

# SERVICE BULLETIN REVISION NOTICE

AIR — BLEED VALVE, 10TH STAGE HIGH PRESSURE COMPRESSOR (HPC) — INTRODUCTION  
OF ALTERNATE BLEED VALVE

Turbojet Engine Service Bulletin No. V2500-ENG-75-0125 Revision No. 2 dated March 11, 2019.

## Revision History

Original Issue April 20, 2016

Revision 1 dated November 6, 2018

Revision 2 dated March 11, 2019

## Reason for the Revision

To correct the V2500-A5 Effectivity Data by removing the requirement that Engine Serial Nos.V10001 thru V13190 and V15001 have previously incorporated Service Bulletin No. V2500-ENG-72-0565.

To remove reference to Service Bulletin No. V2500-ENG-72-0565 and renumber the references throughout the 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 been changed from previous versions. This revision shows flow bars and the revision date on the bottom of every page. Technical changes incorporated in this revision are marked with revision bars. The contents are in accordance with the list of effective pages.

## MODEL APPLICATION

V2500-A1, V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5, V2525-D5, V2528-D5

## BULLETIN ISSUE SEQUENCE

V2500 Series 75-0125

<u>Page</u>	<u>Revision No.</u>	<u>Date</u>
1 thru 13	2	March 11/19

**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.**

**V2500-ENG-75-0125**

Page 1 of 1



# SERVICE BULLETIN

AIR — BLEED VALVE, 10TH STAGE HIGH PRESSURE COMPRESSOR (HPC) —  
INTRODUCTION OF ALTERNATE BLEED VALVE

## MODEL APPLICATION

V2500-A1, V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5,  
V2533-A5, V2525-D5, V2528-D5

## BULLETIN ISSUE SEQUENCE

V2500 Series 75-0125

## ATA NUMBER

75-32-54

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Export Classification: Not subject to the EAR per 15 C.F.R. Chapter 1, Part 734.3(b)(3).

## Compliance Category

8

## P&W Distribution Code

V2500

April 20/16

REVISION NO. 2 - March 11/19

# V2500-ENG-75-0125

Page 1 of 13

## Summary

The purpose of this Service Bulletin is to introduce a Meggitt 10th stage HPC bleed valve common with the current Meggitt provided 7th stage HPC bleed valve as an alternate to the current Parker Hannifin Corporation 10th stage HPC bleed valve. PN EB101729B was designed by Meggitt to be a common valve between 7th and 10th stage location in response to a common performance specification but was certified for use only at the 7th stage location in 2008.

## Planning Information

### Effectivity Data

#### Engine Models Applicable

V2500-A1

Engine Serial Nos. V0001 thru V0362

V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5

Engine Serial Nos. V10001 thru V13190

Engine Serial No. V15001 thru V18256

V2525-D5, V2528-D5

Engine Serial Nos. V20001 thru V20285

### Concurrent Requirements

For V2500-A1, V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5 Engines:

This Service Bulletin must be done at the same time or after Reference 7, Service Bulletin No. V2500-ENG-75-0093.

For V2525-D5, V2528-D5 Engines:

This Service Bulletin must be done at the same time or after Reference 11, Service Bulletin No. V2500-ENG-75-0069.

### Reason

1. Condition: A Meggitt 10th stage HPC bleed valve common with the current Meggitt provided 7th stage HPC bleed valve is being introduced as an alternate to the current Parker Hannifin Corporation 10th stage HPC bleed valve.
2. Background: PN EB101729B was designed by Meggitt to be a common valve between 7th and 10th stage location in response to a common performance specification but was certified for use only at the 7th stage location in 2008. Engineering Change 13VI007 (Reference 8, Service Bulletin V2500-ENG-75-0123) introduced Meggitt 10th Stage HPC Bleed Valve, PN EB101729C to the 7th stage HPC bleed valve location that incorporated a carbon bushing improvement.
3. Objective: To introduce the Meggitt 10th Stage HPC Bleed Valve, PN EB101729C as an alternative to the current 10th Stage HPC Bleed Valve, PN 5950041-108.
4. Substantiation: The means of compliance for the Meggitt 10th stage HPC bleed valve is by similarity and analysis. The installation interface between Parker 10th Stage HPC Bleed Valve, PN 5950041-108 and Meggitt 10th Stage HPC Bleed Valve, PN EB101729C is the same. The 10th stage HPC bleed valve was subject of satisfactory testing and analysis.
5. Effects of Bulletin on:

