



# 767

## Nondestructive Test Manual

### The Boeing Company

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**767**  
**NONDESTRUCTIVE TEST MANUAL**

Revision No. 91  
Dec 15/2008

To: All holders of this Boeing Document D634T301

Attached is the current revision to the Boeing Nondestructive Test Manual.

The Nondestructive Test Manual (NDT) is furnished either as a printed manual, on microfilm, or digital products, or any combination of the three. This revision replaces all previous microfilm cartridges or digital products. All microfilm and digital products are reissued with all obsolete data deleted and all updated pages added.

For printed manuals, changes are indicated on the List of Effective Pages (LEP). The pages which are revised will be identified on the LEP by an R (Revised), A (Added), O (Overflow, i.e. changes to the document structure and/or page layout), or D (Deleted). Each page in the LEP is identified by Chapter-Section-Subject number, page number and page date.

Pages replaced or made obsolete by this revision should be removed and destroyed.

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**TRANSMITTAL LETTER**

D634T301

Page 1  
Dec 15/2008



## **767**

# **NONDESTRUCTIVE TEST MANUAL**

### TEMPORARY REVISIONS

Remove any Temporary Revisions that have a date earlier than the date of this revision.

Do not remove any Temporary Revisions (TRs) that have a date later than the date of this revision. TRs with a later date will be incorporated into the next revision of the manual (unless they are superseded by a subsequent TR).

A TR status report is sent with each TR. The TR status report has a list of all TRs that were sent for this manual during the last two revision cycles. At the top of the list is the date and time that the list was created.

When you have more than one TR, the TR status report with the latest date and time gives you the most current information.

## **TRANSMITTAL LETTER**



## 767 NONDESTRUCTIVE TEST MANUAL

### Location of Change

### Description of Change

#### PART 1

##### CHAPTER 51

51-01-00

Changed the reference standard to NDT procedure cross reference.

51-05-01

Changed "nonmetallic" to "metallic".

#### PART 4

##### CHAPTER 55

55-20-01

Added structures MRB number 55-484-00.

Added structures MRB number 55-538-00.

Delete the elevator assembly part numbers in the Notes section of Fig. 1.

55-20-02

Added structures MRB number 55-484-00.

Added structures MRB number 55-538-00.

Delete the elevator assembly part numbers in the Notes section of Fig. 1.

##### CHAPTER 57

57-20-01

Identified that the notch signal should be at 80% of full screen height instead of 100%.

57-20-02

Changed the screen illustrations in Fig. 4.

57-50-05

Changed the location of the arrow in Fig. 2.

#### PART 6

##### CHAPTER 53

53-00-14

Added Subject 53-00-14.

53-30-01

Changed the reference standard number from "194B" to "NDT194B".

53-30-02

Changed the reference standard number from "194B" to "NDT194B".

53-30-03

Changed the reference standard number from "194B" to "NDT194B".

53-50-12

Changed the paragraph reference.

Changed reference from "Part 6, 51-00-19" to "Paragraph 4."

##### CHAPTER 55

55-10-03

Changed the dimensions in flagnote 6 of Fig. 2.

##### CHAPTER 57

57-10-04

Added clarifications for paragraphs 4 thru 6.

Changed reference from "Figure 1" to "Part 6, 51-00-01"

57-20-08

Changed the paragraph references in flagnote 3 of Fig. 2.

## HIGHLIGHTS



**767**

## **NONDESTRUCTIVE TEST MANUAL**

### **Location of Change**

57-50-03

57-50-05

### **Description of Change**

Added reference to Part 4, 51-00-01, Fig. 4 for reference standard 126.

Added reference to Part 4, 51-00-01, Fig. 4 for reference standard 126.

## **HIGHLIGHTS**

D634T301

Page 2  
Dec 15/2008



# 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page                  | Date        | Subject/Page             | Date        | Subject/Page             | Date        |
|-------------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| TITLE PAGE                    |             | PART 1 - 51-00-01 (cont) |             | PART 1 - 51-01-00 (cont) |             |
| O 1                           | Dec 15/2008 | 3                        | May 15/2006 | O 35                     | Dec 15/2008 |
| 2                             | BLANK       | 4                        | May 15/2006 | O 36                     | Dec 15/2008 |
| TRANSMITTAL LETTER            |             | 5                        | May 15/2006 | O 37                     | Dec 15/2008 |
| O 1                           | Dec 15/2008 | 6                        | May 15/2006 | O 38                     | Dec 15/2008 |
| 2                             | Jan 15/2008 | PART 1 - 51-01-00        |             | O 39                     | Dec 15/2008 |
| HIGHLIGHTS                    |             | 1                        | Sep 15/2007 | O 40                     | Dec 15/2008 |
| O 1                           | Dec 15/2008 | 2                        | Sep 15/2007 | O 41                     | Dec 15/2008 |
| O 2                           | Dec 15/2008 | 3                        | Sep 15/2007 | R 42                     | Dec 15/2008 |
| EFFECTIVE PAGES               |             | 4                        | Apr 15/2008 | O 43                     | Dec 15/2008 |
| 1 thru 19                     | Dec 15/2008 | 5                        | Jan 15/2008 | O 44                     | Dec 15/2008 |
| 20                            | BLANK       | 6                        | Apr 15/2008 | O 45                     | Dec 15/2008 |
| REVISION RECORD               |             | 7                        | Apr 15/2008 | O 46                     | Dec 15/2008 |
| 1                             | May 15/2006 | 8                        | Apr 15/2008 | O 47                     | Dec 15/2008 |
| 2                             | May 15/2006 | 9                        | Apr 15/2008 | R 48                     | Dec 15/2008 |
| RECORD OF TEMPORARY REVISIONS |             | 10                       | Apr 15/2008 | PART 1 - 51-01-01        |             |
| 1                             | May 15/2006 | 11                       | Apr 15/2008 | 1                        | Sep 15/2007 |
| 2                             | May 15/2006 | 12                       | Apr 15/2008 | 2                        | May 15/2006 |
| TABLE OF CONTENTS             |             | 13                       | Apr 15/2008 | 3                        | May 15/2006 |
| 1                             | Jan 15/2007 | 14                       | Apr 15/2008 | 4                        | May 15/2006 |
| 2                             | BLANK       | 15                       | Apr 15/2008 | 5                        | May 15/2006 |
| INTRODUCTION                  |             | 16                       | Apr 15/2008 | 6                        | May 15/2006 |
| 1                             | Sep 15/2007 | 17                       | Apr 15/2008 | 7                        | May 15/2006 |
| 2                             | Sep 15/2007 | 18                       | Apr 15/2008 | 8                        | May 15/2006 |
| R 3                           | Dec 15/2008 | 19                       | Apr 15/2008 | 9                        | May 15/2006 |
| R 4                           | Dec 15/2008 | 20                       | Apr 15/2008 | 10                       | May 15/2006 |
| O 5                           | Dec 15/2008 | R 21                     | Dec 15/2008 | 11                       | May 15/2006 |
| O 6                           | Dec 15/2008 | O 22                     | Dec 15/2008 | 12                       | May 15/2006 |
| O 7                           | Dec 15/2008 | O 23                     | Dec 15/2008 | 13                       | May 15/2006 |
| O 8                           | Dec 15/2008 | R 24                     | Dec 15/2008 | 14                       | May 15/2006 |
| O 9                           | Dec 15/2008 | R 25                     | Dec 15/2008 | 15                       | Jan 15/2007 |
| O 10                          | Dec 15/2008 | O 26                     | Dec 15/2008 | 16                       | Sep 15/2006 |
| O 11                          | Dec 15/2008 | O 27                     | Dec 15/2008 | 17                       | Sep 15/2006 |
| 12                            | Sep 15/2007 | O 28                     | Dec 15/2008 | 18                       | May 15/2006 |
| PART 1 - FRONTMATTER          |             | O 29                     | Dec 15/2008 | 19                       | May 15/2006 |
| 1                             | Aug 15/2008 | O 30                     | Dec 15/2008 | 20                       | May 15/2006 |
| 2                             | Apr 15/2008 | O 31                     | Dec 15/2008 | PART 1 - 51-01-02        |             |
| PART 1 - 51-00-01             |             | O 32                     | Dec 15/2008 | 1                        | May 15/2006 |
| 1                             | May 15/2006 | O 33                     | Dec 15/2008 | 2                        | May 15/2006 |
| 2                             | Jan 15/2008 | R 34                     | Dec 15/2008 | 3                        | Jan 15/2007 |

A = Added, R = Revised, D = Deleted, O = Overflow

## EFFECTIVE PAGES



## 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page             | Date        |
|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| PART 1 - 51-01-02 (cont) |             | PART 1 - 51-04-00 (cont) |             | PART 1 - 51-11-01 (cont) |             |
| 4                        | Jan 15/2007 | 13                       | May 15/2006 | 12                       | Aug 15/2008 |
| 5                        | Jan 15/2007 | 14                       | May 15/2006 | 13                       | Aug 15/2008 |
| 6                        | BLANK       | 15                       | May 15/2006 | 14                       | Aug 15/2008 |
| PART 1 - 51-01-03        |             | 16                       | May 15/2006 | PART 2 - FRONTMATTER     |             |
| 1                        | May 15/2006 | 17                       | May 15/2006 | 1                        | May 15/2006 |
| 2                        | May 15/2006 | 18                       | May 15/2006 | 2                        | BLANK       |
| 3                        | Jan 15/2007 | 19                       | May 15/2006 | PART 2 - 51-00-01        |             |
| 4                        | Jan 15/2007 | 20                       | BLANK       | 1                        | May 15/2006 |
| 5                        | Jan 15/2007 | PART 1 - 51-05-01        |             | 2                        | May 15/2006 |
| 6                        | Jan 15/2007 | R 1                      | Dec 15/2008 | 3                        | May 15/2006 |
| PART 1 - 51-01-04        |             | 2                        | May 15/2006 | 4                        | May 15/2006 |
| 1                        | Jan 15/2008 | 3                        | May 15/2006 | 5                        | Jan 15/2007 |
| 2                        | May 15/2006 | 4                        | May 15/2006 | 6                        | Jan 15/2007 |
| 3                        | May 15/2006 | 5                        | May 15/2006 | PART 2 - 51-00-02        |             |
| 4                        | May 15/2006 | 6                        | BLANK       | 1                        | May 15/2006 |
| 5                        | May 15/2006 | PART 1 - 51-06-00        |             | 2                        | May 15/2006 |
| 6                        | May 15/2006 | 1                        | May 15/2006 | 3                        | Jan 15/2007 |
| PART 1 - 51-02-00        |             | 2                        | May 15/2006 | 4                        | Jan 15/2007 |
| 1                        | May 15/2006 | 3                        | May 15/2006 | 5                        | Jan 15/2007 |
| 2                        | May 15/2006 | 4                        | Sep 15/2007 | 6                        | Jan 15/2007 |
| 3                        | May 15/2006 | 5                        | May 15/2006 | 7                        | Jan 15/2007 |
| 4                        | May 15/2006 | 6                        | May 15/2006 | 8                        | Jan 15/2007 |
| 5                        | May 15/2006 | 7                        | May 15/2006 | 9                        | Jan 15/2007 |
| 6                        | May 15/2006 | 8                        | BLANK       | 10                       | BLANK       |
| 7                        | May 15/2006 | PART 1 - 51-06-01        |             | PART 2 - 51-00-03        |             |
| 8                        | May 15/2006 | 1                        | May 15/2006 | 1                        | May 15/2006 |
| PART 1 - 51-04-00        |             | 2                        | Aug 15/2008 | 2                        | May 15/2006 |
| 1                        | May 15/2006 | PART 1 - 51-11-01        |             | 3                        | Jan 15/2007 |
| 2                        | May 15/2006 | 1                        | Aug 15/2008 | 4                        | Jan 15/2007 |
| 3                        | May 15/2006 | 2                        | Aug 15/2008 | PART 2 - 55-10-01        |             |
| 4                        | May 15/2006 | 3                        | Aug 15/2008 | 1                        | May 15/2006 |
| 5                        | May 15/2006 | 4                        | Aug 15/2008 | 2                        | May 15/2006 |
| 6                        | May 15/2006 | 5                        | Aug 15/2008 | 3                        | May 15/2006 |
| 7                        | May 15/2006 | 6                        | Aug 15/2008 | 4                        | May 15/2006 |
| 8                        | May 15/2006 | 7                        | Aug 15/2008 | 5                        | May 15/2006 |
| 9                        | May 15/2006 | 8                        | Aug 15/2008 | 6                        | May 15/2006 |
| 10                       | May 15/2006 | 9                        | Aug 15/2008 | 7                        | May 15/2006 |
| 11                       | May 15/2006 | 10                       | Aug 15/2008 | 8                        | May 15/2006 |
| 12                       | May 15/2006 | 11                       | Aug 15/2008 |                          |             |

