

TO: All Dealer Principals, Service Managers and Parts Managers

Subject: Water Heater Mounting Bolts

Number: SB 274 DATE: 06/16/2015

NOTICE



Follow recommended safety practices while performing all work. Refer to the Vactor/Guzzler Safety Manual for additional information.

This manual is available at: www.vactor.com

PURPOSE:

Incorrect fasteners were used to mount some HXX, 2100 Series and Guzzcavator water heaters to the subframe base. The water heater may come loose during transport if the nuts loosen. The attached procedure details how to inspect and replace if required.

UNITS TO SERVICE:

See attached list.

WARRANTY COVERAGE:

Refer to last page of this bulletin for warranty instructions.

SPECIAL TOOLS:

NA

PARTS AVAILABILITY: NA

PARTS REQUIRED:

Part No.	Qty.	Description
42706-30	4	HHCS 3/8-16NC x 1-1/4 GR5
16365B-30	8	WASHER,FLAT,USS,3/8,Z/C
43762-30	4	HEX NUT,FIBRE-LOCK 3/8-16NC

PROCEDURE:

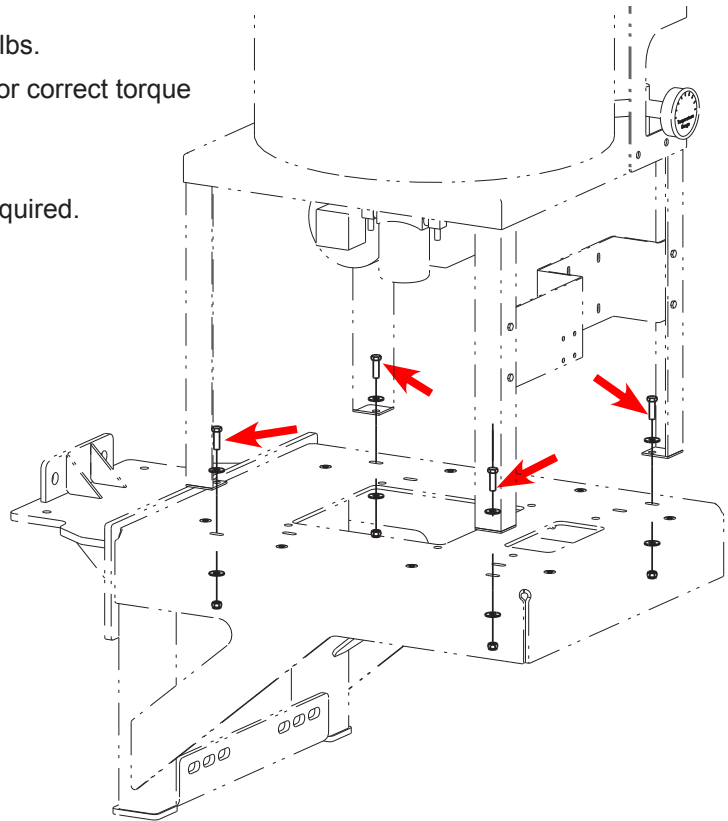
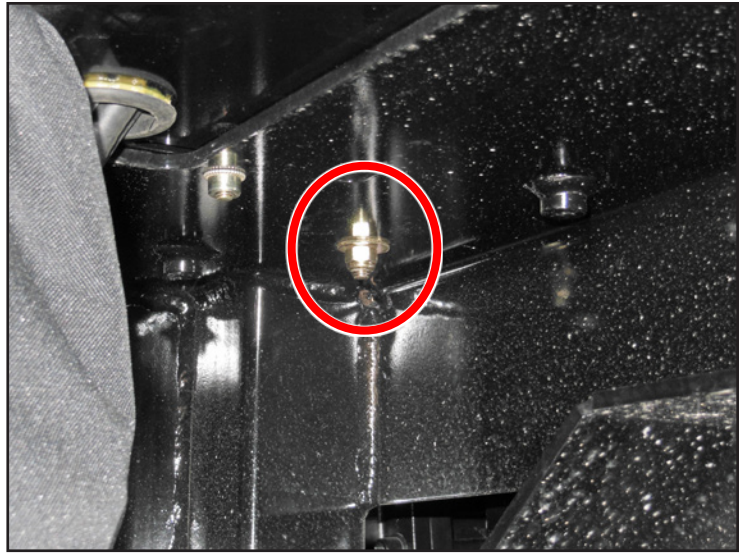
Shut down the unit on level ground, set the brake, and follow lockout/tagout procedures.



