



MUFFLER KIT UPGRADE AND INSTALL

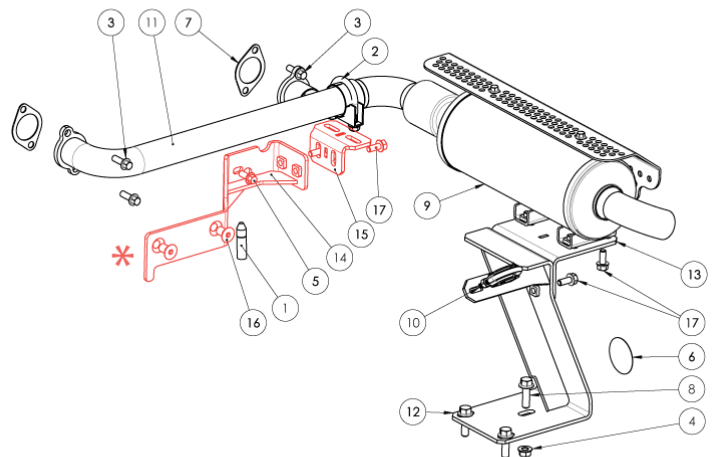
The HHNG5 Ride-On Trowel's are now fitted with a new muffler. This production change will improve engine and muffler cooling by relocating the muffler away from the engine compartment.

Production change as of December 2015 starting from S/N RL0209182

This may extend engine and component life along with following regular service intervals. The following muffler kit and instructions can be used for trowel owners that would like to see these benefits to their older HHNG5 units.

MUFFLER KIT - MQ PART # 32677

Item #	Part #	Description	Qty.
1	1477	Loctite 242 Blue .5cc	1
2	10855	Clamp 1-1/2" Muffler, Guillotine	1
3	15266	Screw HHF M8-1.25 X 25mm	4
4	21781	Nut Flanged 3/8-16 Serrated Pltd	1
5	22021	Screw , HHF 3/8-16 x 1.25" GRD8 Yel Zinc	1
6	23810	Decal Inhalation Hazard, ISO 2" DIA	1
7	30111	Gasket, Muffler, B&S V35	2
8	32476	Screw HHF 3/8-16 x 1.25" Grd8 Yel Zinc	3
9	32560	Muffler, HHNG5	1
10	32603	Clamp, Cushioned U-Bolt, 1.00" Tube	1
11	32649	Header Pipe, Muffler-HHNG5	1
12	32739	Mount W/A Muffler-Bottom	1
13	32741	Mount W/A Muffler-Top	1
14	32765	Bracket W/A, Front Muffler	1
15	32768	Gusset W/A, Front Top Muffler	1
16	32793	Screw, F4SC 7/16-14 x 3/4"	2
17	36720	Screw HHFS 5/16-18 x 3/4 GR5	10



**Later production models starting with S/N PD209362 these support brackets are now included with the kit for added strength and support of the header pipe against vibration.*

SUGGESTED ASSEMBLY TORQUE VALUES						
Diam & Thrds Per Inch	SAE GRADE 2-6"		SAE GRADE 5		SAE GRADE 8	
	Dry Ft. LB.	LUB FT. LB.	Dry Ft. LB.	LUB FT. LB.	Dry Ft. LB.	LUB FT. LB.
1/4-20	5.5	4.2	8	6.3	12	9
1/4-28	6.3	4.7	10	7.2	14	10
5/16-18	11	8	17	13	24	18
5/16-24	12		19	14	27	20
3/8-16	20	15	30	23	45	35
3/8-24	23	17	35	25	50	35

