



CANADA Valve Hydrant Extension Manual

Operating Instructions

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Reliable Connections[®]

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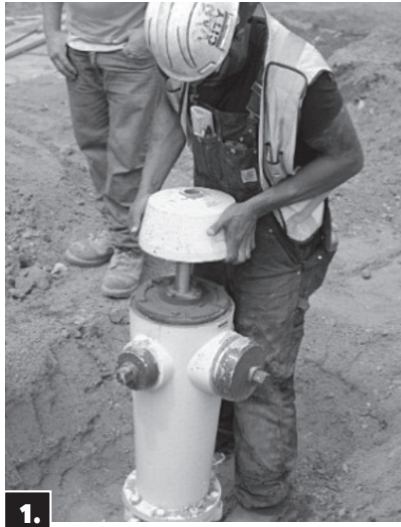
⚠ WARNING: Before removing any bolts(s) holding the Hydrant together, shut off gate valve to isolate Hydrant from main water source. Loosen (do not remove) one nozzle cap two turns and check for water under pressure inside Hydrant - bleed off any pressure, then remove nozzle cap completely. Open Hydrant main valve completely. A continuous flow of water, no matter how slight, indicates Hydrant is not properly isolated from the main water supply, and that problem must be corrected before any Hydrant disassembly can proceed. Disassembly of Hydrant with pressurized water acting against the main valve could result in unexpected ejection of Hydrant parts, debris or high-pressure water stream, which could cause serious bodily injury.



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Adding an Extension

NOTE: A complete extension kit consists of the components listed overleaf. Verify availability of all components before proceeding with extending hydrant.



1. To remove bonnet, locate the bonnet pins that are directly above the hose caps. Using hammer and punch, drive the pins into the housing. (Do not discard bonnet pins; they are needed for final bonnet assembly in Step 13).



2. Starting with the 2 short bolts in the recessed pockets, remove all 6 housing bolts and turn the operating nut counter-clockwise for Open Left Hydrants or clockwise for Open Right Hydrants. After operating nut has been disengaged from the top rod, lift housing carefully to remove from the hydrant. (Do not discard bolts; they are needed for Step 12).



3. Using the seat removal wrench, turn counter-clockwise to remove the lower rod and seat assembly.



4. Undo bolts and nuts and remove upper barrel, traffic flange and barrel gasket. (Do not discard nuts and bolts; they are needed for Step 8).



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Adding an Extension



5. Install the D.I. flange (ID-5) flat side down, using side bolts and nuts (ID-6 and ID-7) to lower barrel. Then, place the new barrel gasket (ID-10) on the lower barrel.



6. Install extension to lower barrel using barrel bolts and ground flange nuts (ID-11 and ID-9). See torque specification values on page 6.



7. Reinstall the traffic flange using side bolts and nuts (ID-6 and ID-7) as well as barrel gasket (ID-10).



8. Reinstall the upper barrel to the extension using barrel bolts and ground flange nuts (ID-11 and ID-9). See torque specification values on page 6.

NOTE: Do not over torque bolts, as it is designed to break.

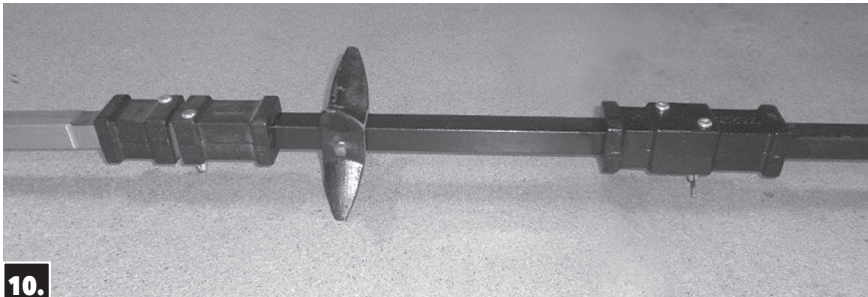


9. Remove existing clevis pin from coupling (coupling to remain assembled to the nickel plated top rod). Then remove rod guide currently on the lower rod.



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Adding an Extension



10.

10. Assemble coupling (ID-4) to the lower rod. Slide the rod guide on to the newly installed extension rod 5-6" below the end of the rod. Then, reinstall the top rod.



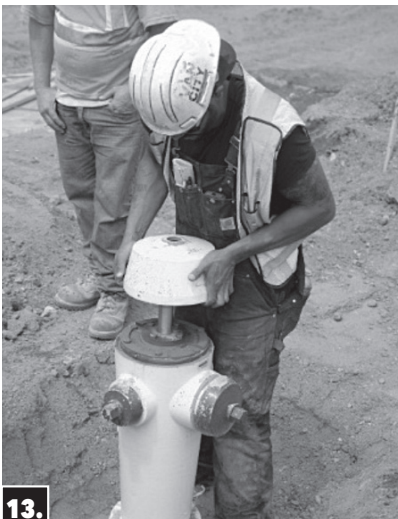
11.