1. The fasteners to be checked are the four bolts that hold the water heater down, one in each of the four legs.
2. Visually inspect from under the water heater platform for the correct 3/8 bolts, washers and fibre nuts.
3. If the correct bolts, washers and nuts are not found, an immediate repair will be required.

Repair Procedure

4. Remove the water heater cabinet side panel.
5. Remove the four fasteners holding the water heater down.
6. Install the new bolts, washers and locking nuts.
7. Tighten the new bolts to a torque of 30 ft-lbs.
8. Check all the water heater cabinet bolts for correct torque and tighten as required.
9. Reinstall the side panel.
10. Verify correct operation and service as required.



Model	Serial Number	VIN
21P-FN	14-06V-14694	5KKHAXDV3FLFX1053
21P-FN	14-06V-14721	1FVHG5CY7FHGA1352
21P-FN	14-06V-14742	1FVHG3CY1FHGE0040
21P-FN	14-07V-14771	1FVHG5CY9FHGC6124
21P-FN	14-07V-14781	5KKHAXCY0FLFX1040
21P-CP	14-08V-14906	1NKDL40X0FJ443067
21P-CP	14-08V-14907	1NKDL40X2FJ443068
21P-PD	14-08V-14886	1NKBLJ0X8FJ442187
21P-CP	14-09V-14939	1NKDL40X9FJ443066
21P-CP	14-09V-14967	1NKDL40X3FJ443113
21P-FN	14-09V-14949	5KKHAXCY8FPGD8651
21P-PD	14-09V-14923	1NKDL40X5FJ443064
21P-PD	14-09V-14924	1NKDL40X3FJ443063
21P-PD	14-09V-14942	1NKDL40XXFJ443111
21P-CP	14-10V-14981	1NKDL40X7FJ443115
21P-CP	14-10V-14984	1NKDL40X5FJ443114
21P-CP	14-10V-14989	1NKDL40X8FJ443110
21P-PD	14-10V-14974	1NKDL40X7FJ443065
21P-PD	14-10V-15009	1NKDL40X1FJ443112
21P-PD	14-10V-15037	1NKZL40X7FJ450507
21P-PD	14-11V-15095	1NKDL40X1FJ452098
21P-PD	14-11V-15103	1NKDL40XXFJ451712
21P-FN	14-12V-15127	1NKDL70X1FR976600
21P-PD	14-12V-15129	1NKDL40X3FJ457917
21P-PD	14-12V-15131	1NKDL40X4FJ452094
21P-PD	15-01V-15193	5KKHAXDV7FLGM1430
21P-PD	15-01V-15205	1NKDL40X0FJ451718
21P-PD	15-02V-15295	1NPCL40X2FD304868
21PFS2	15-03V-15411	1HTGSSNT8FH728878
21P-PD	15-04V-15455	1NKDL40X9FJ451717
21P-PD	15-04V-15465	1NKZX4TXXGJ485303
21P-PD	15-04V-15490	1NKZX4TX1GJ485304
21PFSE	15-04V-15489	1FVHG3CY9FHGL0182
21P-PD	15-05V-15560	1NKDL40X2FJ461716
21P-PD	15-06V-15573	5KKHAXCY7FLGR4091
GUZCAV	14-12G-6046	1NKDX4EX1FJ454981
GUZCAV	14-12G-6047	1NKDX4EX3FJ454982
GUZCAV	15-01G-6065	5KKUBBDV0FPGR9337
GUZCAV	15-01G-6067	1NKDX4EX5FJ454983
GUZCAV	15-03G-6079	1NKDL4TX9GR474509
GUZCAV	15-03G-6088	5KKMBBDV1FPGS2637
GUZCAV	15-03G-6091	5KKMBBDVXFPGS2636
GUZCAV	15-04G-6099	5KKMBBDV3FPGS2638
GUZE	14-10G-6018	1NKDL40X7FJ443504
HX-FN	14-08V-14871	5KKHBEDV1FPGC4340
HX-FN	14-11V-15075	5KKHEBDV9FLGK7854

