" ride heights only
6	AIR SPRING SPACER			
	Plastic, 1-1/8" Thick Spacer	B-22510-1	2	Typically 15" ride height
	Plastic, 1-7/8" Thick Spacer	B-22510-2	2	Typically 16" ride height
	Plastic, 3-1/8" Thick Spacer	B-22510-3	2	Typically 17" ride height
7	AIR SPRING SPACER ASSEMBLY			
	Steel, Weld-on, 1-5/16" Thick Spacer Assembly	C-22302-2	2	Typically 15" ride height
	Steel, Weld-on, 2-1/16" Thick Spacer Assembly	C-22302-3	2	Typically 16" ride height
	Steel, Weld-on, 3-5/16" Thick Spacer Assembly	C-22302-4	2	Typically 17" ride height
	Steel, Weld-on, 4-1/16" Thick Spacer Assembly	C-22302-5	2	Typically 18" ride height
	Steel, Weld-on, 5-5/16" Thick Spacer Assembly	C-22302-6	2	Typically 19" ride height
	Steel, Bolt-on, 4-5/16" Thick Spacer Assembly	C-22738-1	2	Typically 18" ride height
	Steel, Bolt-on, 5-9/16" Thick Spacer Assembly	C-22738-2	2	Typically 19" ride height

¹ Others options exist including: standard travel bolt-on frame brackets; bolt-on frame brackets for limited travel and HIGH CONTROL applications; weld-on frame brackets for limited travel and HIGH CONTROL applications. HIGH CONTROL applications include dollies, full trailers and pups used in doubles or triples. Contact Hendrickson for assistance in determining a part number for the above applications.

PRIMARY SUSPENSIONS

MODEL AA230T/AA250T INTRAAX® cont.





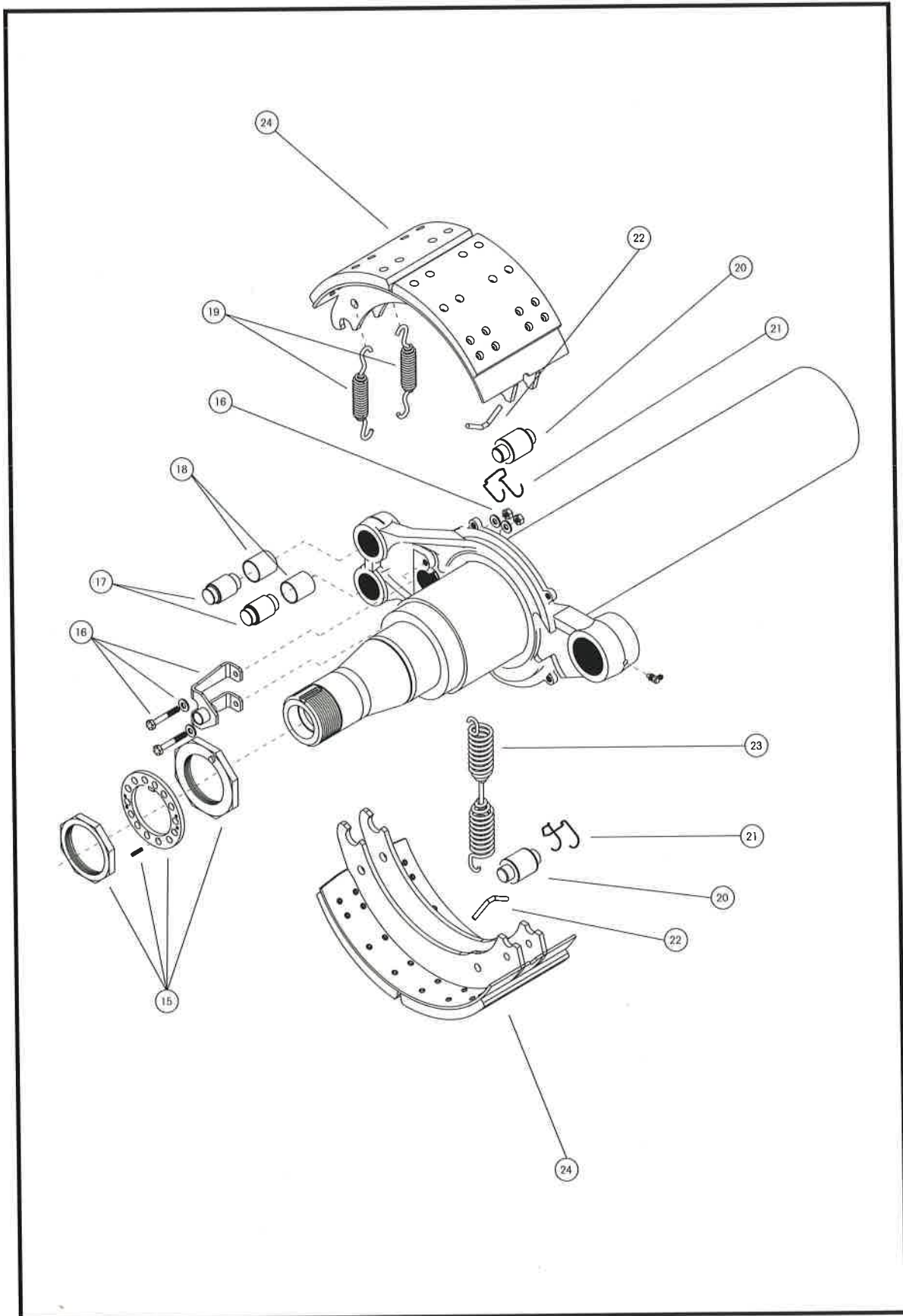
PARTS LIST — SUSPENSION AND AXLE COMPONENTS
MODEL AA230T/AA250T INTRAAX® cont.

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
8	AIR SPRING MOUNTING KIT² (Per Air Spring)			
		S-22619/2	2	For units with no spacer or with 1- ⁵ / ₁₆ " 2- ¹ / ₁₆ " [*] , 3- ⁵ / ₁₆ " [*] , 4- ¹ / ₁₆ " [*] , 4- ⁵ / ₁₆ " [*] , 5- ⁵ / ₁₆ " [*] or 5- ⁹ / ₁₆ " thick spacer assemblies
		S-22630/2	2	For units with a 1- ¹ / ₈ " thick spacer
		S-22631/2	2	For units with a 1- ⁷ / ₈ " thick spacer
		S-22632/2	2	For units with a 3- ¹ / ₈ " thick spacer
9	ALIGNMENT COLLARS			
9a	Eccentric, QUIK-ALIGN®	S-20925	2	Pivot bolt hole is offset from center of collar
9b	Concentric, QUIK-ALIGN®	S-20924	2	Pivot bolt hole is in center of collar
10	QUIK-ALIGN® PIVOT BOLT KIT²	S-21052	2	Includes bolt, TORQ-RITE® Nut and washers
11	QUIK-ALIGN® PIVOT BUSHING KIT²			
	Standard	S-21166	2	Includes bushing, pivot bolt kit, wear pads and lube
	High Control	S-24112	2	Includes bushing, pivot bolt kit, wear pads and lube
12	BUSHING WEAR PAD			
	Standard	S-11613	4	Four (4) required per axle
	High Control	B-21099	4	Four (4) required per axle
13	SHOCK ABSORBER³			
	Standard Duty	S-23566	2	Use to replace A-20002 or B-23566 shock absorbers
	Extended Service	S-24125	2	Use to replace A-20126 or B-24125 shock absorbers
	Extended Service, High Damping	S-24023	2	Use to replace B-21553 or B-24023 shock absorbers
	Limited Rebound	S-23361	2	Use to replace B-22345 or B-23361 shock absorbers
14	SHOCK ABSORBER BOLT KIT²			
14a	For Units Shipped After 8/11/95	S-24021 ⁴	2	One (1) required per shock
14b	For Units Shipped Before 8/11/95	S-20896/2	2	One (1) required per shock

² See AA230T/AA250T INTRAAX® Kit Components Section or Service Kits Section for kit breakdown.

³ Other options exist. Contact Hendrickson for assistance.

⁴ Picture depicted may not resemble all models. This kit contains components necessary to repair AA230T/250T INTRAAX® models manufactured after 8/11/95.





PARTS LIST — BRAKE AND SPINDLE COMPONENTS
MODEL AA230T/AA250T INTRAAX® cont.

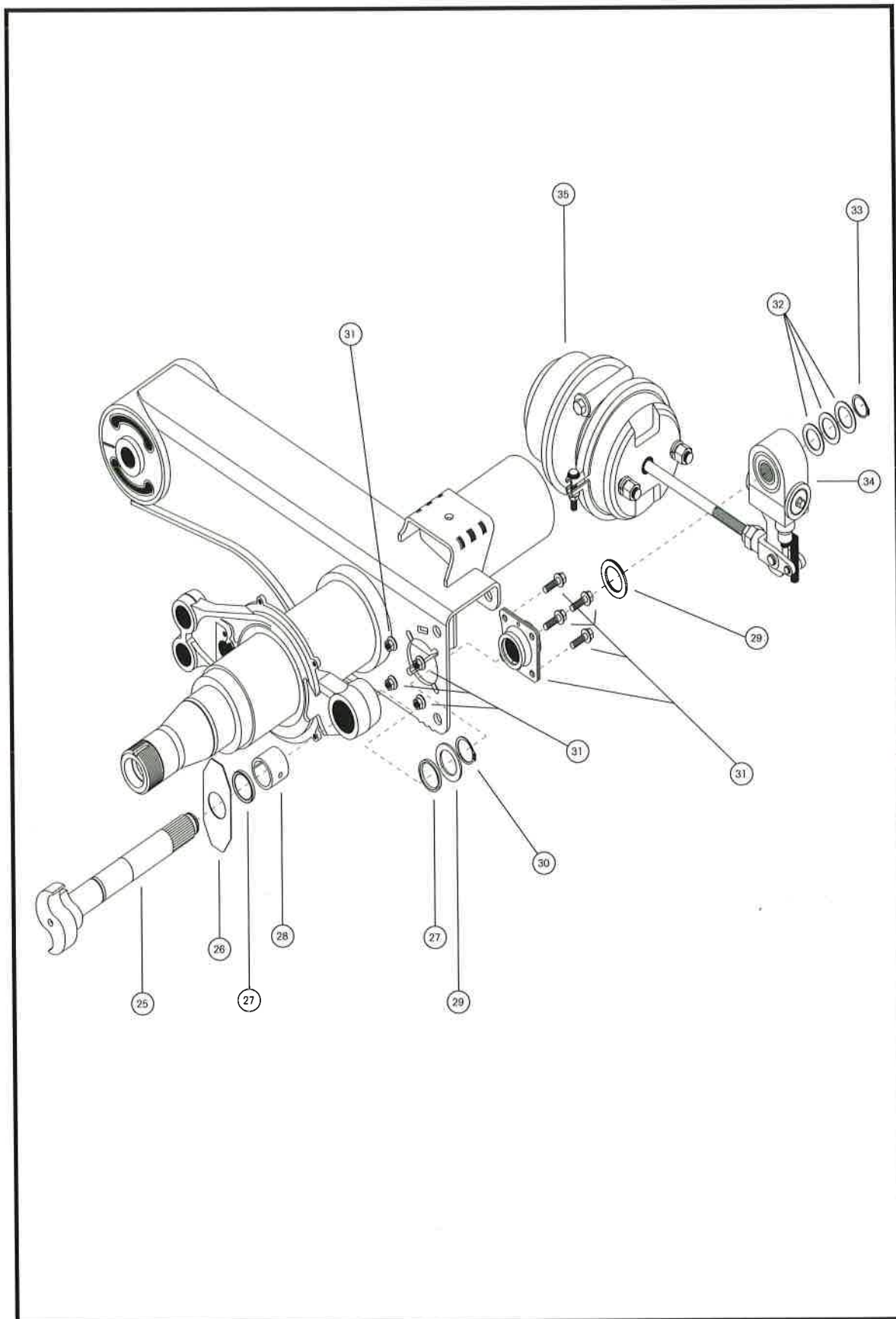
ITEM	DESCRIPTION	PART NO.	QTY	NOTE
15	AXLE NUT KIT²			
	HN Spindle Type	S-20492/2	2	Includes inner axle nut, outer axle nut, lock washer and set screw
	HP Spindle Type	S-20475/2	2	Includes inner axle nut, outer axle nut, lock washer and set screw
16	ABS BRACKET KIT²			
	HN Spindle Type	S-21064	1	Includes sensor bracket, bolts, lock nuts and flat washers
	HP Spindle Type	S-21070	1	Includes sensor bracket, bolts, lock nuts and flat washers
17	ANCHOR PIN⁵			Included in minor overhaul brake kits and major overhaul brake kits ²
18	ANCHOR PIN BUSHING⁵			Included in minor overhaul brake kits and major overhaul brake kits ²
19	BRAKE RETAINING SPRING⁵			Included in minor overhaul brake kits and major overhaul brake kits ²
20	BRAKE SHOE ROLLER⁵			Included in brake shoe kits, minor overhaul brake kits and major overhaul brake kits ²
21	ROLLER RETAINER⁵			Included in brake shoe kits, minor overhaul brake kits, major overhaul brake kits, axle S-cam major overhaul kits and wheel S-cam major overhaul kits ²
22	RETURN SPRING PIN⁵			Included in brake shoe kits, minor overhaul brake kits and major overhaul brake kits ²
23	BRAKE RETURN SPRING⁵			Included in minor overhaul brake kits and major overhaul brake kits ²
24	BRAKE SHOE⁵			
	16-1/2" x 7" Standard Service			
	Brake Shoe Kit ²	S-21266-1 ³	2	ABEX 3030-197, FMSI 4515
	Major Overhaul Brake Kit ²	S-21184-1 ³	2	ABEX 3030-197, FMSI 4515
	16-1/2" x 7" HXS™			
	Brake Shoe Kit ²	S-23750-1	2	ABEX 3030-197, FMSI 4707
		S-23750-3	2	ABEX 931-162, FMSI 4707
	Major Overhaul Brake Kit ²	S-23753-1	2	ABEX 3030-197, FMSI 4707
		S-23753-3	2	ABEX 931-162, FMSI 4707
	16-1/2" x 8-5/8" HXS™			
	Brake Shoe Kit ²	S-23751-1	2	ABEX 3030-197, FMSI 4711
		S-23751-3	2	ABEX 931-162, FMSI 4711
	Major Overhaul Brake Kit ²	S-23754-1	2	ABEX 3030-197, FMSI 4711
		S-23754-3	2	ABEX 931-162, FMSI 4711

² See AA230T/AA250T INTRAAX® Kit Components Section or Service Kits Section for kit breakdown.

³ Other options exist. Contact Hendrickson for assistance.

⁵ Not sold separately.

MODEL AA230T/AA250T INTRAAX® cont.





PARTS LIST — S-CAM AND SLACK ADJUSTER COMPONENTS
MODEL AA230T/AA250T INTRAAX® cont.

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
25	S-CAM			
	Right Hand, 28 Spline Standard	S-20806-1R	1	
	Right Hand, 10 Spline Standard	S-21717-1R	1	Not for U.S. use
	Right Hand, 28 Spline HXS™	S-23347-1R	1	
	Left Hand, 28 Spline Standard	S-20806-1L	1	
	Left Hand, 10 Spline Standard	S-21717-1L	1	Not for U.S. use
	Left Hand, 28 Spline HXS™	S-23347-1L	1	
26	OUTER CAM WASHER ⁵			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ²
27	SPIDER SEAL ⁵			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ²
28	SPIDER CAMSHAFT BUSHING ⁵			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ²
29	S-CAM JOURNAL WASHER ⁵			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ²
30	SPIDER RETAINING RING ⁵			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ²
31	S-CAM SUPPORT BUSHING ASSEMBLY ⁵			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ²
32	SPLINE INNER WASHER ⁵			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ²
33	SPLINE RETAINING RING ⁵			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ²
34	SLACK ADJUSTER KITS (Per Wheel)			
	28 Spline, Gunite, 5-1/2"	S-21398-1	2	Includes unhanded autoslack, outer nut and inner sleeve
	28 Spline, Gunite, 6"	S-21398-2	2	Includes unhanded autoslack, outer nut and inner sleeve
	28 Spline, Haldex, 5-1/2"	S-21399-1	2	Includes unhanded autoslack, anchor stud, nut and slack adjuster clevis assembly
	28 Spline, Haldex, 6"	S-21399-2	2	Includes unhanded autoslack, anchor stud, nut and slack adjuster clevis assembly
	10 Spline, Gunite, 5-1/2"	S-15191-1	2	Includes unhanded autoslack, outer nut and inner sleeve; not for U.S. use
	10 Spline, Gunite, 6"	S-15191-2	2	Includes unhanded autoslack, outer nut and inner sleeve; not for U.S. use
	10 Spline, Haldex, 5-1/2"	S-15192-1	2	Includes unhanded autoslack, anchor stud, nut and slack adjuster clevis assembly; not for U.S. use
	10 Spline, Haldex, 6"	S-15192-2	2	Includes unhanded autoslack, anchor stud, nut and slack adjuster clevis assembly; not for U.S. use
35	BRAKE CHAMBER (11" from mounting face to center of clevis pin)			
	MGM 30/30	S-20837-1	2	
	MGM 30/30, LTRT, Long Stroke	C-24225	2	
	MGM 30/30, LTRT	C-24246	2	
	MGM 30/30, Long Stroke	C-24247-1	2	
	Haldex 30/30	S-20837-2	2	
	TSE 30/30	S-20837-3	2	
	Carlisle 30/30	C-20837-4	2	
36	CLAMP-ON DUST SHIELD	S-23579/2	2	Not shown

² See AA230T/AA250T INTRAAX® Kit Components Section or Service Kits Section for kit breakdown.

⁵ Not sold separately.

PARTS LIST — KIT COMPONENTS

MODEL AA230T/AA250T INTRAAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
AIR SPRING MOUNTING KITS			
8	NO SPACER OR WITH 1-5/16", 2-1/16", 3-5/16", 4-1/16", 4-5/16", 5-5/16" OR 5-9/16" THICK SPACER ASSY (Per Air Spring)		S-22619/2
	1/4"-18 NPTF Plug	1	
	1/2"-13 Flanged Nut, Metal	1	
	3/4"-16 Flanged Nut, Metal	2	
8	1-1/8" THICK SPACER (Per Air Spring)		S-22630/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 1.10"	1	
	Extension Nut Fitting, .65"	2	
	1/2"-13 Flanged Nut, Metal	1	
8	1-7/8" THICK SPACER (Per Air Spring)		S-22631/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 2.10"	1	
	Extension Nut Fitting, 1.73"	2	
	1/2"-13 Flanged Nut, Metal	1	
	Plug	1	
8	3-1/8" THICK SPACER (Per Air Spring)		S-22632/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 3.10"	1	
	Extension Nut Fitting, 2.65"	2	
	1/2"-13 Flanged Nut, Metal	1	
	Plug	1	
PIVOT BOLT/BUSHING KITS			
10	QUIK-ALIGN® PIVOT BOLT KIT (Per Hanger)⁶		S-21052
	7/8" Hardened Flat Washer	2	
	7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
	TORQ-RITE® Nut	1	
11	QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)⁶		S-21166
	7/8" Hardened Flat Washer	2	
	7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
	TORQ-RITE® Nut	1	
	Bushing Wear Pad	2	
	TRI-FUNCTIONAL® II BUSHING	1	
	Lubricant Packet	1	

⁶ Best installed with QUIK-ALIGN® Impact Sockets S-20947 (3/4" Drive Impact) or S-21058 (1" Drive Impact).

**MODEL AA230T/AA250T INTRAAX® cont.**

ITEM	DESCRIPTION	QTY	PART NO.
SHOCK ABSORBER BOLT KITS			
14a	SHOCK ABSORBER BOLT KIT FOR UNITS		
	SHIPPED AFTER 8/11/95 (Per Shock)⁷		S-24021
	Shock Spacer – Zinc Coated	1	
	Shock Spacer Assembly	1	
	3/4"-10 x 3-1/2" Hex Head Bolt	1	
	3/4"-16 x 4-1/2" Hex Head Cap Screw	1	
	3/4" Hardened Flat Washer	2	
	3/4"-10 Lock Nut	2	
	3/4"-10 x 5-3/4" Shear Type Bolt	1	
	Shock Backing Plate	1	
14b	SHOCK ABSORBER BOLT KIT FOR UNITS		
	SHIPPED BEFORE 8/11/95 (Per Shock)		S-20896/2
	Shock Spacer – Zinc Coated	1	
	3/4"-10 x 3-1/2" Hex Head Bolt	1	
	3/4" Hardened Flat Washer	1	
	3/4"-10 Lock Nut	2	
	3/4"-10 x 5" Hex Socket Head Cap Screw	1	
AXLE NUT KITS			
15	HN SPINDLE TYPE AXLE NUT KIT (Per Wheel)		S-20492/2
	Inner Axle Nut	1	
	Outer Axle Nut	1	
	Lock Washer	1	
	8"-32 x 3/8" Set Screw	1	
15	HP SPINDLE TYPE AXLE NUT KIT (Per Wheel)		S-20475/2
	Inner Axle Nut	1	
	Outer Axle Nut	1	
	Lock Washer	1	
	8"-32 x 3/8" Set Screw	1	
ABS BRACKET KITS			
16	HN SPINDLE TYPE ABS BRACKET KIT (Per Wheel)		S-21064
	Sensor Bracket	1	
	1/4"-20 x 1-3/4" Grade 8, Hex Head Bolt	2	
	1/4"-20 Grade 8, Lock Nut	2	
	1/4" Flat Washer	4	
16	HP SPINDLE TYPE ABS BRACKET KIT (Per Wheel)		S-21070
	Sensor Bracket	1	
	1/4"-20 x 1-3/4" Grade 8, Hex Head Bolt	2	
	1/4"-20 Grade 8, Lock Nut	2	
	1/4" Flat Washer	4	

⁷ This kit contains components necessary to repair AA230T/AA250T INTRAAX® models shipped after 8/11/95. Shear type bolt best installed with E-20 socket, Hendrickson Part No. A-24303.

PARTS LIST — KIT COMPONENTS

MODEL AA230T/AA250T INTRAAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
BRAKE SHOE KITS			
BRAKE SHOE KIT (Per Wheel)⁸			S-21266-1
24	Lined Brake Shoe	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)⁸			S-23750-1
24	Lined Brake Shoe	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)⁸			S-23750-3
24	Lined Brake Shoe	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)⁸			S-23751-1
24	Lined Brake Shoe	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)⁸			S-23751-3
24	Lined Brake Shoe	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	
BRAKE OVERHAUL KITS			
ALL STANDARD BRAKES, MINOR OVERHAUL KIT (Per Wheel)			S-21183
17	Anchor Pin	2	
18	Anchor Pin Bushing	2	
19	Brake Retaining Spring	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	
23	Brake Return Spring	1	
ALL HXS™ BRAKES, MINOR OVERHAUL KIT (Per Wheel)			S-23752
17	Anchor Pin	2	
18	Anchor Pin Bushing	2	
19	Brake Retaining Spring	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	
23	Brake Return Spring	1	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁸			S-21184-1
17	Anchor Pin	2	
18	Anchor Pin Bushing	2	
23	Brake Return Spring	1	
19	Brake Retaining Spring	2	
24	Lined Brake Shoes	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	

⁸ See AA230T/AA250T INTRAAX® Brake and Spindle Components Section for brake lining description.

**MODEL AA230T/AA250T INTRAAX® cont.**

ITEM	DESCRIPTION	QTY	PART NO.
BRAKE OVERHAUL KITS (CONTINUED)			
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁸			S-23753-1
17	Anchor Pin	2	
18	Anchor Pin Bushing	2	
23	Brake Return Spring	1	
19	Brake Retaining Spring	2	
24	Lined Brake Shoes	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁸			S-23753-3
17	Anchor Pin	2	
18	Anchor Pin Bushing	2	
23	Brake Return Spring	1	
19	Brake Retaining Spring	2	
24	Lined Brake Shoes	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁸			S-23754-1
17	Anchor Pin	2	
18	Anchor Pin Bushing	2	
23	Brake Return Spring	1	
19	Brake Retaining Spring	2	
24	Lined Brake Shoes	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁸			S-23754-3
17	Anchor Pin	2	
18	Anchor Pin Bushing	2	
23	Brake Return Spring	1	
19	Brake Retaining Spring	2	
24	Lined Brake Shoes	2	
20	Brake Shoe Roller	2	
21	Roller Retainer	2	
22	Return Spring Pin	2	

⁸ See AA230T/AA250T INTRAAX® Brake and Spindle Components Section for brake lining description.

PARTS LIST — KIT COMPONENTS

MODEL AA230T/AA250T INTRAAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
BRAKE CONVERSION TO HXS™ KITS			
16-1/2" x 7", HXS™, ABEX 3030-197, FMSI 4707			S-23756-1
26	Outer Cam Washer	2	
23	Brake Return Spring	2	
24	Lined Brake Shoe	4	
20	Brake Shoe Roller	4	
21	Roller Retainer	4	
22	Return Spring Pin	4	
25	S-cam	2	
16-1/2" x 8-5/8" HXS™, ABEX 3030-197, FMSI 4711			S-23757-1
26	Outer Cam Washer	2	
23	Brake Return Spring	2	
24	Lined Brake Shoe	4	
20	Brake Shoe Roller	4	
21	Roller Retainer	4	
22	Return Spring Pin	4	
25	S-cam	2	
S-CAM OVERHAUL KITS			
AXLE S-CAM MAJOR OVERHAUL KIT FOR UNITS			
SHIPPED BEFORE 11/24/97 (Per Axle)			S-21181
30	Spider Retaining Ring	2	
33	Spline Retaining Ring	2	
29	S-cam Journal Washer	4	
28	Spider Camshaft Bushing	2	
26	Outer Cam Washer	2	
31	S-cam Support Bushing Assembly	2	
27	Spider Seal	4	
32	Spline Inner Washer	6	
21	Roller Retainer	2	
AXLE S-CAM MAJOR OVERHAUL KIT FOR UNITS			
SHIPPED AFTER 11/24/97 (Per Axle)			S-23974
30	Spider Retaining Ring	2	
33	Spline Retaining Ring	2	
29	S-cam Journal Washer	4	
28	Spider Camshaft Bushing	2	
26	Outer Cam Washer	2	
31	S-cam Support Bushing Assembly	2	
27	Spider Seal	4	
32	Spline Inner Washer	6	
21	Roller Retainer	2	

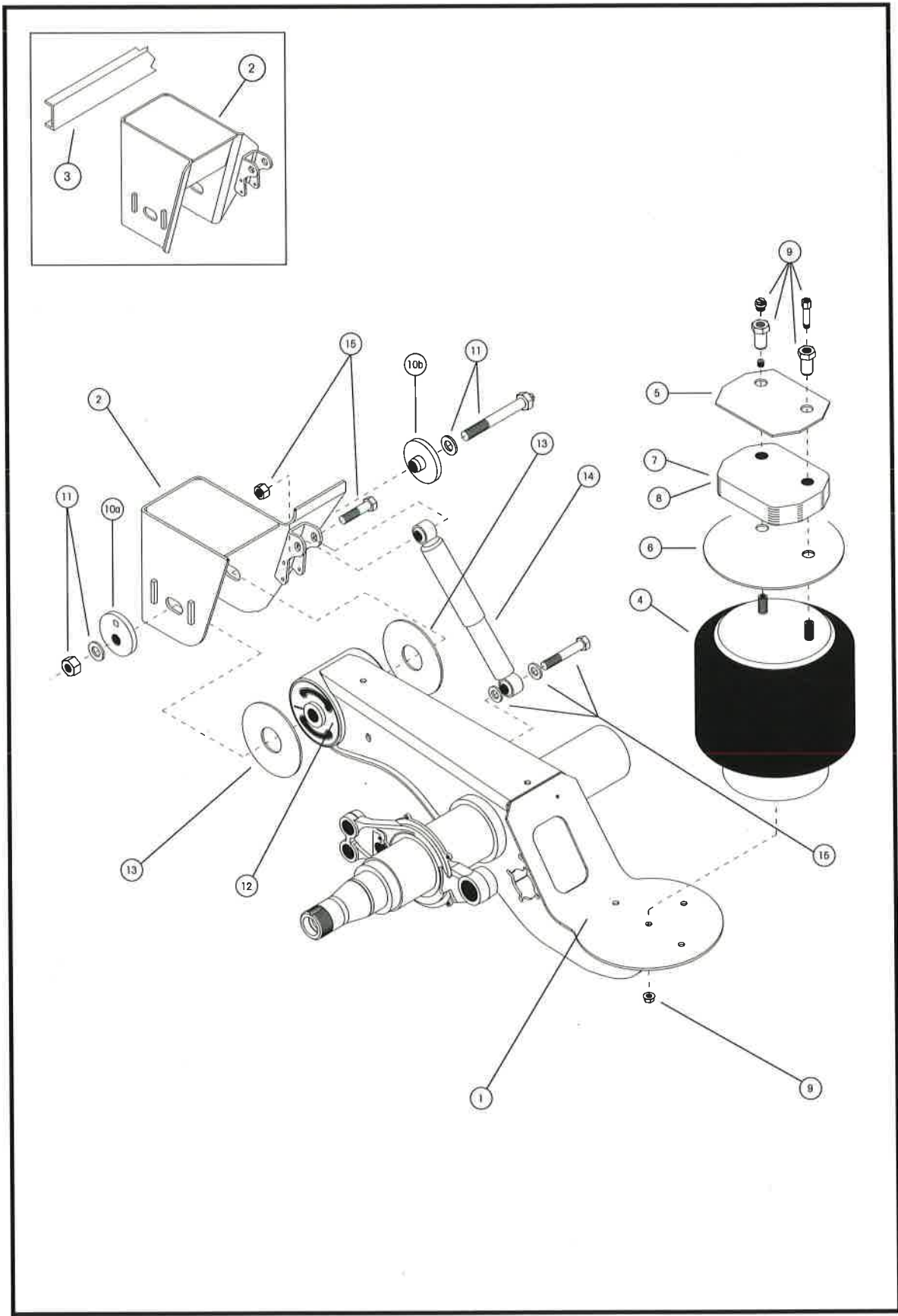
**MODEL AA230T/AA250T INTRAAX® cont.**

ITEM	DESCRIPTION	QTY	PART NO.
S-CAM OVERHAUL KITS (CONTINUED)			
WHEEL S-CAM MAJOR OVERHAUL KIT FOR UNITS			
SHIPPED BEFORE 11/24/97 (Per Wheel)			S-21181/2
30	Spider Retaining Ring	1	
33	Spline Retaining Ring	1	
29	S-cam Journal Washer	2	
28	Spider Camshaft Bushing	1	
26	Outer Cam Washer	1	
31	S-cam Support Bushing Assembly	1	
27	Spider Seal	2	
32	Spline Inner Washer	3	
21	Roller Retainer	1	
WHEEL S-CAM MAJOR OVERHAUL KIT FOR UNITS			
SHIPPED AFTER 11/24/97 (Per Wheel)			S-23974/2
30	Spider Retaining Ring	1	
33	Spline Retaining Ring	1	
29	S-cam Journal Washer	2	
28	Spider Camshaft Bushing	1	
26	Outer Cam Washer	1	
31	S-cam Support Bushing Assembly	1	
27	Spider Seal	2	
32	Spline Inner Washer	3	
21	Roller Retainer	1	

PARTS LIST — SUSPENSION AND AXLE COMPONENTS
MODEL AA230L/AA250L INTRAAX®



PRIMARY SUSPENSIONS



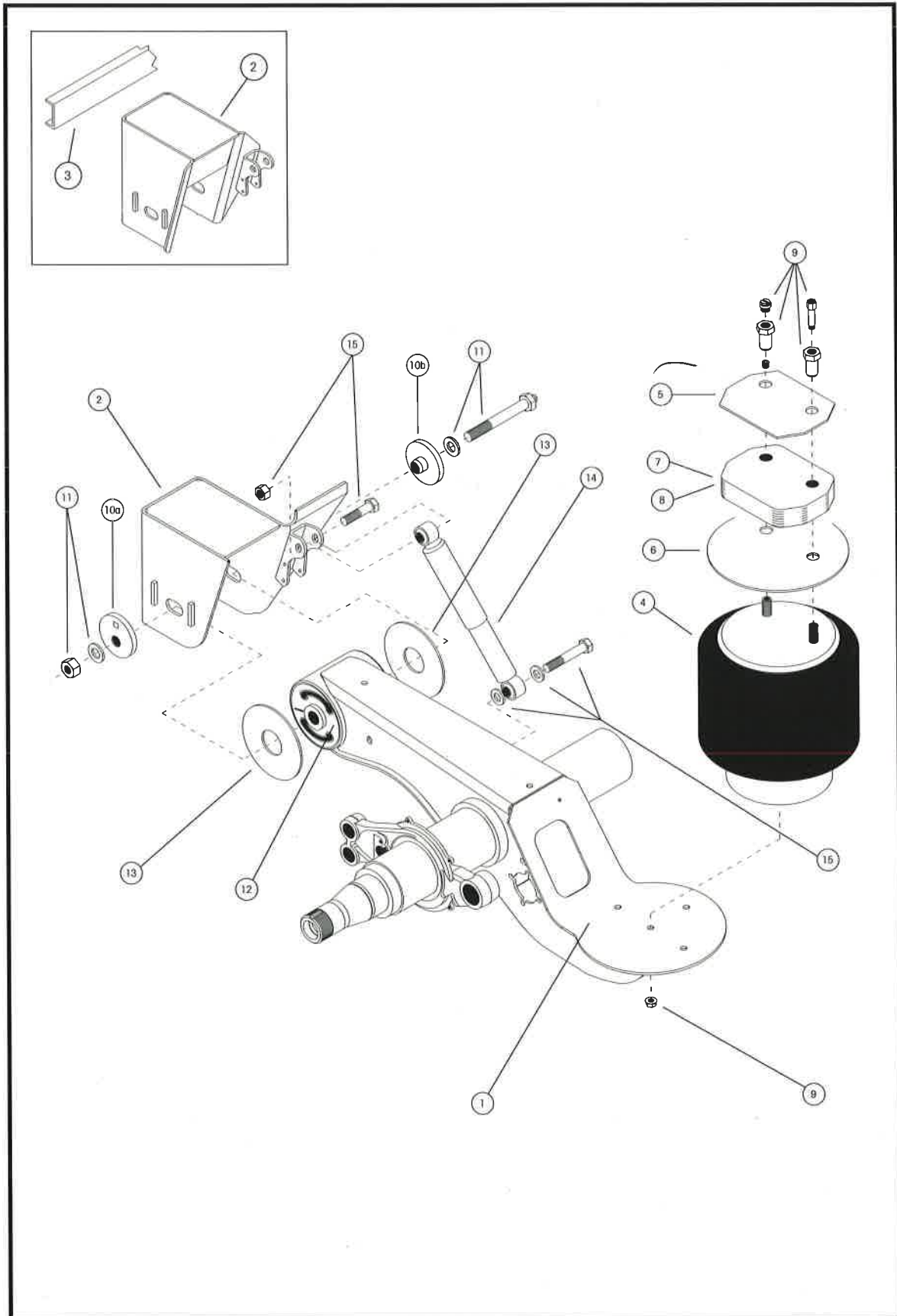


PARTS LIST — SUSPENSION AND AXLE COMPONENTS
MODEL AA230L/AA250L INTRAAX®

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
1	AXLE/BEAM WELDMENT			Contact Hendrickson for assistance
2	FRAME BRACKET			Contact Hendrickson for assistance
3	FRAME BRACKET CHANNEL	A-1631-19	1	
4	AIR SPRING			
	For AA230LA 6-1/2" through 8"			
	Ride Heights	S-23720	2	Use to replace C-23720 air spring
	For AA230LA 8-1/2" through 10"			
	Ride Heights	S-23613	2	Use to replace C-23613 air spring
	For AA230LA 10-1/2" through 21"			
	Ride Heights	S-23614	2	Use to replace C-23614 air spring
	For AA250LA 6-1/2" through 8"			
	Ride Heights	S-23721	2	Use to replace C-23721 air spring
	For AA250LA 8-1/2" through 10"			
	Ride Heights	S-23611	2	Use to replace C-23611 air spring
	For AA250LA 10-1/2" through 21"			
	Ride Heights	S-23612	2	Use to replace C-23612 air spring
5	AIR SPRING MOUNTING PLATE			
	Various Weld-on Applications, Octagonal	B-20905	2	Standard travel for 6-1/2" through 16" ride heights; Limited travel for 6-1/2" through 14" ride heights
	Various Weld-on Applications, 12" Round	B-23294	2	Standard travel for 6-1/2" through 16" ride heights; Limited travel for 6-1/2" through 14" ride heights
	Various Bolt-on Applications	B-21145	2	Distance from outboard side of spacer to center of first trailer frame mounting bolt hole is 1-1/2"; Standard travel for 6-1/2" through 16" ride heights; Limited travel for 6-1/2" through 14" ride heights
	Various Bolt-on Applications	B-22390	2	Distance from outboard side of spacer to center of first trailer frame mounting bolt hole is 2-1/4"; Standard travel for 6-1/2" through 16" ride heights; Limited travel for 6-1/2" through 14" ride heights
	Various Bolt-on Applications	B-21715	2	Distance from outboard side of spacer to center of first trailer frame mounting bolt hole is 1-3/4"; Standard travel for 6-1/2" through 16" ride heights; Limited travel for 6-1/2" through 14" ride heights
6	LOWER AIR SPRING PLATE	B-23294	2	Standard travel, weld-on and bolt-on applications for 9-1/2", 10" and 13" through 16" ride heights; Limited travel, weld-on and bolt-on applications for 8-1/2" through 14" ride heights
7	AIR SPRING SPACER			
	Plastic, 1-1/8" Thick Spacer	B-22510-1	2	
	Plastic, 1-7/8" Thick Spacer	B-22510-2	2	
	Plastic, 3-1/8" Thick Spacer	B-22510-3	2	
	Plastic, 3/4" Thick Spacer	B-22510-4	2	

PRIMARY SUSPENSIONS

MODEL AA230L/AA250L INTRAAX® cont.

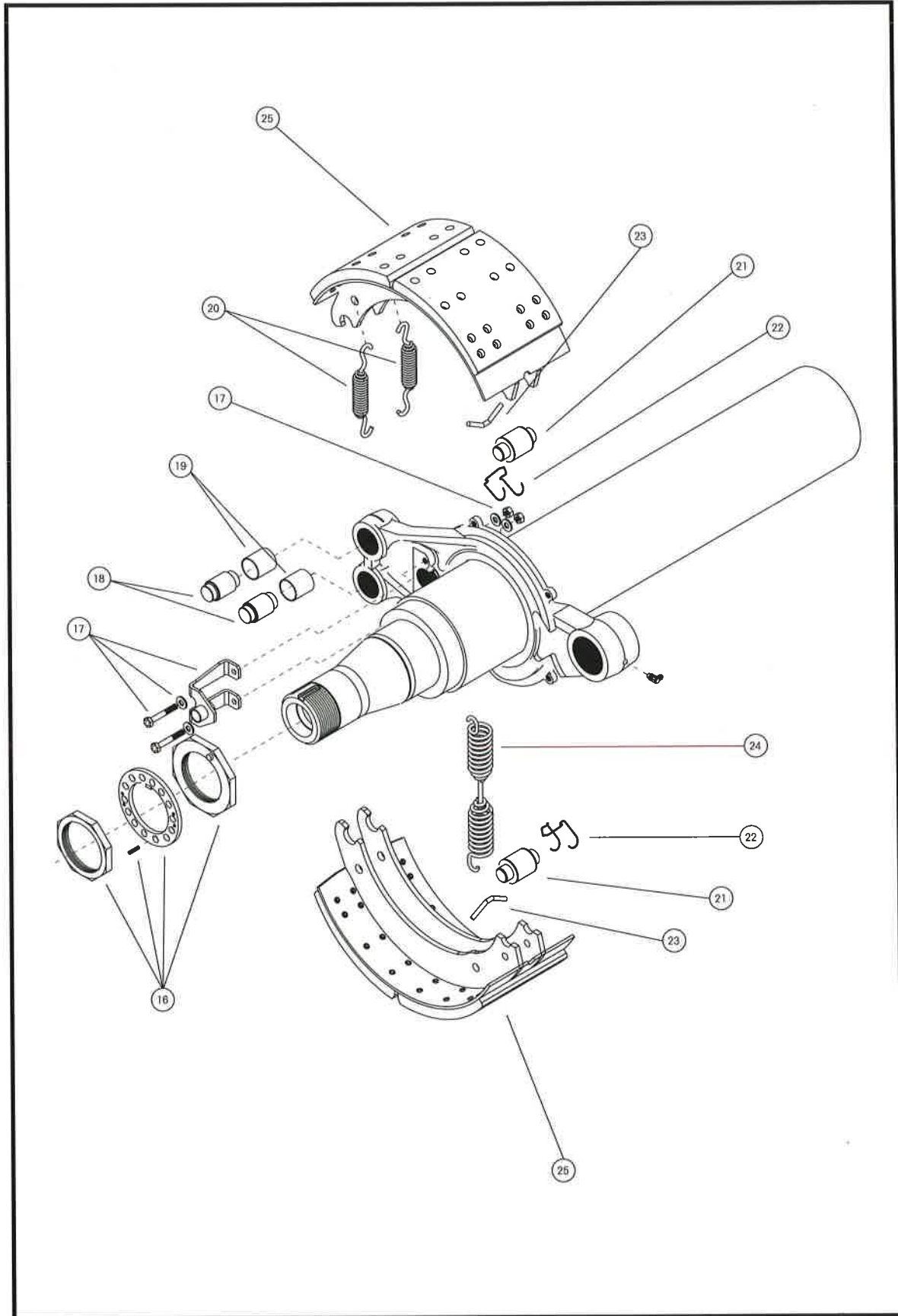




PARTS LIST — SUSPENSION AND AXLE COMPONENTS
MODEL AA230L/AA250L INTRAAX® cont.

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
8	AIR SPRING SPACER ASSEMBLY			
	Steel, Weld-on, 5- ⁵ / ₁₆ " Thick			
	Spacer Assembly	C-24077-6	2	
	Steel, Weld-on, 7- ⁵ / ₁₆ " Thick			
	Spacer Assembly	C-24077-8	2	
	Steel, Weld-on, 4- ¹³ / ₁₆ " Thick			
	Spacer Assembly	C-24077-9	2	
	Steel, Weld-on, 9- ¹ / ₄ " Thick			
	Spacer Assembly	C-24077-10	2	
	Steel, Weld-on, 10- ³ / ₄ " Thick			
	Spacer Assembly	C-24077-11	2	
	Steel, Bolt-on, 5- ⁹ / ₁₆ " Thick			
	Spacer Assembly	C-24079-2	2	
	Steel, Bolt-on, 7- ⁹ / ₁₆ " Thick			
	Spacer Assembly	C-24079-4	2	
	Steel, Bolt-on, 5- ¹ / ₁₆ " Thick			
	Spacer Assembly	C-24079-5	2	
	Steel, Bolt-on, 9- ¹ / ₂ " Thick			
	Spacer Assembly	C-24079-6	2	
	Steel, Bolt-on, 11" Thick			
	Spacer Assembly	C-24079-7	2	
9	AIR SPRING MOUNTING KIT¹ (Per Air Spring)			
		S-22619/2	2	For units with no spacer and all weld-on and bolt-on units with a steel spacer
		S-22630/2	2	For units with a 1- ¹ / ₈ " thick plastic spacer
		S-22631/2	2	For units with a 1- ⁷ / ₈ " thick plastic spacer
		S-22632/2	2	For units with a 3- ¹ / ₈ " thick plastic spacer
		S-22635/2	2	For units with a ³ / ₄ " thick plastic spacer
10	ALIGNMENT COLLARS			
10a	Eccentric, QUIK-ALIGN®	S-20925	2	Pivot bolt hole is offset from center of collar
10b	Concentric, QUIK-ALIGN®	S-20924	2	Pivot bolt hole is in center of collar
11	QUIK-ALIGN® PIVOT BOLT KIT ¹	S-24679	2	Includes shear type bolt, nut and washers
12	QUIK-ALIGN® PIVOT BUSHING KIT ¹	S-24691	2	Includes bushing, pivot bolt kit, wear pads and lube
13	BUSHING WEAR PAD	S-11613	4	Four (4) required per axle
14	SHOCK ABSORBER			
	Standard Duty, 6- ¹ / ₂ " through 8"			
	Ride Heights	S-22311	2	Use to replace B-22311 shock absorber
	Standard Duty, 8- ¹ / ₂ " through 10"			
	Ride Heights	S-23290	2	Use to replace B-23290 shock absorber
	Standard Duty, 10- ¹ / ₂ " through 15"			
	Ride Heights	S-23013	2	Use to replace B-23013 shock absorber
	Standard Duty, 15- ¹ / ₂ " through 21"			
	Ride Heights	S-23315	2	Use to replace B-23315 shock absorber
	Extended Service, High Damping, 6- ¹ / ₂ " through 8" Ride Heights	S-22312	2	Use to replace B-22312 shock absorber
	Extended Service, High Damping, 8- ¹ / ₂ " through 10" Ride Heights	S-23291	2	Use to replace B-23291 shock absorber
	Extended Service, High Damping, 10- ¹ / ₂ " through 15" Ride Heights	S-23014	2	Use to replace B-23014 shock absorber
	Extended Service, High Damping, 15- ¹ / ₂ " through 21" Ride Heights	S-23316	2	Use to replace B-23316 shock absorber
15	SHOCK ABSORBER BOLT KIT ¹	S-24757/2	2	One (1) required per shock

¹ See AA230L/AA250L INTRAAX® Kit Components Section or Service Kits Section for kit breakdown.





