

Diesel Technology: Introduction

NATEF Crosswalk

The following NATEF tasks (rev. 2004) are covered in this publication. The first column identifies the NATEF task by name and number. The second column identifies the exact location by unit number and job sheet number in this MAVCC publication.

NATEF Tasks	MAVCC Tasks
I. Diesel Engines D. Lubrication Systems Diagnosis and Repair	
I. D. 7.—Determine proper lubricant and perform oil and filter change	Unit 4–B, Job Sheet 4—Change oil and oil filter
I. Diesel Engines E. Cooling System Diagnosis and Repair	
I. E. 6.—Recover, flush, and refill with recommended coolant/additive package; bleed cooling system	Unit 4–B, Job Sheet 3—Clean a cooling system
V. Electrical/Electronic Systems B. Battery Diagnosis and Repair	
V. B. 1.—Perform battery load test; determine needed service.	Unit 1–C, Job Sheet 9—Perform a battery load test. Unit 1–C, Job Sheet 10—Perform a high-rate battery charge test.
V. B. 2.—Determine battery state of charge using an open circuit voltage tester.	Unit 1–C, Job Sheet 6—Test charge a conventional battery. Unit 1–C, Job Sheet 7—Test charge a sealed battery. Unit 1–C, Job Sheet 9—Perform a battery load test. Unit 1–C, Job Sheet 10—Perform a high-rate battery charge test.
V. B. 3.—Inspect, clean, and service battery; replace as needed.	Unit 1–C, Job Sheet 6—Test charge a conventional battery. Unit 1–C, Job Sheet 7—Test charge a sealed battery.
V. B. 4.—Inspect and clean battery boxes, mounts, and hold downs, repair or replace as needed.	Unit 1–C, Job Sheet 6—Test charge a conventional battery. Unit 1–C, Job Sheet 7—Test charge a sealed battery.
V. B. 5.—Charge battery using slow or fast charge methods as appropriate.	Unit 1–C, Job Sheet 8—Slow charge a battery.

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V. B. 6. Inspect, test, and clean battery cables and connectors; repair or replace as needed.	Unit 1–C, Job Sheet 6—Test charge a conventional battery. Unit 1–C, Job Sheet 7—Test charge a sealed battery.
V. B. 7. Jump start a vehicle using jumper cables and a booster battery using proper safety procedures.	Unit 1–C, Job Sheet 11—Emergency jump-start a vehicle.