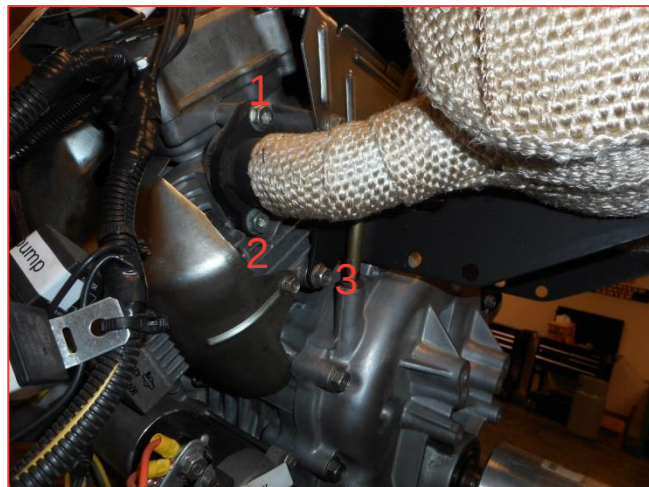


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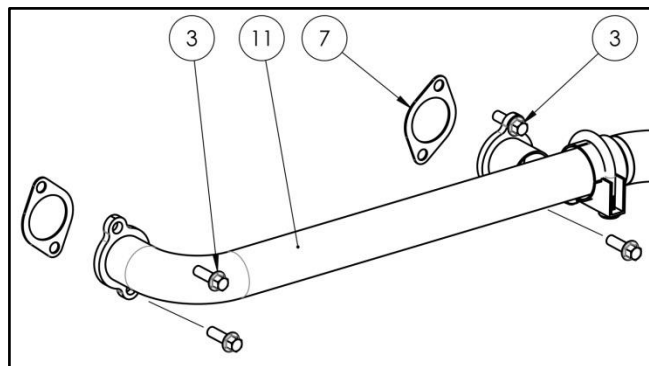
SAFETY FIRST! Installation should be performed by qualified technicians. Do not operate or service the equipment before reading the operations manual. Safety precautions should be followed at all times!

- Before servicing or working on exhaust system ensure it is not hot. Caution: working on a hot exhaust without protective gear may cause severe burns.
- Disconnect the battery cables from the machine.
- Uninstall the old muffler by removing the 6 bolts that's holding the muffler on.

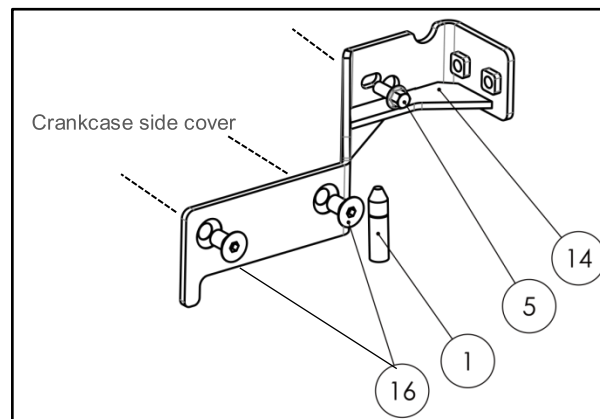


- Install the new header pipe(11) and the two new gaskets(7) using the four Screws HHF M8-1.25 X 25mm(3).

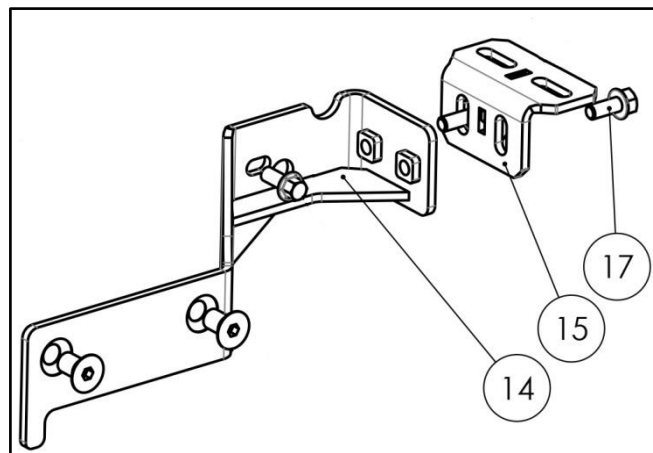
Torque specifications -12.5 ft.lb.



