Full download: http://manualplace.com/download/cat-793d-off-highway-trucks-training-machine-system/

CATERPILLAR

SERV7105-08 Vol. 8, No. 1 August 2005

SERVICE TRAINING

TECHNICAL PRESENTATION



793D (FDB) OFF-HIGHWAY TRUCKS INTRODUCTION

NEW PRODUCT INTRODUCTION (NPI)

793D OFF-HIGHWAY TRUCKS INTRODUCTION

CONTENT

This presentation provides new and different New Product Introduction (NPI) information for the 793D Off-highway Truck. This presentation may be used for self-paced and self-directed training.

OBJECTIVES

After learning the information in this presentation, the technician will be able to:

- 1. locate and identify the new components;
- 2. explain the operation of the new components in the systems; and
- 3. trace the flow of oil or air through the new systems.

REFERENCES

"793C Off-Highway Truck, (4AR, 4GZ, ATY) Comparison Information" Download "793C Update (4GZ, ATY) Off-Highway Truck" SERV1722

Estimated Time: 8 Hours

Visuals: 59 Handouts: 1

Form: SERV7105-08

Date: 08/05

TABLE OF CONTENTS

INTRODUCTION	.5
Similarities and Differences	.7
OPERATOR'S STATION	
No Significant Changes	
ENGINE	
Hydraulic Cooling Fan	13
REAR AXLE OIL COOLING AND FILTER SYSTEM1	8
STEERING SYSTEM2	22
BRAKE COOLING SYSTEM	30
AUTOMATIC RETARDER CONTROL (ARC) SYSTEM	10
SIGNIFICANT MAINTENANCE CHANGES	
No Significant Changes	
NEW TOOLING/SKILLS REQUIRED FOR SERVICE	
No Significant Changes	
CONCLUSION	50
HYDRAULIC SCHEMATIC COLOR CODE	51
NOTE: The Reference Materials have information on systems with no significant chang	es.

NOTES

Full download: http://manualplace.com/download/cat-793d-off-highway-trucks-training-machine-system/

SERV7105-08 - 5 - NPI

Vol. 8, No.1, 2005



© 2005 Caterpillar Inc.

1

INTRODUCTION

Shown is the right side of a 793D Truck. The 793D has a redesigned hydraulic system, an improved cooling package, an extended life power train, and a number of other changes to be covered in this presentation.

The machine weights, the payload ratings, the altitude de-rate, and the fuel efficiency will not change.

The following items are key new features:

- Increased speed
- Extra retarding
- Continuous rear axle filtration
- Horsepower increase
- Improved cooling package
- Extended wheel station life
- Hydraulically driven engine coolant fan
- Steering hydraulic system changes

NOTE: The "HYDRAULIC SCHEMATIC COLOR CODE" is located after the "CONCLUSION" of this presentation.