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EVO: Engine Mechanicals

Rocker Box

Sub Documents

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Rocker Box Part Numbers

1986-Up Sportster Rocker Box Part Numbers						
(Note: an asterisk (*) next to a number indicates that part number is an updated version and not the original part number)						
Year Model	Lower Box Part#	Lower Box Casting#	Middle Spacer Part#	Middle Spacer Casting#	Upper Cover Part#	Upper Cover Casting#
1986-1988 All	17532-86 *17532-86A	17554-86 *17555-86A	17533-86 *17533-86B	17555-86 *17580-95	17501-86 *17501-86A	17556-86 *17556-86A
	Notes: 17532-85 lower box does not have oval shaped holes on the pushrod side. (crankcase air escape route to heads) 17554-86 middle spacer doesn't have provisions for head breather umbrellas. None of this is needed since 86-90 models breath through the cam cover. But it's important to note that these parts can only be used on 86-90 models.					
1989 All	17532-86A	17554-86A	17533-86A	17555-86A	17501-86A	17556-86A
	Notes: On L89 lower boxes, Click Here to view TSB M-984 regarding sealing area around middle spacer.					
1990 All	17532-86A	17554-86A	17533-86B	17580-95	17501-86A	17556-86A
	Notes: Polished set.					
1991 All	17532-86A *17532-86E	17554-86A	17533-89 *17533-90A		17501-86A *17501-86B	17556-86A
	Notes:					

1992-1994 All	17532-86A *17532-86E	17554-86A	17533-90 *17533-90A	17555-90 *17580-95	17501-86A *17501-86B	17556-86A *17581-95
Notes:	Polished set.					
1995-2003 All except 883R, 1200C, 1200S)	17532-86B *17532-86E	17579-95	17533-90A	17580-95	17501-86B	17581-95
Notes:	Polished set.					
1996-2003 1200C	17537-96 *17537-96C	17579-95 *17579-95C	17538-96	17580-95	17551-96	17581-95
Notes:	Chrome set.					
1998-2003 1200S	17614-98 *17614-98C	17579-95 *17579-95C	17533-90A	17580-95	17527-98	17581-95
Notes:	Silver powder coated set.					
2002-2003 883R	17532-86B *17532-86E	17579-95	17535-02		17501-86B	
Notes:	Polished set.					
2004-2006 883, 883C, 883L	17532-86C *17532-86E	17579-95B		N/A	17501-04	17581-04
Notes:	Polished set.					
2004-2006 1200C	17537-96A *17537-96C	17579-95B *17579-95C		N/A	17551-04	17581-04
Notes:	Chrome set. 17537-96A and 17537-96B lower boxes have slots in the gasket channel on the valve side of the box. The slots can cause gasket leaks and lower box ..537-96C (no slots) replaced them both. Click Here to view TSB M-1168A in the Sportsterpedia.					
2004-2005 883R, 1200R	17614-98A *17614-98B *17614-98C	17579-95A *17579-95B *17579-95C		N/A	17527-04	
Notes:	Silver powder coated set.					
2006 883R	17614-98A *17614-98B *17614-98C	17579-95A *17579-95B 17579-95C		N/A	17655-05	
Notes:	Silver powder coated bottom, black powder coated top.					
2006 1200R	17645-06 *17645-06A			N/A	17655-05	
Notes:	Black powder coated set.					
2007-2009 883, 883C, 883L, 1200N	17532-07	17579-07		N/A	17501-04	17581-04
Notes:	Polished set.					
2007-2009 1200C, 1200L, XL50	17537-07	17579-07		N/A	17551-04	
Notes:	Chrome set.					

2007-2009 883R, 883N	17614-07	17579-07	N/A	17655-05	
Notes: Silver powder coated bottom, black powder coated top.					
2007-2009 1200R	17645-07 *17645-07A		N/A	17655-05	
Notes: Black powder coated set. -07A is wrinkle black powder coat.					
2009 XR1200	17590-08		N/A	17585-08	
Notes: Silver powder coated set.					
2010-2016 883C, 883L, 1200N, 1200X	17532-07A	17579-07A	N/A	17501-04	17581-04
Notes: Polished set.					
2010-2016 1200C, 1200L, 1200CP, 1200V, 1200T	17537-07A	17579-07A	N/A	17551-04	
Notes: Chrome set.					
2010-2014 883R, 883N, 1200CP, 1200CA, 1200CB	17614-07A		N/A	17655-05	17581-04
Notes: Silver powder coated bottom, black powder coated top.					
2010 XR1200	17590-08A		N/A	17585-08	
Notes: Silver powder coated set.					
2010-2013 XR1200X	17591-10		N/A	17615-10	
Notes: Black set.					
2015-2016 883R, 883NN, 1200CP, 1200CA, 1200CB	17598-07A		N/A	17655-05	
Notes: Silver powder coated bottom, black powder coated top.					

Rocker Box Gaskets

[Click Here](#) to reference breather valves/installation/sealing in the Sportsterpedia.

Below is a list of factory gaskets used on Sportster rocker boxes.

