

Torque Rods



For more information visit www.theuniversalgroup.com or call 1.800.225.1845

Universal Group®



The Universal Group, LLC
1025 Thomas Busch Memorial Highway
Pennsauken, New Jersey 08110
1.800.225.1845
856.488.1800
Fax 1.800.360.9636

The TRAAX ROD™ Performance - Up to *five times the performance life of conventional double shot bushings and similar performance of ball and socket torque rods, with better energy absorption, delivering superior bushing retention and longer component life for heavy-and severe-duty applications.

Heavy-duty - Recommended for 40,000 lb. to 52,000 lb. capacity suspensions in most vocational applications.

Severe-duty - Recommended for 60,000 lb. to 70,000 lb. capacity suspensions. Also available for 40,000 lb. to 52,000 lb. capacity suspensions for even longer service intervals.

5x
5x
PERFORMANCE LIFE



TRAAX ROD BODY

- **Fabricated rod body** works in conjunction with our proprietary bushings to meet a large footprint for heavy loads and energy absorption from high articulation and side load events.
- **Offers easy and inexpensive flexibility** to create a variety of torque rod lengths. Length variety significantly reduces the need for shims which can compromise the connection integrity if not secured properly or used with correct shims.
- **One-piece design** supports uptime by removing and replacing with the original one-piece length for an accurate fit the first time.

* Based on internal testing of bushing walkout, retention and durability. Actual product performance may vary depending on component and vehicle configuration, operation, service and other factors.



TRAAX ROD BUSHINGS

- **Curled outer metal casing** places rubber in pre-compression mode to “harness” the energy and perform at the highest peak, providing best-in-class durability and performance.
- **Proprietary rubber material** helps reduce cost of ownership by absorbing horizontal, vertical and torsional forces for long component life.
- **High strength bond** of rubber to inner metal eliminates friction between the inner metal and rubber, minimizing bushing wear and increasing component life cycle.
- **Hardened steel bar pins and taper pins** deliver increased resistance against wear and abrasion to extend the service intervals of the component.

TRAAX ROD™ Torque Rods Smart Numbering System

The **TRAAX ROD** family uses the **Smart Numbering System**, in which each digit signifies the body style, bushing combination, bushing hole diameter, bushing clocking angle and the torque rod length.

TRAAX ROD Smart Numbering System

8 2 X X - X X X X - X X X

Body Style
Bushings Combination
Bushings Angle
Bushings 1
Torque Rod Length
(in 5 mm increments)
Bushings Angle
Bushings 2

STRADDLE BUSHING

TAPER BUSHING



(-)° (+)° Bushing Angle



8 2 X X - X X X X - X X X

8 2 X X - X X X X - X X X

BUSHING COMBINATION

BUSHING 1				BUSHING 2			
STRADDLE		TAPER		STRADDLE		TAPER	
Hole Diameter	Mounting Center	Length	Thread	Hole Diameter	Mounting Center	Length	Thread
5/8"	4 3/8"			5/8"	4 3/8"		
3/4"	4 3/8"			3/4"	4 3/8"		
7/8"	5 1/4"			7/8"	5 1/4"		
5/8"	4 3/8"					3"	1 1/4"
3/4"	4 3/8"					3"	1 1/4"
7/8"	5 1/4"					3"	1 1/4"

Recommended for 40K to 52K pound capacity suspensions in most vocational applications.

30	5/8"	4 3/8"		5/8"	4 3/8"		
31	3/4"	4 3/8"		3/4"	4 3/8"		
32	7/8"	5 1/4"		7/8"	5 1/4"		
33	5/8"	4 3/8"				3"	1 1/4"
34	3/4"	4 3/8"				3"	1 1/4"
35	7/8"	5 1/4"				3"	1 1/4"
36			3"	1 1/4"		3"	1 1/4"

Recommended for 60K to 70K pound capacity suspensions or 40K to 52K pound capacity suspensions for even longer service intervals.

