SERVICE BULLETIN REVISION NOTICE

NACELLE - EXHAUST - PRESSURE RELIEF DOOR LATCH LOAD, THRUST REVERSER, INSPECTION OF
(NON-MODIFICATION)

Turbojet Engine Service Bulletin No. V2500-NAC-78-0162 Revision No. 1 dated May 9, 2017

Revision History

Original Issue July 06, 1998

Revision 1 dated May 9, 2017

Reason for the Revision

The information contained in this Service Bulletin has been superseded by the instructions provided in Boeing MD-90 Aircraft Maintenance Manual, Task 78-32-09-720-801. It is no longer necessary to do this Service Bulletin or Original Issue of this Service Bulletin.

Effect of Revision on Prior Compliance

None.

This is a Complete Revision (Not Applicable to the SGML version)

The format of this Service Bulletin has not been changed from the Original Issue. See Reason for the Revision above.

MODEL APPLICATION
V2525-D5, V2528-D5

BULLETIN ISSUE SEQUENCE
V2500 Series 78-0162

Page	Revision No.	Date
1 thru 6	1	May 9/17

A copy of this Revision Notice and any future revision notices must be filed as a permanent record with your copy of the subject bulletin.

NO TECHNICAL DATA SUBJECT TO THE EAR OR ITAR.

TRANSMITTAL

IAE Propulsion System
NON-MODIFICATION SERVICE BULLETIN

NACELLE - EXHAUST - PRESSURE RELIEF DOOR LATCH LOAD, THRUST REVERSER, INSPECTION OF (NON-MODIFICATION)

MODEL APPLICATION

V2500-D5

BULLETIN INDEX LOCATOR

78-00-00

Compliance Category Code	Internal Reference No.
4	N/A

NACELLE - EXHAUST - PRESSURE RELIEF DOOR LATCH LOADS, THRUST REVERSER, INSPECTION OF
(NON-MODIFICATION)

Planning Information

A. Effectivity

(1) Aircraft: MD-90

(2) Nacelle: All V2500-D5 thrust reversers.

B. Concurrency Requirements

If applicable, you must do Service Bulletin V2500-NAC-78-0114 before you do this service bulletin.

C. Reason

An MD-90 operator has reported an incident of inadvertent pressure relief door opening during flight. As a precautionary measure, it is recommended to inspect, and adjust if necessary, the pressure relief door latch release loads.

D. Compliance

Category 4

Accomplish at the first visit of the Nacelle or Nacelle Component to a maintenance base capable of compliance with the accomplishment instructions regardless of the planned maintenance action for the Nacelle or Nacelle Component.

E. Approval

The compliance statement and the procedures described in this service bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA approved for the engine model listed.

F. Action

(1) Find the average closed-door latch-release load as follows:

(a) Install the IAE 1N20054 torque adapter on the torque wrench.

(b) Put the torque adapter into the slot of the latch bolt. The torque adapter must rest evenly on the latch bolt. Refer to Figure 1.

(c) Apply force to the torque wrench until the latch releases. Make sure you apply force at 90 degrees to the torque wrench handle as shown in Figure 2. Make a record of the torque wrench indication (T).

(d) Use the indication from the torque wrench (T) and the following formula to calculate the latch release load (LRL) or use the values in Table 1 which have been calculated for a specific wrench effective length (L):

$$LRL = \frac{T \times (L + 1.250)}{0.561 \times L} + 16.0$$

Where: LRL = Latch Release Load
L = Distance (in inches) from the centerline of the torque wrench drive to the center of the operators hand (wrench effective length). Refer to Figure 2.
T = Torque wrench indication (in inch-pounds)

Wrench Effective Length (L)	Torque Indication (T)	Latch Release Load (LRL)
8 inch	152-171 in-lbs	329-369 lbs
10 inch	156-176 in-lbs	329-369 lbs
12 inch	159-179 in-lbs	329-369 lbs
14 inch	161-184 in-lbs	329-369 lbs

Table 1

(e) Close and latch the thrust reverser pressure relief door.

(f) Repeat steps 1.(a) thru 1.(e) four times for each latch.