April 20/16

REVISION NO. 2 - March 11/19

# V2500-ENG-75-0125

Page 2

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Removal/Installation: Not affected

Disassembly/Assembly: Not affected.

Cleaning: Not affected.

Inspection/Check: Not affected.

Repair: Not affected.

Testing: Not affected.

6. Supplemental Information

None.

Description

Use as alternate to existing 10th stage HPC bleed valve.

Compliance

Category 8

Accomplish based upon experience with the prior configuration.

Approval Data

The part number changes and/or part modifications specified in the Accomplishment Instructions and Material Information sections of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model(s) given.

The aircraft Type Certificate (TC) holder has been informed of this change.

Manpower

1. In Service

..... Not Applicable.

2. At Overhaul

..... Not Applicable.

Weight and Balance

1. Weight Change

+ 0.3 Pound(s) (+ 0.14 kg)

2. Moment Arm

No Effect.

3. Datum

Engine Front Mount Centerline (Power Plant Station (PPS) 100)

Electrical Load Data

This Service Bulletin has no effect on the aircraft electrical load.

Software Accomplishment Summary

Not Applicable.

April 20/16

REVISION NO. 2 - March 11/19

V2500-ENG-75-0125

Page 3

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## References

NOTE: In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, a Technical Publications conversion table is provided in the Appendix.

1. ATA Locator — 75-32-54.
2. V2500-A1 Series Illustrated Parts Catalog, P&W Ref. PN 2A4427, Chapter/Section 75-32-54.
3. V2500-A5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4428, Chapter/Section 75-32-54.
4. V2500 A1/A5 Component Maintenance Manual, P&W Ref. PN 2A4412, Chapter/Section 75-32-52.
5. V2500 Service Bulletin V2500-ENG-75-0054 (Air — HP Compressor Stage 10 Bleed Valves — Introduction Of Chevron Seals And New Valve Centre Stem Bushing).
6. V2500 Service Bulletin V2500-ENG-75-0085 (Air — HP Compressor Stage 10 Bleed Valve — Introduction Of Parker Hannifin Corporation Supplied Bleed Valve).
7. V2500 Service Bulletin V2500-ENG-75-0093 (Engine — HP Compressor — Introduction Of A Revised HPC Stage 7A And 10 Bleed Valve Silencer With Increased Height).
8. V2500 Service Bulletin V2500-ENG-75-0123 (Air — Bleed Valves, 7th Stage High Pressure Compressor (HPC) — Replace The Bleed Valves To Improve Reliability).
9. V2500-D5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4426, Chapter/Section 75-32-52.
10. V2500 D5 Component Maintenance Manual, P&W Ref. PN 2A4423, Chapter/Section 75-32-52.
11. V2500 Service Bulletin V2500-ENG-75-0069 (Air — HPC Stage 10 Bleed Valves — Introduction Of Revised Bleed Valve Silencer With Integral Seal Land).

## Other Publications Affected

NOTE: In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, a Technical Publications conversion table is provided in the Appendix.

1. V2500-A1 Series Illustrated Parts Catalog, P&W Ref. PN 2A4427, Chapter/Section 75-32-54.
2. V2500-A5 Series Illustrated Parts Catalog, P&W Ref. PN 2A4428, Chapter/Section 75-32-54.
3. V2500 A1/A5 Component Maintenance Manual, P&W Ref. PN 2A4412, Chapter/Section 75-32-52.
4. V2500 D5 Component Maintenance Manual, P&W Ref. PN 2A4423, Chapter/Section 75-32-52.