A = Added, R = Revised, D = Deleted, O = Overflow

## EFFECTIVE PAGES



**767**  
**NONDESTRUCTIVE TEST MANUAL**

| Subject/Page         | Date        | Subject/Page             | Date        | Subject/Page      | Date        |
|----------------------|-------------|--------------------------|-------------|-------------------|-------------|
| PART 2 - 55-40-01    |             | PART 4 - 32-10-01 (cont) |             | PART 4 - 32-10-05 |             |
| 1                    | Aug 15/2008 | 3                        | May 15/2006 | 1                 | Aug 15/2008 |
| 2                    | Aug 15/2008 | 4                        | May 15/2006 | 2                 | Aug 15/2008 |
| 3                    | May 15/2006 | 5                        | May 15/2006 | 3                 | Aug 15/2008 |
| 4                    | BLANK       | 6                        | May 15/2006 | 4                 | Aug 15/2008 |
| PART 4 - FRONTMATTER |             | 7                        | May 15/2006 | 5                 | Aug 15/2008 |
| 1                    | May 15/2007 | 8                        | May 15/2006 | 6                 | Aug 15/2008 |
| 2                    | Aug 15/2008 | PART 4 - 32-10-02        |             | 7                 | Aug 15/2008 |
| 3                    | May 15/2007 | 1                        | May 15/2006 | 8                 | Aug 15/2008 |
| 4                    | Apr 15/2008 | 2                        | May 15/2006 | PART 4 - 32-10-06 |             |
| PART 4 - 27-20-01    |             | 3                        | May 15/2006 | 1                 | Aug 15/2008 |
| 1                    | Jan 15/2007 | 4                        | May 15/2006 | 2                 | Aug 15/2008 |
| 2                    | Jan 15/2007 | 5                        | May 15/2006 | 3                 | Aug 15/2008 |
| 3                    | Jan 15/2007 | 6                        | May 15/2006 | 4                 | Aug 15/2008 |
| 4                    | Jan 15/2007 | 7                        | May 15/2006 | 5                 | Aug 15/2008 |
| PART 4 - 27-40-01    |             | 8                        | BLANK       | 6                 | Aug 15/2008 |
| 1                    | Jan 15/2008 | PART 4 - 32-10-03        |             | 7                 | Aug 15/2008 |
| 2                    | May 15/2006 | 1                        | May 15/2006 | 8                 | BLANK       |
| 3                    | May 15/2006 | 2                        | May 15/2006 | PART 4 - 32-20-01 |             |
| 4                    | May 15/2006 | 3                        | May 15/2006 | 1                 | Aug 15/2008 |
| 5                    | May 15/2006 | 4                        | May 15/2006 | 2                 | Aug 15/2008 |
| 6                    | May 15/2006 | 5                        | May 15/2006 | 3                 | Aug 15/2008 |
| 7                    | May 15/2006 | 6                        | May 15/2006 | 4                 | Aug 15/2008 |
| 8                    | BLANK       | 7                        | May 15/2006 | 5                 | Aug 15/2008 |
| PART 4 - 27-80-01    |             | 8                        | BLANK       | 6                 | Aug 15/2008 |
| 1                    | Aug 15/2008 | PART 4 - 32-10-04        |             | PART 4 - 32-20-02 |             |
| 2                    | Aug 15/2008 | 1                        | May 15/2006 | 1                 | May 15/2006 |
| 3                    | Aug 15/2008 | 2                        | May 15/2006 | 2                 | May 15/2006 |
| 4                    | Aug 15/2008 | 3                        | May 15/2006 | 3                 | May 15/2006 |
| 5                    | Aug 15/2008 | 4                        | May 15/2006 | 4                 | May 15/2006 |
| 6                    | Aug 15/2008 | 5                        | May 15/2006 | 5                 | May 15/2006 |
| 7                    | Aug 15/2008 | 6                        | May 15/2006 | 6                 | BLANK       |
| 8                    | Aug 15/2008 | 7                        | May 15/2006 | PART 4 - 51-00-01 |             |
| 9                    | Aug 15/2008 | 8                        | May 15/2006 | 1                 | May 15/2007 |
| 10                   | Aug 15/2008 | 9                        | May 15/2006 | 2                 | May 15/2007 |
| 11                   | Aug 15/2008 | 10                       | May 15/2006 | 3                 | May 15/2007 |
| 12                   | Aug 15/2008 | 11                       | May 15/2006 | 4                 | May 15/2007 |
| PART 4 - 32-10-01    |             | 12                       | May 15/2006 | 5                 | May 15/2007 |
| 1                    | May 15/2006 | 13                       | May 15/2006 | 6                 | May 15/2007 |
| 2                    | May 15/2006 | 14                       | May 15/2006 | 7                 | May 15/2007 |

A = Added, R = Revised, D = Deleted, O = Overflow

**EFFECTIVE PAGES**



## 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page             | Date        | Subject/Page                    | Date        | Subject/Page             | Date        |
|--------------------------|-------------|---------------------------------|-------------|--------------------------|-------------|
| PART 4 - 51-00-01 (cont) |             | PART 4 - 51-00-06               |             | PART 4 - 52-30-01 (cont) |             |
| 8                        | BLANK       | 1                               | May 15/2007 | 2                        | May 15/2006 |
| PART 4 - 51-00-02        |             | 2                               | May 15/2007 | 3                        | May 15/2006 |
| 1                        | May 15/2007 | 3                               | May 15/2007 | 4                        | May 15/2006 |
| 2                        | May 15/2007 | 4                               | May 15/2007 | 5                        | May 15/2006 |
| 3                        | May 15/2007 | 5                               | May 15/2007 | 6                        | May 15/2006 |
| 4                        | May 15/2007 | 6                               | May 15/2007 | 7                        | May 15/2006 |
| 5                        | May 15/2007 | 7                               | May 15/2007 | 8                        | May 15/2006 |
| 6                        | May 15/2007 | 8                               | BLANK       | 9                        | May 15/2006 |
| 7                        | May 15/2007 | PART 4 - 51-00-10 - Procedure 1 |             | 10                       | May 15/2006 |
| 8                        | May 15/2007 | 1                               | Jan 15/2007 | PART 4 - 52-30-02        |             |
| 9                        | May 15/2007 | 2                               | Jan 15/2007 | 1                        | May 15/2007 |
| 10                       | BLANK       | 3                               | Jan 15/2008 | 2                        | May 15/2007 |
| PART 4 - 51-00-03        |             | 4                               | Jan 15/2008 | 3                        | May 15/2007 |
| 1                        | May 15/2007 | 5                               | Jan 15/2007 | 4                        | May 15/2007 |
| 2                        | May 15/2007 | 6                               | Jan 15/2007 | 5                        | May 15/2007 |
| 3                        | May 15/2007 | 7                               | Jan 15/2007 | 6                        | May 15/2007 |
| 4                        | May 15/2007 | 8                               | Jan 15/2007 | PART 4 - 52-30-03        |             |
| 5                        | May 15/2007 | 9                               | Jan 15/2007 | 1                        | May 15/2007 |
| 6                        | May 15/2007 | 10                              | Jan 15/2007 | 2                        | May 15/2007 |
| 7                        | May 15/2007 | 11                              | Jan 15/2007 | 3                        | Aug 15/2008 |
| 8                        | May 15/2007 | 12                              | BLANK       | 4                        | May 15/2007 |
| 9                        | May 15/2007 | PART 4 - 51-00-10 - Procedure 2 |             | 5                        | May 15/2007 |
| 10                       | May 15/2007 | 1                               | Jan 15/2007 | 6                        | May 15/2007 |
| 11                       | May 15/2007 | 2                               | Jan 15/2007 | PART 4 - 53-00-01        |             |
| 12                       | BLANK       | 3                               | Jan 15/2008 | 1                        | Aug 15/2008 |
| PART 4 - 51-00-04        |             | 4                               | Jan 15/2007 | 2                        | Aug 15/2008 |
| 1                        | May 15/2006 | PART 4 - 51-40-01               |             | 3                        | Aug 15/2008 |
| 2                        | May 15/2006 | 1                               | May 15/2006 | 4                        | May 15/2007 |
| 3                        | May 15/2006 | 2                               | May 15/2006 | 5                        | Jan 15/2007 |
| 4                        | May 15/2006 | 3                               | May 15/2006 | 6                        | Jan 15/2007 |
| PART 4 - 51-00-05        |             | 4                               | May 15/2006 | 7                        | Sep 15/2006 |
| 1                        | May 15/2007 | 5                               | May 15/2006 | 8                        | Sep 15/2006 |
| 2                        | May 15/2007 | 6                               | May 15/2006 | 9                        | Sep 15/2006 |
| 3                        | May 15/2007 | 7                               | May 15/2006 | 10                       | Sep 15/2006 |
| 4                        | May 15/2007 | 8                               | May 15/2006 | 11                       | Sep 15/2006 |
| 5                        | May 15/2007 | 9                               | May 15/2006 | 12                       | BLANK       |
| 6                        | May 15/2007 | 10                              | BLANK       | PART 4 - 53-00-02        |             |
| 7                        | May 15/2007 | PART 4 - 52-30-01               |             | 1                        | Aug 15/2008 |
| 8                        | May 15/2007 | 1                               | May 15/2006 | 2                        | Aug 15/2008 |

A = Added, R = Revised, D = Deleted, O = Overflow

## EFFECTIVE PAGES



**767**  
**NONDESTRUCTIVE TEST MANUAL**

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page      | Date        |
|--------------------------|-------------|--------------------------|-------------|-------------------|-------------|
| PART 4 - 53-00-02 (cont) |             | PART 4 - 53-10-01 (cont) |             | PART 4 - 53-50-02 |             |
| 3                        | Aug 15/2008 | 7                        | May 15/2006 | 1                 | May 15/2006 |
| 4                        | Aug 15/2008 | 8                        | BLANK       | 2                 | May 15/2006 |
| 5                        | Aug 15/2008 | PART 4 - 53-10-02        |             | 3                 | May 15/2006 |
| 6                        | Aug 15/2008 | 1                        | May 15/2006 | 4                 | May 15/2006 |
| 7                        | Aug 15/2008 | 2                        | May 15/2006 | 5                 | May 15/2006 |
| 8                        | Aug 15/2008 | 3                        | May 15/2006 | 6                 | May 15/2006 |
| 9                        | Aug 15/2008 | 4                        | Jan 15/2007 | 7                 | May 15/2006 |
| 10                       | Aug 15/2008 | 5                        | May 15/2006 | 8                 | May 15/2006 |
| 11                       | Aug 15/2008 | 6                        | May 15/2006 | 9                 | May 15/2006 |
| 12                       | Aug 15/2008 | PART 4 - 53-10-03        |             | 10                | BLANK       |
| 13                       | Aug 15/2008 | 1                        | May 15/2007 | PART 4 - 53-50-03 |             |
| 14                       | Aug 15/2008 | 2                        | May 15/2007 | 1                 | Sep 15/2007 |
| 15                       | Aug 15/2008 | 3                        | May 15/2007 | 2                 | Jan 15/2007 |
| 16                       | Aug 15/2008 | 4                        | May 15/2007 | 3                 | Jan 15/2007 |
| 17                       | Aug 15/2008 | 5                        | May 15/2007 | 4                 | Sep 15/2006 |
| 18                       | Aug 15/2008 | 6                        | May 15/2007 | 5                 | Sep 15/2006 |
| 19                       | Aug 15/2008 | 7                        | May 15/2007 | 6                 | Sep 15/2006 |
| 20                       | Aug 15/2008 | 8                        | BLANK       | 7                 | Jan 15/2007 |
| 21                       | Aug 15/2008 | PART 4 - 53-30-01        |             | 8                 | Jan 15/2007 |
| 22                       | Aug 15/2008 | 1                        | May 15/2006 | 9                 | Sep 15/2006 |
| 23                       | Aug 15/2008 | 2                        | May 15/2006 | 10                | Sep 15/2006 |
| 24                       | Aug 15/2008 | 3                        | May 15/2006 | PART 4 - 53-50-04 |             |
| 25                       | Aug 15/2008 | 4                        | May 15/2006 | 1                 | Sep 15/2006 |
| 26                       | Aug 15/2008 | 5                        | May 15/2006 | 2                 | Sep 15/2006 |
| 27                       | Aug 15/2008 | 6                        | May 15/2006 | 3                 | Sep 15/2006 |
| 28                       | Aug 15/2008 | 7                        | May 15/2006 | 4                 | Sep 15/2006 |
| 29                       | Aug 15/2008 | 8                        | BLANK       | 5                 | Sep 15/2006 |
| 30                       | Aug 15/2008 | PART 4 - 53-50-01        |             | 6                 | Sep 15/2006 |
| 31                       | Aug 15/2008 | 1                        | Apr 15/2008 | 7                 | Sep 15/2006 |
| 32                       | Aug 15/2008 | 2                        | Apr 15/2008 | 8                 | Sep 15/2006 |
| 33                       | Aug 15/2008 | 3                        | Apr 15/2008 | PART 4 - 53-50-05 |             |
| 34                       | BLANK       | 4                        | Apr 15/2008 | 1                 | May 15/2006 |
| PART 4 - 53-10-01        |             | 5                        | Apr 15/2008 | 2                 | Jan 15/2008 |
| 1                        | May 15/2006 | 6                        | Apr 15/2008 | 3                 | May 15/2006 |
| 2                        | May 15/2006 | 7                        | Apr 15/2008 | 4                 | May 15/2006 |
| 3                        | May 15/2006 | 8                        | Apr 15/2008 | 5                 | May 15/2006 |
| 4                        | May 15/2006 | 9                        | Apr 15/2008 | 6                 | Jan 15/2007 |
| 5                        | May 15/2006 | 10                       | BLANK       | 7                 | Apr 15/2008 |
| 6                        | May 15/2006 |                          |             | 8                 | May 15/2006 |

A = Added, R = Revised, D = Deleted, O = Overflow

**EFFECTIVE PAGES**



## 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page      | Date        |
|--------------------------|-------------|--------------------------|-------------|-------------------|-------------|
| PART 4 - 53-50-05 (cont) |             | PART 4 - 54-50-01 (cont) |             | PART 4 - 54-50-06 |             |
| 9                        | May 15/2006 | 8                        | May 15/2006 | 1                 | Sep 15/2006 |
| 10                       | Jan 15/2007 | PART 4 - 54-50-02        |             | 2                 | Sep 15/2006 |
| 11                       | Jan 15/2007 | 1                        | May 15/2006 | 3                 | Sep 15/2006 |
| 12                       | BLANK       | 2                        | May 15/2006 | 4                 | Sep 15/2006 |
| PART 4 - 53-60-01        |             | 3                        | May 15/2006 | 5                 | Sep 15/2006 |
| 1                        | May 15/2006 | 4                        | May 15/2006 | 6                 | Sep 15/2006 |
| 2                        | May 15/2006 | 5                        | May 15/2006 | 7                 | Sep 15/2006 |
| 3                        | May 15/2006 | 6                        | May 15/2006 | 8                 | Sep 15/2006 |
| 4                        | May 15/2006 | 7                        | May 15/2006 | 9                 | Sep 15/2006 |
| 5                        | May 15/2006 | 8                        | May 15/2006 | 10                | Sep 15/2006 |
| 6                        | May 15/2006 | PART 4 - 54-50-03        |             | 11                | Sep 15/2006 |
| PART 4 - 53-80-01        |             | 1                        | Aug 15/2008 | 12                | Sep 15/2006 |
| 1                        | May 15/2006 | 2                        | Aug 15/2008 | 13                | Sep 15/2006 |
| 2                        | May 15/2006 | 3                        | Aug 15/2008 | 14                | Sep 15/2006 |
| 3                        | May 15/2006 | 4                        | Aug 15/2008 | 15                | Sep 15/2006 |
| 4                        | May 15/2006 | 5                        | Aug 15/2008 | 16                | Sep 15/2006 |
| 5                        | May 15/2006 | 6                        | Aug 15/2008 | 17                | Sep 15/2006 |
| 6                        | May 15/2006 | 7                        | Aug 15/2008 | 18                | Sep 15/2006 |
| 7                        | May 15/2006 | 8                        | Aug 15/2008 | 19                | Sep 15/2006 |
| 8                        | BLANK       | 9                        | Aug 15/2008 | 20                | Sep 15/2006 |
| PART 4 - 53-80-02        |             | 10                       | Aug 15/2008 | 21                | Sep 15/2006 |
| 1                        | Sep 15/2006 | 11                       | Aug 15/2008 | 22                | Sep 15/2006 |
| 2                        | Sep 15/2006 | 12                       | Aug 15/2008 | 23                | Sep 15/2006 |
| 3                        | Sep 15/2006 | 13                       | Aug 15/2008 | 24                | BLANK       |
| 4                        | Sep 15/2006 | 14                       | BLANK       | PART 4 - 55-10-01 |             |
| 5                        | Sep 15/2006 | PART 4 - 54-50-05        |             | 1                 | May 15/2006 |
| 6                        | Sep 15/2006 | 1                        | Sep 15/2006 | 2                 | May 15/2006 |
| 7                        | Sep 15/2006 | 2                        | May 15/2006 | 3                 | May 15/2006 |
| 8                        | Sep 15/2006 | 3                        | May 15/2006 | 4                 | May 15/2006 |
| 9                        | Sep 15/2006 | 4                        | May 15/2006 | 5                 | May 15/2006 |
| 10                       | BLANK       | 5                        | Jan 15/2007 | 6                 | BLANK       |
| PART 4 - 54-50-01        |             | 6                        | Jan 15/2007 | PART 4 - 55-10-02 |             |
| 1                        | May 15/2006 | 7                        | May 15/2006 | 1                 | Apr 15/2008 |
| 2                        | May 15/2006 | 8                        | May 15/2006 | 2                 | Apr 15/2008 |
| 3                        | May 15/2006 | 9                        | May 15/2006 | 3                 | Apr 15/2008 |
| 4                        | May 15/2006 | 10                       | Jan 15/2007 | 4                 | Apr 15/2008 |
| 5                        | May 15/2006 | 11                       | May 15/2006 | 5                 | Apr 15/2008 |
| 6                        | May 15/2006 | 12                       | BLANK       | 6                 | Apr 15/2008 |
| 7                        | May 15/2006 |                          |             | 7                 | Apr 15/2008 |

