

H[®] SELECTION GUIDE

Equalizing Beam and Components

LIT NO: 45745-147

DATE: April 2008

REVISION: C

CONTENTS

	PAGE
Various Equalizing Beam Assembly Configurations With:	
Bar Pin End Bushings	3-5
Adapter End Bushings with Rubber Center Bushings	6-8
Adapter End Bushings with Bronze Center Bushings	9-10
Heavy-duty Beam End Bushings	11

CENTER BUSHINGS

BRONZE



HIGH CONFINEMENT



BEAM END BUSHINGS

SHIM BAR PIN



NON-SHIM BAR PIN

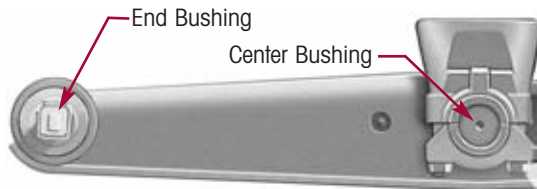


ADAPTER STYLE

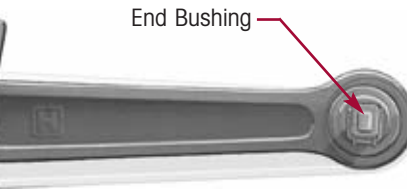


EQUALIZING BEAM

FABRICATED BEAM



FORGED/CAST BEAM



INTRODUCTION

The charts shown within this guide can be used to determine the following:

- The equalizing beam end bushing service kit required.
- The equalizing beam center bushing required
- The use of the equalizing beam part number to determine the proper and complete beam assembly required.

FABRICATED EQUALIZING BEAM

Hendrickson introduced the improvement from a forged/cast equalizing beam to a fabricated beam design between August 1999 and March 2000 and used for up to 46,000 pound capacity.

In February 2008 the fabricated beam was introduced for 52,000 pound capacity vehicles. The fabricated beams is completely interchangeable with the discontinued forged beams.

- Available for the R™, RT™/RTE™ series suspensions in 34,000 applications on 52" and 54" axle spacing.
- Available for the R™, RS™, RT, RTE series suspensions in 40,000 lbs. and 46,000 lbs. capacity applications on 52", 54", 60" and 72.5" axle spacing.
- Available in 52,000 lbs. capacity applications on 52", 54", 60", and 72" axle spacing

CONVERSION FROM RUBBER CENTER BUSHINGS TO BRONZE BUSHINGS

- Contact Hendrickson Sales Engineering to convert from rubber center bushings to bronze center bushings contact Hendrickson Sales Engineering (email: truckparts@hendrickson-intl.com).

FOR MORE INFORMATION

- Regarding the implementation of the fabricated beam, refer to literature number SEU-9903 and SEU-9904 or contact your local Hendrickson parts supplier, truck dealer, or Hendrickson Sales Engineering at 630.910.2800.
- To see more on Hendrickson genuine parts, refer to the Hendrickson Popular Kits and Part Catalog, literature number 45745-035.