April 20/16

REVISION NO. 2 - March 11/19

# V2500-ENG-75-0125

Page 4

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Interchangeability of Parts

Old and new parts are freely and fully interchangeable.

Information in the Appendix

Alternate Accomplishment Instructions (No)

Progression Charts (Yes)

Added Data (Yes)

Revision to Table of Limits (No)

Inspection Procedures (No)

April 20/16

REVISION NO. 2 - March 11/19

V2500-ENG-75-0125

Page 5

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## Material Information

### Material — Price and Availability

1. Part prices were not available at the time of Service Bulletin publication. Contact IAE Spares Management & Logistics for firm quotations.
2. There is no kit provided to do this Service Bulletin.
3. Part availability information is provided in material data Instructions — Disposition.

### Industry Support Program

Not Applicable.

The material data that follows is for each engine.

#### For V2500-A1 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
EB101729C	1	*	VALVE — BLEED HP. COMP. ST. 10	5950041-108 (75-32-54-01-400)	(2)(B)(C)

The material data that follows is for each engine.

#### For V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
EB101729C	1	*	VALVE — BLEED HP. COMP. ST. 10	5950041-108 (75-32-54-01-400)	(2)(B)(C)

The material data that follows is for each engine.

#### For V2525-D5, V2528-D5 Engines:

New PN	Qty	Estimate of Unit Price (\$)	Keyword	Old PN	Instructions — Disposition
EB101729C	1	*	VALVE — BLEED HP. COMP. ST. 10	5950041-108 (75-32-54-01-400)	(2)(A)(C)

### Instructions/Disposition Code Statements:

#### Parts Modification Conditions

Estimated part prices are provided when they are available at time of publication. The Estimate of Unit Price is only for planning purposes and does not constitute a firm quotation. An asterisk (\*) is shown where part pricing information was unavailable. In either case, contact IAE Spares for firm quotations.

(2) The new part is a replacement part only, and cannot be obtained by modification of the old part.

April 20/16

REVISION NO. 2 - March 11/19

# V2500-ENG-75-0125

Page 6

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Spare Parts Availability

- (A) The new part is available.
- (B) The new part will be available approximately May 30, 2016.
- (C) The old part will continue to be supplied.

Vendor Services or Special Components/Materials

Not Applicable.

Tooling — Price and Availability

Special tools are not required to accomplish this Service Bulletin.

Reidentified Parts

Not Applicable.

Other Material Information Data

Not Applicable.

