Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference. 23i

ICON™

COOLING SYSTEM PRESSURE TEST KIT



58725

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

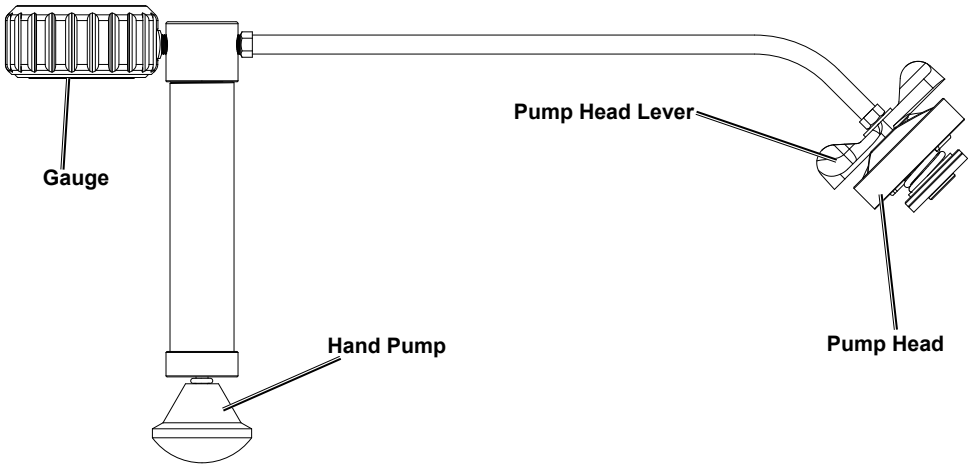
⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

Important Safety Information

1. **TO PREVENT STEAM BURNS, DO NOT OPEN CAP OF HOT OR WARM RADIATOR.**
2. Loosen the radiator cap or coolant reservoir cap slowly.
3. Keep away from hot engine parts and fluids.
4. Use this product only according to these instructions. Improper use can create hazards.
5. Wear ANSI-approved safety goggles and heat resistant work gloves during product assembly and use.
6. Refer to the vehicle's service manual for specific radiator pressure testing instructions before use.
7. Clean up coolant spills immediately. Dispose of fluids according to local, state, and federal codes and regulations.
8. Keep work area clean and well lit.
9. Do not overreach. Keep proper footing and balance at all times. This enables better control of the product in unexpected situations.
10. Keep bystanders out of the area during assembly and use.
11. Do not assemble or operate when tired or when under the influence of drugs or medication.
12. This product is not a toy. Do not allow children to play with or near this product.
13. Use as intended only.
14. Inspect before every use. Do not use if parts missing or damaged.
15. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

Functions



Operating Instructions

Pressure Testing With Coolant Reservoir

1. Refer to vehicle's service manual for specific coolant system pressure testing instructions.

WARNING! TO PREVENT SERIOUS INJURY: Do not open coolant reservoir cap of a hot or warm coolant system.

2. Loosen vehicle's coolant reservoir cap slowly to relieve any excess pressure before removing cap completely.
3. Inspect the coolant reservoir cap, cap seal and coolant reservoir opening threads to make sure the sealing surface is free of any debris and is not damaged.
4. Connect appropriate Adapter to coolant reservoir opening.
5. Connect Pump Head to Adapter.
6. Turn Pump Head Lever clockwise.

CAUTION!: Do not over pressurize the coolant system. Damage to system may occur.

7. Rapidly pump Hand Pump while watching the Pressure Gauge.
8. Pressurize the coolant system up to the manufacturer specific pressure only.
9. If manufacturer specific pressure cannot be achieved, check system for coolant leaks.
10. If manufacturer specific pressure is achieved, stop pumping Hand Pump and wait 30 minutes.
11. Check Gauge to see if manufacturer specific pressure held.
12. No leak in coolant system if pressure holds.
13. Once test is complete, release the air pressure by turning Pump Head Lever counterclockwise.
14. Rotate Pump Head counterclockwise to remove.
15. Store the Kit in its Case in a clean, dry, safe location out of reach of children.

Pressure Testing With Radiator

1. Refer to vehicle's service manual for specific coolant system pressure testing instructions.

WARNING! TO PREVENT SERIOUS INJURY: Do not open radiator cap of a hot or warm coolant system.

