

## 1 TROUBLESHOOTING CODES.

<i>J1939 SPN</i>	<i>J1939 FMI</i>	<i>DIAGNOSTIC CODE DESCRIPTION</i>	<i>FAULT CODE</i>
27	2	EGR POSITION SENSOR CIRCUIT DATA INCORRECT	1228
27	3	EGR VALVE POSITION CIRCUIT SHORTED HIGH	2271
27	4	EGR VALVE POSITION CIRCUIT SHORTED LOW	2272
27	13	EGR VALVE POSITION FAILED AUTOMATIC CALIBRATION PROCEDURE	2348
84	2	VEHICLE SPEED SENSOR CIRCUIT DATA INCORRECT	241
84	10	VEHICLE SPEED SENSOR CIRCUIT TAMPERING HAS BEEN DETECTED	242
91	3	ACCELERATOR PEDAL POSITION SENSOR CIRCUIT SHORTED HIGH	131
91	4	ACCELERATOR PEDAL POSITION SENSOR CIRCUIT SHORTED LOW	132
91	19	SAE 1939 MULTIPLEXING ACCELERATOR PEDAL SENSOR SYSTEM ERROR	287
94	2	FUEL PRESSURE SENSOR CIRCUIT DATA INCORRECT	268
94	16	FUEL PRESSURE HIGH WARNING	449
94	18	FUEL PRESSURE LOW WARNING	482
94	3	FUEL DELIVERY PRESSURE SENSOR CIRCUIT SHORTED HIGH	546
94	4	FUEL DELIVERY PRESSURE SENSOR CIRCUIT SHORTED LOW	547

# Cummins Engine Fault Codes

**KJ Lindholm-Leary**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Cummins Engine Fault Codes:**

## Reviewing **Cummins Engine Fault Codes**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Cummins Engine Fault Codes**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

[https://automacao.clinicaideal.com/About/detail/default.aspx/devil\\_and\\_tom\\_walker\\_analyze\\_imagery\\_answers.pdf](https://automacao.clinicaideal.com/About/detail/default.aspx/devil_and_tom_walker_analyze_imagery_answers.pdf)

### **Table of Contents Cummins Engine Fault Codes**

1. Understanding the eBook Cummins Engine Fault Codes
  - The Rise of Digital Reading Cummins Engine Fault Codes
  - Advantages of eBooks Over Traditional Books
2. Identifying Cummins Engine Fault Codes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Cummins Engine Fault Codes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cummins Engine Fault Codes
  - Personalized Recommendations
  - Cummins Engine Fault Codes User Reviews and Ratings
  - Cummins Engine Fault Codes and Bestseller Lists

5. Accessing Cummins Engine Fault Codes Free and Paid eBooks
  - Cummins Engine Fault Codes Public Domain eBooks
  - Cummins Engine Fault Codes eBook Subscription Services
  - Cummins Engine Fault Codes Budget-Friendly Options
6. Navigating Cummins Engine Fault Codes eBook Formats
  - ePub, PDF, MOBI, and More
  - Cummins Engine Fault Codes Compatibility with Devices
  - Cummins Engine Fault Codes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Cummins Engine Fault Codes
  - Highlighting and Note-Taking Cummins Engine Fault Codes
  - Interactive Elements Cummins Engine Fault Codes
8. Staying Engaged with Cummins Engine Fault Codes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Cummins Engine Fault Codes
9. Balancing eBooks and Physical Books Cummins Engine Fault Codes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cummins Engine Fault Codes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Cummins Engine Fault Codes
  - Setting Reading Goals Cummins Engine Fault Codes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cummins Engine Fault Codes
  - Fact-Checking eBook Content of Cummins Engine Fault Codes
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- 
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

### **Cummins Engine Fault Codes Introduction**

In today's digital age, the availability of Cummins Engine Fault Codes books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Cummins Engine Fault Codes books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Cummins Engine Fault Codes books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing Cummins Engine Fault Codes versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, Cummins Engine Fault Codes books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether you're a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing Cummins Engine Fault Codes books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for Cummins Engine Fault Codes books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public. Open Library hosts millions of books, including both public domain works and contemporary titles. It also allows users to

borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which provides a vast collection of digitized books and historical documents. In conclusion, Cummins Engine Fault Codes books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Cummins Engine Fault Codes books and manuals for download and embark on your journey of knowledge?