8 2 X X - X X X X - X X X

TORQUE ROD LENGTH

In five (5) millimeter increments



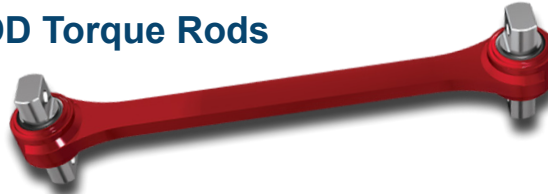
BUSHING ANGLE¹

Code	Degree
00	0° ²
01	5°
02	10°
03	15°
04	20°
05	25°
06	30°
07	35°
08	40°
09	45°
51	-5°
52	-10°
53	-15°
54	-20°
55	-25°
56	-30°
57	-35°
58	-40°
59	-45°
98	Taper Up ³
99	Taper Down

1. Contact Hendrickson for additional bushing angles.
2. Standard angle is 0° degrees.
3. Taper up bushing angle available only for 8236 series.

Hendrickson Genuine Parts are the same quality components installed in Hendrickson original equipment suspensions — consisting of the same design, construction, performance and durability. There's only one way to maintain and protect your suspension's original performance. Ask for the name that is synonymous with the finest manufactured suspensions in the world.

Hendrickson TRAAX ROD Torque Rods



TRAAX ROD Performance - Up to *five times the performance life of conventional double shot bushings and similar performance of ball and socket torque rods, with better energy absorption, delivering superior bushing retention and longer component life for heavy-and severe-duty applications.

Part Number	Description	Length	Hole Size	Bushing Angle	Similar To	Hendrickson Cross Reference
H-8240-0000-510	HENDRICKSON TRAAX ROD S.S.20.08"	20.08	.625	0/0	STR-1006	062000-510, 067428-510, 072000-510, 092000-510
H-8240-0000-535	HENDRICKSON TRAAX ROD S.S.21.06	21.06	.625	0/0	STR-1017	062000-535, 067428-535, 072000-535, 092000-535
H-8240-0000-545	HENDRICKSON TRAAX ROD S.S.21.46"	21.46	.625	0/0	STR-1007	072000-545S, 062000-545, 067428-545
H-8240-0000-560	HENDRICKSON TRAAX ROD PRIMAAX EX/ Kenworth / Peterbilt Refuse / Other S.S.22.05"	22.05	.625	0/0	STR-1008	062000-560, 067428-560, 072000-560, 092000-560
H-8240-0000-565	HENDRICKSON TRAAX ROD PRIMAAX EX / Kenworth / Peterbilt Refuse S.S.22.24"	22.24	.625	0/0		062000-565, 067428-565, 072000-565, 092000-565
H-8240-0000-570	HENDRICKSON TRAAX ROD S.S.22.44"	22.44	.625	0/0	STR-1009	062000-570, 067428-570, 072000-570, 092000-570
H-8240-0000-575	HENDRICKSON TRAAX ROD PRIMAAX EX / Autocar / Other S.S.22.64"	22.64	.625	0/0		062000-575, 067428-575, 072000-575, 092000-575
H-8240-0000-580	HENDRICKSON TRAAX ROD Peterbilt AirTrac, Air Leaf S.S.22.83"	22.83	.625	0/0	STR-1003	062000-580, 067428-580, 072000-580, 092000-580
H-8240-0000-595	HENDRICKSON TRAAX ROD PRIMAAX EX / Hino S.S.23.43"	23.43	.625	0/0		062000-595, 067428-595, 072000-595, 092000-595
H-8240-0000-620	HENDRICKSON TRAAX ROD PRIMAAX EX/FIREMAAX EX / Fire and Rescue / Other S.S.24.41"	24.41	.625	0/0	STR-1010	062000-620, 067428-620, 072000-620, 092000-620
H-8240-0000-640	HENDRICKSON TRAAX ROD PRIMAAX EX / Navistar S.S.25.20"	25.2	.625	0/0		062000-640, 067428-640, 072000-640, 092000-640
H-8240-0000-645	HENDRICKSON TRAAX ROD PRIMAAX EX / Navistar / Caterpillar S.S.25.39"	25.39	.625	0/0	STR-1002	062000-645, 067428-645, 072000-645, 092000-645



Hendrickson TRAAX ROD Torque Rods

5x
PERFORMANCE LIFE



Heavy-duty 40,000 lb. to 52,000 lb.