PARTS LIST — BRAKE AND SPINDLE COMPONENTS
MODEL AA230L/AA250L INTRAAX® cont.

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
16	AXLE NUT KIT¹			
	HN Spindle Type	S-20492/2	2	Includes inner axle nut, outer axle nut, lock washer and set screw
	HP Spindle Type	S-20475/2	2	Includes inner axle nut, outer axle nut, lock washer and set screw
17	ABS BRACKET KIT¹			
	HN Spindle Type	S-21064	1	Includes sensor bracket, bolts, lock nuts and flat washers
	HP Spindle Type	S-21070	1	Includes sensor bracket, bolts, lock nuts and flat washers
18	ANCHOR PIN²			Included in minor overhaul brake kits and major overhaul brake kits ¹
19	ANCHOR PIN BUSHING²			Included in minor overhaul brake kits and major overhaul brake kits ¹
20	BRAKE RETAINING SPRING²			Included in minor overhaul brake kits and major overhaul brake kits ¹
21	BRAKE SHOE ROLLER²			Included in brake shoe kits, minor overhaul brake kits and major overhaul brake kits ¹
22	ROLLER RETAINER²			Included in brake shoe kits, minor overhaul brake kits, major overhaul brake kits, axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
23	RETURN SPRING PIN²			Included in brake shoe kits, minor overhaul brake kits and major overhaul brake kits ¹
24	BRAKE RETURN SPRING²			Included in minor overhaul brake kits and major overhaul brake kits ¹
25	BRAKE SHOE²			
	16-1/2" x 7" Standard Service			
	Brake Shoe Kit ¹	S-21266-1 ³	2	ABEX 3030-197, FMSI 4515
	Major Overhaul Brake Kit ¹	S-21184-1 ³	2	ABEX 3030-197, FMSI 4515
	16-1/2" x 7" HXS™			
	Brake Shoe Kit ¹	S-23750-1	2	ABEX 3030-197, FMSI 4707
		S-23750-3	2	ABEX 931-162, FMSI 4707
	Major Overhaul Brake Kit ¹	S-23753-1	2	ABEX 3030-197, FMSI 4707
		S-23753-3	2	ABEX 931-162, FMSI 4707
	16-1/2" x 8-5/8" HXS™			
	Brake Shoe Kit ¹	S-23751-1	2	ABEX 3030-197, FMSI 4711
		S-23751-3	2	ABEX 931-162, FMSI 4711
	Major Overhaul Brake Kit ¹	S-23754-1	2	ABEX 3030-197, FMSI 4711
		S-23754-3	2	ABEX 931-162, FMSI 4711

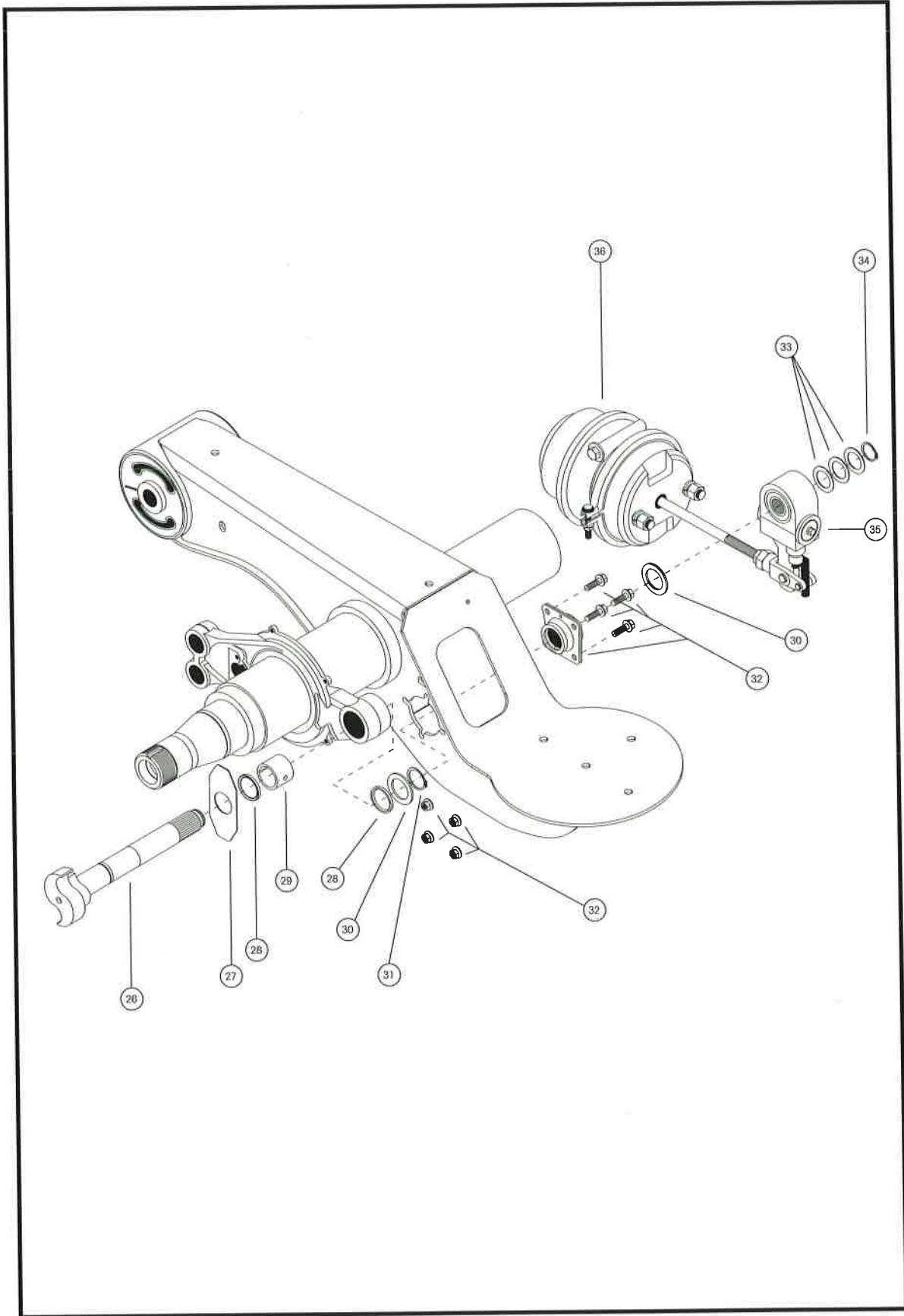
¹ See AA230L/AA250L INTRAAX® Kit Components Section or Service Kits Section for kit breakdown.

² Not sold separately.

³ Other options exist. Contact Hendrickson for assistance.

PRIMARY SUSPENSIONS

MODEL AA230L/AA250L INTRAAX® cont.





PARTS LIST — S-CAM AND SLACK ADJUSTER COMPONENTS
MODEL AA230L/AA250L INTRAAX® cont.

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
26	S-CAM			
	Right Hand, 28 Spline Standard	S-20806-1R	1	
	Right Hand, 10 Spline Standard	S-21717-1R	1	Not for U.S. use
	Right Hand, 28 Spline HXS™	S-23347-1R	1	
	Left Hand, 28 Spline Standard	S-20806-1L	1	
	Left Hand, 10 Spline Standard	S-21717-1L	1	Not for U.S. use
	Left Hand, 28 Spline HXS™	S-23347-1L	1	
27	OUTER CAM WASHER ²			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
28	SPIDER SEAL ²			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
29	SPIDER CAMSHAFT BUSHING ²			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
30	S-CAM JOURNAL WASHER ²			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
31	SPIDER RETAINING RING ²			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
32	S-CAM SUPPORT BUSHING ASSEMBLY ²			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
33	SPLINE INNER WASHER ²			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
34	SPLINE RETAINING RING ²			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
35	SLACK ADJUSTER KITS (Per Wheel)			
	28 Spline, Gunite, 5-1/2"	S-21398-1	2	Includes unhandled autoslack, outer nut and inner sleeve
	28 Spline, Gunite, 6"	S-21398-2	2	Includes unhandled autoslack, outer nut and inner sleeve
	28 Spline, Haldex, 5-1/2"	S-21399-1	2	Includes unhandled autoslack, anchor stud, nut and slack adjuster clevis assembly
	28 Spline, Haldex, 6"	S-21399-2	2	Includes unhandled autoslack, anchor stud, nut and slack adjuster clevis assembly
	10 Spline, Gunite, 5-1/2"	S-15191-1	2	Includes unhandled autoslack, outer nut and inner sleeve; not for U.S. use
	10 Spline, Gunite, 6"	S-15191-2	2	Includes unhandled autoslack, outer nut and inner sleeve; not for U.S. use
	10 Spline, Haldex, 5-1/2"	S-15192-1	2	Includes unhandled autoslack, anchor stud, nut and slack adjuster clevis assembly; not for U.S. use
	10 Spline, Haldex, 6"	S-15192-2	2	Includes unhandled autoslack, anchor stud, nut and slack adjuster clevis assembly; not for U.S. use
36	BRAKE CHAMBER (7" from mounting face to center of clevis pin)			
	MGM 30/30	C-24164-1	2	
	MGM 30/30, Long Stroke	C-24769	2	
	Haldex 30/30	C-24164-2	2	
	TSE 30/30	C-24164-3	2	
	Carlisle 30/30	C-24164-4	2	
37	CLAMP-ON DUST SHIELD		2	Not shown

¹ See AA230L/AA250L INTRAAX® Kit Components Section or Service Kits Section for kit breakdown.

² Not sold separately.

PARTS LIST — KIT COMPONENTS

MODEL AA230L/AA250L INTRAAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
AIR SPRING MOUNTING KITS			
9	NO SPACER AND ALL WELD-ON AND BOLT-ON UNITS WITH STEEL SPACER (Per Air Spring)		S-22619/2
	1/4"-18 NPTF Plug	1	
	1/2"-13 Flanged Nut, Metal	1	
	3/4"-16 Flanged Nut, Metal	2	
9	1-1/8" THICK PLASTIC SPACER (Per Air Spring)		S-22630/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 1.10"	1	
	Extension Nut Fitting, .65"	2	
	1/2"-13 Flanged Nut, Metal	1	
9	1-7/8" THICK PLASTIC SPACER (Per Air Spring)		S-22631/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 2.10"	1	
	Extension Nut Fitting, 1.73"	2	
	1/2"-13 Flanged Nut, Metal	1	
	Plug	1	
9	3-1/8" THICK PLASTIC SPACER (Per Air Spring)		S-22632/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 3.10"	1	
	Extension Nut Fitting, 2.65"	2	
	1/2"-13 Flanged Nut, Metal	1	
	Plug	1	
9	3/4" THICK PLASTIC SPACER (Per Air Spring)		S-22635/2
	1/4"-18 NPTF Plug	1	
	Extension Nut Fitting, .65"	2	
	1/2"-13 Flanged Nut, Metal	1	
PIVOT BOLT/BUSHING KITS			
11	QUIK-ALIGN® PIVOT BOLT KIT (Per Hanger)⁴		S-24679
	7/8" Hardened Flat Washer	2	
	7/8"-9 x 10" Shear Type Bolt	1	
	7/8"-9 UNC Prevailing Torque Heavy Hex Nut	1	
12	QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)⁴		S-24691
	7/8" Hardened Flat Washer	2	
	7/8"-9 x 10" Shear Type Bolt	1	
	7/8"-9 UNC Prevailing Torque Heavy Hex Nut	1	
	Bushing Wear Pad	2	
	TRI-FUNCTIONAL® II BUSHING	1	
	Lubricant Packet	1	

⁴ Best Installed with E-20 Socket, Hendrickson Part No. A-24303.

**MODEL AA230L/AA250L INTRAAX® cont.**

ITEM	DESCRIPTION	QTY	PART NO.
SHOCK ABSORBER BOLT KIT			
15	SHOCK ABSORBER BOLT KIT		S-24757/2
	3/4"-10 Hex Head Bolt	1	
	3/4"-10 Hex Nut	1	
	3/4" Hardened Flat Washer	2	
	3/4"-10 x 7" Shear Type Bolt	1	
AXLE NUT KITS			
16	HN SPINDLE TYPE AXLE NUT KIT (Per Wheel)		S-20492/2
	Inner Axle Nut	1	
	Outer Axle Nut	1	
	Lock Washer	1	
	8"-32 x 3/8" Set Screw	1	
16	HP SPINDLE TYPE AXLE NUT KIT (Per Wheel)		S-20475/2
	Inner Axle Nut	1	
	Outer Axle Nut	1	
	Lock Washer	1	
	8"-32 x 3/8" Set Screw	1	
ABS BRACKET KITS			
17	HN SPINDLE TYPE ABS BRACKET KIT (Per Wheel)		S-21064
	Sensor Bracket	1	
	1/4"-20 x 1-3/4" Grade 8, Hex Head Bolt	2	
	1/4"-20 Grade 8, Lock Nut	2	
	1/4" Flat Washer	4	
17	HP SPINDLE TYPE ABS BRACKET KIT (Per Wheel)		S-21070
	Sensor Bracket	1	
	1/4"-20 x 1-3/4" Grade 8, Hex Head Bolt	2	
	1/4"-20 Grade 8, Lock Nut	2	
	1/4" Flat Washer	4	

PARTS LIST — KIT COMPONENTS

MODEL AA230L/AA250L INTRAAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
BRAKE SHOE KITS			
BRAKE SHOE KIT (Per Wheel)⁵			S-21266-1
25	Lined Brake Shoe	2	
21	Brake Shoe Roller	2	
22	Roller Retainer	2	
23	Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)⁵			S-23750-1
25	Lined Brake Shoe	2	
21	Brake Shoe Roller	2	
22	Roller Retainer	2	
23	Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)⁵			S-23750-3
25	Lined Brake Shoe	2	
21	Brake Shoe Roller	2	
22	Roller Retainer	2	
23	Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)⁵			S-23751-1
25	Lined Brake Shoe	2	
21	Brake Shoe Roller	2	
22	Roller Retainer	2	
23	Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)⁵			S-23751-3
25	Lined Brake Shoe	2	
21	Brake Shoe Roller	2	
22	Roller Retainer	2	
23	Return Spring Pin	2	
BRAKE OVERHAUL KITS			
ALL STANDARD BRAKES, MINOR OVERHAUL KIT (Per Wheel)			S-21183
18	Anchor Pin	2	
19	Anchor Pin Bushing	2	
20	Brake Retaining Spring	2	
21	Brake Shoe Roller	2	
22	Roller Retainer	2	
23	Return Spring Pin	2	
24	Brake Return Spring	1	
ALL HXS™ BRAKES, MINOR OVERHAUL KIT (Per Wheel)			S-23752
18	Anchor Pin	2	
19	Anchor Pin Bushing	2	
20	Brake Retaining Spring	2	
21	Brake Shoe Roller	2	
22	Roller Retainer	2	
23	Return Spring Pin	2	
24	Brake Return Spring	1	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁵			S-21184-1
18	Anchor Pin	2	
19	Anchor Pin Bushing	2	
24	Brake Return Spring	1	
20	Brake Retaining Spring	2	
25	Lined Brake Shoes	2	
21	Brake Shoe Roller	2	
22	Roller Retainer	2	
23	Return Spring Pin	2	

⁵ See AA230L/AA250L INTRAAX® Brake and Spindle Components Section for brake lining description.

**MODEL AA230L/AA250L INTRAAX® cont.**

ITEM	DESCRIPTION	QTY	PART NO.	
BRAKE OVERHAUL KITS (CONTINUED)				
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁵				
18	Anchor Pin	2	S-23753-1	
19	Anchor Pin Bushing	2		
24	Brake Return Spring	1		
20	Brake Retaining Spring	2		
25	Lined Brake Shoes	2		
21	Brake Shoe Roller	2		
22	Roller Retainer	2		
23	Return Spring Pin	2		
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁵				
18	Anchor Pin	2		S-23753-3
19	Anchor Pin Bushing	2		
24	Brake Return Spring	1		
20	Brake Retaining Spring	2		
25	Lined Brake Shoes	2		
21	Brake Shoe Roller	2		
22	Roller Retainer	2		
23	Return Spring Pin	2		
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁵				
18	Anchor Pin	2	S-23754-1	
19	Anchor Pin Bushing	2		
24	Brake Return Spring	1		
20	Brake Retaining Spring	2		
25	Lined Brake Shoes	2		
21	Brake Shoe Roller	2		
22	Roller Retainer	2		
23	Return Spring Pin	2		
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁵				
18	Anchor Pin	2		S-23754-3
19	Anchor Pin Bushing	2		
24	Brake Return Spring	1		
20	Brake Retaining Spring	2		
25	Lined Brake Shoes	2		
21	Brake Shoe Roller	2		
22	Roller Retainer	2		
23	Return Spring Pin	2		

⁵ See AA230L/AA250L INTRAAX® Brake and Spindle Components Section for brake lining description.

PARTS LIST — KIT COMPONENTS

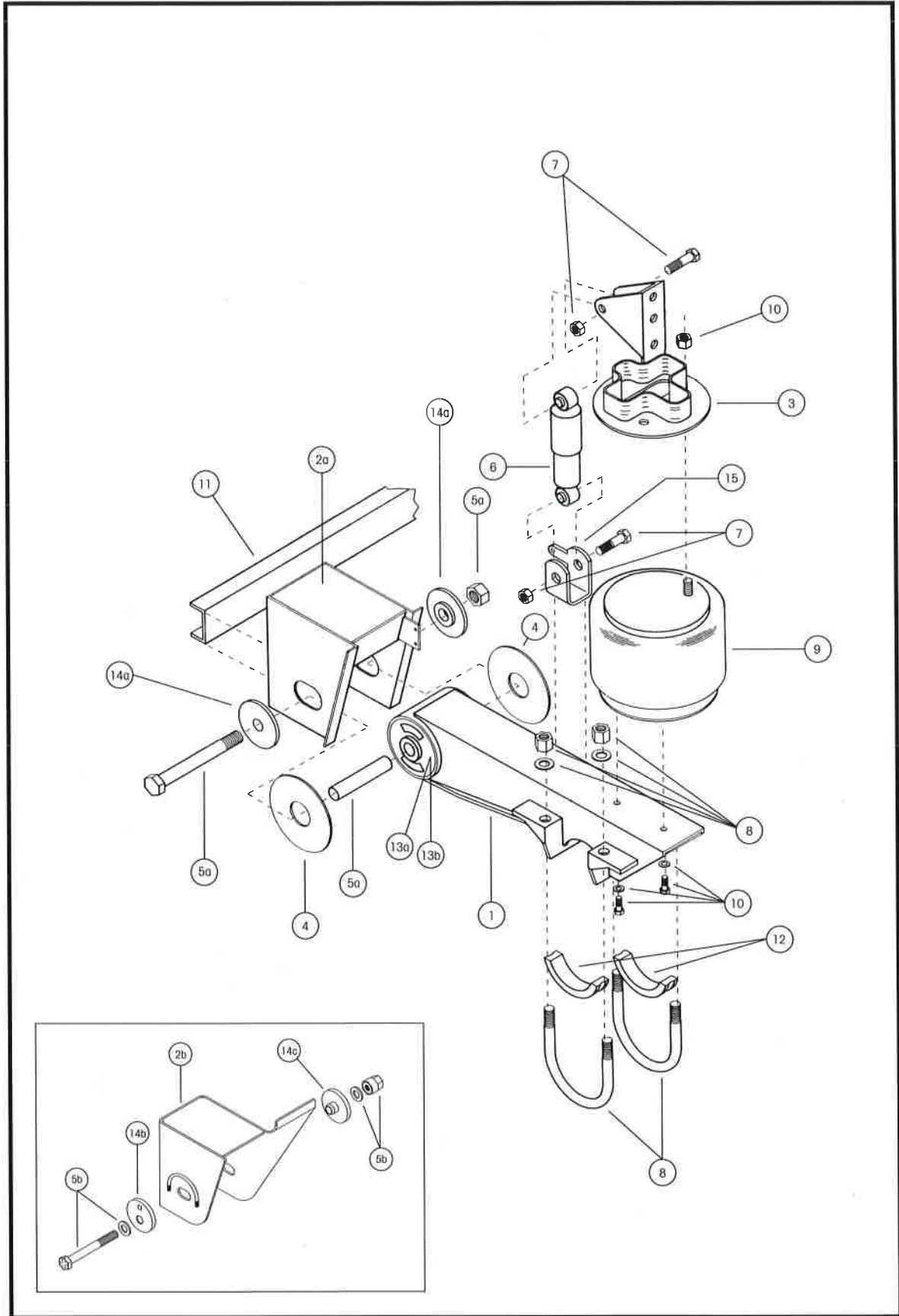
MODEL AA230L/AA250L INTRAAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
BRAKE CONVERSION TO HXS™ KITS			
16-1/2" x 7", HXS™, ABEX 3030-197, FMSI 4707			S-23756-1
26	Outer Cam Washer	2	
23	Brake Return Spring	2	
24	Lined Brake Shoe	4	
20	Brake Shoe Roller	4	
21	Roller Retainer	4	
22	Return Spring Pin	4	
25	S-cam	2	
16-1/2" x 8-5/8" HXS™, ABEX 3030-197, FMSI 4711			S-23757-1
26	Outer Cam Washer	2	
23	Brake Return Spring	2	
24	Lined Brake Shoe	4	
20	Brake Shoe Roller	4	
21	Roller Retainer	4	
22	Return Spring Pin	4	
25	S-cam	2	
S-CAM OVERHAUL KITS			
AXLE S-CAM MAJOR OVERHAUL KIT FOR UNITS			
SHIPPED BEFORE 11/24/97 (Per Axle)			S-21181
31	Spider Retaining Ring	2	
34	Spline Retaining Ring	2	
30	S-cam Journal Washer	4	
29	Spider Camshaft Bushing	2	
27	Outer Cam Washer	2	
32	S-cam Support Bushing Assembly	2	
28	Spider Seal	4	
33	Spline Inner Washer	6	
22	Roller Retainer	2	
AXLE S-CAM MAJOR OVERHAUL KIT FOR UNITS			
SHIPPED AFTER 11/24/97 (Per Axle)			S-23974
31	Spider Retaining Ring	2	
34	Spline Retaining Ring	2	
30	S-cam Journal Washer	4	
29	Spider Camshaft Bushing	2	
27	Outer Cam Washer	2	
32	S-cam Support Bushing Assembly	2	
28	Spider Seal	4	
33	Spline Inner Washer	6	
22	Roller Retainer	2	

**MODEL AA230L/AA250L INTRAAX® cont.**

ITEM	DESCRIPTION	QTY	PART NO.
S-CAM OVERHAUL KITS (CONTINUED)			
WHEEL S-CAM MAJOR OVERHAUL KIT FOR UNITS			
SHIPPED BEFORE 11/24/97 (Per Wheel)			S-21181/2
31	Spider Retaining Ring	1	
34	Spline Retaining Ring	1	
30	S-cam Journal Washer	2	
29	Spider Camshaft Bushing	1	
27	Outer Cam Washer	1	
32	S-cam Support Bushing Assembly	1	
28	Spider Seal	2	
33	Spline Inner Washer	3	
22	Roller Retainer	1	
WHEEL S-CAM MAJOR OVERHAUL KIT FOR UNITS			
SHIPPED AFTER 11/24/97 (Per Wheel)			S-23974/2
31	Spider Retaining Ring	1	
34	Spline Retaining Ring	1	
30	S-cam Journal Washer	2	
29	Spider Camshaft Bushing	1	
27	Outer Cam Washer	1	
32	S-cam Support Bushing Assembly	1	
28	Spider Seal	2	
33	Spline Inner Washer	3	
22	Roller Retainer	1	

MODEL HIGH CONTROL/HTDOLLY





PARTS LIST

MODEL HIGH CONTROL/HTDOLLY

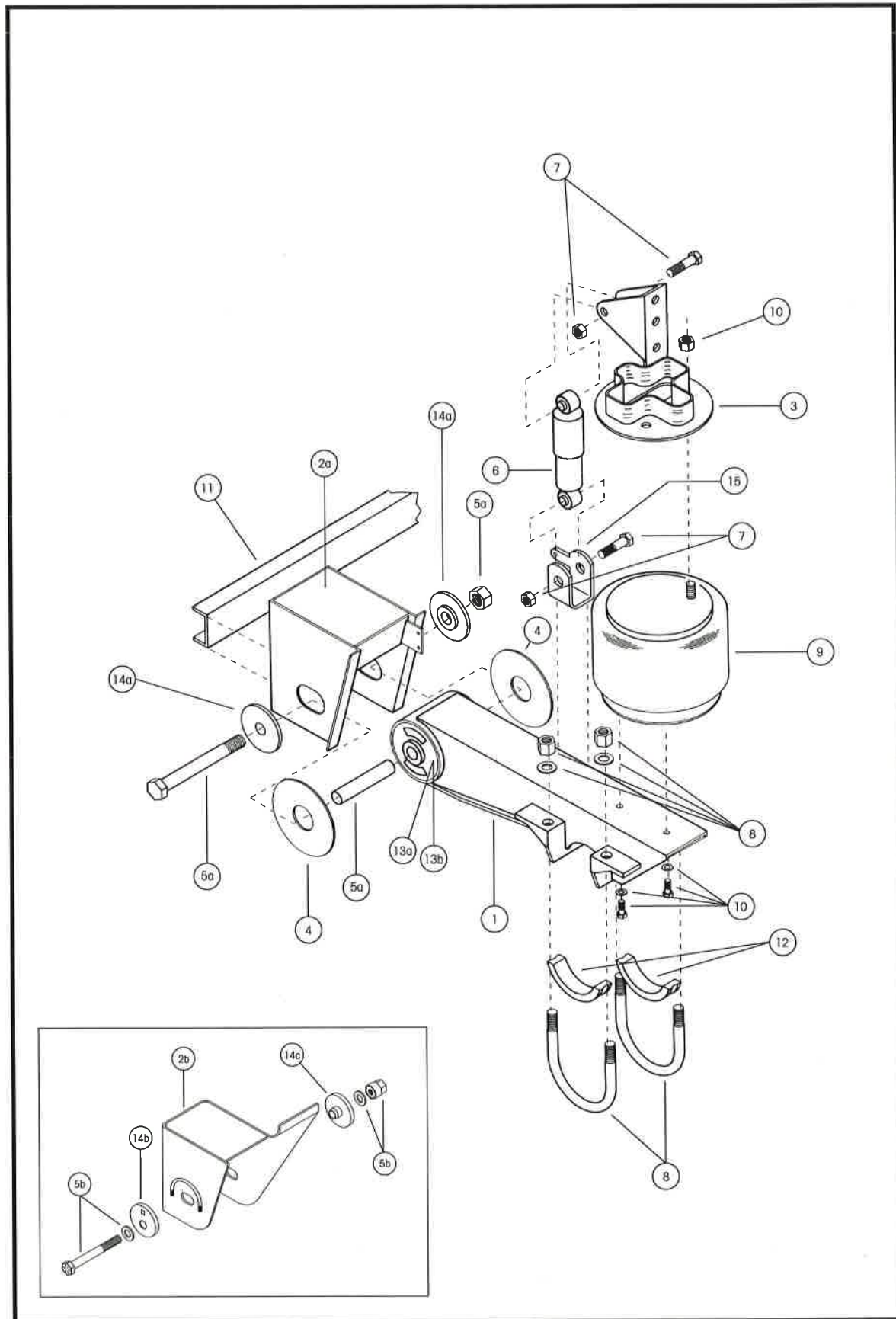
ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO.							
1	BEAM ASSEMBLY	Roadside	D-20000-1	1	HTDOLLY-14-003	HC190T-14-003					
					HTDOLLY-16-007	HC190TA16-007					
					HTDOLLY-15-014	HC190TA15-014					
					HTDOLLY-14-005	HC230-14-005					
					HTDOLLY-16-016	HC230TA16-016					
					HC190TA14-603						
		Curbside	D-20000-2	1	HTDOLLY-16-012	HC190TA16-012					
					HTDOLLY-14-003	HC190T-14-003					
					HTDOLLY-16-007	HC190TA16-007					
					HTDOLLY-15-014	HC190TA15-014					
					HTDOLLY-14-005	HC230-14-005					
					HTDOLLY-16-016	HC230TA16-016					
					HC190TA14-603						
					HTDOLLY-16-012	HC190TA16-012					
2	FRAME BRACKET										
2a	Wingless, Welded Alignment, Roadside	C-20065-1	1	HTDOLLY-14-003	HC190T-14-003						
				HTDOLLY-14-005	HC230-14-005						
		Wingless, Welded Alignment, Curbside	C-20065-2	1	HTDOLLY-14-003	HC190T-14-003					
					HTDOLLY-14-005	HC230-14-005					
					2b	Winged, QUIK-ALIGN®, Roadside	D-21165-1	1	HTDOLLY-15-014	HC190TA15-014	
									HC190TA14-603		
							Winged, QUIK-ALIGN®, Curbside	D-21165-2	1	HTDOLLY-16-007	HC190TA16-007
										HTDOLLY-16-012	HC190TA16-012
										HTDOLLY-16-016	HC230TA16-016
										HTDOLLY-15-014	HC190TA15-014
3	AIR SPRING/SHOCK MOUNT	Roadside	C-20011-1	1	HTDOLLY-14-003	HC190T-14-003					
					HC190TA14-603	HTDOLLY-14-005					
					HC230-14-005						
		Curbside	C-20011-2	1	HTDOLLY-16-007	HC190TA16-007					
					HTDOLLY-16-012	HC190TA16-012					
					HTDOLLY-16-016	HC230TA16-016					
HTDOLLY-15-014	HC190TA15-014										
HTDOLLY-14-003	HC190T-14-003										
HC190TA14-603	HTDOLLY-14-005										
HC230-14-005											
HTDOLLY-16-007	HC190TA16-007										
HTDOLLY-16-012	HC190TA16-012										
HTDOLLY-16-016	HC230TA16-016										
	C-20040-2	1	HTDOLLY-15-014	HC190TA15-014							

NOTE: Models represented in this parts list are 20,000 lb and 23,000 lb top mount models. Contact Hendrickson for parts information on the following HIGH CONTROL models:

HTDOLLY-15-006	HTDOLLY-9.2-013	HC300-15-006	HC250U-9.2-013	HTDOLLY-9-011	HTDOLLY-15-021
HC190U-9-011	HC250U-15-021	HTDOLLY-7-020	HTDOLLY-15-023	HC190U-7-020	HC250U-15-023

NOTE: For HIGH CONTROL models starting with the prefix AA230 or AA250 refer to AA230T/AA250T INTRAAX® Parts List.

PRIMARY SUSPENSIONS





MODEL HIGH CONTROL/HTDOLLY cont.

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO.	
4	BUSHING WEAR PAD	B-21099	4	HTDOLLY-14-003	HC190T-14-003
				HC190TA14-603	HTDOLLY-16-007
				HC190TA16-007	HTDOLLY-16-012
				HC190TA16-012	HTDOLLY-15-014
				HC190TA15-014	HTDOLLY-14-005
				HC230-14-005	HTDOLLY-16-016
				HC230TA16-016	
5	PIVOT BOLT KIT				
5a	Welded Alignment	S-3646	2	HTDOLLY-14-003	HC190T-14-003
				HTDOLLY-14-005	HC230-14-005
5b	QUIK-ALIGN®	S-21052	2	HTDOLLY-15-014	HC190TA15-014
				HC190TA14-603	HTDOLLY-16-007
				HC190TA16-007	HTDOLLY-16-012
				HC190TA16-012	HTDOLLY-16-016
				HC230TA16-016	
6	SHOCK ABSORBER	S-20001	2	HTDOLLY-14-003	HC190T-14-003
				HC190TA14-603	HTDOLLY-16-007
				HC190TA16-007	HTDOLLY-16-012
		HC190TA16-012		HTDOLLY-15-014	
		HC190TA15-014			
		S-20002		HTDOLLY-14-005	HC230-14-005
				HTDOLLY-16-016	HC230TA16-016
7	SHOCK ABSORBER BOLT KIT	S-20031/2	2	HTDOLLY-14-003	HC190T-14-003
				HC190TA14-603	HTDOLLY-16-007
				HC190TA16-007	HTDOLLY-16-012
				HC190TA16-012	HTDOLLY-15-014
				HC190TA15-014	HTDOLLY-14-005
				HC230-14-005	HTDOLLY-16-016
				HC230TA16-016	
8	U-BOLT KIT	S-20032/4	4	HTDOLLY-14-003	HC190T-14-003
				HC190TA14-603	HTDOLLY-16-007
				HC190TA16-007	HTDOLLY-16-012
				HC190TA16-012	HTDOLLY-15-014
				HC190TA15-014	HTDOLLY-14-005
				HC230-14-005	HTDOLLY-16-016
				HC230TA16-016	
9	AIR SPRING	S-20223	2	HTDOLLY-14-003	HC190T-14-003
				HC190TA14-603	HTDOLLY-16-007
				HC190TA16-007	HTDOLLY-16-012
		HC190TA16-012		HTDOLLY-15-014	
		HC190TA15-014			
		S-20010		HTDOLLY-14-005	HC230-14-005
				HTDOLLY-16-016	HC230TA16-016
10	AIR SPRING BOLT KIT	S-20033/2	2	HTDOLLY-14-003	HC190T-14-003
				HC190TA14-603	HTDOLLY-16-007
				HC190TA16-007	HTDOLLY-16-012
				HC190TA16-012	HTDOLLY-15-014
				HC190TA15-014	HTDOLLY-14-005
				HC230-14-005	HTDOLLY-16-016
				HC230TA16-016	

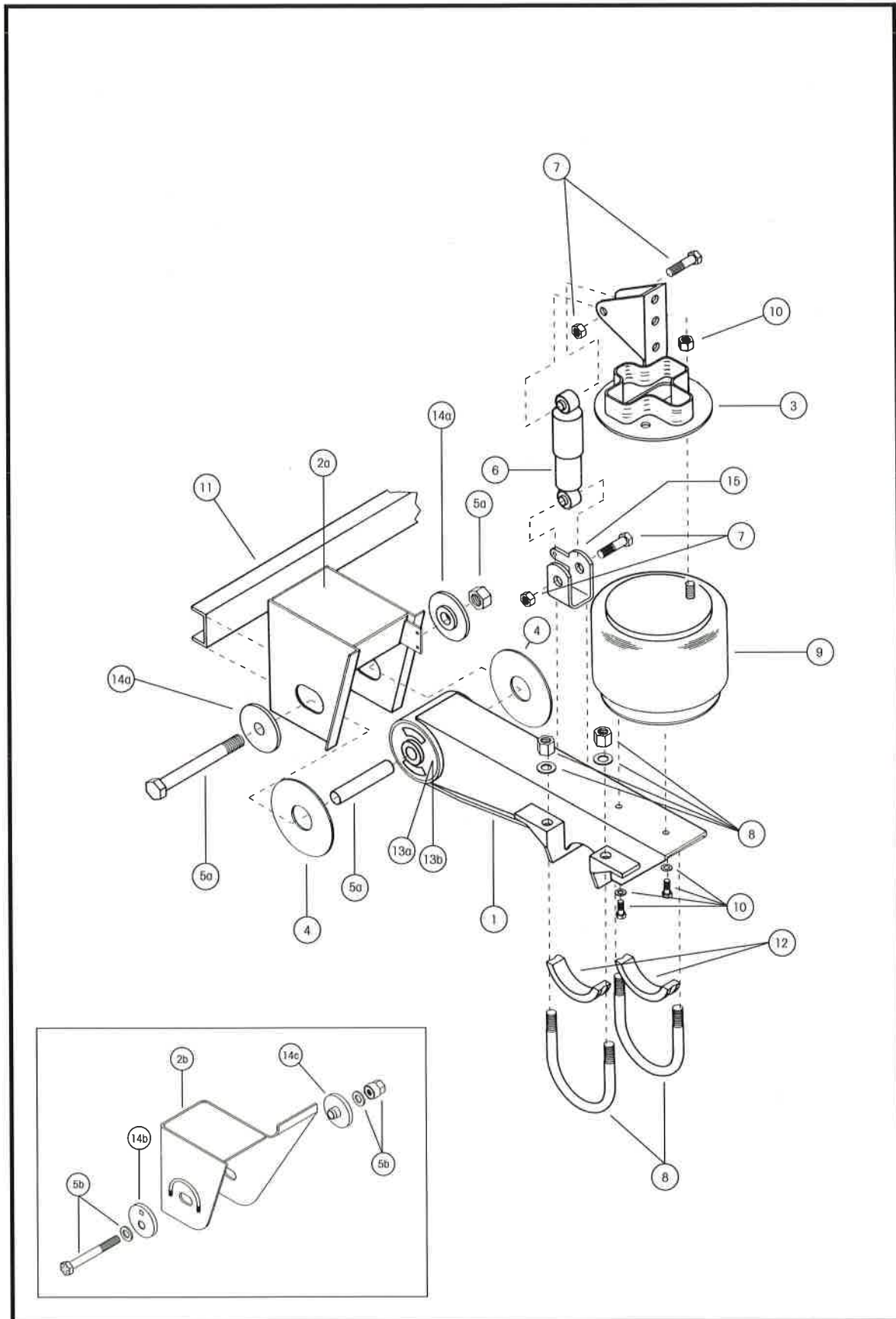
PRIMARY SUSPENSIONS

NOTE: Models represented in this parts list are 20,000 lb and 23,000 lb top mount models. Contact Hendrickson for parts information on the following HIGH CONTROL models:

- | | | | | | |
|----------------|-----------------|---------------|----------------|---------------|----------------|
| HTDOLLY-15-006 | HTDOLLY-9.2-013 | HC300-15-006 | HC250U-9.2-013 | HTDOLLY-9-011 | HTDOLLY-15-021 |
| HC190U-9-011 | HC250U-15-021 | HTDOLLY-7-020 | HTDOLLY-15-023 | HC190U-7-020 | HC250U-15-023 |

NOTE: For HIGH CONTROL models starting with the prefix AA230 or AA250 refer to AA230T/AA250T INTRAAX® Parts List.





**MODEL HIGH CONTROL/HTDOLLY cont.**

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO.		
11	FRAME BRACKET CHANNEL	A-1631-19	1	HTDOLLY-14-003	HC190T-14-003	
				HC190TA14-603	HTDOLLY-16-007	
				HC190TA16-007	HTDOLLY-16-012	
				HC190TA16-012	HTDOLLY-15-014	
				HC190TA15-014	HTDOLLY-14-005	
				HC230-14-005	HTDOLLY-16-016	
				HC230TA16-016		
12	AXLE SPACER	S-20701		HTDOLLY-14-003	HC190T-14-003	
				HC190TA14-603	HTDOLLY-16-007	
				HC190TA16-007	HTDOLLY-16-012	
				HC190TA16-012	HTDOLLY-15-014	
				HC190TA15-014	HTDOLLY-14-005	
				HC230-14-005	HTDOLLY-16-016	
				HC230TA16-016		
13	TRI-FUNCTIONAL® II BUSHING KIT HIGH CONTROL ¹					
13a	Welded Alignment	S-24622	2	HTDOLLY-14-003	HC190T-14-003	
				HTDOLLY-14-005	HC230-14-005	
13b	QUIK-ALIGN®	S-24112	2	HTDOLLY-15-014	HC190TA15-014	
				HC190TA14-603	HTDOLLY-16-007	
				HC190TA16-007	HTDOLLY-16-012	
				HC190TA16-012	HTDOLLY-16-016	
				HC230TA16-016		
14	ALIGNMENT COLLARS					
14a	Welded Alignment	S-2770	4	HTDOLLY-14-003	HC190T-14-003	
				HTDOLLY-14-005	HC230-14-005	
14b	Eccentric, QUIK-ALIGN®	C-20925	2	HTDOLLY-15-014	HC190TA15-014	
				HC190TA14-603	HTDOLLY-16-007	
				HC190TA16-007	HTDOLLY-16-012	
				HC190TA16-012	HTDOLLY-16-016	
				HC230TA16-016		
14c	Concentric, QUIK-ALIGN®	C-20924	2	HTDOLLY-15-014	HC190TA15-014	
				HC190TA14-603	HTDOLLY-16-007	
				4	HC190TA16-007	HTDOLLY-16-012
				4	HC190TA16-012	HTDOLLY-16-016
				4	HC230TA16-016	
15	LOWER SHOCK CLEVIS	C-20069	2	HTDOLLY-14-003	HC190T-14-003	
				HC190TA14-603	HTDOLLY-16-007	
				HC190TA16-007	HTDOLLY-16-012	
				HC190TA16-012	HTDOLLY-15-014	
				HC190TA15-014	HTDOLLY-14-005	
				HC230-14-005	HTDOLLY-16-016	
				HC230TA16-016		

¹ The Tri-Functional® II Bushing Kit High Control includes Item #5 (Pivot Bolt Kit) and Item #4 (Bushing Wear Pad). Bushing Tool, S-21307, is required to correctly re-bush the suspension.

NOTE: Models represented in this parts list are 20,000 lb and 23,000 lb top mount models. Contact Hendrickson for parts information on the following HIGH CONTROL models:

HTDOLLY-15-006	HTDOLLY-9.2-013	HC300-15-006	HC250U-9.2-013	HTDOLLY-9-011	HTDOLLY-15-021
HC190U-9-011	HC250U-15-021	HTDOLLY-7-020	HTDOLLY-15-023	HC190U-7-020	HC250U-15-023

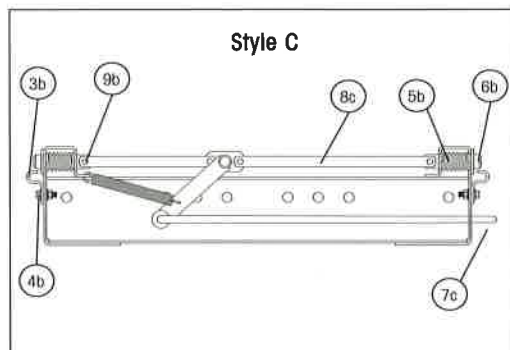
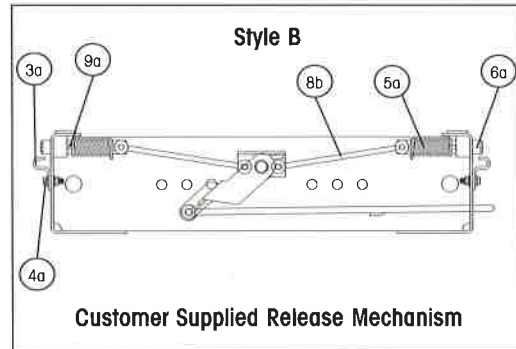
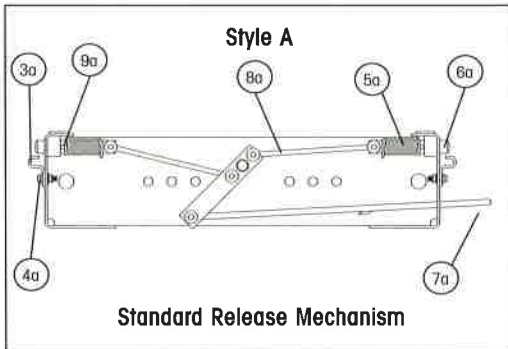
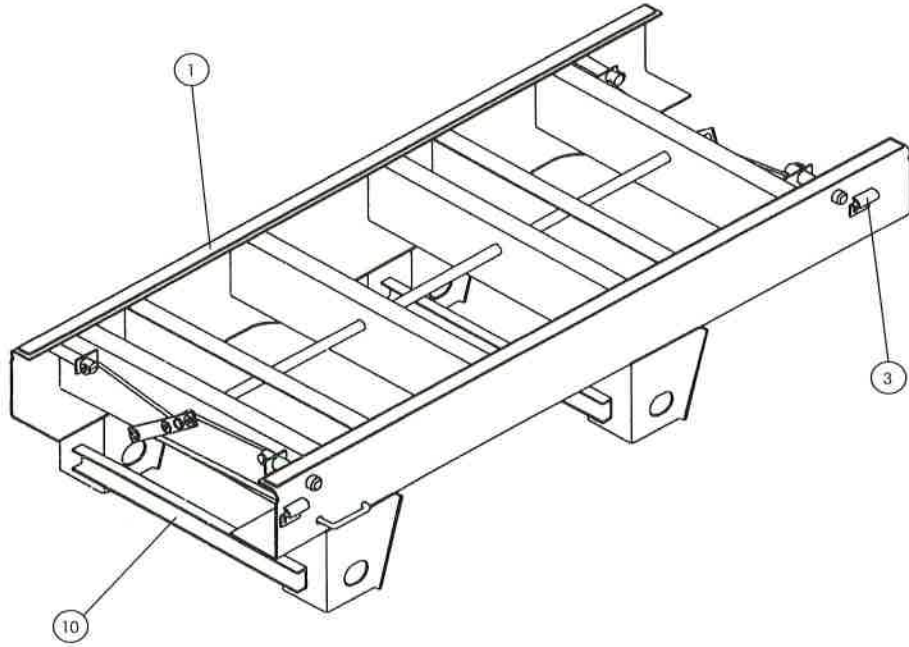
NOTE: For HIGH CONTROL models starting with the prefix AA230 or AA250 refer to AA230T/AA250T INTRAAX® Parts List.