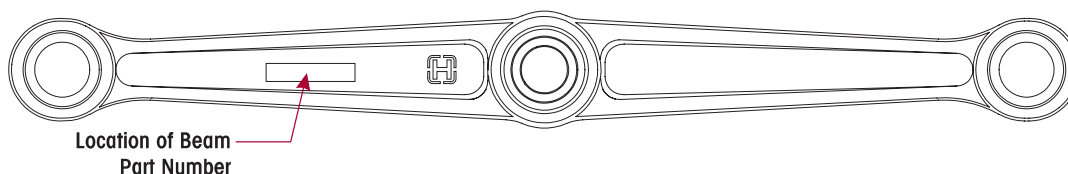
FABRICATED BEAM ASSEMBLY ORIENTATION



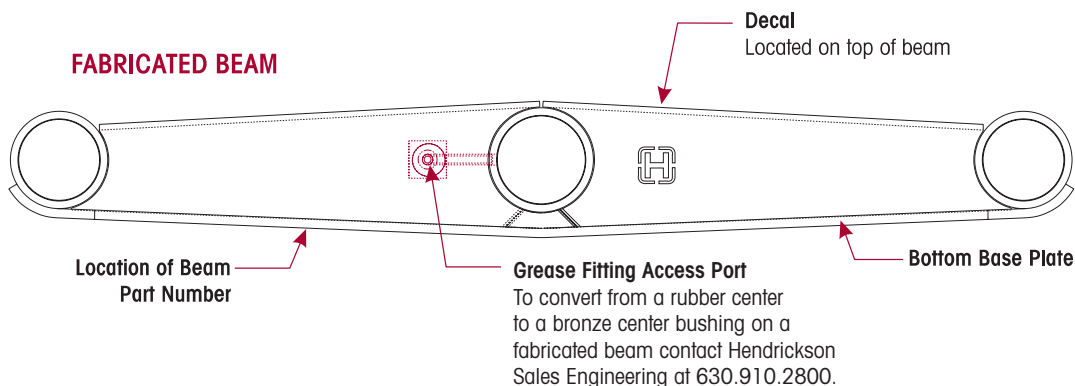
WARNING

IT IS VERY IMPORTANT THAT THE ORIENTATION OF THE BEAM BE IN THE UPRIGHT POSITION. A DECAL IS AFFIXED TO THE TOP OF BEAM TO ASSIST IN ASSEMBLY AND TO VERIFY ORIENTATION. FAILURE TO ASSEMBLE EQUALIZING BEAM IN THIS MANNER MAY RESULT IN THE LOSS OF VEHICLE CONTROL AND POSSIBLE PERSONAL INJURY OR PROPERTY DAMAGE.

FORGED/CAST BEAM



FABRICATED BEAM





■ EQUALIZING BEAM with Bar Pin End Bushings

IMPORTANT NOTES

- The beam length is measured from the centerline of one end bushing to the centerline of the other end bushing.
- All beam assembly part numbers shown in the following tables are furnished with both the center and end bushings installed.
- When using the fabricated style beams, the entire beam assembly must be replaced when converting from a rubber center bushing to a bronze center bushing to accommodate for the grease fitting and channel installation.

NON-SHIM BAR PIN BEAM END BUSHING KIT

Service Kit No. 34013-087L
Two (2) Kits Required Per Beam



SHIM BAR PIN BEAM END BUSHING KIT

Service Kit No. 34013-088L
Two (2) Kits Required Per Beam



340 SERIES • BRONZE CENTER • BAR PIN END BUSHINGS						
BRONZE CENTER	EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING SERVICE KIT	END BUSHING SERVICE KIT
	52"	43161-000	50001-014	FABRICATED	34013-053	34013-087L
		57231-000				
		59068-002				
		43161-000	50501-014			34013-088L
		57231-000				
		59068-002				
	54"	50543-000	50001-016	FABRICATED	34013-053	34013-087L
		59068-001				
		50543-000	50501-016			34013-088L
59068-001						



403/463 SERIES • BRONZE CENTER • BAR PIN END BUSHINGS							
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING SERVICE KIT	END BUSHING SERVICE KIT		
52"	49753-000	50001-015	FABRICATED	34013-054L	34013-087L		
	58755-002						
	49753-000	50501-015				34013-088L	
	58755-002						
54"	50543-000	50001-017			34013-087L		
	58755-001						
	50543-000	50501-017			34013-088L		
	58755-001						
56"	45876-000	50001-008	CAST	34013-087L			
		50501-008		34013-088L			
480/503/520/523 SERIES • BRONZE CENTER • RUBBER ENDS							
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING SERVICE KIT	END BUSHING SERVICE KIT		
52"	33967-002	50501-021	FABRICATED	34013-054L	34013-088L		
	67091-521						
54"	50543-000	50501-022				34013-087L	
	67091-521						
56"	45876-000	50001-008			34013-088L		
		50501-008					
340/343/403 SERIES • RUBBER CENTER • BAR PIN RUBBER END BUSHINGS							
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER			MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT
52"	43161-000	50000-024	FABRICATED	06664-000L	34013-087L		
	57231-000						
	60868-002						
	43161-000	50500-024			34013-088L		
	57231-000						
	60868-002						
	45116-000	50000-025		49400-000L	34013-087L		
	49753-000						
	60855-002						
	45116-000	50500-025			34013-088L		
	49753-000						
	60855-002						
54"	50543-000	50000-027	FABRICATED	06664-000L	34013-087L		
	60868-001						
	50543-000	50500-027			49400-000L	34013-088L	
	60868-001						
	50543-000	50000-028		34013-087L			
	60855-001						
	50543-000	50500-028		34013-088L			
	60855-001						
56"	45876-000	50000-010	CAST	49400-000L	34013-087L		
		50500-010			34013-088L		
*60"	46901-000	50000-030	FABRICATED	49400-000L	34013-087L		
	58755-003						
	46901-000	50500-030			34013-088L		
	58755-003						
*72.5"	29585-007	50000-014		49400-000L	34013-087L		
		50500-014				34013-088L	