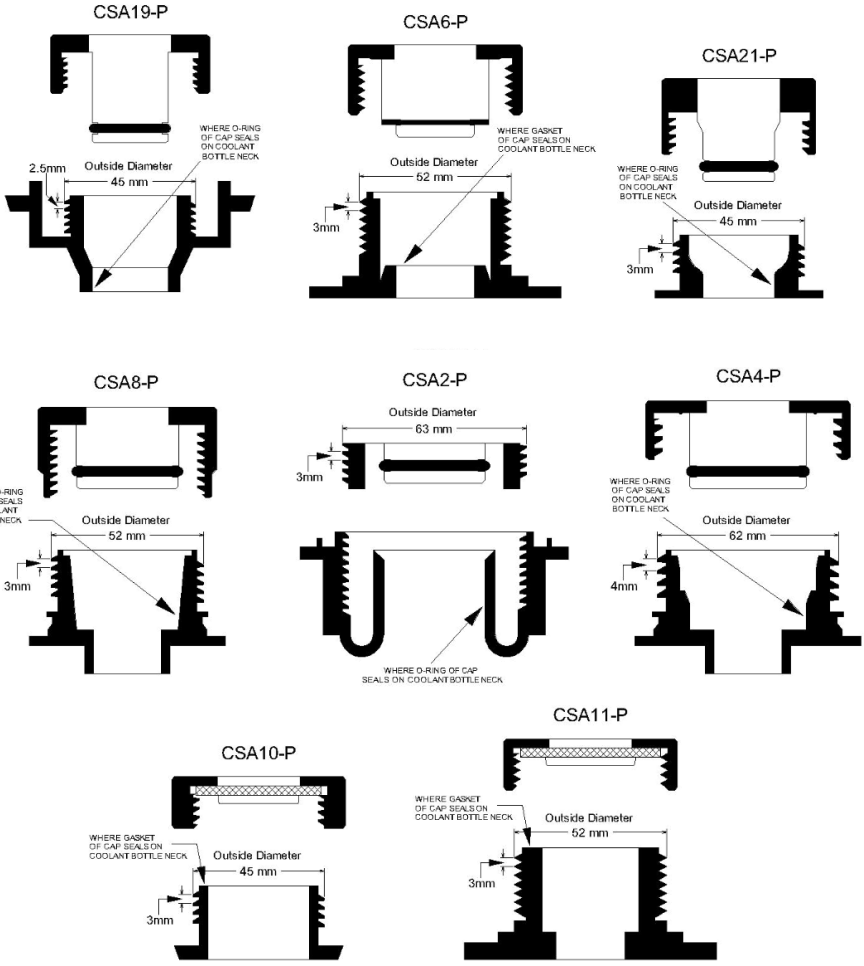
2. Loosen vehicle's radiator cap slowly to relieve any excess pressure before removing cap completely.
3. Inspect the radiator cap, cap seal and radiator opening to make sure the sealing surface is free of any debris and is not damaged.
4. If needed, connect appropriate Adapter to radiator opening.
5. If needed, connect Pump Head to Adapter.
6. Turn Pump Head Lever clockwise.

CAUTION!: Do not over pressurize the coolant system. Damage to system may occur.

7. Rapidly pump Hand Pump while watching the Pressure Gauge.
8. Pressurize the coolant system up to the manufacturer specific pressure only.
9. If manufacturer specific pressure cannot be achieved, check system for coolant leaks.

