

## Center-Bonded Mounts

**Featuring:** CB-1100 Series  
 CB-1180 Series  
 CBA Series  
 CBA-50 Series  
 STA Series  
 Safetied Tubeform Series

LORD Center-Bonded Mounts isolate vibration, control shock and reduce noise due to structure borne vibrations. Available in a full range of rated load capacities and able to withstand shock loads of 10 g's, these mounts effectively protect equipment and improve operator comfort. They are ideal for automotive, marine, railroad and industrial markets.

Center-Bonded Mounts provide flexible suspension systems for mobile, transport-mounted or portable equipment. Typical applications include engines, cabs, fuel tanks, pumps, air conditioning units, compressors and industrial machinery.

### Features and Benefits

- Vibration isolation in all directions
- Noise attenuation
- Easy installation because of one-piece design
- Low-cost installation
- Long service life
- Consistent performance because of permanently bonded design
- Shock protection in all directions provided by cushioned snubbing, no metal-to-metal bottoming
- Standard sizes available from stock
- Space-saving size
- Captive installation after overload failure when recommended bolt, washer and nut are used
- Accommodate English and Metric bolts

### Application Engineering Assistance

Frequently, vibration isolation problems require a system engineering analysis. LORD has the computer capability, as well as specialized programs, for analyzing engine/transmission combinations. The output from this analysis is a mounting proposal which optimizes performance over the complete range of operating speeds. This service is available to you upon request.

## CB-1100 Series

**Table 1 – Specifications and Dimensions**

Part Number	Maximum Axial Static Load Rating ①				Part Dimensions											
	Load		Deflection		A ±0.03		B ±0.01		C ±0.015		D		E ±0.015		F ±0.02	
	lb	N	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
CB-1120-1	75	330	0.025	0.64	1.09	27.7	0.40	10.2	0.81	20.6	1.02	25.9	0.62	15.7	0.22	5.6
CB-1120-3	125	560	0.025	0.64	1.09	27.7	0.40	10.2	0.81	20.6	1.02	25.9	0.62	15.7	0.22	5.6
CB-1121-2	250	1110	0.04	1.02	1.75	44.5	0.515	13.1	1.24	31.5	1.25	31.8	1.00	25.4	0.41	10.4
CB-1121-4	450	2000	0.04	1.02	1.75	44.5	0.515	13.1	1.24	31.5	1.25	31.8	1.00	25.4	0.41	10.4
CB-1122-2	350	1560	0.06	1.52	2.00	50.8	0.532	13.5	1.35	34.3	1.62	41.1	1.31	33.3	0.53	13.5
CB-1122-4	600	2670	0.06	1.52	2.00	50.8	0.532	13.5	1.35	34.3	1.62	41.1	1.31	33.3	0.53	13.5
CB-1123-2	500	2230	0.07	1.78	2.50	63.5	0.648	16.5	1.62	41.2	2.00	50.8	1.69	42.9	0.62	15.7
CB-1123-5	1000	4450	0.06	1.52	2.50	63.5	0.648	16.5	1.62	41.2	2.00	50.8	1.69	42.9	0.62	15.7
CB-1124-2	750	3340	0.085	2.16	2.98	75.7	0.648	16.5	1.98	50.3	2.22	56.4	2.00	50.8	0.81	20.6
CB-1124-5	1400	6230	0.07	1.78	2.98	75.7	0.648	16.5	1.98	50.3	2.22	56.4	2.00	50.8	0.81	20.6
CB-1125-2	1400	6230	0.13	3.30	3.74	95.0	0.803	20.4	2.23	56.6	2.48	63.0	2.00	50.8	1.00	25.4
CB-1125-4	2100	9350	0.12	3.05	3.74	95.0	0.803	20.4	2.23	56.6	2.48	63.0	2.00	50.8	1.00	25.4

Mounts and washers only supplied by LORD. For installation instructions, refer to Center-Bonded Mounts, Installation Guide section.

① These ratings are for general industrial applications. For on-highway, use 80% of loads shown. For off-highway, use 70% of loads shown.

In applications where the mounts will be immersed in oil, parts made in oil-resistant elastomer are available. Contact LORD for additional information.

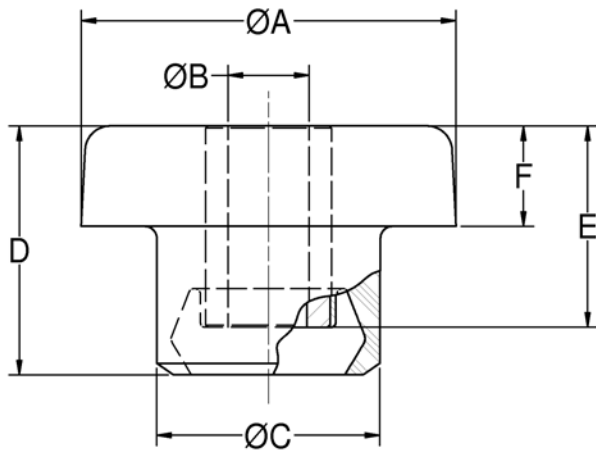
**Table 2 – Specifications and Dimensions**

Part Number	Required Mating Directions												Recommended Bolt Information*				Nominal Dynamic/Static Spring Rate Ratio ②
	H ±0.03		I <sub>D</sub> Min. Dia.		K <sub>D</sub> Min. Dia.		S <sub>D</sub> ±0.03		T ±0.03		R ±0.015		Size		Grade or Class		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	English	Metric	SAE J429	SAE J1199	
CB-1120-1	0.21	5.3	1.25	31.8	1.12	28.5	.75	19.1	0.31	7.9	0.06	1.5	3/8	M10	2	5.8	1.08
CB-1120-3	0.21	5.3	1.25	31.8	1.12	28.5	.75	19.1	0.31	7.9	0.06	1.5	3/8	M10	2	5.8	1.19
CB-1121-2	0.38	9.7	2.00	50.8	1.50	38.1	1.12	28.4	0.38	9.7	0.06	1.5	1/2	M12	2	5.8	1.15
CB-1121-4	0.38	9.7	2.00	50.8	1.50	38.1	1.12	28.4	0.38	9.7	0.06	1.5	1/2	M12	2	5.8	1.22
CB-1122-2	0.45	11.4	2.25	57.2	2.00	50.8	1.25	31.8	0.62	15.8	0.06	1.5	1/2	M12	2	5.8	1.15
CB-1122-4	0.45	11.4	2.25	57.2	2.00	50.8	1.25	31.8	0.62	15.8	0.06	1.5	1/2	M12	2	5.8	1.22
CB-1123-2	0.56	14.2	2.88	73.2	2.25	57.2	1.50	38.1	0.75	19.1	0.06	1.5	5/8	M16	8	10.9	1.15
CB-1123-5	0.56	14.2	2.88	73.2	2.25	57.2	1.50	38.1	0.75	19.1	0.06	1.5	5/8	M16	8	10.9	1.23
CB-1124-2	0.71	18.0	3.50	88.9	2.50	63.5	1.81	46.0	0.93	23.6	0.06	1.5	5/8	M16	8	10.9	1.15
CB-1124-5	0.71	18.0	3.50	88.9	2.50	63.5	1.81	46.0	0.93	23.6	0.06	1.5	5/8	M16	8	10.9	1.23
CB-1125-2	0.94	23.9	4.25	108.0	3.00	76.2	2.00	50.8	0.75	19.1	0.12	3.0	3/4	M18	8	10.9	1.15
CB-1125-4	0.94	23.9	4.25	108.0	3.00	76.2	2.00	50.8	0.75	19.1	0.12	3.0	3/4	M18	8	10.9	1.22