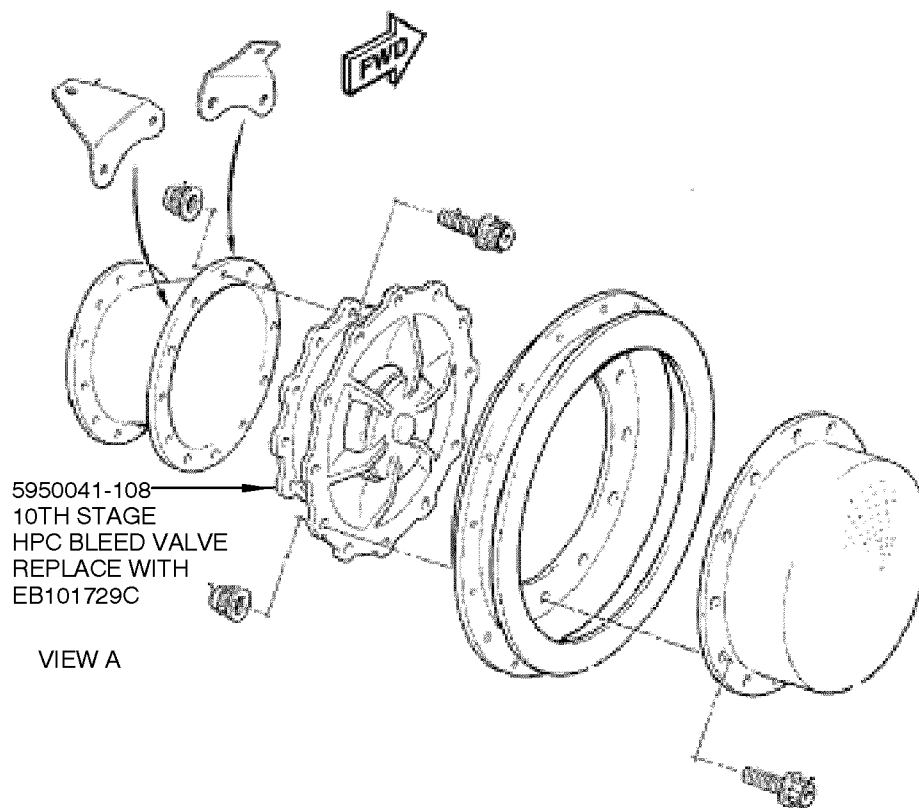
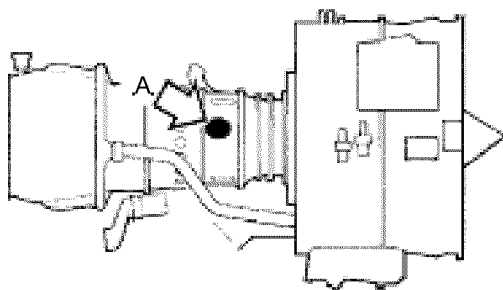
## Accomplishment Instructions

For V2500-A1 And V2522-A5, V2524-A5, V2527M-A5, V2527-A5, V2527E-A5, V2530-A5, V2533-A5 Engines

1. Replace the 10th Stage HPC Bleed Valve, PN 5950041-108 with PN EB101729C. See Figure 1 for the location of the part.
2. Recording Instructions
  - A. A record of accomplishment is required.

For V2525-D5, V2528-D5 Engines:

1. Replace the 10th Stage HPC Bleed Valve, PN 5950041-108 with PN EB101729C. See Figure 2 for the location of the part.
2. Recording Instructions
  - A. A record of accomplishment is required.



