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# REF: Wheels, Brakes & Tires

## Rim Construction

1. The aluminum alloy cast wheel has been used with both tube and tubeless type tires.
  - Tube type aluminum wheels are no longer in production by the MoCo.
2. The disc type wheel has been manufactured as either:
  - Two assembled halves, bolted and riveted together (no longer in production).
  - Cast as one piece.
3. The steel alloy rim with chrome finish used with laced (or spoke) type rims.
4. The extruded aluminum rim was used on 18" and 19" spoked rims on XL and FX models until 1979.

## Rim Profile

The rim profile is the configuration or the shape of the inside of the rim along with the width and diameter stamping.

The different profiles are generally marked on the outside of the rim

- The 3.00" D:  
Used on HD wheels since the mid 1960's and on 16" cast wheels since the mid 1970's.
- TL or MT:  
Used on 19" cast wheels and some 16" cast wheels.  
The tire and Wheel association renamed the TL to the MT around 1985 but the change was in name only.  
So a TL is the same as a MT.
- TLA:  
Used on 19" and 21" laced wheels.
- CM:  
Used on 18" and 19" laced wheels on XLs thru 1978 and on FX models thru 1979 (now obsolete).  
If this type rim is damaged, the dealership's first reponce is to replace the rim with a current production rim.

# Axle/Bearing Spacers - Miscellaneous Info

Outer Spacer Widths - From 'fergerburger' at this XLForum Thread:

<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/ironhead-sportster-motorcycle-talk-1957-1985/157170-axle-spacers-chart?t=1681432>

Outer Spacers For 3/4" Axles				Pic(s)
P/N	Year Model	Description	Width	
43548-74	1974-1977 XLH/XLCH	Wheel (outside) brg stepped spacer	.300"	<a href="#">Pic 1)</a>
43358-83A	1985-1999 Sportster	Flat bearing spacer	.380"	
43548-73	1973 XLH/XLCH	Stepped spacer	.440"	<a href="#">Pic 2)</a>
43488-77	1973-1978 XL/XLCH	Stepped spacer	.465"	<a href="#">Pic 3)</a>
41607-83	?		.506"	
41594-73	?		.653"	
43654-86A	1988-1999	Wheel (outside) brg spacer 1986-up replacement (1988)	.750"	<a href="#">Pic 4)</a>
43617-95	1995-1999 Sportster	Flat bearing spacer	.930"	
43657-89	?		1.00"	<a href="#">Pic 5)</a>
41591-81	?		1.165"	
40915-94	?		1.245"	
40910-84A	?		1.250"	
43683-97	?		1.340"	
43674-95	?		1.420"	
For 1" Axles				
Width	P/N			
.470"	43654-00			
.515"	43617-00			
.887"	40910-00			
.986"	43683-00			
1.880"	41595-00			
Preston Cycle Products - Chrome Axle Spacers <sup>6)</sup>				
HD P/N	ID	Length	PCP#	
41591-81	0.710	1.265	43016	
40915-94	0.720	1.253	43003	
43657-89	0.725	1.030	43018	
43674-95	0.725	1.412	43004	
43683-97	0.730	1.350	43005	
41607-83	0.735	0.510	43014	

43648-86	0.735	1.370	43017
40910-00	0.740	0.900	43019
43683-00	0.740	0.990	43021
41591-90	0.740	1.435	43006
41595-86	0.745	0.123	43013
47517-58	0.745	0.380	43015
41594-73	0.745	0.655	43010
41592-79	0.745	1.210	43012
43358-83A	0.750	0.370	43009
43654-00	0.750	0.470	43022
43617-00	0.750	0.520	43023
43654-86A	0.750	0.750	43007
41595-73	0.750	0.830	43011
43617-95	0.750	0.930	43002
40910-84A	0.750	1.255	43008
41595-00	0.750	1.980	43020
43613-00	0.755	3.040	43026*
43608-00	0.755	4.810	43025*
43517-00	1.000	4.810	43024*