(g) Add the four calculated latch release loads together and divide the sum by four; this value is the average closed-door latch-release load for each individual latch.

1 If the average closed-door latch-release load is less than 329 lbs, adjust the latch release mechanism of the latches to 329-369 lbs as instructed in paragraph 2 and notify BFGoodrich Aerostructures Group or IAE that an adjustment was necessary.

(2) Adjust the latch-release load of the pressure relief door latches.

(a) Remove the lockwire from the latch release mechanism adjusting screw. Refer to Figure 3.

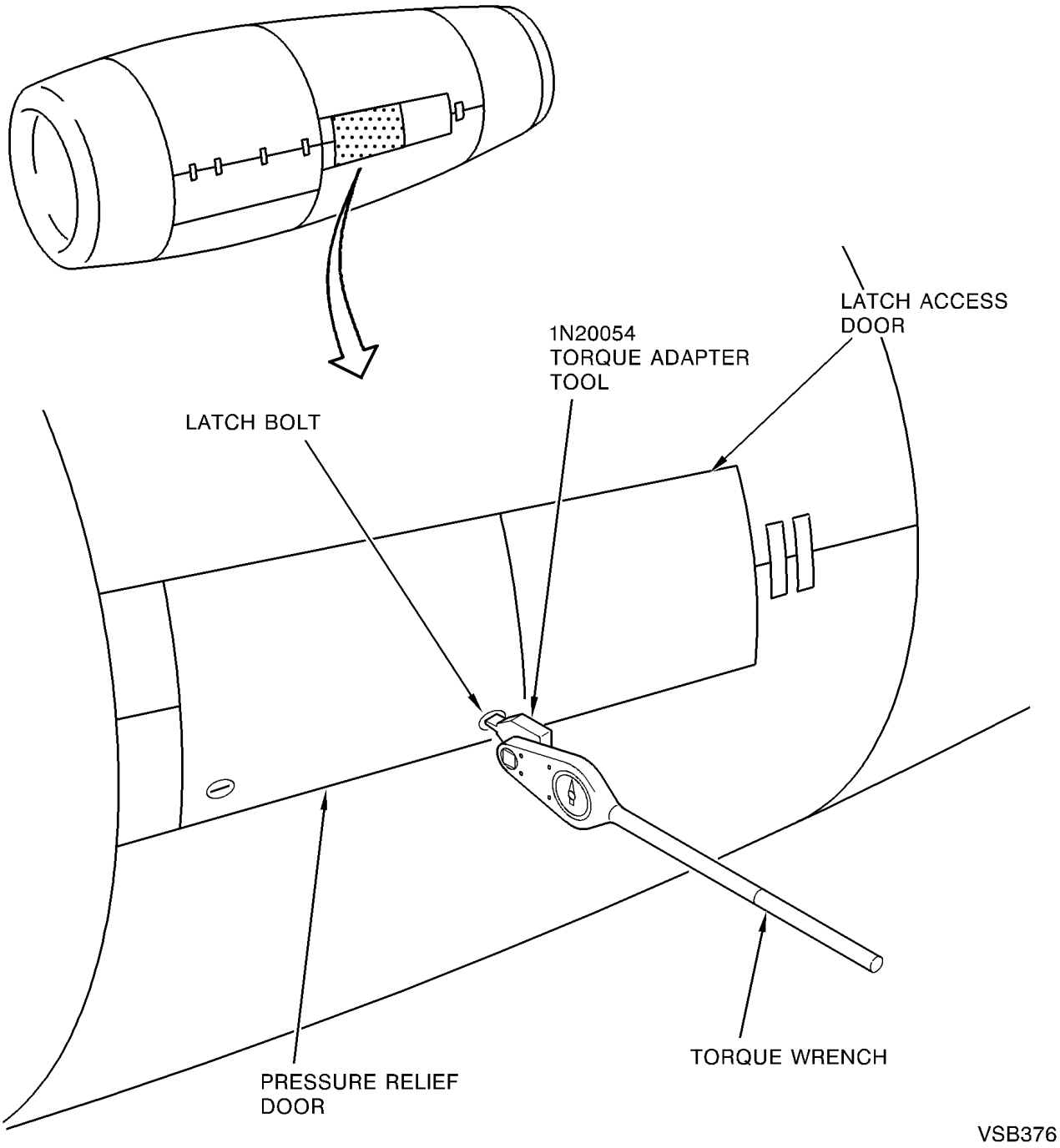
(b) Tighten the adjusting screw as necessary.