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## EFFECTIVE PAGES



**767**  
**NONDESTRUCTIVE TEST MANUAL**

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page             | Date        |
|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| PART 4 - 55-10-02 (cont) |             | PART 4 - 55-20-02 (cont) |             | PART 4 - 55-40-02 (cont) |             |
| 8                        | Apr 15/2008 | 13                       | May 15/2006 | 11                       | May 15/2006 |
| PART 4 - 55-10-03        |             | 14                       | May 15/2006 | 12                       | May 15/2006 |
| 1                        | May 15/2006 | PART 4 - 55-20-03        |             | 13                       | May 15/2006 |
| 2                        | May 15/2006 | 1                        | May 15/2006 | 14                       | May 15/2006 |
| 3                        | May 15/2006 | 2                        | May 15/2006 | PART 4 - 55-40-03        |             |
| 4                        | May 15/2006 | 3                        | May 15/2006 | 1                        | May 15/2006 |
| 5                        | May 15/2006 | 4                        | May 15/2006 | 2                        | May 15/2006 |
| 6                        | BLANK       | 5                        | May 15/2006 | 3                        | May 15/2006 |
| PART 4 - 55-10-04        |             | 6                        | May 15/2006 | 4                        | Jan 15/2008 |
| 1                        | May 15/2006 | 7                        | May 15/2006 | 5                        | May 15/2006 |
| 2                        | May 15/2006 | 8                        | May 15/2006 | 6                        | May 15/2006 |
| 3                        | May 15/2006 | 9                        | May 15/2006 | 7                        | May 15/2006 |
| 4                        | May 15/2006 | 10                       | May 15/2006 | 8                        | May 15/2006 |
| 5                        | May 15/2006 | 11                       | May 15/2006 | 9                        | May 15/2006 |
| 6                        | May 15/2006 | 12                       | May 15/2006 | 10                       | May 15/2006 |
| 7                        | May 15/2006 | 13                       | May 15/2006 | 11                       | May 15/2006 |
| 8                        | May 15/2006 | 14                       | May 15/2006 | 12                       | May 15/2006 |
| PART 4 - 55-20-01        |             | 15                       | May 15/2006 | 13                       | May 15/2006 |
| R 1                      | Dec 15/2008 | 16                       | May 15/2006 | 14                       | May 15/2006 |
| R 2                      | Dec 15/2008 | PART 4 - 55-40-01        |             | 15                       | May 15/2006 |
| R 3                      | Dec 15/2008 | 1                        | May 15/2006 | 16                       | BLANK       |
| 4                        | May 15/2006 | 2                        | May 15/2006 | PART 4 - 57-10-01        |             |
| 5                        | May 15/2006 | 3                        | May 15/2006 | 1                        | May 15/2006 |
| 6                        | May 15/2006 | 4                        | May 15/2006 | 2                        | May 15/2006 |
| 7                        | May 15/2006 | 5                        | May 15/2006 | 3                        | May 15/2006 |
| 8                        | BLANK       | 6                        | May 15/2006 | 4                        | Sep 15/2006 |
| PART 4 - 55-20-02        |             | 7                        | May 15/2006 | 5                        | May 15/2006 |
| R 1                      | Dec 15/2008 | 8                        | BLANK       | 6                        | May 15/2006 |
| R 2                      | Dec 15/2008 | PART 4 - 55-40-02        |             | 7                        | May 15/2006 |
| 3                        | May 15/2006 | 1                        | May 15/2006 | 8                        | BLANK       |
| 4                        | May 15/2006 | 2                        | May 15/2006 | PART 4 - 57-10-02        |             |
| 5                        | May 15/2006 | 3                        | May 15/2006 | 1                        | Apr 15/2008 |
| R 6                      | Dec 15/2008 | 4                        | May 15/2006 | 2                        | Apr 15/2008 |
| 7                        | May 15/2006 | 5                        | May 15/2006 | 3                        | Apr 15/2008 |
| 8                        | May 15/2006 | 6                        | May 15/2006 | 4                        | Apr 15/2008 |
| 9                        | May 15/2006 | 7                        | May 15/2006 | 5                        | Apr 15/2008 |
| 10                       | May 15/2006 | 8                        | May 15/2006 | 6                        | Apr 15/2008 |
| 11                       | May 15/2006 | 9                        | May 15/2006 | PART 4 - 57-10-03        |             |
| 12                       | May 15/2006 | 10                       | May 15/2006 | 1                        | May 15/2006 |

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**EFFECTIVE PAGES**



## 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page             | Date        |
|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| PART 4 - 57-10-03 (cont) |             | PART 4 - 57-20-04 (cont) |             | PART 4 - 57-50-01 (cont) |             |
| 2                        | May 15/2006 | 5                        | Apr 15/2008 | 3                        | Sep 15/2006 |
| 3                        | May 15/2006 | 6                        | Apr 15/2008 | 4                        | Sep 15/2006 |
| 4                        | May 15/2006 | 7                        | Apr 15/2008 | 5                        | Sep 15/2006 |
| 5                        | May 15/2006 | 8                        | Apr 15/2008 | 6                        | BLANK       |
| 6                        | May 15/2006 | 9                        | Apr 15/2008 | PART 4 - 57-50-02        |             |
| 7                        | May 15/2006 | 10                       | Apr 15/2008 | 1                        | Sep 15/2006 |
| 8                        | May 15/2006 | PART 4 - 57-40-01        |             | 2                        | Aug 15/2008 |
| 9                        | May 15/2006 | 1                        | Aug 15/2008 | 3                        | Sep 15/2006 |
| 10                       | May 15/2006 | 2                        | Aug 15/2008 | 4                        | Sep 15/2006 |
| PART 4 - 57-20-01        |             | 3                        | Aug 15/2008 | 5                        | Sep 15/2006 |
| 1                        | May 15/2006 | 4                        | Aug 15/2008 | 6                        | Sep 15/2006 |
| R 2                      | Dec 15/2008 | 5                        | Aug 15/2008 | 7                        | Sep 15/2006 |
| 3                        | May 15/2006 | 6                        | Aug 15/2008 | 8                        | Sep 15/2006 |
| 4                        | May 15/2006 | 7                        | Aug 15/2008 | 9                        | Sep 15/2006 |
| 5                        | May 15/2006 | 8                        | Aug 15/2008 | 10                       | Sep 15/2006 |
| 6                        | BLANK       | 9                        | Aug 15/2008 | PART 4 - 57-50-03        |             |
| PART 4 - 57-20-02        |             | 10                       | Aug 15/2008 | 1                        | Sep 15/2006 |
| 1                        | May 15/2006 | 11                       | Aug 15/2008 | 2                        | Sep 15/2006 |
| 2                        | May 15/2006 | 12                       | Aug 15/2008 | 3                        | Sep 15/2006 |
| 3                        | May 15/2006 | 13                       | Aug 15/2008 | 4                        | Sep 15/2006 |
| 4                        | May 15/2006 | 14                       | Aug 15/2008 | 5                        | Sep 15/2006 |
| 5                        | May 15/2006 | 15                       | Aug 15/2008 | 6                        | Sep 15/2006 |
| 6                        | Sep 15/2006 | 16                       | Aug 15/2008 | 7                        | Sep 15/2006 |
| R 7                      | Dec 15/2008 | 17                       | Aug 15/2008 | 8                        | Jan 15/2008 |
| 8                        | BLANK       | 18                       | BLANK       | 9                        | Sep 15/2006 |
| PART 4 - 57-20-03        |             | PART 4 - 57-40-02        |             | 10                       | Sep 15/2006 |
| 1                        | May 15/2006 | 1                        | May 15/2006 | 11                       | Sep 15/2006 |
| 2                        | May 15/2006 | 2                        | May 15/2006 | 12                       | Sep 15/2007 |
| 3                        | May 15/2006 | 3                        | May 15/2006 | 13                       | Sep 15/2006 |
| 4                        | May 15/2006 | 4                        | May 15/2006 | 14                       | Sep 15/2006 |
| 5                        | Jan 15/2008 | 5                        | May 15/2006 | 15                       | Sep 15/2006 |
| 6                        | May 15/2006 | 6                        | May 15/2006 | 16                       | Sep 15/2006 |
| 7                        | May 15/2006 | 7                        | May 15/2006 | 17                       | Sep 15/2006 |
| 8                        | BLANK       | 8                        | May 15/2006 | 18                       | Sep 15/2006 |
| PART 4 - 57-20-04        |             | 9                        | May 15/2006 | PART 4 - 57-50-04        |             |
| 1                        | Apr 15/2008 | 10                       | BLANK       | 1                        | Sep 15/2006 |
| 2                        | Apr 15/2008 | PART 4 - 57-50-01        |             | 2                        | Sep 15/2006 |
| 3                        | Apr 15/2008 | 1                        | Sep 15/2006 | 3                        | Sep 15/2006 |
| 4                        | Apr 15/2008 | 2                        | Sep 15/2006 | 4                        | Sep 15/2006 |

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## EFFECTIVE PAGES



## 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page             | Date        |
|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| PART 4 - 57-50-04 (cont) |             | PART 4 - 57-50-07 (cont) |             | PART 6 - 22-10-01 (cont) |             |
| 5                        | Sep 15/2006 | 3                        | Sep 15/2006 | 4                        | May 15/2006 |
| 6                        | Sep 15/2006 | 4                        | Sep 15/2006 | 5                        | May 15/2006 |
| 7                        | Sep 15/2006 | 5                        | Sep 15/2006 | 6                        | May 15/2006 |
| 8                        | Sep 15/2006 | 6                        | Sep 15/2006 | 7                        | May 15/2006 |
| 9                        | Sep 15/2006 | 7                        | Sep 15/2006 | 8                        | May 15/2006 |
| 10                       | Sep 15/2006 | 8                        | Sep 15/2006 | 9                        | May 15/2006 |
| 11                       | Sep 15/2006 | PART 4 - 57-50-08        |             | 10                       | May 15/2006 |
| 12                       | Sep 15/2006 | 1                        | Jan 15/2008 | 11                       | May 15/2006 |
| 13                       | Sep 15/2006 | 2                        | Jan 15/2008 | 12                       | May 15/2006 |
| 14                       | Sep 15/2006 | 3                        | Sep 15/2006 | 13                       | May 15/2006 |
| 15                       | Sep 15/2006 | 4                        | Sep 15/2006 | 14                       | BLANK       |
| 16                       | BLANK       | 5                        | Sep 15/2006 | PART 6 - 32-10-01        |             |
| PART 4 - 57-50-05        |             | 6                        | Jan 15/2008 | 1                        | May 15/2006 |
| 1                        | Sep 15/2006 | 7                        | Sep 15/2006 | 2                        | May 15/2006 |
| 2                        | Sep 15/2006 | 8                        | Sep 15/2006 | 3                        | May 15/2006 |
| 3                        | Sep 15/2006 | PART 4 - 71-20-01        |             | 4                        | May 15/2006 |
| 4                        | Sep 15/2006 | 1                        | May 15/2006 | 5                        | May 15/2006 |
| 5                        | Sep 15/2006 | 2                        | May 15/2006 | 6                        | May 15/2006 |
| 6                        | Sep 15/2006 | 3                        | May 15/2006 | 7                        | May 15/2006 |
| R 7                      | Dec 15/2008 | 4                        | May 15/2006 | 8                        | May 15/2006 |
| 8                        | Sep 15/2006 | 5                        | May 15/2006 | 9                        | May 15/2006 |
| 9                        | Sep 15/2006 | 6                        | May 15/2006 | 10                       | May 15/2006 |
| 10                       | Sep 15/2006 | 7                        | May 15/2006 | PART 6 - 32-10-02        |             |
| 11                       | Sep 15/2006 | 8                        | May 15/2006 | 1                        | May 15/2006 |
| 12                       | BLANK       | 9                        | May 15/2006 | 2                        | May 15/2006 |
| PART 4 - 57-50-06        |             | 10                       | May 15/2006 | 3                        | May 15/2006 |
| 1                        | Sep 15/2007 | 11                       | May 15/2006 | 4                        | May 15/2006 |
| 2                        | Jan 15/2007 | 12                       | BLANK       | 5                        | May 15/2006 |
| 3                        | Jan 15/2007 | PART 6 - FRONTMATTER     |             | 6                        | May 15/2006 |
| 4                        | Jan 15/2007 | 1                        | May 15/2006 | PART 6 - 51-00-01        |             |
| 5                        | Jan 15/2007 | O 2                      | Dec 15/2008 | 1                        | May 15/2007 |
| 6                        | Jan 15/2007 | O 3                      | Dec 15/2008 | 2                        | May 15/2007 |
| 7                        | Jan 15/2007 | O 4                      | Dec 15/2008 | 3                        | May 15/2006 |
| 8                        | Jan 15/2007 | 5                        | Sep 15/2007 | 4                        | May 15/2006 |
| 9                        | Jan 15/2007 | 6                        | Sep 15/2007 | 5                        | May 15/2006 |
| 10                       | Jan 15/2007 | PART 6 - 22-10-01        |             | 6                        | May 15/2006 |
| PART 4 - 57-50-07        |             | 1                        | May 15/2006 | 7                        | May 15/2006 |
| 1                        | Sep 15/2006 | 2                        | May 15/2006 | 8                        | May 15/2006 |
| 2                        | Sep 15/2006 | 3                        | May 15/2006 | 9                        | May 15/2006 |

