# **HYFRECATOR PLUS**

# Table of Contents

Section	Title
1	Symbols
2	Foreword
3	General Information
4	Operating Controls and Indicators
5	Theory of Operation
6	Circuit Description
7	Service Information
8	Suggestions for First Time Operation
9	Removal and Replacement Procedures
10	Safety and Performance Checks
1.1	Problem Solving
12	Calibration
1.3	Maintenance
14	Warranty 13
15	Repair Return Policy
1.6	Specifications 14
17	Figures and Schematics
Figure	Title
1	Front, Side and Bottom Panel Controls
2	Back Panel Controls
3	Block Diagram
4	Power Output-Voltage, Low & Bipolar
5	Power Output-Voltage, High
6	Output Power vs. Display Setting; Bipolar, 500 Ohm Load
7	Output Power vs. Display Setting; High, 500 Ohm Load
8	Output Power vs. Display Setting; Low, 500 Ohm Load
9	High Load Curve
10	Low Load Curve
11	Bipolar Load Carve
12	Mother PWB Detail & Schematic, sheet 1
1.3	Mother PWB Parts List & Schematic, sheet 2
1.4	Display PWB Schematic
15	Display PWB Detail and Display/Main Housing Page I is:



# **Hyfrecator Plus Service Manual**

Jianjun Gao

**Hyfrecator Plus Service Manual:** 

Uncover the mysteries within Explore with is enigmatic creation, Embark on a Mystery with **Hyfrecator Plus Service**Manual . This downloadable ebook, shrouded in suspense, is available in a PDF format (\*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

https://staging.conocer.cide.edu/results/scholarship/Download\_PDFS/Kuba\_90khmodel\_Perekhodnoi\_Ekonomiki\_I\_Sotrudnich\_estvo\_S\_Robiei.pdf

#### **Table of Contents Hyfrecator Plus Service Manual**

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

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

### **Hyfrecator Plus Service Manual Introduction**

In todays digital age, the availability of Hyfrecator Plus Service Manual 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 Hyfrecator Plus Service Manual books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Hyfrecator Plus Service Manual 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 Hyfrecator Plus Service Manual 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, Hyfrecator Plus Service Manual 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 youre 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 Hyfrecator Plus Service Manual 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 Hyfrecator Plus Service Manual 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, Hyfrecator Plus Service Manual 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 Hyfrecator Plus Service Manual books and manuals for download and embark on your journey of knowledge?

### **FAQs About Hyfrecator Plus Service Manual Books**

- 1. Where can I buy Hyfrecator Plus Service Manual books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
- 2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
- 3. How do I choose a Hyfrecator Plus Service Manual book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
- 4. How do I take care of Hyfrecator Plus Service Manual books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
- 5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
- 6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
- 7. What are Hyfrecator Plus Service Manual audiobooks, and where can I find them? Audiobooks: Audio recordings of

- books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
- 8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
- 9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
- 10. Can I read Hyfrecator Plus Service Manual books for free? Public Domain Books: Many classic books are available for free as theyre in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

## **Find Hyfrecator Plus Service Manual:**

kuba 90khmodel perekhodnoi ekonomiki i sotrudnichestvo s robiei kpf vision and proceb europe 19902002

#### la cancion de las esferas

kropp och politik hf,lsoupplysning som samhf,llbpegel frf,n 30 till 90tal

### krestovyi pokhod na vostok zhertvy vtoroi mirovoi

la banca espanola analisis y evolucion empresa y gestion

#### la chabe et le droit

kudeiar istoricheskaia khronika v trekh knigakh istorikoliteraturnyi arkhiv

## la belgique sous la botte

kusana coins and history

kulturnye sloi vo frazeologizmakh i v diskursivnykh praktikakh

krik krak

#### kristin lavransdatter i the bridal wreath

la calavera

#### kriegbchiff wasa skulpturen

## **Hyfrecator Plus Service Manual:**

## the first world war an agrarian interpretation supersummary - Oct 20 2022

get ready to explore the first world war an agrarian interpretation and its meaning our full analysis and study guide provides an even deeper dive with character analysis and quotes explained to help you discover the complexity and beauty of this book the first world war an agrarian interpretation by avner offer - Sep 30 2023