*Requires Transverse Torque Rods



460/463 SERIES • RUBBER CENTER • BAR PIN END BUSHINGS							
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT		
52"	49753-000	50000-026	FABRICATED	*29483-005L	34013-087L		
	60855-002						
	49753-000	50500-026			34013-088L		
	60855-002						
54"	50543-000	50000-029			34013-087L		
	60855-001						
	50543-000	50500-029			34013-088L		
	60855-001						
56"	45876-000	50000-011	CAST		34013-087L		
		50500-011			34013-088L		
*60"	46901-000	50000-031	FABRICATED	34013-087L			
	58755-003						
	46901-000	50500-031		34013-088L			
	58755-003						
*72.5"	29585-007	50000-015		34013-087L			
		50500-015		34013-088L			
480/503/520/523 SERIES • RUBBER CENTER • BAR PIN END RUBBER BUSHINGS							
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER		MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT	
52"	33967-002	50500-039	FABRICATED	*29483-005L	34013-088L		
	67091-520						
54"	50543-000	50500-040			34013-087L		
	67091-540				34013-088L		
56"	45876-000	50000-011			34013-087L		
		50500-011			34013-088L		
*60"	46901-000	50000-031			34013-087L		
	44154-000						
	58755-003						
	46901-000	50500-031			34013-088L		
	44154-000						
58755-003							
*72.5"	31121-030	50000-016	34013-087L				
		50500-016	34013-088L				

RUBBER CENTER

*Requires Transverse Torque Rods

Equalizing Beam Assemblies with Adapter End Bushings

IMPORTANT NOTES

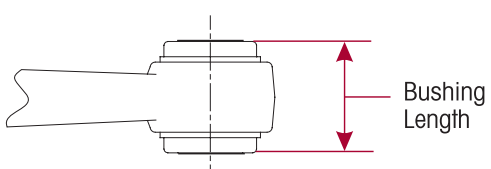
- The equalizing beam length is measured from the centerline of one end bushing to the centerline of the other end bushing.
- All equalizing beam assembly part numbers are furnished with both the center and end bushings installed. Hendrickson **DOES NOT** furnish equalizing beam assemblies without center and end bushings.
- When using the fabricated style equalizing beams, the entire beam assembly must be replaced when converting from a rubber center bushing to a bronze center bushing to accommodate for the grease fitting and channel installation.
- To help determine the End Bushing Kit needed, check the end bushing length.
- Center bushing, Part Number 29483-005 **ALWAYS REQUIRES** transverse rods.

ADAPTER END BUSHING

Two (2) Service Kits Required Per Equalizing beam



CAPACITY RATING	END BUSHING LENGTH	END BUSHING PART NUMBER	END BUSHING SERVICE KIT
340	5 1/4"	06969-000L	34013-048L
380	5 3/4"	45900-000L	34013-049L
400			
440			34013-073L
460			
480	29878-001L	34013-050L	
520	6"	45407-000L	34013-051L



340 SERIES • RUBBER CENTER • 5 1/4" & 5 3/4" ADAPTER RUBBER END BUSHINGS						
RUBBER CENTER	EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT
	50"	23268-000	07500-591	FABRICATED	06664-000L	34013-048L
		23274-000				
		29584-007				
		23286-000	07500-592			34013-049L
		23274-000				
		29584-007				
	52"	43089-000	OBSOLETE			
		35121-000	07500-593			
		57231-000				
43161-000						
60868-002						
54"	45891-000	07500-596				
	35091-002					
	35091-002					
	50543-000					
	60868-001					