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## EFFECTIVE PAGES



## 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page             | Date        | Subject/Page      | Date        | Subject/Page             | Date        |
|--------------------------|-------------|-------------------|-------------|--------------------------|-------------|
| PART 6 - 51-00-01 (cont) |             | PART 6 - 51-00-06 |             | PART 6 - 51-00-12 (cont) |             |
| 10                       | May 15/2006 | 1                 | May 15/2006 | 2                        | May 15/2007 |
| 11                       | May 15/2006 | 2                 | May 15/2006 | 3                        | May 15/2007 |
| 12                       | May 15/2006 | 3                 | May 15/2006 | 4                        | May 15/2007 |
| 13                       | May 15/2006 | 4                 | May 15/2006 | 5                        | May 15/2006 |
| 14                       | May 15/2006 | 5                 | May 15/2006 | 6                        | May 15/2006 |
| 15                       | May 15/2006 | 6                 | May 15/2006 | 7                        | May 15/2006 |
| 16                       | May 15/2006 | PART 6 - 51-00-07 |             | 8                        | May 15/2006 |
| 17                       | May 15/2006 | 1                 | May 15/2006 | 9                        | May 15/2006 |
| 18                       | BLANK       | 2                 | May 15/2006 | 10                       | May 15/2006 |
| PART 6 - 51-00-02        |             | PART 6 - 51-00-08 |             | 11                       | May 15/2006 |
| 1                        | May 15/2006 | 1                 | May 15/2006 | 12                       | May 15/2006 |
| 2                        | May 15/2006 | 2                 | May 15/2006 | 13                       | May 15/2006 |
| 3                        | May 15/2006 | 3                 | May 15/2006 | 14                       | May 15/2006 |
| 4                        | May 15/2006 | 4                 | May 15/2006 | 15                       | May 15/2006 |
| 5                        | May 15/2006 | PART 6 - 51-00-09 |             | 16                       | May 15/2006 |
| 6                        | May 15/2006 | 1                 | May 15/2006 | 17                       | May 15/2006 |
| 7                        | May 15/2006 | 2                 | May 15/2006 | 18                       | BLANK       |
| 8                        | May 15/2006 | PART 6 - 51-00-10 |             | PART 6 - 51-00-13        |             |
| 9                        | May 15/2006 | 1                 | May 15/2006 | 1                        | May 15/2006 |
| 10                       | May 15/2006 | 2                 | May 15/2006 | 2                        | May 15/2006 |
| PART 6 - 51-00-03        |             | 3                 | May 15/2006 | 3                        | May 15/2006 |
| 1                        | May 15/2006 | 4                 | May 15/2006 | 4                        | May 15/2006 |
| 2                        | May 15/2006 | 5                 | May 15/2006 | 5                        | May 15/2006 |
| 3                        | May 15/2006 | 6                 | May 15/2006 | 6                        | May 15/2006 |
| 4                        | May 15/2006 | 7                 | May 15/2006 | 7                        | May 15/2006 |
| PART 6 - 51-00-04        |             | 8                 | May 15/2006 | 8                        | May 15/2006 |
| 1                        | May 15/2007 | PART 6 - 51-00-11 |             | 9                        | May 15/2006 |
| 2                        | May 15/2007 | 1                 | May 15/2006 | 10                       | May 15/2006 |
| 3                        | May 15/2006 | 2                 | May 15/2006 | 11                       | May 15/2006 |
| 4                        | May 15/2006 | 3                 | May 15/2006 | 12                       | May 15/2006 |
| 5                        | May 15/2006 | 4                 | May 15/2006 | 13                       | May 15/2006 |
| 6                        | BLANK       | 5                 | May 15/2006 | 14                       | May 15/2006 |
| PART 6 - 51-00-05        |             | 6                 | May 15/2006 | 15                       | Jan 15/2008 |
| 1                        | May 15/2007 | 7                 | May 15/2006 | 16                       | May 15/2006 |
| 2                        | May 15/2006 | 8                 | May 15/2006 | 17                       | May 15/2006 |
| 3                        | May 15/2006 | 9                 | May 15/2006 | 18                       | May 15/2006 |
| 4                        | May 15/2006 | 10                | May 15/2006 | 19                       | May 15/2006 |
| 5                        | May 15/2006 | PART 6 - 51-00-12 |             | 20                       | May 15/2006 |
| 6                        | BLANK       | 1                 | May 15/2007 | 21                       | May 15/2006 |

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## EFFECTIVE PAGES



**767**  
**NONDESTRUCTIVE TEST MANUAL**

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page             | Date        |
|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| PART 6 - 51-00-13 (cont) |             | PART 6 - 51-00-16 (cont) |             | PART 6 - 51-00-19 (cont) |             |
| 22                       | BLANK       | 12                       | BLANK       | 16                       | May 15/2006 |
| PART 6 - 51-00-14        |             | PART 6 - 51-00-17        |             | 17                       | May 15/2006 |
| 1                        | May 15/2006 | 1                        | May 15/2006 | 18                       | BLANK       |
| 2                        | May 15/2006 | 2                        | May 15/2006 | PART 6 - 51-00-20        |             |
| 3                        | May 15/2006 | 3                        | May 15/2006 | 1                        | May 15/2006 |
| 4                        | May 15/2006 | 4                        | May 15/2006 | 2                        | May 15/2006 |
| 5                        | May 15/2006 | 5                        | May 15/2006 | 3                        | May 15/2006 |
| 6                        | May 15/2006 | 6                        | May 15/2006 | 4                        | May 15/2006 |
| 7                        | May 15/2006 | 7                        | May 15/2006 | 5                        | May 15/2006 |
| 8                        | May 15/2006 | 8                        | May 15/2006 | 6                        | May 15/2006 |
| 9                        | May 15/2006 | 9                        | May 15/2006 | 7                        | May 15/2006 |
| 10                       | May 15/2006 | 10                       | May 15/2006 | 8                        | May 15/2006 |
| 11                       | May 15/2006 | 11                       | May 15/2006 | 9                        | May 15/2006 |
| 12                       | BLANK       | 12                       | BLANK       | 10                       | May 15/2006 |
| PART 6 - 51-00-15        |             | PART 6 - 51-00-18        |             | 11                       | May 15/2006 |
| 1                        | Jan 15/2008 | 1                        | May 15/2006 | 12                       | May 15/2006 |
| 2                        | Jan 15/2007 | 2                        | May 15/2006 | PART 6 - 51-00-21        |             |
| 3                        | Jan 15/2007 | 3                        | May 15/2006 | 1                        | May 15/2006 |
| 4                        | Jan 15/2007 | 4                        | May 15/2006 | 2                        | May 15/2006 |
| 5                        | Jan 15/2007 | 5                        | May 15/2006 | 3                        | May 15/2006 |
| 6                        | Apr 15/2008 | 6                        | May 15/2006 | 4                        | May 15/2006 |
| 7                        | Jan 15/2007 | 7                        | May 15/2006 | 5                        | May 15/2006 |
| 8                        | Jan 15/2007 | 8                        | BLANK       | 6                        | May 15/2006 |
| 9                        | Jan 15/2007 | PART 6 - 51-00-19        |             | 7                        | May 15/2006 |
| 10                       | Jan 15/2007 | 1                        | May 15/2006 | 8                        | May 15/2006 |
| 11                       | Jan 15/2007 | 2                        | May 15/2006 | 9                        | May 15/2006 |
| 12                       | Jan 15/2007 | 3                        | May 15/2006 | 10                       | May 15/2006 |
| PART 6 - 51-00-16        |             | 4                        | May 15/2006 | 11                       | May 15/2006 |
| 1                        | May 15/2006 | 5                        | May 15/2006 | 12                       | May 15/2006 |
| 2                        | May 15/2006 | 6                        | May 15/2006 | 13                       | May 15/2006 |
| 3                        | May 15/2006 | 7                        | Sep 15/2006 | 14                       | May 15/2006 |
| 4                        | May 15/2006 | 8                        | May 15/2006 | 15                       | May 15/2006 |
| 5                        | May 15/2006 | 9                        | May 15/2006 | 16                       | May 15/2006 |
| 6                        | May 15/2006 | 10                       | May 15/2006 | 17                       | May 15/2006 |
| 7                        | May 15/2006 | 11                       | May 15/2006 | 18                       | May 15/2006 |
| 8                        | May 15/2006 | 12                       | May 15/2006 | PART 6 - 51-00-22        |             |
| 9                        | May 15/2006 | 13                       | May 15/2006 | 1                        | May 15/2006 |
| 10                       | May 15/2006 | 14                       | May 15/2006 | 2                        | May 15/2006 |
| 11                       | May 15/2006 | 15                       | May 15/2006 | 3                        | May 15/2006 |

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**EFFECTIVE PAGES**



# 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page      | Date        |
|--------------------------|-------------|--------------------------|-------------|-------------------|-------------|
| PART 6 - 51-00-22 (cont) |             | PART 6 - 53-00-06 (cont) |             | PART 6 - 53-00-11 |             |
| 4                        | May 15/2006 | 10                       | May 15/2006 | 1                 | May 15/2006 |
| 5                        | Jan 15/2007 | 11                       | May 15/2006 | 2                 | May 15/2006 |
| 6                        | Jan 15/2007 | 12                       | BLANK       | 3                 | May 15/2006 |
| 7                        | Jan 15/2007 | PART 6 - 53-00-07        |             | 4                 | Sep 15/2006 |
| 8                        | Jan 15/2007 | 1                        | May 15/2006 | 5                 | May 15/2006 |
| 9                        | Jan 15/2007 | 2                        | May 15/2006 | 6                 | May 15/2006 |
| 10                       | Jan 15/2007 | 3                        | May 15/2006 | 7                 | May 15/2006 |
| 11                       | Jan 15/2007 | 4                        | May 15/2006 | 8                 | May 15/2006 |
| 12                       | Jan 15/2007 | 5                        | May 15/2006 | 9                 | May 15/2006 |
| 13                       | Jan 15/2007 | 6                        | May 15/2006 | 10                | May 15/2006 |
| 14                       | Jan 15/2007 | 7                        | May 15/2006 | 11                | May 15/2006 |
| PART 6 - 53-00-04        |             | 8                        | May 15/2006 | 12                | May 15/2006 |
| 1                        | May 15/2006 | 9                        | May 15/2006 | 13                | May 15/2006 |
| 2                        | May 15/2006 | 10                       | May 15/2006 | 14                | May 15/2006 |
| 3                        | May 15/2006 | 11                       | May 15/2006 | 15                | May 15/2006 |
| 4                        | May 15/2006 | 12                       | May 15/2006 | 16                | May 15/2006 |
| 5                        | May 15/2006 | PART 6 - 53-00-08        |             | 17                | May 15/2006 |
| 6                        | May 15/2006 | 1                        | May 15/2006 | 18                | May 15/2006 |
| 7                        | May 15/2006 | 2                        | May 15/2006 | 19                | May 15/2006 |
| 8                        | May 15/2006 | 3                        | May 15/2006 | 20                | May 15/2006 |
| 9                        | May 15/2006 | 4                        | BLANK       | 21                | May 15/2006 |
| 10                       | May 15/2006 | PART 6 - 53-00-09        |             | 22                | May 15/2006 |
| PART 6 - 53-00-05        |             | 1                        | May 15/2007 | 23                | May 15/2006 |
| 1                        | May 15/2006 | 2                        | May 15/2007 | 24                | May 15/2006 |
| 2                        | May 15/2006 | 3                        | May 15/2007 | 25                | May 15/2006 |
| 3                        | May 15/2006 | 4                        | May 15/2007 | 26                | May 15/2006 |
| 4                        | May 15/2006 | 5                        | May 15/2007 | 27                | May 15/2006 |
| 5                        | May 15/2006 | 6                        | May 15/2007 | 28                | May 15/2006 |
| 6                        | May 15/2006 | 7                        | May 15/2007 | PART 6 - 53-00-12 |             |
| PART 6 - 53-00-06        |             | 8                        | BLANK       | 1                 | Jan 15/2007 |
| 1                        | May 15/2006 | PART 6 - 53-00-10        |             | 2                 | Jan 15/2007 |
| 2                        | May 15/2006 | 1                        | May 15/2006 | 3                 | Jan 15/2007 |
| 3                        | May 15/2006 | 2                        | May 15/2006 | 4                 | Jan 15/2007 |
| 4                        | May 15/2006 | 3                        | May 15/2006 | 5                 | Jan 15/2007 |
| 5                        | May 15/2006 | 4                        | May 15/2006 | 6                 | Jan 15/2007 |
| 6                        | May 15/2006 | 5                        | May 15/2006 | PART 6 - 53-00-13 |             |
| 7                        | May 15/2006 | 6                        | May 15/2006 | 1                 | Jan 15/2007 |
| 8                        | May 15/2006 | 7                        | May 15/2006 | 2                 | Jan 15/2007 |
| 9                        | May 15/2006 | 8                        | May 15/2006 | 3                 | Jan 15/2007 |

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## EFFECTIVE PAGES



# 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page             | Date        | Subject/Page      | Date        | Subject/Page             | Date        |
|--------------------------|-------------|-------------------|-------------|--------------------------|-------------|
| PART 6 - 53-00-13 (cont) |             | PART 6 - 53-10-06 |             | PART 6 - 53-10-12 (cont) |             |
| 4                        | Jan 15/2007 | 1                 | May 15/2006 | 2                        | May 15/2006 |
| 5                        | Jan 15/2007 | 2                 | May 15/2006 | 3                        | May 15/2006 |
| 6                        | Jan 15/2007 | 3                 | Jan 15/2007 | 4                        | BLANK       |
| 7                        | Jan 15/2007 | 4                 | May 15/2006 | PART 6 - 53-10-13        |             |
| 8                        | Jan 15/2007 | 5                 | May 15/2006 | 1                        | May 15/2006 |
| PART 6 - 53-00-14        |             | 6                 | Jan 15/2007 | 2                        | May 15/2006 |
| A 1                      | Dec 15/2008 | PART 6 - 53-10-07 |             | 3                        | May 15/2006 |
| A 2                      | Dec 15/2008 | 1                 | May 15/2006 | 4                        | May 15/2006 |
| A 3                      | Dec 15/2008 | 2                 | May 15/2006 | 5                        | May 15/2006 |
| A 4                      | Dec 15/2008 | 3                 | May 15/2006 | 6                        | May 15/2006 |
| A 5                      | Dec 15/2008 | 4                 | May 15/2006 | 7                        | May 15/2006 |
| A 6                      | Dec 15/2008 | 5                 | May 15/2006 | 8                        | May 15/2006 |
| A 7                      | Dec 15/2008 | 6                 | BLANK       | PART 6 - 53-10-14        |             |
| A 8                      | Dec 15/2008 | PART 6 - 53-10-08 |             | 1                        | May 15/2006 |
| A 9                      | Dec 15/2008 | 1                 | May 15/2006 | 2                        | May 15/2006 |
| A 10                     | Dec 15/2008 | 2                 | May 15/2006 | 3                        | May 15/2006 |
| A 11                     | Dec 15/2008 | 3                 | May 15/2006 | 4                        | BLANK       |
| A 12                     | Dec 15/2008 | 4                 | May 15/2006 | PART 6 - 53-10-15        |             |
| A 13                     | Dec 15/2008 | PART 6 - 53-10-09 |             | 1                        | Sep 15/2007 |
| A 14                     | Dec 15/2008 | 1                 | May 15/2006 | 2                        | Sep 15/2006 |
| PART 6 - 53-10-01        |             | 2                 | May 15/2006 | 3                        | Sep 15/2006 |
| 1                        | May 15/2006 | 3                 | May 15/2006 | 4                        | BLANK       |
| 2                        | Jan 15/2008 | 4                 | May 15/2006 | PART 6 - 53-10-16        |             |
| 3                        | May 15/2006 | 5                 | May 15/2006 | 1                        | Sep 15/2006 |
| 4                        | May 15/2006 | 6                 | May 15/2006 | 2                        | Sep 15/2006 |
| 5                        | May 15/2006 | 7                 | May 15/2006 | 3                        | Sep 15/2006 |
| 6                        | May 15/2006 | 8                 | May 15/2006 | 4                        | BLANK       |
| 7                        | May 15/2006 | PART 6 - 53-10-10 |             | PART 6 - 53-10-17        |             |
| 8                        | May 15/2006 | 1                 | May 15/2006 | 1                        | Sep 15/2006 |
| PART 6 - 53-10-04        |             | 2                 | May 15/2006 | 2                        | Sep 15/2006 |
| 1                        | May 15/2006 | 3                 | May 15/2006 | 3                        | Sep 15/2006 |
| 2                        | May 15/2006 | 4                 | May 15/2006 | 4                        | Sep 15/2006 |
| 3                        | May 15/2006 | PART 6 - 53-10-11 |             | PART 6 - 53-10-18        |             |
| 4                        | BLANK       | 1                 | May 15/2006 | 1                        | May 15/2006 |
| PART 6 - 53-10-05        |             | 2                 | May 15/2006 | 2                        | May 15/2006 |
| 1                        | May 15/2006 | 3                 | May 15/2006 | 3                        | May 15/2006 |
| 2                        | May 15/2006 | 4                 | May 15/2006 | 4                        | Sep 15/2007 |
| 3                        | May 15/2006 | PART 6 - 53-10-12 |             | 5                        | May 15/2006 |
| 4                        | May 15/2006 | 1                 | May 15/2006 | 6                        | May 15/2006 |