178 agricultural history 179 book reviews than 600 000 higher during the war than was to be expected the female death rate in germany was 26 percent higher than in britain and the former suffered a one third increase in civilian mortality one half of a million tons of german body weight was lost between 1914 and 1918

the first world war an agrarian interpretation worldcat org - Dec 22 2022

in this interpretation of the first world war dr offer weaves together the economic and social history of the english speaking world the pacific basin and germany with the development of food production and consumption

the first world war an agrarian interpretation cla pdf - Apr 13 2022

first world war an agrarian interpretation cla and numerous books collections from fictions to scientific research in any way among them is this the first world war an agrarian interpretation cla that can be your partner agricultural wage stabilization in world war ii arthur julius holmaas 1950 boston university bulletin boston

#### the first world war an agrarian interpretation worldcat org - Mar 25 2023

summary in this interpretation of the first world war dr offer weaves together the economic and social history of the english speaking world the pacific basin and germany with the development of food production and consumption the first world war an agrarian interpretation cla 2022 - Aug 18 2022

2 the first world war an agrarian interpretation cla 2020 06 01 the first world war an agrarian interpretation cla downloaded from seminary fbny org by guest brenden essence britain and the origins of the first world war harvard university press a definitive transnational account of the military political and cultural history of the first

the first world war an agrarian interpretation cla download - May 15 2022

it is your extremely own era to statute reviewing habit along with guides you could enjoy now is the first world war an agrarian interpretation cla below guerres mondiales et conflits contemporains 1992

the first world war an agrarian interpretation searchworks - Sep 18 2022

select search scope currently catalog all catalog articles website more in one search catalog books media more in the stanford libraries collections articles journal articles other e resources

the first world war an agrarian interpretation oxford academic - Nov 20 2022

jul 1 1990 j a perkins the first world war an agrarian interpretation german history volume 8 issue 3 july 1990 pages 367

368 doi org 10 1093 gh 8 3 367

## the first world war an agrarian interpretation cla pdf - Feb 09 2022

the first world war an agrarian interpretation cla and numerous books collections from fictions to scientific research in any way in the course of them is this the first world war an agrarian interpretation cla that can be your partner dynamic of destruction culture and mass killing in the first world war professor alan kramer

the first world war an agrarian interpretation ora oxford - Jun 27 2023

presents an agrarian interpretation of the first world war focusing on germany and the english speaking world illustrates how economic and social conditions predisposed britain to enter the war part 1 discusses the defeat of germany part 2 describes the growth of the international agrarian

the first world war an agrarian interpretation amazon com - Feb 21 2023

sep 12 1991 in this book offer presents a new interpretation of world war i weaving together the economic and social history of the english speaking world the pacific basin and germany with the development of food production and consumption

the first world war an agrarian interpretation cla uniport edu - Mar 13 2022

the first world war an agrarian interpretation cla 1 8 downloaded from uniport edu ng on september 10 2023 by guest the first world war an agrarian interpretation cla recognizing the quirk ways to acquire this books the first world war an agrarian interpretation cla is additionally useful you have remained in right

the first world war an agrarian interpretation google books - Jan 23 2023

avner offer clarendon press 1989 agriculture 449 pages in this book offer presents a new interpretation of world war i weaving together the economic and social history of the english speaking world the pacific basin and germany with the first world war an agrarian interpretation archive org - Aug 30 2023

the first world war an agrarian interpretation by offer avner author publication date 1989 topics world war 1914 1918 world war 1914 1918

the first world war an agrarian interpretation fulcrum - Jul 17 2022

the first world war an agrarian interpretation the first world war an agrarian interpretation awner offer introduction economic and social interpretation of the first world war page 1 part one how was germany defeated page 21 1 society under siege germany 1914 1918 page 23 2 food reform and food science page 39 3 did

the first world war an agrarian interpretation - Jul 29 2023

mar 3 2009 the first world war an agrarian interpretation by avner offer oxford clarendon press 1990 pp xix 440 48 00 the journal of economic history cambridge core

the first world war an agrarian interpretation ideas repec - May 27 2023

abstract this is a completely new interpretation of the first world war dr offer weaves together the economic and social history of the english speaking world the pacific basin and germany with the development of food production and consumption

## the first world war an agrarian interpretation clarendon paperbacks - Apr 25 2023

buy the first world war an agrarian interpretation clarendon paperbacks illustrated by offer avner isbn 9780198202790 from amazon s book store everyday low prices and free delivery on eligible orders

## the first world war an agrarian interpretation cla pdf - Jun 15 2022

aug 9 2023 the first world war an agrarian interpretation cla collections that we have this is why you remain in the best website to look the incredible book to have the british home front and the first world war hew strachan 2023 03 31 the fullest account yet of the british home front in the first world war and how war changed britain forever

2014 bece past questions and answers pdf free - Aug 16 2023

web apr 5 2020 click the links below to view download the 2014 bece past questions and answers pdf files of your choice for free akuapem twi bece 2014 q only pdf

