

型号认可证数据单

THE VALIDATION DATA SHEET

编号/No.: VTC0158E

版次/Revision: 3

型号/Type:

TAE 125-01

TAE125-02-99

TAE 125-02-114

TAE 125-02-114P

TAE 125-02-125

批准人/Approved by:



职务/Title: Director General of CAAC-AAD

日期/Date: 2022 年 1 月 10 日

本数据单是型号认可证（编号：VTC0158E）的组成部分，它规定了符合中国民用航空局的适航要求所颁发此型号认可证的产品状态和限制。

This data sheet, which is a part of Validation Type Certificate (No: VTC0158E), prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Chinese Civil Aviation Regulation.

型号认可证持有人/Validation of Type Certificate Holder:

Continental Aerospace Technologies GmbH
Platanenstr. 14
D-09356 Sankt Egidien
Germany

第1部分 概述

SECTION 1 GENERAL

1. CAAC认可数据单和型号合格证数据单/CAAC Validation Data Sheet and Type Certificate Data Sheet

	中国民用航空局认可数据单号、版次和颁发日期 CAAC Validation Data Sheet Number, Revision and issuance date	型号合格证数据单号、版次和颁发日期 Type Certificate Data Sheet Number, Revision and issuance date
当前 Current	VTC0158E, 版次3, 2022年1月10日 VTC0158E, Revision 3, January 10, 2022	EASA TCDS No. E.055, 第14版, 2021年8月18日 EASA TCDS No. E.055, Revision 14, August 18, 2021
历史 History	VTC158E, 版次0, 2005年2月3日 VTC158E, Revision 0, February 3, 2005	LBA TCDS No. 4631/EN, 第5版, 2004年5月7日 LBA TCDS No. 4631/EN, Revision 5, May 7, 2004
	VTC0158E, 版次1, 2007年6月27日 VTC0158E, Revision 1, June 27, 2007	EASA TCDS No. E.055, 第5版, 2007年5月11日 EASA TCDS No. E.055, Revision 5, May 11, 2007
	VTC0158E, 版次2, 2018年2月9日 VTC0158E, Revision 2, February 9, 2018	EASA TCDS No. E.055, 第10版, 2016年1月8日 EASA TCDS No. E.055, Revision 10, January 8, 2016

注：上表中出口国局方型号合格证数据单信息仅供参考

Note: Above TCDS information of Certification Authority is only for reference

数据单修订记录/ Change Record of the VTCDS

版次/ Revision	相对上一版的修订记录/Change Record	备注/Remark
版次 3/Rev 3	新增 TAE 125-02-114P 与 TAE 125-02-125 型别。 According to the application, new TAE 125-02-114P and TAE 125-02-125 models were added.	
	型号合格证持有人更改。 Type Certificate Holder change.	
	生产商更改。 Manufacturer change.	
	CAAC 专用要求的燃油标准升级。 Fuel standard of CAAC Special Requirements upgrade.	

2. 类别/Category:

航空发动机/Aeroengine

3. 认可当局/Validation Authority:

中国民用航空局/CAAC

审定当局/Certifying Authority:

欧洲航空安全局/EASA

4. 型号合格证持有人/Type Certificate Holder:

Continental Aerospace Technologies GmbH

Platanenstr. 14

D-09356 Sankt Egidien

DOA EASA.21J.010

原型号合格证持有人（2013年8月19日以前）:

Technify Motors GmbH(2013年8月19日至2019年7月31日)

Previous TC Holder (before 19 August 2013):

Thielert Aircraft Engines GmbH(2013年8月19日以前)

5. 生产商/Manufacturer

Continental Aerospace Technologies GmbH

POA DE.21G.0269

原型生产商:

Technify Motors GmbH(2013 年 8 月 19 日至 2019 年 7 月 31 日/**)

Previous TC Holder:

Thielert Aircraft Engines GmbH(2013 年 8 月 19 日以前 / **)

6. 双发延程飞行/ETOPS:

不适用/NA

7. CAAC专用要求/CAAC Special Requirements:

满足中华人民共和国国家标准“3 号喷气燃料”(GB 6537)

Compliance with requirement of National Standard of the People's Republic of China "No.3 Jet Fuel" (GB 6537)

第2部分 数据

Section II DATA

I. 通用/General

1. 申请日期/Application Date

TAE 125-01	TAE 125-02-99	TAE 125-02-114	TAE 125-02-114P	TAE 125-02-125
2001 年 2 月 27 日/ 27 February, 2001	2005 年 6 月 3 日/ 3 June, 2005	2007 年 2 月 13 日/ 13 February, 2007	2017 年 6 月 22 日/ 22 June, 2017	2019 年 5 月 15 日/ 15 May, 2019

注/Note: TAE 125-01是在EASA成立前, 向JAA提交的申请。

Application for TAE 125-01 was made to JAA before EASA has been established.