\* Hub Spacers - Not Chromed

ColonyMachine.com<sup>7)</sup>

HD Equip#	Axle	OD	ID	Length/Width
43358-08	25mm	1.470	25mm	.317
43522-08	25mm	1.480	25mm	.648

## 1979 Front Wheel Parts - All Models

- Brake disc installation screws x (10) - (3680) - 5/16"-18 x 7/8" socket head cap bolts<sup>8)</sup>
- Wheel bearings (2) roller type (9052)<sup>9)</sup>
- Spacer (1) (inside) between the bearings<sup>10)</sup>
  - 2.564" violet (43623-78)
  - 2.550 pink (43624-78)
  - 2.536 gold (43625-78)
- Spacer (1) (outside) left bearing (43488-77)<sup>11)</sup>
- Hub seals (2) - (47519-72)<sup>12)</sup>
- Axle bolt 3/4" shank with 5/8"x 18 threads (43883-77)<sup>13)</sup>
  - Washer 5/8" x 1 5/16" x 3/32" (6653)
  - Lock washer 5/8" (7022)
  - Nut 5/8" x 18 (10) (7813) - 15/16" hex head
- Wheel weight 1/2 oz (95590-77)
- Wheel weight 1 oz (95591-77)

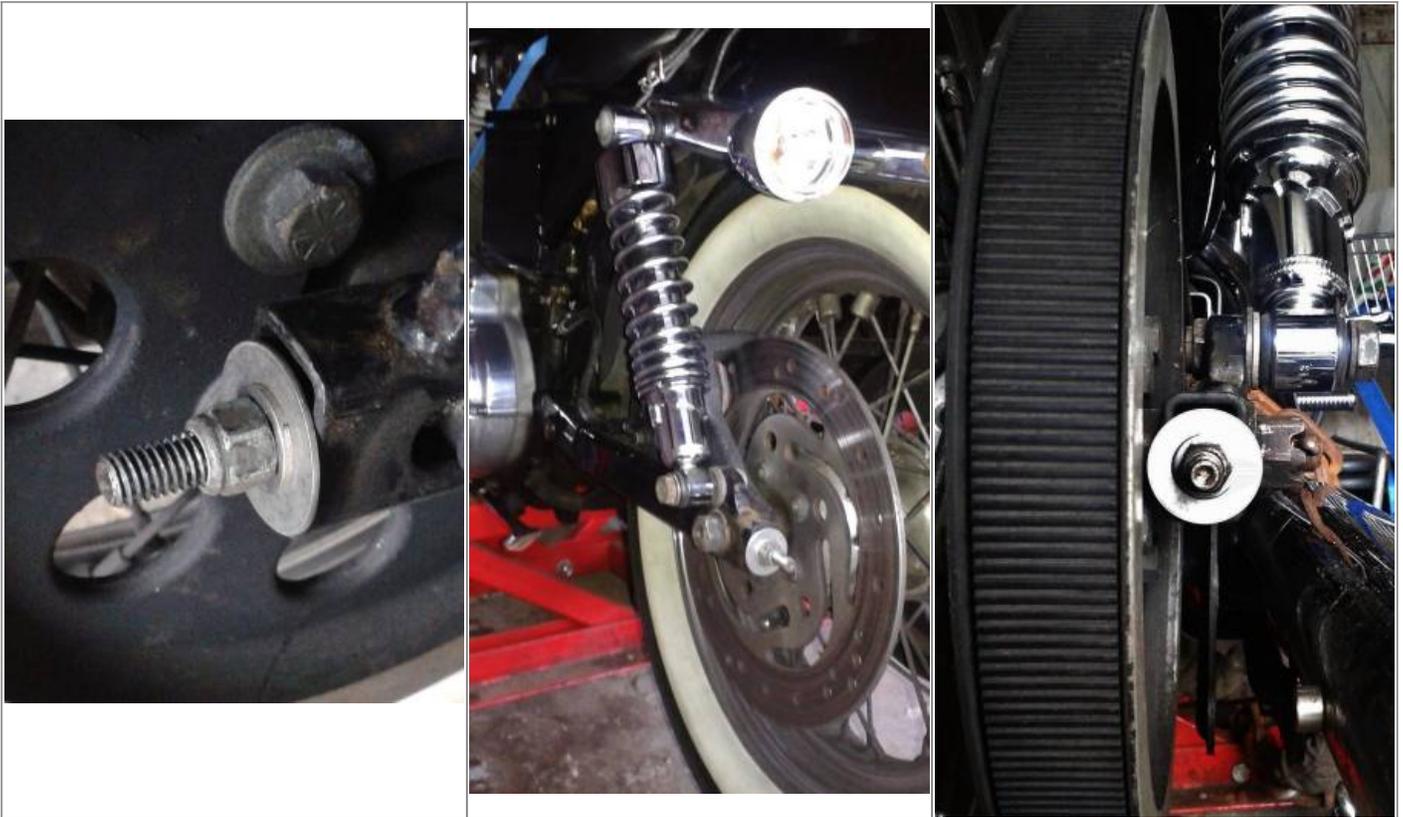
- Brake rotor <sup>14)</sup>
  - Early '79 XL, XLCH (2) (44137-77)
  - Late '79 XL, XLCH, XLS(2) (44137-79)