2014 bece integrated science past questions and answers - May 13 2023

web dec 23 2021 download all bece integrated science past questions answers from 1990 up to 2021 here 2014 bece integrated science paper 1 2014 bece integrated

bece 2014 english language past question and answers - Feb 27 2022

web may 13 2023 the 2023 basic education certificate examination integrated science paper will be written on tuesday 8th august 2023 it will be the third paper after english

welcome bece wordpub org - Nov 26 2021

web bece integrated science past questions solutions fjune 2014 integrated science 1 objective test 45 minutes 1 which of the following types of teeth is

## bece basic science past questions and answers teststreams - Apr 12 2023

web this study pack bece past questions and answers pdf is for all students writing the entrance exams into senior classes basic science past questions 2023 acadlly - Nov 07 2022

web sep 1 2023 bece science questions some science mock questions that will help you pass your integrated science bece exams cover different areas including systems

bece past questions with answers mickinet systems - Feb 10 2023

web may 30 2022 check this out wassce past questions science science 1990 2013 science 2010 science 2011 science 2012

science 2013 science 2014 science

## bece integrated science past questions pdf ductility - Oct 26 2021

bece question and answer basic science 2014 pdf uniport edu - May 01 2022

web useful you have remained in right site to start getting this info acquire the bece question and answer basic science 2014 associate that we meet the expense of here and

## bece integrated science 2014 ghana5 com - Mar 11 2023

web 1 1 4 hours part 1 part 2 part i 40 marks ghana5 com becejhs answer question all of question 1 the diagrams below represent the stages in the life cycle of a

## bece questions answers and notes that you are likely to - Oct 06 2022

web apr 27 2021 how to download bece past questions and answers the cost of the recent bece past question and answer is 2 000 only thus to get the material

## bece 2014 past questions and answers answers for 2023 exams - Jul 03 2022

web the basic education certificate examination bece is the main examination to qualify students for admission into secondary and vocational schools in ghana 1 and nigeria

bece basic science past questions and answers - Dec 08 2022

web you have 20 minutes to answer all the questions you can use the next button to move to the next question use the prev button to move to the previous question the clear

bece past questions infoguidenigeria com - Dec 28 2021

web bece integrated science past questions and answers 2014 junior high school years 1 2 3 compiled by june 2014 integrated science 1 objective test

bece question and answer basic science 2014 peter darvas - Mar 31 2022

web if you are looking for the english language questions for 2014 then you are on the right page on this page we have given out the bece 2014 english language past question

## bece past questions and answers pdf free download study - $\mbox{Sep}\ 05\ 2022$

web sample of integrated science 1 2 virtual mock examination for 2021 bece candidates many students are looking for these past questions to help them easily have a feel of

## 2023 bece integrated science questions and answers - Jan 29 2022

web apr 29 2023 to purchase this past question please chat with the whatsapp number 08162517909 to check availability before you proceed to make payment after payment

## basic education certificate examination wikipedia - Jun 02 2022

web apr 20 2023 bece question and answer basic science 2014 right here we have countless books bece question and answer basic science 2014 and collections to

bece past questions answers 2014 science - Sep 17 2023

web june 2014 integrated science 1 objective test 45 minutes 1 which of the following types of teeth is used by mammals to tear food material a canines b

## download bece science past questions with marking scheme - Aug 04 2022

web bece past questions answers 2014 science june 2014 integrated science 1 objective test 45 minutes 1 which of the following types of teeth is used by

bece 2014 science past questions paper 2 essay - Jan 09 2023

web bece basic science past questions and answers by acadlly exams past questions junior classes

## bece past questions answers in a4 pdf word print edit - Jun 14 2023

web bece 2017 word files bece 2014 word files bece 2010 word files scroll downwards to download and buy more private and school bece past questions pdf files or click

2014 science page 2 of 2 bece past questions and answers - Jul 15 2023

web essay  $1\frac{1}{4}$  hours part i 40 marks answer all of question 1 1 a the diagrams below represent the stages in the life cycle of a mosquito study the diagrams carefully

that s not english britishisms americanisms and what our english - Apr 11 2023

web that s not english britishisms americanisms and what our english says about us paperback 3 nov 2016 in this brilliant transatlantic survival guide erin moore examines the key differences between the british and the americans through their language you ll discover why americans give and take so many bloody compliments and

that s not english on apple books - Nov 06 2022

web in that s not english the seemingly superficial differences between british and american english open the door to a deeper exploration of a historic and fascinating cultural divide in each of the thirty chapters erin moore explains a different word we use that says more about us than we think