Severe-duty 60,000 lb. to 70,000 lb.

Part Number	Description	Length	Hole Size	Bushing Angle	Similar To	Hendrickson Cross Reference
H-8240-0000-650	HENDRICKSON TRAAX ROD Peterbilt Low Air Leaf / Flex Air S.S.25.59"	25.59	.625	0/0	STR-1001/STR-1005	062000-650, 067428-650, 072000-650, 092000-650
H-8240-0007-605	HENDRICKSON TRAAX ROD S.S.23.82"	23.82	.625	0/35	STR-1000	
H-8240-0007-615	HENDRICKSON TRAAX ROD S.S.24.21"	24.21	.625	0/35	STR-1019	
H-8244-0099-465	HENDRICKSON TRAAX ROD S.T.18.11"	18.11	.625	0/Taper	STR-1012	062350-465, 072350-465, 092350-465
H-8244-0099-585	HENDRICKSON TRAAX ROD HAULMAAX / Walking Beam / Peterbilt / Other S.T.23.03"	23.03	.625	0/Taper		062350-590, 072350-585, 092350-585
H-8244-0099-610	HENDRICKSON TRAAX ROD HAULMAAX / Walking Beam / Kenworth S.T.24.02"	24.02	.625	0/Taper		062350-615, 07235-610, 092350-610
H-8244-0099-615	HENDRICKSON TRAAX ROD HAULMAAX / Walking Beam / Kenworth S.T.24.21"	24.21	.625	0/Taper		062350-620, 07235-615, 092350-615
H-8244-0099-620	HENDRICKSON TRAAX ROD HAULMAAX / Walking Beam / Fire and Rescue S.T.24.41"	24.41	.625	0/Taper		062350-625, 07235-620, 09235-620
H-8244-0099-625	HENDRICKSON TRAAX ROD HAULMAAX / Walking Beam / Freightliner S.T.24.60"	24.6	.625	0/Taper		062350-630, 07235-625, 09235-625
H-8244-0099-635	HENDRICKSON TRAAX ROD HAULMAAX / Walking Beam / Mack / Waste Management S.T.25.00"	25	.625	0/Taper		062350-640, 07235-635, 09235-635
H-8244-0099-645	HENDRICKSON TRAAX ROD HAULMAAX / Walking Beam / Navistar S.T.25.39"	25.39	.625	0/Taper		062350-650, 07235-645, 09235-645
H-8244-0099-660	HENDRICKSON TRAAX ROD HAULMAAX / Walking Beam / Autocar S.T.25.98"	25.98	.625	0/Taper		072350-660, 092350-660