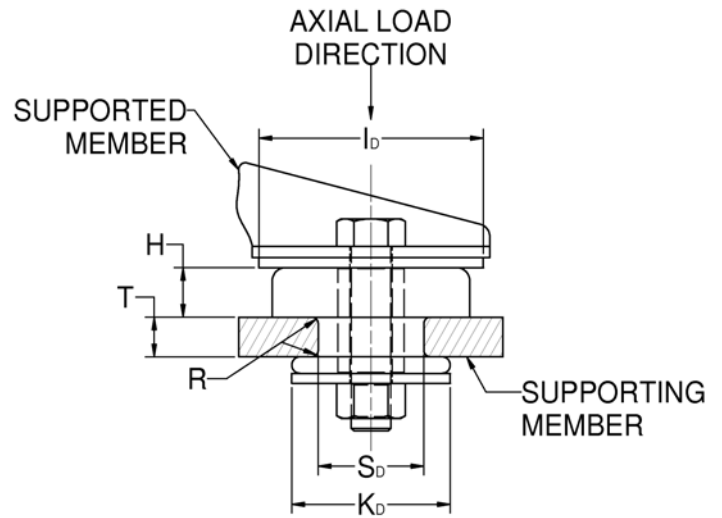
For installation instructions, refer to Center-Bonded Mounts, Installation Guide section.  
 \* For tightening torque information, refer to Tightening Torque Charts section.

② This column of figures can be used to calculate dynamic spring rate for natural frequency based on static values.  
 $(K_{DYN} = K_{ST} \times \frac{DYN}{STATIC} \text{ Ratio})$

**Figure 1 – Part Dimensions**



**Figure 2 – Installation View**



**Table 3 – Washer Part Numbers and Dimensions**

CB-1100 Series	Head Washer	O.D.		I.D.		Thickness		Tail Washer	O.D.		I.D.		Thickness	
		in	mm	in	mm	in	mm		in	mm	in	mm	in	mm
CB-1120	J-2049-62	1.25	31.8	0.40	10.2	0.125	3.2	J-2049-61	1.12	28.4	0.40	10.2	0.125	3.2
CB-1121	J-2049-64	2.00	50.8	0.52	13.2	0.125	3.2	J-2049-63	1.50	38.1	0.52	13.2	0.125	3.2
CB-1122	J-2049-65	2.25	57.2	0.52	13.2	0.125	3.2	J-2049-64	2.00	50.8	0.52	13.2	0.125	3.2
CB-1123	J-2049-68	2.88	73.2	0.66	16.8	0.125	3.2	J-2049-66	2.25	57.2	0.64	16.3	0.125	3.2
CB-1124	J-2049-70	3.50	88.9	0.64	16.3	0.190	4.8	J-2049-67	2.50	63.5	0.64	16.3	0.125	3.2
CB-1125	J-2049-71	4.25	108.0	0.80	20.3	0.190	4.8	J-2049-69	3.00	76.2	0.80	20.4	0.190	4.8

## CB-1180 Series

**Table 1 – Specifications and Dimensions**

Part Number	Maximum Axial Static Load Rating ①				Part Dimensions											
	Load		Deflection		A		B		C		D		E		F	
	lb	N	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
CB-1180-1	400	1780	0.135	3.4	2.50	63.1	0.64	16.3	1.87	47.8	3.20	81.3	2.12	53.8	1.01	25.7
CB-1180-2	700	3115	0.156	3.9	2.50	63.1	0.64	16.3	1.87	47.8	3.20	81.3	2.12	53.8	1.01	25.7

① These ratings are for general industrial applications. For on-highway, use 80% of loads shown. For off-highway, use 70% of loads shown. For installation instructions, refer to Center-Bonded Mounts, Installation Guide section.

**Table 2 – Specifications and Dimensions**

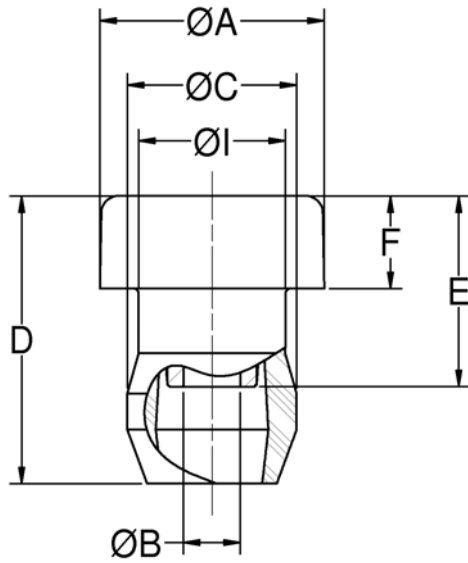
Part Number	Part Dimensions										Recommended Bolt Information*			
	H		I		S <sub>D</sub> ±0.03		R		T		Size		Grade or Class	
	in	mm	in	mm	in	mm	in	mm	in	mm	English	Metric	SAE J429	SAE J1199
CB-1180-1	0.87	22.1	1.625	41.3	1.50	38.1	0.075	1.9	0.75	19.1	5/8	M16	8	10.9
CB-1180-2	0.87	22.1	1.625	41.3	1.50	38.1	0.075	1.9	0.75	19.1	5/8	M16	8	10.9

\* For tightening torque information, refer to Tightening Torque Charts section.