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## EFFECTIVE PAGES



**767**  
**NONDESTRUCTIVE TEST MANUAL**

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page             | Date        |
|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| PART 6 - 53-10-18 (cont) |             | PART 6 - 53-30-03 (cont) |             | PART 6 - 53-30-06 (cont) |             |
| 7                        | May 15/2006 | 7                        | May 15/2006 | 26                       | May 15/2006 |
| 8                        | BLANK       | 8                        | May 15/2006 | 27                       | May 15/2006 |
| PART 6 - 53-10-19        |             | 9                        | May 15/2006 | 28                       | May 15/2006 |
| 1                        | May 15/2006 | 10                       | BLANK       | 29                       | May 15/2006 |
| 2                        | May 15/2006 | PART 6 - 53-30-05        |             | 30                       | May 15/2006 |
| 3                        | Sep 15/2007 | 1                        | May 15/2006 | 31                       | May 15/2006 |
| 4                        | May 15/2006 | 2                        | May 15/2006 | 32                       | May 15/2006 |
| 5                        | May 15/2006 | 3                        | May 15/2006 | 33                       | May 15/2006 |
| 6                        | May 15/2006 | 4                        | May 15/2006 | 34                       | BLANK       |
| PART 6 - 53-10-20        |             | 5                        | May 15/2006 | PART 6 - 53-30-07        |             |
| 1                        | May 15/2006 | 6                        | May 15/2006 | 1                        | May 15/2006 |
| 2                        | May 15/2006 | 7                        | May 15/2006 | 2                        | May 15/2006 |
| 3                        | Sep 15/2007 | 8                        | BLANK       | 3                        | May 15/2006 |
| 4                        | BLANK       | PART 6 - 53-30-06        |             | 4                        | May 15/2006 |
| PART 6 - 53-30-01        |             | 1                        | May 15/2006 | PART 6 - 53-30-08        |             |
| R 1                      | Dec 15/2008 | 2                        | May 15/2006 | 1                        | May 15/2006 |
| 2                        | May 15/2006 | 3                        | May 15/2006 | 2                        | May 15/2006 |
| 3                        | May 15/2006 | 4                        | May 15/2006 | 3                        | May 15/2006 |
| 4                        | May 15/2006 | 5                        | May 15/2006 | 4                        | May 15/2006 |
| 5                        | May 15/2006 | 6                        | May 15/2006 | PART 6 - 53-30-09        |             |
| 6                        | May 15/2006 | 7                        | May 15/2006 | 1                        | May 15/2006 |
| 7                        | May 15/2006 | 8                        | May 15/2006 | 2                        | May 15/2006 |
| 8                        | May 15/2006 | 9                        | May 15/2006 | 3                        | May 15/2006 |
| PART 6 - 53-30-02        |             | 10                       | May 15/2006 | 4                        | BLANK       |
| R 1                      | Dec 15/2008 | 11                       | May 15/2006 | PART 6 - 53-30-10        |             |
| 2                        | May 15/2006 | 12                       | May 15/2006 | 1                        | Sep 15/2006 |
| 3                        | May 15/2006 | 13                       | May 15/2006 | 2                        | Sep 15/2006 |
| 4                        | May 15/2006 | 14                       | May 15/2006 | 3                        | Jan 15/2008 |
| 5                        | May 15/2006 | 15                       | May 15/2006 | 4                        | Sep 15/2006 |
| 6                        | May 15/2006 | 16                       | May 15/2006 | 5                        | Sep 15/2006 |
| 7                        | May 15/2006 | 17                       | May 15/2006 | 6                        | Sep 15/2006 |
| 8                        | May 15/2006 | 18                       | May 15/2006 | 7                        | Sep 15/2006 |
| PART 6 - 53-30-03        |             | 19                       | May 15/2006 | 8                        | BLANK       |
| R 1                      | Dec 15/2008 | 20                       | May 15/2006 | PART 6 - 53-30-11        |             |
| 2                        | May 15/2006 | 21                       | May 15/2006 | 1                        | May 15/2006 |
| 3                        | May 15/2006 | 22                       | May 15/2006 | 2                        | May 15/2006 |
| 4                        | May 15/2006 | 23                       | May 15/2006 | 3                        | May 15/2006 |
| 5                        | May 15/2006 | 24                       | May 15/2006 | 4                        | Jan 15/2007 |
| 6                        | May 15/2006 | 25                       | May 15/2006 | 5                        | Jan 15/2007 |

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**EFFECTIVE PAGES**



**767**  
**NONDESTRUCTIVE TEST MANUAL**

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page      | Date        |
|--------------------------|-------------|--------------------------|-------------|-------------------|-------------|
| PART 6 - 53-30-11 (cont) |             | PART 6 - 53-50-04 (cont) |             | PART 6 - 53-50-11 |             |
| 6                        | BLANK       | 3                        | May 15/2006 | 1                 | Sep 15/2006 |
| PART 6 - 53-30-12        |             | 4                        | BLANK       | 2                 | Apr 15/2008 |
| 1                        | May 15/2006 | PART 6 - 53-50-05        |             | 3                 | Sep 15/2006 |
| 2                        | May 15/2006 | 1                        | May 15/2006 | 4                 | Sep 15/2006 |
| 3                        | Jan 15/2007 | 2                        | May 15/2006 | PART 6 - 53-50-12 |             |
| 4                        | May 15/2006 | 3                        | May 15/2006 | R 1               | Dec 15/2008 |
| 5                        | May 15/2006 | 4                        | May 15/2006 | 2                 | Apr 15/2008 |
| 6                        | BLANK       | PART 6 - 53-50-06        |             | 3                 | Sep 15/2006 |
| PART 6 - 53-30-13        |             | 1                        | May 15/2006 | 4                 | Sep 15/2006 |
| 1                        | May 15/2006 | 2                        | May 15/2006 | PART 6 - 53-60-01 |             |
| 2                        | May 15/2006 | 3                        | May 15/2006 | 1                 | May 15/2006 |
| 3                        | May 15/2006 | 4                        | May 15/2006 | 2                 | May 15/2006 |
| 4                        | Jan 15/2007 | PART 6 - 53-50-07        |             | 3                 | May 15/2006 |
| PART 6 - 53-30-15        |             | 1                        | Sep 15/2006 | 4                 | May 15/2006 |
| 1                        | Sep 15/2006 | 2                        | Sep 15/2006 | 5                 | May 15/2006 |
| 2                        | Sep 15/2006 | 3                        | Sep 15/2006 | 6                 | May 15/2006 |
| 3                        | Sep 15/2006 | 4                        | Sep 15/2006 | 7                 | May 15/2006 |
| 4                        | Sep 15/2006 | 5                        | Sep 15/2006 | 8                 | May 15/2006 |
| PART 6 - 53-30-16        |             | 6                        | BLANK       | 9                 | May 15/2006 |
| 1                        | Sep 15/2006 | PART 6 - 53-50-08        |             | 10                | BLANK       |
| 2                        | Sep 15/2006 | 1                        | Sep 15/2006 | PART 6 - 53-60-02 |             |
| 3                        | Sep 15/2006 | 2                        | Sep 15/2006 | 1                 | May 15/2006 |
| 4                        | BLANK       | 3                        | Sep 15/2006 | 2                 | May 15/2006 |
| PART 6 - 53-50-01        |             | 4                        | Sep 15/2006 | 3                 | May 15/2006 |
| 1                        | May 15/2006 | 5                        | Sep 15/2006 | 4                 | BLANK       |
| 2                        | May 15/2006 | 6                        | BLANK       | PART 6 - 53-60-03 |             |
| 3                        | May 15/2006 | PART 6 - 53-50-09        |             | 1                 | May 15/2006 |
| 4                        | BLANK       | 1                        | Sep 15/2006 | 2                 | May 15/2006 |
| PART 6 - 53-50-02        |             | 2                        | Sep 15/2006 | 3                 | May 15/2006 |
| 1                        | Jan 15/2008 | 3                        | Sep 15/2006 | 4                 | May 15/2006 |
| 2                        | May 15/2006 | 4                        | Sep 15/2006 | PART 6 - 53-60-04 |             |
| 3                        | May 15/2006 | 5                        | Sep 15/2006 | 1                 | May 15/2006 |
| 4                        | May 15/2006 | 6                        | Sep 15/2006 | 2                 | May 15/2006 |
| PART 6 - 53-50-03        |             | PART 6 - 53-50-10        |             | 3                 | May 15/2006 |
| 1                        | May 15/2006 | 1                        | Sep 15/2006 | 4                 | May 15/2006 |
| 2                        | May 15/2006 | 2                        | Sep 15/2006 | PART 6 - 53-60-05 |             |
| PART 6 - 53-50-04        |             | 3                        | Sep 15/2006 | 1                 | Sep 15/2006 |
| 1                        | May 15/2006 | 4                        | Sep 15/2006 | 2                 | Sep 15/2006 |
| 2                        | May 15/2006 |                          |             | 3                 | Sep 15/2006 |

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**EFFECTIVE PAGES**



# 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page             | Date        | Subject/Page      | Date        | Subject/Page             | Date        |
|--------------------------|-------------|-------------------|-------------|--------------------------|-------------|
| PART 6 - 53-60-05 (cont) |             | PART 6 - 53-80-02 |             | PART 6 - 53-80-04 (cont) |             |
| 4                        | Sep 15/2006 | 1                 | May 15/2006 | 16                       | BLANK       |
| 5                        | Sep 15/2006 | 2                 | May 15/2007 | PART 6 - 53-80-05        |             |
| 6                        | BLANK       | 3                 | May 15/2007 | 1                        | May 15/2006 |
| PART 6 - 53-60-06        |             | 4                 | May 15/2007 | 2                        | May 15/2006 |
| 1                        | Sep 15/2006 | 5                 | May 15/2006 | 3                        | May 15/2006 |
| 2                        | Sep 15/2006 | 6                 | May 15/2006 | 4                        | BLANK       |
| 3                        | Sep 15/2006 | 7                 | May 15/2006 | PART 6 - 53-80-06        |             |
| 4                        | Sep 15/2006 | 8                 | May 15/2006 | 1                        | Jan 15/2007 |
| 5                        | Sep 15/2006 | 9                 | May 15/2006 | 2                        | May 15/2007 |
| 6                        | BLANK       | 10                | May 15/2006 | 3                        | Sep 15/2007 |
| PART 6 - 53-60-07        |             | 11                | May 15/2006 | 4                        | Jan 15/2007 |
| 1                        | Aug 15/2008 | 12                | BLANK       | 5                        | Jan 15/2007 |
| 2                        | Sep 15/2006 | PART 6 - 53-80-03 |             | 6                        | Jan 15/2007 |
| 3                        | Sep 15/2006 | 1                 | May 15/2006 | 7                        | May 15/2007 |
| 4                        | Sep 15/2006 | 2                 | May 15/2006 | 8                        | May 15/2007 |
| 5                        | Sep 15/2006 | 3                 | May 15/2006 | 9                        | Sep 15/2007 |
| 6                        | BLANK       | 4                 | May 15/2006 | 10                       | BLANK       |
| PART 6 - 53-60-08        |             | 5                 | May 15/2006 | PART 6 - 54-50-01        |             |
| 1                        | Sep 15/2006 | 6                 | May 15/2006 | 1                        | May 15/2006 |
| 2                        | Sep 15/2006 | 7                 | May 15/2006 | 2                        | May 15/2006 |
| 3                        | Sep 15/2006 | 8                 | May 15/2006 | 3                        | Jan 15/2007 |
| 4                        | BLANK       | 9                 | May 15/2006 | 4                        | May 15/2006 |
| PART 6 - 53-60-09        |             | 10                | May 15/2006 | 5                        | May 15/2006 |
| 1                        | Sep 15/2006 | PART 6 - 53-80-04 |             | 6                        | May 15/2006 |
| 2                        | Sep 15/2006 | 1                 | May 15/2006 | PART 6 - 54-50-02        |             |
| 3                        | Sep 15/2006 | 2                 | May 15/2006 | 1                        | Sep 15/2006 |
| 4                        | Sep 15/2006 | 3                 | May 15/2006 | 2                        | Sep 15/2006 |
| PART 6 - 53-80-01        |             | 4                 | May 15/2006 | 3                        | Sep 15/2006 |
| 1                        | May 15/2006 | 5                 | May 15/2006 | 4                        | Sep 15/2006 |
| 2                        | May 15/2007 | 6                 | May 15/2006 | 5                        | Sep 15/2006 |
| 3                        | May 15/2006 | 7                 | May 15/2006 | 6                        | Sep 15/2006 |
| 4                        | May 15/2006 | 8                 | May 15/2006 | PART 6 - 54-51-01        |             |
| 5                        | May 15/2006 | 9                 | May 15/2006 | 1                        | May 15/2006 |
| 6                        | May 15/2006 | 10                | May 15/2006 | 2                        | May 15/2006 |
| 7                        | May 15/2006 | 11                | May 15/2006 | 3                        | May 15/2006 |
| 8                        | May 15/2006 | 12                | May 15/2006 | 4                        | May 15/2006 |
| 9                        | May 15/2006 | 13                | May 15/2006 | 5                        | May 15/2006 |
| 10                       | May 15/2006 | 14                | May 15/2006 | 6                        | May 15/2006 |
|                          |             | 15                | Jan 15/2007 | 7                        | May 15/2006 |