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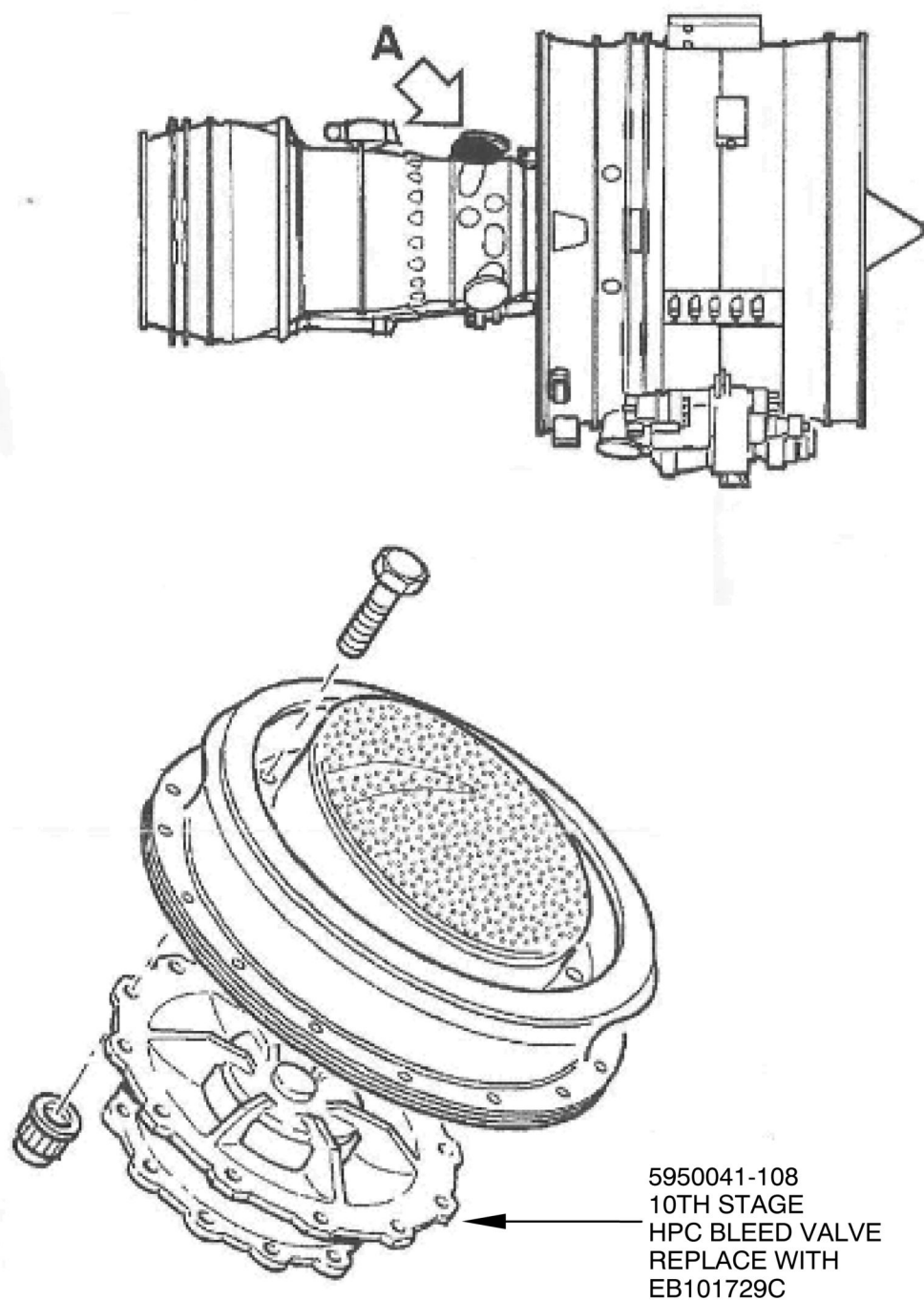
LOCATION OF THE V2500-A1 AND V2500-A5 ENGINE MODELS 10TH  
STAGE HPC BLEED VALVES

75-32-54  
FIGURE 1

April 20/16

REVISION NO. 2 - March 11/19

**V2500-ENG-75-0125**  
Page 9



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LOCATION OF THE V2500-D5 ENGINE MODELS 10TH STAGE HPC BLEED VALVE

75-32-54  
FIGURE 2

April 20/16

REVISION NO. 2 - March 11/19

**V2500-ENG-75-0125**

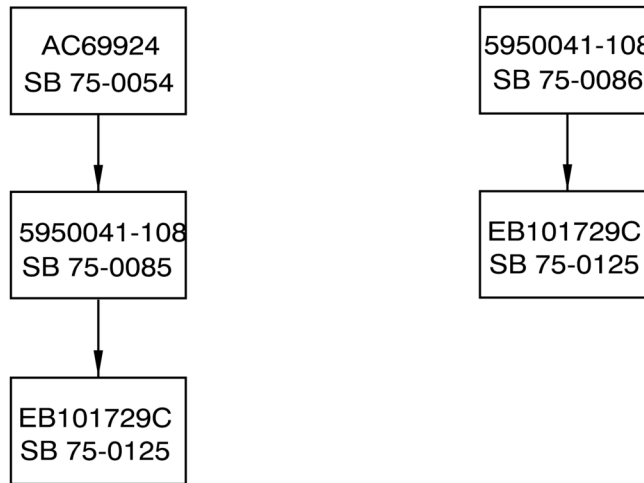
Page 10

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# Appendix

## Parts Progression To Show the Changed Part in Relation to Other Parts



FOR V2500-A1 AND A5 ENGINES

FOR V2500-D5 ENGINES

B526053A

10TH STAGE HPC BLEED VALVE  
CHART A

April 20/16

REVISION NO. 2 - March 11/19

V2500-ENG-75-0125

Page 11

## Added Data

### Internal Reference Information

Revision No.	Reference Document	Origination
Original	EC15VI005	FE/IEL
1	EC18VI002	LA/RCM
2	EC15VI005	LA/RCM