### **FAQs About Cummins Engine Fault Codes Books**

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Cummins Engine Fault Codes is one of the best book in our library for free trial. We provide copy of Cummins Engine Fault Codes in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Cummins Engine Fault Codes. Where to download Cummins Engine Fault Codes online for free? Are you looking for Cummins Engine Fault Codes PDF? This is definitely going to save you time and cash in something you should think about.

---

## Find Cummins Engine Fault Codes :

[devil and tom walker analyze imagery answers](#)

[deutz engine manual tcd 2012 106 2v](#)

[diplomska naloga doba](#)

**dimitri her russian protector 2 roxie rivera**

**diary of a crush sealed with a kiss**

**discovering statistics using spss third edition**

[digital circuit and design salivahanan arivazhagan](#)

[disability support worker interview questions and answers](#)

[differential geometry and mathematical physics part i manifolds lie groups and hamiltonian systems theoretical and mathematical physics](#)

[dictionary of root words greek and latin roots english word power volume 17](#)

[diary oxygen thief](#)

**digital signal processing signals systems and filters 1st edition**

**difco manual mrs agar**

[dgray man vol 1](#)

[detroit diesel fault codes code description ddec v circuit](#)

## Cummins Engine Fault Codes :

[como duplicar anuncios de facebook con las funciones de](#) - Aug 02 2022

web obtén información sobre cómo duplicar tu campaña conjunto de anuncios o anuncio que tuvo éxito anteriormente con el administrador de anuncios a fin de reutilizar sus

**85 anuncios en facebook para duplicar tus clientes descubre el** - Mar 09 2023

web 85 anuncios en facebook para duplicar tus clientes descubre el secreto detrás de los mejores anuncios spanish edition  
ebook gamboa roberto amazon in kindle store

**amazon com 85 anuncios en facebook para duplicar tus** - Aug 14 2023

web mar 4 2016 85 anuncios en facebook para duplicar tus clientes descubre el secreto detrás de los mejores anuncios  
spanish edition kindle edition

[información sobre cómo duplicar con la opción de copiar y](#) - Jan 07 2023



web para acceder a esta función selecciona los anuncios los conjuntos de anuncios o las campañas que quieras duplicar y abre el menú desplegable duplicar en la barra de

**cómo duplicar un anuncio en el administrador de anuncios** - Nov 05 2022

web cómo duplicar un anuncio en el administrador de anuncios puedes usar la duplicación en el administrador de anuncios para copiar campañas conjuntos de anuncios o

cómo puedo duplicar una de mis campañas facebook - Jul 01 2022

web elige la campaña que quieres duplicar y desplázate hacia la izquierda para ver las opciones para esa campaña toca la opción duplicar tienes la opción de cambiar

**anuncios de facebook 5 ejemplos de anuncios en** - Mar 29 2022

web aprendamos marketing respondimos a los comentarios de nuestros suscriptores y escribimos 5 anuncios de facebook de 5 industrias diferentes que

amazon com 85 anuncios en facebook para duplicar tus - Jun 12 2023

web amazon com 85 anuncios en facebook para duplicar tus clientes descubre el secreto detrás de los mejores anuncios spanish edition ebook gamboa roberto tienda

85 anuncios en facebook ads para duplicar tus clientes - May 11 2023

web he creado más de 400 campañas en facebook para mis propios proyectos y otras más de 300 para mis clientes he visto desfilar más de 1000 anuncios por mis ojos y he

cómo duplicar anuncios en el administrador de anuncios de - Jan 27 2022

web para duplicar un anuncio en el administrador de anuncios haz lo siguiente ve al administrador de anuncios selecciona campañas conjuntos de anuncios o

*85 anuncios en facebook para duplicar tus clientes descubre el* - Dec 06 2022

web 85 anuncios en facebook para duplicar tus clientes descubre el secreto detrás de los mejores anuncios ebook gamboa roberto amazon com mx tienda kindle