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## EFFECTIVE PAGES



**767**  
**NONDESTRUCTIVE TEST MANUAL**

| Subject/Page             | Date        | Subject/Page             | Date        | Subject/Page             | Date        |
|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| PART 6 - 54-51-01 (cont) |             | PART 6 - 55-10-05 (cont) |             | PART 6 - 57-20-01 (cont) |             |
| 8                        | May 15/2006 | 3                        | May 15/2006 | 6                        | May 15/2006 |
| 9                        | May 15/2006 | 4                        | BLANK       | 7                        | May 15/2006 |
| 10                       | BLANK       | PART 6 - 57-04-01        |             | 8                        | BLANK       |
| PART 6 - 54-51-02        |             | 1                        | May 15/2006 | PART 6 - 57-20-02        |             |
| 1                        | May 15/2006 | 2                        | May 15/2006 | 1                        | May 15/2006 |
| 2                        | May 15/2006 | 3                        | May 15/2006 | 2                        | Sep 15/2007 |
| 3                        | May 15/2006 | 4                        | May 15/2006 | 3                        | May 15/2006 |
| 4                        | May 15/2006 | 5                        | May 15/2006 | 4                        | May 15/2006 |
| 5                        | May 15/2006 | 6                        | BLANK       | PART 6 - 57-20-03        |             |
| 6                        | May 15/2006 | PART 6 - 57-10-01        |             | 1                        | Jan 15/2007 |
| 7                        | May 15/2006 | 1                        | May 15/2006 | 2                        | Jan 15/2007 |
| 8                        | May 15/2006 | 2                        | May 15/2006 | 3                        | Jan 15/2007 |
| 9                        | May 15/2006 | 3                        | May 15/2006 | 4                        | Jan 15/2007 |
| 10                       | May 15/2006 | 4                        | May 15/2006 | 5                        | May 15/2006 |
| PART 6 - 55-10-01        |             | PART 6 - 57-10-02        |             | 6                        | May 15/2006 |
| 1                        | May 15/2006 | 1                        | May 15/2006 | 7                        | Sep 15/2006 |
| 2                        | May 15/2006 | 2                        | May 15/2006 | 8                        | May 15/2006 |
| 3                        | May 15/2006 | 3                        | May 15/2006 | PART 6 - 57-20-04        |             |
| 4                        | May 15/2006 | 4                        | May 15/2006 | 1                        | Apr 15/2008 |
| PART 6 - 55-10-02        |             | 5                        | May 15/2006 | 2                        | Apr 15/2008 |
| 1                        | May 15/2006 | 6                        | May 15/2006 | 3                        | May 15/2006 |
| 2                        | May 15/2006 | 7                        | May 15/2006 | 4                        | May 15/2006 |
| 3                        | May 15/2006 | 8                        | BLANK       | PART 6 - 57-20-05        |             |
| 4                        | May 15/2006 | PART 6 - 57-10-03        |             | 1                        | Apr 15/2008 |
| PART 6 - 55-10-03        |             | 1                        | May 15/2006 | 2                        | Apr 15/2008 |
| 1                        | May 15/2006 | 2                        | May 15/2006 | 3                        | May 15/2006 |
| 2                        | May 15/2006 | 3                        | May 15/2006 | 4                        | May 15/2006 |
| 3                        | May 15/2006 | 4                        | BLANK       | PART 6 - 57-20-06        |             |
| 4                        | May 15/2006 | PART 6 - 57-10-04        |             | 1                        | May 15/2006 |
| R 5                      | Dec 15/2008 | R 1                      | Dec 15/2008 | 2                        | May 15/2006 |
| 6                        | May 15/2006 | R 2                      | Dec 15/2008 | 3                        | May 15/2006 |
| PART 6 - 55-10-04        |             | 3                        | May 15/2006 | 4                        | May 15/2006 |
| 1                        | May 15/2006 | 4                        | May 15/2006 | 5                        | May 15/2006 |
| 2                        | May 15/2006 | PART 6 - 57-20-01        |             | 6                        | May 15/2006 |
| 3                        | May 15/2006 | 1                        | Sep 15/2006 | 7                        | May 15/2006 |
| 4                        | May 15/2006 | 2                        | May 15/2006 | 8                        | Jan 15/2007 |
| PART 6 - 55-10-05        |             | 3                        | May 15/2006 | 9                        | May 15/2006 |
| 1                        | May 15/2006 | 4                        | May 15/2006 | 10                       | BLANK       |
| 2                        | May 15/2006 | 5                        | Sep 15/2006 |                          |             |

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**EFFECTIVE PAGES**



# 767 NONDESTRUCTIVE TEST MANUAL

| Subject/Page      | Date        | Subject/Page         | Date        | Subject/Page             | Date        |
|-------------------|-------------|----------------------|-------------|--------------------------|-------------|
| PART 6 - 57-20-07 |             | PART 6 - 57-50-04    |             | PART 9 - 51-00-01 (cont) |             |
| 1                 | May 15/2006 | 1                    | Sep 15/2006 | 3                        | May 15/2006 |
| 2                 | May 15/2006 | 2                    | Sep 15/2006 | 4                        | May 15/2006 |
| 3                 | May 15/2006 | 3                    | Sep 15/2006 | 5                        | May 15/2006 |
| 4                 | May 15/2006 | 4                    | Sep 15/2006 | 6                        | May 15/2006 |
| 5                 | May 15/2006 | PART 6 - 57-50-05    |             | 7                        | May 15/2006 |
| 6                 | May 15/2006 | R 1                  | Dec 15/2008 | 8                        | May 15/2006 |
| PART 6 - 57-20-08 |             | 2                    | Sep 15/2006 | 9                        | Jan 15/2007 |
| 1                 | May 15/2006 | 3                    | Sep 15/2006 | 10                       | Jan 15/2007 |
| 2                 | May 15/2006 | 4                    | Sep 15/2006 | PART 9 - 51-00-02        |             |
| 3                 | May 15/2006 | PART 6 - 57-50-06    |             | 1                        | May 15/2006 |
| 4                 | May 15/2006 | 1                    | Sep 15/2007 | 2                        | May 15/2006 |
| 5                 | May 15/2006 | 2                    | Sep 15/2006 | 3                        | May 15/2006 |
| 6                 | May 15/2006 | 3                    | Sep 15/2006 | 4                        | May 15/2006 |
| R 7               | Dec 15/2008 | 4                    | Sep 15/2006 | 5                        | May 15/2006 |
| 8                 | May 15/2006 | PART 6 - 57-50-07    |             | 6                        | May 15/2006 |
| 9                 | May 15/2006 | 1                    | Sep 15/2006 | 7                        | May 15/2006 |
| 10                | May 15/2006 | 2                    | Sep 15/2006 | 8                        | May 15/2006 |
| 11                | May 15/2006 | PART 6 - 57-50-08    |             | 9                        | May 15/2006 |
| 12                | May 15/2006 | 1                    | Sep 15/2007 | 10                       | May 15/2006 |
| PART 6 - 57-50-01 |             | 2                    | Jan 15/2008 | 11                       | May 15/2006 |
| 1                 | Sep 15/2007 | 3                    | Jan 15/2008 | 12                       | May 15/2006 |
| 2                 | May 15/2006 | 4                    | Jan 15/2007 | 13                       | May 15/2006 |
| 3                 | May 15/2006 | 5                    | Jan 15/2007 | 14                       | May 15/2006 |
| 4                 | May 15/2006 | 6                    | Jan 15/2008 | 15                       | May 15/2006 |
| 5                 | May 15/2006 | 7                    | Jan 15/2007 | 16                       | BLANK       |
| 6                 | May 15/2006 | 8                    | Jan 15/2007 | PART 9 - 51-00-03        |             |
| 7                 | May 15/2006 | PART 6 - 57-60-01    |             | 1                        | May 15/2006 |
| 8                 | May 15/2006 | 1                    | Aug 15/2008 | 2                        | May 15/2006 |
| PART 6 - 57-50-02 |             | 2                    | Aug 15/2008 | 3                        | May 15/2006 |
| 1                 | Sep 15/2007 | 3                    | Aug 15/2008 | 4                        | May 15/2006 |
| 2                 | Sep 15/2007 | 4                    | Aug 15/2008 | 5                        | May 15/2006 |
| 3                 | Sep 15/2006 | 5                    | Aug 15/2008 | 6                        | May 15/2006 |
| 4                 | BLANK       | 6                    | Aug 15/2008 | 7                        | May 15/2006 |
| PART 6 - 57-50-03 |             | PART 9 - FRONTMATTER |             | 8                        | May 15/2006 |
| R 1               | Dec 15/2008 | 1                    | May 15/2006 | 9                        | May 15/2006 |
| 2                 | Sep 15/2006 | 2                    | BLANK       | 10                       | Jan 15/2007 |
| 3                 | Sep 15/2006 | PART 9 - 51-00-01    |             | 11                       | Jan 15/2007 |
| 4                 | Sep 15/2006 | 1                    | May 15/2006 | 12                       | May 15/2006 |
|                   |             | 2                    | May 15/2006 | 13                       | Jan 15/2007 |

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## EFFECTIVE PAGES



**767**  
**NONDESTRUCTIVE TEST MANUAL**

| Subject/Page             | Date        | Subject/Page              | Date        | Subject/Page | Date |
|--------------------------|-------------|---------------------------|-------------|--------------|------|
| PART 9 - 51-00-03 (cont) |             | PART 10 - 53-30-01 (cont) |             |              |      |
| 14                       | Jan 15/2007 | 15                        | Jan 15/2007 |              |      |
| PART 9 - 51-00-04        |             | 16                        | Jan 15/2007 |              |      |
| 1                        | May 15/2006 | 17                        | Jan 15/2007 |              |      |
| 2                        | May 15/2006 | 18                        | Jan 15/2007 |              |      |
| 3                        | May 15/2006 | 19                        | Jan 15/2007 |              |      |
| 4                        | May 15/2006 | 20                        | Jan 15/2007 |              |      |
| 5                        | May 15/2006 | 21                        | Apr 15/2008 |              |      |
| 6                        | May 15/2006 | 22                        | BLANK       |              |      |
| 7                        | May 15/2006 |                           |             |              |      |
| 8                        | Jan 15/2007 |                           |             |              |      |
| 9                        | Jan 15/2007 |                           |             |              |      |
| 10                       | BLANK       |                           |             |              |      |
| PART 9 - 57-50-01        |             |                           |             |              |      |
| 1                        | May 15/2006 |                           |             |              |      |
| 2                        | May 15/2006 |                           |             |              |      |
| 3                        | May 15/2006 |                           |             |              |      |
| 4                        | May 15/2006 |                           |             |              |      |
| 5                        | May 15/2006 |                           |             |              |      |
| 6                        | May 15/2006 |                           |             |              |      |
| 7                        | May 15/2006 |                           |             |              |      |
| 8                        | May 15/2006 |                           |             |              |      |
| PART 10 - FRONTMATTER    |             |                           |             |              |      |
| 1                        | Jan 15/2007 |                           |             |              |      |
| 2                        | BLANK       |                           |             |              |      |
| PART 10 - 53-30-01       |             |                           |             |              |      |
| 1                        | Apr 15/2008 |                           |             |              |      |
| 2                        | Apr 15/2008 |                           |             |              |      |
| 3                        | Apr 15/2008 |                           |             |              |      |
| 4                        | Apr 15/2008 |                           |             |              |      |
| 5                        | Apr 15/2008 |                           |             |              |      |
| 6                        | Jan 15/2007 |                           |             |              |      |
| 7                        | Jan 15/2007 |                           |             |              |      |
| 8                        | Jan 15/2007 |                           |             |              |      |
| 9                        | Jan 15/2007 |                           |             |              |      |
| 10                       | Jan 15/2007 |                           |             |              |      |
| 11                       | Jan 15/2007 |                           |             |              |      |
| 12                       | Jan 15/2007 |                           |             |              |      |
| 13                       | Jan 15/2007 |                           |             |              |      |
| 14                       | Jan 15/2007 |                           |             |              |      |

A = Added, R = Revised, D = Deleted, O = Overflow

**EFFECTIVE PAGES**



767

# NONDESTRUCTIVE TEST MANUAL

All revisions to this manual will be accompanied by transmittal sheet bearing the revision number. Enter the revision number in numerical order, together with the revision date, the date filed and the initials of the person filing.

[illegible]

## REVISION RECORD



**767**  
**NONDESTRUCTIVE TEST MANUAL**

[illegible]

## REVISION RECORD



767

# NONDESTRUCTIVE TEST MANUAL

All temporary revisions to this manual will be accompanied by a cover sheet bearing the temporary revision number. Enter the temporary revision number in numerical order, together with the temporary revision date, the date the temporary revision is inserted and the initials of the person filing.

When the temporary revision is incorporated or cancelled, and the pages are removed, enter the date the pages are removed and the initials of the person who removed the temporary revision.

[illegible]

## RECORD OF TEMPORARY REVISION



## RECORD OF TEMPORARY REVISION



**767**  
**NONDESTRUCTIVE TEST MANUAL**

**TABLE OF CONTENTS**

**Method of Inspection**

INTRODUCTION

GENERAL

X-RAY

ULTRASONIC

EDDY CURRENT

THERMOGRAPHY

VISUAL/OPTICAL

**Part No.**

INTRODUCTION

PART 1

PART 2

PART 4

PART 6

PART 9

PART 10

**TABLE OF CONTENTS**



767

## NONDESTRUCTIVE TEST MANUAL

### INTRODUCTION

#### 1. General

- A. Detection of structural damage and defects before they deteriorate to critically dangerous proportions is a necessity in assuring the structural integrity of all aircraft. Inspection techniques developed for discovery of such defects in the 767 Boeing Jet airplanes are presented in this manual: X-ray, for examination of hidden areas in which disassembly for visual inspection is expensive and time consuming; eddy current and ultrasonic for examination of individual components for internal flaws and surface flaws not normally visible. As other methods of nondestructive inspection are developed, and found applicable, they will be added to this manual. As existing techniques are reviewed and refined, the manual will be revised to include the latest procedures developed.
- B. The Boeing Company is pursuing an aggressive program to improve the techniques of nondestructive testing. To this end, all airlines are urged to contribute new techniques which they have developed for inclusion in this manual. Forward such information through the Boeing Field Service Representative, or send directly to: Boeing Commercial Airplanes Customer Support Box 3707 Seattle, Washington, USA 98124-2207

**CAUTION:** MAKE SURE THAT YOU DO ALL OF THE STEPS TO THE END OF THE TASK. LARGE BLANK SPACES CAN OCCUR AT THE BOTTOM OF PAGES WHICH DO NOT ALWAYS INDICATE THAT YOU ARE AT THE END OF THE TASK. IF YOU DO NOT MAKE SURE THAT YOU COMPLETED THE TASK, DAMAGE TO THE EQUIPMENT OR SYSTEM MALFUNCTION COULD OCCUR.