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MODEL HS190T/230





PARTS LIST — SLIDER BOX COMPONENTS
MODEL HS190T/230

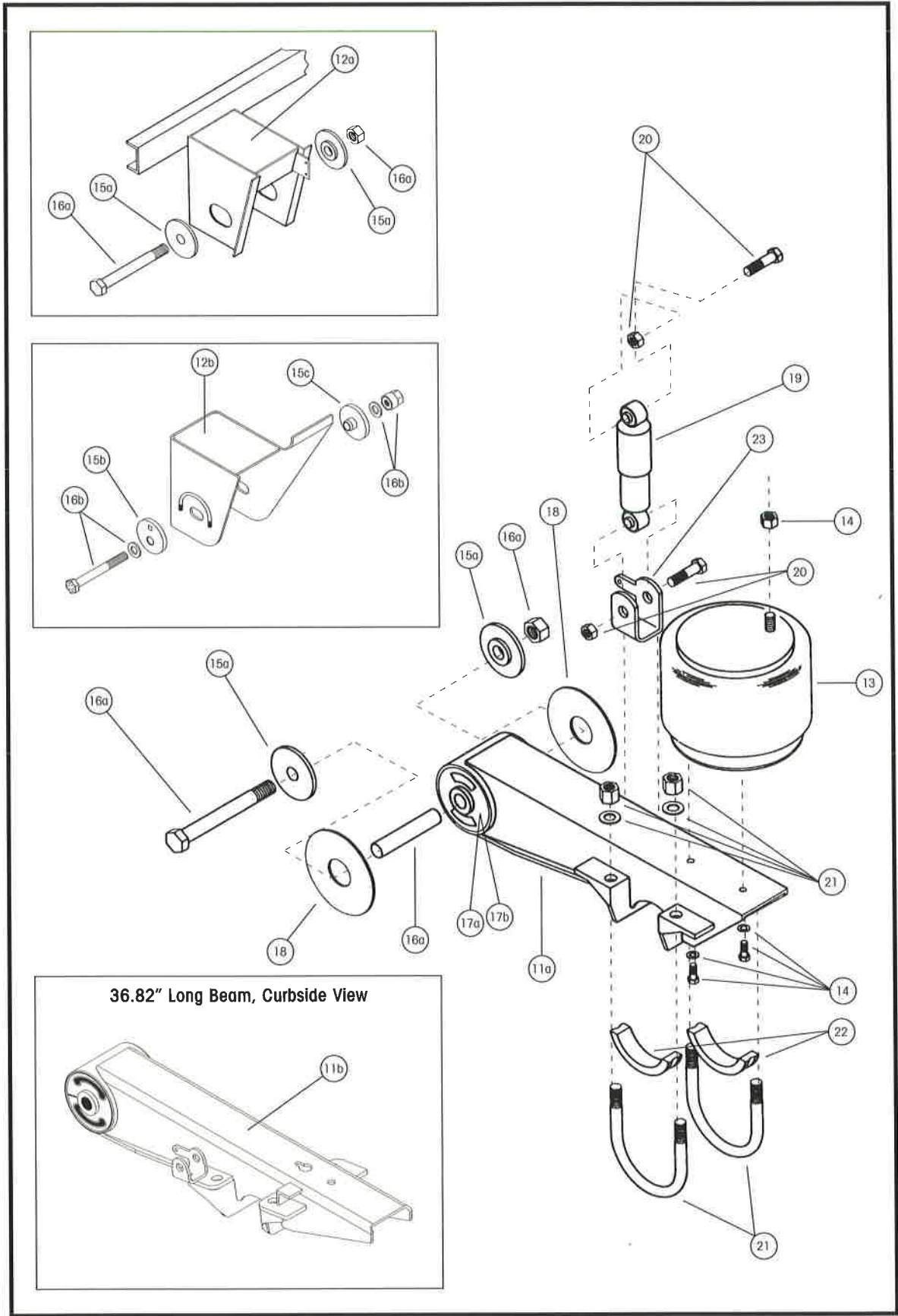
ITEM	DESCRIPTION	PART NO.	QTY	NOTE
1	SLIDER WEAR PAD			
	Style A and Style B	B-14109	2	49" axle centers
	Style A and Style B	B-14109-1	4	61" axle centers
	Style A and Style B	B-14109-2	4	73" axle centers
	Style C	11421-01	2	
2	WEAR PAD SCREW (Not Shown)			
	Style A and Style B	A-14269	16	
	Style C	9627-00	16	
3	BODY RAIL CLIP			
3a	Style A and Style B	B-14108	4	Hole centers measure 1-1/2"
	Style A and Style B	B-22366	4	Hole centers measure 2"
3b	Style C	9635-00	1	Hole centers measure 4"; includes body rail clip bolt
4	BODY RAIL CLIP BOLT			
4a	Style A and Style B	SA-6900-2	8	1/2"-13 x 1-1/2" flanged bolt, grade 8
4b	Style C	N/A		Included in part # 9635-00
5	LOCKING PIN SPRING			
5a	Style A and Style B	S-14102	4	
5b	Style C	12779-01	4	
6	LOCKING PIN			
6a	Style A and Style B	S-14104	4	
6b	Style C	12716-01	4	
7	ACTUATOR ARM			
7a	Style A	B-14111-2	1	42" width box
	Style A	B-14111-1	1	48" width box
7b	Style B	B-14573-2	1	42" width box
	Style B	B-14573-1	1	48" width box
7c	Style C	12781-01	1	42" and 48" width boxes
8	LOCKING PIN LINK			
8a	Style A	B-14112-2	4	42" width box
	Style A	B-14112-1	4	48" width box
8b	Style B	B-14112-4	4	42" width box
	Style B	B-14112-3	4	48" width box
8c	Style C	11412-02	4	42" width box
	Style C	11412-16	4	48" width box
9	LOCKING PIN ROD			
9a	Style A and Style B	S-14106	4	
9b	Style C	12780-01	4	
10	FRAME BRACKET CHANNEL	A-1631-6	2	For units with welded alignment only

CONTACT HENDRICKSON TO ORDER A SLIDER BOX ASSEMBLY THAT INCLUDES FRAME BRACKETS AND MOST SLIDER COMPONENTS.

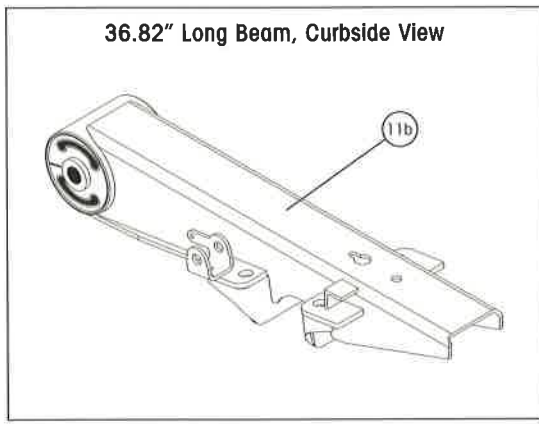
MODEL HS190T/230



SLIDER SUSPENSIONS



36.82" Long Beam, Curbside View





PARTS LIST — SUSPENSION COMPONENTS
MODEL HS190T/230

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
11	BEAM ASSEMBLY¹			
11a	Front or Rear, Roadside	S-20000-1		Overall length is 32.65"
	Front or Rear, Curbside	S-20000-2		Overall length is 32.65"
11b	Rear, Roadside	S-21736-1		Overall length is 36.82"
	Rear, Curbside	S-21736-2		Overall length is 36.82"
12	FRAME BRACKET			
12a	Welded Alignment			Contact Hendrickson for assistance
12b	QUIK-ALIGN®			Contact Hendrickson for assistance
13	AIR SPRING			
	HS190T Sliders	S-20223	4	Use to replace C-20223 air spring
	HS230 Sliders	S-20010	4	Use to replace C-20010 air spring
14	AIR SPRING BOLT KIT²	S-20033/2	4	
15	ALIGNMENT COLLARS			
15a	Welded Alignment	S-2770	8	
15b	Eccentric, QUIK-ALIGN®	S-20925	4	Pivot bolt hole is offset from center of collar
15c	Concentric, QUIK-ALIGN®	S-20924	4	Pivot bolt hole is in center of collar
16	PIVOT BOLT KIT²			
16a	Welded Alignment	S-3646	4	Includes bolt, nut and delrin liner
16b	QUIK-ALIGN®	S-21052	4	Includes bolt, TORQ-RITE® Nut and washers
17	TRI-FUNCTIONAL® II BUSHING KIT²			
17a	Welded Alignment	A-6914	4	Includes bushing, pivot bolt kit, wear pads and lube
17b	QUIK-ALIGN®	S-21166	4	Includes bushing, pivot bolt kit, wear pads and lube
18	BUSHING WEAR PAD	S-11613	8	Four (4) required per axle
19	SHOCK ABSORBER			
	HS190T Sliders	S-20001	4	Use to replace A-20001 shock absorber
	HS230 Sliders	S-20002	4	Use to replace A-20002 shock absorber
20	SHOCK ABSORBER BOLT KIT²	S-20031/2	4	
21	U-BOLT KIT²	S-20032	2	Order S-20032/4 for single U-bolt, nuts and washers
22	AXLE SPACER	S-20701	8	
23	LOWER SHOCK CLEVIS	C-20069	4	Included when ordering Item #11 (Beam Assembly)

¹ Measure beam assembly before ordering. Some models have 32.65" beam assemblies both on the front and rear; others have 32.65" beam assemblies on the front and 36.82" beam assemblies on the rear. Units with 36.82" beam assemblies on the rear are designed to accommodate SURELOK®. Units with the 32.65" beam assemblies on the rear require the addition of a weld-on beam extension to accommodate SURELOK®.

² See HS190T/230 Kit Components Section or Service Kit Section for kit breakdown.

PARTS LIST — KIT COMPONENTS
MODEL HS190T/230



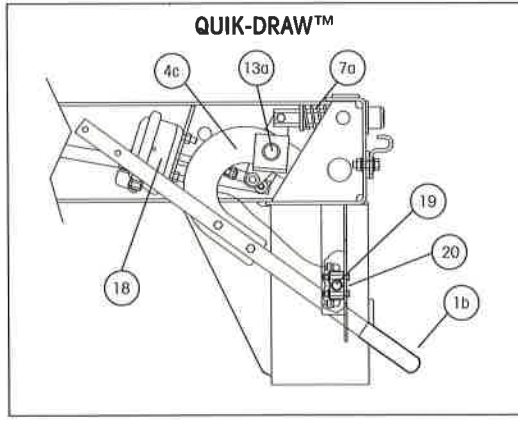
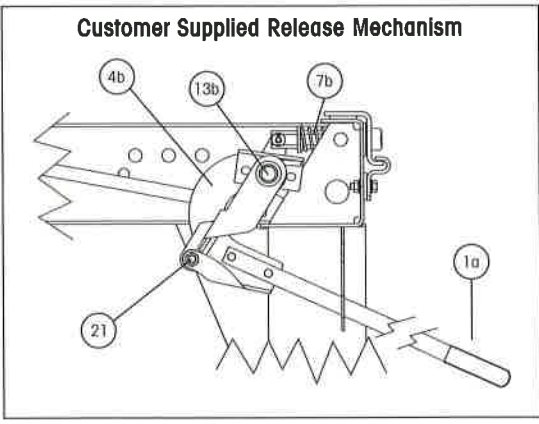
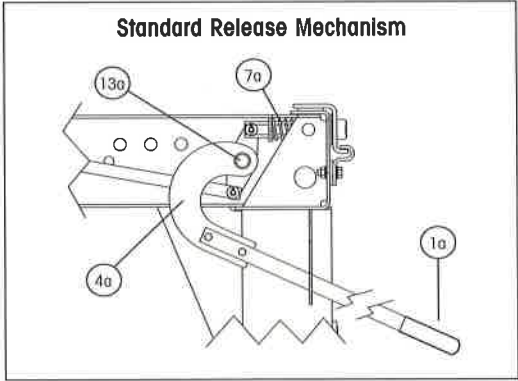
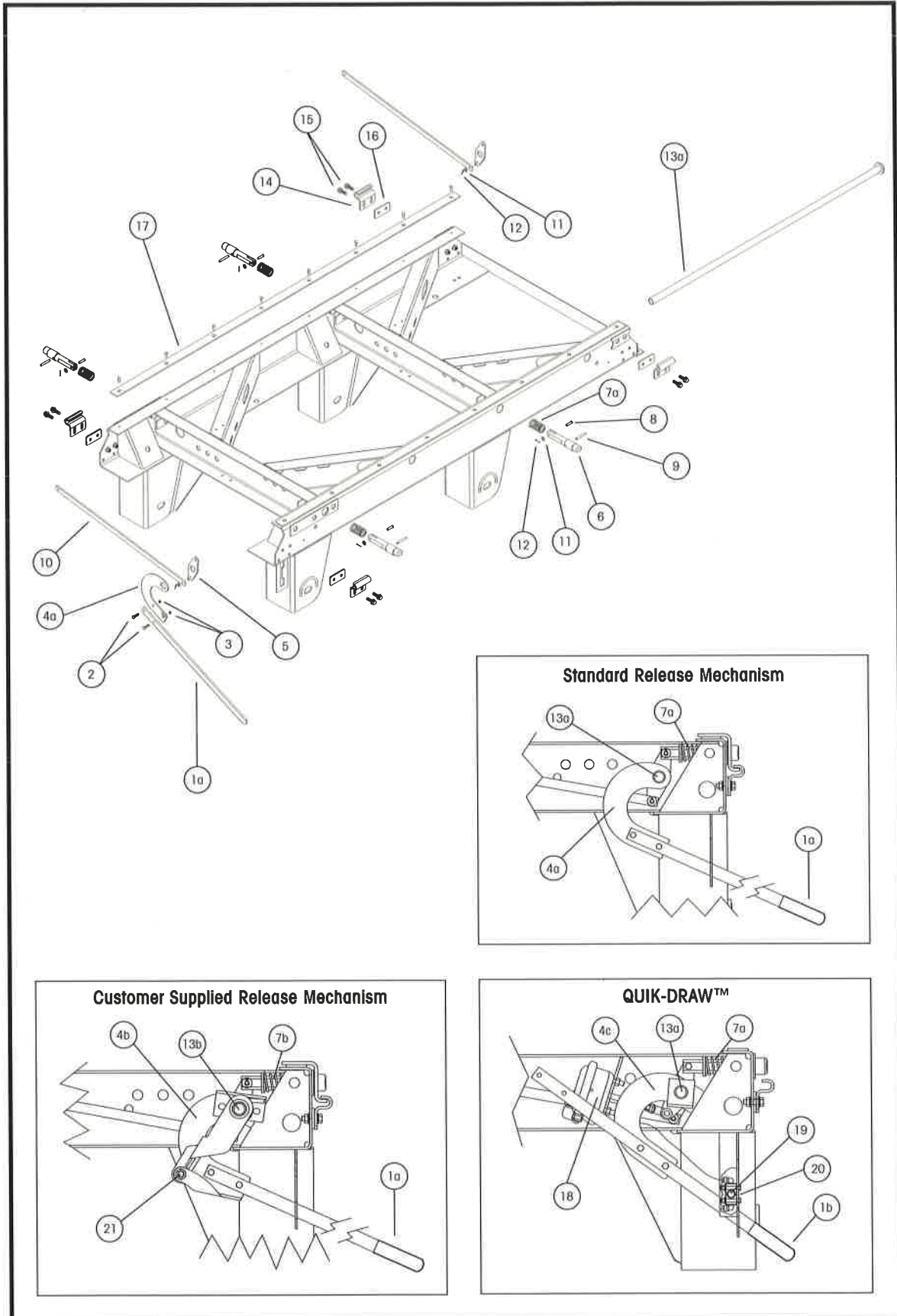
ITEM	DESCRIPTION	QTY	PART NO.
AIR SPRING BOLT KIT			S-20033/2
14	3/4"-16 Hex Nut	1	
	3/4" Helical Lock Washer	1	
	1/2"-13 Flanged Screw	2	
PIVOT BOLT/BUSHING KITS			
16a	WELDED ALIGNMENT PIVOT BOLT KIT (Per Hanger)		S-3646
	Delrin Liner	1	
	1-1/8"-7 x 9-3/4" Cap Screw	1	
	1-1/8"-7 Hex Nut	1	
16b	QUIK-ALIGN® PIVOT BOLT KIT (Per Hanger)³		S-21052
	7/8" Hardened Flat Washer	2	
	7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
	TORQ-RITE® Nut	1	
17a	WELDED ALIGNMENT PIVOT BUSHING KIT (Per Hanger)		A-6914
	Delrin Liner	1	
	1-1/8"-7 x 9-3/4" Cap Screw	1	
	1-1/8"-7 Hex Nut	1	
	Bushing Wear Pad	2	
	TRI-FUNCTIONAL® II BUSHING	1	
	Lubricant Packet	1	
17b	QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)³		S-21166
	7/8" Hardened Flat Washer	2	
	7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
	TORQ-RITE® Nut	1	
	Bushing Wear Pad	2	
	TRI-FUNCTIONAL® II BUSHING	1	
	Lubricant Packet	1	
20	SHOCK ABSORBER BOLT KIT		S-20031/2
	3/4"-10 Lock Nut	2	
	3/4"-10 x 3-1/4" Hex Head Bolt	2	
21	U-BOLT KIT		S-20032
	Round U-Bolt 8" Leg, Grade 5	4	
	7/8"-14 Hex Nut, Grade 5	8	
	7/8" Flat Washer	8	

³ Best installed with QUIK-ALIGN® Impact Sockets S-20947 (3/4" Drive Impact) or S-21058 (1" Drive Impact).

PARTS LIST — SLIDER BOX COMPONENTS
MODEL HK190T/230



SLIDER SUSPENSIONS





PARTS LIST — SLIDER BOX COMPONENTS

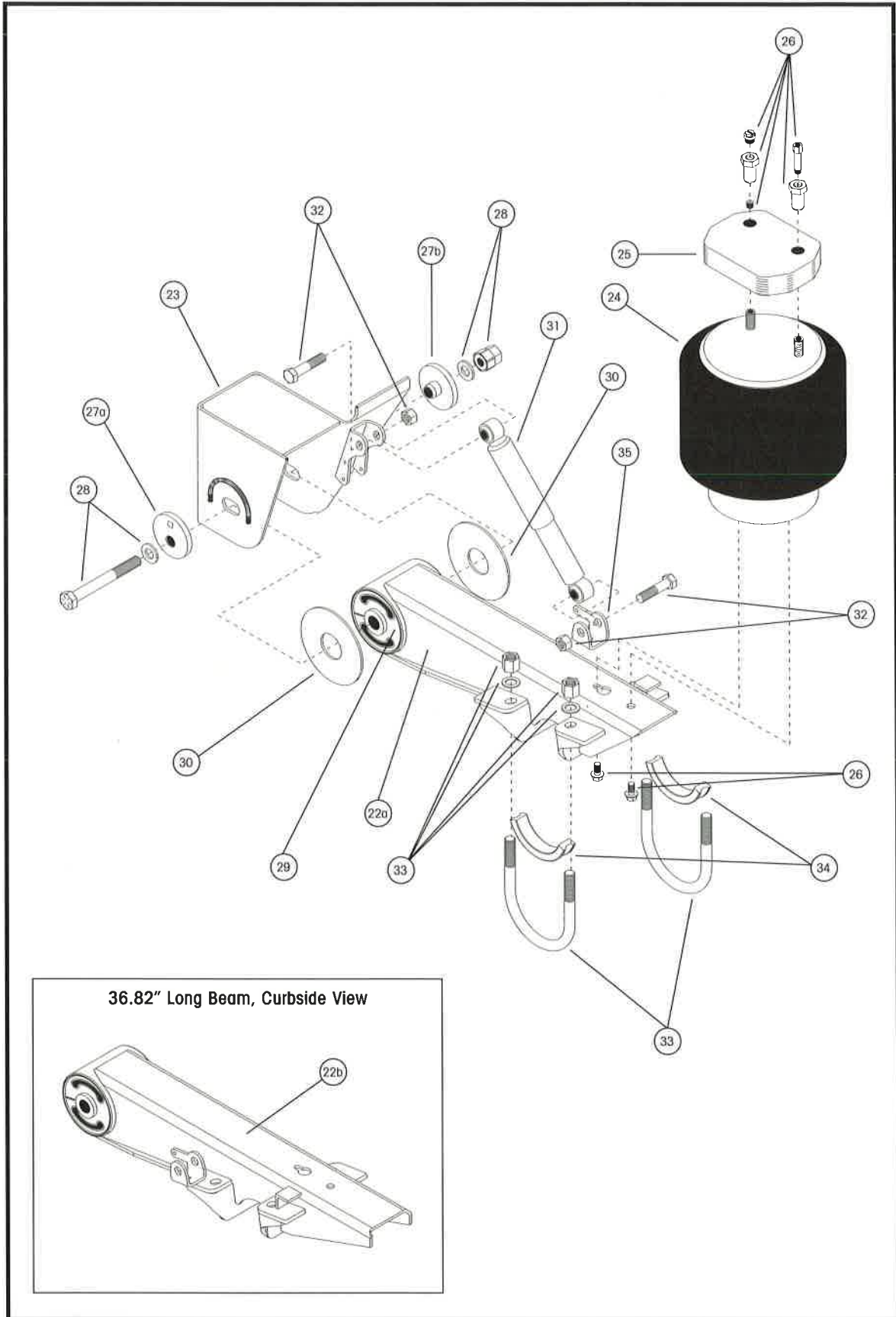
MODEL HK190T/230

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
1	HANDLE			
1a	Standard and Customer Supplied Release Mechanism	B-21505	1	
1b	QUIK-DRAW™	B-22923	1	
2	HANDLE BOLT	SA-1100-10	2	3/8"-16 x 1-1/4" hex head bolt, grade 5
3	HANDLE NUT	SA-9000-5	2	3/8"-16 lock nut, grade B
4	HANDLE MOUNT			
4a	Standard Release Mechanism	C-23232	1	
4b	Customer Supplied Release Mechanism	C-23530	1	
4c	QUIK-DRAW™	C-23231	1	
5	CRANK ARM WELDMENT			
	Standard Release Mechanism and Customer Supplied Release Mechanism	B-23149	2	For front and rear of slider box
	QUIK-DRAW™	B-23149	1	For rear of slider box
		B-22659	1	For front of slider box
6	LOCKING PIN			
	1-3/8" Dia. Pin	B-21456	4	6" body rail hole spacing
	1-5/8" Dia. Pin	B-21431	4	4" body rail hole spacing
7	LOCKING PIN SPRING			
7a	Standard Release Mechanism and QUIK-DRAW™	B-23165	4	
7b	Customer Supplied Release Mechanism	B-22000	4	Length and spring tension differ from above
8	CLEVIS PIN	SA-5200-6	4	3/8" x 1-3/8"
9	SPRING PIN	SA-8100-4	4	3/8" x 2-1/2" roll pin
10	LOCKING PIN LINK			
	42" Box	B-23150-1	2	
	48" Box	B-23150-2	2	
11	LOCKING PIN LINK WASHER	SA-1500-2	6	3/8" I.D. flat washer
12	LOCKING PIN LINK COTTER PIN	SA-1700-12	6	3/32" x 1" cotter pin
13	PIPE WELDMENT			
13a	Standard Release Mechanism and QUIK-DRAW™	B-21433	1	
13b	Customer Supplied Release Mechanism	B-21433-1	1	
14	BODY RAIL CLIP			
	Old Style	S-14108	4	Hole centers measure 1-1/2"
	New Style	B-22366	4	Hole centers measure 2"
15	BODY RAIL BOLT	SA-6900-2	8	1/2"-13 x 1-1/2" flanged bolt, grade 8
16	BODY RAIL CLIP SPACER			
	Old Style Box with Shims	A-21282	4	Hole centers measure 1-1/2"
	New Style Box with Shims	A-22367	4	Hole centers measure 2"
17	SLIDER WEAR PAD KIT	S-14342-3	2	
18	BRAKE CHAMBER	A-23039	1	Type 12 modified
19	AIR VALVE	A-22947	1	
20	VALVE CAP	A-22977	1	
21	CRANK ARM BOLT KIT	A-22041	1	includes bolt, flat washer, lock washer and nut

SLIDER SUSPENSIONS

CONTACT HENDRICKSON TO ORDER A SLIDER BOX ASSEMBLY THAT INCLUDES FRAME BRACKETS AND MOST SLIDER COMPONENTS.

MODEL HK190T/230





PARTS LIST — SUSPENSION COMPONENTS
MODEL HK190T/230

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
22	BEAM ASSEMBLY ¹			
22a	Front or Rear, Roadside	S-20000-1		Overall length is 32.65"
	Front or Rear, Curbside	S-20000-2		Overall length is 32.65"
22b	Rear, Roadside	S-21736-1		Overall length is 36.82"
	Rear, Curbside	S-21736-2		Overall length is 36.82"
23	FRAME BRACKET			Contact Hendrickson for assistance
24	AIR SPRING			
	HK190T Sliders	S-22045	4	Use to replace C-22045 air spring
	HK230 Sliders	S-22046	4	Use to replace C-22046 air spring
25	AIR SPRING SPACER			
	3/4" Thick Spacer	B-22510-4	4	Typically 16-1/2" and 17" ride height
	1-7/8" Thick Spacer	B-22510-2	4	Typically 18" ride height
	3-1/8" Thick Spacer	B-22510-3	4	Typically 19" ride height
26	AIR SPRING MOUNTING KIT ²			
	16" Ride Height	S-22907/2	4	For units without a spacer
	16-1/2" and 17" Ride Heights	S-22908/2	4	For units with a 3/4" spacer
	18" Ride Height	S-22909/2	4	For units with a 1-7/8" spacer
	19" Ride Height	S-22910/2	4	For units with a 3-1/8" spacer
27	ALIGNMENT COLLARS			
27a	Eccentric, QUIK-ALIGN®	S-20925	4	Pivot bolt hole is offset from center of collar
27b	Concentric, QUIK-ALIGN®	S-20924	4	Pivot bolt hole is in center of collar
28	QUIK-ALIGN® PIVOT BOLT KIT ²	S-21052	4	Includes bolt, TORQ-RITE® Nut and washers
29	QUIK-ALIGN® PIVOT BUSHING KIT ²	S-21166	4	Includes bushing, pivot bolt kit and wear pads
30	BUSHING WEAR PAD	S-11613	8	Four (4) required per axle
31	SHOCK ABSORBER	S-21292	4	Use to replace C-21292 shock absorber
32	SHOCK ABSORBER BOLT KIT ²	S-20031/2	4	
33	U-BOLT KIT ²	S-20032	2	Order S-20032/4 for a single U-bolt, nuts and washers
34	AXLE SPACER	S-20701	8	
35	LOWER SHOCK CLEVIS	C-20069	4	Included when ordering Item #22 (Beam Assembly)

¹ Measure beam assembly before ordering. Some models have 32.65" beam assemblies both on the front and rear; others have 32.65" beam assemblies on the front and 36.82" beam assemblies on the rear. Units with 36.82" beam assemblies on the rear are designed to accommodate SURELOK®. Units with the 32.65" beam assemblies on the rear require the addition of a weld-on beam extension to accommodate SURELOK®.

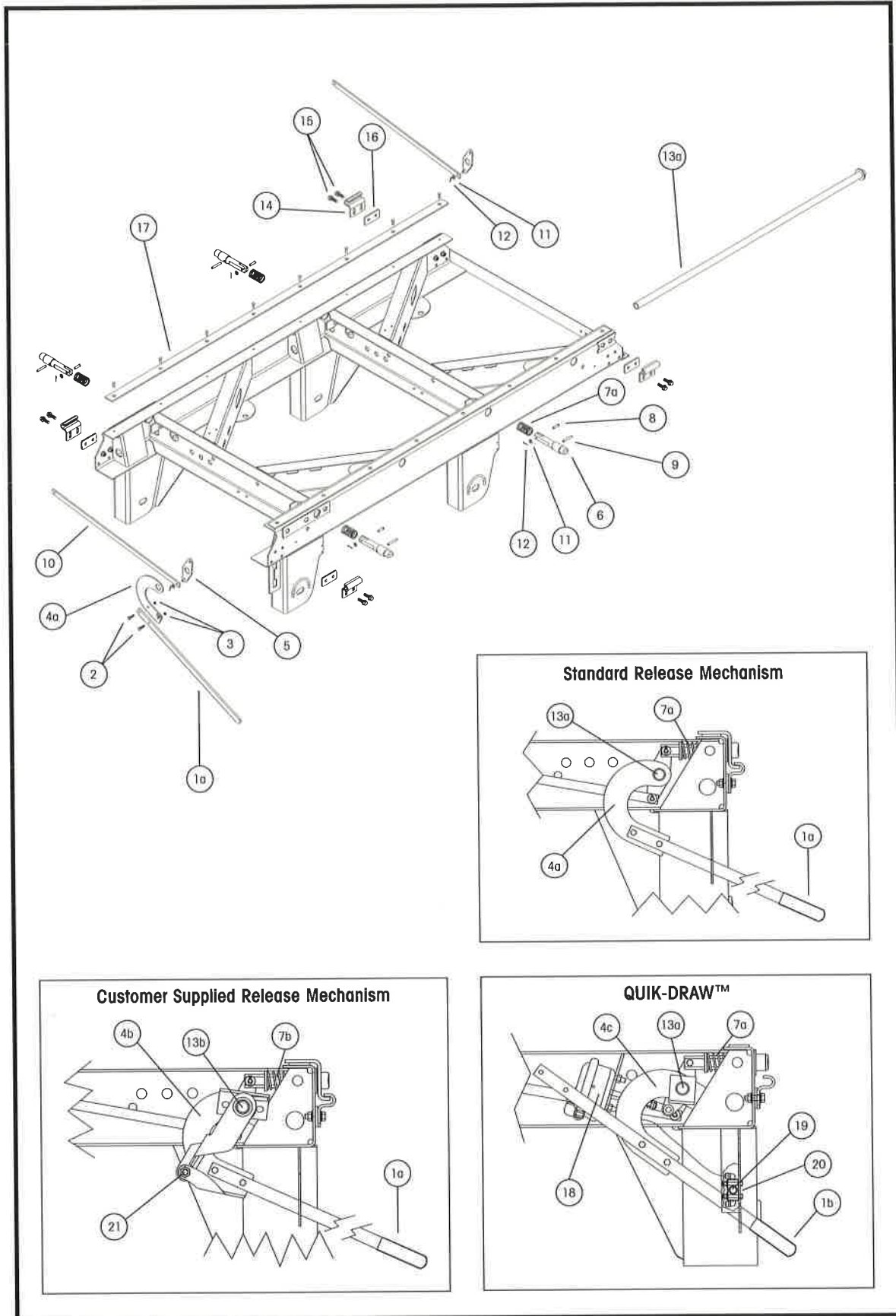
² See HK190T/230 Kit Components Section or Service Kit Section for kit breakdown.

PARTS LIST — KIT COMPONENTS
MODEL HK190T/230



ITEM	DESCRIPTION	QTY	PART NO.
AIR SPRING MOUNTING KITS			
26	16" RIDE HEIGHT / NO SPACER (Per Air Spring)		S-22907/2
	1/4"-18 NPTF Plug	1	
	1/2"-13 Flanged Screw	2	
	3/4"-16 Flanged Nut, Metal	2	
26	16-1/2" AND 17" RIDE HEIGHT / 3/4" THICK SPACER (Per Air Spring)		S-22908/2
	1/4"-18 NPTF Plug	1	
	Extension Nut Fitting, .65"	2	
	3/4"-16 Flanged Nut, Metal	2	
26	18" RIDE HEIGHT / 1-7/8" THICK SPACER (Per Air Spring)		S-22909/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 2.10"	1	
	Extension Nut Fitting, 1.73"	2	
	3/4"-16 Flanged Nut, Metal	2	
	Plug	1	
26	19" RIDE HEIGHT / 3-1/8" THICK SPACER (Per Air Spring)		S-22910/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 3.10"	1	
	Extension Nut Fitting, 2.65"	2	
	3/4"-16 Flanged Nut, Metal	2	
	Plug	1	
PIVOT BOLT/BUSHING KITS			
28	QUIK-ALIGN® PIVOT BOLT KIT (Per Hanger)³		S-21052
	7/8" Hardened Flat Washer	2	
	7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
	TORQ-RITE® Nut	1	
29	QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)³		S-21166
	7/8" Hardened Flat Washer	2	
	7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
	TORQ-RITE® Nut	1	
	Bushing Wear Pad	2	
	TRI-FUNCTIONAL® II BUSHING	1	
	Lubricant Packet	1	
32	SHOCK ABSORBER BOLT KIT		S-20031/2
	3/4"-10 Lock Nut	2	
	3/4"-10 x 3-1/4" Hex Head Bolt	2	
33	U-BOLT KIT		S-20032
	Round U-Bolt 8" Leg, Grade 5	4	
	7/8"-14 Hex Nut, Grade 5	8	
	7/8" Flat Washer	8	

³ Best installed with QUIK-ALIGN® Impact Sockets S-20947 (3/4" Drive Impact) or S-21058 (1" Drive Impact).



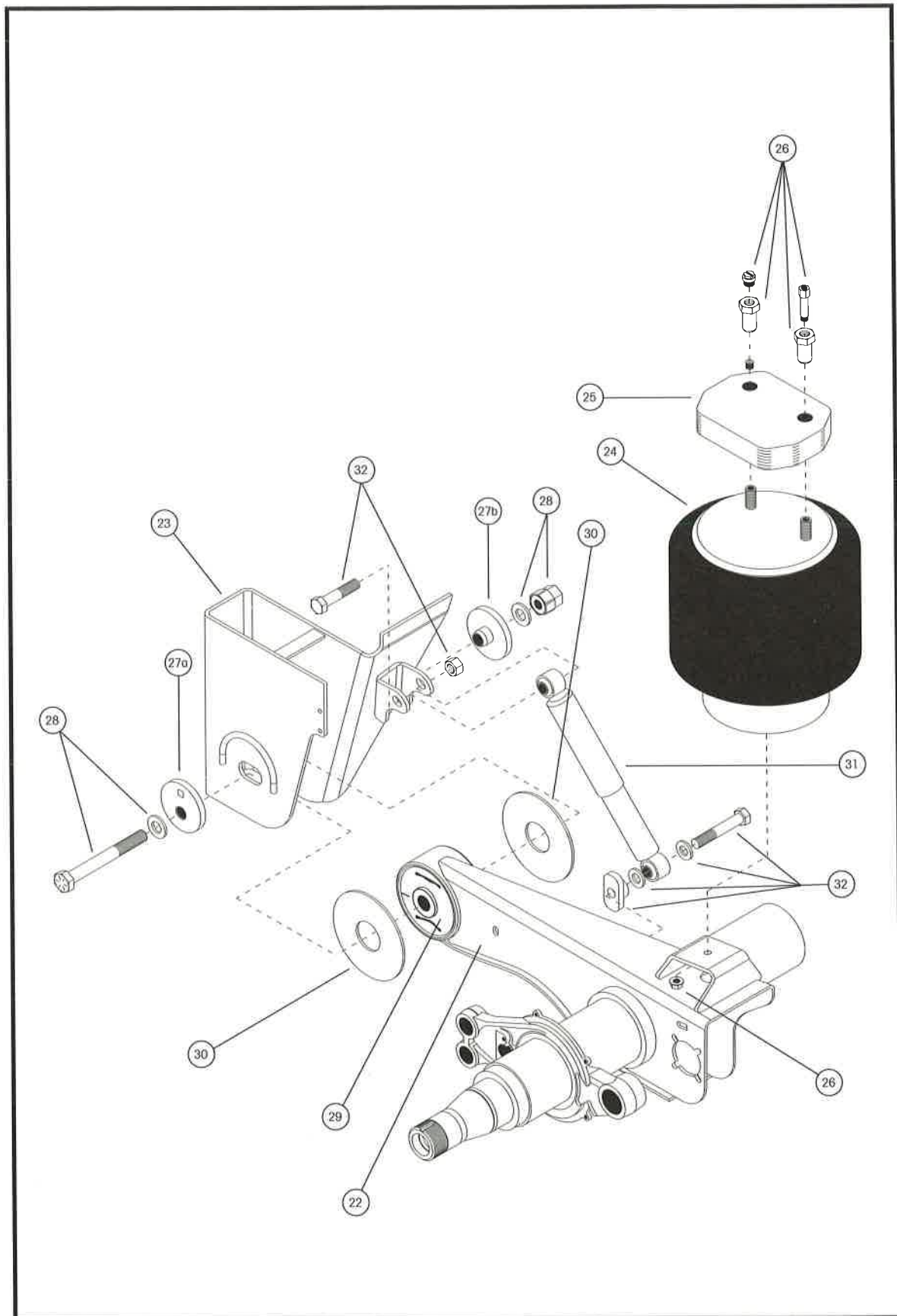


PARTS LIST — SLIDER BOX COMPONENTS
MODEL HKA180 VANTRAX®

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
1	HANDLE			
1a	Standard and Customer Supplied Release Mechanism	B-21505	1	
1b	QUIK-DRAW™	B-22923	1	
2	HANDLE BOLT	SA-1100-10	2	3/8"-16 x 1-1/4" hex head bolt, grade 5
3	HANDLE NUT	SA-9000-5	2	3/8"-16 lock nut, grade B
4	HANDLE MOUNT			
4a	Standard Release Mechanism	C-23232	1	
4b	Customer Supplied Release Mechanism	C-23530	1	
4c	QUIK-DRAW™	C-23231	1	
5	CRANK ARM WELDMENT			
	Standard Release Mechanism and Customer Supplied Release Mechanism QUIK-DRAW™	B-23149	2	For front and rear of slider box
		B-23149	1	For rear of slider box
		B-22659	1	For front of slider box
6	LOCKING PIN			
	1-3/8" Dia. Pin	B-21456	4	6" body rail hole spacing
	1-5/8" Dia. Pin	B-21431	4	4" body rail hole spacing
7	LOCKING PIN SPRING			
7a	Standard Release Mechanism and QUIK-DRAW™	B-23165	4	
7b	Customer Supplied Release Mechanism	B-22000	4	Length and spring tension differ from above
8	CLEVIS PIN	SA-5200-6	4	3/8" x 1-3/8"
9	SPRING PIN	SA-8100-4	4	3/8" x 2-1/2" roll pin
10	LOCKING PIN LINK			
	42" Box	B-23150-1	2	
	48" Box	B-23150-2	2	
11	LOCKING PIN LINK WASHER	SA-1500-2	6	3/8" I.D. flat washer
12	LOCKING PIN LINK COTTER PIN	SA-1700-12	6	3/32" x 1" cotter pin
13	PIPE WELDMENT			
13a	Standard Release Mechanism and QUIK-DRAW™	B-21433	1	
13b	Customer Supplied Release Mechanism	B-21433-1	1	
14	BODY RAIL CLIP	B-22366	4	Hole centers measure 2"
15	BODY RAIL BOLT	SA-6900-2	8	1/2"-13 x 1-1/2" flanged bolt, grade 8
16	BODY RAIL CLIP SPACER	A-22367	4	Hole centers measure 2"
17	SLIDER WEAR PAD KIT	S-14342-3	2	
18	BRAKE CHAMBER	A-23039	1	Type 12 modified
19	AIR VALVE	A-22947	1	
20	VALVE CAP	A-22977	1	
21	CRANK ARM BOLT KIT	A-22041	1	Includes bolt, flat washer, lock washer and nut

CONTACT HENDRICKSON TO ORDER A SLIDER BOX ASSEMBLY THAT INCLUDES FRAME BRACKETS AND MOST SLIDER COMPONENTS.

MODEL HKA180 VANTRAX® cont.



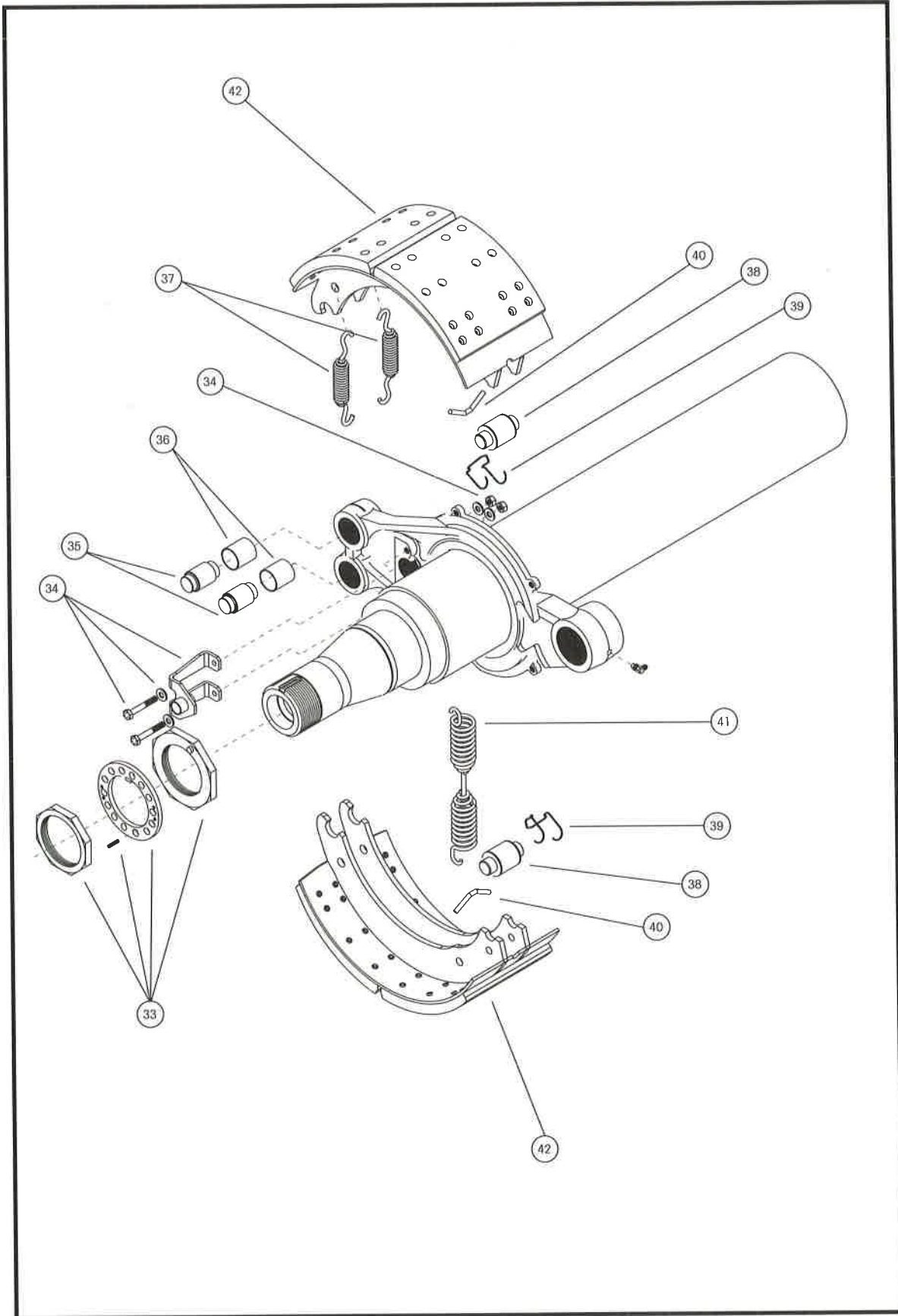


PARTS LIST — SUSPENSION AND AXLE COMPONENTS
MODEL HKA180 VANTRAAX® cont.