380 SERIES • RUBBER CENTER • 5¾" ADAPTER RUBBER END BUSHINGS						
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT	
50"	06673-000	07500-458	FABRICATED	05919-000L	34013-049L	
	14054-000					
	15448-000					
	29585-027					
52"	33967-002	07500-594				
	43163-000					
	45116-000					
	60855-002					
54"	35581-001	07500-597				
	35091-002					
	45892-000					
	60855-001					
56"	45876-000	07500-555	CAST	49400-000L		
*60"	44154-000	07500-599	FABRICATED			
	46901-000					
	58755-003					
*72.5"	29585-007	07500-553				
400 SERIES • RUBBER CENTER • 5¾" ADAPTER RUBBER END BUSHINGS						
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL		CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT
50"	15448-000	OBSOLETE	FABRICATED		49400-000L	34013-049L
52"	43163-000	07500-594				
	49753-000					
	60855-002					
54"	35581-002	07500-597				
	35091-002					
	50543-000					
	60855-001					
56"	45876-000	07500-555		CAST		
*60"	44154-000	07500-599		FABRICATED		
	46901-000					
	58755-003					
*72.5"	29585-007	07500-553				
440 SERIES • RUBBER CENTER • 5¾" ADAPTER RUBBER END BUSHINGS						
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT	
50"	15448-000	OBSOLETE	FABRICATED	*29483-005L	34013-049L	
52"	43163-000	07500-595				
	60855-002					
	35581-002					
54"	35091-002	07500-598				
	60855-001					
	45876-000					07500-472
*60"	44154-000	07500-600				FABRICATED
	46901-000					
	58755-003					
*72.5"	29585-007	07500-474				

*Requires Transverse Torque Rods



460/463 SERIES • RUBBER CENTER • 5¾" ADAPTER RUBBER ENDS BUSHINGS					
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT
52"	49225-000	07500-595	FABRICATED	*29483-005L	34013-073L
	49753-000				
	60855-002				
54"	35091-002	07500-598			
	50543-000				
	60855-001				
56"	45876-000	07500-472	CAST		
*60"	46901-000	07500-600	FABRICATED		
	58755-003				
*72.5"	29585-007	07500-474			
480/520 SERIES • RUBBER CENTER • 5¾" ADAPTER RUBBER ENDS BUSHINGS					
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT
50"	15448-000	OBSOLETE	FABRICATED	*29483-005L	34013-050L
52"	33967-002	07500-606			
	67091-521				
54"	35091-002	07500-608			
	50543-000				
	35581-002				
	67091-541				
56"	45876-000	07500-441	CAST		
*60"	44154-000	07500-602	FABRICATED		
	46901-000				
	58755-003				
*72.5"	31121-030	07500-511			
520 SERIES • RUBBER CENTER • 6" ADAPTER RUBBER ENDS BUSHINGS					
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT
52"	33967-002	07500-607	FABRICATED	*29483-005L	34013-051L
	67091-521				
54"	50543-000	07500-609			
	35581-002				
	67091-541				
56"	45876-000	07500-442			
*60"	44154-000	07500-603	FABRICATED		
	46901-000				
	58755-003				
*72.5"	31121-030	07500-541			

RUBBER CENTER

*Requires Transverse Torque Rods



380 SERIES • BRONZE CENTER • 5¾" ADAPTER RUBBER ENDS BUSHINGS					
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING SERVICE KIT	END BUSHING SERVICE KIT
50"	06673-000	30247-111	FABRICATED	34013-054L	34013-049L
52"	33967-002	30247-151			
	43163-000				
54"	58755-002	30247-153			
	35581-001				
	35091-002				
56"	58755-001	30247-108	CAST		
340 SERIES • BRONZE CENTER • 5¼" & 5¾" ADAPTER RUBBER ENDS BUSHINGS					
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING SERVICE KIT	END BUSHING SERVICE KIT
50"	23274-000	30247-148	FABRICATED	34013-053	34013-048L
	29584-007				
	23274-000	30247-149			34013-049L
	29584-007				
52"	45631-000	30247-150			
	57231-000				
54"	59068-002	30247-152			
	35091-002				
	59068-001				
400/440 SERIES • BRONZE CENTER • 5¾" ADAPTER RUBBER ENDS BUSHINGS					
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING SERVICE KIT	END BUSHING SERVICE KIT
50"	15448-000	30247-111	FABRICATED	34013-054L	34013-049L
	29585-028				
52"	33967-002	30247-151			
	43163-000				
	49753-000				
	58755-002				
54"	35581-002	30247-153			
	35091-002				
	50543-000				
56"	58755-001	30247-108	CAST		
	45876-000				

