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## CTS-3 Three-Way Antifreeze Specifications & Instructions

2050-3 \* 2005 \* 2050-3K  
Ford Rotunda #328-2050

**Please read all instructions and safety information prior to using product.**

Test for Nitrite (corrosion protection). Use the test kit CID A-A-51461 Type II (NSN: 6850-01-154-3653) or 3-way Commercial Engine coolant test strip that tests for Nitrite concentration. Ideal Nitrite concentration for 50/50 antifreeze/water solution is between 1200 and 1400 ppm. If some coolants have a combination of Nitrite and Molybdate as corrosion protection additives, a minimum combined concentration of Nitrite plus Molybdate in the prediluted coolant shall be 780 ppm. Less than 300 ppm of Nitrite or Molybdate in the CID coolant is not acceptable. Use 3-way commercial test strips for measuring Molybdate in the coolant.

### Introduction

The ACU2050-3 series of test strips provide exceptional quality and value in the measurement of the freeze-point concentration and supplemental additives in your truck's coolant. The easy-to-administer test involves three steps: taking a coolant sample from your radiator, dipping the test strip into the sample and comparing the color of the pads at the end of the strip to the chart. Results are immediate, so you can correct any problems right away.



### Availability

Product	Glycol	Molybdate	Nitrite	Quantity
ACU2050-3	0 - 60%	0 - 1000 ppm	0 - 3200 ppm	600 (12 btls of 50 ea)
ACU2005	0 - 60%	0 - 1000 ppm	0 - 3200 ppm	100 strips
ACU2050-3K	0 - 60%	0 - 1000 ppm	0 - 3200 ppm	600 strips with kit
ACU2050-R	0 - 60%	0 - 1000 ppm	0 - 3200 ppm	Display - 25 pkts of 4
Ford Rotunda part number 328-2050 (formerly #328-00001)				
Retail Package	0 - 60%	0 - 1000 ppm	0 - 3200 ppm	4 individual strips
Retail Kit	0 - 60%	0 - 1000 ppm	0 - 3200 ppm	50 strips with kit

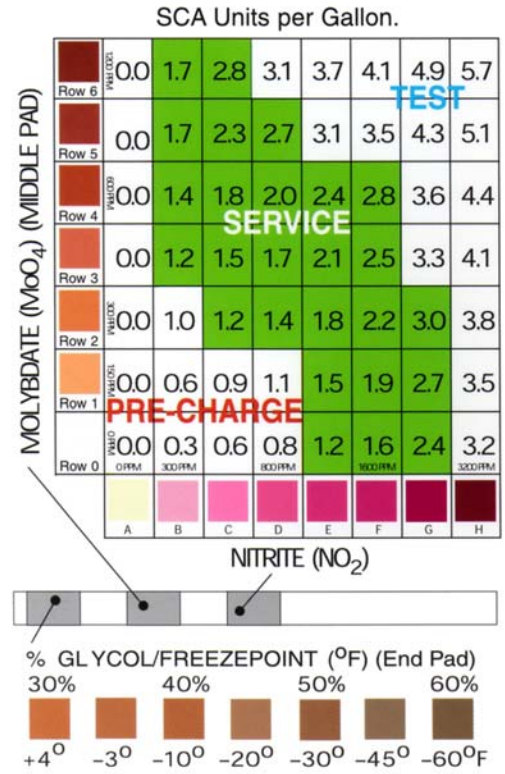
The ACU2050-3K and Rotunda Kit are complete with vial and syringe.

Material Data Safety Sheets for our products are available at: [www.acustrip.com/msds.html](http://www.acustrip.com/msds.html)

# Procedures for Non-Ford CTS-3

Test antifreeze coolant before maintenance is performed. The test strips should be used by the date on the packaging. For best results:

- Start with clean, dry hands and utensils.
- Run test in a well-lit area, natural light if possible.
- Collect coolant sample from the radiator or petcock. DO NOT collect from the coolant recovery or overflow system. Coolant must be between 50° F and 130° F when tested. Room temperature is preferred.
- Remove one strip from one packet. DO NOT touch the pads on the end of the strip. DISCARD STRIP IF NITRITE TEST PAD HAS TURNED BROWN.
- Dip strip in coolant sample for one second, remove, and shake strip briskly to remove excess liquid.
- 45 SECONDS after dipping strip compare and record results in the following order: (1) Compare FREEZEPOINT (end pad) to the color chart (see the color card or chart to the right) and record the result. For OAT coolants, a purple hue develops with the brown color development. This is an expected result. (2) Next compare MOLYBDATE (middle pad) to the color chart and record result (be sure to use the bottom row on the chart if the result is white). (3) Finally compare NITRITE test to the color chart and record result. NOTE: The color chart to the right is a reference - your computer monitor or printer might not print colors accurately.
- All three readings must be completed NO LATER THAN 75 SECONDS after dipping strip.
- It is okay to estimate a value BETWEEN color blocks, but if uncertain about the color match, pick the LOWER numbered block (for example, if nitrite color is not F, use column E).
- Determine where the MOLYBDATE level intersects the NITRITE level on the chart. The amount of SCA units per gallon in the cooling system is given where the MOLYBDATE row intersects the NITRITE column.
- For best results follow test times carefully. Use a stopwatch or clock with a sweep second hand. Comparing the test strips to the color chart too soon or too late may result in incorrect readings and improper treatment and could result in liner pitting and engine damage.
- All readings should be recorded on the truck maintenance record for future reference.



**Please Note:** Unlike the color chart on this page, the chart printed on the card or bottle accompanying your test strips may contain a blank (white) space between some of the color samples. The blank (white) space is meant to depict an intermediate blend of the two (upper and lower) corresponding color samples.

## Treatment Instructions (Not for ES Coolant)

- Below 1.2 units per gallon: Replace service filter and add 1 pint of DCA4 liquid per 4 gallons of coolant.
- 1.2 to 3 units per gallon: Continue to replace service coolant filter at each oil drain interval.
- Above 3 units per gallon: Do not replace service filter until SCA level falls below 3 units per gallon. Test at every subsequent oil drain interval.



### SAFETY WARNING: REMOVAL OF RADIATOR CAP IS DANGEROUS

Radiators are under pressure. Hot coolant under pressure can cause severe burns. Do not remove the radiator cap on a hot engine. Wait until the temperature is below 50° Celsius (120° Fahrenheit) before removing the cap. Failure to wait may result in personal injury from hot coolant spray or steam. Remove cap slowly to relieve all pressure.

Dispose of your used test strip with normal paper waste.  
Dispose of your used antifreeze coolant in accordance with local regulations.