(c) Repeat the procedures in paragraph (1) to find the average closed-door latch-release load after adjustment.

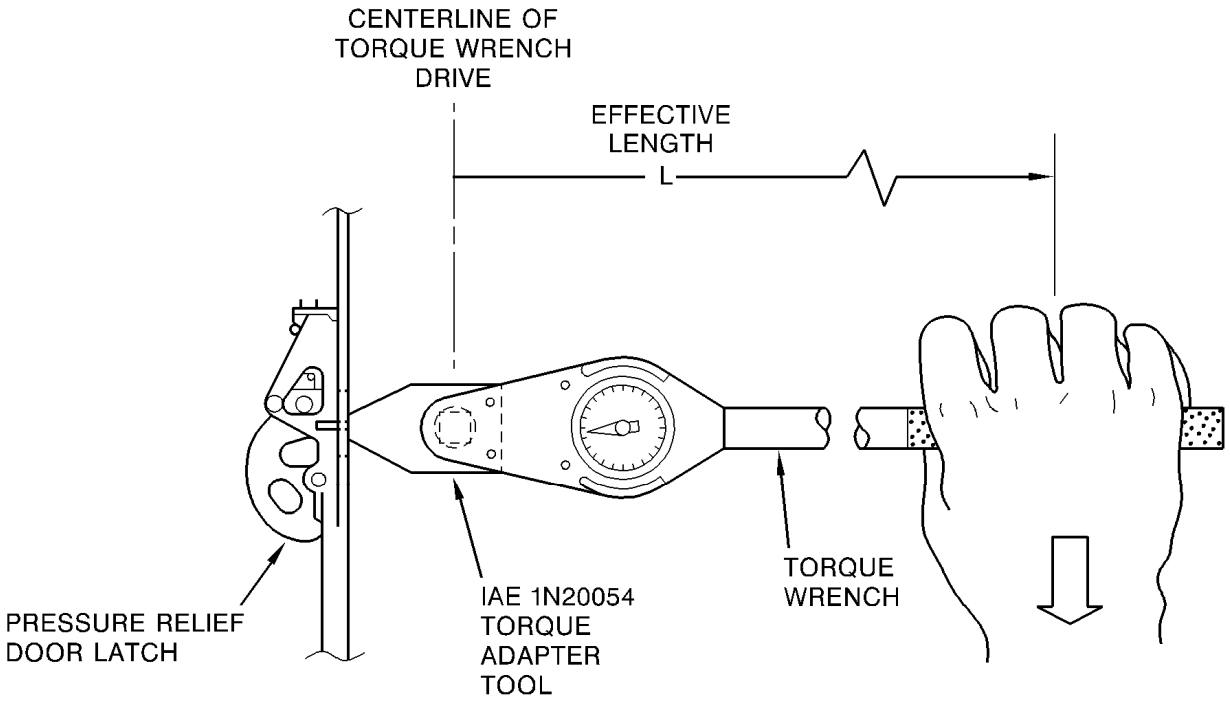
(d) Repeat steps (2)(b) and (2)(c) as necessary to get the correct latch-release load.

(e) Safetywire the adjusting screw to the adjusting plate with 0.032 inch (0.813 mm) diameter lockwire (CoMat 02-147). Refer to the IAE Standard Practices/Processes Manual, Chapter 70-42-05.