### that s not english britishisms americanisms and what our english - Jun 13 2023

web that s not english britishisms americanisms and what our english says about us moore erin writer on english language author free download borrow and streaming internet archive

that s not english britishisms americanisms and what our english - Jul 02 2022

web jul 1 2015 in that s not english the seemingly superficial differences between british and american english open the

door to a deeper exploration of a historic and fascinating cultural divide in each of the thirty chapters erin moore explains a different word we use that says more about us than we think

## britishisms 101 an american s guide to decoding british english vogue - Feb 26 2022

web feb 17 2016 an american s guide to decoding british english and understanding britishisms vogue english u k to english u s a handy translation guide on speaking your native language in a foreign

erin moore clarifies britishisms and americanisms in that s not - May 12 2023

web erin moore 98 clarifies britishisms and americanisms in that s not english even as a young literature student at harvard erin moore 98 already yearned to be on the other side of the atlantic where the authors she studied lived breathed and wrote in junior year long before the college institutionalized study abroad programs she

## that s not english britishisms americanisms and what our english - Sep 04 2022

web summary an american expatriate living in london explores the historical and cultural differences between american and british versions of english covering snacking habits overall collective personalities dating and sex drinking and raising kids

## that s not english britishisms americanisms and what our english - $\text{Dec}\ 07\ 2022$

web that s not english britishisms americanisms and what our english says about us erin moore gotham 25 99 240p isbn 978 1 592 40885 6 as an american expatriate and book editor who

that s not english britishisms americanisms and what our english - Dec 27 2021

web topics english language variation english language spoken english united states english language spoken english great britain english language usage americanisms english language spoken english manners and customs great britain social life and customs united states social life and customs great britain

## that s not english britishisms americanisms and what our english - Aug 15 2023

web mar 24 2015 in that s not english the seemingly superficial differences between british and american english open the door to a deeper exploration of a historic and fascinating cultural divide in each of the thirty chapters erin moore explains a different word we use that says more about us than we think

that s not english britishisms americanisms and w courtney - Mar 30 2022

web you could purchase lead that s not english britishisms americanisms and w or acquire it as soon as feasible you could speedily download this that s not english britishisms americanisms and w after getting deal so following you require the ebook swiftly you can straight acquire it its thus enormously simple and suitably fats isnt it

## that s not english britishisms americanisms and what our english - Feb 09 2023

web buy that s not english britishisms americanisms and what our english says about us by moore erin isbn 9780224101523 from amazon s book store everyday low prices and free delivery on eligible orders

that s not english britishisms americanisms and what - Mar 10 2023

web mar 24 2015 in that s not english the seemingly superficial variations between british and american vocabulary open the door to a deeper exploration of historical and cultural differences each chapter begins with a single word and takes the reader on a wide ranging expedition drawing on diverse and unexpected sources

that s not english britishisms americanisms and what our english - Jan 08 2023

web reviews aren t verified but google checks for and removes fake content when it s identified in this brilliant transatlantic survival guide erin moore examines the key differences between the british and the americans through their language

that s not english britishisms americanisms and what our english -  $Jul\ 14\ 2023$ 

web mar 24 2015 in that s not english the seemingly superficial differences between british and american english open the door to a deeper exploration of a historic and fascinating cultural divide in each of

## americanisms in british english cambridge english - Jun 01 2022

web jul 3 2017 matt norton explores some of the differences between british and american english and whether americanisms have become pervasive in british english the influence of american english ame on british english bre has been discussed at length in the media and online and some have even said that it is lowering the standard of bre that s not english britishisms americanisms and what our english - Aug 03 2022

web richard lederer author of anguished english the ocean that divides england and america is awash with linguistic wreckage and cultural tumult but erin moore s study of these infested waters is serene assured and hugely entertaining they should hand her book out at border control

38 americanisms the british can t bloody stand literary hub - Apr 30 2022

web aug 12 2019 the reliable talented and influential british journalist matthew engel author of the tremendous that s the way it crumbles the american conquest of the english language is the acknowledged authority on americanisms that have successfully invaded british english

that s not english britishisms americanisms and what our english - Oct 05 2022

web mar 24 2015 in that s not english the seemingly superficial differences between british and american english open the door to a deeper exploration of a historic and fascinating cultural divide in each of the thirty chapters erin moore explains a different word we use that says more about us than we think

#### that s not english britishisms americanisms and w oleg - Jan 28 2022

web this that s not english britishisms americanisms and w as one of the most enthusiastic sellers here will utterly be in the course of the best options to review the token yank a j truman 2017 10 31