



Strong As An Ox™

## BX2223 Installation Instructions 2002 Honda Insight (Manual Transmission)

Serial No.

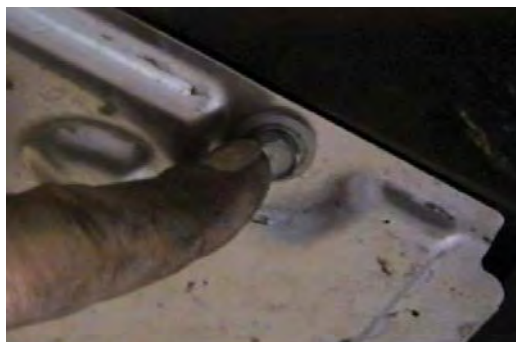
The front fascia, belly pan, metal bumper, air baffle, windshield washer reservoir and head light assemblies are removed for baseplate installation. Trimming of air dam is required. Holes need to be drilled. The BX8869 is available for this vehicle. Attachment Tabs are 24 inches center to center and a height of 13 1/2 inches.



1. Using the phillips screw driver, remove the three screws just forward of front tires, both sides.



2. Just forward of front tire on fascia corner, remove two phillips head screws with the phillips screw driver, both sides.



3. With the 10MM socket, remove two metric bolts and push pins from the belly pan, set aside. Pull fascia forward, disconnect electrical components and set fascia aside.



4. Using the 10MM socket, remove the four metric bolts on head light assembly, pull forward and unplug, both sides.



5. Remove the two metric bolts with the 10MM socket and set tow bracket aside.



6. Through holes on front side of metal bumper, remove four metric bolts with the 12MM socket and set metal bumper aside.



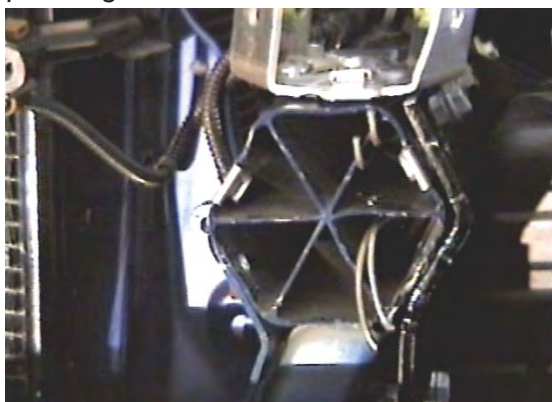
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7. Using the 10MM socket remove the lower metric bolt from the air baffle, on the driver's side. Disconnect the hose clamp, pull baffle down to unsnap from top bolt and set aside.



9. Remove the two metric bolts from outer frame end cap and align front holes of item 2 with the frame holes on driver's side, insert bolts and tighten. Using item 2 as a template drill the four remaining holes into frame with the 13/32" drill bit. Remove item 2 from frame. Repeat process for passenger's side and item 3.



8. Using the 10MM socket remove three metric bolts from windshield washer reservoir, unplug electrical connections and set reservoir on top of engine.



10. Using the 12MM socket, remove the four metric bolts from frame end cap, pull forward and set aside, both sides.

11. Insert item 8 into frame ends while aligning items 2 and 3 with drilled holes. Install items 10 and 12 using item 11 as a spacer plate between item 2 as shown in drawing on page 4, do not tighten. **Be sure and use loctite on all bolts before tightening.** Reinstall end caps on frame ends.



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12. Install item 4 to existing hole on bottom of frame using item 23 and 24. Attach items 9, 12 and 13 on the other end to item 2, according to drawing on page 4, both sides. Do not tighten bolts. **Be sure and use loctite on all bolts before tightening.**



14. Reinstall air baffle on driver's side using items 6 and 18 on the lower bolt. Reconnect hose clamp. **Be sure and use loctite on all bolts before tightening.**



17. The dimensional variations between otherwise identical cars can be considerable. While the location and size of the holes in the baseplate were designed to allow for easy installation, it may be necessary to file a hole slightly to allow a bolt to clear.