- C. The fact that a procedure for inspection is contained in this manual must not be construed as a requirement for inspection. Furthermore, where a requirement for an inspection has been established, the procedure for that inspection shown in this manual is not mandatory. The intention is to provide operators with a proven inspection procedure that can be adapted to suit their own equipment or their particular airplane configuration. Alternative inspection techniques may be equally satisfactory, but the procedures given have been developed and used on airplanes.

#### 2. Arrangement of Manual

- A. This manual is arranged in the standard format laid out by the Air Transport Association in Specification ATA-100. Figure 1 shows the layout of the manual in schematic form.
- B. Arrangement of the manual is in nine parts. Part 1 presents general applications and general information pertaining to each type of nondestructive testing. Parts 2 thru 9 present specific information and procedures pertaining to each test category in detailed and pictorial form. Since airline personnel who perform these tests are necessarily well trained in its use, no effort is made to include instructions for operating the various types of equipment used for nondestructive testing. However, specific operating procedures are suggested, where applicable, in Parts 2 thru 9.

#### 3. Subject Numbering

- A. Each part of this manual is subdivided by use of the three-element ATA-100 numbering system. The first element denotes the ATA chapter, the second denotes the section and the third element denotes the subject number. A typical example is shown in Figure 1.

#### 4. List of Effective Pages

- A. A List of Effective Pages appears at the front of this manual which lists all of the pages contained in the manual and indicates the date on which each page was last revised.

#### 5. Supporting Technical Data

- A. A list of the Temporary Revisions that have been published by Boeing can be found in Table 1.
- B. For each basic airplane model a cross-reference is provided in this introduction which identifies those procedures in the manual which correspond to Maintenance Planning Document or Service Bulletin numbers.

## INTRODUCTION



767

## NONDESTRUCTIVE TEST MANUAL

- C. It must not be construed that any of the procedures in this manual satisfy the complete inspection requirements of the Maintenance Planning Document for High-Time Model 767 Aircraft; or are mandatory. The procedures described only represent the suggested method of performing the portion of the inspection that is adaptable to NDT methods.

### 6. Publications Change Requests

- A. Communications concerning this publication should be directed to: Boeing Commercial Airplanes: P.O. Box 3707; Seattle, Washington, USA 98124-2207; Attention: Manager, Maintenance Publications Engineering. To facilitate uniform handling and to provide direct routing of your questions to the proper Boeing organization, use of the Publications Change Request (PCR) Form is encouraged. Boeing makes this form available through your publications organization.

Table 1 Record of Temporary Revisions

| TEMPORARY<br>REV. NO. | PAGE NUMBER                                           | ISSUE DATE | BY | DATE<br>REMOVED | BY |
|-----------------------|-------------------------------------------------------|------------|----|-----------------|----|
| PART 1                |                                                       |            |    |                 |    |
|                       |                                                       |            |    |                 |    |
| PART 2                |                                                       |            |    |                 |    |
| 02-1                  | 51-00-01, PAGES 1 THRU 7                              | MAY 7/85   |    | JUN 15/85       |    |
|                       |                                                       |            |    |                 |    |
| PART 3                |                                                       |            |    |                 |    |
|                       |                                                       |            |    |                 |    |
| PART 4                |                                                       |            |    |                 |    |
| 04-1                  | 52-30-01, PAGES 1 THRU 10                             | DEC 16/83  |    | MAR 15/84       |    |
| 04-2                  | 55-10-01, PAGES 1 THRU 5                              | MAR 29/85  |    | JUN 15/85       |    |
| 04-3                  | 32-10-01, PAGES 2 AND 3                               | JUL 01/91  |    | SEP 15/91       |    |
| 04-4                  | 55-40-02, PAGES 3 THRU 12                             | JAN 20/92  |    | MAR 15/92       |    |
| 04-5                  | 32-10-02, PAGES 1 THRU 8 (SUPERSEDED<br>BY TR 04-8)   | NOV 30/95  |    | FEB 16/96       |    |
| 04-6                  | 32-10-03, PAGES 1 THRU 7 (SUPERSEDED<br>BY TR 04-9)   | NOV 30/95  |    | FEB 16/96       |    |
| 04-7                  | 32-10-04, PAGES 1 THRU 16 (SUPERSEDED<br>BY TR 04-10) | NOV 30/95  |    | FEB 16/96       |    |
| 04-8                  | 32-10-02, PAGES 1 THRU 8                              | FEB 16/96  |    | MAR 15/96       |    |
| 04-9                  | 32-10-03, PAGES 1 THRU 9                              | FEB 16/96  |    | MAR 15/96       |    |
| 04-10                 | 32-10-04, PAGES 1 THRU 18                             | FEB 16/96  |    | MAR 15/96       |    |
| 04-11                 | 71-20-01, PAGES 1 THRU 14                             | DEC 12/96  |    | MAR 15/97       |    |
| 04-12                 | 32-20-02, PAGES 1 THRU 6                              | JUL 30/99  |    | SEP 15/99       |    |
| 04-13                 | 32-10-05, PAGES 1 THRU 9                              | MAR 21/02  |    | MAY 15/02       |    |
| 04-14                 | 32-10-06, PAGES 4, 5, 9                               | FEB 23/06  |    | SEP 15/06       |    |

## INTRODUCTION



767

## NONDESTRUCTIVE TEST MANUAL

| TEMPORARY<br>REV. NO. | PAGE NUMBER                                           | ISSUE DATE | BY | DATE<br>REMOVED | BY |
|-----------------------|-------------------------------------------------------|------------|----|-----------------|----|
| 04-15                 | 32-10-06, PAGES 2 THRU 10                             | APR 15/06  |    | SEP 15/06       |    |
| 04-16                 | 32-00-01, PAGES 1 THRU 15                             | JUN 8/06   |    | SEP 15/06       |    |
|                       |                                                       |            |    |                 |    |
| PART 5                |                                                       |            |    |                 |    |
|                       |                                                       |            |    |                 |    |
| PART 6                |                                                       |            |    |                 |    |
| 06-1                  | 53-60-01, PAGES 1 THRU 11                             | APR 2/86   |    | JUN 15/86       |    |
| 06-2                  | 22-10-01, PAGES 1 THRU 5                              | FEB 26/88  |    | MAR 15/88       |    |
| 06-3                  | 22-10-01, PAGES 1 THRU 3                              | APR 18/88  |    | JUN 15/88       |    |
| 06-04                 | 53-80-01, PAGES 1 THRU 5                              | JUN 12/89  |    | SEP 15/89       |    |
| 06-05                 | 53-80-02, PAGES 1 THRU 8                              | JUN 12/89  |    | SEP 15/89       |    |
| 06-06                 | 53-80-01, PAGES 1 THRU 5                              | JUL 31/89  |    | SEP 15/89       |    |
| 06-7                  | 54-51-01, PAGES 1 THRU 12                             | APR 5/94   |    | JUN 15/94       |    |
| 06-8                  | 32-10-01, PAGES 1 THRU 13 (SUPERSEDED<br>BY TR 06-10) | NOV 30/95  |    | FEB 16/96       |    |
| 06-9                  | 32-10-02, PAGES 1 THRU 7 (SUPERSEDED<br>BY TR 06-11)  | NOV 30/95  |    | FEB 16/96       |    |
| 06-10                 | 32-10-01, PAGES 1 THRU 13                             | FEB 16/96  |    | MAR 15/96       |    |
| 06-11                 | 32-10-02, PAGES 1 THRU 7                              | FEB 16/96  |    | MAR 15/96       |    |
| 06-12                 | 53-80-04, PAGES 1 THRU 11                             | OCT 30/98  |    | JAN 15/99       |    |
| 06-13                 | 53-80-04, PAGES 1 THRU 23                             | AUG 1/00   |    | SEP 15/00       |    |
| 06-14                 | 53-80-04, PAGES 10, 11, 17                            | APR 4/01   |    | MAY 15/01       |    |
| 06-15                 | 57-50-01, PAGES 1 THRU 10                             | MAR 21/02  |    | MAY 15/02       |    |
| 06-16                 | 53-00-07, PAGES 1 THRU 14                             | JAN 29/04  |    | MAY 15/04       |    |
| 06-17                 | 53-80-06, PAGES 1 THRU 6                              | DEC 8/06   |    | JAN 15/07       |    |
|                       |                                                       |            |    |                 |    |
| PART 9                |                                                       |            |    |                 |    |
| 09-1                  | 57-50-01, PAGES 1 THRU 9                              | OCT 30/98  |    | JAN 15/99       |    |

Table 2 Maintenance Planning Data (MPD) to Nondestructive Test Manual Cross-Reference

| MAINTENANCE PLANNING DATA<br>REFERENCE | D634T301 REF |          |
|----------------------------------------|--------------|----------|
|                                        | PART         | SUBJECT  |
| 55-484-00                              | 4            | 55-20-01 |
|                                        | 4            | 55-20-02 |

## INTRODUCTION

D634T301

Page 3  
Dec 15/2008



**767**  
**NONDESTRUCTIVE TEST MANUAL**

(Continued)

| MAINTENANCE PLANNING DATA<br>REFERENCE | D634T301 REF |          |
|----------------------------------------|--------------|----------|
|                                        | PART         | SUBJECT  |
| 55-538-00                              | 4            | 55-20-01 |
|                                        | 4            | 55-20-02 |
| 5520-337-04E                           | 4            | 55-20-01 |
|                                        | 4            | 55-20-02 |
|                                        | 4            | 55-20-03 |
| 5520-347-04E                           | 4            | 55-20-01 |
|                                        | 4            | 55-20-02 |
|                                        | 4            | 55-20-03 |
| 5540-325-04E                           | 4            | 55-40-01 |
|                                        | 4            | 55-40-02 |
|                                        | 4            | 55-40-03 |

Table 3 Service Bulletin (SB) to Nondestructive Test Manual Cross-Reference

| SERVICE BULLETIN REFERENCE | D634T301 REF |          |
|----------------------------|--------------|----------|
|                            | PART         | SUBJECT  |
| 22-0027                    | 6            | 22-10-01 |
| 27A0095                    | 4            | 27-80-01 |
| 27-0103                    | 6            | 57-60-01 |
| 27A0183                    | 6            | 57-50-01 |
| 27-0184                    | 6            | 57-50-01 |
| 32-0021                    | 4            | 32-10-01 |
| 32-0088                    | 4            | 32-20-01 |
| 32A0151                    | 4            | 32-10-02 |
|                            | 4            | 32-10-03 |
|                            | 4            | 32-10-04 |
|                            | 6            | 32-10-01 |
|                            | 6            | 32-10-02 |
| 32A0185                    | 4            | 32-20-02 |
| 32A0196                    | 4            | 32-10-05 |
| 32A0199                    | 4            | 32-10-06 |
| 51-0008                    | 2            | 51-00-01 |
| 52-0019                    | 4            | 52-30-01 |

## INTRODUCTION



767

## NONDESTRUCTIVE TEST MANUAL

| SERVICE BULLETIN REFERENCE | D634T301 REF |          |
|----------------------------|--------------|----------|
|                            | PART         | SUBJECT  |
| 53-0023                    | 6            | 53-60-01 |
| 53A0026                    | 6            | 53-80-01 |
|                            | 6            | 53-80-02 |
| 53-0069                    | 6            | 53-10-06 |
| 53-0078                    | 6            | 53-80-04 |
| 53-0093                    | 6            | 53-10-06 |
| 53-0096                    | 6            | 53-10-06 |
| 53A0100                    | 4            | 53-50-05 |
| 53A0147                    | 6            | 53-80-06 |
| 54A0062                    | 6            | 54-51-01 |
| 54-0072                    | 4            | 54-50-01 |
|                            | 4            | 54-50-02 |
| 54-0074                    | 6            | 54-51-02 |
| 54-0080                    | 6            | 57-04-01 |
| 54-0081                    | 6            | 57-04-01 |
| 54-0082                    | 6            | 57-04-01 |
| 54A0094                    | 4            | 54-50-03 |
| 55-0005                    | 4            | 55-10-01 |
| 57-0039                    | 4            | 57-40-01 |
| 57-0053                    | 4            | 57-40-02 |
| 57-0061                    | 9            | 57-50-01 |
| 57-0062                    | 9            | 57-50-01 |
| 57-0063                    | 6            | 57-04-01 |
| 71A0087                    | 4            | 71-20-01 |

Table 4 Maintenance Planning Data (MPD) Appendix B Damage Tolerance Rating (DTR) Check Form to Nondestructive Test Manual Cross-Reference

| DTR<br>CHECK FORM<br>REF | D634T301 REF |          |
|--------------------------|--------------|----------|
|                          | PART         | SUBJECT  |
| 27-40-I01                | 4            | 27-40-01 |
| 53-10-I07                | 6            | 53-10-18 |
| 53-10-I07                | 6            | 53-10-19 |
| 53-10-I07                | 6            | 53-10-20 |

## INTRODUCTION

D634T301

Page 5  
Dec 15/2008



**767**  
**NONDESTRUCTIVE TEST MANUAL**

(Continued)

| DTR<br>CHECK FORM<br>REF | D634T301 REF |          |
|--------------------------|--------------|----------|
|                          | PART         | SUBJECT  |
| 53-10-I10A               | 6            | 53-10-07 |
| 53-10-I10B               | 6            | 53-10-08 |
| 53-10-I12                | 6            | 53-10-17 |
| 53-10-I13                | 6            | 53-10-16 |
| 53-10-I14A               | 6            | 53-10-11 |
| 53-10-I16                | 6            | 53-10-12 |
| 53-10-I18A               | 6            | 53-10-05 |
| 53-10-I18A               | 6            | 53-10-09 |
| 53-10-I18B               | 4            | 53-10-01 |
| 53-10-I18B               | 6            | 53-10-09 |
| 53-10-I20B               | 6            | 53-10-14 |
| 53-10-I20C               | 6            | 53-10-15 |
| 53-10-I21A               | 6            | 53-10-04 |
| 53-10-I21B               | 6            | 53-10-10 |
| 53-10-I21B               | 6            | 53-10-13 |
| 53-10-I21C               | 6            | 53-10-10 |
| 53-10-I21C               | 6            | 53-10-13 |
| 53-10-I21D               | 4            | 53-10-02 |
| 53-10-I21D               | 6            | 53-10-13 |
| 53-30-I04                | 6            | 53-10-18 |
| 53-30-I04                | 6            | 53-10-19 |
| 53-30-I04                | 6            | 53-10-20 |
| 53-30-I05                | 6            | 53-30-06 |
| 53-30-I14A               | 6            | 53-30-07 |
| 53-30-I14E               | 6            | 53-60-07 |
| 53-30-I19A               | 6            | 53-30-08 |
| 53-30-I19B               | 4            | 53-30-01 |
| 53-30-I19B               | 6            | 53-30-08 |
| 53-30-I19B               | 6            | 53-30-09 |
| 53-30-I19C               | 6            | 53-30-08 |
| 53-30-I19D               | 6            | 53-30-10 |