**85 anuncios en facebook para duplicar tus clientes descubre el** - Jul 13 2023

web 85 anuncios en facebook para duplicar tus clientes descubre el secreto detrás de los mejores anuncios versión kindle de roberto gamboa redactor formato versión

*85 anuncios en facebook para duplicar tus clientes descubre el* - Feb 08 2023

web 85 anuncios en facebook para duplicar tus clientes descubre el secreto detrás de los mejores anuncios ebook gamboa roberto amazon com mx tienda kindle

*información sobre la duplicación con las funciones de copiar y* - Oct 04 2022

web para acceder a esta función selecciona las campañas los conjuntos de anuncios o los anuncios que quieras duplicar y abre el menú desplegable duplicar en la barra de

**85 anuncios en facebook para duplicar tus clientes** - Apr 10 2023

web 85 anuncios en facebook para duplicar tus clientes book read reviews from world s largest community for readers te gustaría saber cómo se anuncian las

**duplicar modelos de anuncios del centro de contenido facebook** - Apr 29 2022

web obtén información sobre cómo duplicar modelos de anuncios en el centro de contenido de facebook

*cómo duplicar anuncios de facebook usando la función de* - Feb 25 2022

web pulsa ctrl c para copiar los anuncios seleccionados o bien selecciona copiar en el menú desplegable duplicar ve a la pestaña conjuntos de anuncios marca la casilla

**9 ideas para ahorrar tiempo en tus campañas de anuncios en** - Sep 03 2022

web sep 6 2021 para establecerlo abre una campaña en el administrador de anuncios haz clic en unos de tus sets de anuncios y selecciona la opción duplicar anuncios haz

*cómo puedo duplicar una de mis campañas servicio de* - May 31 2022

web puedes duplicar una de tus campañas en la aplicación del administrador de anuncios desde tres ubicaciones distintas mientras la estás viendo desde la pestaña inicio de la

when is man utd v brighton radio times - Jun 20 2021

web susan douglas explores how listening has altered our day to day experiences and our own generational identities cultivating different modes of listening in different eras how

listening in radio and the american imagination google books - Mar 10 2023

web nov 30 2013 listening in radio and the american imagination from amos n andy and edward r murrow to wolfman jack and howard stern user review kirkus an

**listening in radio and the american imagination goodreads** - Apr 11 2023

web listening in radio and the american imagination susan jeanne douglas university of minnesota press 2004 history 415 pages few inventions evoke such nostalgia such

**listening in radio and the american imagination amazon ca** - Jul 02 2022

web aug 1 2000 book review listening in radio and the american imagination tim crook international journal of cultural studies 2000 3 2 300 301 share share social

**listening in radio and the american imagination google books** - Feb 09 2023

web listening in radio and the american imagination from amos n andy and edward r murrow to wolfman jack and howard

stern by susan j douglas new york random

**listening in radio and the american imagination from amos ri** - Nov 06 2022

web douglas reveals how radio has played a pivotal role in helping us imagine ourselves in invisible communities of sports fans fred allen devotees rock n rollers ham operators

**book review listening in radio and the american imagination** - Jun 01 2022

web listening in radio and the american imagination from amos n andy and edward r murrow to wolfman jack and howard stern douglas susan j amazon com tr kitap

*i imagine he s in the cosmos hearing music floating points on* - Sep 23 2021

web sep 11 2023 medical debt nearly pushed this family into homelessness millions more are at risk kayce atencio who had a heart attack when he was 19 was unable to rent an

**listening in radio and the american imagination from amos n** - Aug 03 2022

web susan douglas explores how listening has altered our day to day experiences and our own generational identities cultivating different modes of listening in different eras how

**listening in radio and the american imagination amazon co uk** - Sep 04 2022

web request pdf listening in radio and the american imagination from amos n andy and edward r murrow to wolfman jack and howard stern review technology and

