

FORD

www.workshopmanuals.org

WORKSHOP MANUAL

As Used By Ford Main Dealer Garages

Ranger

DOWNLOAD

International Version
Workshop Repair Manual
2006-2011

Covers All Models and Years
All Diesel Engines
All Transmissions etc



Ford Ranger 2006-2011 Workshop Service Repair Manual

Step by Step Repair & Service instructions, Photos, Mechanical, Electrical Systems etc.

Ford Ranger 2006 2011 Service Repair Manual

Scott C. Dulebohn



Ford Ranger 2006 2011 Service Repair Manual:

Embark on a transformative journey with is captivating work, Grab Your Copy of **Ford Ranger 2006 2011 Service Repair Manual** . This enlightening ebook, available for download in a convenient PDF format , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

<https://staging.conocer.cide.edu/data/uploaded-files/Documents/Hydraulic%20Speed%20Control%20Answers%20Amatrol.pdf>

Table of Contents Ford Ranger 2006 2011 Service Repair Manual

1. Understanding the eBook Ford Ranger 2006 2011 Service Repair Manual
 - The Rise of Digital Reading Ford Ranger 2006 2011 Service Repair Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Ford Ranger 2006 2011 Service Repair Manual
 - 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 Ford Ranger 2006 2011 Service Repair Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ford Ranger 2006 2011 Service Repair Manual
 - Personalized Recommendations
 - Ford Ranger 2006 2011 Service Repair Manual User Reviews and Ratings
 - Ford Ranger 2006 2011 Service Repair Manual and Bestseller Lists
5. Accessing Ford Ranger 2006 2011 Service Repair Manual Free and Paid eBooks
 - Ford Ranger 2006 2011 Service Repair Manual Public Domain eBooks
 - Ford Ranger 2006 2011 Service Repair Manual eBook Subscription Services
 - Ford Ranger 2006 2011 Service Repair Manual Budget-Friendly Options

6. Navigating Ford Ranger 2006 2011 Service Repair Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Ford Ranger 2006 2011 Service Repair Manual Compatibility with Devices
 - Ford Ranger 2006 2011 Service Repair Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ford Ranger 2006 2011 Service Repair Manual
 - Highlighting and Note-Taking Ford Ranger 2006 2011 Service Repair Manual
 - Interactive Elements Ford Ranger 2006 2011 Service Repair Manual
8. Staying Engaged with Ford Ranger 2006 2011 Service Repair Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ford Ranger 2006 2011 Service Repair Manual
9. Balancing eBooks and Physical Books Ford Ranger 2006 2011 Service Repair Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ford Ranger 2006 2011 Service Repair Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ford Ranger 2006 2011 Service Repair Manual
 - Setting Reading Goals Ford Ranger 2006 2011 Service Repair Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ford Ranger 2006 2011 Service Repair Manual
 - Fact-Checking eBook Content of Ford Ranger 2006 2011 Service Repair Manual
 - 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

Ford Ranger 2006 2011 Service Repair Manual Introduction

In the digital age, access to information has become easier than ever before. The ability to download Ford Ranger 2006 2011 Service Repair Manual has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Ford Ranger 2006 2011 Service Repair Manual has opened up a world of possibilities. Downloading Ford Ranger 2006 2011 Service Repair Manual provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Ford Ranger 2006 2011 Service Repair Manual has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Ford Ranger 2006 2011 Service Repair Manual. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Ford Ranger 2006 2011 Service Repair Manual. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Ford Ranger 2006 2011 Service Repair Manual, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Ford Ranger 2006 2011 Service Repair Manual has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so,

individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Ford Ranger 2006 2011 Service Repair Manual Books

What is a Ford Ranger 2006 2011 Service Repair Manual PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Ford Ranger 2006 2011 Service Repair Manual PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. **How do I edit a Ford Ranger 2006 2011 Service Repair Manual PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Ford Ranger 2006 2011 Service Repair Manual PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Ford Ranger 2006 2011 Service Repair Manual PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. **How do I compress a PDF file?** You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. **Can I fill out forms in a PDF file?** Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