2. EASA审定日期/EASA Certification Date:

TAE 125-01	TAE 125-02-99	TAE 125-02-114	TAE 125-02-114P	TAE 125-02-125
2002 年 5 月 3 日/ 03 May, 2002	2006 年 8 月 14 日/ 14 August, 2006	2007 年 3 月 6 日/ 06 March, 2007	2017 年 10 月 18 日/ 18 October, 2017	2020 年 7 月 22 日/ 22 July, 2020

注/Note: TAE125-01是在EASA成立前, 由德国LBA (TC/TCDS 4631) 完成审定的。

TAE 125-01 had been certified by LBA Germany (TC/TCDS 4631) prior to EASA existence.

本TCDS替代了LBA TCDS No 4631/This TCDS replaces LBA TCDS No 4631.

转换为EASA TC的时间/Transfer date to EASA Type Certificate: 2006年3月24日: 24 March 2006.

TAE 125-02-114发动机是在99千瓦型发动机的基础上进行了重大更改(功率增加至114千瓦), EASA在2007年1月3日批准了该重大更改(编号EASA. E. C.01379)(申请日期为2006年9月11日)。

The TAE 125-02-114 engine model was previously approved as Major Change (power increase to 114 kW) to the initial 99 kW engine version under EASA approval number EASA.E.C.01379 on 3 Jan. 2007 (application date: 11 Sept. 2006).

TAE 125-02-99型发动机最初批准名称为TAE 125-02。

The TAE 125-02-99 engine model was previously approved as TAE 125-02.

II. 审定基础/Certification Basis

1. EASA审定基础/EASA Certification Basis

1.1 适航标准/Airworthiness Standards:

TAE 125-01	JAR-E第10修正案, 1999年8月15日/JAR-E, Change 10, 15 August 1999.
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TAE 125-02-99	CS-E, 2003年9月23日, CS-E 130(h) (见注2)
TAE 125-02-114	CS-E, 23 September 2003 except CS 130 (h) (see Note 2).
TAE125-02-114P	
TAE 125-02-125	

1.2 专用条件/Special Conditions (SC):

TAE 125-01	SC1, 发动机电子控制系统/Electronic Engine Control System SC2, 燃油污染/Contaminated Fuel SC3, 失效分析/Failure Analysis SC4, 防火/Fire Precautions SC5, 可编程逻辑器件的审定/Certification of Programmed Logic Devices
TAE 125-02-99 TAE 125-02-114	SC1, 失效分析/Failure Analysis
TAE 125-02-114P TAE 125-02-125	SC2, 发动机空中熄火/Engine Flame Out during Flight

1.3 等效安全/Equivalent Safety Findings (ESF):

TAE 125-01	ESF1, 螺旋桨功能测试/Propeller Functioning Test ESF2, 发动机测试控制参数/Engine Test Control Parameters ESF3, 发动机型号设计/Engine Type Design
TAE 125-02-99 TAE 125-02-114 TAE 125-02-114P TAE 125-02-125	CS-E 70和CS-E100: 发动机型号设计/Engine Type Design

1.4 偏离/Deviations:

无/none

1.5 环境保护/Environmental Protections:

无 (对活塞发动机不要求) /none (not required for piston engines)

2. CAAC认可审定基础/CAAC Validation Basis**2.1 适航标准/Airworthiness Standards:**

中国民用航空局接受审定当局的审定基础作为认可审定基础。

CAAC accepts the Certification Basis of Certification Authority as the Validation Basis.