**listening in university of minnesota press** - May 12 2023

web jan 1 1999 interesting cultural history of american radio from the 1920s through the 1990s she does a really nice job of bringing together the experiential aspects how

listening in radio and the american imagination - Aug 15 2023

web nov 30 2013 listening in radio and the american imagination from amos n andy and edward r murrow to wolfman jack and howard stern user review kirkus an

listening in radio and the american imagination amazon com - Feb 26 2022

web listening in radio and the american imagination by douglas susan j isbn 10 0816644233 isbn 13 9780816644230 univ of minnesota press 2004 softcover

**listening in radio and the american imagination from amos n** - Apr 30 2022

web nov 30 2013 listening in radio and the american imagination 434 add to wishlist listening in radio and the american imagination 434 by susan j douglas ebook

listening in radio and the american imagination amazon co uk - May 20 2021

---

**listening in radio and the american imagination ebook** - Mar 30 2022

web feb 25 2004 listening in radio and the american imagination kindle edition by douglas susan j download it once and read it on your kindle device pc phones or

[listening in radio and the american imagination](#) - Dec 27 2021

web listening in radio and the american imagination susan j douglas minnesota university press 9780816644230 kitap

**listening in radio and the american imagination** - Jun 13 2023

web in listening in susan douglas explores how listening has altered our day to day experiences and our own generational identities cultivating different modes of listening

**listening in radio and the american imagination google books** - Dec 07 2022

web lewis a erenberg listening in radio and the american imagination from amos ri andy and edward r mur row to wolffian jack and howard stern by susan j dou

*tech titans elon musk mark zuckerberg and more meet with u s* - Jul 22 2021

web 18 hours ago how to watch man utd v brighton in the us you can watch man utd v brighton live on peacock at 10am et most premier league matches will be shown on

**listening in radio and the american imagination archive org** - Jul 14 2023

web listening in radio and the american imagination from amos n andy and edward r murrow to wolfman jack and howard stern douglas susan jeanne 1950 free

**medical debt is putting some americans at risk of homelessness** - Aug 23 2021

web 2 days ago a mobile billboard is seen near the u s capitol on tuesday more than 20 tech industry leaders with meet wednesday behind closed doors with u s senators as part of

*listening in radio and the american imagination softcover* - Jan 28 2022

web university of michigan needs your feedback to better understand how readers are using openly available ebooks you can help by taking a short privacy friendly survey

[project muse listening in radio and the american](#) - Jan 08 2023

web susan douglas explores how listening has altered our day to day experiences and our own generational identities cultivating different modes of listening in different eras how

*listening in radio and the american imagination reading length* - Oct 25 2021

web 22 hours ago i imagine that s where he is shepherd says floating around the cosmos hearing music in all of the sounds that he hears he ll be sitting in the garden listening to

**listening in radio and the american imagination** - Nov 25 2021

web listening in is the first in depth history of how radio culture and content have kneaded and expanded the american psyche but listening in is more than a history it is also a

**listening in radio and the american imagination from amos n** - Oct 05 2022

web susan douglas explores how listening has altered our day to day experiences and our own generational identities cultivating different modes of listening in different eras how

**technical iso ts this is a preview of iso ts 8062 2 2013** - Jan 05 2023

web iso ts 8062 2 2013 e introduction this part of iso 8062 is to be regarded as a complementary process specific tolerance geometrical production specification gps

iso ts 8062 2 geometrical product specifications - Mar 07 2023

web jul 1 2013 geometrical product specifications gps dimensional and geometrical tolerances for moulded parts part 2

rules this part of iso 8062 gives the rules for

geometrical product specifications gps dimensional and - Jun 29 2022

web iso cd 8062 2 iso iv introduction this international standard is a geometrical product specification gps standard and is to be regarded as a general gps standard see

**iso 8062 1984 castings system of dimensional tolerances** - Jan 25 2022

web final text received or fdis registered for formal approval 50 20 1984 10 01 proof sent to secretariat or fdis ballot initiated 8 weeks

technical iso ts specification 8062 2 ipfs - Sep 01 2022

web iso ts 8062 2 2013 e introduction this part of iso 8062 is to be regarded as a complementary process specific tolerance geometrical production specification gps

**iso slashes sugar shortfall view sees market as balanced** - Oct 22 2021

web 12 hours ago iso revised its global production view in 2023 24 to 179 88 million tons from 174 84 previously world s sugar consumption was seen at 180 22 million tons 1 332