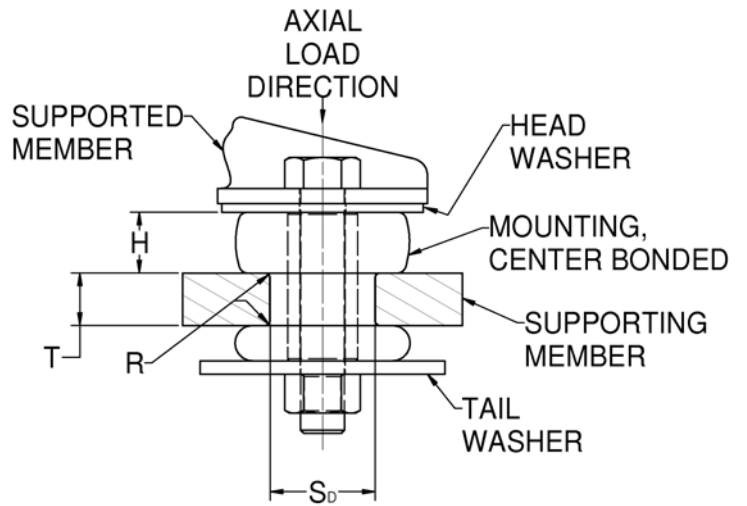
**Table 3 – Washer Part Numbers and Dimensions**

Part Number	Head Washer	O.D.		I.D.		Thickness		Tail Washer	O.D.		I.D.		Thickness	
		in	mm	in	mm	in	mm		in	mm	in	mm	in	mm
CB-1180-1	J-2049-68	2.88	73.2	0.66	16.8	0.125	3.2	J-2049-70	3.50	88.9	0.64	16.3	0.19	4.8
CB-1180-2	J-2049-68	2.88	73.2	0.66	16.8	0.125	3.2	J-2049-70	3.50	88.9	0.64	16.3	0.19	4.8

**Figure 1 – Part Dimensions**



**Figure 2 – Installation View  
(Shown Under No Load)**



## CBA Series

**Table 1 – Specifications and Dimensions**

Part Number	See Fig.	Maximum Axial Static Load Rating at Deflection ①		Part Dimensions											
		lb at in	N at mm	A ±0.015		B		C ±0.015		D ±0.02		E ±0.015		F ±0.02	
				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
CBA12-100	1	100 at 0.09	445 at 2.3	1.25	31.8	0.410	10.4	0.95	24.1	1.44	36.6	1.07	27.2	0.55	14.0
CBA12-200	1	200 at 0.09	890 at 2.3	1.25	31.8	0.410	10.4	0.95	24.1	1.44	36.6	1.07	27.2	0.55	14.0
CBA20-300	1	300 at 0.09	1334 at 2.3	2.00	50.8	0.540	13.5	1.38	35.1	2.00	50.8	1.45	36.8	0.75	19.1
CBA20-300-1	2	300 at 0.09	1334 at 2.3	2.00	50.8	0.545	13.5	1.38	35.1	2.00	50.8	1.45	36.8	0.75	19.1
CBA20-400	1	400 at 0.10	1779 at 2.5	2.00	50.8	0.540	13.5	1.38	35.1	2.00	50.8	1.45	36.8	0.75	19.1
CBA20-400-1	2	400 at 0.10	1779 at 2.5	2.00	50.8	0.545	13.5	1.38	35.1	2.00	50.8	1.45	36.8	0.75	19.1
CBA24-500	1	500 at 0.09	2224 at 2.3	2.35	59.7	0.657	16.5	1.50	38.1	2.11	53.6	1.50	38.1	0.69	17.5
CBA24-500-1	2	500 at 0.09	2224 at 2.3	2.35	59.7	0.655	16.3	1.50	38.1	2.11	53.6	1.50	38.1	0.69	17.5
CBA24-650	1	650 at 0.10	2891 at 2.5	2.35	59.7	0.657	16.5	1.50	38.1	2.11	53.6	1.50	38.1	0.69	17.5
CBA24-650-1	2	650 at 0.10	2891 at 2.5	2.35	59.7	0.655	16.3	1.50	38.1	2.11	53.6	1.50	38.1	0.69	17.5
CBA28-800	1	800 at 0.10	3559 at 2.5	2.80	71.1	0.810	20.3	1.62	41.1	2.38	60.5	1.63	41.4	0.69	17.5
CBA28-800-1	2	800 at 0.10	3559 at 2.5	2.80	71.1	0.785	19.6	1.62	41.1	2.38	60.5	1.63	41.4	0.69	17.5
CBA28-1050	1	1050 at 0.10	4671 at 2.5	2.80	71.1	0.810	20.3	1.62	41.1	2.38	60.5	1.63	41.4	0.69	17.5
CBA28-1050-1	2	1050 at 0.10	4671 at 2.5	2.80	71.1	0.785	19.6	1.62	41.1	2.38	60.5	1.63	41.4	0.69	17.5
CBA33-1200	1	1200 at 0.11	5338 at 2.8	3.30	83.8	0.810	20.3	1.62	41.1	2.50	63.5	1.94	49.3	0.88	22.4
CBA33-1200-1	2	1200 at 0.11	5338 at 2.8	3.30	83.8	0.785	19.6	1.62	41.1	2.50	63.5	1.94	49.3	0.88	22.4
CBA33-1600	1	1600 at 0.12	7117 at 3.0	3.30	83.8	0.810	20.3	1.62	41.1	2.50	63.5	1.94	49.3	0.88	22.4
CBA33-1600-1	2	1600 at 0.12	7117 at 3.0	3.30	83.8	0.785	19.6	1.62	41.1	2.50	63.5	1.94	49.3	0.88	22.4

Mounts and washers only supplied by LORD.

① These ratings are for general industrial applications. For on-highway, use 80% of loads shown. For off-highway, use 70% of loads shown.

**Table 2 – Specifications and Dimensions**

Part Number	Installation Dimensions														Metal Parts ②
	H		I		K		L		S <sub>D</sub> ±0.03		R ±0.015		T ±0.03		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
CBA12-100	0.51	13.0	1.50	38.1	1.50	38.1	—	—	0.895	22.7	0.06	1.5	0.38	9.70	LCS
CBA12-200	0.51	13.0	1.50	38.1	1.50	38.1	—	—	0.895	22.7	0.06	1.5	0.38	9.70	LCS
CBA20-300	0.69	17.5	2.38	60.5	2.25	57.2	—	—	1.25	31.8	0.06	1.5	0.50	12.7	LCS
CBA20-300-1	0.69	17.5	2.38	60.5	2.25	57.2	1.38	35.1	1.25	31.8	0.06	1.5	0.50	12.7	HSS
CBA20-400	0.69	17.5	2.38	60.5	2.25	57.2	—	—	1.25	31.8	0.06	1.5	0.50	12.7	LCS
CBA20-400-1	0.69	17.5	2.38	60.5	2.25	57.2	1.38	35.1	1.25	31.8	0.06	1.5	0.50	12.7	HSS
CBA24-500	0.62	15.7	2.75	69.9	2.50	63.5	—	—	1.38	35.1	0.06	1.5	0.62	15.7	LCS
CBA24-500-1	0.62	15.7	2.75	69.9	2.50	63.5	1.62	41.1	1.38	35.1	0.06	1.5	0.62	15.7	HSS
CBA24-650	0.62	15.7	2.75	69.9	2.50	63.5	—	—	1.38	35.1	0.06	1.5	0.62	15.7	LCS
CBA24-650-1	0.62	15.7	2.75	69.9	2.50	63.5	1.62	41.1	1.38	35.1	0.06	1.5	0.62	15.7	HSS
CBA28-800	0.63	16.0	3.25	82.6	3.00	76.2	—	—	1.50	38.1	0.06	1.5	0.75	19.1	LCS
CBA28-800-1	0.63	16.0	3.25	82.6	3.00	76.2	1.62	41.1	1.50	38.1	0.06	1.5	0.75	19.1	HSS
CBA28-1050	0.63	16.0	3.25	82.6	3.00	76.2	—	—	1.50	38.1	0.06	1.5	0.75	19.1	LCS
CBA28-1050-1	0.63	16.0	3.25	82.6	3.00	76.2	1.62	41.1	1.50	38.1	0.06	1.5	0.75	19.1	HSS
CBA33-1200	0.81	20.6	3.88	98.6	3.00	76.2	—	—	1.50	38.1	0.06	1.5	0.88	22.4	LCS
CBA33-1200-1	0.81	20.6	3.88	98.6	3.00	76.2	1.62	41.1	1.50	38.1	0.06	1.5	0.88	22.4	HSS
CBA33-1600	0.81	20.6	3.88	98.6	3.00	76.2	—	—	1.50	38.1	0.06	1.5	0.88	22.4	LCS
CBA33-1600-1	0.81	20.6	3.88	98.6	3.00	76.2	1.62	41.1	1.50	38.1	0.06	1.5	0.88	22.4	HSS