G. A record of accomplishment is necessary.



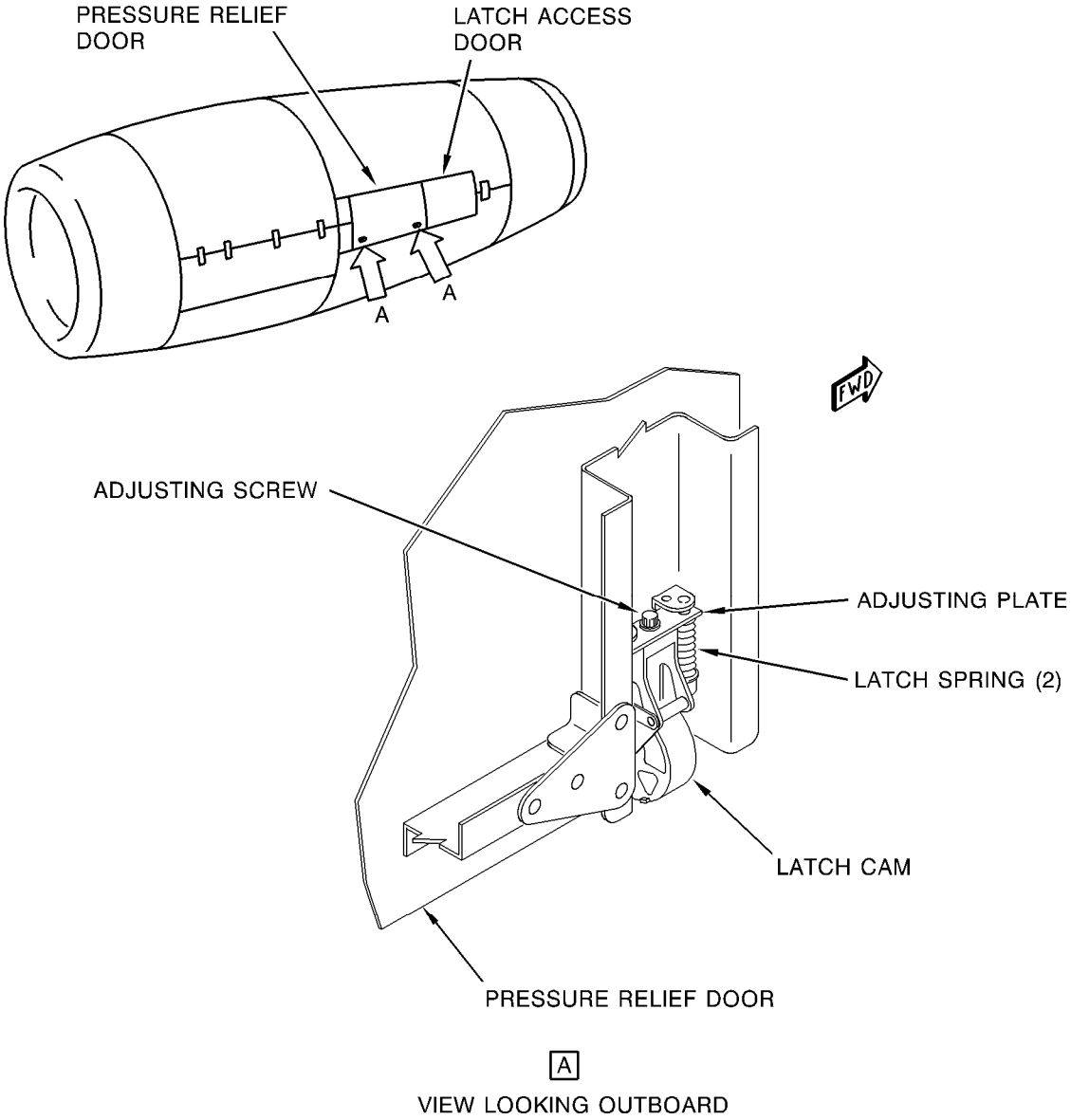
Latch Release Load Measurement
Figure 1



USAGE: TO ENSURE PRESSURE RELIEF DOOR LATCHES ARE NOT SEIZED AND WILL RELEASE AT RATED LOADS - USE 1/2" DRIVE TORQUE WRENCH.

VSB375

Latch Release Load Measurement
Figure 2



Latch Release Mechanism Adjustment
Figure 3