Find Ford Ranger 2006 2011 Service Repair Manual :

[hydraulic speed control answers amatrol](#)

[hydrovane 23 compressor operator manual](#)

[hvac customer service h](#)

[husqvarna viking 325 daisy instruction manual](#)

[husqvarna e20 manual](#)

[hvac unit 20 exam answers](#)

hustlin backwards hustlin backwards series book 1

hybrid car battery cooling

[hussmann m1ldge owners manual](#)

[hyosung 110 atv service manual auto](#)

hybrid owners manual porsche

hvac price guide

husqvarna viking er10 manual

[hypercom m4230 function guide](#)

husqvarna sewing machine 2015 user manual

Ford Ranger 2006 2011 Service Repair Manual :

marriage conferences retreats focus on the family - Aug 04 2022

web journey to us host this two day experience for marriages in your congregation this event is designed to help couples find their way back to a marriage that feel like the safest place on earth apply today resist the drift host this

marriage ministry the church without walls - May 13 2023

web the marriage ministry is designed to enrich the lives of couples and those engaged to be married this ministry host workshops retreats conferences seminars and cruises designed to equip and enrich the lives of families

how to plan a christian marriage retreat for couples - Jan 09 2023

web here are a few ideas for marriage retreat themes that you can cover at your marriage retreat communication many couples have a hard time communicating in fact a lack of communication in a marriage leads to many arguments and negative feelings you can offer workshops on areas such as how to express your feelings honestly

marriage ministry ideas on pinterest - Oct 06 2022

web explore a hand picked collection of pins about marriage ministry ideas on pinterest

how to take your marriage event to the next level - Jun 02 2022

web may 9 2019 make it personal find a professional videographer and interview several of the couples attending the event ahead of time ask them to share a story in relation to your theme for instance for the have serious fun segment ask them to share a story about a vacation they went on that was super fun

serving opportunities marriage ministry ministries rock church - Jan 29 2022

web rock marriage ministry recognizes an immediate responsibility to help couples begin to build and sustain better marriages and to help restore those marriages threatened by divorce no matter how long you have been married there are opportunities to serve is god calling you to allow your marriage to make a difference in other marriages

29 couples seminar activities ideas couples marriage pinterest - Dec 28 2021

web couples seminar activities 29 pins 3y k collection by kendal turner similar ideas popular now marriage advice christian marriage happy marriage relationship tips healthy relationships distance relationships romantic gestures for him love boyfriend boyfriend quotes romantic anniversary gifts romantic good night celtic love knot

20 creative ideas for women s ministry events remo co - Feb 27 2022

web august 4 2023 event ideas remo staff women s ministry events play a crucial role in the spiritual growth and empowerment of women within the church community these events provide a platform for women to come together share their experiences and learn from one another

marriage ministry curriculum activities for churches grace for marriage - Dec 08 2022

web how couples use grace for marriage pastor hunter hosts regular marriage sessions weekly or monthly to help couples apply the gospel to their marriages after each session couples leave to go on a date night the church provides childcare for a few hours so the couples can enjoy their alone time and practice what they ve just learned

4 marriage ministry ideas to bless couples in your church - Aug 16 2023

web if you start developing a positive and supportive marriage ministry at your church you ll bless couples and strengthen families as you implement these marriage ministry ideas and help couples seek god in their marriages they ll be able to nurture strong relationships that can endure for life

ideas for a marriage ministry our everyday life - Jul 15 2023

web dec 11 2017 a marriage ministry can serve those couples with strong marriages as well as those whose marriages are almost falling apart running a marriage ministry properly requires you to do many different things to impact each type of couple consider the couple ministry ideas that best fit your congregation

lessons for couples in ministry just between us - Sep 05 2022

web jun 24 2021 lessons for couples in ministry just between us once upon a time there lived a professional working mother named eve who had two ph t s i e putting hubby through two children under three and one on the way eve could hardly wait for the next four months to finish

couples ministry ideas on pinterest - Mar 31 2022

web explore a hand picked collection of pins about couples ministry ideas on pinterest

fun icebreaker activities for married christian couples - Mar 11 2023

web dec 11 2018 if you invite married couples from your church to your home or a church event try some icebreaker activities to kick off your event an icebreaker encourages people to interact and make friends many icebreakers need little more than paper or pen and couples can get started almost as soon as they come in the door

married couples ministry first shiloh baptist church - May 01 2022

web meet the needs of married couples spiritually socially culturally intellectually financially and sentimentally sexual needs help individuals grow together to bring together the married couples in the church through fellowship in a well structured christian environment

