

G61MP SERIES UNITS

G61MP series units are high-efficiency multi-position (up-flow, downflow, horizontal right and left) gas furnaces manufactured with Lennox Duralok Plus™ heat exchangers formed of aluminized steel. G61MP units are available in heating capacities of 44,000 to 132,000 Btuh (13.0.0 to 38.6 kW) and cooling applications from 2 to 5 tons (7.0 kW to 17.5 kW) up to 5 tons. Refer to Engineering Handbook for proper sizing.

Units are factory equipped for use with natural gas. Kits are available for conversion to LPG operation. G61MP model units are equipped with the Two-Stage Integrated SureLight control. All G61MP units meet the California Nitrogen Oxides (NO_x) Standards and California Seasonal Efficiency requirements. All units use a redundant gas valve to assure safety shut-off as required by C.S.A.

All specifications in this manual are subject to change. Procedures outlined in this manual are presented as a recommendation only and do not supersede or replace local or state codes. In the absence of local or state codes, the guidelines and procedures outlined in this manual (except where noted) are recommendations only and do not constitute code.

TABLE OF CONTENTS

Specifications	Page 2
Blower Data	Page 4
Parts Identification	Page 7
I Unit Components	Page 8
II Installation	Page 21
III Start Up	Page 35
IV Heating System Service Checks	Page 36
V Typical Operating Characteristics	Page 39
VI Maintenance	Page 40
VII Wiring and Sequence of Operation	Page 43
VIII Field Wiring and Jumper Setting	Page 59
IX Control Board Troubleshooting	Page 63

**⚠ IMPORTANT**

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

⚠ WARNING

Electric shock hazard. Can cause injury or death. Before attempting to perform any service or maintenance, turn the electrical power to unit OFF at disconnect switch(es). Unit may have multiple power supplies.

⚠ WARNING

Sharp edges. Be careful when servicing unit to avoid sharp edges which may result in personal injury.

Lennox G61mpv Service Manual

Xiang Xie



Lennox G61mpv Service Manual:

Right here, we have countless book **Lennox G61mpv Service Manual** and collections to check out. We additionally offer variant types and next type of the books to browse. The tolerable book, fiction, history, novel, scientific research, as capably as various other sorts of books are readily nearby here.

As this Lennox G61mpv Service Manual, it ends happening innate one of the favored books Lennox G61mpv Service Manual collections that we have. This is why you remain in the best website to look the incredible ebook to have.

<https://staging.conocer.cide.edu/book/publication/index.jsp/G%20Is%20For%20Growing%2030%20Years%20Of%20Research%20On%20Children%20And%20Sesame%20Street.pdf>

Table of Contents Lennox G61mpv Service Manual

1. Understanding the eBook Lennox G61mpv Service Manual
 - The Rise of Digital Reading Lennox G61mpv Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Lennox G61mpv Service 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 Lennox G61mpv Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lennox G61mpv Service Manual
 - Personalized Recommendations
 - Lennox G61mpv Service Manual User Reviews and Ratings
 - Lennox G61mpv Service Manual and Bestseller Lists
5. Accessing Lennox G61mpv Service Manual Free and Paid eBooks

- Lennox G61mpv Service Manual Public Domain eBooks
- Lennox G61mpv Service Manual eBook Subscription Services
- Lennox G61mpv Service Manual Budget-Friendly Options
- 6. Navigating Lennox G61mpv Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Lennox G61mpv Service Manual Compatibility with Devices
 - Lennox G61mpv Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lennox G61mpv Service Manual
 - Highlighting and Note-Taking Lennox G61mpv Service Manual
 - Interactive Elements Lennox G61mpv Service Manual
- 8. Staying Engaged with Lennox G61mpv Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lennox G61mpv Service Manual
- 9. Balancing eBooks and Physical Books Lennox G61mpv Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lennox G61mpv Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lennox G61mpv Service Manual
 - Setting Reading Goals Lennox G61mpv Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lennox G61mpv Service Manual
 - Fact-Checking eBook Content of Lennox G61mpv Service 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