BRONZE CENTER



460 SERIES • BRONZE CENTER • 5¾" ADAPTER RUBBER ENDS BUSHINGS					
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING SERVICE KIT	END BUSHING SERVICE KIT
52"	49225-000	30247-151	FABRICATED	34013-054L	34013-073L
	49753-000				
	58755-002				
54"	35091-002	30247-153			
	50543-000				
	58755-001				
56"	45876-000	30247-108	CAST		
480/520 SERIES • BRONZE CENTER • 5¾" ADAPTER RUBBER ENDS BUSHINGS					
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING SERVICE KIT	END BUSHING SERVICE KIT
50"	15448-000	OBSOLETE	FABRICATED	34013-054L	34013-050L
52"	33967-002	30247-154			
	67091-521				
54"	35091-002	30247-156			
	35581-002				
	50543-000				
	67091-541				
56"	45876-000	30247-100	CAST		
520 SERIES • BRONZE CENTER • 6" ADAPTER RUBBER ENDS BUSHINGS					
EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING SERVICE KIT	END BUSHING SERVICE KIT
52"	33967-002	30247-155	FABRICATED	34013-054L	34013-051L
	67091-521				
54"	35581-002	30247-157			
	50543-000				
	67091-541				
56"	45876-000	30247-101			

BRONZE CENTER



HEAVY-DUTY BRONZE CENTER	T SERIES 440/441/520/600/900 • BRONZE CENTER • BRONZE TUBE & NUT ENDS					
	EQUALIZING BEAM LENGTH	EQUALIZING BEAM PART NO.	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING SERVICE KIT	END BUSHING SERVICE KIT
	50"	31188-000	30644-001	Fabricated	34013-054L	34013-056
		29585-013				
	52"	33967-002	30644-003	Forged/Cast		
		54"	35581-002			
	35091-002					
	56"	11755-002	07600-011			
			07600-025	34013-078		
	58"	46023-000	30644-008	Fabricated	34013-054L	34013-056
46450-011						
58"	11058-002	07600-132	34013-080		34013-057L	
		07600-133	34013-078			

HEAVY-DUTY BRONZE CENTER	RT 650 • BRONZE CENTER • 6" ADAPTER RUBBER END BUSHINGS					
	BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT
	56"	46019-000	30247-106	CAST	34013-055L	34013-052
	60"	45760-002	30247-094			
72"	31122-020	30247-130	FABRICATED			
RT 650 • BRONZE CENTER • 7" ADAPTER RUBBER END BUSHINGS						
BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT	
56"	46019-000	**30247-121	CAST	34013-055L	34013-110	

HEAVY-DUTY RUBBER CENTER	RT 650 • RUBBER CENTER • 6" ADAPTER RUBBER END BUSHINGS					
	BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT
	54"	31122-016	07500-454	FABRICATED	10366-000L	34013-052
	56"	46019-000	07500-198	CAST		
**07500-446						
60"	45760-002	07500-453				
72"	31122-022	07500-582	FABRICATED			
RT 650 • RUBBER CENTER • 7" ADAPTER RUBBER END BUSHINGS						
BEAM LENGTH	EQUALIZING BEAM PART NUMBER	ASSEMBLY PART NUMBER	MATERIAL	CENTER BUSHING PART NUMBER	END BUSHING SERVICE KIT	
56"	46019-000	07500-490	CAST	10366-000L	34013-052	
		**07500-601				
60"	45760-002	07500-470				
72"	31122-023	07500-581	FABRICATED			

**2.25" beam offset, all other beams are 2.75" offset

This is a general selection guide to provide directional information. Components may vary by model. For questions, contact Hendrickson Sales Engineering at 630.910.2800 (email: truckparts@hendrickson-intl.com).

www.hendrickson-intl.com



Truck Suspension Systems
800 South Frontage Road
Woodridge, IL 60517-4904 USA

630.910.2800
Fax 630.910.2899