Model	Serial Number	VIN
HX-FN	14-12V-15132	1HTGSSNT0FH653643
HX-FN	14-12V-15157	5KKHBEDV5FPFY0072
HX-FN	15-03V-15344	5KKHBEDVXFPGT2635
HX-PD	14-01V-14328	5KKPAED67EPFD5295
HX-PD	14-01V-14329	1NKDX4TX0EJ413226
HX-PD	14-01V-14330	1NKDX7EX3EJ412327
HX-PD	14-01V-14331	1NKDX7EX6EJ405565
HX-PD	14-01V-14341	5KKPAED64EPFD4914
HX-PD	14-01V-14342	1NKDX4TX6EJ406152
HX-PD	14-01V-14343	5KKPALDV9EPFW2207
HX-PD	14-01V-14353	5KKPAED62EPFD5298
HX-PD	14-01V-14355	1NKDX7EX8EJ413232
HX-PD	14-01V-14357	1NKDX4TX8EJ406153
HX-PD	14-01V-14358	1NKDX7EX4EJ415530
HX-PD	14-01V-14359	1NKDX7EX6EJ406151
HX-PD	14-01V-14400	1NKZX4EXXEJ419036
HX-PD	14-03V-14484	5KKPAED67EPFY0239
HX-PD	14-03V-14485	1NKDX4TXXEJ413220
HX-PD	14-03V-14487	1NKDX7EX7EJ405557
HX-PD	14-03V-14488	1NKDX4TX5EJ414968
HX-PD	14-03V-14490	1NKDX7EX3EJ415535
HX-PD	14-03V-14496	1NKDX4EX1EJ411725
HX-PD	14-03V-14499	1NKDX4TX7EJ414969
HX-PD	14-03V-14501	1FVMG3DV0FHGB4449
HX-PD	14-03V-14502	1NKDX7EX2EJ400847
HX-PD	14-03V-14505	1NKDX7EX5EJ415536
HX-PD	14-03V-14512	1NKDX4EXXFJ420215
HX-PD	14-03V-14515	1NKDX4EXXEJ411724
HX-PD	14-04V-14519	1FVMG3DV9FHGB4448
HX-PD	14-04V-14520	1NKDX4TX3EJ414970
HX-PD	14-04V-14523	1NKDX7EX7EJ415537
HX-PD	14-04V-14530	1NKDX7EX0EJ405559
HX-PD	14-04V-14534	1NKDX4TX5EJ414971
HX-PD	14-04V-14537	1NKBLJ0X8EJ410547
HX-PD	14-04V-14544	1NKDX7EX0EJ415539
HX-PD	14-04V-14546	1NKDX4TX3EJ414967
HX-PD	14-04V-14558	1NKDX7EX7EJ418308
HX-PD	14-04V-14559	1NKDX7EX0EJ402256
HX-PD	14-04V-14566	1NKDX7EX4EJ406150
HX-PD	14-04V-14571	5KKPAED65EPFY0241
HX-PD	14-04V-14578	5KKPAED64FPFX1001
HX-PD	14-04V-14579	1NKDX4TX0EJ415638
HX-PD	14-04V-14584	1NKDX7EX2EJ414831
HX-PD	14-04V-14588	1FVMG3DV7FHGB4447
HX-PD	14-04V-14589	1NKDX4TX9EJ415637
HX-PD	14-05V-14601	1NKDX7EXXEJ417993

Model	Serial Number	VIN
HX-PD	14-05V-14602	1NKDX7EX0FJ426056
HX-PD	14-05V-14611	1NKDX4TX5EJ413223
HX-PD	14-05V-14617	5KKPAED66FPFX1002
HX-PD	14-05V-14618	5KKMAED67FPGC3249
HX-PD	14-05V-14621	1FVMG3DV7FHGB4450
HX-PD	14-05V-14624	1NKDX4TX2EJ413227
HX-PD	14-05V-14632	1NKDX7EXXEJ416262
HX-PD	14-05V-14635	5KKPAED63FPFX1006
HX-PD	14-05V-14638	5KKPALDV6EPFW6053
HX-PD	14-05V-14639	1NKDX7EX5EJ412328
HX-PD	14-05V-14644	1NKDX7EX1EJ416263
HX-PD	14-05V-14648	1HTGSSJT0DJ169032
HX-PD	14-05V-14651	5KKPAED65FPFX1007
HX-PD	14-05V-14653	1NKDX4TX5EJ415585
HX-PD	14-05V-14655	1NKDX4TX4FJ425767
HX-PD	14-05V-14656	1NKDX4EX4EJ417390
HX-PD	14-05V-14661	5KKMAEDV8FPFZ5084
HX-PD	14-05V-14665	5KKPAED67EPFY0242
HX-PD	14-05V-14667	1NKDX4TX0EJ415588
HX-PD	14-05V-14670	1HTGSSJT8CJ596652
HX-PD	14-05V-14672	1NKDX4TX3EJ413222
HX-PD	14-06V-14675	1HTGSSHT4DJ169034
HX-PD	14-06V-14684	1HTGSSJT6DJ169035
HX-PD	14-06V-14689	1NKDX4TX2EJ415639
HX-PD	14-06V-14693	1NKDX7EX8FJ433031
HX-PD	14-06V-14695	1NKDX7EXXFJ433032
HX-PD	14-06V-14699	5KKPAED67FPFX1011
HX-PD	14-06V-14707	1NPTX7TX4ED248304
HX-PD	14-06V-14709	5KKPAED60FPFX1013
HX-PD	14-06V-14710	5KKPAED67FPFX1008
HX-PD	14-06V-14711	1NKBLJ0X3FJ425314
HX-PD	14-06V-14717	5KKPAED64FPFX1015
HX-PD	14-06V-14719	5KKPAED66FPFX1016
HX-PD	14-06V-14722	5KKPAED62FPFX1014
HX-PD	14-06V-14725	1NKBLJ0XXFJ425312
HX-PD	14-06V-14726	5KKPAED69FPFX1012
HX-PD	14-06V-14734	1NPTX7EX4FD265148
HX-PD	14-06V-14735	3HTJHTKTXFN140100
HX-PD	14-06V-14737	5KKPAED68FPFX1017
HX-PD	14-06V-14740	1NPTX7EX6FD265149
HX-PD	14-06V-14752	1NKDX7EXXFJ439557
HX-PD	14-07V-14739	1NKBLJ0X8FJ425311
HX-PD	14-07V-14753	1NKDX7EX8FJ439556
HX-PD	14-07V-14756	1NKDX4TX4EJ413228
HX-PD	14-07V-14759	1NKBLJ0XXEJ410548
HX-PD	14-07V-14760	1FVMG3DV1FHGG8309