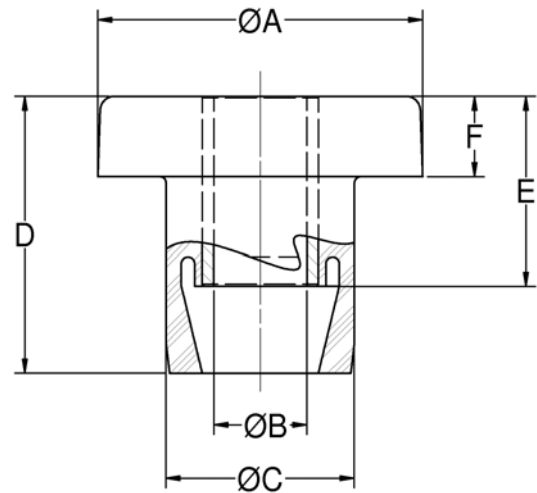
② LCS = Low Carbon Steel  
HSS = High Strength Steel

For installation instructions, refer to Center-Bonded Mounts, Installation Guide section.

**Table 3 – Specifications and Dimensions**

Part Number	Recommended Bolt Information*				Nominal Dynamic/Static Spring Rate Ratio ③
	Size		Grade or Class		
	English	Metric	SAE J429	SAE J1199	
CBA12-100	3/8	M10	2	5.8	1.08
CBA12-200	3/8	M10	2	5.8	1.22
CBA20-300	1/2	M12	2	5.8	1.15
CBA20-300-1	1/2	M12	8	10.9	1.15
CBA20-400	1/2	M12	2	5.8	1.19
CBA20-400-1	1/2	M12	8	10.9	1.19
CBA24-500	5/8	M16	2	5.8	1.15
CBA24-500-1	5/8	M16	8	10.9	1.15
CBA24-650	5/8	M16	2	5.8	1.19
CBA24-650-1	5/8	M16	8	10.9	1.19
CBA28-800	3/4	M18	2	5.8	1.15
CBA28-800-1	3/4	M18	8	10.9	1.15
CBA28-1050	3/4	M18	2	5.8	1.19
CBA28-1050-1	3/4	M18	8	10.9	1.19
CBA33-1200	3/4	M18	2	5.8	1.15
CBA33-1200-1	3/4	M18	8	10.9	1.15
CBA33-1600	3/4	M18	2	5.8	1.19
CBA33-1600-1	3/4	M18	8	10.9	1.19

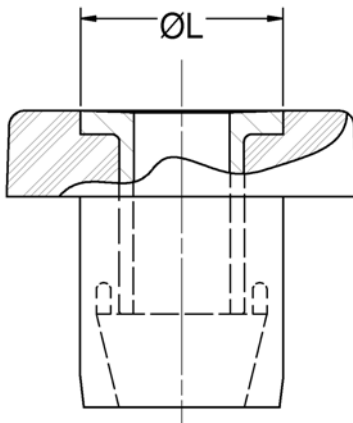
**Figure 1 – Standard Series (Uninstalled)**



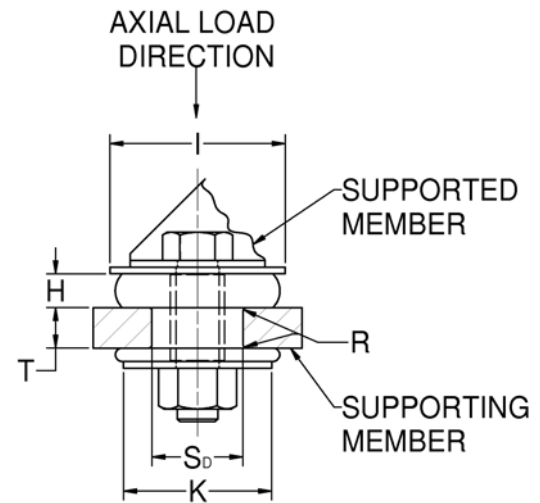
\* For tightening torque information, refer to Tightening Torque Charts section.

③ This column of figures can be used to calculate dynamic spring rate for natural frequency based on static values.  
 $(K_{DYN} = K_{ST} \times \frac{DYN}{STATIC} \text{ Ratio})$

**Figure 2 – High Bolt Torque Series (-1 Parts, Uninstalled, Flanged Inner Member)**



**Figure 3 – Installation View (Shown Under No Load)**



**Table 4 – Washer Part Numbers and Dimensions**

CBA Series	Head Washer	O.D.		I.D.		Thickness		Tail Washer	O.D.		I.D.		Thickness	
		in	mm	in	mm	in	mm		in	mm	in	mm	in	mm
CBA12	J-2049-58	1.50	38.1	0.42	10.7	0.120	3.0	J-2049-58	1.50	38.1	0.42	10.7	0.120	3.0
CBA20	J-2049-52	2.38	60.5	0.53	13.5	0.125	3.2	J-2049-65	2.25	57.2	0.52	13.2	0.125	3.2
CBA24	J-2049-53	2.75	69.9	0.64	16.3	0.125	3.2	J-2049-67	2.50	63.5	0.64	16.3	0.125	3.2
CBA28	J-2049-54	3.25	82.6	0.80	20.3	0.188	4.8	J-2049-69	3.00	76.2	0.80	20.3	0.188	4.8
CBA33	J-2049-55	3.88	98.6	0.80	20.3	0.188	4.8	J-2049-69	3.00	76.2	0.80	20.3	0.188	4.8

Washers must be ordered separately.