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
22	AXLE/BEAM WELDMENT			Contact Hendrickson for assistance
23	FRAME BRACKET			Contact Hendrickson for assistance
24	AIR SPRING			
	Below 16" Ride Height	S-21800	4	Use to replace C-21800 air spring
	16" to 19" Ride Height	S-22948	4	Use to replace C-22948 or C-21966 air springs
25	AIR SPRING SPACER			
	3/4" Thick Spacer	B-22510-4	4	Typically 14" ride height; use this spacer stacked with the B-22510-2 spacer for a 15 1/2" ride height
	1-1/8" Thick Spacer	B-22510-1	4	Typically 17" ride height
	1-7/8" Thick Spacer	B-22510-2	4	Typically 15" and 18" ride height; use this spacer stacked with the B-22510-4 spacer for a 15-1/2" ride height
	3-1/8" Thick Spacer	B-22510-3	4	Typically 19" ride height
26	AIR SPRING MOUNTING KIT ¹ (Per Air Spring)			
	14" and 18" Ride Heights	S-22635/2	4	
	15" and 19" Ride Heights	S-22631/2	4	
	15-1/2" Ride Height	S-22632/2	4	
	16" and 17" Ride Heights	S-22619/2	4	
27	ALIGNMENT COLLARS			
27a	Eccentric, QUIK-ALIGN®	S-20925	4	Pivot bolt hole is offset from center of collar
27b	Concentric, QUIK-ALIGN®	S-20924	4	Pivot bolt hole is in center of collar
28	QUIK-ALIGN® PIVOT BOLT KIT ¹	S-23319	4	Includes bolt, TORQ-RITE® Nut and washers
29	QUIK-ALIGN® PIVOT BUSHING KIT ¹	S-23320	4	Includes bushing, pivot bolt kit, wear pads and lube
30	BUSHING WEAR PAD	S-11613	8	Four (4) required per axle
31	SHOCK ABSORBER ²			
	Standard Duty	S-24088	4	Use to replace A-20001 or B-24088 shock absorbers
	High Damping	S-22715	4	Use to replace B-22715 shock absorber
32	SHOCK ABSORBER BOLT KIT ¹	S-24049/2	4	One (1) required per shock

¹ See HKA180 VANTRAAX® Kit Components Section or Service Kit Section for kit breakdown.

² Other options exist. Contact Hendrickson for assistance.





PARTS LIST — BRAKE AND SPINDLE COMPONENTS
MODEL HKA180 VANTRAAX® cont.

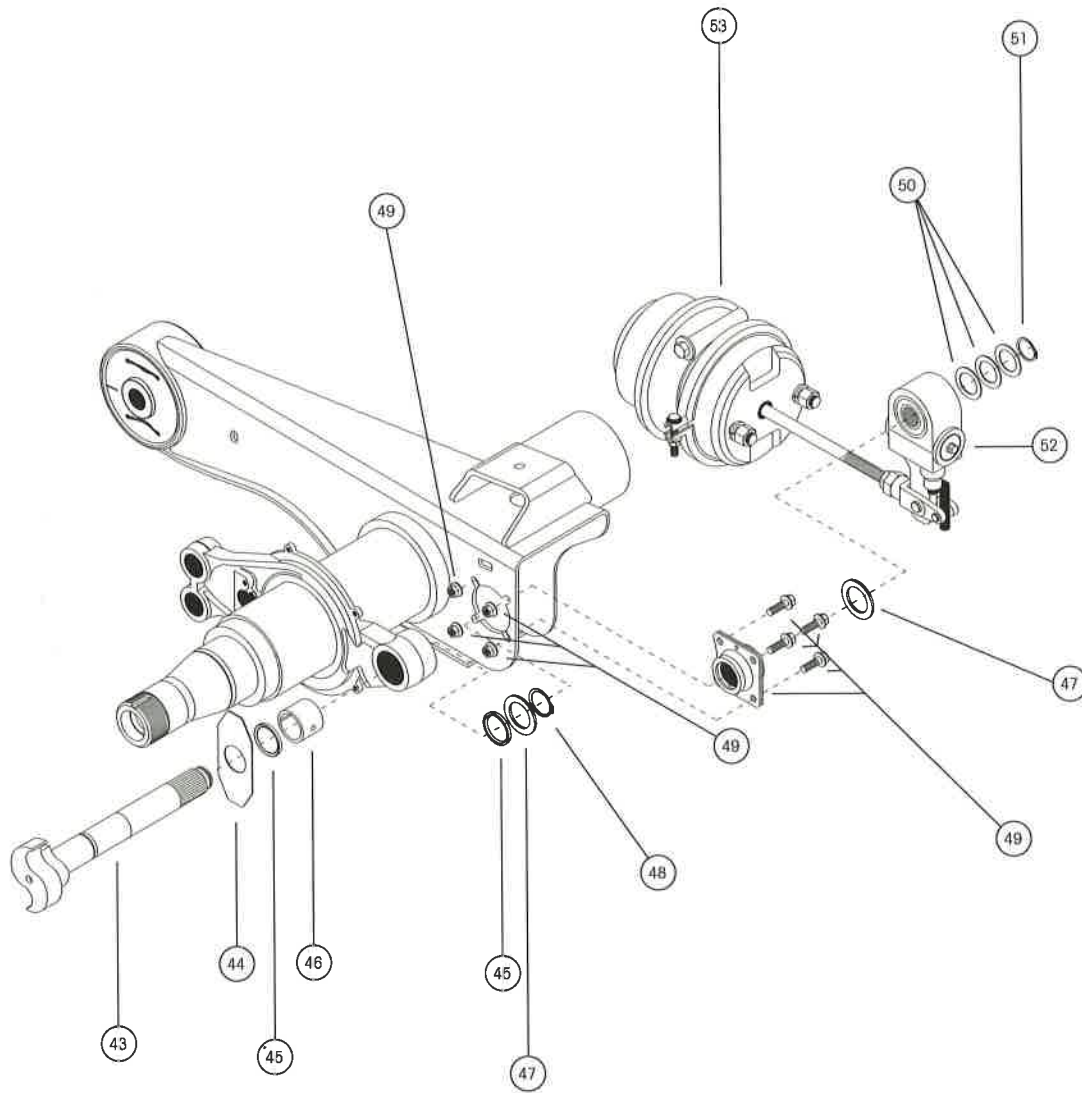
ITEM	DESCRIPTION	PART NO.	QTY	NOTE
33	AXLE NUT KIT			
	HN Spindle Type	S-20492/2	4	Includes inner axle nut, outer axle nut, lock washer and set screw
	HP Spindle Type	S-20475/2	4	Includes inner axle nut, outer axle nut, lock washer and set screw
34	ABS BRACKET KIT			
	HN Spindle Type	S-21064	2	Includes sensor bracket, bolts, lock nuts and flat washers
	HP Spindle Type	S-21070	2	Includes sensor bracket, bolts, lock nuts and flat washers
35	ANCHOR PIN³			Included in minor overhaul brake kits and major overhaul brake kits ¹
36	ANCHOR PIN BUSHING³			Included in minor overhaul brake kits and major overhaul brake kits ¹
37	BRAKE RETAINING SPRING³			Included in minor overhaul brake kits and major overhaul brake kits ¹
38	BRAKE SHOE ROLLER³			Included in brake shoe kits, minor overhaul brake kits and major overhaul brake kits ¹
39	ROLLER RETAINER³			Included in brake shoe kits, minor overhaul brake kits, major overhaul brake kits, axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
40	RETURN SPRING PIN³			Included in brake shoe kits, minor overhaul brake kits and major overhaul brake kits ¹
41	BRAKE RETURN SPRING³			Included in minor overhaul brake kits and major overhaul brake kits ¹
42	BRAKE SHOE³			
	16-1/2" x 7" Standard Service			
	Brake Shoe Kit ¹	S-21266-1 ²	4	ABEX 3030-197, FMSI 4515
	Major Overhaul Brake Kit ¹	S-21184-1 ²	4	ABEX 3030-197, FMSI 4515
	16-1/2" x 7" HXS™			
	Brake Shoe Kit ¹	S-23750-1	4	ABEX 3030-197, FMSI 4707
		S-23750-3	4	ABEX 931-162, FMSI 4707
	Major Overhaul Brake Kit ¹	S-23753-1	4	ABEX 3030-197, FMSI 4707
		S-23753-3	4	ABEX 931-162, FMSI 4707
	16-1/2" x 8-5/8" HXS™			
	Brake Shoe Kit ¹	S-23751-1	4	ABEX 3030-197, FMSI 4711
		S-23751-3	4	ABEX 931-162, FMSI 4711
Major Overhaul Brake Kit ¹	S-23754-1	4	ABEX 3030-197, FMSI 4711	
	S-23754-3	4	ABEX 931-162, FMSI 4711	

¹ See HKA180 VANTRAAX® Kit Components Section or Service Kit Section for kit breakdown.

² Other options exist. Contact Hendrickson for assistance.

³ Not sold separately.

PARTS LIST — S-CAM AND SLACK ADJUSTER COMPONENTS
MODEL HKA180 VANTRAAX® cont.





PARTS LIST — S-CAM AND SLACK ADJUSTER COMPONENTS
MODEL HKA180 VANTRAAX® cont.

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
43	S-CAM			
	Right Hand, 28 Spline Standard	S-20806-1R	2	
	Right Hand, 10 Spline Standard	S-21717-1R	2	Not for U.S. use
	Right Hand, 28 Spline HXS™	S-23347-1R	2	
	Left Hand, 28 Spline Standard	S-20806-1L	2	
	Left Hand, 10 Spline Standard	S-21717-1L	2	Not for U.S. use
	Left Hand, 28 Spline HXS™	S-23347-1L	2	
44	OUTER CAM WASHER ³			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
45	SPIDER SEAL ³			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
46	SPIDER CAMSHAFT BUSHING ³			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
47	S-CAM JOURNAL WASHER ³			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
48	SPIDER RETAINING RING ³			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
49	S-CAM SUPPORT BUSHING ASSEMBLY ³			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
50	SPLINE INNER WASHER ³			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
51	SPLINE RETAINING RING ³			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
52	SLACK ADJUSTER KITS (Per Wheel)			
	28 Spline, Gunite, 5-1/2"	S-21398-1	4	Includes unhanded autoslack, outer nut and inner sleeve
	28 Spline, Gunite, 6"	S-21398-2	4	Includes unhanded autoslack, outer nut and inner sleeve
	28 Spline, Haldex, 5-1/2"	S-21399-1	4	Includes unhanded autoslack, anchor stud, nut and slack adjuster clevis assembly
	28 Spline, Haldex, 6"	S-21399-2	4	Includes unhanded autoslack, anchor stud, nut and slack adjuster clevis assembly
	10 Spline, Gunite, 5-1/2"	S-15191-1	4	Includes unhanded autoslack, outer nut and inner sleeve; not for U.S. use
	10 Spline, Gunite, 6"	S-15191-2	4	Includes unhanded autoslack, outer nut and inner sleeve; not for U.S. use
	10 Spline, Haldex, 5-1/2"	S-15192-1	4	Includes unhanded autoslack, anchor stud, nut and slack adjuster clevis assembly; not for U.S. use
	10 Spline, Haldex, 6"	S-15192-2	4	Includes unhanded autoslack, anchor stud, nut and slack adjuster clevis assembly; not for U.S. use
53	BRAKE CHAMBER (11" from mounting face to center of clevis pin)			
	MGM 30/30	S-20837-1	4	
	MGM 30/30, LTRT, Long Stroke	C-24225	4	
	MGM 30/30, LTRT	C-24246	4	
	MGM 30/30, Long Stroke	C-24247-1	4	
	Haldex 30/30	S-20837-2	4	
	TSE 30/30	S-20837-3	4	
	Carlisle 30/30	C-20837-4	4	

¹ See HKA180 VANTRAAX® Kit Components Section or Service Kit Section for kit breakdown.

³ Not sold separately.

MODEL HKA180 VANTRAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
AIR SPRING MOUNTING KITS			
26	14" AND 18" RIDE HEIGHTS (Per Air Spring)		S-22635/2
	1/4"-18 NPTF Plug	1	
	Extension Nut Fitting, .65"	2	
	1/2"-13 Flanged Nut, Metal	1	
26	15" AND 19" RIDE HEIGHTS (Per Air Spring)		S-22631/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 2.10"	1	
	Extension Nut Fitting, 1.73"	2	
	1/2"-13 Flanged Nut, Metal	1	
	Plug	1	
26	15-1/2" RIDE HEIGHT (Per Air Spring)		S-22632/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 3.10"	1	
	Extension Nut Fitting, 2.65"	2	
	1/2"-13 Flanged Nut, Metal	1	
	Plug	1	
26	16" AND 17" RIDE HEIGHTS (Per Air Spring)		S-22619/2
	1/4"-18 NPTF Plug	1	
	1/2"-13 Flanged Nut, Metal	1	
	3/4"-16 Flanged Nut, Metal	2	
PIVOT BOLT/BUSHING KITS			
28	QUIK-ALIGN® PIVOT BOLT KIT (Per Hanger)⁴		S-23319
	7/8" Hardened Flat Washer	2	
	7/8"-9 UNC x 7" Grade 8, Hex Head Bolt	1	
	TORQ-RITE® Nut	1	
29	QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)⁴		S-23320
	7/8" Hardened Flat Washer	2	
	7/8"-9 UNC x 7" Grade 8, Hex Head Bolt	1	
	TORQ-RITE® Nut	1	
	Bushing Wear Pad	2	
	TRI-FUNCTIONAL® BUSHING	1	
	Lubricant Packet	1	
32	SHOCK ABSORBER BOLT KIT		S-24049/2
	Shock Spacer Assembly	1	
	3/4"-10 x 3-1/2" Hex Head Bolt	1	
	3/4" Hardened Flat Washer	2	
	3/4"-10 Lock Nut	1	
	3/4"-10 x 5-3/4" Shear Type Bolt	1	

⁴ Best installed with QUIK-ALIGN® Impact Sockets S-20947 (3/4" Drive Impact) or S-21058 (1" Drive Impact).



PARTS LIST — KIT COMPONENTS
MODEL HKA180 VANTRAAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
AXLE NUT KITS			
33	HN SPINDLE TYPE AXLE NUT KIT (Per Wheel)		S-20492/2
	Inner Axle Nut	1	
	Outer Axle Nut	1	
	Lock Washer	1	
	8"-32 x 3/8" Set Screw	1	
33	HP SPINDLE TYPE AXLE NUT KIT (Per Wheel)		S-20475/2
	Inner Axle Nut	1	
	Outer Axle Nut	1	
	Lock Washer	1	
	8"-32 x 3/8" Set Screw	1	
ABS BRACKET KITS			
34	HN SPINDLE TYPE ABS BRACKET KIT (Per Wheel)		S-21064
	Sensor Bracket	1	
	1/4"-20 x 1-3/4" Grade 8, Hex Head Bolt	2	
	1/4"-20 Grade 8, Lock Nut	2	
	1/4" Flat Washer	4	
34	HP SPINDLE TYPE ABS BRACKET KIT (Per Wheel)		S-21070
	Sensor Bracket	1	
	1/4"-20 x 1-3/4" Grade 8, Hex Head Bolt	2	
	1/4"-20 Grade 8, Lock Nut	2	
	1/4" Flat Washer	4	
BRAKE SHOE KITS			
BRAKE, SHOE KIT (Per Wheel)⁵			S-21266-1
42	Lined Brake Shoe	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKE, SHOE KIT (Per Wheel)⁵			S-23750-1
42	Lined Brake Shoe	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKE, SHOE KIT (Per Wheel)⁵			S-23750-3
42	Lined Brake Shoe	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKE, SHOE KIT (Per Wheel)⁵			S-23751-1
42	Lined Brake Shoe	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKE, SHOE KIT (Per Wheel)⁵			S-23751-3
42	Lined Brake Shoe	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	

⁵ See HKA180 VANTRAAX® Brake and Spindle Components Section for brake lining description.

PARTS LIST — KIT COMPONENTS

MODEL HKA180 VANTRAAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
BRAKE OVERHAUL KITS			
ALL STANDARD BRAKES, MINOR OVERHAUL KIT (Per Wheel)			S-21183
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
37	Brake Retaining Spring	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
41	Brake Return Spring	1	
ALL HXS™ BRAKES, MINOR OVERHAUL KIT (Per Wheel)			S-23752
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
37	Brake Retaining Spring	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
41	Brake Return Spring	1	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁵			S-21184-1
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
41	Brake Return Spring	1	
37	Brake Retaining Spring	2	
42	Lined Brake Shoes	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁵			S-23753-1
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
41	Brake Return Spring	1	
37	Brake Retaining Spring	2	
42	Lined Brake Shoes	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁵			S-23753-3
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
41	Brake Return Spring	1	
37	Brake Retaining Spring	2	
42	Lined Brake Shoes	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁵			S-23754-1
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
41	Brake Return Spring	1	
37	Brake Retaining Spring	2	
42	Lined Brake Shoes	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	

⁵ See HKA180 VANTRAAX® Brake and Spindle Components Section for brake lining description.

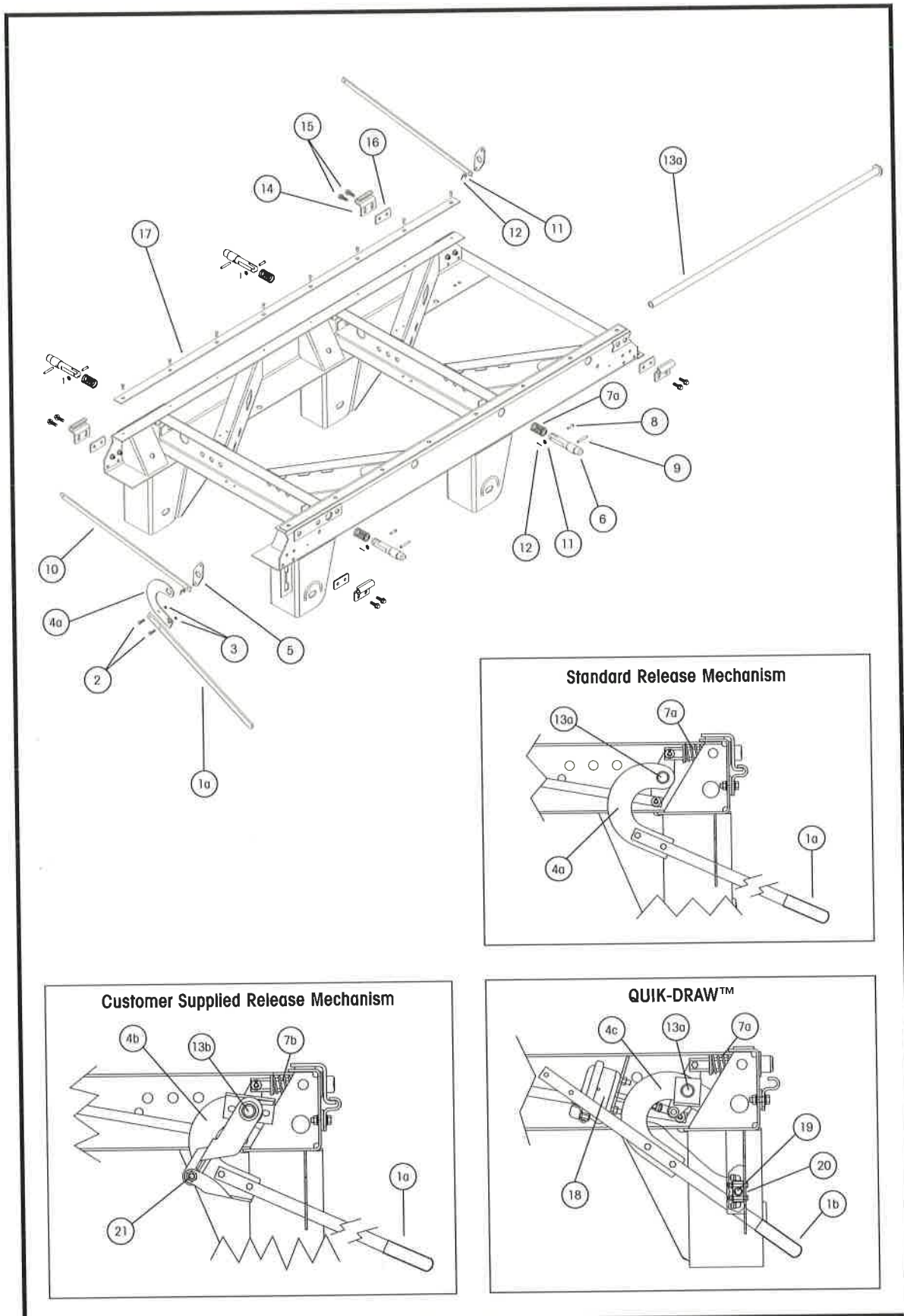


PARTS LIST — KIT COMPONENTS
MODEL HKA180 VANTRAAX® cont.

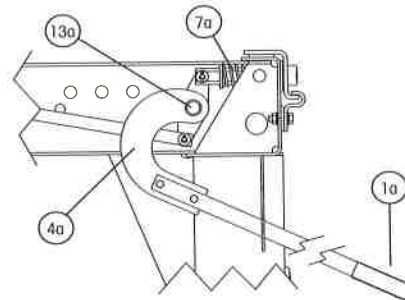
ITEM	DESCRIPTION	QTY	PART NO.
BRAKE OVERHAUL KITS (CONTINUED)			
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁵			S-23754-3
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
41	Brake Return Spring	1	
37	Brake Retaining Spring	2	
42	Lined Brake Shoes	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKE CONVERSION TO HXS™ KITS			
16-1/2" x 7", HXS™, ABEX 3030-197, FMSI 4707			S-23756-1
44	Outer Cam Washer	2	
41	Brake Return Spring	2	
42	Lined Brake Shoe	4	
38	Brake Shoe Roller	4	
39	Roller Retainer	4	
40	Return Spring Pin	4	
43	S-cam	2	
16-1/2" x 8-5/8" HXS™, ABEX 3030-197, FMSI 4711			S-23757-1
44	Outer Cam Washer	2	
41	Brake Return Spring	2	
42	Lined Brake Shoe	4	
38	Brake Shoe Roller	4	
39	Roller Retainer	4	
40	Return Spring Pin	4	
43	S-cam	2	
S-CAM OVERHAUL KITS			
AXLE S-CAM MAJOR OVERHAUL KIT (Per Axle)			S-23974
48	Spider Retaining Ring	2	
51	Spline Retaining Ring	2	
47	S-cam Journal Washer	4	
46	Spider Camshaft Bushing	2	
44	Outer Cam Washer	2	
49	S-cam Support Bushing Assembly	2	
45	Spider Seal	4	
50	Spline Inner Washer	6	
39	Roller Retainer	2	
WHEEL S-CAM MAJOR OVERHAUL KIT (Per Wheel)			S-23974/2
48	Spider Retaining Ring	1	
51	Spline Retaining Ring	1	
47	S-cam Journal Washer	2	
46	Spider Camshaft Bushing	1	
44	Outer Cam Washer	1	
49	S-cam Support Bushing Assembly	1	
45	Spider Seal	2	
50	Spline Inner Washer	3	
39	Roller Retainer	1	

⁵ See HKA180 VANTRAAX® Brake and Spindle Components Section for brake lining description.

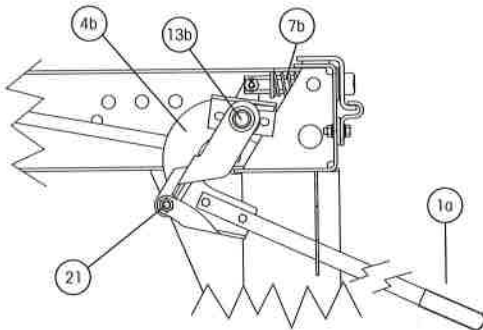
MODEL HKA200/HKA250 VANTRAX®



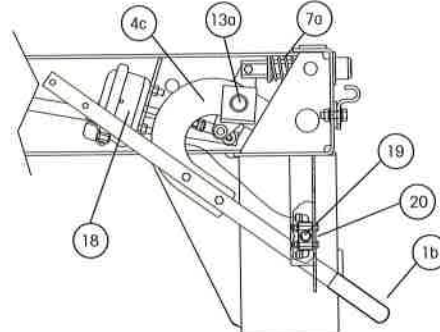
Standard Release Mechanism



Customer Supplied Release Mechanism



QUIK-DRAW™



SLIDER SUSPENSIONS

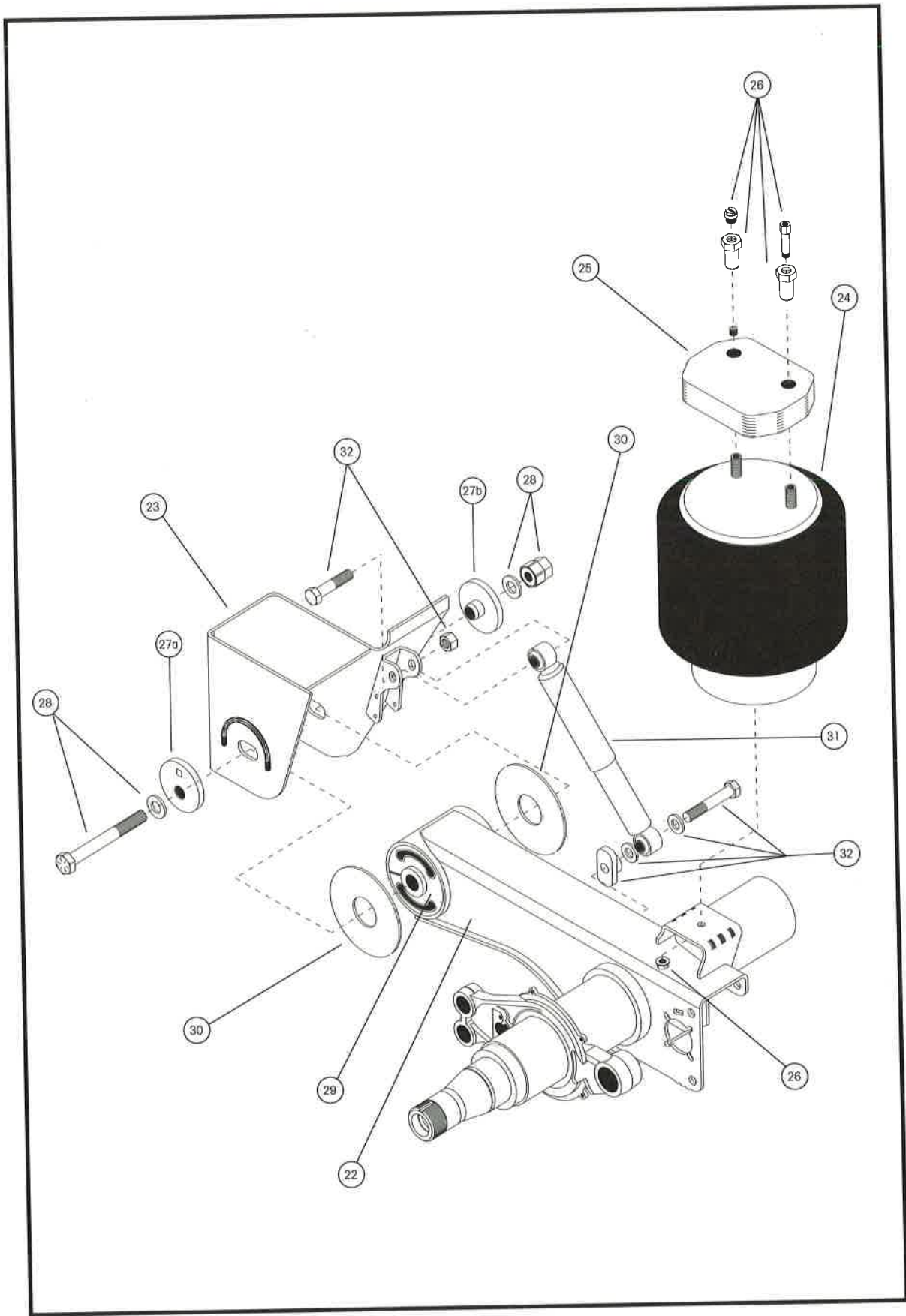


PARTS LIST — SLIDER BOX COMPONENTS
MODEL HKA200/HKA250 VANTRAX[®]

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
1	HANDLE			
1a	Standard and Customer Supplied Release Mechanism	B-21505	1	
1b	QUIK-DRAW™	B-22923	1	
2	HANDLE BOLT	SA-1100-10	2	3/8"-16 x 1-1/4" hex head bolt, grade 5
3	HANDLE NUT	SA-9000-5	2	3/8"-16 lock nut, grade B
4	HANDLE MOUNT			
4a	Standard Release Mechanism	C-23232	1	
4b	Customer Supplied Release Mechanism	C-23530	1	
4c	QUIK-DRAW™	C-23231	1	
5	CRANK ARM WELDMENT			
	Standard Release Mechanism and Customer Supplied Release Mechanism	B-23149	2	For front and rear of slider box
	QUIK-DRAW™	B-23149	1	For rear of slider box
		B-22659	1	For front of slider box
6	LOCKING PIN			
	1-3/8" Dia. Pin	B-21456	4	6" body rail hole spacing
	1-5/8" Dia. Pin	B-21431	4	4" body rail hole spacing
7	LOCKING PIN SPRING			
7a	Standard Release Mechanism and QUIK-DRAW™	B-23165	4	
7b	Customer Supplied Release Mechanism	B-22000	4	Length and spring tension differ from above
8	CLEVIS PIN	SA-5200-6	4	3/8" x 1-3/8"
9	SPRING PIN	SA-8100-4	4	3/8" x 2-1/2" roll pin
10	LOCKING PIN LINK			
	42" Box	B-23150-1	2	
	48" Box	B-23150-2	2	
11	LOCKING PIN LINK WASHER	SA-1500-2	6	3/8" I.D. flat washer
12	LOCKING PIN LINK COTTER PIN	SA-1700-12	6	3/32" x 1" cotter pin
13	PIPE WELDMENT			
13a	Standard Release Mechanism and QUIK-DRAW™	B-21433	1	
13b	Customer Supplied Release Mechanism	B-21433-1	1	
14	BODY RAIL CLIP			
	Old Style	S-14108	4	Hole centers measure 1-1/2"
	New Style	B-22366	4	Hole centers measure 2"
15	BODY RAIL BOLT	SA-6900-2	8	1/2"-13 x 1-1/2" flanged bolt, grade 8
16	BODY RAIL CLIP SPACER			
	Old Style Box with Shims	A-21282	4	Hole centers measure 1-1/2"
	New Style Box with Shims	A-22367	4	Hole centers measure 2"
17	SLIDER WEAR PAD KIT	S-14342-3	2	
18	BRAKE CHAMBER	A-23039	1	Type 12 modified
19	AIR VALVE	A-22947	1	
20	VALVE CAP	A-22977	1	
21	CRANK ARM BOLT KIT	A-22041	1	Includes bolt, flat washer, lock washer and nut

SLIDER SUSPENSIONS

CONTACT HENDRICKSON TO ORDER A SLIDER BOX ASSEMBLY THAT INCLUDES FRAME BRACKETS AND MOST SLIDER COMPONENTS.



SLIDER SUSPENSIONS



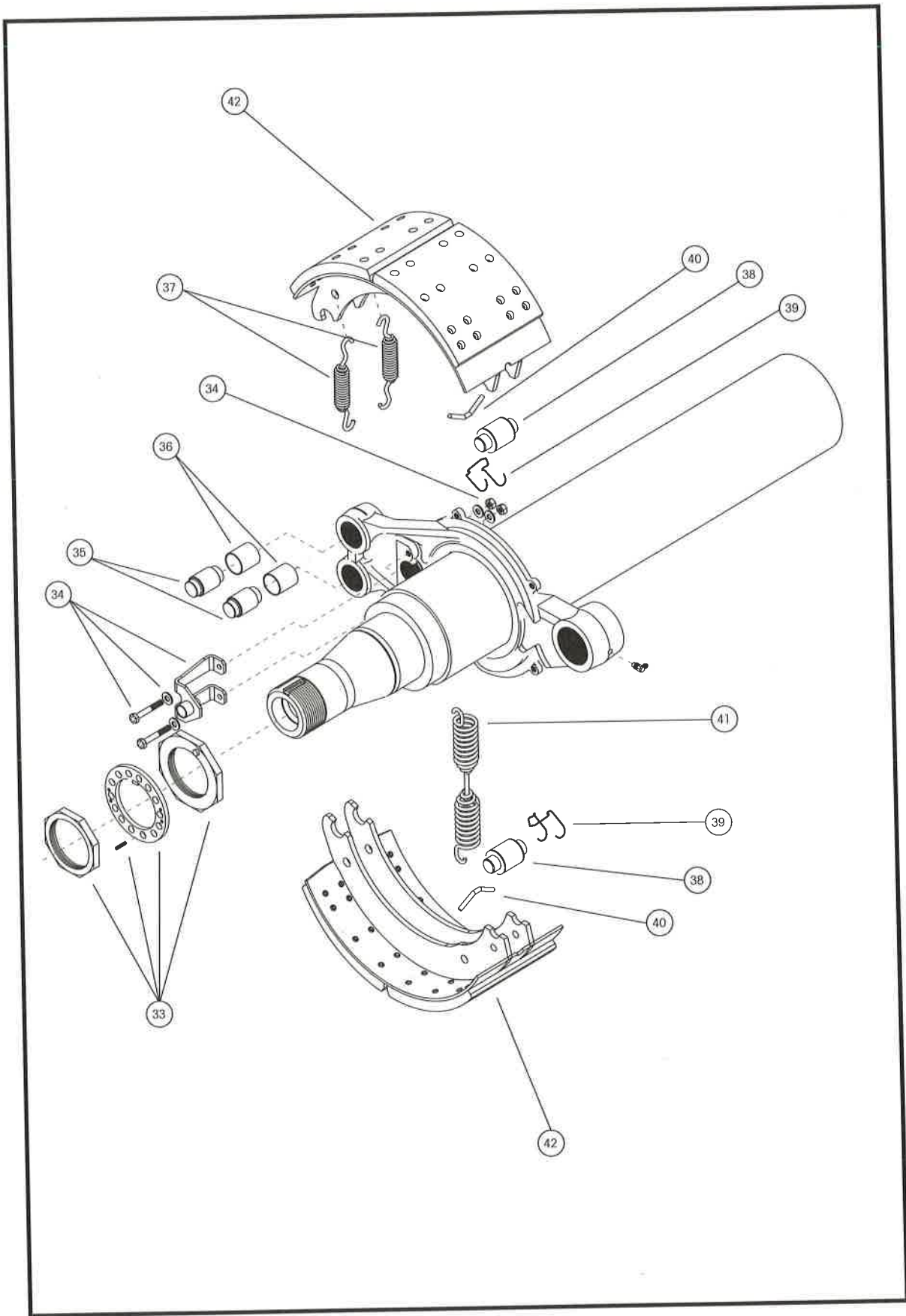
PARTS LIST — SUSPENSION AND AXLE COMPONENTS
MODEL HKA200/HKA250 VANTRAAX® cont.

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
22	AXLE/BEAM WELDMENT			Contact Hendrickson for assistance.
23	FRAME BRACKET			Contact Hendrickson for assistance.
24	AIR SPRING			
	For HKA200 Units	S-21966	4	Use to replace C-21966 air spring
	For HKA250 Units	S-21784	4	Includes disk assembly; use to replace C-20901 air spring
25	AIR SPRING SPACER			
	1- ¹ / ₈ " Thick Spacer	B-22510-1	4	Typically 17" ride height
	1- ⁷ / ₈ " Thick Spacer	B-22510-2	4	Typically 18" ride height
	3- ¹ / ₈ " Thick Spacer	B-22510-3	4	Typically 19" ride height; also used on model # HKA250C-473
26	AIR SPRING MOUNTING KIT ¹ (Per Air Spring)			
	16" Ride Height	S-22619/2	4	For units without a spacer
	17" Ride Height	S-22630/2	4	For units with a 1- ¹ / ₈ " thick spacer
	18" Ride Height	S-22631/2	4	For units with a 1- ⁷ / ₈ " thick spacer
	19" Ride Height	S-22632/2	4	For units with a 3- ¹ / ₈ " thick spacer; also used on model # HKA250C-473
27	ALIGNMENT COLLARS			
27a	Eccentric, QUIK-ALIGN®	S-20925	4	Pivot bolt hole is offset from center of collar
27b	Concentric, QUIK-ALIGN®	S-20924	4	Pivot bolt hole is in center of collar
28	QUIK-ALIGN® PIVOT BOLT KIT ¹	S-21052	4	Includes bolt, TORQ-RITE® Nut and washers
29	QUIK-ALIGN® PIVOT BUSHING KIT ¹	S-21166	4	Includes bushing, pivot bolt kit, wear pads and lube
30	BUSHING WEAR PAD	S-11613	8	Four (4) required per axle
31	SHOCK ABSORBER ²			
	Standard Duty	S-23566	4	Use to replace A-20002 or B-23566 shock absorbers
	Extended Service	S-24125	4	Use to replace A-20126 or B-24125 shock absorbers
32	SHOCK ABSORBER BOLT KIT ¹	S-24021 ³	4	One (1) required per shock

¹ See HKA200/HKA250 VANTRAAX® Kit Components Section or Service Kit Section for kit breakdown.

² Other options exist. Contact Hendrickson for assistance.

³ Picture depicted may not resemble all models. This kit contains components necessary to repair all HKA200/HKA250 VANTRAAX® models, regardless of date of manufacture.



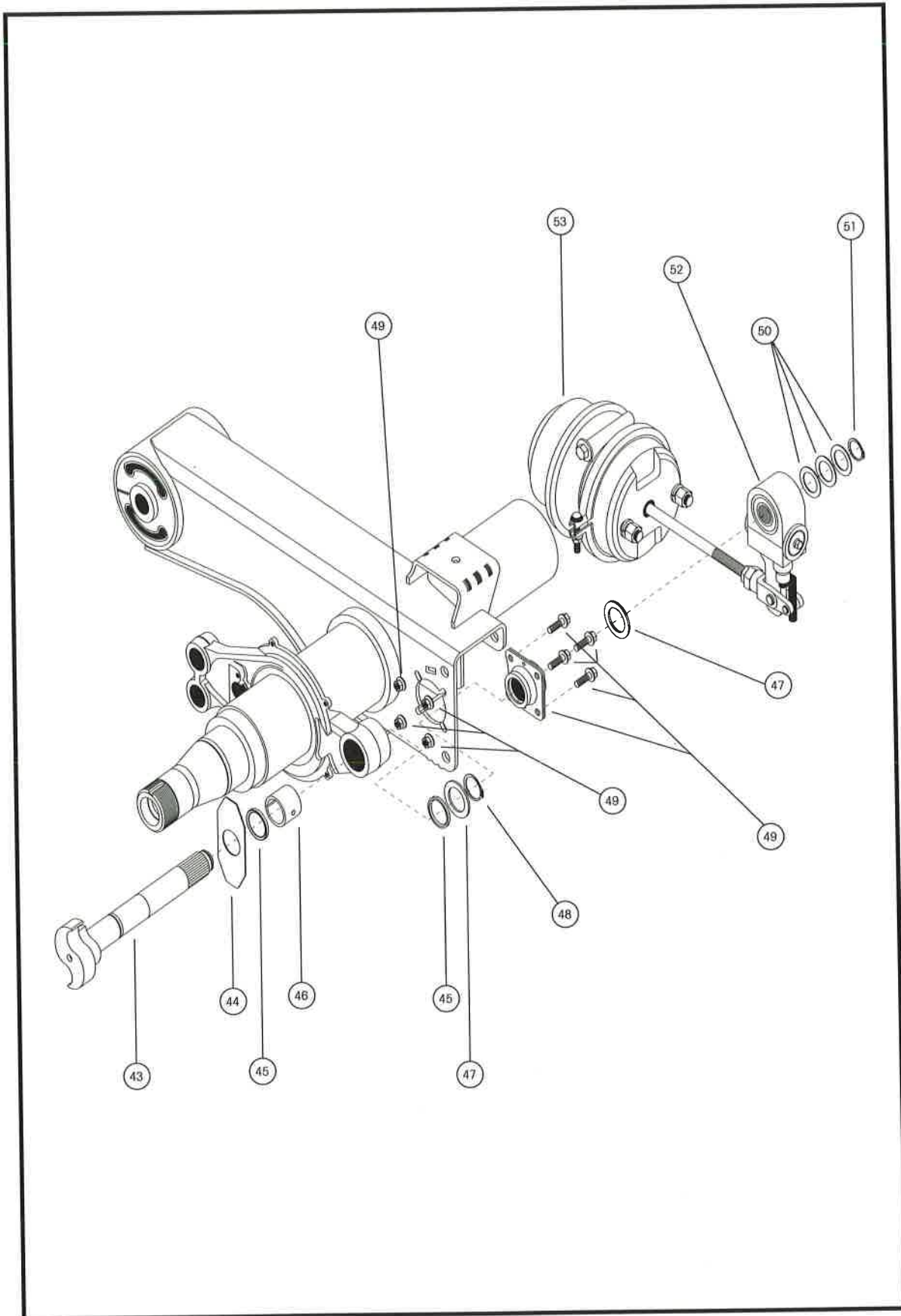


PARTS LIST — BRAKE AND SPINDLE COMPONENTS

MODEL HKA200/HKA250 VANTRAAX® cont.

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
33	AXLE NUT KIT			
	HN Spindle Type	S-20492/2	4	Includes inner axle nut, outer axle nut, lock washer and set screw
	HP Spindle Type	S-20475/2	4	Includes inner axle nut, outer axle nut, lock washer and set screw
34	ABS BRACKET KIT			
	HN Spindle Type	S-21064	2	Includes sensor bracket, bolts, lock nuts and flat washers
	HP Spindle Type	S-21070	2	Includes sensor bracket, bolts, lock nuts and flat washers
35	ANCHOR PIN ⁴			Included in minor overhaul brake kits and major overhaul brake kits ¹
36	ANCHOR PIN BUSHING ⁴			Included in minor overhaul brake kits and major overhaul brake kits ¹
37	BRAKE RETAINING SPRING ⁴			Included in minor overhaul brake kits and major overhaul brake kits ¹
38	BRAKE SHOE ROLLER ⁴			Included in brake shoe kits, minor overhaul brake kits and major overhaul brake kits ¹
39	ROLLER RETAINER ⁴			Included in brake shoe kits, minor overhaul brake kits, major overhaul brake kits, axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
40	RETURN SPRING PIN ⁴			Included in brake shoe kits, minor overhaul brake kits and major overhaul brake kits ¹
41	BRAKE RETURN SPRING ⁴			Included in minor overhaul brake kits and major overhaul brake kits ¹
42	BRAKE SHOE ⁴			
	16-1/2" x 7" Standard Service			
	Brake Shoe Kit ¹	S-21266-1 ²	4	ABEX 3030-197, FMSI 4515
	Major Overhaul Brake Kit ¹	S-21184-1 ²	4	ABEX 3030-197, FMSI 4515
	16-1/2" x 7" HXS™			
	Brake Shoe Kit ¹	S-23750-1	4	ABEX 3030-197, FMSI 4707
		S-23750-3	4	ABEX 931-162, FMSI 4707
	Major Overhaul Brake Kit ¹	S-23753-1	4	ABEX 3030-197, FMSI 4707
		S-23753-3	4	ABEX 931-162, FMSI 4707
	16-1/2" x 8-5/8" HXS™			
	Brake Shoe Kit ¹	S-23751-1	4	ABEX 3030-197, FMSI 4711
		S-23751-3	4	ABEX 931-162, FMSI 4711
	Major Overhaul Brake Kit ¹	S-23754-1	4	ABEX 3030-197, FMSI 4711
		S-23754-3	4	ABEX 931-162, FMSI 4711

¹ See HKA200/HKA250 VANTRAAX® Kit Components Section or Service Kit Section for kit breakdown.² Other options exist. Contact Hendrickson for assistance.⁴ Not sold separately.





PARTS LIST — S-CAM AND SLACK ADJUSTER COMPONENTS
MODEL HKA200/HKA250 VANTRAAX® cont.