Model	Serial Number	VIN
HX-PD	14-07V-14764	1NKDX7EX1FJ439558
HX-PD	14-07V-14767	1NKDX4TX1FJ434409
HX-PD	14-07V-14768	1FVMG3DV3FHGG8313
HX-PD	14-07V-14774	5KKPAED6XFPFX1021
HX-PD	14-07V-14777	1NKDX4EX2FJ426350
HX-PD	14-07V-14790	5KKPAED61FPFX1019
HX-PD	14-07V-14791	1FVMG3DV1FHGG8312
HX-PD	14-07V-14792	5KKPAED65FPFX1010
HX-PD	14-07V-14793	1NKDX4TX8FJ434410
HX-PD	14-07V-14794	1NKDX4TX7EJ415586
HX-PD	14-07V-14795	1NKDX7EX7FJ440357
HX-PD	14-07V-14807	1NKDX4TXXFJ434411
HX-PD	14-07V-14813	5KKPAED61FPFX1005
HX-PD	14-07V-14815	5KKPAED68FPFX1003
HX-PD	14-07V-14816	5KKPAED6XFPFX1004
HX-PD	14-07V-14817	1NKDX4TX2EJ415589
HX-PD	14-07V-14818	1NKDX4EX4FJ440556
HX-PD	14-07V-14821	1NKDX4EX8FJ440558
HX-PD	14-08V-14829	5KKPAEDXFPFX1018
HX-PD	14-08V-14832	1FVHG3DV8FHGB5902
HX-PD	14-08V-14834	5KKPAED68FPFX1020
HX-PD	14-08V-14838	5KKPAED61FPFX1022
HX-PD	14-08V-14841	5KK9AED67FPFX1025
HX-PD	14-08V-14870	1NKDX7EX5FJ440745
HX-PD	14-08V-14872	1NPTX7EX9FD275738
HX-PD	14-08V-14873	1NKDX4TX6FJ443445
HX-PD	14-08V-14875	1NKDX4TX8FJ440739
HX-PD	14-08V-14876	1NKDX7EX3FJ440954
HX-PD	14-08V-14877	1NPTX7EX7FD275740
HX-PD	14-08V-14878	1NPTX7EX0FD275739
HX-PD	14-08V-14879	1NKDX7EX5FJ440955
HX-PD	14-08V-14880	1NKDX7EX7FJ440956
HX-PD	14-08V-14889	1NKDX4TX6FJ440741
HX-PD	14-08V-14890	1NKDX4TX5FJ434414
HX-PD	14-08V-14892	1NPTX7EX9FD275741
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HX-PD	14-08V-14895	1NKDX4TX8FJ440742
HX-PD	14-08V-14896	1NKDX7EX2FJ443165
HX-PD	14-08V-14897	1NKDX4TX4FJ440740
HX-PD	14-08V-14904	1NKDX7EX4FJ443166
HX-PD	14-09V-14908	1NKDX4TX4FJ443444
HX-PD	14-09V-14909	1NKBLJ0X1FJ425313
HX-PD	14-09V-14910	1NKDX4EX6FJ440557
HX-PD	14-09V-14911	1NKDX4EXXFJ440559
HX-PD	14-09V-14915	5KKPAED69FPFX1026
HX-PD	14-09V-14918	1NKDX4TX2FJ443443