11. Before lowering completed rod assembly into hydrant, check seat gasket and lubricate with manufacturer approved NSF food-grade grease. Using seat wrench, turn clockwise to seat lower rod.



12.

12. Install new housing gasket (ID-12) to the housing assembly and carefully reinstall housing over the top rod (turn in opposite direction of Step 2). Replace bolts in bearing housing by installing the longer bolts first, then the 2 short bolts in the recessed pockets (reverse of Step 2).



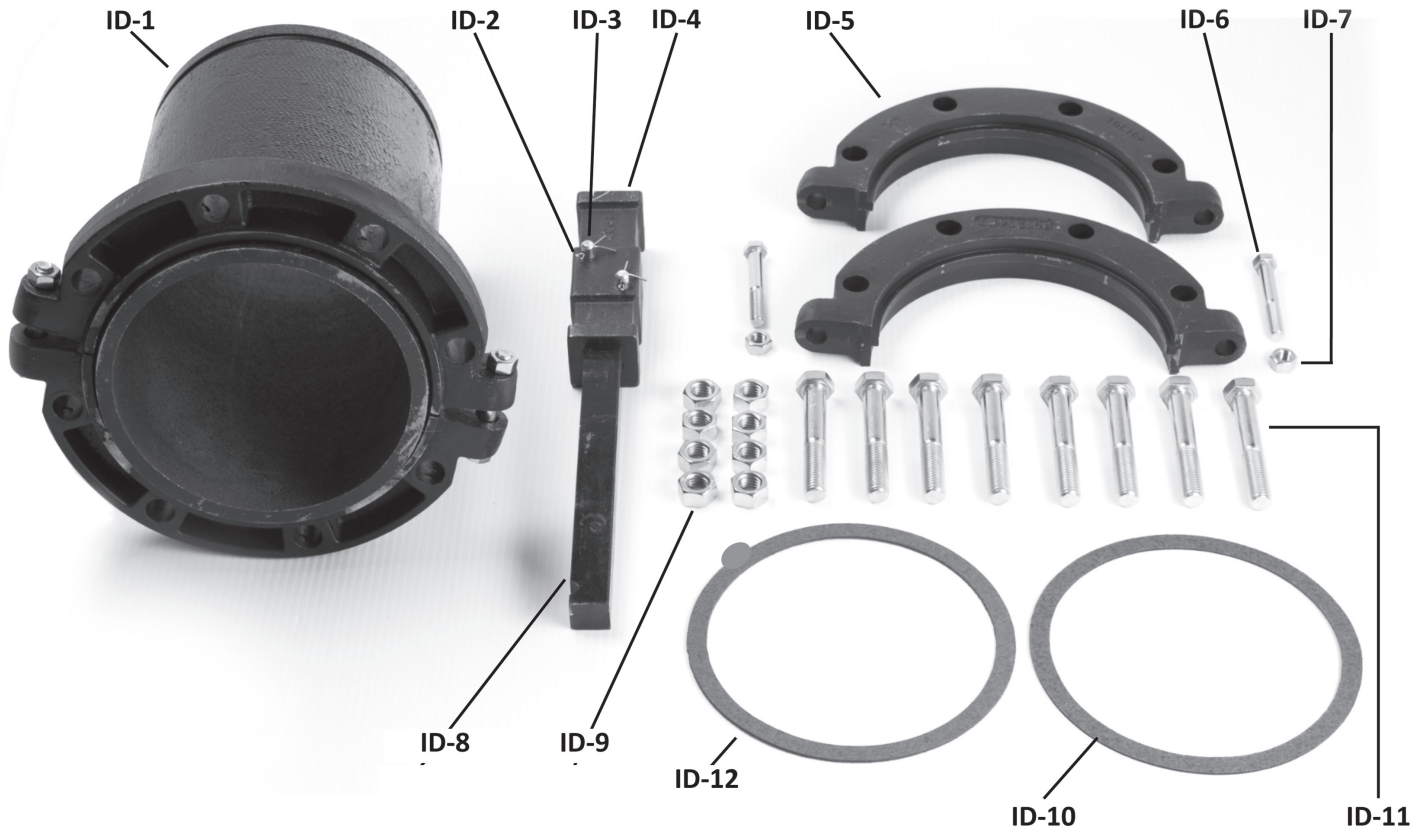
13.