## INTRODUCTION



**767**  
**NONDESTRUCTIVE TEST MANUAL**

(Continued)

| DTR<br>CHECK FORM<br>REF | D634T301 REF |          |
|--------------------------|--------------|----------|
|                          | PART         | SUBJECT  |
| 53-30-I19E               | 6            | 53-30-10 |
| 53-30-I19F               | 6            | 53-30-11 |
| 53-30-I19F               | 6            | 53-30-12 |
| 53-30-I19G               | 6            | 53-30-10 |
| 53-30-I19G               | 6            | 53-30-11 |
| 53-30-I20A               | 6            | 53-30-13 |
| 53-30-I21                | 6            | 53-30-06 |
| 53-30-I22C               | 6            | 53-30-15 |
| 53-30-I22D               | 6            | 53-30-16 |
| 53-30-I27                | 6            | 53-30-06 |
| 53-50-I03                | 6            | 53-30-06 |
| 53-50-I06A               | 6            | 53-50-07 |
| 53-50-I06B               | 4            | 53-50-04 |
| 53-50-I06B               | 6            | 53-50-08 |
| 53-50-I06C               | 6            | 53-50-07 |
| 53-50-I06D               | 4            | 53-50-04 |
| 53-50-I06D               | 6            | 53-50-08 |
| 53-50-I06F               | 4            | 53-50-04 |
| 53-50-I11                | 6            | 53-50-10 |
| 53-50-I13B               | 4,6          | 53-50-01 |
| 53-50-I13C               | 6            | 53-50-04 |
| 53-50-I14A               | 6            | 53-50-06 |
| 53-50-I14B               | 4            | 53-50-03 |
| 53-50-I14C               | 4,6          | 53-50-02 |
| 53-50-I18                | 6            | 53-50-11 |
| 53-50-I18                | 6            | 53-50-12 |
| 53-50-I19                | 6            | 53-50-05 |
| 53-50-I22A               | 6            | 53-50-07 |
| 53-50-I22B               | 4            | 53-50-04 |
| 53-50-I22B               | 6            | 53-50-08 |
| 53-50-I22C               | 6            | 53-50-07 |

## INTRODUCTION



**767**  
**NONDESTRUCTIVE TEST MANUAL**

(Continued)

| <b>DTR<br/>CHECK FORM<br/>REF</b> | <b>D634T301 REF</b> |                |
|-----------------------------------|---------------------|----------------|
|                                   | <b>PART</b>         | <b>SUBJECT</b> |
| 53-50-I22D                        | 4                   | 53-50-04       |
| 53-50-I22D                        | 6                   | 53-50-08       |
| 53-50-I22E                        | 6                   | 53-50-09       |
| 53-50-I22F                        | 4                   | 53-50-04       |
| 53-50-I24                         | 6                   | 53-50-11       |
| 53-50-I24                         | 6                   | 53-50-12       |
| 53-50-I25A                        | 6                   | 53-50-07       |
| 53-50-I25B                        | 4                   | 53-50-04       |
| 53-50-I25B                        | 6                   | 53-50-08       |
| 53-50-I25C                        | 6                   | 53-50-07       |
| 53-50-I25D                        | 4                   | 53-50-04       |
| 53-50-I25D                        | 6                   | 53-50-08       |
| 53-50-I25E                        | 6                   | 53-50-09       |
| 53-50-I25F                        | 4                   | 53-50-04       |
| 53-60-I03                         | 6                   | 53-30-06       |
| 53-60-I05                         | 6                   | 53-10-18       |
| 53-60-I05                         | 6                   | 53-10-19       |
| 53-60-I05                         | 6                   | 53-10-20       |
| 53-60-I05                         | 6                   | 53-30-06       |
| 53-60-I06B                        | 6                   | 53-60-05       |
| 53-60-I06D                        | 6                   | 53-60-06       |
| 53-60-I06E                        | 6                   | 53-60-07       |
| 53-60-I10A                        | 6                   | 53-60-02       |
| 53-60-I10B                        | 4                   | 53-60-01       |
| 53-60-I14D                        | 6                   | 53-60-06       |
| 53-60-I14E                        | 6                   | 53-60-04       |
| 53-60-I14F                        | 6                   | 53-60-03       |
| 53-60-I26                         | 6                   | 53-30-06       |
| 53-60-I27A                        | 6                   | 53-60-08       |
| 53-60-I27B                        | 6                   | 53-60-09       |
| 53-60-I27C                        | 6                   | 53-60-09       |

## INTRODUCTION



**767**  
**NONDESTRUCTIVE TEST MANUAL**

(Continued)

| DTR<br>CHECK FORM<br>REF | D634T301 REF |          |
|--------------------------|--------------|----------|
|                          | PART         | SUBJECT  |
| 53-80-I01A               | 6            | 53-80-05 |
| 53-80-I01B               | 6            | 53-80-02 |
| 53-80-I01C               | 6            | 53-80-01 |
| 53-80-I01D               | 6            | 53-80-02 |
| 53-80-I01E               | 6            | 53-80-01 |
| 53-80-I03                | 4            | 53-80-01 |
| 53-80-I13                | 4            | 53-80-02 |
| 53-80-I15                | 6            | 53-80-04 |
| 53-80-I16                | 6            | 53-80-04 |
| 53-80-I17                | 6            | 53-80-04 |
| 53-80-I25                | 6            | 53-80-03 |
| 54-50-I01                | 6            | 54-50-02 |
| 54-50-I03                | 6            | 54-50-01 |
| 54-50-I04                | 6            | 54-50-02 |
| 54-50-I05                | 4            | 54-50-05 |
| 54-50-I06                | 4            | 54-50-06 |
| 55-10-I09                | 4            | 55-10-02 |
| 55-10-I13A               | 6            | 55-10-03 |
| 55-10-I13B               | 2            | 55-10-01 |
| 55-10-I13B               | 6            | 55-10-01 |
| 55-10-I13B               | 6            | 55-10-02 |
| 55-10-I13C               | 2            | 55-10-01 |
| 55-10-I13C               | 6            | 55-10-02 |
| 55-10-I14A               | 4            | 55-10-04 |
| 55-10-I14B               | 6            | 55-10-05 |
| 55-10-I31                | 4            | 55-10-03 |
| 55-10-I31                | 6            | 55-10-04 |
| 57-10-I03A               | 6            | 57-10-01 |
| 57-10-I03A               | 6            | 57-10-02 |
| 57-10-I03B               | 6            | 57-10-01 |
| 57-10-I03C               | 4            | 57-10-02 |

## INTRODUCTION



**767**  
**NONDESTRUCTIVE TEST MANUAL**

(Continued)

| <b>DTR<br/>CHECK FORM<br/>REF</b> | <b>D634T301 REF</b> |                |
|-----------------------------------|---------------------|----------------|
|                                   | <b>PART</b>         | <b>SUBJECT</b> |
| 57-10-I03C                        | 6                   | 57-10-04       |
| 57-10-I16                         | 4                   | 57-10-01       |
| 57-10-I20                         | 6                   | 57-10-03       |
| 57-10-I24                         | 4                   | 57-10-03       |
| 57-20-I12A AND B                  | 4                   | 57-20-01       |
| 57-20-I15A                        | 6                   | 57-20-01       |
| 57-20-I15A                        | 6                   | 57-20-02       |
| 57-20-I15B                        | 6                   | 57-20-01       |
| 57-20-I15B                        | 6                   | 57-20-02       |
| 57-20-I15C                        | 6                   | 57-20-02       |
| 57-20-I15D AND E                  | 6                   | 57-20-01       |
| 57-20-I16A                        | 6                   | 57-20-03       |
| 57-20-I16A                        | 6                   | 57-20-04       |
| 57-20-I16B                        | 4                   | 57-20-02       |
| 57-20-I16B                        | 6                   | 57-20-03       |
| 57-20-I16C                        | 4                   | 57-20-02       |
| 57-20-I16C                        | 6                   | 57-20-06       |
| 57-20-I16D                        | 6                   | 57-20-04       |
| 57-20-I16E                        | 4                   | 57-20-02       |
| 57-20-I16E                        | 6                   | 57-20-05       |
| 57-20-I16E                        | 6                   | 57-20-06       |
| 57-20-I16F                        | 6                   | 57-20-07       |
| 57-20-I16G                        | 4                   | 57-20-03,      |
| 57-20-I16G                        | 6                   | 57-20-08       |
| 57-20-I16H                        | 4                   | 57-20-03       |
| 57-50-I04AA                       | 4                   | 57-50-04       |
| 57-50-I04AA                       | 4                   | 57-50-08       |
| 57-53-I02A.3                      | 6                   | 57-50-02       |
| 57-53-I02B                        | 4                   | 57-50-01       |
| 57-53-I02C                        | 6                   | 57-50-03       |
| 57-53-I02C                        | 6                   | 57-50-04       |

## INTRODUCTION

Page 10  
Dec 15/2008

D634T301

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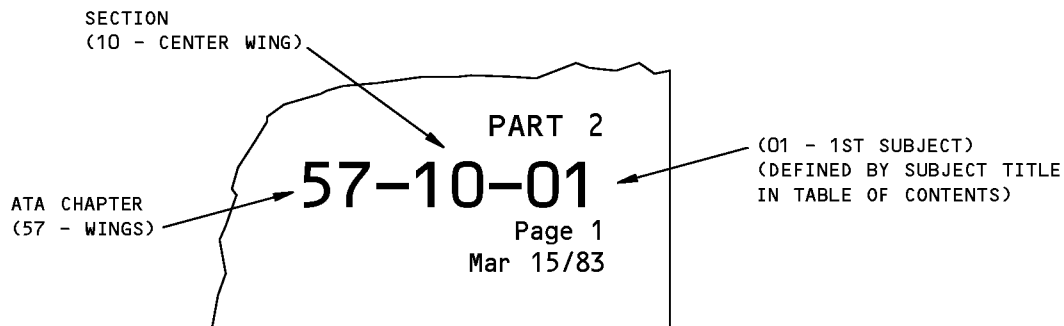
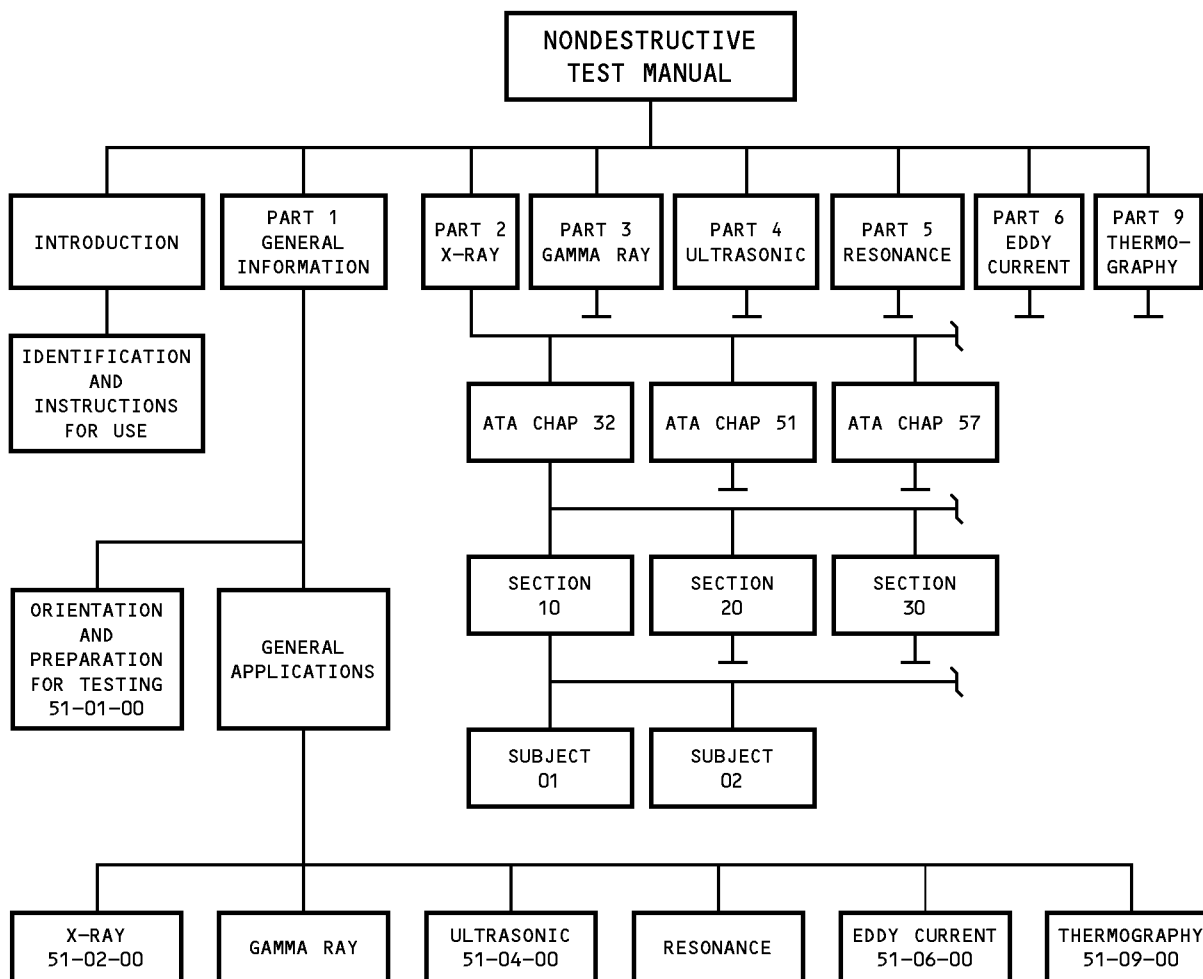
**767**  
**NONDESTRUCTIVE TEST MANUAL**

(Continued)

| <b>DTR<br/>CHECK FORM<br/>REF</b> | <b>D634T301 REF</b> |                |
|-----------------------------------|---------------------|----------------|
|                                   | <b>PART</b>         | <b>SUBJECT</b> |
| 57-53-I02G.1                      | 6                   | 57-50-05       |
| 57-53-I02G.3                      | 4                   | 57-50-02       |
| 57-53-I02L.1                      | 4                   | 57-50-03       |
| 57-53-I02M.6                      | 4                   | 57-50-04       |
| 57-53-I02M.6                      | 4                   | 57-50-05       |
| 57-53-I03I.1                      | 6                   | 57-50-06       |
| 57-53-I04C                        | 4                   | 57-50-06       |
| 57-53-I04K.2                      | 6                   | 57-50-07       |
| 57-53-I04N.3                      | 4                   | 57-50-04       |
| 57-53-I04N.3                      | 4                   | 57-50-05       |
| 57-53-I04N.4                      | 4                   | 57-50-07       |

## INTRODUCTION

# 767 NONDESTRUCTIVE TEST MANUAL



Manual Layout  
Figure 1

## INTRODUCTION