Model	Serial Number	VIN
HX-PD	14-09V-14922	1NKDX4TX7FJ443440
HX-PD	14-09V-14925	1NKDX7EXXFJ440952
HX-PD	14-09V-14930	5KKPAED62FPGJ5268
HX-PD	14-09V-14934	1NKDX4TX8FJ443253
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HX-PD	14-09V-14938	1NKDX4TX8FJ443446
HX-PD	14-09V-14940	1NKDX4TX3FJ434413
HX-PD	14-09V-14941	1NKDX4EX0FJ440957
HX-PD	14-09V-14945	1NKDX4EX2FJ440958
HX-PD	14-09V-14953	1NKDX7EX3FJ439559
HX-PD	14-09V-14962	5KKPAED62FPPFX1028
HX-PD	14-09V-14963	1NKDX4TX0FJ443442
HX-PD	14-09V-14964	1NKDX7EX8FJ437287
HX-PD	14-09V-14966	1NKDX4TX1EJ393374
HX-PD	14-09V-14969	1NKDX4TXXFJ443254
HX-PD	14-09V-14970	5KKPAED60FPPFX1027
HX-PD	14-09V-14973	1NKZX4TXXFJ450663
HX-PD	14-10V-14976	1NKDX4TX0FJ443439
HX-PD	14-10V-14977	1NPTX4TX8FD282682
HX-PD	14-10V-14979	1NKDX7EX9FJ449299
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HX-PD	14-10V-14985	1NKDX7EX6FJ437286
HX-PD	14-10V-14986	1NKDX4TX8FJ443267
HX-PD	14-10V-14990	1NKDX7EX0FJ440961
HX-PD	14-10V-15013	1NKDX7EX1FJ449300
HX-PD	14-10V-15014	1NKDX4TX1FJ434412
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HX-PD	14-10V-15022	1NKDX4EXXFJ443249
HX-PD	14-10V-15023	5KKPAEDV8FPGJ7727
HX-PD	14-10V-15024	5KKPAED60FPGJ5270
HX-PD	14-10V-15025	1NKDX7EX6FJ440964
HX-PD	14-10V-15026	5KKPAED68FPGJ5274
HX-PD	14-10V-15033	1NKDX4TX1FJ451887
HX-PD	14-10V-15034	1NKDX4EXXFJ448127
HX-PD	14-10V-15035	1NKDX4EX6FJ443250
HX-PD	14-10V-15043	5KKPAED64FPGJ5272
HX-PD	14-10V-15044	1NKDX7EX0FJ451958
HX-PD	14-10V-15046	5KKPAED64FPGJ5269
HX-PD	14-10V-15047	1NKDX4EX8FJ448126
HX-PD	14-10V-15056	1NKDX4EX8FJ443251
HX-PD	14-10V-15057	5KKPALDV8FPGM7251
HX-PD	14-10V-15058	5KKPALDV6FPGM7250
HX-PD	14-10V-15063	1HTGSSJT8DJ169036
HX-PD	14-10V-15064	5KKPAED62FDGK3970
HX-PD	14-11V-15067	1NKDX4EXXFJ443252
HX-PD	14-11V-15068	1NPTX4XXFD282683