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
43	S-CAM			
	Right Hand, 28 Spline Standard	S-20806-1R	2	
	Right Hand, 10 Spline Standard	S-21717-1R	2	Not for U.S. use
	Right Hand, 28 Spline HXS™	S-23347-1R	2	
	Left Hand, 28 Spline Standard	S-20806-1L	2	
	Left Hand, 10 Spline Standard	S-21717-1L	2	Not for U.S. use
	Left Hand, 28 Spline HXS™	S-23347-1L	2	
44	OUTER CAM WASHER⁴			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
45	SPIDER SEAL⁴			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
46	SPIDER CAMSHAFT BUSHING⁴			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
47	S-CAM JOURNAL WASHER⁴			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
48	SPIDER RETAINING RING⁴			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
49	S-CAM SUPPORT BUSHING ASSEMBLY⁴			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
50	SPLINE INNER WASHER⁴			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
51	SPLINE RETAINING RING⁴			Included in axle S-cam major overhaul kits and wheel S-cam major overhaul kits ¹
52	SLACK ADJUSTER KITS (Per Wheel)			
	28 Spline, Gunite, 5-1/2"	S-21398-1	4	Includes unhandled autoslack, outer nut and inner sleeve
	28 Spline, Gunite, 6"	S-21398-2	4	Includes unhandled autoslack, outer nut and inner sleeve
	28 Spline, Haldex, 5-1/2"	S-21399-1	4	Includes unhandled autoslack, anchor stud, nut and slack adjuster clevis assembly
	28 Spline, Haldex, 6"	S-21399-2	4	Includes unhandled autoslack, anchor stud, nut and slack adjuster clevis assembly
	10 Spline, Gunite, 5-1/2"	S-15191-1	4	Includes unhandled autoslack, outer nut and inner sleeve; not for U.S. use
	10 Spline, Gunite, 6"	S-15191-2	4	Includes unhandled autoslack, outer nut and inner sleeve; not for U.S. use
	10 Spline, Haldex, 5-1/2"	S-15192-1	4	Includes unhandled autoslack, anchor stud, nut and slack adjuster clevis assembly; not for U.S. use
	10 Spline, Haldex, 6"	S-15192-2	4	Includes unhandled autoslack, anchor stud, nut and slack adjuster clevis assembly; not for U.S. use
53	BRAKE CHAMBER (11" from mounting face to center of clevis pin)			
	MGM 30/30	S-20837-1	4	
	MGM 30/30, LTRT, Long Stroke	C-24225	4	
	MGM 30/30, LTRT	C-24246	4	
	MGM 30/30, Long Stroke	C-24247-1	4	
	Haldex 30/30	S-20837-2	4	
	TSE 30/30	S-20837-3	4	
	Carlisle 30/30	C-20837-4	4	

¹ See HKA200/HKA250 VANTRAAX® Kit Components Section or Service Kit Section for kit breakdown.

⁴ Not sold separately.

MODEL HKA200/HKA250 VANTRAAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
AIR SPRING MOUNTING KITS			
26	16" RIDE HEIGHT / NO SPACER (Per Air Spring)		S-22619/2
	1/4"-18 NPTF Plug	1	
	1/2"-13 Flanged Nut, Metal	1	
	3/4"-16 Flanged Nut, Metal	2	
26	17" RIDE HEIGHT / 1-1/8" THICK SPACER (Per Air Spring)		S-22630/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 1.10"	1	
	Extension Nut Fitting, .65"	2	
	1/2"-13 Flanged Nut, Metal	1	
26	18" RIDE HEIGHT / 1-7/8" THICK SPACER (Per Air Spring)		S-22631/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 2.10"	1	
	Extension Nut Fitting, 1.73"	2	
	1/2"-13 Flanged Nut, Metal	1	
	Plug	1	
26	19" RIDE HEIGHT / 3-1/8" THICK SPACER (Per Air Spring)		S-22632/2
	1/4"-18 NPTF Plug	1	
	Air Fitting, 3.10"	1	
	Extension Nut Fitting, 2.65"	2	
	1/2"-13 Flanged Nut, Metal	1	
	Plug	1	
PIVOT BOLT/BUSHING KITS			
28	QUIK-ALIGN® PIVOT BOLT KIT (Per Hanger)⁵		S-21052
	7/8" Hardened Flat Washer	2	
	7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
	TORQ-RITE® Nut	1	
29	QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)⁵		S-21166
	7/8" Hardened Flat Washer	2	
	7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
	TORQ-RITE® Nut	1	
	Bushing Wear Pad	2	
	TRI-FUNCTIONAL® II BUSHING	1	
	Lubricant Packet	1	
32	SHOCK ABSORBER BOLT KIT⁶		S-24021
	Shock Spacer – Zinc Coated	1	
	Shock Spacer Assembly	1	
	3/4"-10 x 3-1/2" Hex Head Bolt	1	
	3/4"-16 x 4-1/2" Hex Head Cap Screw	1	
	3/4" Hardened Flat Washer	2	
	3/4"-10 Lock Nut	2	
	3/4"-10 x 5-3/4" Shear Type Bolt	1	
	Shock Backing Plate	1	

⁵ Best installed with QUIK-ALIGN® Impact Sockets S-20947 (3/4" Drive Impact) or S-21058 (1" Drive Impact).

⁶ This kit contains components necessary to repair all HKA200/HKA250 VANTRAAX® models, regardless of date of manufacture.

**MODEL HKA200/HKA250 VANTRAAX® cont.**

ITEM	DESCRIPTION	QTY	PART NO.
AXLE NUT KITS			
33	HN SPINDLE TYPE AXLE NUT KIT (Per Wheel)		S-20492/2
	Inner Axle Nut	1	
	Outer Axle Nut	1	
	Lock Washer	1	
	8"-32 x 3/8" Set Screw	1	
33	HP SPINDLE TYPE AXLE NUT KIT (Per Wheel)		S-20475/2
	Inner Axle Nut	1	
	Outer Axle Nut	1	
	Lock Washer	1	
	8"-32 x 3/8" Set Screw	1	
ABS BRACKET KITS			
34	HN SPINDLE TYPE ABS BRACKET KIT (Per Wheel)		S-21064
	Sensor Bracket	1	
	1/4"-20 x 1-3/4" Grade 8, Hex Head Bolt	2	
	1/4"-20 Grade 8, Lock Nut	2	
	1/4" Flat Washer	4	
34	HP SPINDLE TYPE ABS BRACKET KIT (Per Wheel)		S-21070
	Sensor Bracket	1	
	1/4"-20 x 1-3/4" Grade 8, Hex Head Bolt	2	
	1/4"-20 Grade 8, Lock Nut	2	
	1/4" Flat Washer	4	
BRAKE SHOE KITS			
	BRAKE, SHOE KIT (Per Wheel)⁷		S-21266-1
42	Lined Brake Shoe	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
	BRAKE, SHOE KIT (Per Wheel)⁷		S-23750-1
42	Lined Brake Shoe	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
	BRAKE, SHOE KIT (Per Wheel)⁷		S-23750-3
42	Lined Brake Shoe	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
	BRAKE, SHOE KIT (Per Wheel)⁷		S-23751-1
42	Lined Brake Shoe	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
	BRAKE, SHOE KIT (Per Wheel)⁷		S-23751-3
42	Lined Brake Shoe	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	

⁷ See HKA200/HKA250 VANTRAAX® Brake and Spindle Components Section for brake lining description.

MODEL HKA200/HKA250 VANTRAAX® cont.

ITEM	DESCRIPTION	QTY	PART NO.
BRAKE OVERHAUL KITS			
ALL STANDARD BRAKES, MINOR OVERHAUL KIT (Per Wheel)			S-21183
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
37	Brake Retaining Spring	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
41	Brake Return Spring	1	
ALL HXS™ BRAKES, MINOR OVERHAUL KIT (Per Wheel)			S-23752
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
37	Brake Retaining Spring	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
41	Brake Return Spring	1	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁷			S-21184-1
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
41	Brake Return Spring	1	
37	Brake Retaining Spring	2	
42	Lined Brake Shoes	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁷			S-23753-1
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
41	Brake Return Spring	1	
37	Brake Retaining Spring	2	
42	Lined Brake Shoes	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁷			S-23753-3
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
41	Brake Return Spring	1	
37	Brake Retaining Spring	2	
42	Lined Brake Shoes	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	

⁷ See HKA200/HKA250 VANTRAAX® Brake and Spindle Components Section for brake lining description.

**MODEL HKA200/HKA250 VANTRAAX® cont.**

ITEM	DESCRIPTION	QTY	PART NO.
BRAKE OVERHAUL KITS (CONTINUED)			
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁷			S-23754-1
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
41	Brake Return Spring	1	
37	Brake Retaining Spring	2	
42	Lined Brake Shoes	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)⁷			S-23754-3
35	Anchor Pin	2	
36	Anchor Pin Bushing	2	
41	Brake Return Spring	1	
37	Brake Retaining Spring	2	
42	Lined Brake Shoes	2	
38	Brake Shoe Roller	2	
39	Roller Retainer	2	
40	Return Spring Pin	2	
BRAKE CONVERSION TO HXS™ KITS			
16-1/2" x 7", HXS™, ABEX 3030-197, FMSI 4707			S-23756-1
44	Outer Cam Washer	2	
41	Brake Return Spring	2	
42	Lined Brake Shoe	4	
38	Brake Shoe Roller	4	
39	Roller Retainer	4	
40	Return Spring Pin	4	
43	S-cam	2	
16-1/2" x 8-5/8" HXS™, ABEX 3030-197, FMSI 4711			S-23757-1
44	Outer Cam Washer	2	
41	Brake Return Spring	2	
42	Lined Brake Shoe	4	
38	Brake Shoe Roller	4	
39	Roller Retainer	4	
40	Return Spring Pin	4	
43	S-cam	2	

⁷ See HKA200/HKA250 VANTRAAX® Brake and Spindle Components Section for brake lining description.

MODEL HKA200/HKA250 VANTRAX[®] cont.

ITEM	DESCRIPTION	QTY	PART NO.
S-CAM OVERHAUL KITS			
AXLE S-CAM MAJOR OVERHAUL KIT FOR UNITS			S-21181
SHIPPED BEFORE 11/24/97 (Per Axle)			
48	Spider Retaining Ring	2	
51	Spline Retaining Ring	2	
47	S-cam Journal Washer	4	
46	Spider Camshaft Bushing	2	
44	Outer Cam Washer	2	
49	S-cam Support Bushing Assembly	2	
45	Spider Seal	4	
50	Spline Inner Washer	6	
39	Roller Retainer	2	
AXLE S-CAM MAJOR OVERHAUL KIT FOR UNITS			S-23974
SHIPPED AFTER 11/24/97 (Per Axle)			
48	Spider Retaining Ring	2	
51	Spline Retaining Ring	2	
47	S-cam Journal Washer	4	
46	Spider Camshaft Bushing	2	
44	Outer Cam Washer	2	
49	S-cam Support Bushing Assembly	2	
45	Spider Seal	4	
50	Spline Inner Washer	6	
39	Roller Retainer	2	
WHEEL S-CAM MAJOR OVERHAUL KIT FOR UNITS			S-21181/2
SHIPPED BEFORE 11/24/97 (Per Wheel)			
48	Spider Retaining Ring	1	
51	Spline Retaining Ring	1	
47	S-cam Journal Washer	2	
46	Spider Camshaft Bushing	1	
44	Outer Cam Washer	1	
49	S-cam Support Bushing Assembly	1	
45	Spider Seal	2	
50	Spline Inner Washer	3	
39	Roller Retainer	1	
WHEEL S-CAM MAJOR OVERHAUL KIT FOR UNITS			S-23974/2
SHIPPED AFTER 11/24/97 (Per Wheel)			
48	Spider Retaining Ring	1	
51	Spline Retaining Ring	1	
47	S-cam Journal Washer	2	
46	Spider Camshaft Bushing	1	
44	Outer Cam Washer	1	
49	S-cam Support Bushing Assembly	1	
45	Spider Seal	2	
50	Spline Inner Washer	3	
39	Roller Retainer	1	



SLIDER ACCESSORIES

SLIDER SUSPENSIONS

DESCRIPTION	PART NO.	QTY	NOTE
BODY RAILS (Length/Hole Centers/Index/Hole Diameter)			
			Two per slider ¹
184LN / 6HC / 2NDX / 1-3/8"	RAILC.3	2	
192LN / 6HC / 3NDX / 1-3/8"	RAILC.4	2	
198LN / 6HC / 3NDX / 1-3/8"	RAILC.5	2	
200LN / 6HC / 4NDX / 1-3/8"	RAILC.6	2	
210LN / 6HC / 3NDX / 1-3/8"	RAILC.8	2	
212LN / 6HC / 4NDX / 1-3/8"	RAILC.40	2	
216LN / 6HC / 3NDX / 1-3/8"	RAILC.9	2	
224LN / 6HC / 4NDX / 1-3/8"	RAILC.11	2	
232LN / 6HC / 2NDX / 1-3/8"	RAILC.13	2	
232LN / 6HC / 2NDX / 1-3/8"	RAILC.26	2	Rail shipped unpainted
234LN / 6HC / 3NDX / 1-3/8"	RAILC.14	2	
236LN / 6HC / 4NDX / 1-3/8"	RAILC.15	2	
240LN / 6HC / 3NDX / 1-3/8"	RAILC.16	2	
246LN / 6HC / 2NDX / 1-3/8"	RAILC.17	2	
248LN / 6HC / 4NDX / 1-3/8"	RAILC.18	2	
MANUAL STOP BARS (One Per Slider)			
42" Box with 1-3/8" Dia. Pins	B-14231-2	1	Typically for 6" center-to-center hole spacing
48" Box with 1-3/8" Dia. Pins	B-14231-8	1	Typically for 6" center-to-center hole spacing
42" Box with 1-5/8" Dia. Pins	B-21477-2	1	Typically for 4" center-to-center hole spacing
48" Box with 1-5/8" Dia. Pins	B-21477-8	1	Typically for 4" center-to-center hole spacing
MUD FLAP BRACKETS			
42" Box	S-22428-2	1	One per slider; not available on HS190/230
48" Box	S-22428-8	1	One per slider; not available on HS190/230
DUST SHIELD			
Clamp-on Style	S-23579/2	4	Two per axle

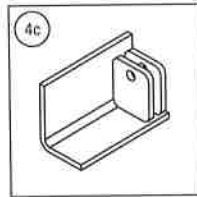
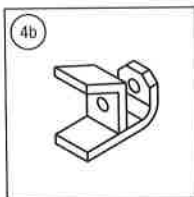
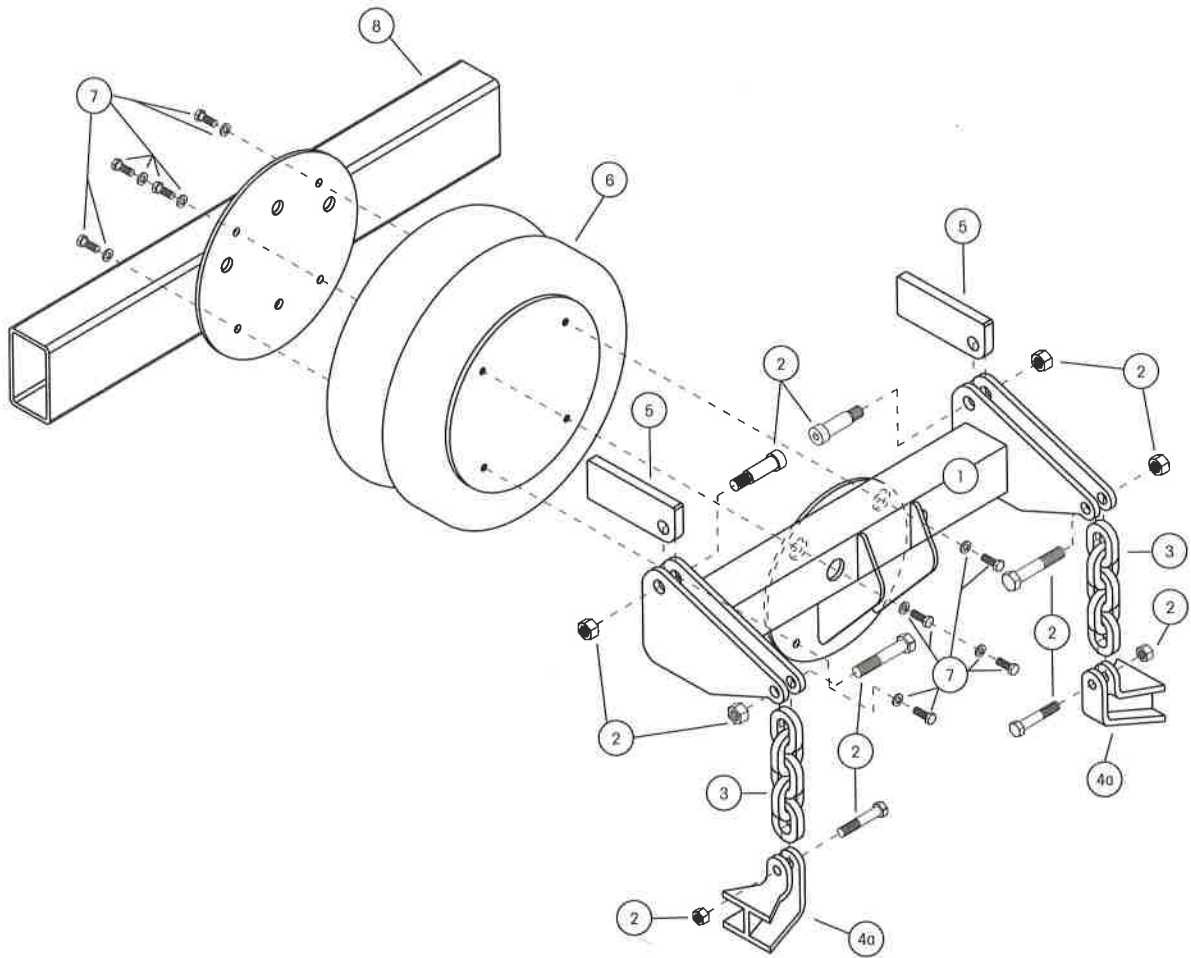
¹ Length is overall. The hole center dimension is the measurement from center-to-center of rail holes. Index is the measurement from the end of the rail to the center of the first hole. Other lengths exist. Rails are also available with 4" center-to-center hole spacing and 1-5/8" hole diameter. Contact Hendrickson for assistance.



SECTION CONTENTS

DESCRIPTION	PAGE
MODEL CL PARTS LIST .....	.156
MODEL HTCL PARTS LIST .....	.158

PARTS LIST
MODEL CL

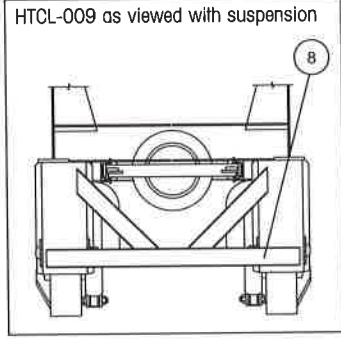
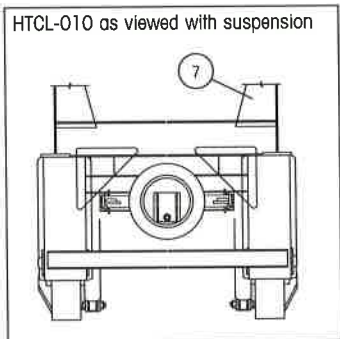
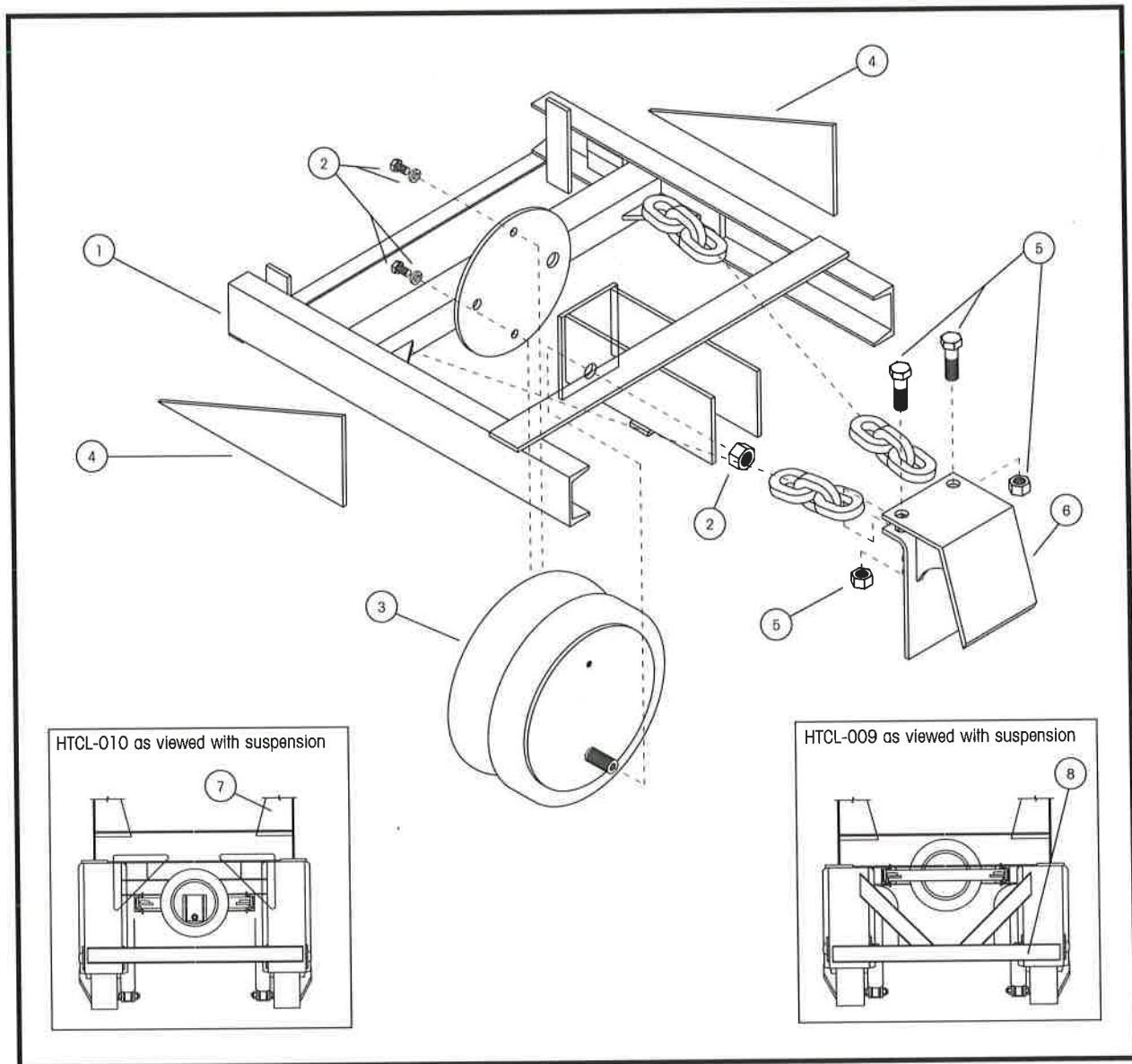




PARTS LIST
MODEL CL

ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (CL- ?)		
1	CENTER LIFT ASSEMBLY	C-5560	1	100	101	
		C-6311	1	102	103	
		C-15233	1	104A		
		C-15232	1	105A		
		C-15239	1	106A		
		C-15240	1	107A		
		C-8961	1	092		
2	CENTER LIFT BOLT KIT ¹	A-12446	1	100	101	102
				103	104A	106A
		A-4256	1	105A	107A	
		A-20237	1	092		
3	CHAIN	SA-9600-3	2	100	102	104A
					106A	
		SA-9600-5	2	101	103	105A
					107A	
		SA-9600-7	2	092		
4a	BEAM CLEVIS	C-10340	2	100	101	102
				103	104A	106A
4b	CLEVIS ASSEMBLY	B-4292	2	105A	107A	
4c	CHAIN BRACKET ASSEMBLY					
		Roadside	C-20233-1	1	092	
	Curbside	C-20233-2	1	092		
5	PIVOT PLATE	A-5588	2	ALL		
6	AIR SPRING	B-1080	1	100	101	102
				103	092	
		B-2734	1	104A	105A	106A
				107A		
7	AIR SPRING BOLT KIT ¹	A-5571	1	ALL		
8	SUPPORT TUBE ASSEMBLY	B-5567	1	100	101	104A
				105A		
		B-6312	1	102	103	106A
			107A	092		

¹ See Service Kits Section for kit breakdown.



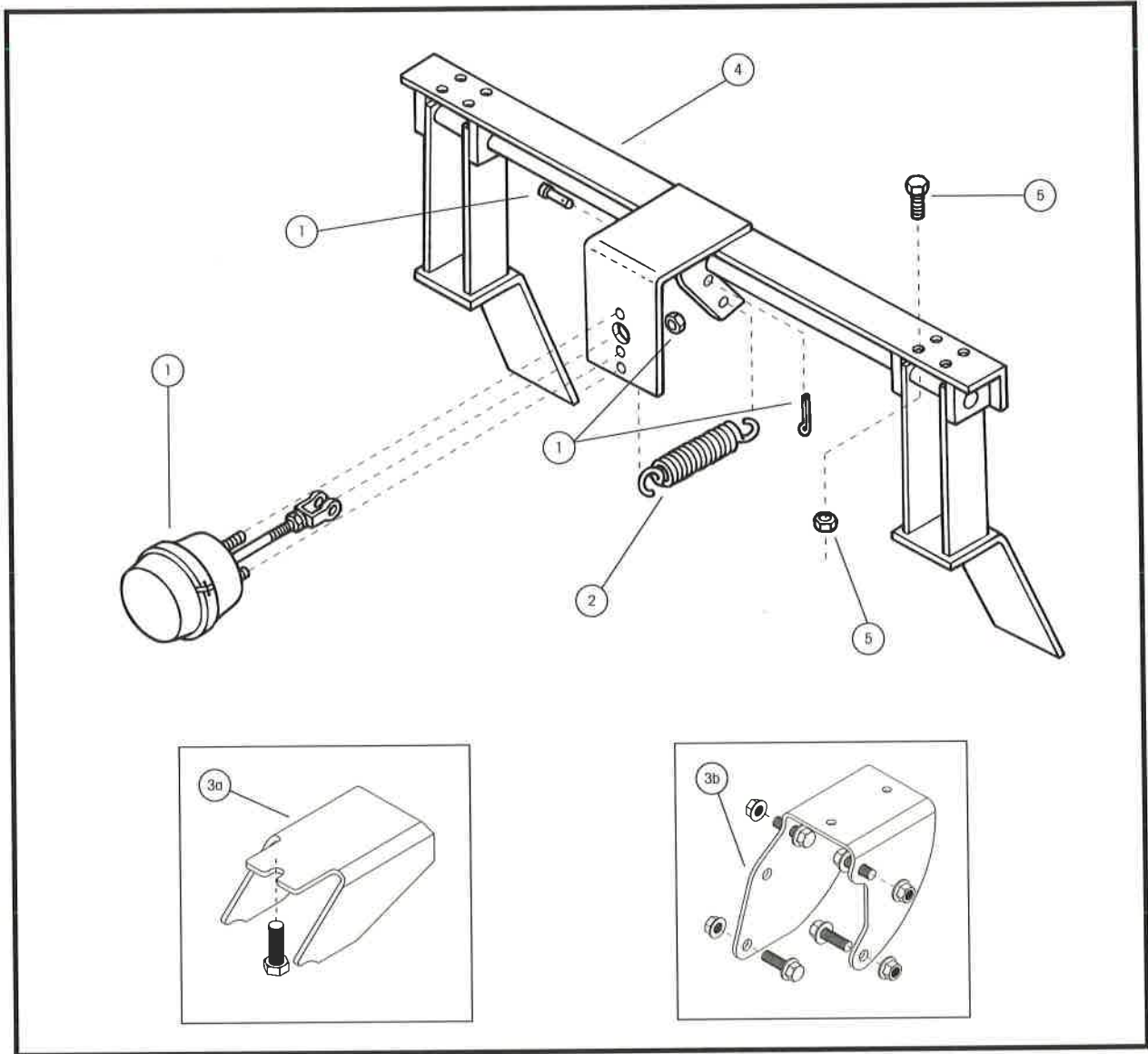
ITEM	DESCRIPTION	PART NO.	QTY	MODEL NO. (HTCL- ?)
1	GUIDE RAIL ASSEMBLY	D-20080	1	001 002 003 010
		D-20080-1	1	009
2	AIR SPRING BOLT KIT ¹	A-20079	1	ALL
3	AIR SPRING	B-6242	1	ALL
4	GUSSET	A-23303	2	ALL
5	CHAIN BOLT KIT ¹	A-20078	1	ALL
6	AXLE BRACKET ASSEMBLY	C-20085	1	001 010
		C-20244	1	002 003 009
7	FRAME BRACKET SUPPORT GUSSET	A-14177	2	010
8	FRAME BRACKET CHANNEL	A-1631-19	1	009

¹ See Service Kits Section for kit breakdown.



SECTION CONTENTS

DESCRIPTION	PAGE
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SURELOK® – RIDE HEIGHT LOCKING DEVICE

ITEM	DESCRIPTION	PART NO.	QTY	NOTE
1	ACTUATOR	Contact Hendrickson	1	Includes mounting hardware
2	SPRING	Contact Hendrickson	1	
3	BEAM EXTENSION			
3a	For HT Models	Contact Hendrickson	2	Certain models only
3b	For INTRAAX® Models	Contact Hendrickson	2	Certain models only
4	RIDE HEIGHT LOCK ASSEMBLY	Contact Hendrickson	1	
5	MOUNTING HARDWARE	Contact Hendrickson	varies	

NOTE: PICTURE DOES NOT DEPICT ALL MODELS AVAILABLE. CONTACT HENDRICKSON FOR RETROFIT KITS. SURELOK® MODELS WITH IDENTIFICATION TAGS WILL READ SLK ?.



SECTION CONTENTS

DESCRIPTION	PAGE
AIR SPRING MOUNTING KITS — KIT COMPONENTS . . . . .	.162
AIR SPRING BOLT KITS — KIT COMPONENTS . . . . .	.163
PIVOT BOLT KITS — KIT COMPONENTS . . . . .	.164
PIVOT BUSHING KITS — KIT COMPONENTS . . . . .	.166
SHOCK ABSORBER BOLT KITS — KIT COMPONENTS . . . . .	.170
AXLE NUT KITS — KIT COMPONENTS . . . . .	.171
ABS BRACKET KITS — KIT COMPONENTS . . . . .	.171
BRAKE SHOE KITS — KIT COMPONENTS . . . . .	.172
BRAKE OVERHAUL KITS — KIT COMPONENTS . . . . .	.172
BRAKE CONVERSION TO HXS™ KITS — KIT COMPONENTS . . . . .	.174
SLACK ADJUSTER KITS — KIT COMPONENTS175
S-CAM OVERHAUL KITS — KIT COMPONENTS176
U-BOLT KITS — KIT COMPONENTS177
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CRANK ARM BOLT KIT — KIT COMPONENTS178
CHAIN BOLT KITS — KIT COMPONENTS179
CENTER LIFT BOLT KITS — KIT COMPONENTS179
KIT USAGE — QUICK REFERENCE CHART . . . . .	.180

PARTS LIST — KIT COMPONENTS

AIR SPRING MOUNTING KITS

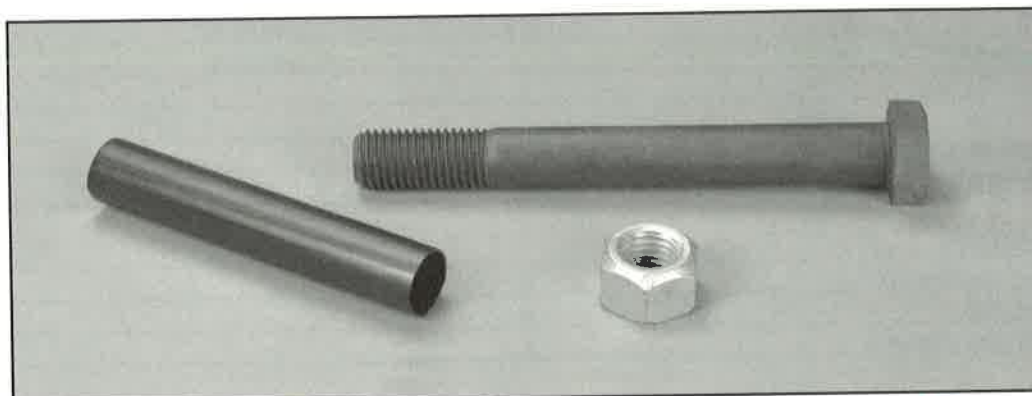
DESCRIPTION	QTY	PART NO.
AIR SPRING MOUNTING KIT		S-22619/2
1/4"-18 NPTF Plug	1	
1/2"-13 Flanged Nut, Metal	1	
3/4"-16 Flanged Nut, Metal	2	
AIR SPRING MOUNTING KIT		S-22630/2
1/4"-18 NPTF Plug	1	
Air Fitting, 1.10"	1	
Extension Nut Fitting, .65"	2	
1/2"-13 Flanged Nut, Metal	1	
AIR SPRING MOUNTING KIT		S-22631/2
1/4"-18 NPTF Plug	1	
Air Fitting, 2.10"	1	
Extension Nut Fitting, 1.73"	2	
1/2"-13 Flanged Nut, Metal	1	
Plug	1	
AIR SPRING MOUNTING KIT		S-22632/2
1/4"-18 NPTF Plug	1	
Air Fitting, 3.10"	1	
Extension Nut Fitting, 2.65"	2	
1/2"-13 Flanged Nut, Metal	1	
Plug	1	
AIR SPRING MOUNTING KIT		S-22635/2
1/4"-18 NPTF Plug	1	
Extension Nut Fitting, .65"	2	
1/2"-13 Flanged Nut, Metal	1	
AIR SPRING MOUNTING KIT		S-22907/2
1/4"-18 NPTF Plug	1	
1/2"-13 Flanged Screw	2	
3/4"-16 Flanged Nut, Metal	2	
AIR SPRING MOUNTING KIT		S-22908/2
1/4"-18 NPTF Plug	1	
Extension Nut Fitting, .65"	2	
3/4"-16 Flanged Nut, Metal	2	
AIR SPRING MOUNTING KIT		S-22909/2
1/4"-18 NPTF Plug	1	
Air Fitting, 2.10"	1	
Extension Nut Fitting, 1.73"	2	
3/4"-16 Flanged Nut, Metal	2	
Plug	1	
AIR SPRING MOUNTING KIT		S-22910/2
1/4"-18 NPTF Plug	1	
Air Fitting, 3.10"	1	
Extension Nut Fitting, 2.65"	2	
3/4"-16 Flanged Nut, Metal	2	
Plug	1	



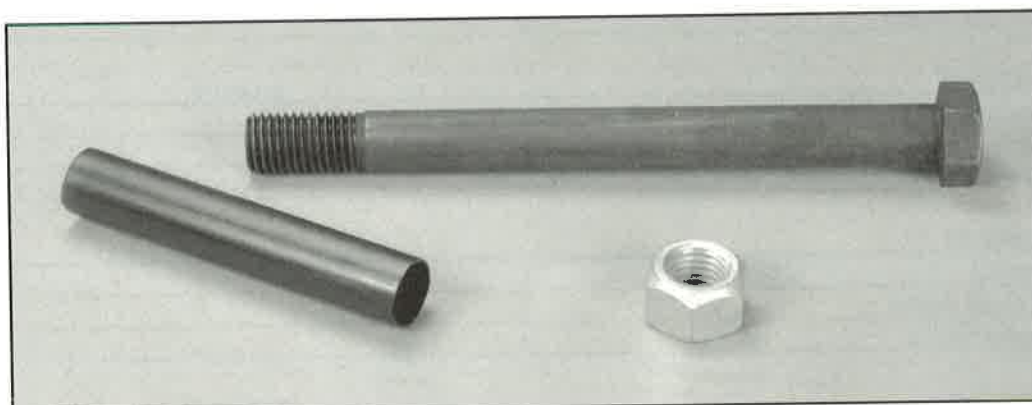
PARTS LIST — KIT COMPONENTS
AIR SPRING BOLT KITS

DESCRIPTION	QTY	PART NO.
AIR SPRING BOLT KIT		A-2348
1/2"-13 Hex Nut	1	
3/4"-16 Hex Nut	1	
1/2" Helical Lock Washer	1	
3/4"-10 Hex Nut	1	
AIR SPRING BOLT KIT		A-2378
1/2"-13 x 1" Hex Head Bolt	2	
1/2"-13 Hex Nut	4	
1/2" Helical Lock Washer	2	
AIR SPRING BOLT KIT		A-5571
3/8"-16 x 1" Hex Head Bolt	8	
3/8" Helical Lock Washer	8	
AIR SPRING BOLT KIT		A-20079
3/8"-16 x 7/8" Hex Head Bolt	2	
3/4"-16 Hex Nut	1	
3/8" Helical Lock Washer	2	
AIR SPRING BOLT KIT		S-1981/2
1/2"-13 Hex Nut	1	
3/4"-16 Hex Nut	1	
Flanged Screw 1/2"-13	2	
AIR SPRING BOLT KIT		S-20033/2
3/4"-16 Hex Nut	1	
3/4" Helical Lock Washer	1	
Flanged Screw 1/2"-13	2	
AIR SPRING BOLT KIT		S-20313/2
1/2"-13 x 2-3/4" Hex Head Bolt	2	
1/2"-13 Hex Nut	1	
3/4"-16 Hex Nut	1	
1/2" Helical Lock Washer	2	
AIR SPRING BOLT KIT		S-4093/2
3/4"-16 Hex Nut	2	
1/4-NPTF PLUG	1	
Flanged Screw 1/2"-13	2	

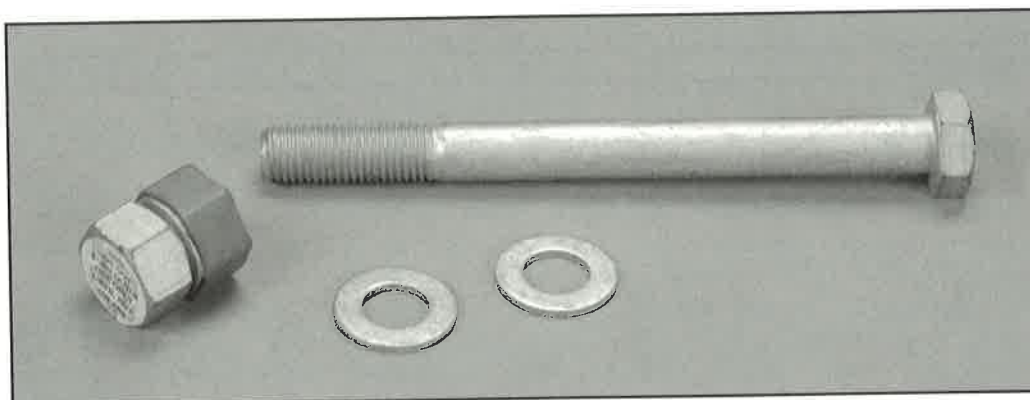
PARTS LIST — KIT COMPONENTS
PIVOT BOLT KITS



DESCRIPTION	QTY	PART NO.
WELDED ALIGNMENT PIVOT BOLT KIT (Per Hanger)		S-3646
Delrin Liner	1	
1-1/8"-7 x 9-3/4" Cap Screw	1	
1-1/8"-7 Hex Nut	1	



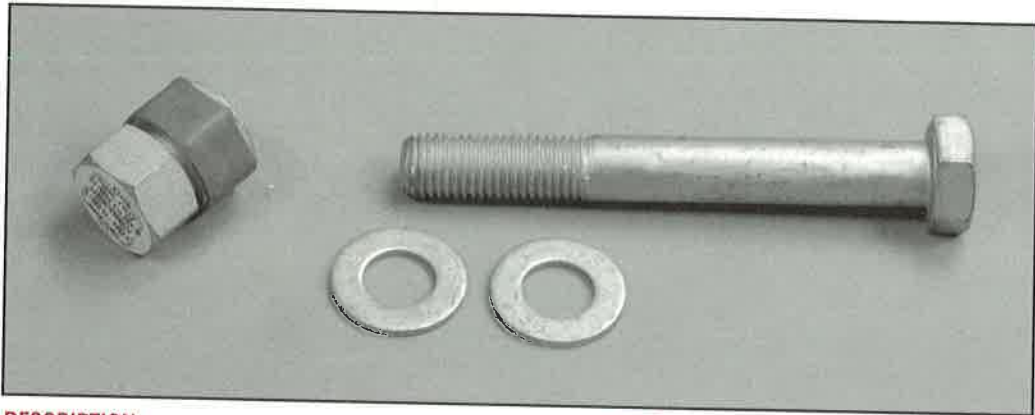
DESCRIPTION	QTY	PART NO.
WELDED ALIGNMENT PIVOT BOLT KIT (Per Hanger)		S-7345
Delrin Liner	1	
1-1/8"-7 x 12-1/2" Cap Screw	1	
1-1/8"-7 Hex Nut	1	



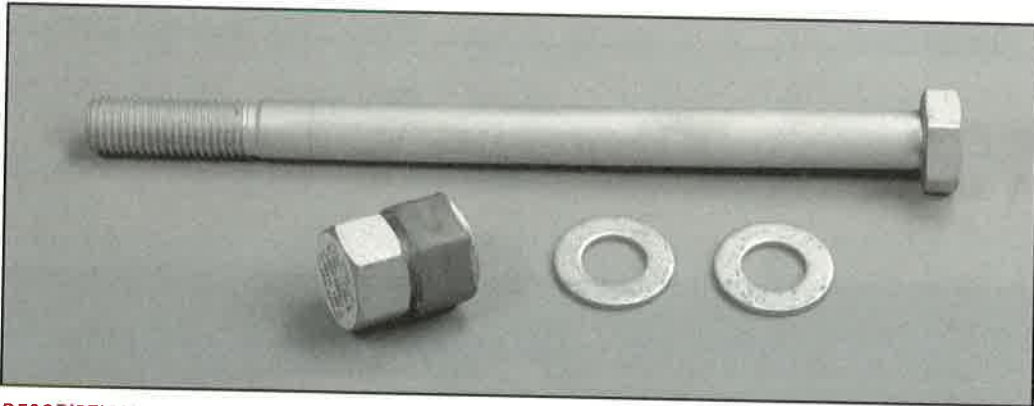
DESCRIPTION	QTY	PART NO.
QUIK-ALIGN® PIVOT BOLT KIT (Per Hanger)		S-21052
7/8" Hardened Flat Washer	2	
7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
TORQ-RITE® Nut	1	



PARTS LIST — KIT COMPONENTS
PIVOT BOLT KITS cont.