**NOTE:** In 2014 IAE converted the V2500 Technical Publications to a new system. As a result of the conversion, some manuals were consolidated. All manuals received new P&W part numbers. To facilitate the use of this Service Bulletin, the following Technical Publications cross reference table is provided.

### Technical Publications Cross Reference Table

Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
ENGINE MANUAL — A1, A5	All	E-V2500-1IA	2A4407
CMM-EHC — A1, A5	All	EHC-V2500-1IA	2A4409
CMM-FN — A1, A5	All	FN-V2500-1IA	2A4410
CMM-MMC — A1, A5	All	MECH-V2500-1IA	2A4411
CMM-THD — A1, A5	All	THD-V2500-1IA	2A4412
TLM — A1, A5	All	T-V2500-1IA	2A4408
ENGINE MANUAL — D5	All	E-V2500-3IA	2A4416
CMM-EHC — D5	All	EHC-V2500-3IA	2A4418
CMM-FN — D5	All	FN-V2500-3IA	2A4419
CMM-MMC — D5	All	MECH-V2500-3IA	2A4420
CMM-THD — D5	All	THD-V2500-3IA	2A4423
TLM — D5	All	T-V2500-3IA	2A4417
SPPM (SPM) — A1, A5, D5	All	SPP-V2500-1IA	2A4414
EIPC — A1	V2500-A1102Q00	S-V2500-1IA	2A4427

April 20/16

REVISION NO. 2 - March 11/19

# V2500-ENG-75-0125

Page 12

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Publication	Engine Model(s)	IAE IETM Pub Ref	P&W Part Number
EIPC — A5	V2522/V2524/V2527M-AQ02	S-V2500-6IA	2A4428
	V2522/V2524/V2527M-AQ03	S-V2500-6IB	
	V2522/V2524/V2527M-SQ02	S-V2500-6SA	
	V2522/V2524/V2527M-SQ03	S-V2500-6SB	
	V2522/V2524/V2527M-SQ04	S-V2500-6NA	
	V2522/V2524/V2527M-SQ05	S-V2500-6NB	
	V2527/V2527E-AQ02	S-V2500-7IA	
	V2527/V2527E-AQ03	S-V2500-7IB	
	V2527/V2527E-SQ02	S-V2500-7SA	
	V2527/V2527E-SQ03	S-V2500-7SB	
	V2527/V2527E-SQ04	S-V2500-7NA	
	V2527/V2527E-SQ05	S-V2500-7NB	
	V2530-AQ02	S-V2500-2IA	
	V2530-AQ03	S-V2500-2IB	
	V2530-SQ02	S-V2500-2SA	
	V2530-SQ03	S-V2500-2SB	
	V2530-SQ04	S-V2500-2NA	
	V2530-SQ05	S-V2500-2NB	
	V2533-AQ02	S-V2500-5IA	
	V2533-AQ03	S-V2500-5IB	
	V2533-SQ02	S-V2500-5SA	
	V2533-SQ03	S-V2500-5SB	
	V2533-SQ04	S-V2500-5NA	
	V2533-SQ05	S-V2500-5NB	
EIPC — D5	V2525/V2528-AQ02	S-V2500-3IA	2A4426
	V2525/V2528-AQ03	S-V2500-3IB	
	V2525/V2528-AQ04	S-V2500-3IC	

April 20/16

REVISION NO. 2 - March 11/19

V2500-ENG-75-0125

Page 13

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