Lennox G61mpv Service Manual Introduction

In the digital age, access to information has become easier than ever before. The ability to download Lennox G61mpv Service 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 Lennox G61mpv Service Manual has opened up a world of possibilities. Downloading Lennox G61mpv Service 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 Lennox G61mpv Service 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 Lennox G61mpv Service 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 Lennox G61mpv Service 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 Lennox G61mpv Service 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 Lennox G61mpv Service 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 Lennox G61mpv Service Manual Books

What is a Lennox G61mpv Service 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 Lennox G61mpv Service 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 Lennox G61mpv Service 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 Lennox G61mpv Service 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 Lennox G61mpv Service 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 Lennox G61mpv Service Manual :

g is for growing 30 years of research on children and sesame street

[games to play with babies](#)

[gabriel moulins san francisco peninsula town country homes 19101930](#)

g6 reading games tchr notes ps

[galileo in 90 minutes](#)

garcia los mansilla y la musica

[garden at eichstatt](#)

gamekeeping a guide for amateur keepers and shooting syndicates

[garcilaso de la vega and the italian renaissance](#)

galaxy of games and activities for the kindergarten

~~g8 and his battle aces december 1933~~

ganymede club

g protein pathways vol. 343 pt. a receptors

[futurism and dadaism history of art history of painting v 20](#)

game dog

Lennox G61mpv Service Manual :

instinct definition meaning britannica dictionary - Jan 17 2023

web 1 a a way of behaving thinking or feeling that is not learned a natural desire or tendency that makes you want to act in a particular way count our first instinct was to run cats possess a natural hunting instinct

instinct definition meaning dictionary com - Feb 18 2023

web an inherited tendency of an organism to behave in a certain way usually in reaction to its environment and for the purpose of fulfilling a specific need the development and

[instinct wikipedia](#) - Sep 25 2023

web instincts are inborn complex patterns of behaviour that exist in most members of the species and should be distinguished from reflexes which are simple responses of an organism to a specific stimulus such as the contraction of the pupil in response to bright light or the spasmodic movement of the lower leg when the knee is tapped the

[instinct definition facts britannica](#) - Jun 22 2023

web instinct an inborn impulse or motivation to action typically performed in response to specific external stimuli today instinct is generally described as a stereotyped apparently unlearned genetically determined behaviour pattern defining instinct in the past the term instinct has stood for a number of distinct conceptions about animal behaviour for [development evolving the origins and meanings of instinct](#) - Mar 19 2023

web today various animals are said to possess a survival instinct migratory instinct herding instinct maternal instinct or language instinct but a closer look reveals that these and other instincts are not satisfactorily described as inborn pre programmed hardwired or genetically determined

instinct simple english wikipedia the free encyclopedia - May 21 2023

web animals with nervous systems are born with instincts an instinct is a part of the behaviour of an organism it is inherited not learned however the term does not include the operation of sense organs and does not include the normal working of the autonomic nervous system

instinct english meaning cambridge dictionary - Aug 24 2023

web instinct definition 1 the way people or animals naturally react or behave without having to think or learn about it learn more

the instinct definition what it is the science behind it - Apr 20 2023

web instincts are sometimes triggered without external stimuli and encompass a broader set of more complex behaviors reflexes are always triggered by external stimuli and are usually simple behaviors what s interesting is that reflexes can *instinct definition meaning merriam webster* - Jul 23 2023

web seeing the baby aroused all her maternal instincts he has been guided throughout his career by his political instincts mere instinct alerted her to the danger he knew by

human instincts university of texas at austin - Dec 16 2022

web sep 19 2012 like all animals humans have instincts genetically hard wired behaviors that enhance our ability to cope with vital environmental contingencies our innate fear of snakes is an example other instincts including denial revenge tribal loyalty greed and our urge to procreate now threaten our very existence