Fixed Length Torque Rods - Straddle / Straddle



Part Number	Description	OEM	Length	Shaft Diameter	Hole Size	Bushing Angle	Automann	Dayton Parts
STR-1000	TORQUE ROD - Freightliner	681 326 6716	23.938		.625	90/35	TMR514	345-212
STR-1000Z	ZF Torque Rod - Freightliner							
STR-1001	TORQUE ROD - Peterbilt and Kenworth	C65-6002	25.5	1.125	.625	90/90	TMR553	345-884
STR-1001C	Clevite Torque Rod - High Confinement Non-Rebushable for Peterbilt and Kenworth							
STR-1002	TORQUE ROD - International and Ford	501565C2	25.375	1.25	.625	90/90	TMR533	345-904
STR-1002C	Clevite Torque Rod - High Confinement Non-Rebushable for International and Ford							
STR-1003	TORQUE ROD - Peterbilt	03-02439	22.875	1.188	.625	90/90	TMR518	345-210
STR-1003C	Clevite Torque Rod - Peterbilt							
STR-1003Z	ZF Torque Rod - Peterbilt							
STR-1004	TORQUE ROD - Peterbilt	03-04327	17.344	1.25	.625, .75	90/10	TMR520	345-211
STR-1004Z	ZF Torque Rod - Peterbilt							
STR-1005	TORQUE ROD - Peterbilt	03-05108	25.563	1.25	.625	90/90	TMR532	345-215
STR-1005Z	ZF Torque Rod - Sealed for Peterbilt							
STR-1006Z	ZF Torque Rod - Sealed for Mack 20.0"	17QF460P200	20	1.125	.625		TMR568	
STR-1007Z	ZF Torque Rod - Sealed for Mack 21.5"	17QF460P215	21.5	1.125	.625		TMR571	
STR-1008Z	ZF Torque Rod - Sealed for Mack 22.0"	17QF460P220	22	1.125	.625		TMR555	
STR-1009Z	ZF Torque Rod - Sealed for Mack 22.5"	17QF460P225	22.5	1.125	.625		TMR573	
STR-1010Z	ZF Torque Rod - Sealed for Mack 24.5"	17QF460P245	24.5	1.125	.625		TMR576	
STR-1016Z	ZF Torque Rod - Mack 21"	17QF473M2	21	1.125	.625		TMR541	345-892
STR-1017Z	ZF Torque Rod - Sealed for Mack 21"	17QF460P210	21	1.125	.625		TMR570	
STR-1019C	Clevite Torque Rod - Sealed for Freightliner 24.21"	16-15632-000	24.219	1.25	.625	0/37	TMR536	345-916
STR-1020C	Clevite Torque Rod - International 18.125"	588117C91	18.125	1.25	.625		TMR510	345-188

Fixed Length Torque Rods - Straddle / Straddle

Part Number	Description	OEM	Length	Shaft Diameter	Bushing Hole Size	Angle	Automann	Dayton Parts
STR-1021C	Clevite Torque Rod - International 22"	588118C91, 588118C92	22	1.125	.625		TMR512T	345-187
STR-1022C	Clevite Torque Rod - Freightliner 16.625"	16-13053-000, 16-13498-000	16.625	1.563	.625		TMR516	345-208
STR-1023C	Clevite Torque Rod - Freightliner 18.187"	16-10420-001, E-3546	18.188	1.563	.625		TMR513	345-185
STR-1024C	Clevite Torque Rod - Freightliner 23"	681-326-63-16, E-8808	23	1.563	.625		TMR515	345-213
STR-1027C	Clevite Torque Rod - High Confinement Non-Rebushable for Freightliner 16.625"	16-19505-000	16.625		.625		TMR516F	345-938
STR-1028	TORQUE ROD - Mack	1RY48P23	18	1.188	.625	0/TP	TMR590	345-225

Fixed Length Torque Rods - Straddle / Hollow



Part Number	Description	OEM	Length	Hole Size	Automann	Dayton Parts
STR-1025C	Clevite Torque Rod - AG380	C65-6000-001	23.75	.625	TMR537	345-882
STR-1026C	Clevite Torque Rod - AG380	C65-6000-002	24.625	.625	TMR539	345-883

Fixed Length Torque Rods - Straddle / Tapered



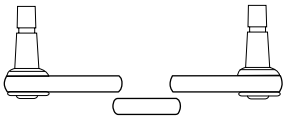
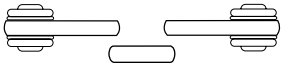
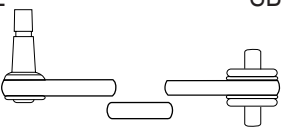
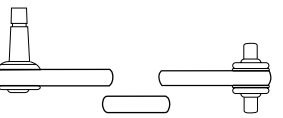
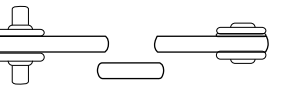
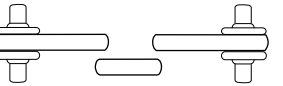
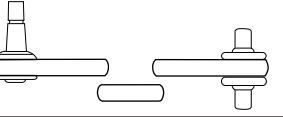
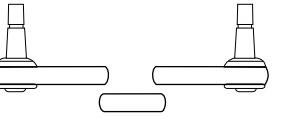
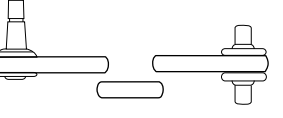
Part Number	Description	OEM	Length	Shaft Diameter	Hole Size	Automann	Dayton Parts
STR-1011Z	ZF Torque Rod - Sealed for Mack 18.25"	17QF463P183	18.25	1.25	.625	TMR591	345-226
STR-1012Z	ZF Torque Rod - Sealed for Mack 18.25"	17QF464P183	18.25	1.125	.625	TMR562	
STR-1013Z	ZF Torque Rod - Sealed for Mack 20.25"	17QF463P203	20.25	1.25	.625	TMR593	345-227
STR-1014Z	ZF Torque Rod - Sealed for Mack 19.75"	17QF463P198	19.75	1.25	.625	TMR592	
STR-1015Z	ZF Torque Rod - Sealed for Mack 24.5"	17QF463P245	24.5	1.25	.625	TMR596	345-229
STR-1018Z	ZF Torque Rod - Sealed for Mack 25.5"	17QF464P255	25.5	1.125	.625	TMR566	