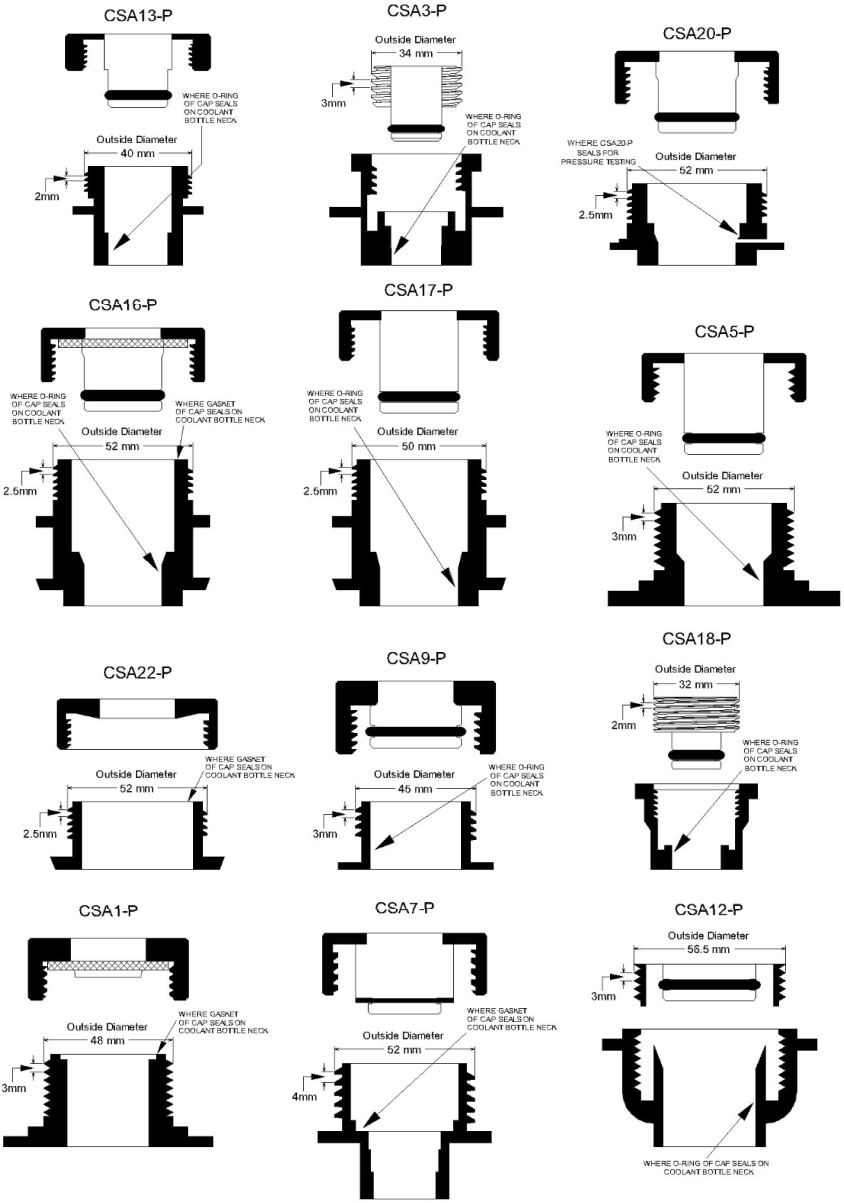
10. If manufacturer specific pressure is achieved, stop pumping Hand Pump and wait 30 minutes.
11. Check Gauge to see if manufacturer specific pressure held.
12. No leak in coolant system if pressure holds.
13. Once test is complete, release the air pressure by turning Pump Head Lever counterclockwise.
14. Rotate Pump Head counterclockwise to remove.
15. Store the Kit in its Case in a clean, dry, safe location out of reach of children.

Coolant Reservoir Adapter Chart



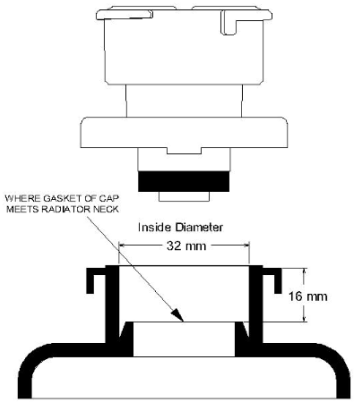
For technical questions, please call 1-888-866-5797.

Coolant Reservoir Adapter Chart

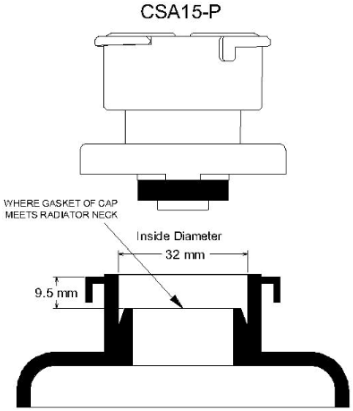


Coolant Radiator Adapter Chart

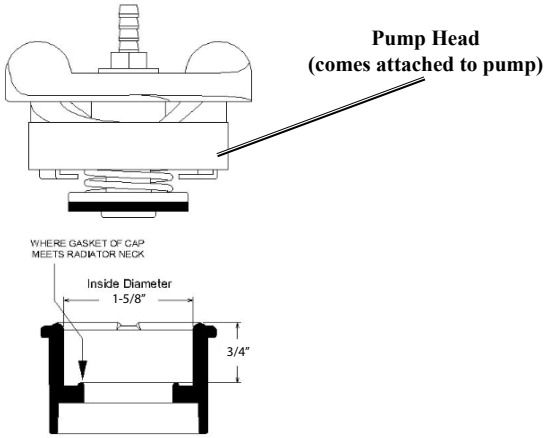
CSA14-P



CSA15-P



CSPT1-P



For technical questions, please call 1-888-866-5797.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS DOCUMENT AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts List and Assembly Diagram