2.2 等效安全/Equivalent Safety Findings (ESF):

TAE 125-01	无
TAE 125-02-99、TAE 125-02-114	CCAR33.49: 持久试验

III. 技术特性/Technical Characteristics

1. 型号设计定义/Type Design Definition

TAE 125-01	TDD 02-01, 第2版, 2002年2月2日批准版本 TDD 02-01, Issue 2 dated February 02, 2002
TAE 125-02-99	TDD 02-02, 第4版, 2013年7月19日批准版本 TDD 02-02, Issue 4 dated July 19, 2013
TAE 125-02-114	TDD 02-02, 第4版, 2013年7月19日批准版本 TDD 02-02, Issue 4 dated July 19, 2013
TAE 125-02-114P	TDD-02-02, 第4版, 2013年7月19日批准版本 TDD-02-02, Issue 4 dated July 19, 2013
TAE 125-02-125	TDD-02-02-125, 第1版, 2020年1月31日批准版本 TDD-02-02-125, Issue 1 dated Jan. 31, 2020

2. 描述/Description

TAE 125发动机是一款4缸四冲程压燃式活塞发动机, 排量1689立方厘米 (TAE125-01) 或1991立方厘米 (TAE 125-02-99, TAE 125-02-114, -114P, -125), 装有高压共轨直喷系统、涡轮增压器、减速比1:1.689的齿轮箱、螺旋桨调速器和FADEC。

The TAE 125 engine is a 4-cylinder, four stroke Diesel piston engine with an displacement of 1689 cm³ (TAE 125-01) resp. 1991 cm³ (TAE 125-02-99, TAE 125-02-114, -114P, -125), equipped with common rail high pressure direct injection, turbocharger, gearbox with reduction ratio of 1:1.689, propeller governor and FADEC.

3. 设备/Equipment

见安装手册/See Installation Manual.

3. 尺寸/Dimensions

4.

型号 Model	TAE 125-01	TAE 125-02-99,-114, -114P	TAE 125-02-125
总长度 Overall Length	816 mm	816 mm	823 mm
总高度 Overall Height	636 mm	636 mm	624 mm
宽度 Width	778 mm	778 mm	778 mm

5. 干重/Dry Weight

型号/Model	TAE 125-01, TAE 125-02-99, -114	TAE 125-02-114P	TAE 125-02-125
重量/ Weight	134 kg	153 kg	156 kg

6. 额定值/Ratings

额定值/Rating		TAE 125-01, TAE 125-02-99	TAE 125-02-114	TAE 125-02-114P	TAE 125-02-125
功率/Power	起飞 (5 分钟) Take-off (5 min)	99 kW at 3900 rpm	114 kW at 3900 rpm	114 kW at 3900 rpm	125 kW at 3900 rpm
	最大连续 Max. Continuous				114 kW at 3800 rpm
	最大推荐巡航 Max. Recommended Cruising	71 kW at 3400 rpm	97 kW at 3400 rpm	85 kW at 3400 rpm	88 kW at 3400 rpm
	最大最佳经济巡航 Max. Best Economy Cruising			71 kW at 3250 rpm	71 kW at 3250 rpm

注/Note: 上表性能值对应ICAO或ARDC标准大气条件下定义的最小值。

The performance values specified above correspond to minimum values defined under the conditions of ICAO or ARDC standard atmosphere.

7. 控制系统/Control System

发动机装有权全数字发动机控制系统 (FADEC)。软件按照RTCA DO-178B的C级验证。

The engine is equipped with a Full Authority Digital Engine Control (FADEC). Software verified to level C according to RTCA Document DO-178B.

TAE 125-01:

FADEC件号 02-7610-55001 R1

FADEC P/N 02-7610-55001 R1

软件/Software: TAE-125 m2.91

燃油图谱: 批准的软件编号参见服务通告TM TAE 000-0007。

Software Mapping: Refer to Service Bulletin TM TAE 000-0007 for approved software P/N.

TAE 125-02-99, TAE 125-02-114:

FADEC件号05-7610-K000102, P/N 05-7610-E000201, P/N 05-7611-E001904及之前批准的所有版本。

FADEC P/N 05-7610-K000102, P/N 05-7610-E000201, P/N 05-7611-E001904 or earlier approved standard.

软件/Software: TAE-125 3.30, D4-V1.70 或之前批准的版本

TAE-125 3.30, D4-V1.70 or earlier approved standard.

燃油图谱: 批准的软件编号参见服务通告TM TAE 000-0007。

Software Mapping: Refer to Service Bulletin TM TAE 000-0007 for approved software P/N.