30 activities for your church s married couples group - Jun 14 2023

web activities to try indoor game night board games quizzes ping pong pool charades back yard olympics croquet horseshoes tag football soccer volleyball miniature golf at home movie or movie at the theater 60s or 70s party with costumes professional sporting event get seats in a group instead of just across the row

10 great ideas to help strengthen marriages in the church how - Apr 12 2023

web jun 10 2014 i have devised a list of ten ministry ideas to empower marriages in your church 10 great ideas to help strengthen marriages in the church how to reinforce the core of marriages in your ministry lead by example

sample games for church marriage ministry our everyday life - Jul 03 2022

web home events entertaining sample games for church marriage ministry by marcelina hardy stockbyte stockbyte getty images marriage is a sacrament which is a blessing from god to preserve its sanctity and strengthen the bond between man and wife it s important to strengthen the emotional connection they have for one another

start a marriage ministry in your church familylife - Feb 10 2023

web they provide training to volunteer couples assist in assessing needs offer ideas for events and curriculum suggestions for small groups and generally guide your church in developing and sustaining a marriage ministry

strategies for promoting marriage in the church usccb - Nov 07 2022

web ministry events for youth and young adults should actively work to include married role models as leaders and mentors these couples stand as witnesses to the sacrament of matrimony and can offer a healthy ideal for individuals without

manual del instructor para ser utilizado con cómo administrar un - Jan 16 2023

web manual del instructor para usar con cómo administrar un museo manual práctico Índice 1 introducción 1 1 el uso de cómo administrar un museo en la formación y el

manual practico de museos pdf epub doc para leer online - Nov 02 2021

manual de normas tc3a9cnicas para museos - Mar 06 2022

web jun 25 2023 manual practico de museos manuales de museística 2 8 downloaded from uniport edu ng on june 25 2023 by guest new world saw a huge influx of exotic

manual practico de museos manuales de museística - Jun 09 2022

web oct 9 2020 leer en linea manual práctico de museos manuales de museística patrimonio y turismo cultural de andrés gutiérrez usillos libro pdf epub mobile

manual práctico de museos request pdf researchgate - Oct 13 2022

web 11 00 20 00 edición añadir al carrito en este manual el autor esta ble ce una serie de día lo gos entre los dife ren tes ele men tos del museo arqui tec tu ras obje tos usua rios

manual práctico de museos 1 manuales de museística - Jun 21 2023

web manual práctico de museos 1 manuales de museística patrimonio y turismo cultural de gutiérrez usillos andrés en iberlibro com isbn 10 8497046196 isbn 13

manual practico de museos manuales de museística - Sep 12 2022

web manual de historia de la museología 9 manuales de museística patrimonio y turismo cultural lorente jesús pedro amazon es libros

manual de historia de la museología 9 manuales de museística - Jul 10 2022

web lee un libro manual práctico de museos manuales de museística patrimonio y turismo cultural de andrés gutiérrez usillos libros gratis

manual práctico de museos book 2012 worldcat org - Feb 17 2023

web get this from a library manual práctico de museos andrés gutiérrez usillos

manual práctico de museos ediciones trea - Aug 11 2022

web manual practico de museos manuales de museística manual práctico de museología museografía y técnicas expositivas mar 08 2023 entre la ecología la técnica y la

descargar manual práctico de museos manuales de museística - Apr 07 2022

web jun 16 2023 manual practico de museos manuales de museística 1 9 downloaded from uniport edu ng on june 16 2023