Model	Serial Number	VIN
HX-PD	14-11V-15069	1NKDX4EX1FJ448128
HX-PD	14-11V-15070	1NKDX4TX9FJ451992
HX-PD	14-11V-15071	5KKPAED6XFPJ5275
HX-PD	14-11V-15077	1NPTX4TX1FD282684
HX-PD	14-11V-15083	1NKDX4TX2FJ451994
HX-PD	14-11V-15084	1NKDX4EX3FJ445974
HX-PD	14-11V-15089	1NKDX4TX3FJ442916
HX-PD	14-11V-15097	5KKPALDVXFPJ7252
HX-PD	14-11V-15098	1NKDX4EX4FJ441934
HX-PD	14-11V-15099	5KKPAED62FPGK1880
HX-PD	14-11V-15101	5KKPAED64FPGK1878
HX-PD	14-11V-15106	1NKZX4EX2FJ455045
HX-PD	14-11V-15120	1NKDX4TXXFJ450737
HX-PD	14-11V-15122	1NKDX7EX9FJ440960
HX-PD	14-12V-15133	1NKDX4TX3FJ451888
HX-PD	14-12V-15134	5KKPAED69FPGJ5266
HX-PD	14-12V-15135	5KKPAED66FPGK1879
HX-PD	14-12V-15139	1NKDX4EX3FJ448129
HX-PD	14-12V-15140	1NKDX7EX2FJ456062
HX-PD	14-12V-15141	1NKDX4TX0FJ451993
HX-PD	14-12V-15145	5KKPAED64FPGK1881
HX-PD	14-12V-15148	1NKZX4TX6FJ461790
HX-PD	14-12V-15151	5KKPAED66FPGK1882
HX-PD	14-12V-15158	1NKDX7EXXFJ440966
HX-PD	14-12V-15161	5KKPAED60FPGJ5267
HX-PD	14-12V-15162	1NKDX4TX5FJ451889
HX-PD	14-12V-15176	1NKZX7EX0FJ464490
HX-PD	14-12V-15177	1NKZX4EX3FJ460447
HX-PD	14-12V-15180	5KKPAEDVXFPJ7728
HX-PD	14-12V-15181	1NKDX4TX9FR463125
HX-PD	14-12V-15185	1NKDX7EX7FJ442917
HX-PD	14-12V-15187	1NKDX4TX7FJ455507
HX-PD	14-12V-15189	1NKDX4TX0FJ455509
HX-PD	15-01V-15190	1NKDX4TX9FJ455508
HX-PD	15-01V-15198	1NKDX7EX3FJ460430
HX-PD	15-01V-15199	1HTGSSJT2DJ169033
HX-PD	15-01V-15207	1NKDX7EX5FJ460431
HX-PD	15-01V-15209	1NKDX4TX1FJ451890
HX-PD	15-01V-15210	1NKDX7EXXFJ461624
HX-PD	15-01V-15211	1NKDX4TX6FR464989
HX-PD	15-01V-15223	1NKDX4TX2FR464990
HX-PD	15-01V-15224	1NKDX4EXXFJ448130
HX-PD	15-01V-15225	1FVMG3DVFHGG8311
HX-PD	15-01V-15226	1NKDX4EX1FJ448131
HX-PD	15-01V-15227	1FVMG3DVXFHGG8308
HX-PD	15-01V-15228	1NKZX7TX1FJ459771

Model	Serial Number	VIN
HX-PD	15-01V-15235	1NKZX7TX3FJ459772
HX-PD	15-01V-15236	1NKDX4TX0FJ455042
HX-PD	15-01V-15237	1NKZX4TX8FJ470796
HX-PD	15-01V-15243	1NKDX4TX0FR463126
HX-PD	15-01V-15256	5KKPAED65FPGK1887
HX-PD	15-01V-15257	1FVHG3CY1FHGR7990
HX-PD	15-01V-15258	1NKDX7EX9FJ462344
HX-PD	15-01V-15259	5KKPAED68FLGL2292
HX-PD	15-01V-15260	1NKDX4TX5FJ449298
HX-PD	15-01V-15261	5KKPAED61FLGL2294
HX-PD	15-01V-15262	1HTGSSNT1FH698655
HX-PD	15-01V-15263	1NPTX4TX7FD285587
HX-PD	15-02V-15266	1NKZX4TXXFJ461792
HX-PD	15-02V-15268	1NKZX4TX4FJ470794
HX-PD	15-02V-15274	1NKDX7EX1FJ461625
HX-PD	15-02V-15275	5KKMBBDV2FPGL2688
HX-PD	15-02V-15276	1NKDX7EX5FJ462342
HX-PD	15-02V-15277	1NKZX7TX5FJ459773
HX-PD	15-02V-15278	1FVMG3DV8FHGR3549
HX-PD	15-02V-15289	1NKZX4TX1FJ470798
HX-PD	15-02V-15290	2NPTX7EX1FM288039
HX-PD	15-02V-15291	1FVMG30V2FHGG8310
HX-PD	15-02V-15292	1NPCX4TXXFD296227
HX-PD	15-02V-15293	1NKZX7TX7FJ459774
HX-PD	15-02V-15301	1NKZX4EX7FJ464890
HX-PD	15-02V-15302	5KKPAED66FLGL2291
HX-PD	15-02V-15303	1NKDX4EX7FJ459571
HX-PD	15-02V-15304	1NPCX4TX8GD294025
HX-PD	15-02V-15305	1NKDX4EX7FR463105
HX-PD	15-02V-15306	1NKZX4EX8FJ460444
HX-PD	15-02V-15314	5KKPAED63FPGK1886
HX-PD	15-02V-15315	5KKPAED6XFLGL2293
HX-PD	15-02V-15319	5KKPAED6XFPGK1884
HX-PD	15-02V-15321	1NPCX7EX6GD293972
HX-PD	15-02V-15327	5KKPALDV9FPGN2779
HX-PD	15-02V-15328	1NKBLJ0X9FJ462335
HX-PD	15-02V-15329	1NKDX4TX2FR463127
HX-PD	15-02V-15332	3HTJGTKT1GN744171
HX-PD	15-03V-15339	5KKPAED63FLGL2295
HX-PD	15-03V-15343	5KKPALDV7FPGN2778
HX-PD	15-03V-15350	1NKZX4TXXFJ470797
HX-PD	15-03V-15355	1NKZX4TX6FJ470795
HX-PD	15-03V-15356	5KKPAED61FPGK1885
HX-PD	15-03V-15357	5KKPALDV5FPGN2777
HX-PD	15-03V-15360	1NPTX4TX7FD288361
HX-PD	15-03V-15363	1NKDX4EX2FJ459574