## CBA-50 Series

**Table 1 – Specifications and Dimensions**

Part Number ①	Maximum Axial Static Load Rating at Deflection ②		Typical Spring Rates				Metal Bracket Part Number ③	Part Dimensions									
			Axial		Radial			A		B		C				D	
	lb at in	N at mm	lb/in	N/mm	lb/in	N/mm		in	mm	in	mm	Dia. Min.		Dia. Max.		in	mm
CBA12-100-50	100 at 0.09	445 at 2.3	1110	194	1300	228	Y-30266-5-1	2.38	60.5	0.44	11.2	0.404	10.3	0.412	10.5	1.75	44.5
CBA12-200-50	200 at 0.09	890 at 2.3	2220	389	3000	525	Y-30266-5-1	2.38	60.5	0.44	11.2	0.404	10.3	0.412	10.5	1.75	44.5
CBA20-300-50	300 at 0.12	1334 at 3.0	2500	438	3500	613	Y-30266-4-1	3.75	95.2	0.50	12.7	0.404	10.3	0.412	10.5	2.25	57.2
CBA20-400-50	400 at 0.12	1780 at 3.0	3300	578	4300	753	Y-30266-4-1	3.75	95.2	0.50	12.7	0.404	10.3	0.412	10.5	2.25	57.2
CBA24-500-50	500 at 0.12	2224 at 3.0	4200	736	5300	927	Y-30266-3-1	4.25	108.0	0.50	12.7	0.404	10.3	0.412	10.5	2.50	63.5
CBA24-650-50	650 at 0.12	2891 at 3.0	5400	945	7500	1313	Y-30266-3-1	4.25	108.0	0.50	12.7	0.404	10.3	0.412	10.5	2.50	63.5

All metal parts are made of low carbon steel.

① Mounts and washers only supplied by LORD.

② **These ratings are for general industrial applications. For on-highway, use 80% of loads shown. For off-highway, use 70% of loads shown.**

③ If you require a high bolt torque series or any other special part, use metal bracket part number and the CBA part number found in the Center-Bonded Mounts, CBA Series Specifications and Dimensions tables or contact LORD Corporation for assistance.

**Table 2 – Specifications and Dimensions**

Part Number ①	Part Dimensions																												
	E						F		G		H		I		J		K		M Min. ④		N		S <sub>D</sub> ±0.03		T				
	I.D. Min.		I.D. Max.		O.D.		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
CBA12-100-50	0.397	10.1	0.410	10.4	0.50	12.7	2.25	57.2	0.61	15.5	0.06	1.5	1.25	31.8	1.07	27.2	1.25	31.8	1.50	38.1	0.57	14.5	1.38	35.1	0.19	4.8	0.25	6.40	
CBA12-200-50	0.397	10.1	0.410	10.4	0.50	12.7	2.25	57.2	0.61	15.5	0.06	1.5	1.25	31.8	1.07	27.2	1.25	31.8	1.50	38.1	0.57	14.5	1.38	35.1	0.19	4.8	0.25	6.40	
CBA20-300-50	0.525	13.3	0.540	13.7	0.75	19.0	3.00	76.2	0.85	21.6	0.10	2.5	2.00	50.8	1.45	36.8	1.92	48.8	2.38	60.5	0.79	20.1	2.00	50.8	0.25	6.4	0.38	9.70	
CBA20-400-50	0.525	13.3	0.540	13.7	0.75	19.0	3.00	76.2	0.85	21.6	0.10	2.5	2.00	50.8	1.45	36.8	1.92	48.8	2.38	60.5	0.79	20.1	2.00	50.8	0.25	6.4	0.38	9.70	
CBA24-500-50	0.639	16.2	0.657	16.7	0.88	22.3	3.50	88.9	0.82	20.8	0.13	3.3	2.35	59.7	1.50	38.1	2.19	55.6	2.75	69.9	0.76	19.3	2.25	57.2	0.38	9.7	0.50	12.7	
CBA24-650-50	0.639	16.2	0.657	16.7	0.88	22.3	3.50	88.9	0.82	20.8	0.13	3.3	2.35	59.7	1.50	38.1	2.19	55.6	2.75	69.9	0.76	19.3	2.25	57.2	0.38	9.7	0.50	12.7	

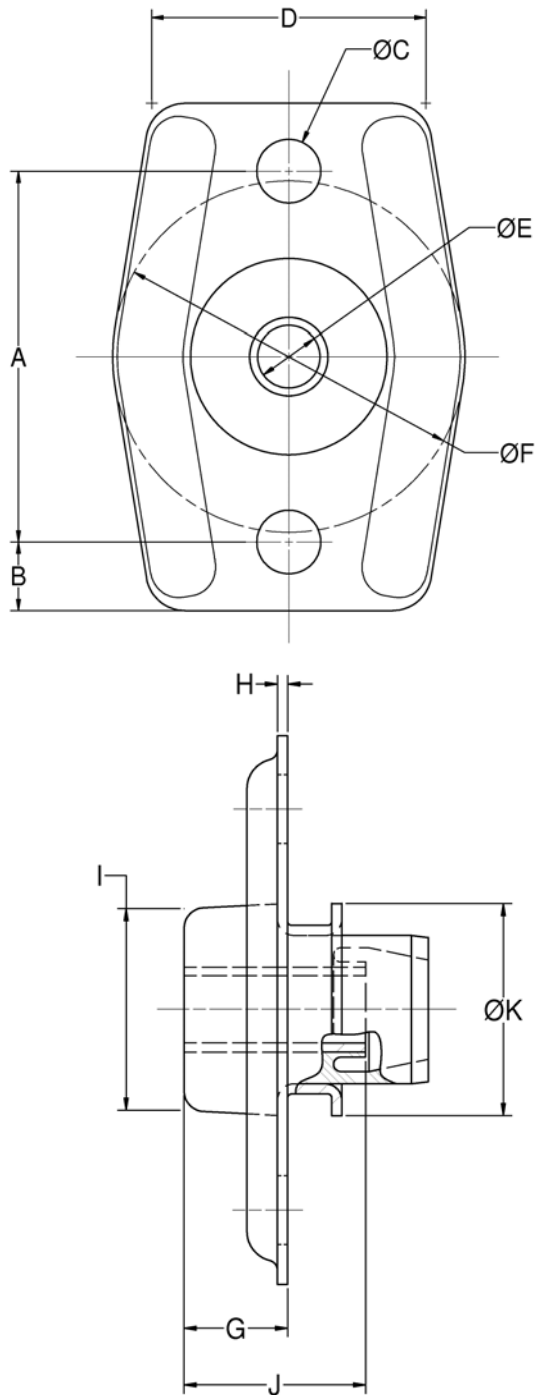
④ Bracket must provide support in excess of M Dia. Min., otherwise a washer is required. Washer must be ordered separately.