DESCRIPTION	QTY	PART NO.
QUIK-ALIGN® PIVOT BOLT KIT (Per Hanger)		S-23319
7/8" Hardened Flat Washer	2	
7/8"-9 UNC x 7" Grade 8, Hex Head Bolt	1	
TORQ-RITE® Nut	1	

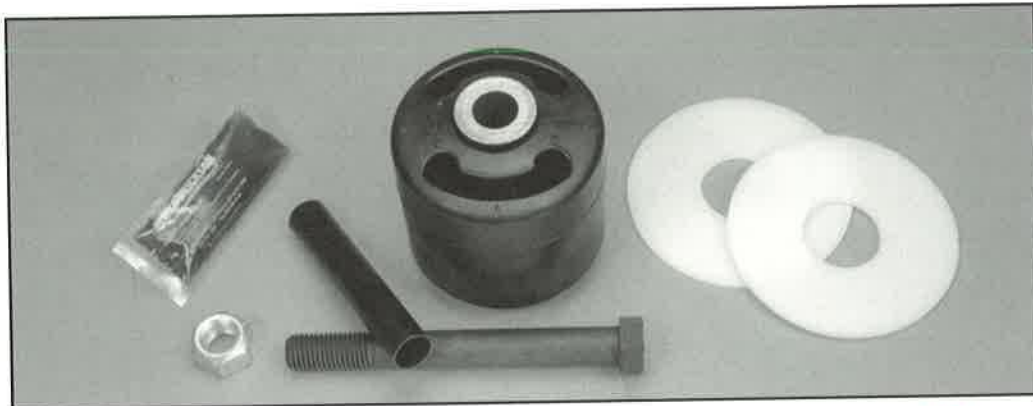


DESCRIPTION	QTY	PART NO.
QUIK-ALIGN® PIVOT BOLT KIT (Per Hanger)		S-24593
7/8" Hardened Flat Washer	2	
7/8"-9 UNC x 12-1/2" Grade 8, Hex Head Bolt	1	
TORQ-RITE® Nut	1	

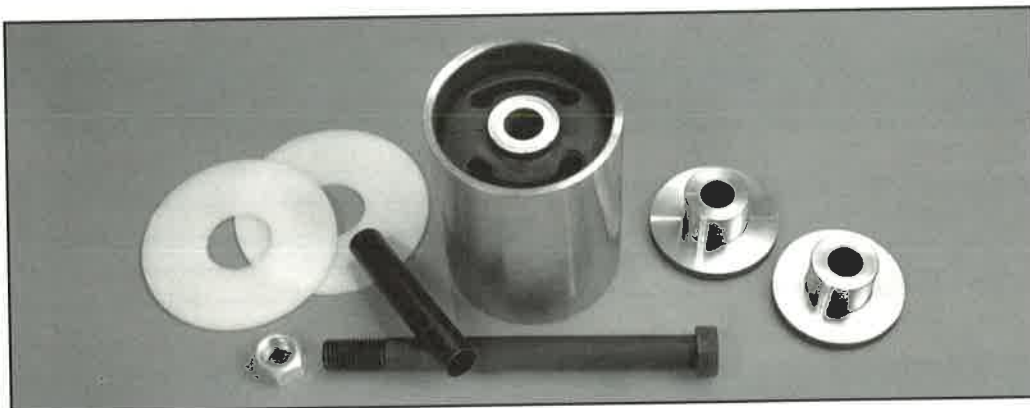


DESCRIPTION	QTY	PART NO.
QUIK-ALIGN® PIVOT BOLT KIT (Per Hanger)		S-24679
7/8" Hardened Flat Washer	2	
7/8"-9 x 10" Shear Type Bolt	1	
7/8"-9 UNC Prevailing Torque Heavy Hex Nut	1	

PARTS LIST — KIT COMPONENTS
PIVOT BUSHING KITS



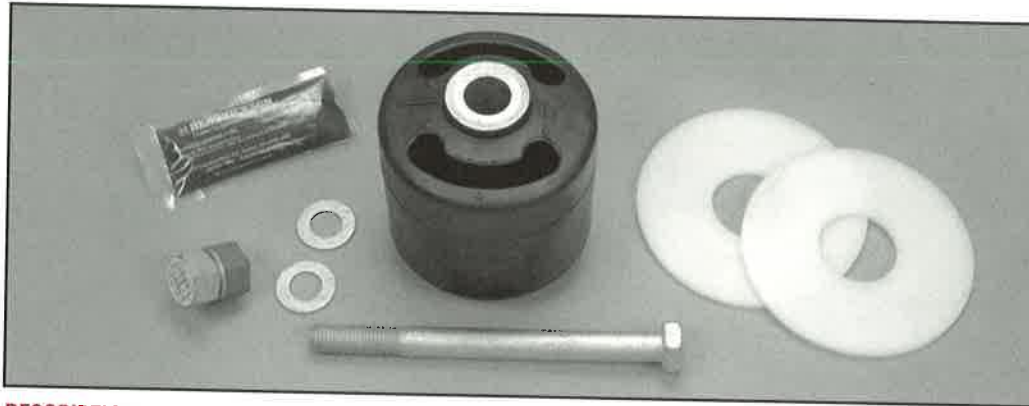
DESCRIPTION	QTY	PART NO.
WELDED ALIGNMENT PIVOT BUSHING KIT (Per Hanger)		A-6914
Delrin Liner	1	
1-1/8"-7 x 9-3/4" Cap Screw	1	
1-1/8"-7 Hex Nut	1	
Bushing Wear Pad	2	
TRI-FUNCTIONAL® II BUSHING	1	
Lubricant Packet	1	



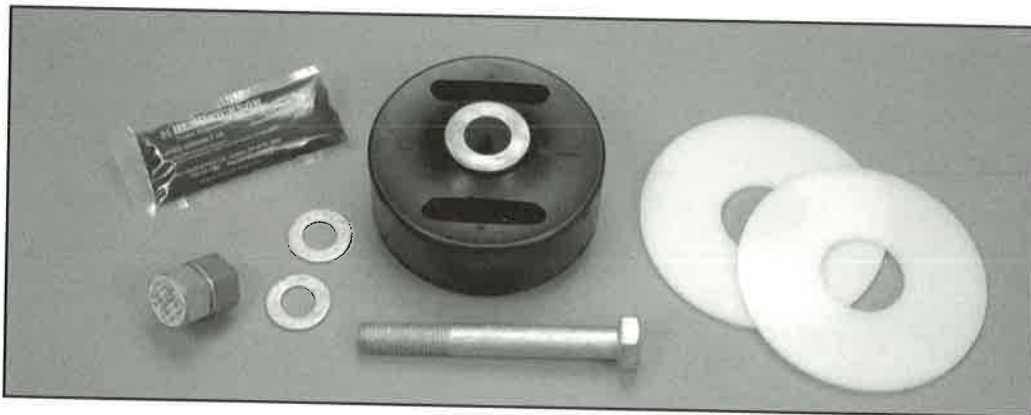
DESCRIPTION	QTY	PART NO.
WELDED ALIGNMENT PIVOT BUSHING KIT (Per Hanger)		A-13136
Delrin Liner	1	
1-1/8"-7 x 12-1/2" Cap Screw	1	
1-1/8"-7 Hex Nut	1	
Bushing Wear Pad	2	
TRI-FUNCTIONAL® II BUSHING Assembly	1	
Alignment Collar	2	



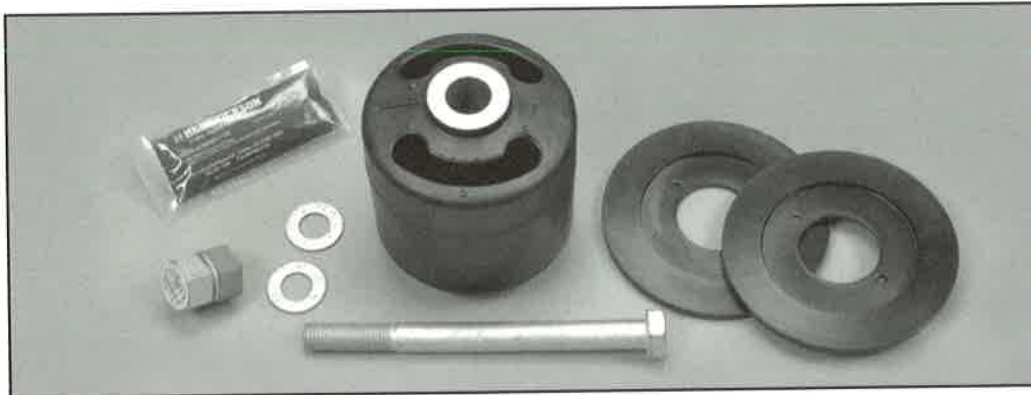
PARTS LIST — KIT COMPONENTS
PIVOT BUSHING KITS cont.



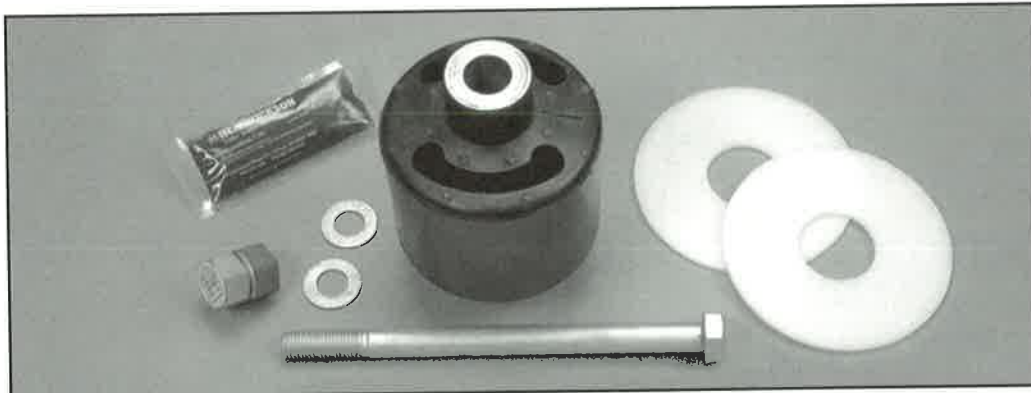
DESCRIPTION	QTY	PART NO.
QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)		S-21166
7/8" Hardened Flat Washer	2	
7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
TORQ-RITE® Nut	1	
Bushing Wear Pad	2	
TRI-FUNCTIONAL® II BUSHING	1	
Lubricant Packet	1	



DESCRIPTION	QTY	PART NO.
QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)		S-23320
7/8" Hardened Flat Washer	2	
7/8"-9 UNC x 7" Grade 8, Hex Head Bolt	1	
TORQ-RITE® Nut	1	
Bushing Wear Pad	2	
TRI-FUNCTIONAL® III BUSHING	1	
Lubricant Packet	1	

PIVOT BUSHING KITS cont.

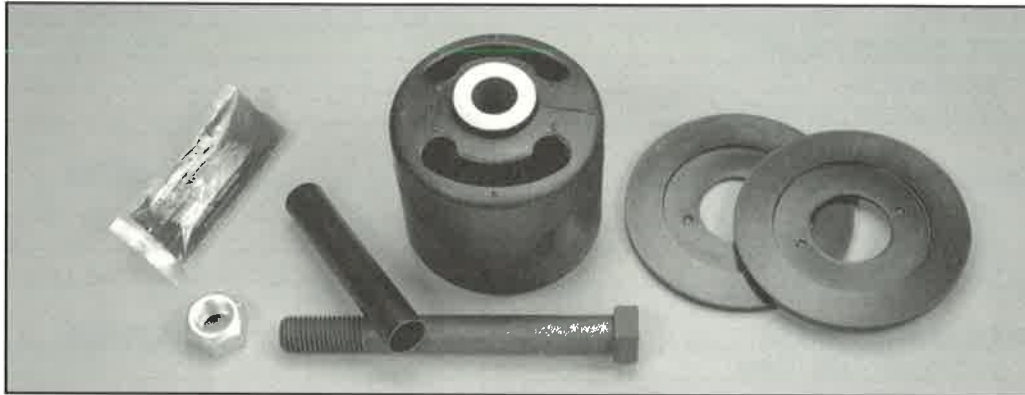
DESCRIPTION	QTY	PART NO.
QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)		S-24112
7/8" Hardened Flat Washer	2	
7/8"-9 UNC x 10" Grade 8, Hex Head Bolt	1	
TORQ-RITE® Nut	1	
Bushing Wear Pad	2	
TRI-FUNCTIONAL® II BUSHING	1	
Lubricant Packet	1	



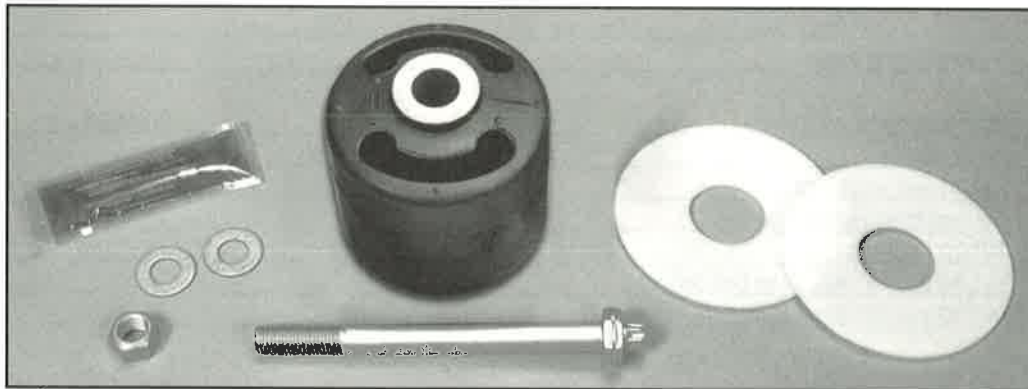
DESCRIPTION	QTY	PART NO.
QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)		S-24594
7/8" Hardened Flat Washer	2	
7/8"-9 UNC x 12-1/2" Grade 8, Hex Head Bolt	1	
TORQ-RITE® Nut	1	
Bushing Wear Pad	2	
TRI-FUNCTIONAL® II BUSHING Assembly, Ext. Pivot Tube	1	
Lubricant Packet	1	



PARTS LIST — KIT COMPONENTS
PIVOT BUSHING KITS cont.



DESCRIPTION	QTY	PART NO.
WELDED ALIGNMENT PIVOT BUSHING KIT (Per Hanger)		S-24622
Delrin Liner	1	
1-1/8"-7 x 9-3/4" Cap Screw	1	
1-1/8"-7 Hex Nut	1	
Bushing Wear Pad	2	
TRI-FUNCTIONAL® II BUSHING	1	
Lubricant Packet	1	



DESCRIPTION	QTY	PART NO.
QUIK-ALIGN® PIVOT BUSHING KIT (Per Hanger)		S-24691
7/8" Hardened Flat Washer	2	
7/8"-9 x 10" Shear Type Bolt	1	
7/8"-9 UNC Prevailing Torque Heavy Hex Nut	1	
Bushing Wear Pad	2	
TRI-FUNCTIONAL® II BUSHING	1	
Lubricant Packet	1	

PARTS LIST — KIT COMPONENTS

SHOCK ABSORBER BOLT KITS

DESCRIPTION	QTY	PART NO.
SHOCK ABSORBER BOLT KIT		S-20031/2
3/4"-10 Lock Nut	2	
3/4"-10 x 3-1/4" Hex Head Bolt	2	
SHOCK ABSORBER BOLT KIT		S-20218/2
3/4"-10 Lock Nut	2	
3/4"-10 x 3-1/4" Hex Head Bolt	1	
3/4"-10 Hex Head Bolt	1	
SHOCK ABSORBER BOLT KIT		S-20896/2
Shock Spacer – Zinc Coated	1	
3/4"-10 x 3-1/2" Hex Head Bolt	1	
3/4" Hardened Flat Washer	1	
3/4"-10 Lock Nut	2	
3/4"-10 x 5" Hex Socket Head Cap Screw	1	
SHOCK ABSORBER BOLT KIT		S-2157/2
3/4"-10 Hex Head Bolt	2	
3/4"-10 Hex Nut	2	
SHOCK ABSORBER BOLT KIT		S-24021
Shock Spacer – Zinc Coated	1	
Shock Spacer Assembly	1	
3/4"-10 x 3-1/2" Hex Head Bolt	1	
3/4"-16 x 4-1/2" Hex Head Cap Screw	1	
3/4" Hardened Flat Washer	2	
3/4"-10 Lock Nut	2	
3/4"-10 x 5-3/4" Shear Type Bolt	1	
Shock Backing Plate	1	
SHOCK ABSORBER BOLT KIT		S-24024
Shock Spacer	1	
3/4"-10 Hex Head Bolt	1	
3/4" Hardened Flat Washer	2	
3/4"-10 Lock Nut	2	
3/4"-16 x 5-1/4" Hex Head Cap Screw	1	
3/4"-10 x 6-1/2" Shear Type Bolt	1	
SHOCK ABSORBER BOLT KIT		S-24049/2
Shock Spacer Assembly	1	
3/4"-10 x 3-1/2" Hex Head Bolt	1	
3/4" Hardened Flat Washer	2	
3/4"-10 Lock Nut	1	
3/4"-10 x 5-3/4" Shear Type Bolt	1	
SHOCK ABSORBER BOLT KIT		S-24757/2
3/4"-10 Hex Head Bolt	1	
3/4"-10 Hex Nut	1	
3/4" Hardened Flat Washer	2	
3/4"-10 x 7" Shear Type Bolt	1	



PARTS LIST — KIT COMPONENTS
AXLE NUT & ABS BRACKET KITS

DESCRIPTION	QTY	PART NO.
HN SPINDLE TYPE AXLE NUT KIT (Per Wheel)		S-20492/2
Inner Axle Nut	1	
Outer Axle Nut	1	
Lock Washer	1	
8"-32 x 3/8" Set Screw	1	
HP SPINDLE TYPE AXLE NUT KIT (Per Wheel)		S-20475/2
Inner Axle Nut	1	
Outer Axle Nut	1	
Lock Washer	1	
8"-32 x 3/8" Set Screw	1	
HN SPINDLE TYPE ABS BRACKET KIT (Per Wheel)		S-21064
Sensor Bracket	1	
1/4"-20 x 1-3/4" Grade 8, Hex Head Bolt	2	
1/4"-20 Grade 8, Lock Nut	2	
1/4" Flat Washer	4	
HP SPINDLE TYPE ABS BRACKET KIT (Per Wheel)		S-21070
Sensor Bracket	1	
1/4"-20 x 1-3/4" Grade 8, Hex Head Bolt	2	
1/4"-20 Grade 8, Lock Nut	2	
1/4" Flat Washer	4	

BRAKE SHOE & BRAKE OVERHAUL KITS

DESCRIPTION	QTY	PART NO.
BRAKE SHOE KIT (Per Wheel)		S-21266-1
Lined Brake Shoe	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)		S-23750-1
Lined Brake Shoe	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)		S-23750-3
Lined Brake Shoe	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)		S-23751-1
Lined Brake Shoe	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
BRAKE SHOE KIT (Per Wheel)		S-23751-3
Lined Brake Shoe	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
ALL STANDARD BRAKES, MINOR OVERHAUL KIT (Per Wheel)		S-21183
Anchor Pin	2	
Anchor Pin Bushing	2	
Brake Retaining Spring	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
Brake Return Spring	1	
ALL HXS™ BRAKES, MINOR OVERHAUL KIT (Per Wheel)		S-23752
Anchor Pin	2	
Anchor Pin Bushing	2	
Brake Retaining Spring	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
Brake Return Spring	1	



PARTS LIST — KIT COMPONENTS
BRAKE OVERHAUL KITS cont.

DESCRIPTION	QTY	PART NO.
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)		
Anchor Pin	2	S-21184-1
Anchor Pin Bushing	2	
Brake Return Spring	1	
Brake Retaining Spring	2	
Lined Brake Shoes	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)		
Anchor Pin	2	S-23753-1
Anchor Pin Bushing	2	
Brake Return Spring	1	
Brake Retaining Spring	2	
Lined Brake Shoes	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)		
Anchor Pin	2	S-23753-3
Anchor Pin Bushing	2	
Brake Return Spring	1	
Brake Retaining Spring	2	
Lined Brake Shoes	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)		
Anchor Pin	2	S-23754-1
Anchor Pin Bushing	2	
Brake Return Spring	1	
Brake Retaining Spring	2	
Lined Brake Shoes	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	
BRAKES, MAJOR OVERHAUL KIT (Per Wheel)		
Anchor Pin	2	S-23754-3
Anchor Pin Bushing	2	
Brake Return Spring	1	
Brake Retaining Spring	2	
Lined Brake Shoes	2	
Brake Shoe Roller	2	
Roller Retainer	2	
Return Spring Pin	2	

SERVICE KITS

BRAKE CONVERSION TO HXS™ KITS

DESCRIPTION	QTY	PART NO.
16-1/2" x 7", HXS™, ABEX 3030-197, FMSI 4707		S-23756-1
Outer Cam Washer	2	
Brake Return Spring	2	
Lined Brake Shoe	4	
Brake Shoe Roller	4	
Roller Retainer	4	
Return Spring Pin	4	
S-cam	2	
16-1/2" x 8-5/8" HXS™, ABEX 3030-197, FMSI 4711		S-23757-1
Outer Cam Washer	2	
Brake Return Spring	2	
Lined Brake Shoe	4	
Brake Shoe Roller	4	
Roller Retainer	4	
Return Spring Pin	4	
S-cam	2	



PARTS LIST — KIT COMPONENTS
SLACK ADJUSTER KITS

DESCRIPTION	QTY	PART NO.
SLACK ADJUSTER KIT, GUNITE 5-1/2", 10 SPLINE		
Autoslack, Unhanded	1	S-15191-1
Outer Nut	1	
Inner Sleeve	1	
SLACK ADJUSTER KIT, GUNITE 6", 10 SPLINE		
Autoslack, Unhanded	1	S-15191-2
Outer Nut	1	
Inner Sleeve	1	
SLACK ADJUSTER KIT, HALDEX 5-1/2", 10 SPLINE		
Autoslack, Unhanded	1	S-15192-1
Anchor Stud and Nut	1	
Slack Adjuster Clevis Assembly	1	
SLACK ADJUSTER KIT, HALDEX 5", 10 SPLINE		
Autoslack, Unhanded	1	S-15192-2
Anchor Stud and Nut	1	
Slack Adjuster Clevis Assembly	1	
SLACK ADJUSTER KIT, GUNITE 5-1/2", 28 SPLINE		
Autoslack, Unhanded	1	S-21398-1
Outer Nut	1	
Inner Sleeve	1	
SLACK ADJUSTER KIT, GUNITE 5-1/2", 28 SPLINE		
Autoslack, Unhanded	1	S-21398-2
Outer Nut	1	
Inner Sleeve	1	
SLACK ADJUSTER KIT, HALDEX 5-1/2", 28 SPLINE		
Autoslack, Unhanded	1	S-21399-1
Anchor Stud and Nut	1	
Slack Adjuster Clevis Assembly	1	
SLACK ADJUSTER KIT, HALDEX 6", 28 SPLINE		
Autoslack, Unhanded	1	S-21399-2
Anchor Stud and Nut	1	
Slack Adjuster Clevis Assembly	1	

PARTS LIST — KIT COMPONENTS

S-CAM OVERHAUL KITS

DESCRIPTION	QTY	PART NO.
AXLE S-CAM MAJOR OVERHAUL KIT (Per Axle)		S-21181
Spider Retaining Ring	2	
Spline Retaining Ring	2	
S-cam Journal Washer	4	
Spider Camshaft Bushing	2	
Outer Cam Washer	2	
S-cam Support Bushing Assembly	2	
Spider Seal	4	
Spline Inner Washer	6	
Roller Retainer	2	
AXLE S-CAM MAJOR OVERHAUL KIT (Per Axle)		S-23974
Spider Retaining Ring	2	
Spline Retaining Ring	2	
S-cam Journal Washer	4	
Spider Camshaft Bushing	2	
Outer Cam Washer	2	
S-cam Support Bushing Assembly	2	
Spider Seal	4	
Spline Inner Washer	6	
Roller Retainer	2	
WHEEL S-CAM MAJOR OVERHAUL KIT (Per Wheel)		S-21181/2
Spider Retaining Ring	1	
Spline Retaining Ring	1	
S-cam Journal Washer	2	
Spider Camshaft Bushing	1	
Outer Cam Washer	1	
S-cam Support Bushing Assembly	1	
Spider Seal	2	
Spline Inner Washer	3	
Roller Retainer	1	
WHEEL S-CAM MAJOR OVERHAUL KIT (Per Wheel)		S-23974/2
Spider Retaining Ring	1	
Spline Retaining Ring	1	
S-cam Journal Washer	2	
Spider Camshaft Bushing	1	
Outer Cam Washer	1	
S-cam Support Bushing Assembly	1	
Spider Seal	2	
Spline Inner Washer	3	
Roller Retainer	1	



PARTS LIST — KIT COMPONENTS

U-BOLT KITS

DESCRIPTION	QTY	PART NO.
U-BOLT KIT		A-2237
U-Bolt High Nuts and Washers	1	
U-Bolt, Round 10" Leg	4	
U-BOLT KIT		S-1135
U-Bolt High Nuts and Washers	1	
U-Bolt, Round 12" Leg	4	
U-BOLT KIT		S-20032/4
U-Bolt, Round 8" Leg	1	
7/8"-14 Hex High Nut	2	
7/8" Flat Washer	2	
U-BOLT KIT		S-20306/4
U-Bolt, Flattened	1	
7/8"-14 Hex High Nut	2	
7/8" Flat Washer	2	
U-BOLT KIT		S-21207/4
U-Bolt, Round 7-3/4" Leg	1	
7/8"-14 Hex High Nut	2	
7/8" Flat Washer	2	
U-BOLT KIT		S-22894/4
U-Bolt, Flattened	1	
7/8"-14 Hex High Nut	2	
7/8" Flat Washer	2	
U-BOLT KIT		S-3650/4
U-Bolt, Round 8-5/8" Leg	1	
7/8"-14 Hex High Nut	2	
7/8" Flat Washer	2	

SLIDER WEAR PAD & CRANK ARM BOLT KITS

DESCRIPTION	QTY	PART NO.
SLIDER WEAR PAD KIT		S-14342-3
Screw, Slider Pad	8	
Slider Wear Pad	1	
CRANK ARM BOLT KIT		A-22041
$\frac{5}{8}$ "-11 x 2- $\frac{1}{2}$ " Hex Head Bolt	1	
$\frac{5}{8}$ " Flat Washer	1	
$\frac{5}{8}$ " Helical Lock Washer	1	
$\frac{5}{8}$ "-11 Hex Nut	1	



PARTS LIST — KIT COMPONENTS
CHAIN BOLT & CENTER LIFT BOLT KITS

DESCRIPTION	QTY	PART NO.
CHAIN BOLT KIT		
5/8"-11 x 2" Hex Head Bolt	2	A-20078
5/8"-11 Hex Nut	2	
CENTER LIFT BOLT KIT		A-12446
Shoulder Bolt	2	
1/2"-20 x 2-1/4" Hex Head Bolt	2	
5/8"-11 x 3-1/2" Hex Head Bolt	2	
1/2"-20 Hex Nut	2	
5/8"-11 Hex Nut	4	
CENTER LIFT BOLT KIT		A-4256
Shoulder Bolt	2	
5/8"-11 x 3-1/2" Hex Head Bolt	2	
5/8"-11 x 2-1/2" Hex Head Bolt	2	
5/8"-11 Hex Nut	6	
CENTER LIFT BOLT KIT		A-20237
3/4"-10 x 2-1/2" Grade 8, Hex Head Bolt	2	
5/8"-11 x 2-1/2" Grade 8, Hex Head Bolt	4	
3/4"-10 Hex Nut	2	
5/8"-11 Hex Nut	4	

QUICK REFERENCE CHART



DESCRIPTION	PART NO.	MODEL	
AIR SPRING MOUNTING KITS			
AIR SPRING MOUNTING KIT	S-22619/2	AA230T/AA250T HKA200/HKA250	HKA180
AIR SPRING MOUNTING KIT	S-22630/2	AA230T/AA250T	HKA200/HKA250
AIR SPRING MOUNTING KIT	S-22631/2	AA230T/AA250T HKA200/HKA250	HKA180
AIR SPRING MOUNTING KIT	S-22632/2	AA230T/AA250T HKA200/HKA250	HKA180
AIR SPRING MOUNTING KIT	S-22635/2	HKA180	
AIR SPRING MOUNTING KIT	S-22907/2	HK190T/230	
AIR SPRING MOUNTING KIT	S-22908/2	HK190T/230	
AIR SPRING MOUNTING KIT	S-22909/2	HK190T/230	
AIR SPRING MOUNTING KIT	S-22910/2	HK190T/230	
AIR SPRING BOLT KITS			
AIR SPRING BOLT KIT	A-2348	T-6-295	
AIR SPRING BOLT KIT	A-2378	T-9-175	
AIR SPRING BOLT KIT	A-5571	CL	
AIR SPRING BOLT KIT	A-20079	HTCL	
AIR SPRING BOLT KIT	S-1981/2	T-4-392 HT300U	T-6-071
AIR SPRING BOLT KIT	S-20033/2	HT190 HT230 HT250U HT250US HS190T/230	HT190U HT250T HT250U "Y" BEAM HC/HTDOLLY
AIR SPRING BOLT KIT	S-20313/2	HT300U	
AIR SPRING BOLT KIT	S-4093/2	T-15-172 HT300T	T-17-174
PIVOT BOLT KITS			
WELDED ALIGNMENT PIVOT BOLT KIT	S-3646	T-4-392 T-6-295 T-15-172 HT190 HT230 HT250U HT300U HS190T/230	T-6-071 T-9-175 T-17-174 HT190U HT250T HT300T HC/HTDOLLY
WELDED ALIGNMENT PIVOT BOLT KIT	S-7345	HT250U "Y" BEAM	
QUIK-ALIGN® PIVOT BOLT KIT	S-21052	HT190 HT230 HT250U HT300T HC/HTDOLLY HK190T/230	HT190U HT250T HT250US AA230T/AA250T HS190T/230 HKA200/HKA250
QUIK-ALIGN® PIVOT BOLT KIT	S-23319	HKA180	
QUIK-ALIGN® PIVOT BOLT KIT	S-24593	HT250U "Y" BEAM	
QUIK-ALIGN® PIVOT BOLT KIT	S-24679	AA230L/AA250L	

**QUICK REFERENCE CHART cont.**

DESCRIPTION	PART NO.	MODEL	
PIVOT BUSHING KITS			
WELDED ALIGNMENT PIVOT BUSHING KIT	A-6914	T-4-392	T-6-071
		T-6-295	T-9-175
		T-15-172	T-17-174
		HT190	HT190U
		HT230	HT250T
		HT250U	HT300T
		HT300U	HS190T/230
WELDED ALIGNMENT PIVOT BUSHING KIT	A-13136	HT250U "Y" BEAM	
QUIK-ALIGN® PIVOT BUSHING KIT	S-21166	HT190	HT190U
		HT230	HT250T
		HT250U	HT250US
		HT300T	AA230T/AA250T
		HS190T/230	HK190T/230
		HKA200/HKA250	
QUIK-ALIGN® PIVOT BUSHING KIT	S-23320	HKA180	
QUIK-ALIGN® PIVOT BUSHING KIT	S-24112	HC/HTDOLLY	AA230T/AA250T
QUIK-ALIGN® PIVOT BUSHING KIT	S-24594	HT250U "Y" BEAM	
WELDED ALIGNMENT PIVOT BUSHING KIT	S-24622	HC/HTDOLLY	
QUIK-ALIGN® PIVOT BUSHING KIT	S-24691	AA230L/AA250L	
SHOCK ABSORBER BOLT KITS			
SHOCK ABSORBER BOLT KIT	S-20031/2	HT190	HT230
		HT250T	HT300T
		HC/HTDOLLY	HS190T/230
		HK190T/230	
SHOCK ABSORBER BOLT KIT	S-20218/2	HT190	HT190U
SHOCK ABSORBER BOLT KIT	S-20896/2	AA230T/AA250T	
SHOCK ABSORBER BOLT KIT	S-2157/2	T-4-392	T-6-071
		T-6-295	T-9-175
		T-15-172	T-17-174
		HT190U	HT230
		HT250U	HT250U "Y" BEAM
		HT300T	HT300U
SHOCK ABSORBER BOLT KIT	S-24021	AA230T/AA250T	HKA200/HKA250
SHOCK ABSORBER BOLT KIT	S-24024	HT250US	
SHOCK ABSORBER BOLT KIT	S-24049/2	HKA180	
SHOCK ABSORBER BOLT KIT	S-24757/2	AA230L/AA250L	
AXLE NUT KITS			
HN SPINDLE TYPE AXLE NUT KIT	S-20492/2	AA230T/AA250T	HKA180
		HKA200/HKA250	
HP SPINDLE TYPE AXLE NUT KIT	S-20475/2	AA230T/AA250T	HKA180
		HKA200/HKA250	
ABS BRACKET KITS			
HN SPINDLE TYPE ABS BRACKET KIT	S-21064	AA230T/AA250T	HKA180
		HKA200/HKA250	
HP SPINDLE TYPE ABS BRACKET KIT	S-21070	AA230T/AA250T	HKA180
		HKA200/HKA250	

QUICK REFERENCE CHART cont.

DESCRIPTION	PART NO.	MODEL	
BRAKE SHOE KITS			
BRAKE SHOE KIT	S-21266-1	AA230T/AA250T	HKA180
		HKA200/HKA250	
BRAKE SHOE KIT	S-23750-1	AA230T/AA250T	HKA180
		HKA200/HKA250	
BRAKE SHOE KIT	S-23750-3	AA230T/AA250T	HKA180
		HKA200/HKA250	
BRAKE SHOE KIT	S-23751-1	AA230T/AA250T	HKA180
		HKA200/HKA250	
BRAKE SHOE KIT	S-23751-3	AA230T/AA250T	HKA180
		HKA200/HKA250	
BRAKE OVERHAUL KITS			
ALL STANDARD BRAKES, MINOR OVERHAUL KIT	S-21183	AA230T/AA250T	HKA180
		HKA200/HKA250	
ALL HXS™ BRAKES, MINOR OVERHAUL KIT	S-23752	AA230T/AA250T	HKA180
		HKA200/HKA250	
BRAKES, MAJOR OVERHAUL KIT	S-21184-1	AA230T/AA250T	HKA180
		HKA200/HKA250	
BRAKES, MAJOR OVERHAUL KIT	S-23753-1	AA230T/AA250T	HKA180
		HKA200/HKA250	
BRAKES, MAJOR OVERHAUL KIT	S-23753-3	AA230T/AA250T	HKA180
		HKA200/HKA250	
BRAKES, MAJOR OVERHAUL KIT	S-23754-1	AA230T/AA250T	HKA180
		HKA200/HKA250	
BRAKES, MAJOR OVERHAUL KIT	S-23754-3	AA230T/AA250T	HKA180
		HKA200/HKA250	
SLACK ADJUSTER KITS			
SLACK ADJUSTER KIT, GUNITE 5-1/2", 10 SPLINE	S-15191-1	AA230T/AA250T	HKA180
		HKA200/HKA250	
SLACK ADJUSTER KIT, GUNITE 6", 10 SPLINE	S-15191-2	AA230T/AA250T	HKA180
		HKA200/HKA250	
SLACK ADJUSTER KIT, HALDEX 5-1/2", 10 SPLINE	S-15192-1	AA230T/AA250T	HKA180
		HKA200/HKA250	
SLACK ADJUSTER KIT, HALDEX 5", 10 SPLINE	S-15192-2	AA230T/AA250T	HKA180
		HKA200/HKA250	
SLACK ADJUSTER KIT, GUNITE 5-1/2", 28 SPLINE	S-21398-1	AA230T/AA250T	HKA180
		HKA200/HKA250	
SLACK ADJUSTER KIT, GUNITE 5-1/2", 28 SPLINE	S-21398-2	AA230T/AA250T	HKA180
		HKA200/HKA250	
SLACK ADJUSTER KIT, HALDEX 5-1/2", 28 SPLINE	S-21399-1	AA230T/AA250T	HKA180
		HKA200/HKA250	
SLACK ADJUSTER KIT, HALDEX 6", 28 SPLINE	S-21399-2	AA230T/AA250T	HKA180
		HKA200/HKA250	

**QUICK REFERENCE CHART cont.**

DESCRIPTION	PART NO.	MODEL	
S-CAM OVERHAUL KITS			
AXLE S-CAM MAJOR OVERHAUL KIT	S-21181	AA230T/AA250T	HKA200/HKA250
AXLE S-CAM MAJOR OVERHAUL KIT	S-23974	AA230T/AA250T	HKA180
		HKA200/HKA250	
WHEEL S-CAM MAJOR OVERHAUL KIT	S-21181/2	HKA200/HKA250	
WHEEL S-CAM MAJOR OVERHAUL KIT	S-23974/2	HKA180	HKA200/HKA250
U-BOLT KITS			
U-BOLT KIT	A-2237	T-9-175	
U-BOLT KIT	S-1135	T-4-392	
U-BOLT KIT	S-20032/4	HT190	HT190U
		HT230	HT250US
		HT300T	HC/HTDOLLY
		HS190T/230	HK190T/230
U-BOLT KIT	S-20306/4	HT190U	
U-BOLT KIT	S-21207/4	HT250T	
U-BOLT KIT	S-22894/4	HT250US	
U-BOLT KIT	S-3650/4	T-6-071	T-6-295
		T-15-172	T-17-174
		HT250U	HT250U *Y* BEAM
		HT300U	
SLIDER WEAR PAD KIT	S-14342-3	HK190T/230	HKA180
		HKA200/HKA250	
CRANK ARM BOLT KIT	A-22041	HK190T/230	HKA180
		HKA200/HKA250	
CHAIN BOLT KIT	A-20078	HTCL	
CENTER LIFT BOLT KITS			
CENTER LIFT BOLT KIT	A-12446	CL	
CENTER LIFT BOLT KIT	A-4256	CL	
CENTER LIFT BOLT KIT	A-20237	CL	



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SUSPENSION SERVICE TOOLS

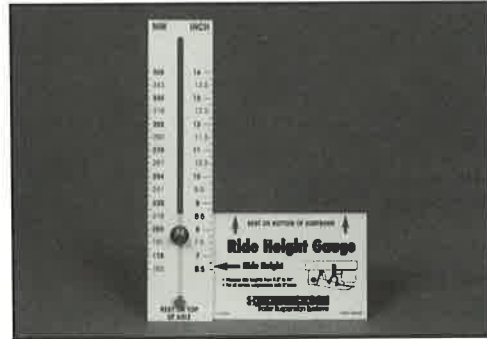


RIDE HEIGHT GAUGES



PART NO. A-23442

Use to measure ride heights from 13-1/2" to 19" on any trailer air-ride suspension using 5" round or square axles.



PART NO. A-23445

Use to measure ride heights from 6-1/2" to 14" on any trailer air-ride suspension using 5" round or square axles.

TRI-FUNCTIONAL® BUSHING TOOLS



PART NO. S-21307

Use to remove and replace pivot bushings on all T, HT, INTRAAX®, and HKA200/HKA250 VANTRAAX® applications.

PART NO. S-24736

Use to remove and replace pivot bushings on all HKA180 VANTRAAX® applications.

E-20 SOCKET



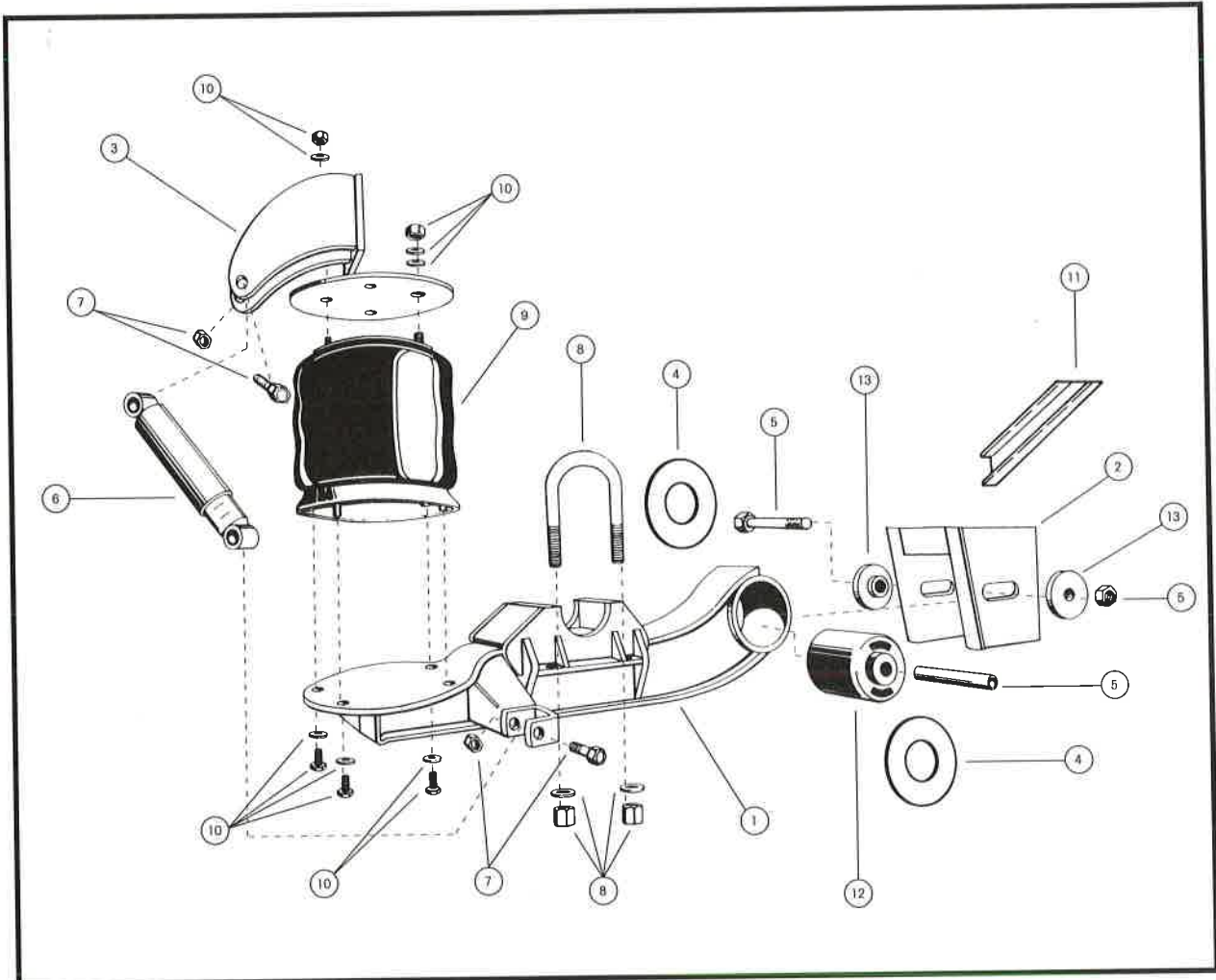
PART NO. A-24303

Use to install shear type bolt on all models having QUIK-ALIGN® pivot connections, as well as to install the lower shock mount on INTRAAX®, VANTRAAX®, and HT250US applications.



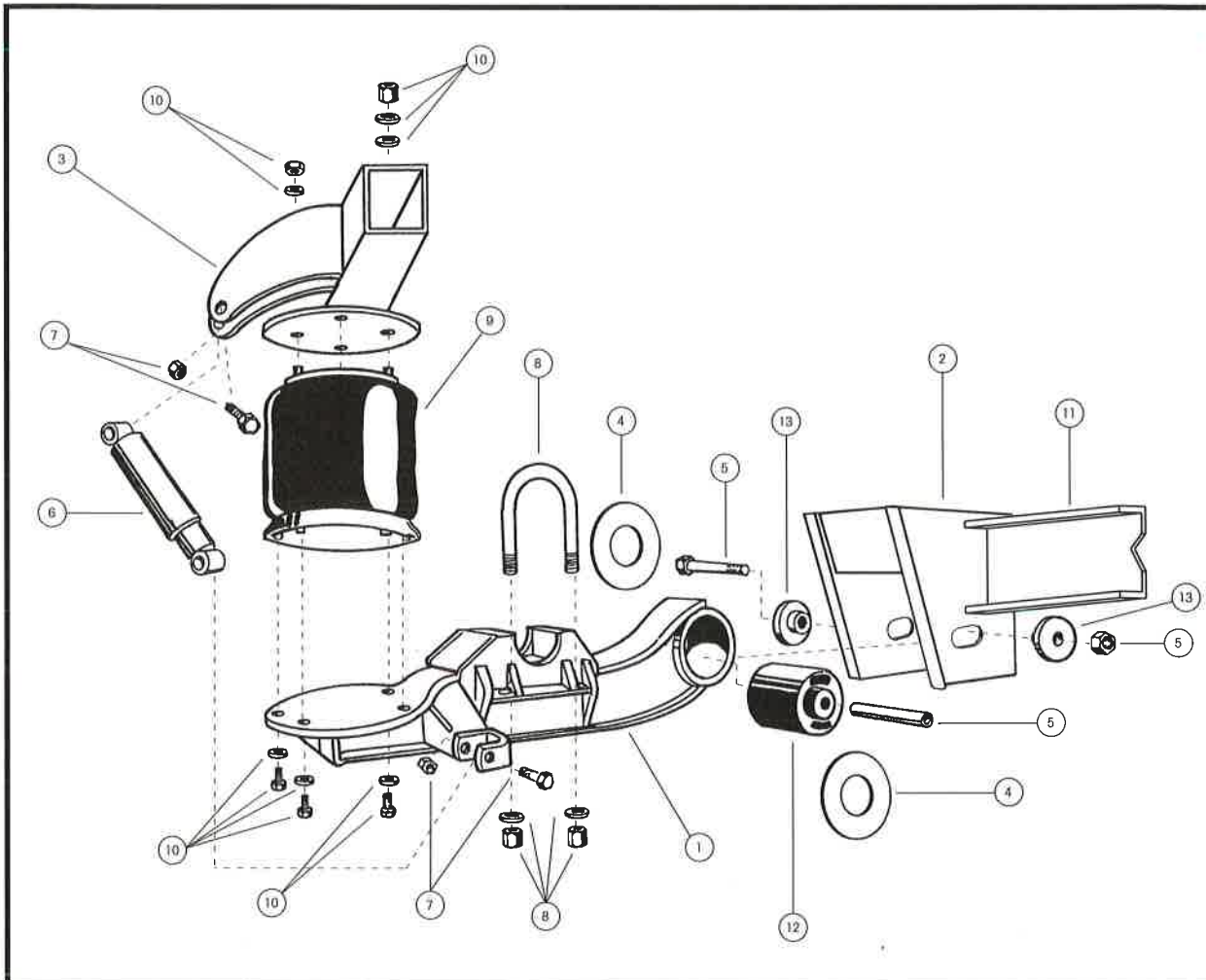
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ITEM	DESCRIPTION	PART NO.	QTY
1	BEAM ASSEMBLY		
	Roadside	C-12600-13	1
	Curbside	C-12600-14	1
2	FRAME BRACKET		
	Roadside	C-12618-1	1
	Curbside	C-12617-1	1
3	AIR SPRING/SHOCK MOUNT		
	Roadside	C-12806-11	1
	Curbside	C-12806-12	1
4	BUSHING WEAR PAD	S-11613	4
5	PIVOT BOLT KIT	S-3646	2
6	SHOCK ABSORBER	S-10348	2
7	SHOCK ABSORBER BOLT KIT	S-2157/2	2
8	U-BOLT KIT	S-10364	4
9	AIR SPRING	S-12514-8	2
10	AIR SPRING BOLT KIT	S-10335	2
11	FRAME BRACKET BRACE	B-2347-6	2
12	TRI-FUNCTIONAL® II BUSHING KIT ¹	A-6914	2
13	ALIGNMENT COLLARS	S-2770	4

¹ The Tri-Functional® II Bushing Kit includes Item #5 (Pivot Bolt Kit), Item #4 (Bushing Wear Pad) and Lubricant Packet. Bushing Tool, S-21307, is required to correctly re-bush the suspension.