TAE 125-02-114P:

FADEC D4 件号 05-7611-E0019 04

FADEC D4 P/N 05-7611-E0019 04

软件/Software: D4-160

燃油图谱: 批准的软件编号参见服务通告 TM TAE 000-0007

Software Mapping: Refer to Service Bulletin TM TAE 000-0007 for approved software P/N.

TAE 125-02-125:

FADEC D4件号 05-7611-E0019 06

FADEC D4 P/N 05-7611-E0019 06

软件Software: D4-190

燃油图谱: 批准的软件编号参见服务通告 TM TAE 000-0007

Software Mapping: Refer to Service Bulletin TM TAE 000-0007 for approved software P/N.

8. 油液（燃油/滑油/冷却液/添加剂）/Fluids (Fuel/Oil/Coolant/Additives)

批准的油液见操作维护手册（也可见注4）

See Operation & Maintenance Manual for approved fluids (see also Note 4)

9. 航空器附件驱动/Aircraft Accessory Drives

除TAE 125-02-114P以外的型号: 对客户/航空器提供的设备没有要求。

All models except TAE 125-02-114P: There are no provisions for customer/aircraft furnished equipment.

TAE 125-02-114P	旋转方向/Rotation	转速/Speed (rpm)	最大扭矩/Max. Torque	驱动类型/Type of Drive
附件驱动/Accessory Drive	顺时针/CW	7670	3.7 Nm	皮带轮/Belt pulley

CW =顺时针/Clock-Wise

附件驱动转速指示为发动机曲轴转速3900rpm时/Speed is indicated for a reference engine speed of 3900 rpm。

附件驱动旋转方向意为面向驱动时观察得到/Accessory drive direction of rotation is as viewed facing the drive.

IV.使用限制/Operational Limitations**1. 温度限制/Temperature limits**

最低开放燃油温度（仅使用柴油时，另见OM-02-01 resp. OM-02-02） Minimum opening up Fuel Temperature (for Diesel fuel operation only, see also	-5 °C (23 °F)
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OM-02-01 resp. OM-02-02):	
最低开放滑油温度/Minimum opening up Oil Temperature:	50 °C (122 °F)
最高滑油温度 (除了TAE 125-02-125) /Max. Oil Temperature(all except TAE 125-02-125)	140 °C (284 °F)
最高滑油温度(TAE 125-02-125) /Max. Oil Temperature (TAE 125-02-125)	120 °C (248 °F)
最低起动环境温度/Minimum ambient temperature for starting:	-32 °C (-26 °F)
最低起动环境温度 (TAE 125-02-114P, -125) /Minimum ambient temperature for starting (TAE 125-02-114P, -125)	-25 °C (-13 °F)
最低开放冷却液温度/Minimum opening up Cooling Fluid Temperature:	60 °C (140°F)
最高冷却液温度/Max. Cooling Fluid Temperature:	105 °C (221°F)
最高齿轮箱温度/Max. Gearbox Temperature:	120 °C (248 °F)

2. 速度限制/Speed Limits

最大发动机超转转速 (曲轴转速): Maximum Engine Overspeed (Crankshaft Speed) :	4220 rpm
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3. 压力限制/Pressure Limits

最小燃油压力 (发动机低压泵进口): Minimum Fuel Pressure (at inlet of LP engine pump):	200 mbar(2.9psi)
最小滑油压力/Minimum Oil Pressure:	1.0 bar(14.5psi)
滑油压力 (正常工作) /Oil Pressure (normal operation):	2.3-6.0bar(33.4-87psi)
最大滑油压力 (冷起动, 最多20秒): Maximum Oil Pressure (for cold start, max. up to 20 sec):	6.5Bar(94.3psi)

4.限时派遣 (TLD) /Time Limited Dispatch (TLD)

时间限制的签派在此发动机上不被批准适用。所有发动机系统和设备必须在起飞前处于工作状态。任何已知的发动机系统或设备失效必须在下一次飞行前得到解决。关于特殊指令, 参考适用的发动机使用手册及维护手册。

The engine is not approved for Time Limited Dispatch. All engine systems and equipment must be functional prior to aircraft take-off. Any detected engine system or equipment failure must be corrected before next flight. For special instructions, see applicable Operation & Maintenance Manual.