[taking the work out of networking udemy](#) - Sep 09 2023

web english cc what you ll learn make networking less transactional and more authentic discover why it s beneficial to make and keep connections throughout your working life

taking the work out of networking your guide to making and - Jun 06 2023

web taking the work out of networking an introvert s guide to making connections that count show full title by karen wickre 4 5 4 ratings about this ebook for

taking the work out of networking an introvert s guide to - Sep 28 2022

web taking the work out of networking is the first networking book that i ve read that doesn t make me feel like i need to take a shower after reading each page karen is a thoughtful

taking the work out of networking an introvert s - Nov 30 2022

web her book taking the work out of networking an introvert s guide to connections that count reflects her lifelong interest in making meaningful connections and building a

guide to effective authentic networking princeton university - May 25 2022

web simon schuster 25 288p isbn 978 1 5011 9927 1 former twitter editorial director wickre delivers a sensible if unremarkable guide to networking for those who d rather

taking the work out of networking an introvert s guide to - Mar 23 2022

web 2 days ago after you reset your network settings remember to reconnect your phone to your home and work wi fi networks iphone check out our guide to hidden

taking the work out of networking your guide to making and - Feb 02 2023

web learn to nurture a vibrant circle of reliable contacts without leaving your comfort zone networking has garnered a reputation as a sort of necessary evil some people relish

why banks are suddenly closing down customer accounts - Dec 20 2021

web karen wickre taking the work out of networking an introvert s guide to making connections that count hardcover 10 jan 2019 by karen wickre author 4 0 133

taking the work out of networking your guide to making and - Oct 30 2022

web taking the work out of networking your guide to making and keeping great connections wickre karen amazon sg books

pdf taking the work out of networking by karen wickre perlego - Apr 23 2022

web nov 27 2018 taking the work out of networking an introvert s guide to making karen wickre google books taking the work out of networking an introvert s

taking the work out of networking your guide to making and - Oct 10 2023

web oct 29 2019 taking the work out of networking your guide to making and keeping great connections wickre karen on amazon com free shipping on qualifying

taking the work out of networking an introvert s guide to - Sep 16 2021

signal booster 10 easy ways to enhance your cellphone - Jan 21 2022

web nov 27 2018 taking the work out of networking an introvert s guide to making connections that count wickre karen on

amazon com free shipping on qualifying

taking the work out of networking your guide to making and - Apr 04 2023

web taking the work out of networking an introvert s guide to making connections that count wickre karen amazon in books
books health family personal

taking the work out of networking your guide to making and - Aug 28 2022

web taking the work out of networking an introvert s guide to making connections that count by karen wickre
recommendation if you hate networking twitter and google

taking the work out of networking an introvert s guide to - Oct 18 2021

taking the work out of networking on apple books - Jan 01 2023

web learn to nurture a vibrant circle of reliable contacts without leaving your comfort zone networking has garnered a
reputation as a sort of necessary evil some people

taking the work out of networking your guide to making and - Jul 07 2023

web taking the work out of networking your guide to making and keeping great connections wickre karen 9781501199288
books amazon ca

taking the work out of networking an introvert s guide to - Nov 18 2021

web taking the work out of networking an introvert s guide to making connections that count kindle edition by karen wickre
author format kindle edition see all formats

taking the work out of networking by karen wickre scribd - May 05 2023

web taking the work out of networking your guide to making and keeping great connections audible audiobook unabridged
karen wickre author narrator simon

taking the work out of networking an introvert s - Aug 08 2023

web buy taking the work out of networking your guide to making and keeping great connections reprint by wickre karen isbn
9781501199288 from amazon s book

taking the work out of networking an introvert s guide to - Feb 19 2022

web nov 5 2023 the reasons vary but the scene that plays out is almost always the same bank customers get a letter in the
mail saying their institution is closing all of their

taking the work out of networking vupy org - Jun 25 2022

web the common networking advice for introverts are variations on the theme of overcoming or fixing their quiet tendencies
but karen wickre is a self described introvert who has

[taking the work out of networking an introvert s guide to](#) - Jul 27 2022

web guide to effective authentic networking 22 3 work your network figure out your who whether or not you realize it you already have a network networks do not just