**MODEL T30-US-17 (36000-189/218)**

ITEM	DESCRIPTION	PART NO.	QTY
1	BEAM ASSEMBLY		
	Roadside	C-12600-11	1
	Curbside	C-12600-12	1
2	FRAME BRACKET		
	Roadside	C-12618-4	1
	Curbside	C-12617-4	1
3	CROSTUBE ASSEMBLY		
	For Model 36000-189 (35" Beam Centers)	C-12629-1	1
	For Model 36000-218 (41" Beam Centers)	C-12629-5	1
4	BUSHING WEAR PAD	S-11613	4
5	PIVOT BOLT KIT	S-3646	2
6	SHOCK ABSORBER	S-10348	2
7	SHOCK ABSORBER BOLT KIT	S-2157/2	2
8	U-BOLT KIT	S-10364	4
9	AIR SPRING	S-12514-8	2
10	AIR SPRING BOLT KIT	S-10335	2
11	FULL DEPTH CROSSMEMBER		
	For Model 36000-189 (35" Beam Centers)	A-10313-3	1
	For Model 36000-218 (41" Beam Centers)	A-10313-6	1
12	TRI-FUNCTIONAL® II BUSHING KIT ¹	A-6914	2
13	ALIGNMENT COLLARS	S-2770	4

¹ The Tri-Functional® II Bushing Kit includes Item #5 (Pivot Bolt Kit), Item #4 (Bushing Wear Pad) and Lubricant Packet. Bushing Tool, S-21307, is required to correctly re-bush the suspension.

SERVICE KITS



DESCRIPTION	QTY	PART NO.
AIR SPRING BOLT KIT		S-10335
1/2"-13 Hex Nut	1	
3/4"-16 Hex Nut	1	
3/4" Helical Lock Washer	1	
1/2"-13 x 1-1/2" Grade 5, Hex Head Bolt	3	
3/4" Flat Washer	1	
1/2" Lock Washer	4	
PIVOT BOLT KIT (Per Hanger)		S-3646
Delrin Liner	1	
1-1/8"-7 x 9-3/4" Cap Screw	1	
1-1/8"-7 Hex Nut	1	
SHOCK ABSORBER BOLT KIT		S-2157/2
3/4"-10 Hex Head Bolt	2	
3/4"-10 Hex Nut	2	
U-BOLT KIT		S-10364
U-Bolt, Round 9-1/2"	1	
7/8"-14 Hex High Nut	2	
7/8" Flat Washer	2	
PIVOT BUSHING KIT (Per Hanger)		A-6914
Delrin Liner	1	
1-1/8"-7 x 9-3/4" Cap Screw	1	
1-1/8"-7 Hex Nut	1	
Bushing Wear Pad	2	
TRI-FUNCTIONAL® II BUSHING	1	
Lubricant Packet	1	



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COMMENT UTILISER CE CATALOGUE



SECTION D'IDENTIFICATION DE LA SUSPENSION

Cette partie du catalogue inclus un lexique, contenant des définitions pour les termes employés fréquemment par l'industrie ainsi que que des termes spécifiques à Hendrickson. Les étapes nécessaires pour localiser l'étiquette d'identification et un guide d'identification aidant à déterminer le type de suspension sont aussi inclus.

SECTION DES RESSORTS PNEUMATIQUES

Cette section sert non seulement à aider à identifier les composantes d'un ressort pneumatique mais aussi à identifier les différents ressorts pneumatiques à l'aide d'information sur les dimensions spécifiques. Un tableau d'application est inclus indiquant quel ressort pneumatique est utilisé sur quelle suspension.

SECTION DES AMORTISSEURS DE CHOCS

Cette section du catalogue inclus un tableau d'identification indiquant le numéro de pièces Hendrickson des amortisseurs avec les dimensions correspondantes. Un tableau d'application est aussi inclus indiquant quel amortisseur est utilisé sur quelle suspension ainsi que quel ensemble de courroie pour amortisseur est compatible avec cet amortisseur.

SECTION DES SUSPENSIONS PRIMAIRES

Vue détaillée des modèles de suspensions primaires avec la liste de pièces correspondante est inclus dans cette section du catalogue.

SECTION DES SUSPENSIONS À GLISSIÈRE

Vue détaillée des modèles de suspensions à glissière avec la liste de pièces correspondante est inclus dans cette section du catalogue

SECTIONS DES KITS DE LEVAGE

Vue détaillée des modèles de kits de levage avec la liste de pièces correspondante est inclus dans cette section du catalogue.

SECTION SURELOK®

Cette section contient une vue détaillée de SURELOK®, le système de blockage de la hauteur de roulement de Hendrickson. À cause de la nature unique de ce produit, les numéros de pièces doivent être obtenus de Hendrickson.

SECTIONS DES KITS DE SERVICES

Cette section contient la liste des composantes formant les différents kits de service de Hendrickson.

SECTION DES OUTILS DE SERVICE DE HENDRICKSON

Cette section contient une description et une illustration des différents outils de service de Hendrickson.

SECTION DES SUSPENSION CANADIENNES

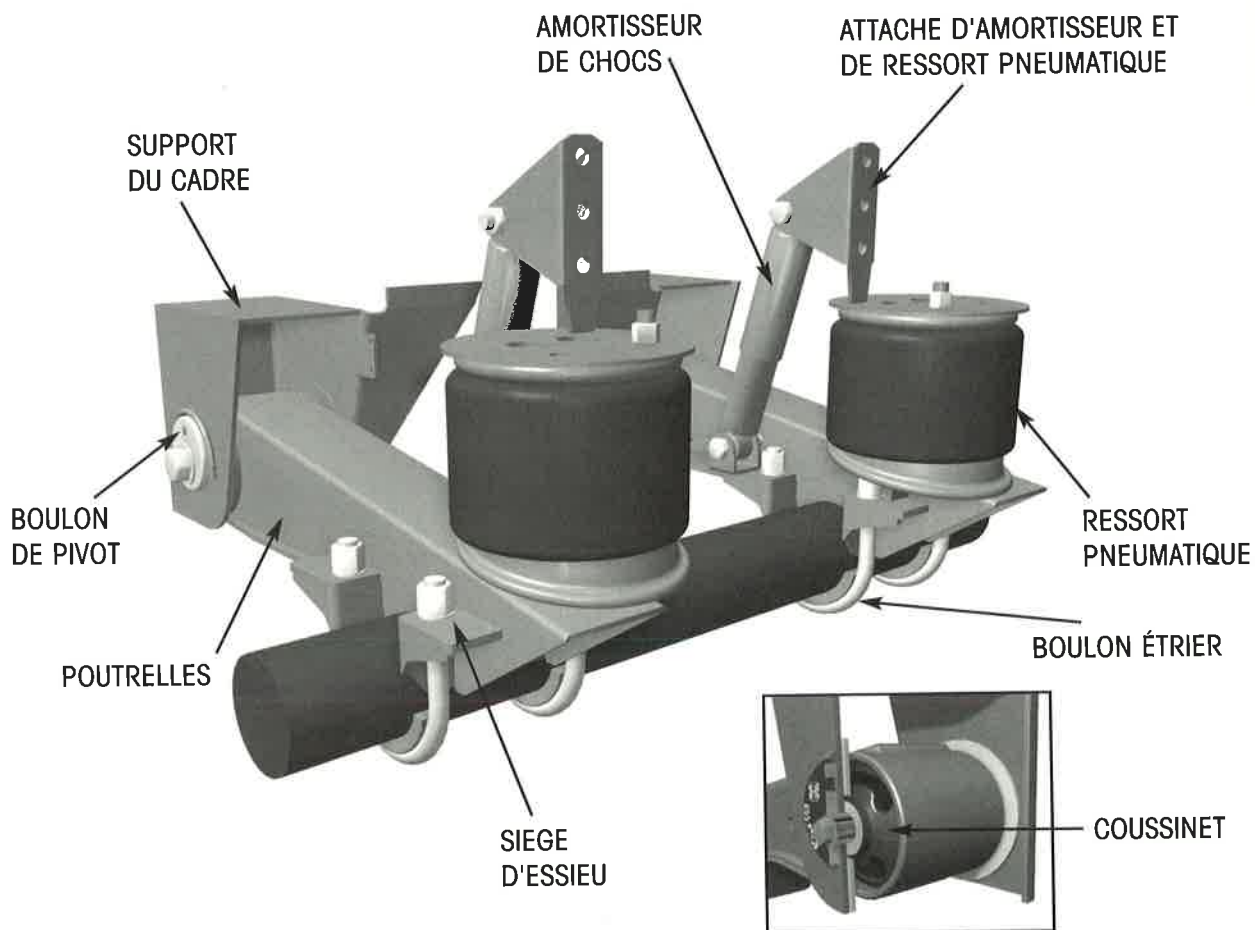
Cette section incluses une vue détaillée des modèles de suspension uniques au Canada avec la liste de pièces correspondante. Une liste détaillée des composantes des kits de services est aussi inclus.



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Bien que l'information fournie dans ce catalogue soit considérée comme fiable, Hendrickson n'offre aucune représentation ou garantie que ce soit, expresse ou implicite, en ce qui a trait à sa précision et à son intégralité. Toute cette information est sujette à changement sans préavis et sans obligation de la part de Hendrickson. Les illustrations agrandies contenues dans ce catalogue ne sont pas présentées à l'échelle et peuvent ne pas inclure toutes les pièces d'une suspension. Elles sont fournies en guise de référence seulement. Pour obtenir le dessin technique (plan détaillé) de votre modèle, veuillez communiquer avec le Service à la clientèle.

PIÈCES DE SUSPENSION



TERMINOLOGIE HABITUELLE

TERMINOLOGIE RELATIVE AUX RESSORTS PNEUMATIQUES

RESSORT PNEUMATIQUE (AIR SPRING) Parfois appelé ballon. Soutient la remorque au moyen d'une pression d'air.

MEMBRANE FLEXIBLE (FLEX MEMBER) Membrane gonflable en caoutchouc placée autour du ressort pneumatique.

PISTON Portion inférieure du ressort pneumatique fixée à la membrane flexible. Sert au montage du ressort pneumatique sur la poutrelle de suspension.

FLASQUE (BEAD PLATE) Surface de montage supérieure du ressort pneumatique fixée à la membrane flexible.

TERMINOLOGIE RELATIVE AUX ESSIEUX

VOIE (AXLE TRACK) La distance latérale entre le centre des roues jumelées d'un côté à l'autre d'un essieu.

FUSÉE HN (HN SPINDLE) Semblable à la fusée D22 ou TN. Fusée conique dotée de roulements plus petits sur la roue externe et de roulements plus gros sur la roue interne.

FUSÉE HP (HP SPINDLE) Semblable à la fusée P22 ou TP. Fusée droite dotée de roulements de même dimension sur les roues interne et externe.



TERMINOLOGIE HABITUELLE

TERMINOLOGIE RELATIVE AUX POUTRELLES

POUTRELLES (BEAM ASSEMBLY) Parfois appelées bras de suspension ou bras longitudinal. Structure porteuse articulée au niveau du support du cadre; branchée au tube d'essieu et au ressort pneumatique.

POUTRELLES EN "Y" ("Y" BEAM) Ensemble de poutrelles de suspension chevauchant le cadre de remorque au niveau de l'articulation.

TERMINOLOGIE RELATIVE AU SUPPORT DU CADRE

SUPPORT DU CADRE (FRAME BRACKET) Parfois appelé main de ressort, colonne ou boîte de support. Structure porteuse boulonnée ou soudée au cadre de la remorque et fixée à l'ensemble de poutrelles au niveau de l'articulation.

SUPPORT DE CADRE À AILETTES (WINGED FRAME BRACKET) Support de cadre qui sert de soutien latéral. La surface interne arrière est dotée d'un gousset d'assemblage intégré.

SUPPORT DE CADRE SANS AILETTES (WINGLESS FRAME BRACKET) Support de cadre ne comportant aucun gousset d'assemblage. Utilise communément un profilé en C de 3 po pour fournir un soutien latéral.

SUPPORT DE CADRE SOUDÉ (WELD-ON FRAME BRACKET) Support de cadre assemblé par soudage au cadre en acier de la remorque.

SUPPORT DE CADRE BOULONNÉ (BOLT-ON FRAME BRACKET) Support de cadre dont la plaque supérieure est munie de trous permettant l'assemblage au cadre en aluminium à l'aide de boulons.

SUPPORT DE CADRE BOULONNÉ SOUDABLE (WELDABLE BOLT-ON FRAME BRACKET) Support de cadre qui se fixe au moyen de boulons à la plaque de montage d'origine du cadre en aluminium.

TERMINOLOGIE GÉNÉRALE

HAUTEUR DE ROULEMENT (RIDE HEIGHT) Distance entre le centre de l'essieu et la surface de montage de la suspension (bas du cadre de remorque ou de la glissière) en position normale de fonctionnement.

REBOND ASCENDANT (JOUNCE) Mouvement ascendant maximal de l'essieu depuis la hauteur de roulement vers le cadre, y compris la compression du butoir.

REBOND DESCENDANT (REBOUND) Course descendante maximale de l'essieu allouée par la suspension et contrôlée par l'amortisseur.

SUSPENSION SUR ESSIEU (TOP MOUNT) Suspension dont l'ensemble de poutrelles est situé sur le dessus de l'essieu.

SUSPENSION SOUS ESSIEU (UNDERSLUNG) Suspension dont l'ensemble de poutrelles est situé sous l'essieu.

COUSSINET TRIFONCTIONAL® (TRI-FUNCTIONAL BUSHING®) Coussinet de caoutchouc situé dans l'ensemble de poutrelles au niveau de l'articulation. Contrôle le roulis du véhicule et l'alignement des essieux.

SANGLE D'AMORTISSEUR (SHOCK STRAP) Sangle fixée autour de l'amortisseur et utilisée pour limiter le rebond en fournissant une résistance supplémentaire.

AXE D'ARTICULATION (PIVOT BOLT) Boulon qui relie l'ensemble de poutrelles au support du cadre, au niveau de l'articulation.

TRIANGULATION PAR SOUDAGE (WELDED ALIGNMENT) Raccordement de la triangulation de suspension fixé par soudage.

QUIK-ALIGN® Raccordement de la triangulation de suspension où la triangulation est ajustée à l'aide d'une rondelle excentrique et fixée par le serrage de l'axe d'articulation.

TERMINOLOGIE HABITUELLE cont.



TERMINOLOGIE GÉNÉRALE cont.

MONOCOQUE/ASSEMBLÉ (UNITIZED/ASSEMBLED) Pièce dont l'ensemble de poutrelles et les supports de cadre sont déjà assemblés à la livraison.

NON MONOCOQUE/NON ASSEMBLÉ (NON-UNITIZED/UNASSEMBLED) Pièce dont les supports de cadre et les axes d'articulation sont livrés en pièces détachées.

RAYON SOUS CHARGE (LOADED TIRE RADIUS) Distance entre la ligne centrale de la fusée de l'essieu et le sol en condition de charge. Le rayon est déterminé par le type de pneu et ses dimensions.

TERMINOLOGIE RELATIVE AUX PRODUITS HENDRICKSON

SÉRIE T (T SERIES) Il s'agit des tous premiers produits pour suspension de remorque Hendrickson. Offert en capacités et configurations diverses.

SÉRIE HT (HT SERIES) Modèle amélioré de Hendrickson doté de capacités et de configurations similaires à la Série T.

INTRAAX® Système Hendrickson avec essieu, ensemble de poutrelles et freins intégrés.

SURELOK® Dispositif servant à maintenir la hauteur du plancher de la remorque durant le chargement et le déchargement. Également utilisé au lieu des vannes de décharge pour empêcher le déplacement de la remorque.

SOUPAPE DE RÉGLAGE DE HAUTEUR DE ROULEMENT (HEIGHT CONTROL VALVE) Parfois appelée soupape de nivellement. Soupape pneumatique qui réagit automatiquement à la position de l'essieu et du cadre du véhicule. Maintient la distance entre la ligne centrale de l'essieu et le dessous du cadre.

VALVE DE VIDEMENT (DUMP VALVE) Ajouté au système d'air de la suspension de la remorque pour enlever l'air des ressorts pneumatiques et accroître la stabilité lors du chargement ou du déchargement.

KIT DE LEVAGE PNEUMATIQUE (CENTER LIFT KIT) Mécanisme pneumatique utilisé pour soulever l'essieu d'une remorque dans le but de dégager les roues du sol.

EXTRACTEUR DE COUSSINET (BUSHING TOOL) Outil spécial servant à enlever le coussinet TriFuncional® de l'ensemble de poutrelles, puis à le replacer.

TERMINOLOGIE RELATIVE AUX GLISSIÈRES

GLISSIÈRE (SLIDER) Parfois appelée train de roulement faux cadre. Montant mobile de suspension servant à repositionner les essieux de remorque.

LONGERON (BODY RAIL) Longeron en acier monté sur la remorque. Comporte des trous qui s'alignent avec les tiges de blocage de glissière.

BUTÉE MANUELLE (MANUAL STOP BAR) Butée insérée dans un ensemble de longerons à glissière et servant à arrêter le mouvement de la glissière durant son repositionnement.

TIGE DE BLOCAGE (LOCKING PIN) Tige située à l'intérieur d'une boîte de glissière et qui empêche la glissière de bouger. Se rétracte pour permettre le repositionnement de la glissière.



COMMENT IDENTIFIER UN MODÈLE

- ÉTAPE 1.** Localisez l'étiquette d'identification sur la suspension en consultant le tableau suivant.
- ÉTAPE 2.** Si l'étiquette est introuvable, veuillez contacter le fabricant de la remorque avec les informations nécessaires pour déterminer le modèle de suspension sous la remorque.
- ÉTAPE 3.** Si vous ne pouvez obtenir le numéro de suspension en complétant les étapes 1 et 2, veuillez vous référer au guide d'identification pour vous aider à déterminer votre modèle de suspension. Voir instructions ci-dessous.



MODÈLE DE SUSPENSION

EMPLACEMENT DE L'ÉTIQUETTE

Suspension primaire "T"	À l'avant du support de cadre, côté conducteur
Suspension primaire "HT"	À l'avant du support de cadre, côté conducteur, ou intérieur de la poutrelle côté passager
Suspension primaire INTRAAX®	Intérieur de la poutrelle côté passager
Glissière HS avec suspension HT	Traverse avant de la boîte HS
Glissière HS avec suspension INTRAAX®	Traverse avant de la boîte HS
Glissière K2 avec suspension HT	Au dessus du support de cadre avant sur la boîte K2, côté conducteur
Glissière K2 avec suspension INTRAAX®	Au dessus du support de cadre avant sur la boîte K2, côté conducteur
	Étiquette INTRAAX® vierge à l'intérieur de la poutrelle côté passager

INSTRUCTION DU GUIDE D'IDENTIFICATION

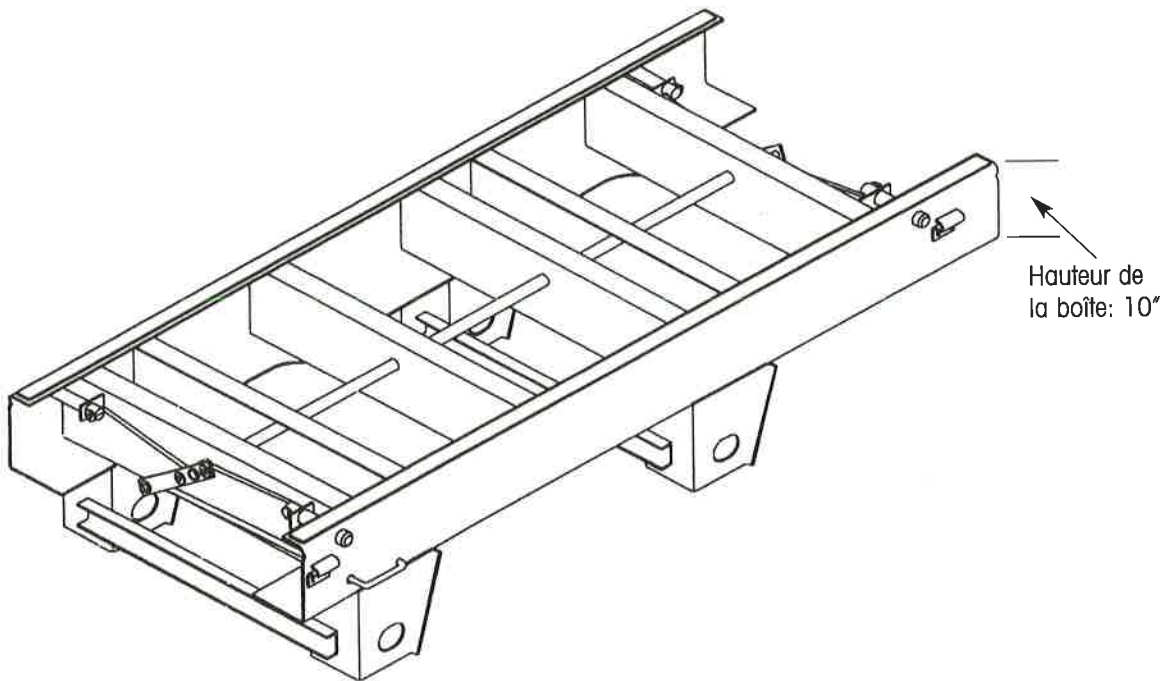
- ÉTAPE 1.** Déterminer si la suspension est fixe ou à glissière.
- ÉTAPE 2.** S'il s'agit d'une glissière, utiliser le guide d'identification suivant pour déterminer le type de boîte et le modèle de la suspension. Procéder à ce modèle dans la section Glissière.
- S'il s'agit d'une suspension fixe, utiliser le guide d'identification suivant pour déterminer le modèle de la suspension. Procéder à ce modèle dans la section Suspension primaire.



INSTRUCTIONS

Les boîtes de glissière Hendrickson sont fabriquées en 2 modèles. Pour déterminer le type de boîte, vérifier si les traverses sont en "échelle" ou en "K" (voir illustrations). Si elles sont en "échelle", veiller vous référer à la boîte HS190T/230 ci-dessous. Si elles sont en "K", référez-vous à la page suivante pour déterminer le modèle.

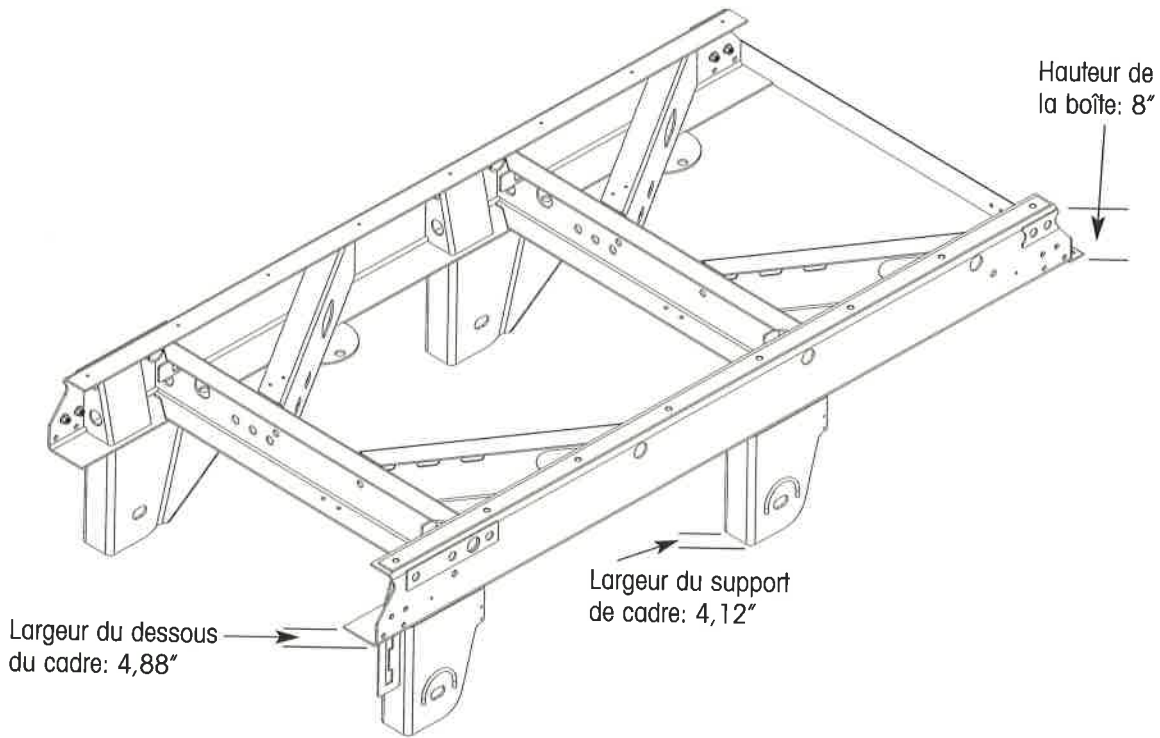
BOÎTE HS190T/230



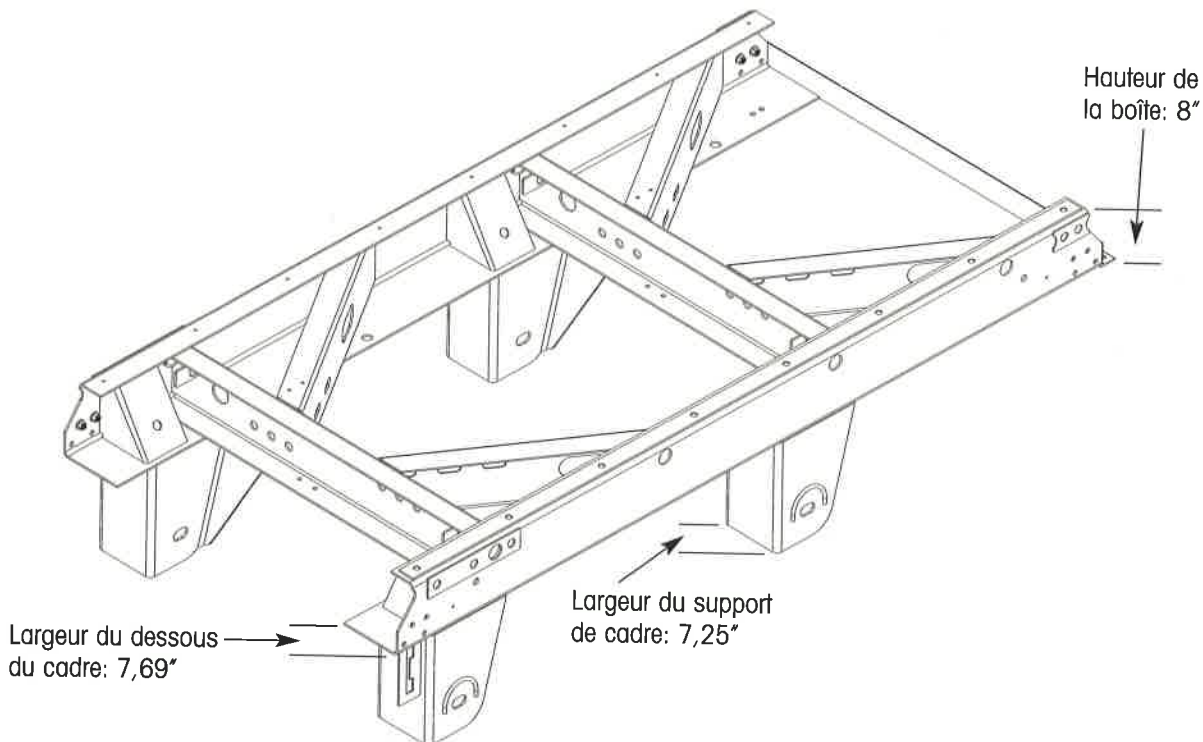


BOÎTE DE GLISSIÈRE
GUIDE D'IDENTIFICATION

BOÎTE HKA180 VANTRAAX®



BOÎTE HK190T/230 ET HKA200/HKA250 VANTRAAX®

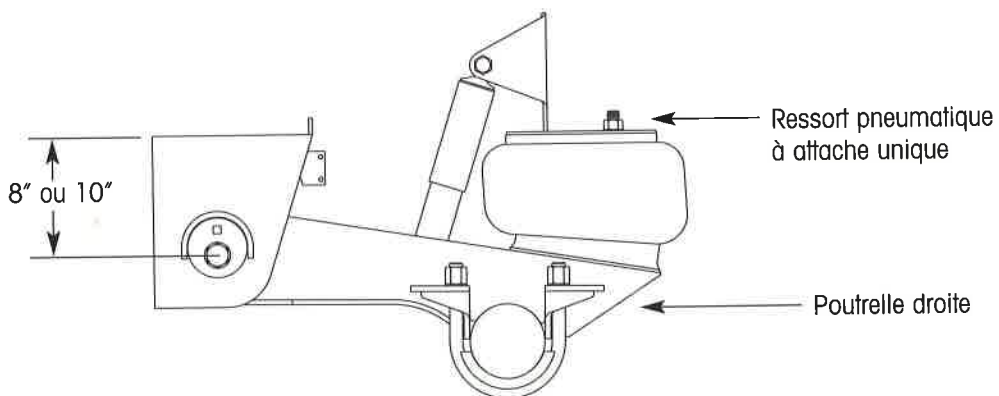




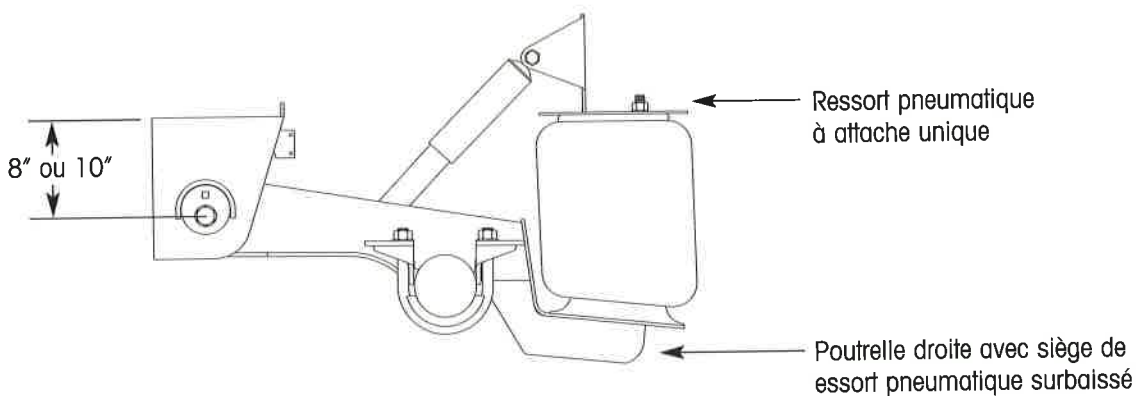
INSTRUCTIONS

Suspensions sur essieu sont celles dont les poutrelles sont situées sur l'essieu. Les illustrations suivantes illustrent les différentes caractéristiques de chaque suspension sur essieu. Pour identifier votre suspension, trouvez l'illustration avec les mêmes caractéristiques.

HT190 ET HT230 SUR ESSIEU



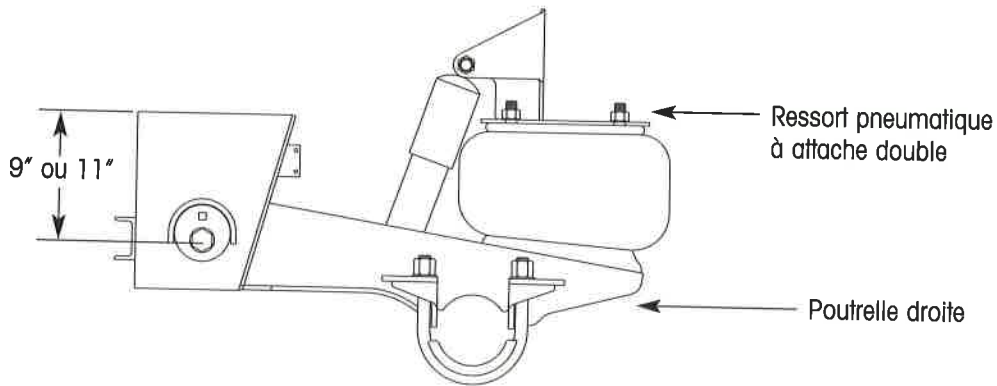
HT250T SUR ESSIEU



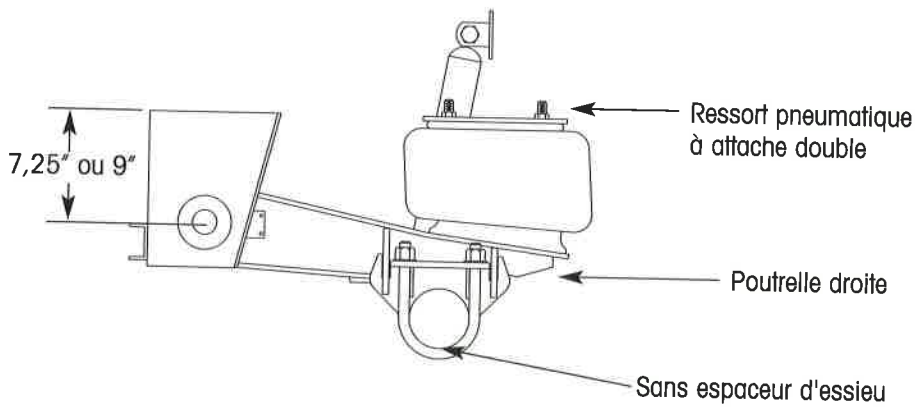


SUSPENSION SUR ESSIEU GUIDE D'IDENTIFICATION

HT300 SUR ESSIEU



T SUR ESSIEU

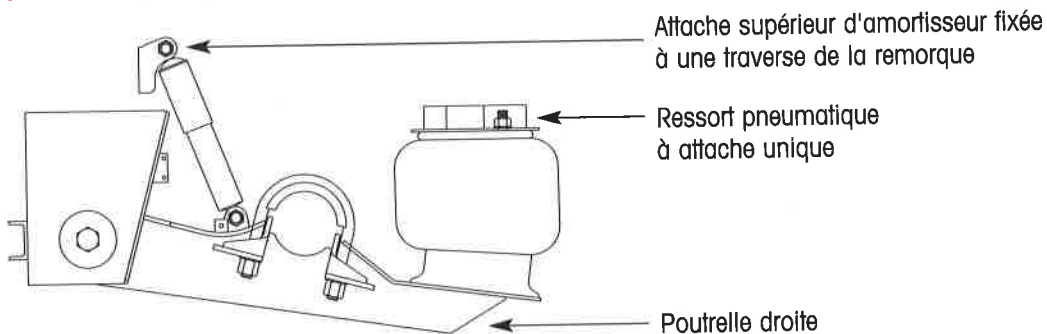




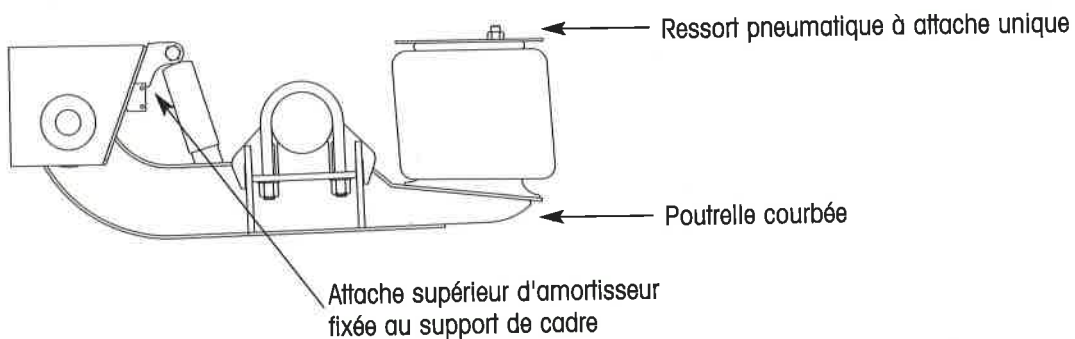
INSTRUCTIONS

Suspensions sous essieu sont celles dont les poutrelles sont sous l'essieu. Les illustrations suivantes illustrent les différentes caractéristiques de chaque suspension sous essieu. Pour identifier votre suspension, trouvez l'illustration avec les mêmes caractéristiques.

HT190U SOUS ESSIEU



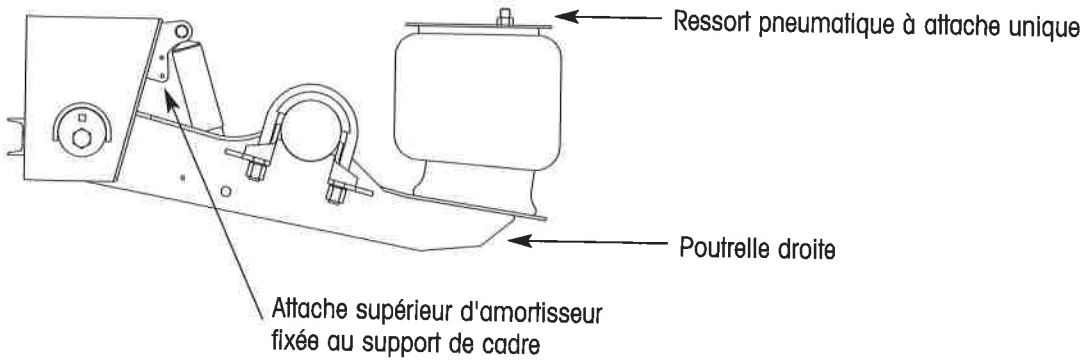
HT250U SOUS ESSIEU



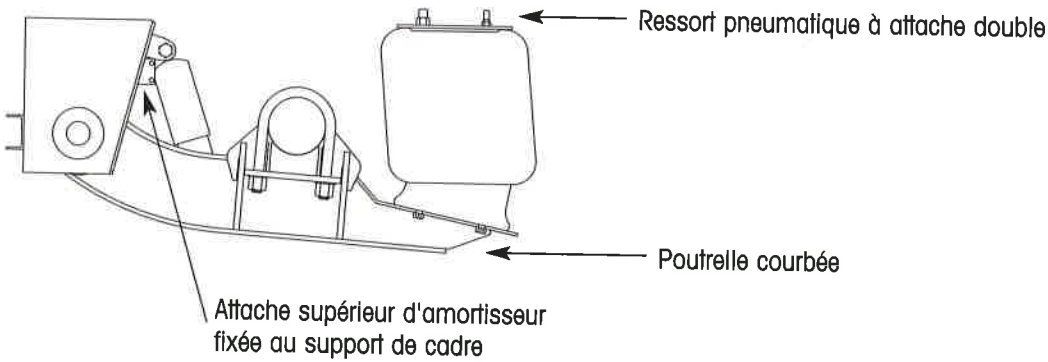


SUSPENSION SOUS ESSIEU GUIDE D'IDENTIFICATION

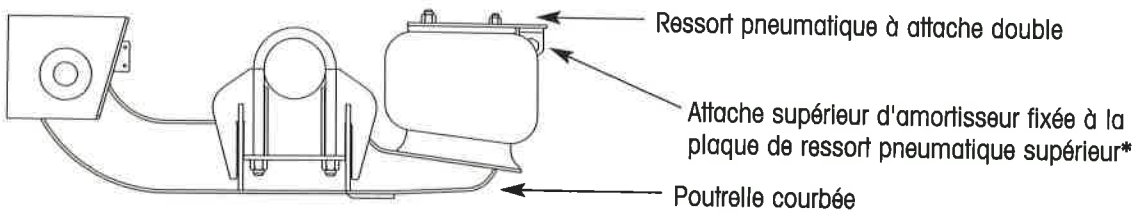
HT250US SOUS ESSIEU



HT300U SOUS ESSIEU



T ET T23 SOUS ESSIEU



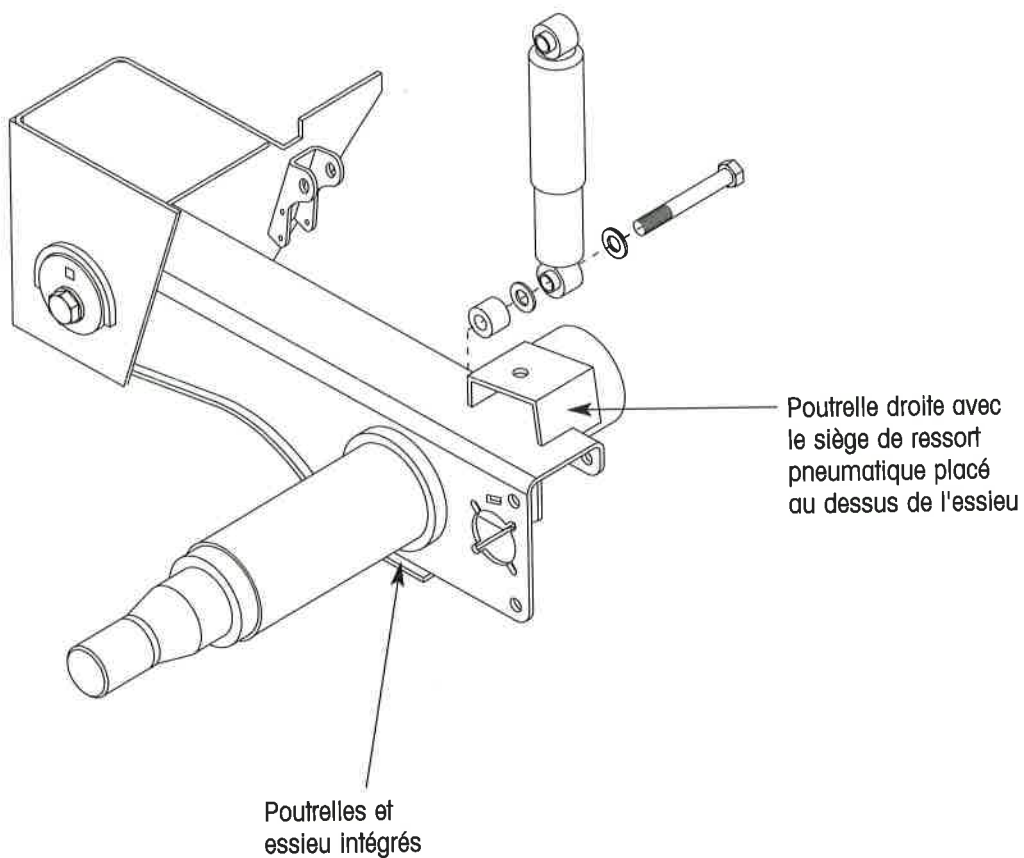
* T30 SOUS ESSIEU: Attache supérieur d'amortisseur fixée derrière le ressort pneumatique. See Canadian Suspensions Section.



INSTRUCTIONS

Suspensions INTRAAX® sont celles dont les poutrelles et l'essieu sont intégrés. Les illustrations suivantes illustrent les différentes caractéristiques des modèles sur essieu et à basse hauteur de roulement. Pour identifier votre suspension, trouvez l'illustration avec les mêmes caractéristiques.