⑤ Minimum supporting member thickness for high rebound load capacities.

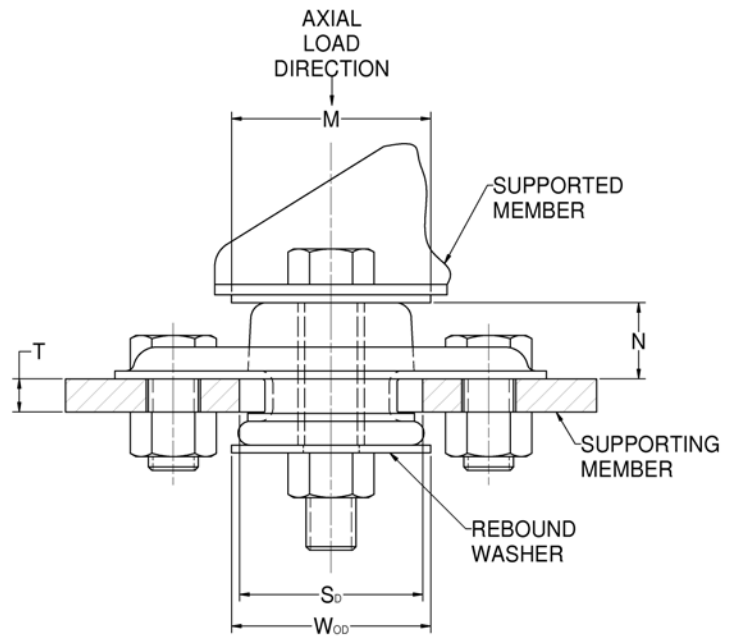
⑥ Maximum supporting member thickness for all applications.



**Figure 1 – Part Dimensions**



**Figure 2 – Installation View (Shown Under No Load)**



**Table 3 – Washer Part Numbers and Dimensions**

CBA-50 Series	Washer Part Number	WOD		I.D.		Thickness	
		in	mm	in	mm	in	mm
CBA12	J-2049-58	1.50	38.1	0.42	10.7	0.120	3.0
CBA20	J-2049-52	2.38	60.5	0.53	13.5	0.125	3.2
CBA24	J-2049-53	2.75	69.9	0.64	16.3	0.125	3.2

## STA Series

**Table 1 – Specifications and Dimensions**

Part Number ①	Max. Axial Static Load Rating ②		Axial Static Spring Rate		Radial Static Spring Rate		Part Dimensions									
	lb	N	lb/in	N/mm	lb/in	N/mm	A		B		C		D		E	
							in	mm	in	mm	in	mm	in	mm	in	mm
STA30-200-1	200	890	2800	490	3,000	525	3.12	79.4	3.00	76.2	0.77	19.6	1.25	31.8	0.81	20.6
STA30-300-1	300	1330	3700	645	4,500	788	3.12	79.4	3.00	76.2	0.77	19.6	1.25	31.8	0.81	20.6
STA30-400-1	400	1780	5000	870	8,000	1,401	3.12	79.4	3.00	76.2	0.77	19.6	1.25	31.8	0.81	20.6
STA36-500-1	500	2220	4300	750	12,500	2,189	3.75	95.3	3.62	92.0	1.02	25.9	1.50	38.1	1.05	26.7
STA36-600-1	600	2670	6100	1060	15,000	2,627	3.75	95.3	3.62	92.0	1.02	25.9	1.50	38.1	1.05	26.7
STA36-700-1	700	3110	7000	1220	20,000	3,503	3.75	95.3	3.62	92.0	1.02	25.9	1.50	38.1	1.05	26.7

① Mount assembly only supplied by LORD.

**Mounting:** Natural Rubber, non oil-resistant, low carbon steel, corrosion-resistant coated.

② Ratings are the same for on-highway, off-highway and general industrial applications.

**Tolerances:** 0.xx = ± 0.03 in (± 0.762 mm)  
0.xxx = ± 0.015 in (± 0.381 mm)

**Table 2 – Specifications and Dimensions**

Part Number	Part Dimensions																	
	F		G		H		J		K		L		SD ±0.03		R		T	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
STA30-200-1	0.63	16.0	1.56	39.6	2.25	57.2	2.34	59.4	2.345	59.4	0.69	17.3	2.38	60.5	3.25	82.6	0.62	15.7
STA30-300-1	0.63	16.0	1.56	39.6	2.25	57.2	2.34	59.4	2.345	59.4	0.69	17.3	2.38	60.5	3.25	82.6	0.62	15.7
STA30-400-1	0.63	16.0	1.56	39.6	2.25	57.2	2.34	59.4	2.345	59.4	0.69	17.3	2.38	60.5	3.25	82.6	0.62	15.7
STA36-500-1	0.72	18.3	2.03	51.6	2.80	71.1	2.47	62.7	2.470	62.7	0.96	24.4	2.50	63.5	4.00	101.6	0.75	19.1
STA36-600-1	0.72	18.3	2.03	51.6	2.80	71.1	2.47	62.7	2.470	62.7	0.96	24.4	2.50	63.5	4.00	101.6	0.75	19.1
STA36-700-1	0.72	18.3	2.03	51.6	2.80	71.1	2.47	62.7	2.470	62.7	0.96	24.4	2.50	63.5	4.00	101.6	0.75	19.1

**Table 3 – Dimensions and Washer Part Numbers**

Part Number	Recommended Bolt Information*				Rebound Washer Part Number
	Size		Grade or Class		
	English	Metric	SAE J429	SAE J1199	
STA30-200-1	3/4	M18	8	10.9	J-2049-54
STA30-300-1	3/4	M18	8	10.9	J-2049-54
STA30-400-1	3/4	M18	8	10.9	J-2049-54
STA36-500-1	1	M24	8	10.9	J-2049-76
STA36-600-1	1	M24	8	10.9	J-2049-76
STA36-700-1	1	M24	8	10.9	J-2049-76

\* For tightening torque information, refer to Tightening Torque Charts section.

③ **Rebound Washer.** Steel, zinc plated.  
Mounts are designed to be loaded in the axial direction only.  
If bracket provides support equal to top rebound washer, Diameter A top rebound washer is not required.

④ Bottom rebound washer is required for all installations; see tabulation for part number.