13. Reinstall bonnet using bonnet pins previously removed in Step 1.



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Extension Parts List

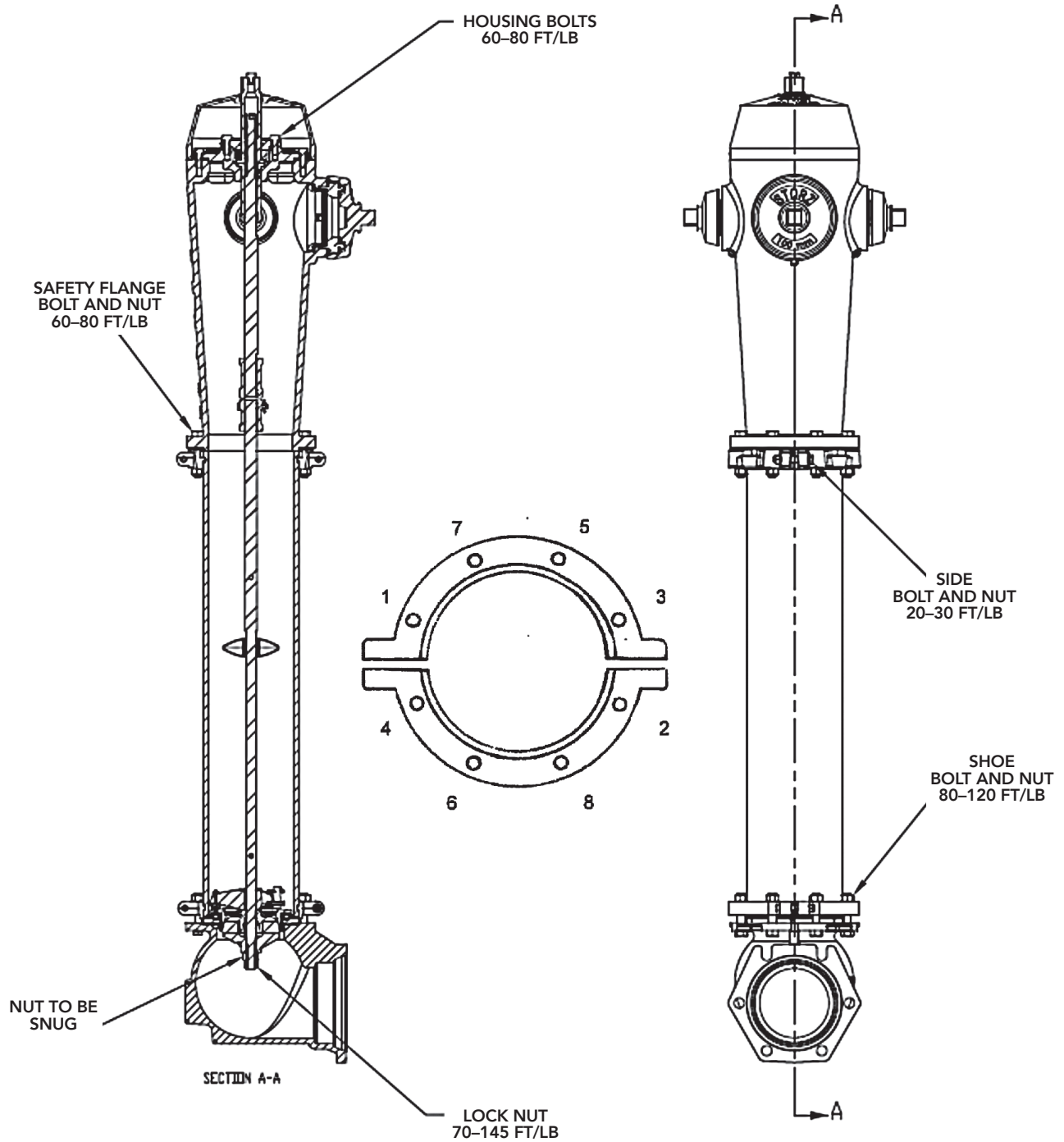


ID	Description	Catalog Number	Part Number	Qty Needed
ID-1	Barrel Extension	18-10-1	Varies	1
ID-2	Cotter Pin	30-51-2A	195235	2
ID-3	Clevis Pin	30-51-2T	305456	2
ID-4	Coupling	30-51	1937	1
ID-5	Flange	18-10-2	281301P	1
ID-6	Side Bolt	18-10-3	300578	2
ID-7	Side Nut	18-10-3A	300519	2
ID-8	Rod Extension	30-6	Varies	1
ID-9	Ground Flange Nut	39-10A	198902	8
ID-10	Barrel Gasket	38	000612	2
ID-11	Barrel Bolt	39-10	354689	8
ID-12	Housing Gasket	14	604	1



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Torque Specification Values



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