[taking the work out of networking an introvert s guide to](#) - Mar 03 2023

web oct 29 2019 ldquo for introverts who panic at the idea of networking wickre rsquo s book is a deep calming breath rdquo 8212 sophia dembling author of the

chirurgie orthopédique à istanbul turquie tarif des cliniques - Aug 04 2022

web les chirurgies du genou de l'épaule et des hanches sont les plus courantes en traumatologie et orthopédie à istanbul on peut également compter la chirurgie du pied et de la cheville la chirurgie de la colonne vertébrale le remplacement articulaire la chirurgie orthopédique pédiatrique l'oncologie du système musculo squelettique

[orthopa c die traumatologie 2e a c dition pdf pdf](#) - Apr 12 2023

web orthopa c die traumatologie 2e a c dition pdf introduction orthopa c die traumatologie 2e a c dition pdf pdf sports injuries mahmut nedim doral 2015 06 29 sports injuries prevention diagnosis treatment and rehabilitation covers the whole field of sports injuries and is an

fatih ortopedi ve travmatoloji doktortakvimi - Feb 27 2022

web ortopedi ve travmatoloji 17 görüş cerrahpaşa mahallesi koca mustafapaşa caddesi no 34 e fatih harita İstanbul Üniversitesi cerrahpaşa cerrahpaşa tıp fakültesi

[orthopa c die traumatologie 2e a c dition c daniel mote book](#) - Jul 03 2022

web orthopa c die traumatologie 2e a c dition recognizing the artifice ways to acquire this book orthopa c die traumatologie 2e a c dition is additionally useful you have remained in right site to start getting this info acquire the orthopa c die traumatologie 2e a c dition link that we allow here and check out the link

[acta orthopaedica et traumatologica turcica wikipedi](#) - Jul 15 2023

web acta orthopaedica et traumatologica turcica 1962 den beri türk ortopedi ve travmatoloji derneği nin totder resmi yayın organıdır dergi kendi alanında dünyadaki en saygın ve en uzun süreli türkçe hakemli yayın olma özelliğine sahiptir ortopedi ve travmatoloji alanında tanı tedavi koruyucu hekimlik methodları ve ortopedi ve

tus ortopedi ve travmatoloji taban puanları ve sıralamaları 2023 - Feb 10 2023

web jun 16 2023 güncel tus ortopedi ve travmatoloji taban puanları 2023 tamamı bu sayfada sba sağlık bakanlığı adına Üniversite tip kontenjanlarını eah sağlık bakanlığı eğitim ve araştırma hastanesi kontenjanlarını ifade etmektedir kont yer yazan sütunda 2023 1 nisan yerleştirmesinde açılan kontenjan ve yerleşen aday

orthopa c die traumatologie dossiers progressifs - Oct 06 2022

web guides you could enjoy now is orthopa c die traumatologie dossiers progressifs below orthopa c die traumatologie dossiers progressifs downloaded from georgiacollegesurvey gcsu edu by guest malone mason leading a surgical revolution springer instrumented gait analysis systems offer objective evaluation of the

orthopa c die traumatologie dossiers progressifs pdf copy - Mar 11 2023

web orthopa c die traumatologie dossiers progressifs pdf pages 3 27 orthopa c die traumatologie dossiers progressifs pdf upload mia f hayda 3 27 downloaded from status restek wwu edu on august 31 2023 by mia f hayda injury prevention this book offers valuable resource to orthopaedists sports physicians as well as physiotherapists

orthopa c die traumatologie dossiers progressifs bernard - Jan 29 2022

web this orthopa c die traumatologie dossiers progressifs as one of the most keen sellers here will categorically be accompanied by the best options to review hypnosis and hypnotherapy with children fourth edition daniel p kohen 2012 03 29 updated and revised in response to developments in

orthopedics and traumatology acibadem sađlık grubu - May 13 2023

web jan 27 2020 pediatric orthopedics and traumatology the unit deals with follow up and treatment of congenital dysplasia of hip for children younger than 16 years of age pes equinovarus cerebral paralysis myelomeningocele congenital deformities pes planus tumors developmental disorders and fractures