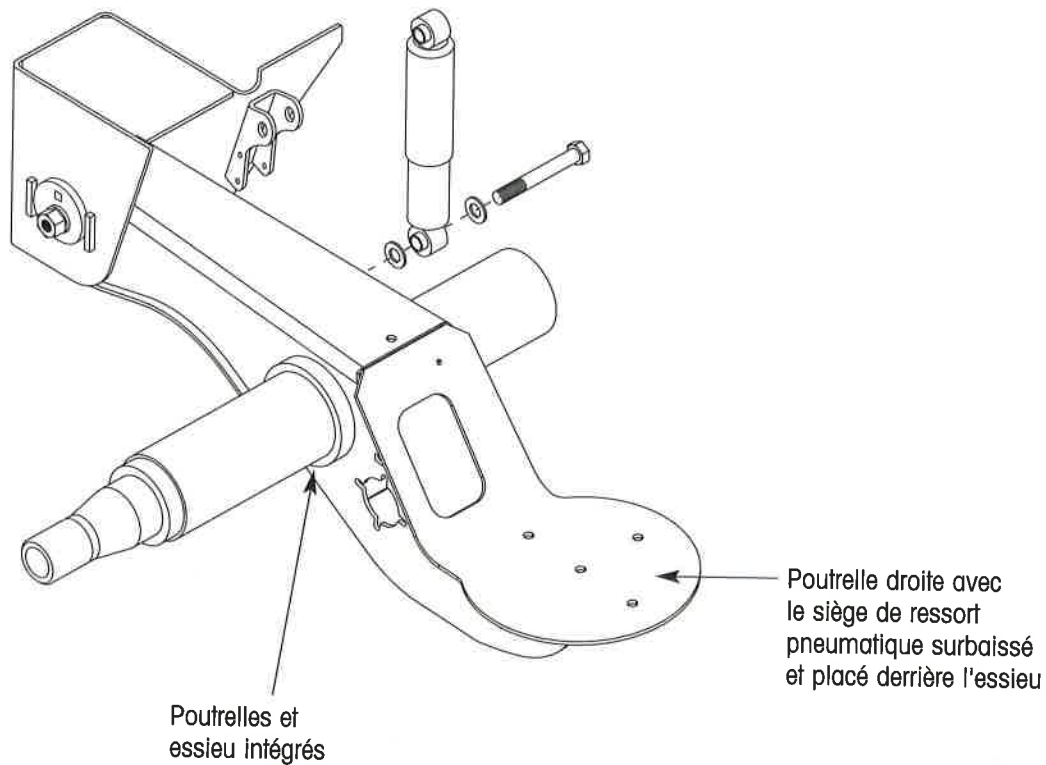
AA230T/AA250T INTRAAX®





SUSPENSION INTRAAX®
GUIDE D'IDENTIFICATION

AA230L/AA250L INTRAAX®



IDENTIFICATION DE LA SUSPENSION



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COMO USAR ESTE CATÁLOGO



SECCIÓN DE IDENTIFICACIÓN DE LA SUSPENSIÓN

Esta parte del catálogo contiene una sección de terminología, encontrando definiciones de términos comúnmente usados en la industria, así como términos específicos de Hendrickson. También contiene los pasos a seguir para la localización de la placa de identificación de la suspensión, así como también una guía para ayudarle a determinar el tipo de suspensión.

SECCIÓN DE CÁMARAS DE AIRE

Esta sección esta diseñada no solo para ayudar a identificar los componentes de las cámaras de aire, sino también para identificar las cámaras de aire Hendrickson partiendo de información dimensional específica. También se incluye una carta de aplicación indicando que cámaras de aire Hendrickson son usadas en cada modelo de suspensión.

SECCIÓN DE AMORTIGUADORES

Esta sección del catálogo contiene una tabla de identificación en la que se en lista el número de parte Hendrickson del amortiguador, seguida con su correspondiente información dimensional. También se incluye una tabla de aplicación indicando que amortiguadores Hendrickson son usados en cada modelo de suspensión. Finalmente, contiene una referencia con las cintas para amortiguadores, dando una tabla de referencia del número de amortiguador Hendrickson y su correspondiente paquete de cinta.

SECCIÓN DE SUSPENSIONES PRIMARIAS

Esta sección del catálogo contiene dibujos en explosión de los modelos de suspensión primarias con su correspondiente lista de partes.

SECCIÓN DE SUSPENSIONES DESLIZABLES

Esta sección contiene vistas en explosión de modelos específicos de suspensiones deslizables con su correspondiente lista de partes.

SECCIÓN DE PAQUETES DE LEVANTE CENTRALES

Esta sección contiene dibujos en explosión de los paquetes de levante centrales con su correspondiente lista de partes.

SECCIÓN DEL SURELOK®

Esta sección ilustra en explosión el SURELOK®, dispositivo de fijación de altura de manejo Hendrickson. Debido a que este producto es único, los números de parte deben ser obtenidos a través de Hendrickson.

SECCIÓN DE PAQUETES DE SERVICIO

En esta sección se encuentra indicado a detalle los componentes de varios paquetes de servicio Hendrickson.

SECCIÓN DE HERRAMIENTAS PARA SERVICIO

En esta sección se muestra visual y descriptivamente las herramientas más comunes para servicio Hendrickson.

SECCIÓN DE SUSPENSIONES CANADIENSES

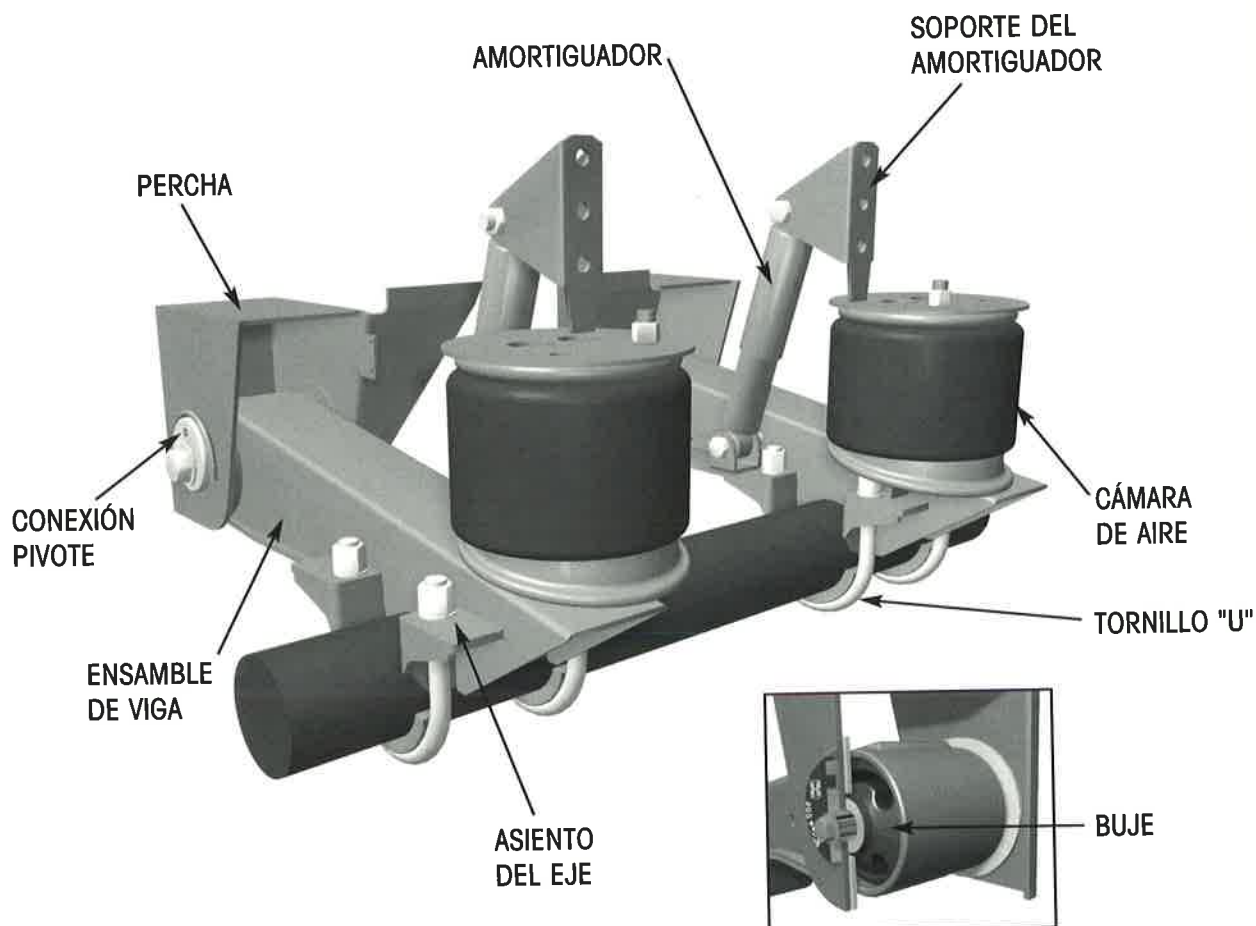
Esta sección incluye vistas en explosión de los modelos específicos de suspensiones Canadienses junto con sus partes de repuesto. También son listados a detalle los componentes de varios paquetes de servicio.



IMPORTANTE

Aunque la información contenida en este catálogo es confiable, Hendrickson no garantiza la precisión de la misma, ya que algunos contenidos están sujetos a cambio sin previo aviso ni obligación. Las vistas de partes en explosión mostradas no están a escala y no incluyen todas las partes de la suspensión, ya que son de referencia únicamente. Para dibujos de ingeniería de algún modelo específico, por favor contacte al Departamento de Servicio a Clientes.

PARTES DE LA SUSPENSIÓN



TERMINOLOGÍA ESTÁNDAR

TERMINOLOGÍA DE LAS CÁMARAS DE AIRE

CÁMARA DE AIRE (AIR SPRING) A veces llamada bolsa de aire. Soporta al remolque con la presión del aire.

MIEMBRO FLEXIBLE (FLEX MEMBER) Porción inflable de hule de la cámara de aire.

PISTÓN (PISTON) Porción inferior de la cámara de aire que se encuentra unida al miembro flexible. Se usa para montar la cámara de aire a la viga de la suspensión.

PLATO DE LA CÁMARA (BEAD PLATE) Superficie superior de montaje de la cámara de aire que está unida al miembro flexible.

TERMINOLOGÍA DEL EJE

ANCHO DE VÍA DEL EJE (AXLE TRACK) Distancia lateral entre el centro de la rodada doble en un eje.

ESPIGA HN (HN SPINDLE) Similar a la espiga D22 y a la TN. Espiga cónica con los rodamientos exteriores pequeños e interiores grandes.

ESPIGA HP (HP SPINDLE) Similar a la espiga P22 y a la TP. Espiga recta con rodamientos exteriores e interiores iguales.



TERMINOLOGÍA ESTÁNDAR

TERMINOLOGÍA DE LA VIGA

ENSAMBLE DE VIGA (BEAM ASSEMBLY) A veces conocidas como vigas caminadoras o brazos de arrastre. Estructura para soportar cargas que pivotea en la percha; conecta al tubo del eje y a la cámara de aire.

VIGA "Y" ("Y" BEAM) Ensamble de viga de la suspensión que se fija al bastidor del remolque en la conexión pivote.

TERMINOLOGÍA DE LA PERCHA

PERCHA (FRAME BRACKET) A veces conocidas como torres o cajas de soporte. Estructura que soporta cargas que se suelda o atornilla al bastidor del remolque y que se une a la viga a través de la conexión pivote.

PERCHA CON ALA (WINGED FRAME BRACKET) Percha con una placa o cartabón integral en la superficie interior trasera para dar soporte lateral.

PERCHA SIN ALA (WINGLESS FRAME BRACKET) Percha que no incluye una placa o cartabón integral. Generalmente se utiliza un canal "C" de 3" para dar soporte lateral.

PERCHA SOLDABLE (WELD-ON FRAME BRACKET) Percha que se suelda al bastidor de acero del remolque.

PERCHA ATORNILLABLE (BOLT-ON FRAME BRACKET) Percha con barrenos en la placa superior que se sujeta con tornillos a un bastidor de aluminio.

PERCHA SOLDABLE ATORNILLADA (WELDABLE BOLT-ON FRAME BRACKET) Percha que se sujeta con tornillos al bastidor de aluminio utilizando un plato de montaje provisto por el fabricante de equipo original.

TERMINOLOGÍA GENERAL

ALTURA DE MANEJO (RIDE HEIGHT) Distancia del centro del eje a la superficie de montaje de la suspensión (parte inferior del bastidor del remolque o del deslizante) en posición normal de operación.

BOTE (JOUNCE) El movimiento máximo hacia arriba del eje a partir de la altura de manejo hacia el bastidor, incluyendo la compresión del tope.

REBOTE (REBOUND) El movimiento máximo hacia abajo del eje a partir de la altura de manejo; controlado por el amortiguador.

MONTAJE POR ENCIMA DEL EJE (TOP MOUNT) Es una suspensión en la cual el ensamble de viga está arriba del eje.

MONTAJE POR DEBAJO DEL EJE (UNDERSLUNG) Es una suspensión en la cual el ensamble de viga está abajo del eje.

BUJE TRIFUNCIONAL® (TRI-FUNCTIONAL BUSHING®) Bujes de hule localizado en el ensamble de viga en la conexión pivote. Controla el movimiento lateral del vehículo y la alineación del eje.

CINTA DEL AMORTIGUADOR (SHOCK STRAP) Cinturón montado alrededor del amortiguador que proporciona resistencia adicional para limitar el rebote.

TORNILLO PIVOTE (PIVOT BOLT) Tornillo que une el ensamble de viga con la percha en la conexión pivote.

ALINEACIÓN SOLDABLE (WELDED ALIGNMENT) Sistema de alineación de la suspensión que se asegura con soldadura.

QUIK-ALIGN® Conexión de alineación de la suspensión la cual se ajusta con la rondana excéntrica y se asegura apretando el tornillo pivote a un par especificado.

TERMINOLOGÍA ESTÁNDAR cont.



TERMINOLOGÍA GENERAL cont.

ENSAMBLE UNITARIO (UNITIZED/ASSEMBLED) La suspensión se embarca con las perchas unidas a los ensambles de viga.

ENSAMBLE NO UNITARIO (NON-UNITIZED/UNASSEMBLED) La suspensión se embarca con las perchas y los tornillos pivotes separados.

RADIO ESTÁTICO DE LA RUEDA (LOADED TIRE RADIUS) Distancia del centro del eje al piso cuando el vehículo está cargado. Determinado por la medida y diseño de la llanta.

TERMINOLOGÍA DE PRODUCTOS HENDRICKSON

SERIE T (T SERIES) Primeros productos de suspensiones de Hendrickson para remolques. Ofrecidos en varias capacidades y configuraciones.

SERIE HT (HT SERIES) Mejoras de Hendrickson al modelo T; capacidades y configuraciones similares.

INTRAAX® Sistema integrado de eje, viga y frenos de Hendrickson.

SURELOK® Dispositivo usado para mantener al remolque a la altura del andén durante la carga y descarga. Utilizado también para evitar que el remolque camine, en lugar de utilizar una válvula de desfogue.

VÁLVULA DE CONTROL DE ALTURA (HEIGHT CONTROL VALVE) A veces conocida como válvula niveladora. Válvula de aire que responde automáticamente a la posición del eje respecto al bastidor del vehículo. Mantiene la distancia del centro del eje a la parte inferior del bastidor.

VÁLVULA DE DESFOGUE (DUMP VALVE) Válvula de liberación o de escape. Se agrega al sistema de aire de la suspensión del remolque para liberar el aire de la suspensión e incrementar la estabilidad durante la carga y la descarga.

SISTEMA DE LEVANTE (CENTER LIFT KIT) Mecanismo operado por aire que se utiliza para levantar del piso un eje del remolque.

HERRAMIENTA DE REEMPLAZO DEL BUJE (BUSHING TOOL) Herramienta especial para remover y reemplazar el Buje TriFuncional® del ensamble de viga.

TERMINOLOGÍA DEL DESLIZANTE

DESLIZANTE (SLIDER) A veces conocido como subbastidor o carretilla. Montaje de suspensión móvil usado para reposicionar los ejes del remolque.

RIEL (BODY RAIL) Riel de acero que se monta en el remolque. Contiene barrenos que se alinean con los pernos del deslizante.

BARRA MANUAL DE DETENCIÓN (MANUAL STOP BAR) Barra que se inserta entre los rieles y el bastidor del deslizante. Usado para detener el movimiento del deslizante mientras es reposicionado.

PERNO DE SUJECCIÓN (LOCKING PIN) Perno de la caja del deslizante que lo mantiene fijo. Se retracta para permitir el reposicionamiento del deslizante.



COMO IDENTIFICAR UN MODELO

- PASO 1.** Encuentre la placa de identificación del modelo de la suspensión tomando como referencia la siguiente carta para la localización de la misma.
- PASO 2.** Si la placa no se encuentra, contacte al fabricante del remolque con la información necesaria (ej. Número de serie del remolque) para determinar que modelo de suspensión es la del remolque.
- PASO 3.** Si el modelo de la suspensión no se puede obtener completando los pasos 1 y 2, consulte las guías de identificación para ayudar a determinar que modelo de suspensión es la del remolque. Vea las siguientes instrucciones.



MODELO DE SUSPENSION

LOCALIZACIÓN DE LA PLACA

Suspensión primaria tipo "T"	Enfrente de la percha del lado del operador
Suspensión primaria HT	Enfrente de la percha del lado del operador o por dentro de la viga del lado del acompañante
Suspensión primaria INTRAAX®	Por dentro de la viga del lado del operador
Suspensión deslizable HS con HT	Enfrente del travesaño de la caja HS
Suspensión deslizable HIS* con INTRAAX®	Enfrente del travesaño de la caja HS
Deslizable K-2 con suspensión HT	En la caja del lado del operador, por encima de la percha frontal
Deslizable K-2 con INTRAAX®	En la caja del lado del operador, por encima de la percha frontal
	También tiene una placa en blanco de INTRAAX® por dentro de la viga del lado del operador

* Si la parte es una suspensión HIS o INTRAAX®, contacte a Hendrickson para asistencia. El modelo específico de esta suspensión no está listado en este catálogo de partes.

GUÍA DE INSTRUCCIONES PARA IDENTIFICACIÓN

- PASO 1.** Determine si la suspensión es fija o deslizable.
- PASO 2.** Si es un deslizable, utilice las siguientes guías de identificación para determinar el tipo de caja y el modelo de suspensión. Proceda con ese modelo a la sección de Suspensión Deslizable.
Si es fija, utilice las siguientes guías de identificación para determinar el modelo de la suspensión. Proceda con ese modelo a la sección de Suspensiones Primarias.

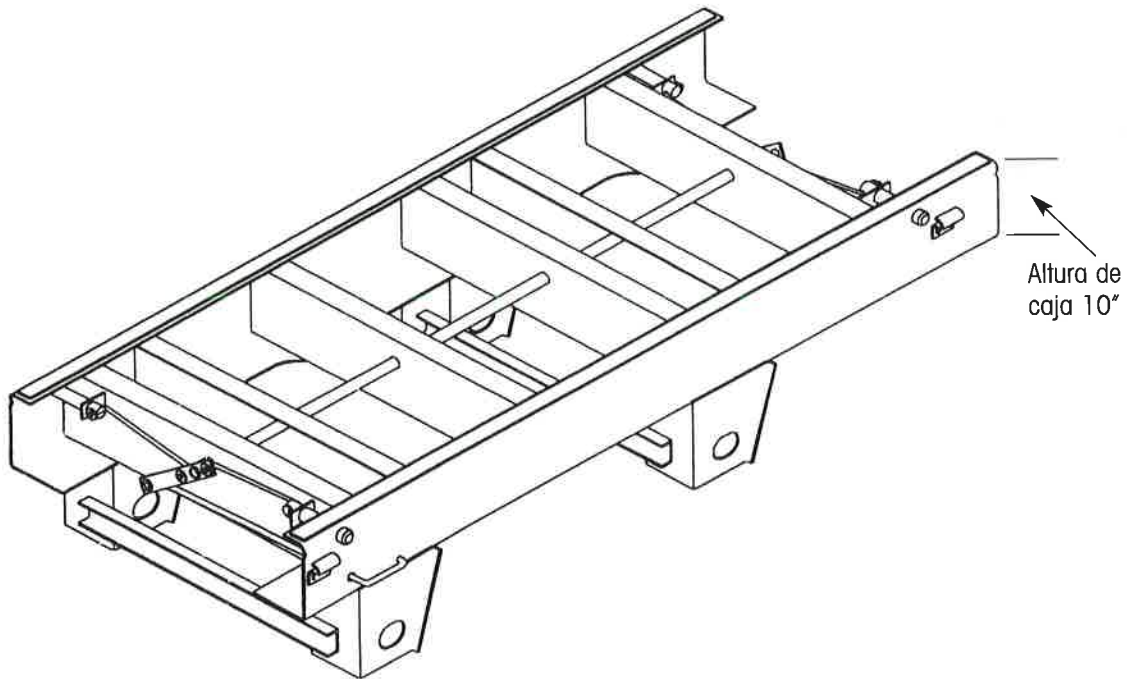
IDENTIFICACIÓN DE SUSPENSIONES



INSTRUCCIONES

Las cajas deslizables Hendrickson están fabricadas de dos diseños. Para determinar el tipo de caja, revise si los travesaños están orientados en forma de escalera o si forman dos "K" (ver dibujos). Si la orientación es de escalera, refiérase a la caja siguiente de HS190T/230. Si los travesaños forman una "K", use las dimensiones dadas en la siguiente hoja para determinar que modelo es.

CAJA HS190T/230

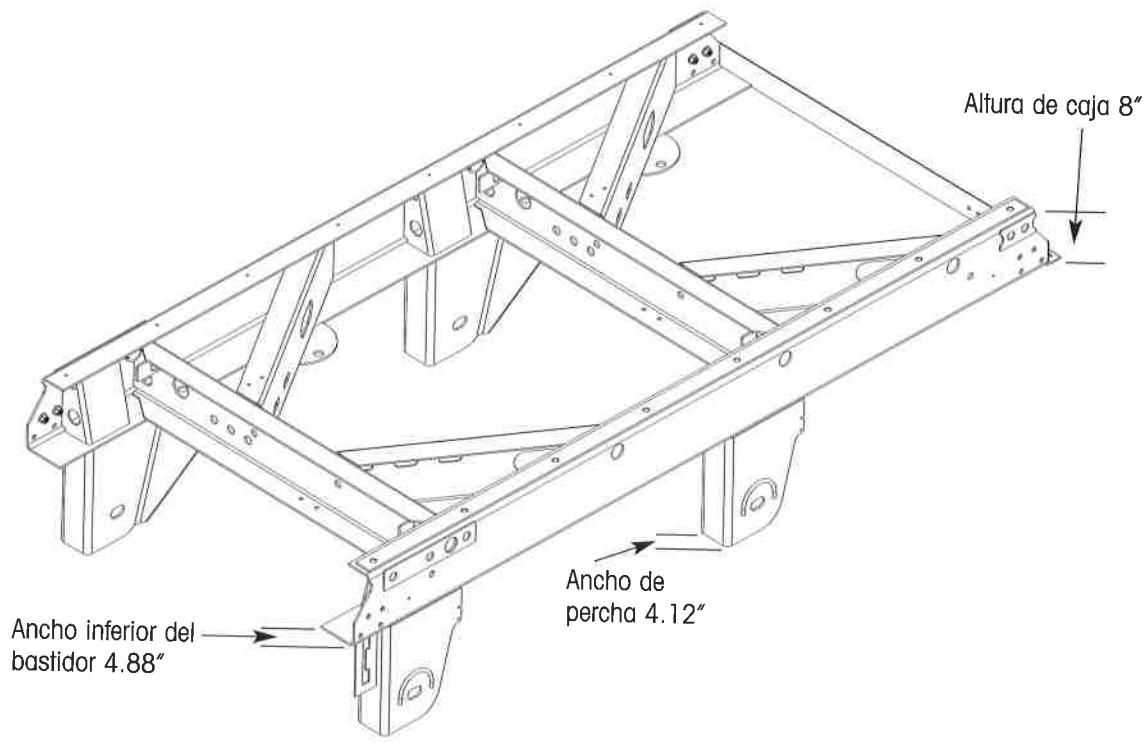




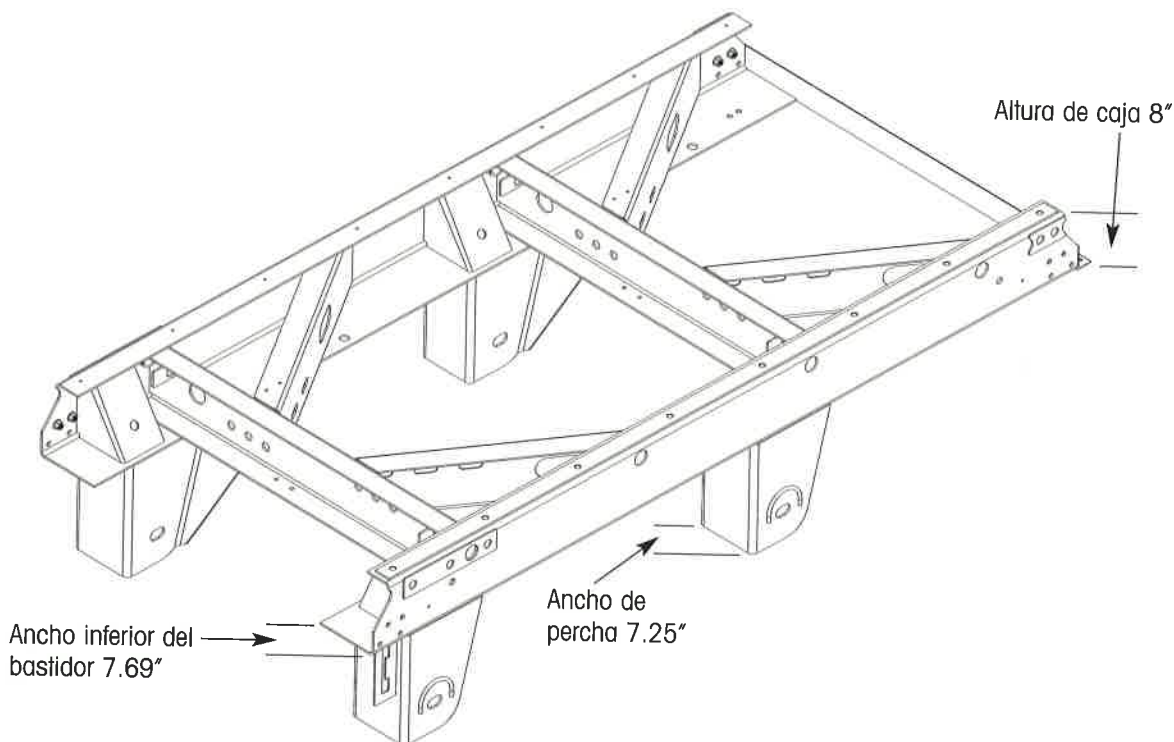
CAJAS DELIZABLES

GUÍA DE IDENTIFICACIÓN

CAJA VANTRAAX® HKA180



CAJA VANTRAAX® HK190T/230 Y HKA200/HKA250



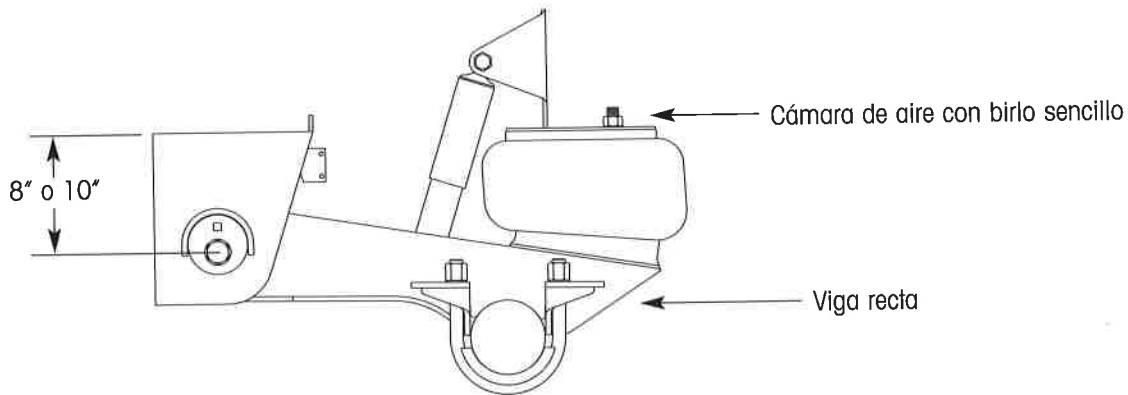
IDENTIFICACIÓN DE SUSENSIONES



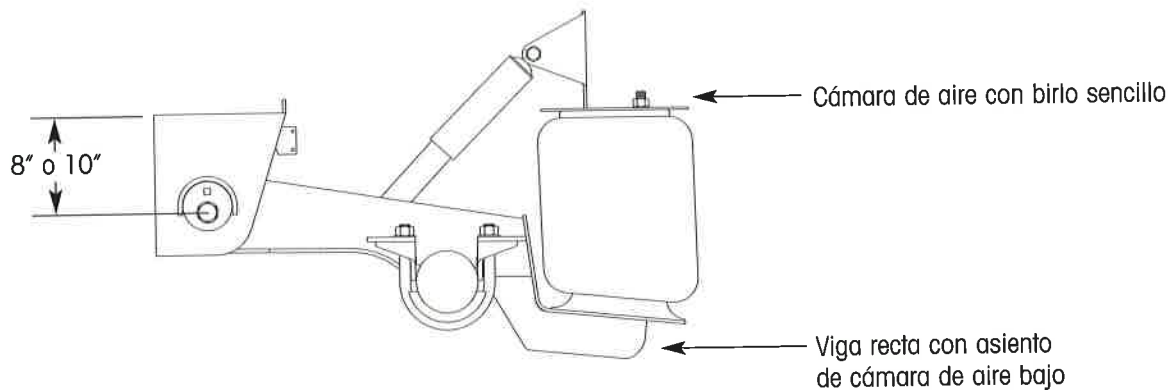
INSTRUCCIONES

Las suspensiones por arriba son aquellas con el ensamble de viga por encima del eje. Los gráficos descritos ilustran las diferentes características de varios modelos de suspensiones Hendrickson por arriba del eje. Para determinar el modelo de suspensión, encuentre el gráfico con las mismas características.

HT190 Y HT230 POR ARRIBA



HT250T POR ARRIBA

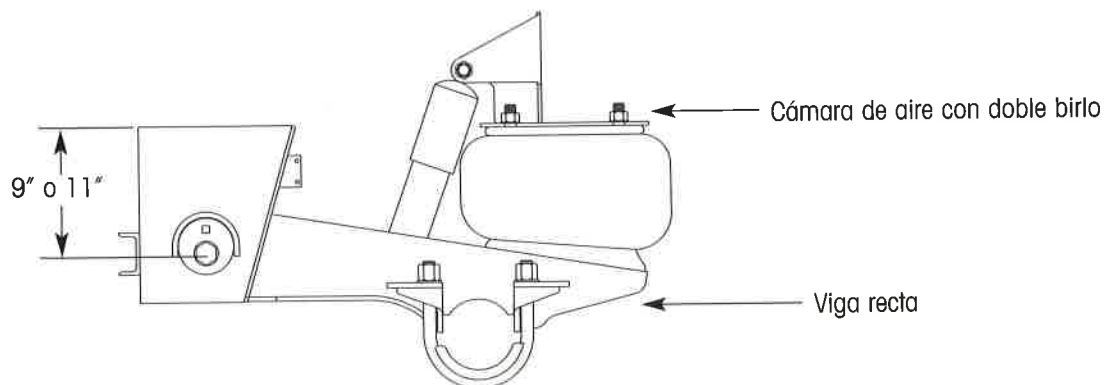




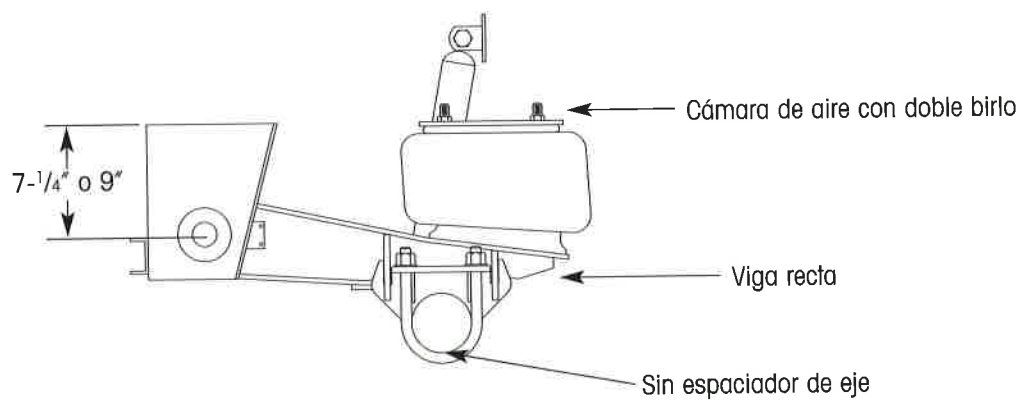
SUSENSIONES POR ARRIBA

GUÍA DE IDENTIFICACIÓN

HT300 POR ARRIBA



MODELO T POR ARRIBA

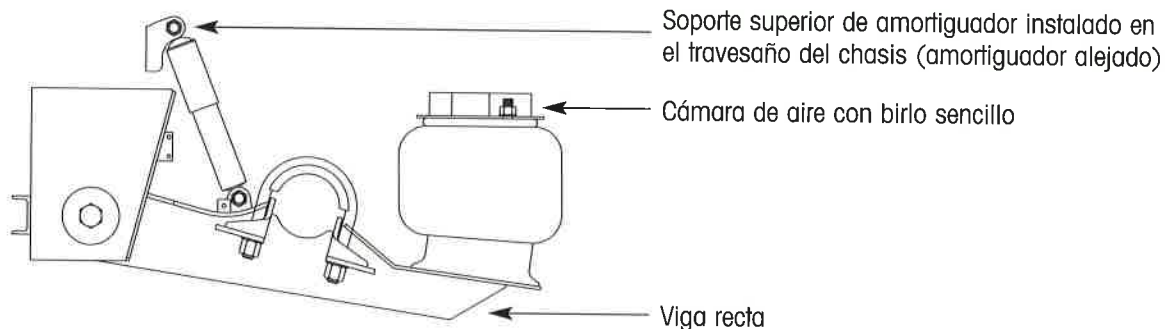




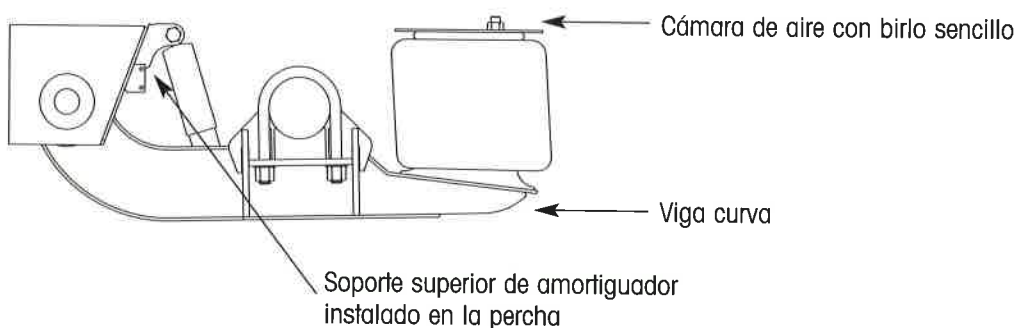
INSTRUCCIONES

Las suspensiones por debajo, son aquellas con el ensamble de viga por debajo del eje. Los gráficos descritos ilustran las diferentes características de varios modelos de suspensiones Hendrickson por debajo del eje. Para determinar el modelo de suspensión, encuentre el gráfico con las mismas características.

HT190U POR DEBAJO



HT250U POR DEBAJO

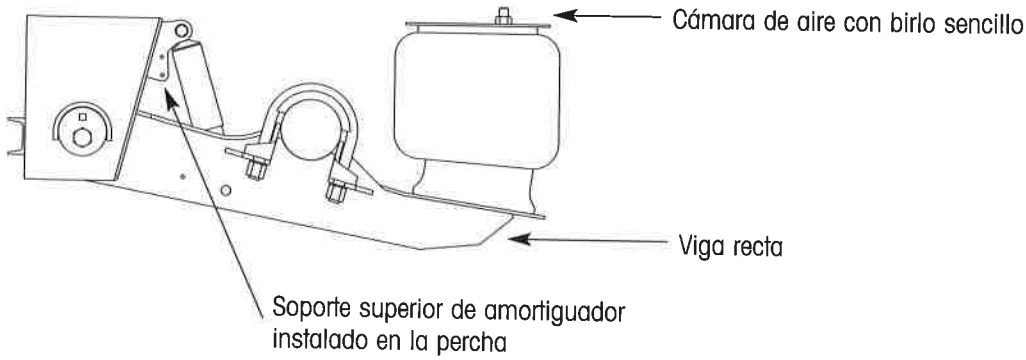




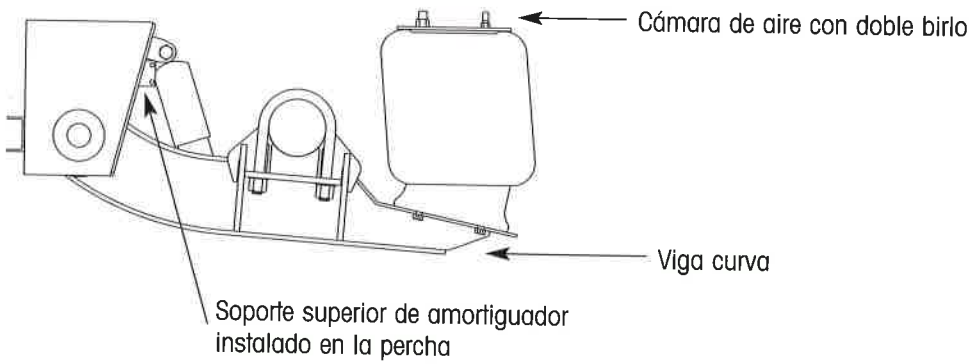
SUSENSIONES POR DEBAJO

GUÍA DE IDENTIFICACIÓN

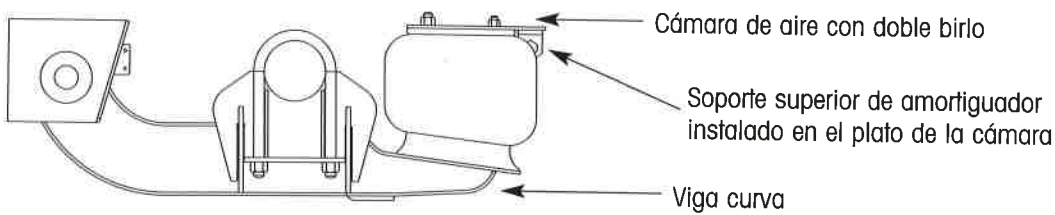
HT250US POR DEBAJO



HT300U POR DEBAJO



MODELO T POR DEBAJO

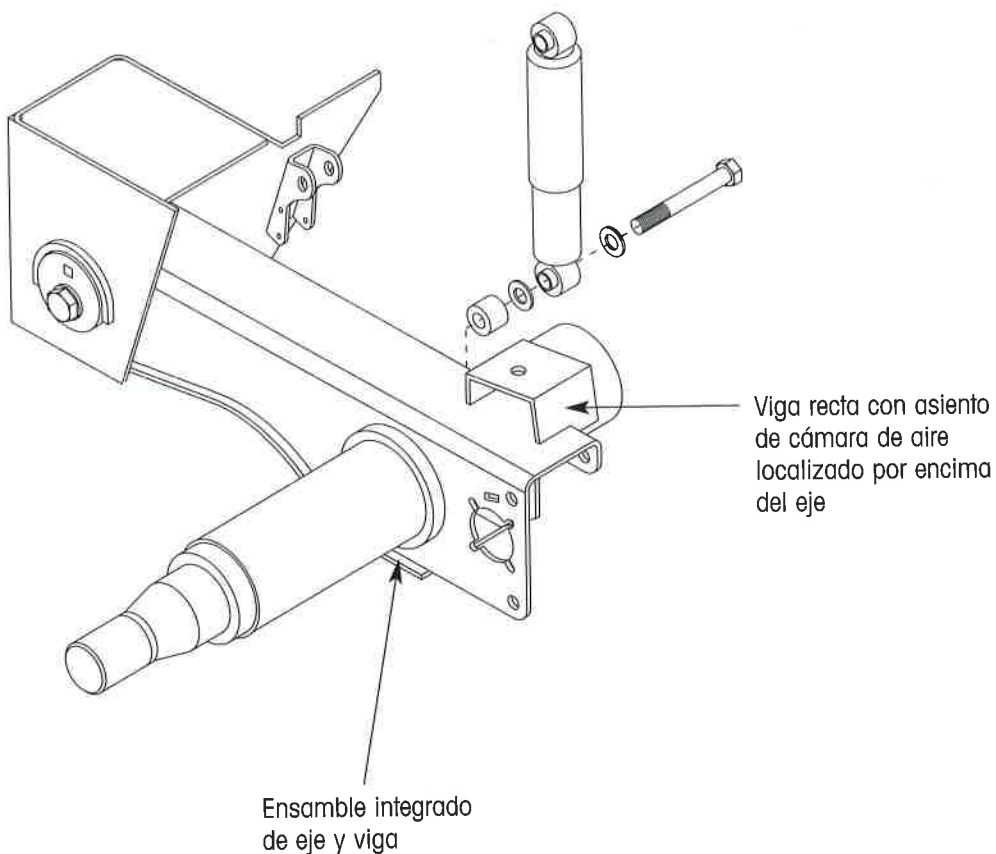




INSTRUCCIONES

Las suspensiones INTRAAX® de Hendrickson tienen un ensamble integrado de eje y viga. Los gráficos descritos ilustran las diferentes características de los modelos por arriba y de manejo bajo. Para determinar el modelo de suspensión, encuentre el gráfico con las mismas características.

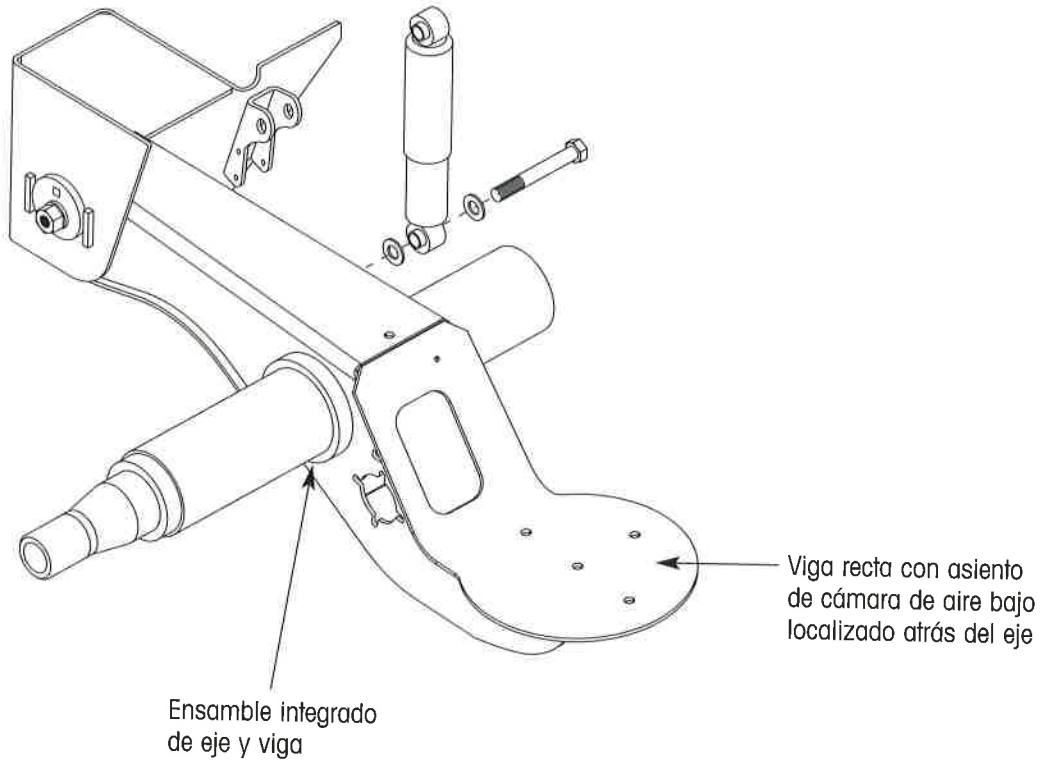
INTRAAX® AA230T/AA250T





SUSPENSIONES INTRAAX®
GUÍA DE IDENTIFICACIÓN

INTRAAX® AA230L/AA250L



IDENTIFICACIÓN DE SUSPENSIONES