by guest manual practico de museos manuales

lee un libro manual práctico de museos manuales de museística - Feb 05 2022

web libro manual practico de museos pdf twittear en este libro el autor establece una serie de diálogos entre los diferentes elementos del museo arquitectura objetos usuarios y

cómo administrar un museo manual básico centro - Dec 15 2022

web jan 1 2012 request pdf on jan 1 2012 andres gutierrez usillos published manual práctico de museos find read and cite all the research you need on researchgate

cómo administrar un museo manual práctico internacional - Mar 18 2023

web description gestión del museo gestión de colecciones climatología práctica museística exposición presentación conservación gestión de los riesgos visitante seguridad

manual practico de museos manuales de museistica - Dec 03 2021

manual practico de museos manuales de museistica pdf - Jan 04 2022

cómo administrar un museo manual práctico unesco - Jul 22 2023

web cómo administrar un museo manual práctico corporate author international council of museums corporate author unesco office havana and regional bureau for culture

vista completa manual práctico de museos - Apr 19 2023

web a manuales de museística patrimonio y turismo cultural v 1 500 a contiene índice 504 a contiene bibliografía 588 a descripción basada en recurso en línea título de la

manual práctico de gestión de museos bibliopos - Nov 14 2022

web manual practico de museos manuales de museistica auxiliares administrativos del cabildo de tenerife supuestos prcticos jan 07 2020 gua del mdico prctico v 2 jun

manual práctico de museos 1 manuales de museística - Aug 23 2023

web manual práctico de museos 1 manuales de museística patrimonio y turismo cultural tapa blanda 2 abril 2012 en este manual el autor establece una serie de diálogos

descargar manual práctico de museos manuales de blogger - May 08 2022

web mar 11 2020 descargar gratis manual práctico de museos manuales de museística patrimonio y turismo cultural de andrés gutiérrez usillos pdf epub mobi gratis

libro manual práctico de museos manuales de museística - May 20 2023

web libro manual práctico de museos manuales de museística patrimonio y turismo cultural andrés gutiérrez usillos isbn 9788497046190 comprar en buscalibre ver

drill string design bha design amik ogs secure4 khronos - May 12 2023

web may 25 2023 drill string design bha design amik ogs advanced drill string design koc ogs 5 feb 15 19 optimization of drilling operational parameters tubular stability amp bha design sudanese hard rock drilling from hydraulic dth hammer to laser tool may be added to any bha with enough flow e g tu freiberg is working on this design

drill string design bha design amik ogs home rightster com - Dec 07 2022

web march 3rd 2018 imam tvoj broj sofi kinsela pdf drill string design bha design amik ogs pdf pdf iblis menggugat tuhan pdf pdf fishing lure templates pdf author s personal copy luca baradello april 29th 2018 drill string gravitational load reciprocity neutral point a b s t r a c t we design a full wave modeling method to simulate flexural

drillstring bha design pdf classical mechanics physics - Sep 04 2022

web drill string design drill pipe pressure control equipment drill string loads monitoring equipment bottom hole assembly bha design purpose components assemblies slick drill string design bha design usama bin sabir 9 140910004106 phpapp02 9 140910004106 phpapp02 patou patrice operations design in drill string

drill string design bha design pdf strength of materials - Jul 14 2023

web dpt drill string and bha design fnc drillstring connections there are 17 ncs in use nc 10 1 1 16 through nc 77 7 3 4 typical sizes nc 50 for tool joints with 6 1 2 od for 5 pipe and nc 38 for 4 3 4 tool joints and 3 1 2 pipe seal is provided by shoulder not threads

drill string design bha design amik ogs secure4 khronos - Nov 06 2022

web drill string design bha design amik ogs bha bore hole assembly design and bit selection drill string design torque and drag modeling for directional wells ogs iwcf ogs sun 15 apr 2018 09 49 00 gmt drill string design bha pdf drill string design amp bha design free download as pdf file pdf text file txt or view drill

drill string design bha design amik ogs pdf 2023 roohish - Jan 08 2023

web drill string design bha design amik ogs pdf upload dona k ferguson 1 4 downloaded from roohish com on july 15 2023 by dona k ferguson drill string design bha design amik ogs pdf in a digitally driven earth wherever monitors reign great and immediate interaction drowns out the subtleties of language the profound techniques and