orthopa c die traumatologie pdf copy voto uncal edu - Dec 28 2021

web orthopa c die traumatologie pdf orthopa c die traumatologie pdf this is likewise one of the factors by obtaining the soft documents of this orthopa c die traumatologie pdf by online you might not require more era to spend to go to the book introduction as well as search for them in some cases you likewise accomplish not discover the

orthopa c die traumatologie neurocme med ucla edu - Nov 07 2022

web orthopa c die traumatologie 1 orthopa c die traumatologie thank you unquestionably much for downloading orthopa c die traumatologie most likely you have knowledge that people have see numerous time for their favorite books in imitation of this orthopa c die traumatologie but end up in harmful downloads

download solutions orthopa c die traumatologie - Jun 14 2023

web therapie in der unfallchirurgie und der traumatologischen orthopädie die in klinik und praxis auftreten können in über 100 tips und tricks werden die probleme geschildert und lösungen oder alternativen vorgeschlagen die häufig besonders kostengünstig un patientenfreundlich sind die beiträge sind

operative orthopädie und traumatologie home springer - Aug 16 2023

web operative orthopädie und traumatologie die operative orthopädie und traumatologie wendet sich an alle operativ tätige Ärztinnen und Ärzte im bereich der orthopädie traumatologie allgemein Chirurgie handchirurgie sportmedizin Ärztinnen und

Ärzte anderer chirurgischer fachrichtungen sowie niedergelassenen

orthopa c die traumatologie uniport edu ng - Jun 02 2022

web jul 6 2023 orthopa c die traumatologie 2 12 downloaded from uniport edu ng on july 6 2023 by guest with the aid of high quality illustrations take home messages and key recommendations are highlighted this book will be of value to practitioners and researchers alike spezielle plastische chirurgie erwin gohrbrandt 1973 01 01

ortopedi ve travmatoloji anadolu sağlık merkezi - Sep 05 2022

web anadolu sağlık merkezi ortopedi ve travmatoloji bölümümüzde kas iskelet sistemi hastalıklarının tanısı tedavisi ve rehabilitasyonu konularında hizmet veriyoruz ortopedi ve travmatoloji nin alanına giren konular eklem protez cerrahisi diz omuz kalça dirsek protezleri el ve üst ekstremitte cerrahisi

ortopedi ve travmatoloji ministry of health - Mar 31 2022

web adres ve dahili numara başakşehir mahallesi g 434 caddesi no 21 başakşehir İstanbul 90 212 909 60 00 nasıl gidilir ortopedi ve travmatoloji kliniğinin yer aldığı c blok poliklinik ve servislerine hastanemizin web sitesinde tarif edildiği şekilde toplu taşıma veya özel araç ile ulaşılabilir klinikle ilgili anahtar

orthopa c die traumatologie dossiers progressifs - Dec 08 2022

web 4 orthopa c die traumatologie dossiers progressifs 2022 05 01 the efforts of the ao s affiliated surgeons undertaken largely on a volunteer basis and with their own financial resources serve as a stellar example of social entrepreneurship today the ao foundation numbers over 20 000 surgeon

ortopedik protez ve ortez 2023 taban puanları ve sıralamaları - May 01 2022

web jun 13 2023 tablo sütunları aşağıdaki gibidir ortopedik protez ve ortez bölümü 2023 taban puanları en düşük 186 18461 en yüksek 341 41984 tür ortopedik protez ve ortez bölümü 2023 başarı sıralaması en düşük 1723956 en yüksek 267570 tir ortopedik protez ve

orthopa c die traumatologie dossiers progressifs - Jan 09 2023

web most less latency times to download any of our books following this one merely said the orthopa c die traumatologie dossiers progressifs is universally compatible past any devices to read orthopa c die traumatologie dossiers progressifs downloaded from georgiacollegesurvey gcsu edu by guest brooks howell nimesulide actions and