## STA30-200-1 to STA30-400-1

Figure 1 – Part Dimensions

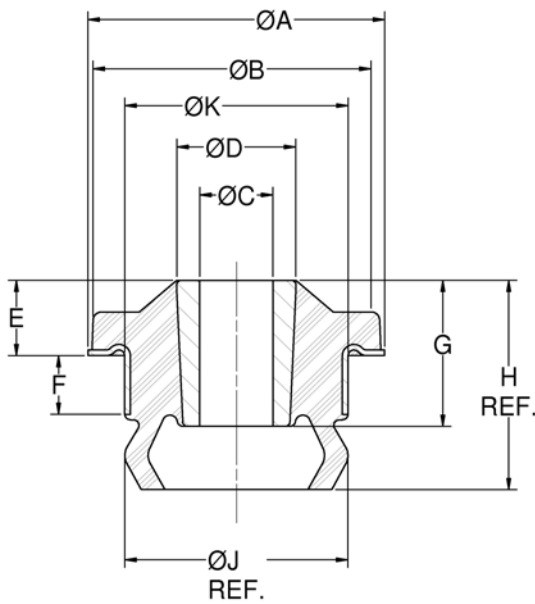
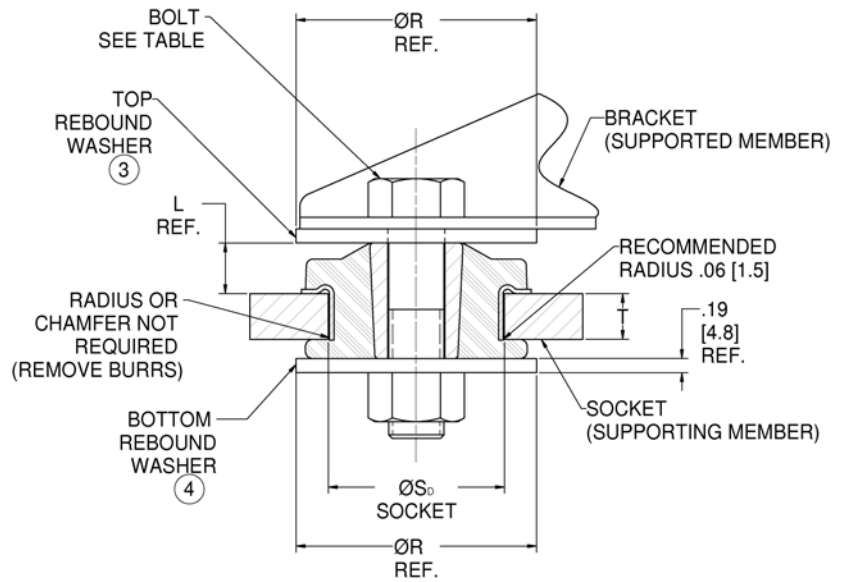


Figure 2 – Installation View (Shown Under No Load)



## STA36-500-1 to STA36-700-1

Figure 3 – Part Dimensions

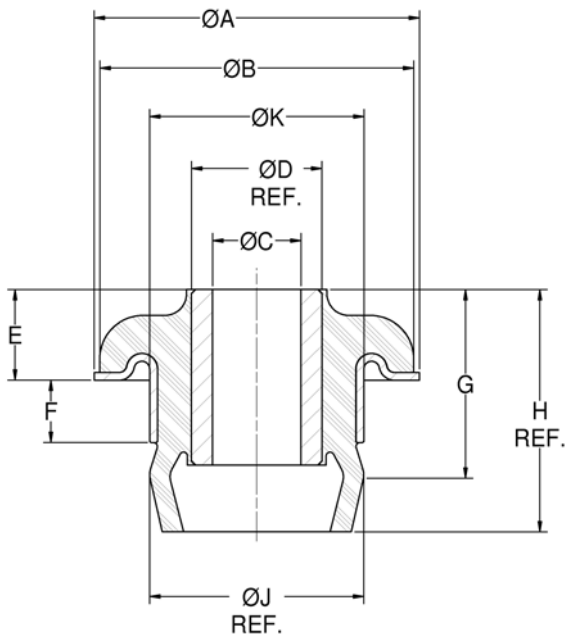
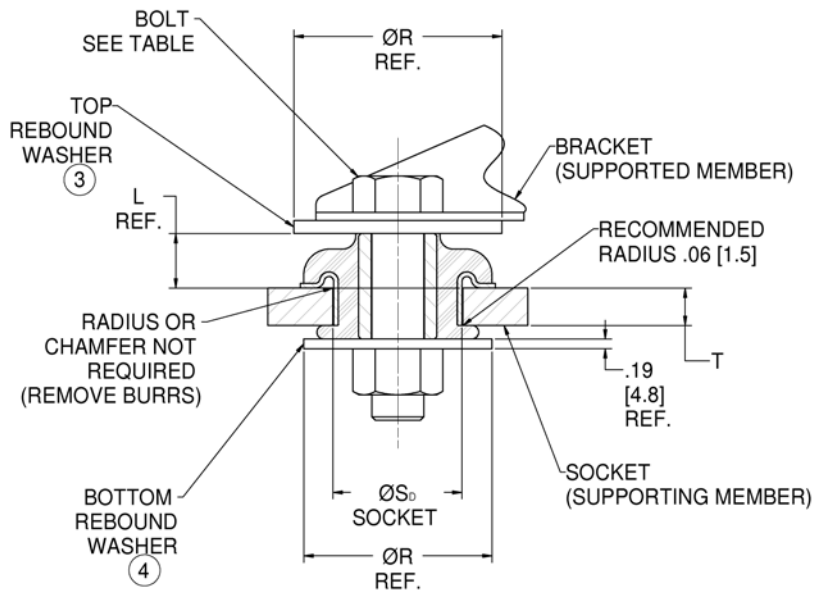


Figure 4 – Installation View (Shown Under No Load)



## Safetied Tubeform Series

**Table 1 – Specifications and Dimensions**

Part Number	Elastomer ①	Axial Static Load				Radial Static Load				Axial Static Deflection at Nominal Load		Part Dimensions			
		Nominal		Maximum		Nominal		Maximum				A		B	
		lb	N	lb	N	lb	N	lb	N	in	mm	in	mm	in	mm
J-20595-1	NR	320	1423	480	2135	160	712	320	1423	0.10	2.5	5.25	133.4	4.25	108.0
J-20595-5	NR	680	3025	1020	4537	340	1512	680	3025						
J-20595-12	OR	380	1690	570	2535	190	845	380	1690	0.10	2.5	5.25	133.4	4.25	108.0
J-20595-13	OR	460	2046	690	3069	230	1023	460	2046						
J-18748-23	NR	680	3025	1020	4537	340	1512	680	3025	0.10	2.5	6.25	158.8	5.00	127.0
J-18748-27	OR	560	2490	840	3736	280	1245	560	2490						
J-18748-28	OR	680	3025	1020	4537	340	1512	680	3025	0.10	2.5	6.25	158.8	5.00	127.0
J-18748-29	OR	830	3692	1245	5538	415	1846	830	3692						
J-18748-30	OR	1000	4448	1500	6672	500	2224	1000	4448						
J-18787-13	NR	1210	5382	1815	8073	605	2691	1210	5382	0.10	2.5	7.50	190.5	6.00	152.4
J-18787-15	NR	1780	7918	2700	12,010	890	3959	1780	7918						
J-18787-16	OR	830	3692	1245	5538	415	1846	830	3692	0.10	2.5	7.50	190.5	6.00	152.4
J-18787-19	OR	1470	6539	2205	9808	735	3269	1470	6539						
J-18787-20	OR	1780	7918	2700	12,010	890	3959	1780	7918						

Mounts and washers only supplied by LORD.