drill string design bha design amik ogs secure4 khronos - Oct 05 2022

web be confused to enjoy every book gatherings drill string design bha design amik ogs that we will certainly offer its for that reason surely basic and as a outcome facts isnt it you have to preference to in this place

drill string design bha design amik ogs pdf m central edu - Mar 10 2023

web pdf drill string design drilling techniques impact wear stop unnecessary reaming and back reaming with highly tensioned drill strings because the correct bottomhole assembly bha continuously reams the hole being

drill string design bha design amik ogs pdf wef tamu - Apr 30 2022

web we present drill string design bha design amik ogs and numerous book collections from fictions to scientific research in any way along with them is this drill string design bha design amik ogs that can be your partner drill string design bha design amik ogs downloaded from wef tamu edu by guest ewing slade

drill string design bha design amik ogs pdf ftp bonide - Jun 13 2023

web 4 drill string design bha design amik ogs 2021 12 01 includes legislation of major oil and gas producing nations pertaining to offshore operations oil and gas incorporates case studies of major offshore operations oil and gas accidents and lessons learnt discusses environment impact of offshore operations analysis and control of oilwell

drill string design bha design amik ogs reserve lasd org - Aug 03 2022

web aug 10 2023 pdf drill string design bha design amik ogs pdf pdf iblis menggugat tuhan pdf pdf fishing lure templates pdf aade 01 nc ho 54 april 11th 2018 design criteria for the water based system the bha was changed out laid down string stabilizer power failed several times and the drill string remained

drill string design bha design amik ogs secure4 khronos - Jul 02 2022

web jun 8 2023 the drill string design bha design amik ogs is globally consistent with any devices to browse drill string design bha design amik ogs is reachable in our literature assemblage an online access to it is set as public so you can get it instantaneously

drill string design bha design amik ogs download only - Apr 11 2023

web design and analysis of a test rig for modeling the bit formation interface in petroleum drilling applications modeling and control of drillstring dynamics for vibration suppression technical english for geosciences

drill string design bha design amik ogs secure4 khronos - Mar 30 2022

web drill string design bha design amik ogs drill string design bha design amik ogs when folk should go to the online bookstores look up commencement by store shelf by shelf it is in point of certainly troublesome however when realize you

drill string design bha design academia edu - Aug 15 2023

web protect the drill string from bending and torsion 2 help to control direction and inclination of wells 3 drill straighter holes or vertical holes 4 provide pendulum effect at low wob 5 reduce dog legs key seats and ledges 6 improve

drill string design bha design amik ogs pdf - Jun 01 2022

web getting this info acquire the drill string design bha design amik ogs join that we provide here and check out the link you could buy lead drill string design bha design amik ogs or get it as soon as feasible you could quickly download this drill string

design bha design amik ogs after getting deal so later you require the ebook swiftly

drill string design bha design amik ogs secure4 khronos - Dec 27 2021

web drill string design bha design amik ogs is universally compatible with any devices to read if you associate custom such a referred drill string design bha design amik

drill string design bha design amik ogs uniport edu - Feb 26 2022

web drill string design bha design amik ogs by online you might not require more time to spend to go to the book launch as without difficulty as search for them in some cases you likewise get not discover the statement drill string design bha design amik ogs that you are looking for it will no question squander the time

drill string design bha design amik ogs pdf old talentsprint - Feb 09 2023

web drill string design bha design amik ogs downloaded from old talentsprint com by guest hooper jesus proceedings of the ocean drilling program crc press this doe project was undertaken to develop and test an instrumented data acquisition sub that is mounted in a drill string below the top drive and used to detect downhole events data

drill string design bha design amik ogs - Jan 28 2022

web drill string design bha design amik ogs olympic perspectives jul 15 2020 historical research on the olympic movement is highly valuable as it displays processes of continuity and transformation by which knowledge building processes on the olympic movement its structure and on olympic sport can be expanded