Parts List

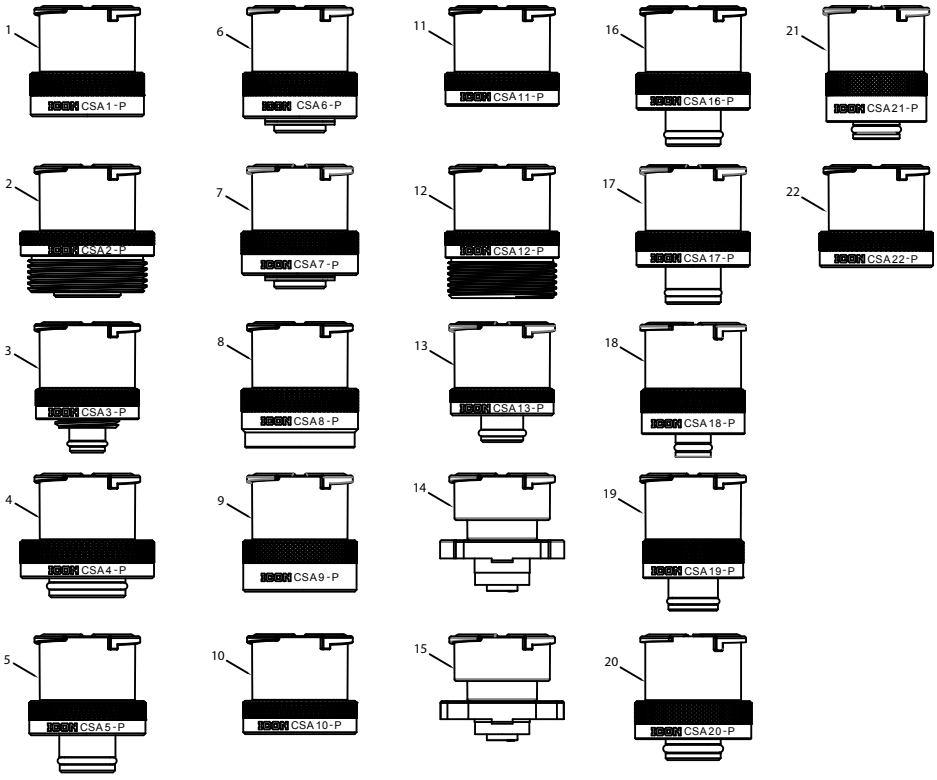
Part	Description	Qty
1	CSA1-P Adapter	1
2	CSA2-P Adapter	1
3	CSA3-P Adapter	1
4	CSA4-P Adapter	1
5	CSA5-P Adapter	1
6	CSA6-P Adapter	1
7	CSA7-P Adapter	1
8	CSA8-P Adapter	1
9	CSA9-P Adapter	1
10	CSA10-P Adapter	1
11	CSA11-P Adapter	1
12	CSA12-P Adapter	1
13	CSA13-P Adapter	1
14	CSA14-P Adapter	1
15	CSA15-P Adapter	1
16	CSA16-P Adapter	1
17	CSA17-P Adapter	1
18	CSA18-P Adapter	1
19	CSA19-P Adapter	1
20	CSA20-P Adapter	1
21	CSA21-P Adapter	1
22	CSA22-P Adapter	1
23	CSPT1-P Pump	1

Record Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175445339 when ordering parts.

Assembly Diagram





Limited Warranty

This ICON product is warranted to the original purchaser to be free from defects in materials and workmanship for a period of one (1) year beginning on the date of purchase (or product receipt, if later). To obtain warranty service, the product or part must be returned to us with proof of purchase (e.g. in-store receipt or packing slip/invoice) and may require shipment by purchaser to a service center at purchaser's expense. If our inspection verifies a covered defect in materials or workmanship during the warranty period, we will, at our option, repair or replace the defective product. We will return repaired products within a reasonable time at our expense, but if we determine that there is no defect, or that the defect resulted from causes not within the scope of our warranty, then we will return the product to you if you pay return shipping costs.

This warranty does not cover any failure or damage that we determine is due directly or indirectly to normal wear and tear, misuse, use not for the intended purpose or not in accordance with the product manual, abuse, accident, rental, modification or alteration, unauthorized repair, improper installation, neglect, lack of maintenance, or any other failure not arising from defective materials or workmanship. Fraudulent returns or claims will be denied. The repair or replacement described in this warranty shall be your sole and exclusive remedy. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES, WRITTEN OR ORAL, AND ANY IMPLIED WARRANTIES ARE DISCLAIMED TO THE EXTENT PERMITTED BY LAW AND OTHERWISE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. HARBOR FREIGHT SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES OR COSTS ARISING FROM THIS WARRANTY OR THE USE OF THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THESE LIMITATIONS MAY NOT APPLY TO YOU.

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