18. Install the tow bar and safety cables according to the instructions included in their packages.



13. Align item 1 on the outside of items 2 and 3 holes, install items 9, 11, 12, and 13 according to drawing on page 4. Tighten all bolts on items 1, 2, 3 and 4. Trim air dam as needed to relieve area for item 1. **Be sure and use loctite on all bolts before tightening.**



15. Reinstall wind shield washer reservoir with existing upper bolt and items 5, 14, 16 and 17 on the middle attachment, according to drawing on page 4. **Be sure and use loctite on all bolts before tightening.**

16. Install items 7, 15 and 19 to lower reservoir according to drawing on page 4. **Be sure and use loctite on all bolts before tightening.** Reinstall head light assemblies, metal bumper, towing bracket and fascia. Plug in all electrical connections.



19. Do **not** substitute other devices if the tow bar pin and clip are lost.

20. **DEALER OR INSTALLER: BE CERTAIN THE USER RECEIVES THE INSTRUCTION SHEET.**

### Parts List

Ref. No.	Qty.	Part No.	Description
1	1	61-5654	Weldment, Base Plate, BX2223
2	1	61-5655	Weldment, Bracket, DS, BX2223
3	1	61-5656	Weldment, Bracket, PS, BX2223
4	2	102-6141	Brace, 1/4 x 1 x 10, BX2223
5	1	102-6293	Flat, 16 Ga. x 1 x 2, BX2223
6	1	106-0366	Pipe, 1/4 sch 40 x 3/4 Inch
7	1	106-0367	Pipe, 1/4 sch 40 x 2 1/2 Inch
8	8	61-5208	3/8-16 Nut Plate, w/ Wire
9	10	201-0443	3/8-16 x 1, Hex Bolt, Grd, 5, ZP
10	8	201-0368	3/8-16 x 1 1/4, Hex Bolt, Grd, 5, ZP
11	20	203-0003	3/8 Flat Washer, ZP
12	18	203-0010	3/8 Lock Washer, ZP
13	10	202-0003	3/8-16 Hex Nut, ZP
14	1	201-0569	1/4-20 x 3/4, Hex Bolt, Grd, 5, ZP
15	3	203-0001	1/4 Flat Washer, ZP
16	1	202-0069	1/4-20 Whiz Nut, ZP
17	1	201-0655	6MM-1 X 30MM, Hex Bolt, Grd, 8.8, ZP
18	1	201-0710	6MM-1 X 50MM, Hex Bolt, Grd, 8.8, ZP
19	1	201-0709	6MM-1 X 80MM, Hex Bolt, Grd, 8.8, ZP
20	4	201-0418	8MM-1.25 X 35MM, Hex Bolt, Grd, 8.8, ZP
21	4	203-0102	8MM Lock Washer, ZP
22	4	203-0063	8MM Flat Washer, ZP
23	2	201-0592	12MM-1.5 X 25MM, Hex Bolt, Grd, 8.8, ZP
24	2	203-0105	12MM Lock Washer, ZP
25	2	201-0553	1/4-20 x 1/2 Hx. Wshd, Type F Screw
26	2	201-0192	#10-32 x 1/2 Slot, Rd. Hd. Screw
27	2	203-0054	#10 Lock Washer
28	2	202-0047	#10-32 Hex Nut
29	2	101-5822	Adapter, 4 Way Connector
	2	226-0046	Baseplate Safety Cable, 36" CL III (Not Shown)
	2	229-0359	Quicklink, 3/8, ZP (Not Shown)

### Tools Required

- |              |              |                       |
|--------------|--------------|-----------------------|
| 10MM Socket  | 19MM Socket  | 13/32" Drill Bit      |
| 12MM Socket  | 7/16" Socket | Vise Grips            |
| 13MM Socket  | 9/16" Socket | Phillips Screw Driver |
| Loctite Blue |              |                       |

**IMPORTANT:** Use only genuine factory replacement parts on your Base Plate. Do not substitute homemade or nontypical parts. If a bolt is lost or in need of replacement, for your safety and the preservation of your Base Plate, be sure to use a replacement bolt of the same grade (Usually Grade 5, refer to parts list). Repair parts may be ordered through your nearest **Blue Ox** dealer or distributor.