ZF Uni-Rod Full Ball Three Piece Kits

Part Number	Reference Part Number	Suspension Rating (lbs.)	Description	Automann	Dayton Parts	Flagg
STRU-3001	HU-2040	20K-38K	Standard Hollow Ball, Both Ends (7/8" Dia. Hole), Neway Air Ride Suspension	TMR058	345-814	TR17
STRU-3002	BU-3436	34K-36K	Standard Ball Stud (Hendrickson) Both Ends (1 1/8"-12 Threads)	TMR008	345-817	TR3
STRU-3003	HU-3436	34K-36K	Standard Hollow Ball, Both Ends (7/8" Dia. Hole), 20"-30" Fruehauf Air Ride Suspension	TMR060	345-811	TR18
STRU-3004	HU-3436L	34K-36K	Standard Hollow Ball, Both Ends (7/8" Dia. Hole), 30"-40" Fruehauf Air Ride Suspension	TMR061	345-812	
STRU-3005	SBU-3436	34K-36K	Standard Ball Stud (Hendrickson) One End (1 1/8"-12 Thread). Standard Straddle Ball, Other End	TMR010	345-807	TR4
STRU-3006	SU-3436	34K-55K	Standard Straddle Ball, Both Ends. Also Used as A Track Bar And For On-Highway Use Up To 55,000 Suspension.	TMR006	345-803	TR2
STRU-3007	IHU-3444*	34K-65K	Offset Straddle Ball, One End. Standard hollow Ball, Other End (1 1/8" Dia. Hole). Navistar Suspension Only.	TMR054	345-809	TR15
STRU-3008	MU-3800	38K-55K	Ball Stud, Both Ends (1 1/4"-12 Thread). Mack Suspension Only.	TMR012	345-818	TR5
STRU-3009	SMU-3800	38K-55K	Ball Stud, One End (1 1/4"-12 Thread). Standard Straddle Ball, Other End. Mack Suspension Only.	TMR014	345-804	TR6

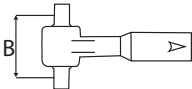
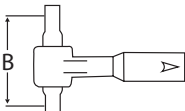
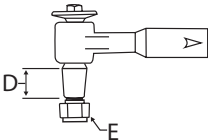
* Indicates Heavy - Duty Kit