V 使用和服务说明/Operational and Service Instructions

手册/Manuals	TAE 125-01	TAE 125-02-99 , TAE 125-02-114	TAE 125-02-114P	TAE 125-02-125
安装手册 Installation Manual	IM-02-01	IM-02-02	IM-02-02P	IM-02-02B
使用手册 Operation Manual	OM-02-01	OM-02-02	OM-02-02P	OM-02-02B

持续适航文件 Instructions for Continued Airworthiness (ICA)	TAE 125-01	TAE 125-02-99 , TAE 125-02-114	TAE 125-02-114P	TAE 125-02-125
维护手册 Maintenance Manual	OM-02-01	OM-02-02	OM-02-02P	OM-02-02B
维修手册 Repair Manual	RM-02-01	RM-02-02	RM-02-02	RM-02-02
大修手册 Overhaul Manual	OHM-02-01	OHM-02-02	OHM-02-02	OHM-02-02
服务通告及服务信函 Service Bulletins and Service Letters	参见所颁发的相关文件/as issued			

VI. 注释/Notes

注1/Note 1: 发动机型别编号可能包含带括号的后缀，来定义特定的安装构型变化。对每种安装构型，发动机电子控制的软件具有特定的软件图谱。安装构型与软件图谱参见服务通告TM TAE 000-0007。对特定的安装也可参考合适的安装手册。

Engine model numbers may include suffixes in parentheses to define installation specific configuration changes. The software of the electronic engine control for each application has a specific software mapping. See Service Bulletin TM TAE 000-0007 for the installation versions and software mappings. Also refer to Installation Manual for appropriate installation.

注2/ Note 2: 对TAE 125-02型发动机适用的EASA审定基础可与TAE 125-01型发动机相同，然而，TAE 选择符合CS-E除CS-E 130 (h)外的条款要求。

The applicable EASA Certification Basis for the TAE 125-02 engine model would have been the same as for the TAE125-01 engine model, however. TAE elected to comply to CS-E except for CS-E 130 (h).

注3/Note 3: TAE125发动机被批准安装于23部正常类和实用类航空器。

The TAE 125 engine is approved for the installation in Part 23 normal and utility category airplanes.

注4/Note 4: TAE125发动机被批准使用喷气燃料（见操作和维护手册）以及符合EN590的柴油。然而，柴油浊点（CFPP）由不同国家控制，列在EN590标准的附录中，因国家和季节不同而有所区别。因此，需要安装燃油箱温度计，并规定发动机最小起动温度(参见安装手册IM-02-01及IM-02-02, IM-02-02P, IM-02-02B)。

在安装手册所限定的使用环境下，TAE 125-02-114P已验证可使用十六烷值不低于40的燃料，TAE 125-02-125已验证可使用十六烷值不低于36（依据EN ISO 5156测定）的燃料。

The TAE 125 engine is approved for the operation with Jet fuels (see Operation & Maintenance Manual) and Diesel fuel according to EN 590. However, the cloud point (CFPP) of Diesel fuel is regulated by national appendices to the EN 590 Standard, and it varies between the countries and the time of the year. Therefore, the installation of a fuel tank thermometer is required as well as a minimum engine starting temperature is defined (refer to Installation Manual

IM-02-01 resp. IM-02-02, IM-02-02P, IM-02-02B).

The TAE 125-02-114P and TAE 125-02-125 engine have been tested for fuels up to minimum derived cetane number of 40 (TAE 125-02-114P) resp. 36 (TAE 125-02-125, determined according EN ISO 5165) for an operating envelope defined in the applicable Installation Manual.

注5/Note 5:

TAE 125-01发动机，包括FADEC，批准使用MTV-6-A/187-129、MTV-6-A/190-129和MTV-6-A-C-F/CF187-129螺旋桨。该批准不包括螺旋桨及其控制系统的批准（另见注12）。

TAE 125-02-99和TAE 125-02-114发动机，包括其FADEC，批准使用以下型号螺旋桨

MTV-6-A-(1*)/(2**)-(3***)-(4****)