Original part numbers are listed first with known superseded part numbers below the original ones.

Pics of the different part numbers are listed to the right in the chart. Click on the link to open a picture of the part.

While a complete updated list is difficult to maintain, this list may help find updated as well as NOS gaskets.

Check the notes section for particulars as gaskets have changed over the years.

Sportster Rocker Box Gaskets				
Year Model	Position	Part#	Notes	Pics
1986-1990	Upper (cover gasket)	17354-86 17354-86A	-86 - cork gaskets replaced in 1989 by -86A. -86A - rubber gaskets.	-86 ¹⁾ -86A ²⁾
	Lower (middle section)	17353-86 17353-86A	-86 - cork gaskets replaced in 1989 by -86A. -86A - rubber gaskets.	-86 ³⁾ -86A ⁴⁾
	Inner (bottom section)	17358-84 17358-84A	Small rectangle gasket on top of bottom section. -84 - cork gaskets replaced in 1989 by -84A. -84A - rubber gaskets.	-84 ⁵⁾
	Head (bottom section)	(L) 16779-84A (R) 16778-84	Beaded gaskets between lower section and heads.	-84 ⁶⁾
	Cover screw washer	6114 63858-49	Washer seals against air intake or exhaust. 6114 - Reusable copper, replaced by fiber (1987) -49 - Fiber washer, reusable unless breaks or erodes.	6114 ⁷⁾ -49 ⁸⁾

1991-2003	Upper (cover gasket)	17354-89		-89 ⁹⁾
	Lower (middle section)	17353-89 17353-89A 17353-89B 17353-89C	-89 is black, has round breather holes -A, -B, -C gaskets redesigned several times for 04-06 models. Original -89 Ok to use on 91-03 models.	-89 ¹⁰⁾ -89C ¹¹⁾
	Inner (bottom section)	17358-84A	Small rectangle gasket on top of bottom section.	
	Head (bottom section)	(L) 16779-84A, (R) 16778-84A	Gasket between lower box and heads.	
	Cover screw washer	63858-49	Fiber washer seals against air intake. Reusable unless breaks or erodes. Copper washer (6114) Ok to use as well.	-49 ¹²⁾
	Umbrella valve	26856-89	Not a gasket but rather a breather valve. Good maintenance to replace when cover is off.	See Breather page
	Full gasket kit	17036-91	Includes all original gaskets above.	

2004-2006	Lower (cover gasket)	17353-89A 17353-89B 17353-89C	Cover gasket (includes cutouts for breather valve). -89A has slots and locating tabs over breather holes. The edges are also rounded. -89B (2-15-05) has slots but no locating tabs. It's black and the edges are cut square. ¹³⁾ Only use -89C gasket. No breather seal required. It's brown with slots and locating tabs. See TT#253 .	-89C ¹⁴⁾
	Inner (bottom section)	17358-84A	Small rectangle gasket on top of bottom section.	
	Head (bottom section)	16800-84	One piece gasket between lower box and head.	
	Breather valves	(F) 26010-04 (R) 26011-04	Directional and cannot be installed backwards.	See Breather page

2007-Present	Upper (cover gasket)	17362-07 17362-07B 17362-07C	Does not include cutouts for the breather valve. 17393-07 breather seal required. -07, thin orange rubber. -07A, thin orange crush dimpled rubber. -07B, thin black rubber. -07C, thin crush dimpled black rubber.	
	Inner (bottom section)	17695-07 17695-07A 17695-07B 17695-07C	-07 thin orange rubber, top of bottom section. -07A, orange rubber with crush dimples. -07B, thin black rubber, -07C, thin black rubber with crush dimples.	-07A ¹⁵⁾ -07B ¹⁶⁾ -07C ¹⁷⁾
	Head (bottom section)	16800-84A	One piece gasket between lower box and head.	
	Breather valves (plastic units)	(F) 26012-07	Not a gasket but rather a breather valve. Good maintenance to replace when cover is off. Directional and cannot be installed backwards. Same breather units as 04-06, seal included.	See Breather page
		(R) 26020-07		
Breather valve seal	17393-07	Required to seal the breather valve into their holes in the lower rocker box section.	-07 ¹⁸⁾	

Pushrods

Pushrod lean angle on 91-up engines. The lifters are square to the lifter bore but they're not quite square to the rocker arm slot for the pushrod.

There is a slight lean angle between the lifters and the rocker arms as shown below.

The pushrod tubes line up square with the lifter blocks and hide the lean angle of the pushrods.

In the pics below, a inside bore gauge is lined up app. straight from the lifter bore to the rocker arm slot for the pushrod.

This is the app. lean angle of the pushrods between the lifter and the rocker arm.

The pushrod angle also changes as the rocker arm moves thru it's arc while the valve is opened and closed.¹⁹⁾



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HD TSB #M-1168A dated 11-10-2005

15)

photo courtesy of Royal Motorworks Citroen Parts Plus, [Link to Ebay Store](#)

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<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-era-specific-and-model-specific/efi-sportster-motorcycle-talk-2007-and-up/198138-lifters/page3?t=2074861&page=3>

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