ZF Uni-Rod Full Ball Three Piece Kits

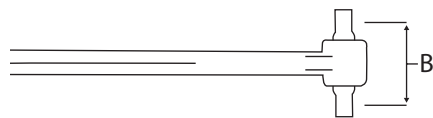
Part Number	Reference Part Number	Suspension Rating (lbs.)	Description	Automann	Dayton Parts	Flagg
STRU-3010 	BU-3844*	38K-65K	Standard Stud (Hendrickson) Both Ends (1 1/4" - 12 Threads).	TMR044	345-819	TR10
STRU-3011 	HU-3844*	38K-65K	Standard Hollow Ball, Both Ends (1 1/8" Dia. Hole).	TMR046	345-820	TR11
STRU-3012 	SBU-3844*	38K-65K	Standard Ball Stud (Hendrickson) One End (1 1/4" - 12 Thread). Standard Straddle Ball, Other End.	TMR050	345-801	TR13
STRU-3013 	SBU-3844-75*	38K-65K	Standard Ball Stud (Hendrickson) One End (1 1/4" - 12 Thread). Straddle Ball, Other End (For 3/4" Dia. Mounting Bolts).	TMR062	345-821	TR19
STRU-3014 	SHU-3844*	38K-65K	Standard Straddle Ball, One End. Standard Hollow Ball, Other End (1 1/8" Dia. Hole).	TMR048	345-810	TR12
STRU-3015 	SU-3844*	38K-65K	Standard Straddle Ball, Both Ends. Also Used As A Track Bar (2 3/8" Ball).	TMR020	345-802	TR9
STRU-3016 	LMU-4044*	44K-80K	Ball Stud, One End (1 1/4" - 12 Thread). Straddle Ball, Other End (For 7/8" Mounting Bolts). Mack Suspension Only.	TMR056	345-805	TR16
STRU-3017 	MU-4044*	38K-65K	Ball Stud, Both Ends (1 1/4" - 12 Thread). Mack Suspension Only.	TMR016	345-808	TR7
STRU-3018 	SMU-4044*	38K-65K	Ball Stud, One End (1 1/4" - 12 Thread). Standard Straddle Ball, Other End. Mack Suspension Only.	TMR018	345-806	TR8

Note: Where Mack Suspension Only" is specified, the mounting ball stud taper differs from normal industry standards.

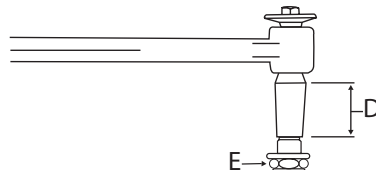
Hendrickson Ultra Rod Two Piece Torque Rods - Tube Ends

Part Number	End Type	Mounting Center “B”	Replacement Bushing	Hole Diameter	Automann	Dayton Parts
H-66610-000	Straddle	4.375”	H-47691-000	.625”	TMRN610	345-610
						
H-66640-000	Straddle	5.688”	H-66734-000	.75”	TMRN640	345-640
						
Part Number	End Type	“D” x “E” Thread	Replacement Bushing		Automann	Dayton Parts
H-66620-000	Tapered	2” x 1.125”	H-64809-000		TMRN620	345-620
						

Hendrickson Ultra Rod Two Piece Torque Rods - Spacer Ends

Part Number	End Type	Mounting Center "B"	Length C to C	Replacement Bushing	Hole Diameter	Automann	Dayton Parts
H-66660-000	Straddle	4.375"	35"	H-47691-000	.625"	TMRN660	345-660
H-66661-000	Straddle	4.375"	27"	H-47691-000	.625"	TMRN661	345-661
							

Hendrickson Ultra Rod Two Piece Torque Rods - Spacer Ends

Part Number	End Type	"D" to "E" Thread	Length C to C	Replacement Bushing	Automann	Dayton Parts
H-66680-000	Tapered	3" x 1.25"	35"	H-64697-000	TMRN680	345-680
						



Hendrickson PRIMAAX Torque Rods

Part Number	Description	Length	Hole Size	Bushing	
				Type	Angle
H-67219-435	GENUINE HENDRICKSON PAX Torque Rod 17.12" for ADB	17.125		S/S	0/2.5
H-67219-475	GENUINE HENDRICKSON PAX Torque Rod 18.70" for ADB	18.688		S/S	0/11
H-67274-510	GENUINE HENDRICKSON PAX TROD FRT 20.08" CRMP	20.063	.625, .875	S/H	
H-67274-540	GENUINE HENDRICKSON PAX TROD FRT 21.26" CRMP	21.25	.625, .875	S/H	
H-67428-435	GENUINE HENDRICKSON PAX Torque Rod for PRIMAAX EX / 17.13" Kenworth - 435mm	17.125	.625	S/S	
H-67428-475	"GENUINE HENDRICKSON PAX TORQUE ROD 18.71"" REAR	18.688	.625	S/S	

Universal Group®



www.theuniversalgroup.com