(1*) 顺桨规定（桨毂）：

- 空白= 不可顺桨
- C-F = 带有变桨距的配重和顺桨位置

(2**) 变距销位置：

- 空白= 减小桨距变距销位置（恒速）
- CF（恒速和顺桨）= 允许顺桨及增大桨距位置

(3***）螺旋桨直径：

- 螺旋桨直径从175cm到190cm

(4****) 桨叶设计识别：

- 69
- 80
- 129

该批准不包括螺旋桨及其控制系统的批准（另见注12）。

TAE 125-01-114P发动机，包括FADEC，被批准使用MTV-6-A/LD203-80型号的螺旋桨。

TAE 125-02-125发动机，包括FADEC，被批准使用MTV-6-R/190-69型号的螺旋桨。该批准不包括螺旋桨及其控制系统的批准。

The TAE 125-01 engine, including the FADEC, is approved for use with the propeller MTV-6-A/187-129, MTV-6-A/190-129 and MTV-6-A-C-F/CF187-129 models. This approval does not include the approval of the propellers and their control systems (see also Note 12).

The TAE 125-02-99 and TAE 125-02-114 engine models, including the FADEC, are approved for use with the propeller models

MTV-6-A-(1*)/(2**)-(3***)-(4****)

(1*) Feather provision (Hub):

- blank = no feather position possible
- C-F = counterweights for pitch change forces to increase pitch and feather position possible

(2**) Position of pitch change pin:

- blank = pin position for pitch change forces to decrease pitch (Constant Speed)
- CF (Constant Speed & Feather) = pin position to allow feather, pitch change forces to increase pitch

(3**) Propeller Diameter:

- Propeller diameter from 175cm to 190cm

(4**) Identification of blade design:

- 69
- 80
- 129

This approval does not include the approval of the propellers and their control systems (see also Note 12).

The TAE 125-02-114P engine, including the FADEC, is approved for use with the propeller MTV-6- A/LD203-80 model. The TAE 125-02-125 engine, including the FADEC, is approved for use with the propeller MTV-6-R/190-69 model. These approvals do not include the approval of the propellers and their control systems (see also Note 12).

注6/Note 6:

对TAE125-01: 仅允许对发动机部分零件大修, 见大修手册。

For TAE 125-01: Overhaul is permitted for several engine parts only, see Overhaul Manual.

注7/Note 7:

对TAE 125-01核心发动机建立了推荐的发动机寿命。TAE125-01的换发时间 (TBR) 和 TAE125-02的大修间隔 (TBO) 在服务通告TM TAE 125-0001中给出。

For the TAE 125-01 core engine a recommended engine life has been established. The Time Between Replacement (TBR) of the TAE 125-01 and the Time Between Overhaul (TBO) of the TAE 125-02 models is published in Service Bulletin TM TAE 125-0001.

注8/Note 8:

发动机控制系统已经按DO-160D进行了闪电防护和电磁干扰验证, 证明的水平在安装手册中声明。

The engine control system has been tested according to DO-160D for lightning protection and magnetic interference. The demonstrated levels are declared in the Installation Manual.

注9/Note 9:

FADEC不得安装在火区。安装条件在安装手册中规定。

The FADEC must not be installed in a dedicated fire zone. The installation conditions are defined in the Installation Manual

注10/Note 10:

安装假设: 见安装手册。

Installation Assumptions: See Installation Manual.

注11/Note 11: 持续适航文件中，经EASA批准的关于适航限制章节发布于相关“使用和维护手册”文件中第5章“适航限制”。

The EASA approved Airworthiness Limitations Section of the Instructions for Continued Airworthiness is published in the applicable "Operation & Maintenance Manual" document, chapter 5 "Airworthiness Limitations".

注12/Note 12: 该发动机FADEC中集成了螺旋桨控制。FADEC中的软件按符合DO-178B的C级研发。发动机及其FADEC的批准不包括螺旋桨控制系统的批准。

This engine design features an integrated propeller control in the FADEC. The software in the FADEC has been developed in accordance with DO-178B at level C. The approval of the engine and its FADEC does not include approval of the propeller control system.

注13/Note 13: 销售名称/Sales name of the model:

TAE125-01:	CENTURION 1.7
TAE 125-02-99:	CD-135（2014年7月18日之前的名称为/previous name until 18 July 2014: CENTURION 2.0）
TAE 125-02-114:	CD-155（2014年7月18日之前的名称为/previous name until 18 July 2014: CENTURION 2.0 S）
TAE 125-02-114P:	CD-155P
TAE 125-02-125:	CD-170

--结束--

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