## 1979 Rear Wheel Parts - All Models

- Sprocket to wheel mounting bolts (5) - (3769) 7/16" x 14 x 1-1/2" with (7039) 7/16" lock-washers.
- Rear sprocket:
  - (41470-73A) Shot blast and chrome.
  - (41470-78) Polish and chrome.
- Inner retaining ring (2) - (11027)
- Bearing spacer washer (2) - (43559-73)
- Bearing spacer (outer right, 1-1/2") (41203-79)
- Bearing seal (to hub)(2) - (47519-72)
- Roller bearing (2) - (9052)
- Bearing spacer (outer left, 1") (41202-79)
- Disc brake (41791-79)
- Disc brake screw (5) - (43567-79)
- Axle bolt 3/4" shank threaded for 5/8" on the end with, (6655) 5/8" x 1-1/2" x 1/8" washer, (7022) 5/8" lock-washer and (7986) 5/16" x 18 x 1-1/2 hex head nut.
- Wheel weight 1/2 oz (95590-77)
- Wheel weight 1 oz (95591-77)

## Homemade Axle Adjuster End Plate

If you break an adjuster end plate while your out riding, here is quick fix that might help get you home. Click on a pic to enlarge:



One large fender washer with a smaller one in front to keep the large one from bending.<sup>15)</sup>

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1)  
photos courtesy of Ebay seller, Sum-body's Harley Parts, [Link to Ebay Store](#)

2)  
photo courtesy of Ebay seller, jrsvintageharley1990. [Link to Ebay Store](#)

3)  
photos courtesy of Ebay seller, Robison Motorcycles [Link to Ebay Store](#)

4)  
photo used with permission

5)  
photos courtesy of Ebay seller, 57harleyrider. [Link to Ebay Store](#)

6)  
<http://www.prestoncycle.com/ImageRepository/2015%20CA%20Web%20Catalogue/13A-CA%20Tires%20and%20Wheels.pdf>

7)  
<http://www.colonymachine.com/ColonyCatalog2018.pdf>

8) 9) 10) 11) 12) 13) 14)  
1979 Harley Davidson XLH/XLCH/XLS-1000 Parts Catalog

15)  
photos by welshturk of the XLFORUM  
<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/frame-mount-evo-sportster-talk-1986-2003-models/180059-homemade-axle-aduster-end-plate?t=1935064&highlight=axle>

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