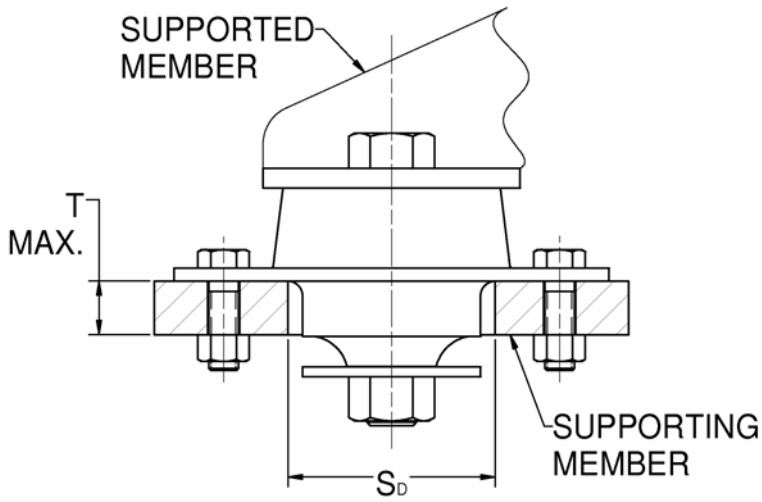
① NR = Natural Rubber  
OR = Oil-Resistant Elastomer - Neoprene

**Table 2 – Specifications and Dimensions**

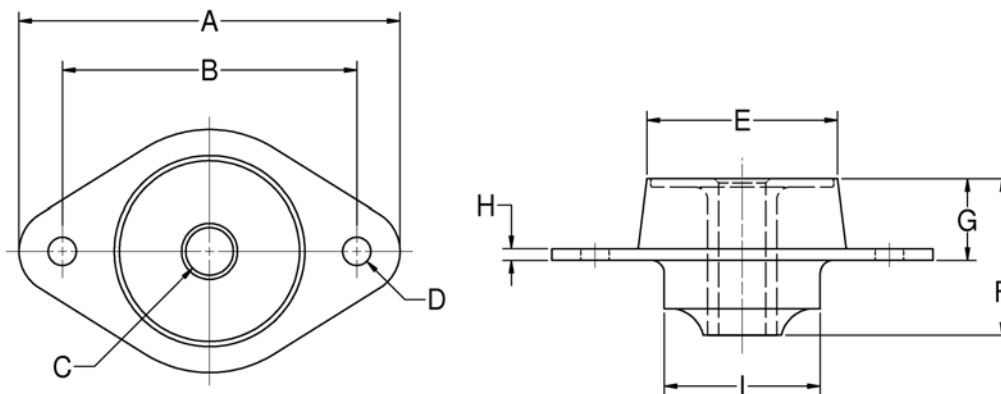
Part Number	Part Dimensions																Recommended Bolt Information*					
	C		D		E		F		G		H		I		S <sub>D</sub>		T		Size		Grade or Class	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	English	Metric	SAE J429	SAE J1199
J-20595-1	0.687	17.4	0.406	10.3	2.75	69.9	2.25	57.2	1.18	30.0	0.125	3.2	2.25	57.2	2.62	66.5	0.69	17.5	5/8	M16	8	10.9
J-20595-5																						
J-20595-12	0.687	17.4	0.406	10.3	2.75	69.9	2.25	57.2	1.18	30.0	0.125	3.2	2.25	57.2	2.62	66.5	0.69	17.5	5/8	M16	8	10.9
J-20595-13																						
J-18748-23	0.778	19.8	0.531	13.5	3.38	85.9	3.00	76.2	1.38	35.1	0.190	4.8	2.50	63.6	2.88	73.2	1.25	31.8	3/4	M18	8	10.9
J-18748-27	0.778	19.8	0.531	13.5	3.38	85.9	3.00	76.2	1.38	35.1	0.190	4.8	2.50	63.6	2.88	73.2	1.25	31.8	3/4	M18	8	10.9
J-18748-28																						
J-18748-29																						
J-18748-30																						
J-18787-13	1.065	27.1	0.656	16.7	4.38	111.3	4.00	101.6	1.50	38.1	0.250	6.4	3.30	83.8	3.75	95.3	2.00	50.8	1	M24	8	10.9
J-18787-15																						
J-18787-16	1.065	27.1	0.656	16.7	4.38	111.3	4.00	101.6	1.50	38.1	0.250	6.4	3.30	83.8	3.75	95.3	2.00	50.8	1	M24	8	10.9
J-18787-19																						
J-18787-20																						

\* For tightening torque information, refer to Tightening Torque Charts section.

**Figure 1 – Part Dimensions**



**Figure 2 – Installation View  
(Shown Under No Load)**



**Table 3 – Washer Part Numbers and Dimensions**

Series Number	Part Dimensions					
	O.D.		I.D.		Thickness	
	in	mm	in	mm	in	mm
J-20595	2.25	57.2	0.64	16.3	0.125	3.2
J-18748	2.50	63.5	0.76	19.3	0.188	4.8
J-18787	3.25	82.6	1.01	25.7	0.250	6.4

Mounts and washers only supplied by LORD.

## Installation Guide

### Specifications

**Materials:** The elastomers are high quality natural rubber which meet LORD specifications (available upon request).

The elastomer-to-metal bonds are stronger than the elastomer.

**Environmental:** For applications in severe oil environments, contact LORD. Based on extensive experience, center-bonded mounts have been designed to operate in normal fluid, temperature and other environmental conditions such as found in the engine compartment of on- and off-highway applications.

**Testing/Quality Control:** Drawings of each part specify the load deflection tests which are performed to assure consistency of spring rate characteristics.

**Testing/Performance:** Extensive laboratory fatigue testing has been performed under simulated service conditions.

### Installation

Installation is simple, consisting of four steps:

1. Both mount and socket should be lightly lubricated with rubber lubricant or water. A special rubber lubricant, P-80 Emulsion, is available from International Products Corporation; P.O. Box 70; Burlington, NJ 08016-0070; Phone: (609) 386-8770; Fax: (609) 386-8438.
2. Insert part in socket and rotate part by hand while applying axial force until partially positioned. Insert assembly driver in the metal inner member of the mount. Care should be taken that the driving device does not overhang the outside diameter of the inner member in order to prevent damage to the elastomer.
3. Apply pressure to the driving device to seat the mount in its socket.
4. Assemble the other elements of the support, insert the mount bolt and tighten to the required torque. When the nut is tightened against the snubbing washer, the rebound shoulder is formed automatically. The resulting pre-compression assures optimum performance.

Figure 1