Model	Serial Number	VIN
HX-PD	15-03V-15364	5KKPAED68FLGT3670
HX-PD	15-03V-15370	5KKPAED61FLGT3672
HX-PD	15-03V-15373	1NKDX4EX7FJ462941
HX-PD	15-03V-15376	1NKDX4EX9FJ459572
HX-PD	15-03V-15377	5KKPAED6XFLGT3671
HX-PD	15-03V-15380	1NKDX4EX0FJ462943
HX-PD	15-03V-15384	1NKDX4TX2GR463128
HX-PD	15-03V-15385	5KKPAED66FPGK3969
HX-PD	15-03V-15386	1NKSX7EXXFJ459779
HX-PD	15-03V-15387	1NKZX7EX8FJ459778
HX-PD	15-03V-15388	1NKDX4EX9FR463106
HX-PD	15-03V-15390	1NKDX4EX9FJ462942
HX-PD	15-03V-15391	1NKDX7EX3GJ474698
HX-PD	15-03V-15397	1NKDX4EX5FJ462940
HX-PD	15-03V-15401	1NKBLJ0X7FJ462334
HX-PD	15-03V-15402	1NKZX4TX1GJ476568
HX-PD	15-03V-15403	1NKZX4TX5FJ461795
HX-PD	15-03V-15406	1NKZX4TX1FJ461793
HX-PD	15-03V-15409	5KKPAED63FLGT3673
HX-PD	15-03V-15412	5KKPAED67FLGT3675
HX-PD	15-03V-15420	1NPTX4TX2FD285593
HX-PD	15-03V-15421	1NKBLJ0X5FJ462333
HX-PD	15-03V-15428	1NKZX4TX8FJ461791
HX-PD	15-04V-15429	5KKHBEDV9FLGM1432
HX-PD	15-04V-15431	1NKDX4EX0FJ459573
HX-PD	15-04V-15432	1NKDX4TXXFJ459230
HX-PD	15-04V-15435	1NKBLJ0X3FJ462332
HX-PD	15-04V-15436	5KKPAED65FLGT3674
HX-PD	15-04V-15437	5KKPAED68FPGK1883
HX-PD	15-04V-15448	1NKZX4EXXFJ460445
HX-PD	15-04V-15449	1NKZX7EX1GJ474611
HX-PD	15-04V-15451	5KKMBBDVXFPGV1943
HX-PD	15-04V-15452	1FVHG3CY7FHGT2481
HX-PD	15-04V-15453	1NPCX7EX6FD296286
HX-PD	15-04V-15454	1NKDX4TXXGR468884
HX-PD	15-04V-15457	1NKZX4TX3FJ461794
HX-PD	15-04V-15466	5KKHBEDV0GLGM1434
HX-PD	15-04V-15467	5KKHBEDV7FLGM1431
HX-PD	15-04V-15468	1NKDX4TX0GJ978689
HX-PD	15-04V-15471	1NKDX4TX1GR468885
HX-PD	15-04V-15474	5KKPAED65FLGR4037
HX-PD	15-04V-15479	5KKPAED63FLGR4036
HX-PD	15-04V-15483	1NKZX4TX1GJ485156
HX-PD	15-04V-15484	1NKDX7EX0FJ451636
HX-PD	15-04V-15492	5KKPAED67GLGR4042
HX-PD	15-04V-15498	5KKPAED61FLGR4035

Model	Serial Number	VIN
HX-PD	15-05V-15499	5KKPAED67FLGR4038
HX-PD	15-05V-15500	1NKDX4TX4FR464991
HX-PD	15-05V-15509	2NPTX7EX8FM288362
HX-PD	15-05V-15510	1NKZX4EX3GJ460448
HX-PD	15-05V-15511	5KKPAED69GLGR4043
HX-PD	15-05V-15518	5KKPAED65GLGR4041
HX-PD	15-05V-15525	2NPTX7EXXFM288363
HX-PD	15-05V-15532	1NKDX7EX7FJ462343
HX-PD	15-05V-15534	5KKPAED6XGLGR4049
HX-PD	15-05V-15536	5KKPAED69FLGR4039