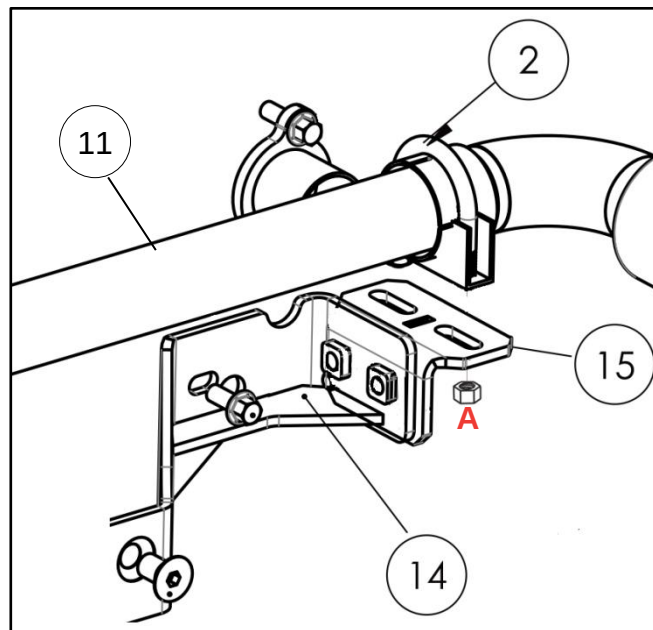
- Mount Bracket W/A Front Muffler(14) to engine crankcase side cover using the Screws,F4SC 7/16-14 x 3/4"(16) and item(5) screw HHF 3/8-16 x 1.25" GRD8 Yel Zinc to engine crankcase side cover. Make sure apply Loctite 242(1) prior to installation. Torque the screws to 37 ft. lbs.



- Using the 2 screws item(17), install item(15) gusset front top muffler to item(14) bracket front muffler. Do not tighten the screws at this time as gusset will be adjusted later.



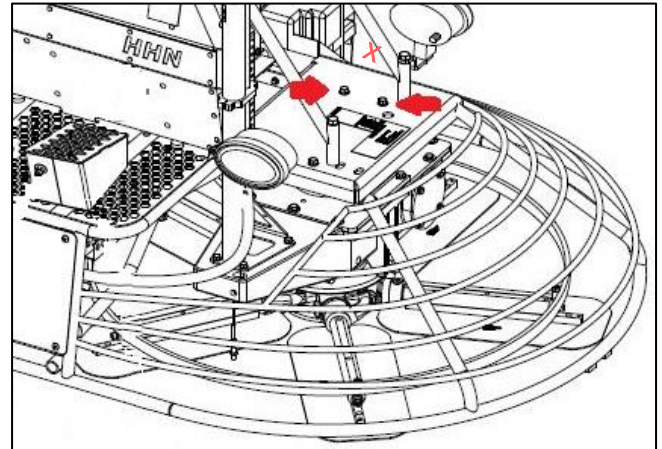
- Header pipe(11) should rest on item(14) bracket front muffler with the u-bolt clamp(2) going through the gusset front top muffler(15). Hand tight the nuts(A) for the u-bolts at this time.