**iso ts 8062 2 2013 geometrical product specifications gps** - Oct 14 2023

web iso ts 8062 2 2013 gives the rules for geometrical dimensioning and tolerancing of final moulded parts and parts machined out of moulded parts it also gives rules and

*iso 8062 3 2007 en geometrical product specifications* - Feb 06 2023

web this first edition of iso 8062 3 together with iso 8062 1 and iso ts 8062 2 cancels and replaces iso 8062 1994 of which it constitutes a technical revision iso 8062 consists of

*technical iso ts specification 8062 2 iteh standards* - Aug 12 2023

web 8062 2 corrected 2013 07 01 2013 11 01 geometrical product specifications gps dimensional and geometrical tolerances for moulded parts rules spécification

**bs en iso 8062 3 geometrical product specifications bsi** - Apr 27 2022

web what s happened and why to give users greater clarity we ve updated and corrected the international standard that defines a system of tolerance grades and machining

iso ts 8062 2 2013 en geometrical product - Sep 13 2023

web this corrected version of iso 8062 2013 incorporates a change in 7 2 2 figure 8 introduction this part of iso 8062 is to be regarded as a complementary process

castings system of dimensional tolerances and machining - Jul 31 2022

web iso 8062 1994 e 0 iso rma ct 2 finished dimension minimum limit of size maximum limit of size i figure 2 tolerance limits 3 2 dimensional tolerance see iso 286 i 3 3

*iso 8362 2 2015 injection containers and accessories part 2* - Dec 24 2021

web abstract iso 8362 2 2015 specifies the shape dimensions material performance requirements and labelling of closures for injection vials covered by iso 8362 1 and iso

**technical iso ts specification 8062 2** - May 09 2023

web iso ts 8062 2 2013 e introduction this part of iso 8062 is to be regarded as a complementary process specific tolerance geometrical production specification gps

**iso ts 8062 2 2013 en standard eu** - Mar 27 2022

web iso ts 8062 2 2013 gives the rules for geometrical dimensioning and tolerancing of final moulded parts and parts machined out of moulded parts it also gives rules and

international iso standard 8062 3 - Jul 11 2023

web iso 8062 consists of the following parts under the general title geometrical product specifications gps dimensional and geometrical tolerances for moulded parts

**iso 8062 4 2017 geometrical product specifications gps** - May 29 2022

web iso 8062 4 2017 specifies general geometrical tolerances using surface profile tolerances related to a general datum system that remains on the final part it also specifies

**international iso standard 8062 4** - Oct 02 2022

web iso ts 8062 2 geometrical product specifications gps dimensional and geometrical tolerances for moulded parts part 2 rules iso 10135 geometrical product

*iso 8062 3 2023 en geometrical product specifications gps* - Jun 10 2023

web iso 8062 3 2023 en geometrical product specifications gps dimensional and geometrical tolerances for moulded parts  
part 3 general dimensional and

*iso 8062 3 2023 geometrical product specifications gps* - Dec 04 2022

web iso 8062 3 2023 geometrical product specifications gps dimensional and geometrical tolerances for moulded parts part 3  
general dimensional and

iso dis 8062 3 en geometrical product specifications gps - Apr 08 2023

web this part of iso 8062 specifies general dimensional and geometrical tolerances as well as machining allowance grades for  
castings as delivered to the purchaser in accordance

*iso ts 8062 2 geometrical product specifications gps* - Nov 03 2022

web jul 1 2013 iso ts 8062 2 1st edition jul 1 2013 geometrical product specifications gps dimensional and geometrical  
tolerances for moulded parts part 2 rules this

**fachdaten einzelsicht norm beuth de** - Feb 23 2022

web iso ts 8062 2 2013 07 geometrical product specifications gps dimensional and geometrical tolerances for moulded parts  
part 2 rules german title geometrische

iso 18562 2 2017 biocompatibility evaluation of breathing gas - Nov 22 2021

web iso 18562 2 2017 addresses potential contamination of the gas stream arising from the gas pathways which is then  
conducted to the patient iso 18562 2 2017 applies over the