Model	Serial Number	VIN
HX-PD	15-05V-15542	1NKDX4TX4GR463129
HX-PD	15-05V-15545	1NKDX4EX0FR463107
HX-PD	15-05V-15549	1NKZX4EX5GJ460449
HX-PD	15-05V-15556	5KKPAED65FLGR4040
HX-PD	15-05V-15566	1NKZX4EX1GJ460450
HX-PD	15-06V-15567	1NKDX4TX4FR464988
HX-PD	15-06V-15568	1NKDX4TX0GR463130
HX-PD	15-06V-15568	1NKDX4TX0GR463130
HX-PRD	14-08V-14828	1FVACXCY1FHGK1139

PURPOSE: THE PURPOSE OF THIS STANDARD IS TO PROVIDE A RECOMMENDED TORQUE FOR THREADED FASTENERS SUCH AS BOLTS, NUTS, CAP SCREWS, USED IN STEEL AND CAST IRON PARTS.

APPLICATION: THIS STANDARD IS INTENDED FOR FASTENERS OF GASKETED OR NON-GASKETED JOINTS, WITH OR WITHOUT STEEL WASHERS, AND WITH COARSE OR FINE THREADS. ALL SPECIAL CONDITIONS WHICH WILL SERIOUSLY AFFECT THE RELATIONSHIP BETWEEN TORQUE AND TENSION OF THE FASTENER, SUCH AS SPECIAL SURFACE FINISHES, LEAD WASHERS, AND FASTENERS SCREWED INTO MATERIAL OTHER THAN STEEL OR CAST IRON, WILL REQUIRE SEPARATE TORQUE VALUES TO BE INCLUDED IN THE APPLICABLE SPECIFICATION. THIS SPECIFICATION DOES NOT APPLY TO TORQUING OF HYDRAULIC CONNECTIONS.

MEAN OR BASIC RECOMMENDED TIGHTENING TORQUE FOR INCH FASTENER REQUIRING ±20% ACCURACY*. TORQUE VALUES ARE BASED ON NON-LUBRICATED THREADS.

NOM. DIA. INCH	TORQUE IN POUND FOOT (LB-FT)	
	GRADE 5	GRADE 8
1/4 - .250	9	12
5/16 - .312	18	25
3/8 - .375	30	45
7/16 - .438	50	70
1/2 - .500	75	110
9/16 - .562	110	155
5/8 - .625	155	215
3/4 - .750	270	385
7/8 - .875	435	620
1 - 1.000	660	930

NOM. DIA. INCH	TORQUE IN NEWTON METER (Nm)	
	GRADE 5	GRADE 8
1/4 - .250	12.2	16.3
5/16 - .312	24.4	33.9
3/8 - .375	40.7	61.0
7/16 - .438	68	95
1/2 - .500	101	149
9/16 - .562	150	210
5/8 - .625	210	290
3/4 - .750	365	520
7/8 - .875	590	840
1 - 1.000	895	1260

BOLT HEAD MARKING



GRADE 5



GRADE 8

*WRENCH TYPES WITH ±20% ACCURACY:

TORQUE CONTROLLED IMPACTS WITH TORSION BARS
HAND TORQUE WRENCHES
NUTRUNNERS - STALL AND SHUTOFF
NUTRUNNERS - ELECTRONIC SHUTOFF
AIR CYLINDER - STALL TYPE

NOTE: THIS DOES NOT INCLUDE AIR AND ELECTRIC IMPACT WRENCHES WHICH TYPICALLY ARE ±50% ACCURATE.

NOTE: NYLON LOCKING NUTS WILL BE TORQUED TO GRADE 5 STANDARDS

Warranty Coverage and Claim Submittal

The ESG dealer should submit a warranty claim.

Use the following information when submitting a warranty claim:

CAUSAL PART: **48532-30**

To create the FAULT CODE, click **SUBFRAME (034)**, then click **FASTENERS (108)**.

In the FAULT FOUND drop down list, select **DESIGN UPGRADE**.

In the CAUSED BY drop down list, select **FACTORY UPGRADE**.

To enter the Service procedures, perform the following:

For INSTALLED PART # **48532-30**, select **SUBFRAME (034)**, select **FASTENERS (108)**, and then select **REMOVE AND REPLACE (00)**.

Standard Repair Time (SRT) of **1 hrs and 0 min** is allowed.