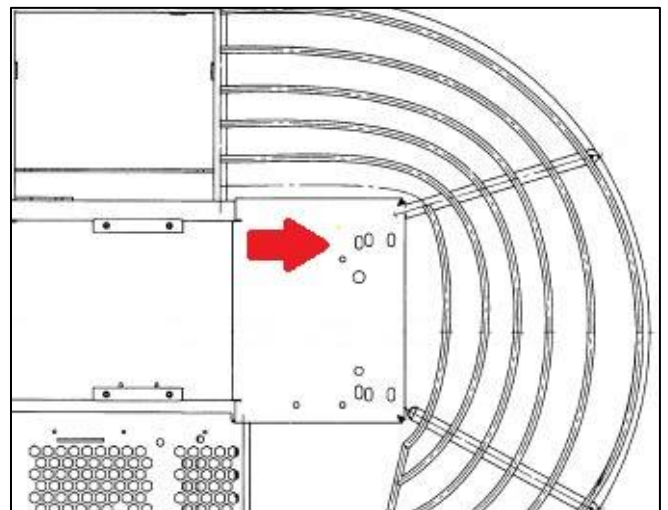
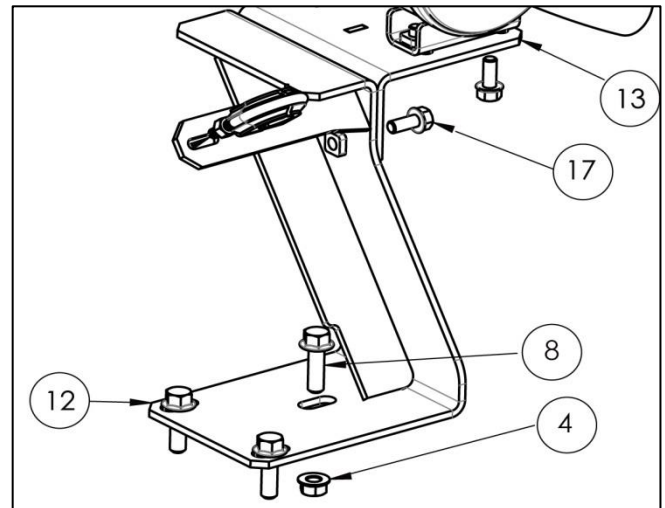


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- From the machine's main frame, remove the two bolts (3/8-16X1/4).
- Using the muffler mount bottom as a template, mount to the main frame using the HHF 3/8-16 x 1.25" Screws.
- Mark to drill for the 3rd hole. Remove the muffler mount bottom and drill a new hole.



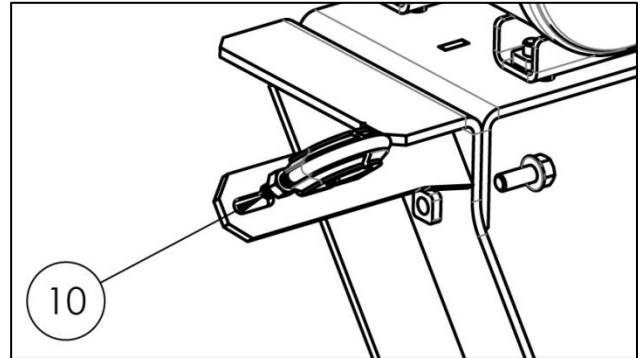
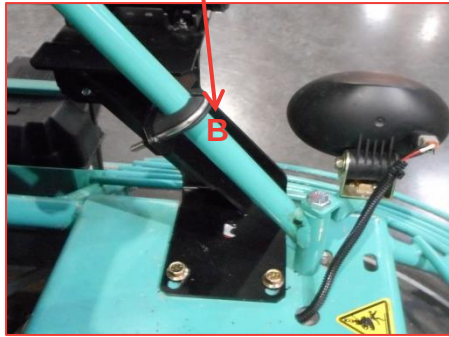
- Install the muffler mount top(13) to muffler mount bottom(12) together with screws, HHFS 5/16-18 X 3/4 (17).
- Mount the muffler mount bracket to the main frame using the Screws HHF 3/8-16 x 1.25(8) and Nut Flanged 3/8-16(4). Hand tight all the screws and nuts at this time.





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- Install the clamp vib. 1" tube u-bolt(10) around the machine's frame support tube (B). Hand tight the nuts at this time.



- Mount and install the new muffler(9) on the muffler mount bracket using the Screw HHFS 5/16-18 3/4 GR5 (11).
- Slide the clamp 1-1/2" Muffler Guillotine(2) over the muffler's mating pipe and secure it in place by tightening the nuts.
- Apply Loctite 242 on all the threads and tighten all the nuts and bolts according to torque specifications.
- Reconnect the battery cables from the machine.

