



www.Source1Parts.com

HVAC SERVICE PARTS

PS9 SERIES - UPFLOW 1-STAGE NATURAL GAS FURNACE - 90%

Supersedes: 035-20437-001 Rev. C (1004)

035-20437-001 Rev. D (1204)

1 of 8

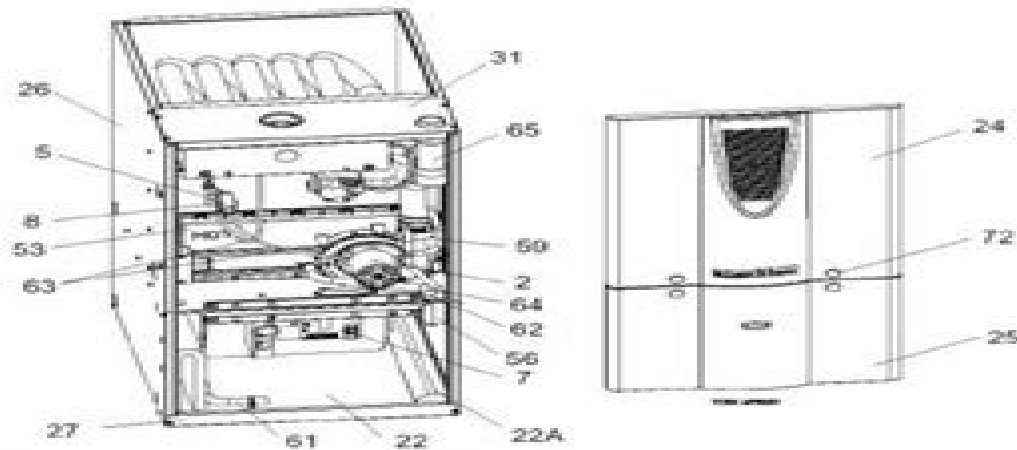


Figure 1: UPFLOW 1-STAGE NATURAL GAS FURNACES (90%)

FIG	ITEM	DESCRIPTION	PS9A12N040UP11A (2 BURNER)	PS9B12N060UP11A (3 BURNER)	PS9B12N080UP11A (4 BURNER)	PS9C16N080UP11A (4 BURNER)
MOTOR						
2	1	MOTOR, DIRECT DRIVE BLOWER	024-32054-000	024-32054-000	024-32054-000	024-32055-000
1,2	2	MOTOR, INDUCER ASSY	024-34558-000	024-34558-000	024-34558-000	024-34558-000
ELECTRICAL						
2	3	CAPACITOR (7.5MFD/370V) CAPACITOR (10 MFD/370V)	024-20045-000	024-20045-000	024-20045-000	—
2	4	SWITCH, LIMIT (INDUCER)	025-38737-000	025-38737-000	025-38737-000	024-20046-000
1,2	5	CONTROL, HIGH LIMIT	025-29041-005	025-29041-004	025-29041-012	025-38737-000
3	6	CONTROL, FLAME ROLL OUT	025-27792-001	025-27792-001	025-27792-001	025-29041-011
1,2	7	CONTROL, FURNACE	031-01973-000	031-01973-000	031-01973-000	025-27792-001
—	7A	FUSE	025-32746-026	025-32746-026	025-32746-026	031-01973-000
1,2	8	SWITCH, AIR PRESSURE	024-34620-000	024-27639-001	024-27638-001	025-32746-026
3	9	IGNITER	025-32625-000	025-32625-000	025-32625-000	024-27638-001
3	10	SENSOR, FLAME	025-37499-000	025-37499-000	025-37499-000	025-32625-000
2	11	SWITCH, DOOR	024-27640-000	024-27640-000	024-27640-000	025-37499-000
2	12	TRANSFORMER	025-30889-000	025-30889-000	025-30889-000	024-27640-000
3	13	VALVE, GAS	025-37426-000	025-37426-000	025-37426-000	025-30889-000
AIR MOVING						
2	14	HOUSING, BLOWER	373-19812-751	373-19812-751	373-19812-751	025-37426-000
2	15	WHEEL, BLOWER	026-19654-009	026-19654-009	026-19654-009	024-27638-001

NOTE: *Not Shown

New replacement parts shown in **bold** face type at the first printing of parts list dated 12/04.

Major components and suggested stocking items are shown with shaded item number.

"—" Appear from row indicates a change in that row.

— Not applicable to specified model.

Sun Rays Furnace Manual

**Eugene Franz Roeber, Howard Coon
Parmelee**



Sun Rays Furnace Manual:

Architectural Graphic Standards American Institute of Architects, Keith E. Hedges, 2017-04-18 ARCHITECTURAL GRAPHIC STANDARDS THE LANDMARK UPDATE OF THE MOST RECOGNIZED STUDENT RESOURCE IN ARCHITECTURE The Student Edition of the iconic Architectural Graphic Standards has been a rite of passage for architecture building and engineering students for more than eighty years Thoughtfully distilled from the Twelfth Edition of Architectural Graphic Standards and reorganized to meet the specific needs of today's students this fully updated Student Edition shows you how to take a design idea through the entire planning and documentation process This potent resource stays with you through your academic experience and into your first years as a professional with thousands of useful illustrations and hundreds of architectural elements conveniently placed at your fingertips Presented in a format closely resembling an architect's actual workflow this Twelfth Edition student handbook features Completely new material on resiliency in buildings A versatile treatment written for the design studio setting and aligned with the most current curricular trends including new and updated coverage on topics related to sustainability digital fabrication and building information modeling BIM A proven pedagogy that saves students time and ensures young professionals avoid the most common pitfalls Develop a state of the art mastery of design best practices with Architectural Graphic Standards Twelfth Edition Student Edition

Architectural Graphic Standards The American Institute of Architects, 2007-03-30 Since 1932 the ten editions of Architectural Graphic Standards have been referred to as the architect's bible From site excavation to structures to roofs this book is the first place to look when an architect is confronted with a question about building design With more than 8 000 architectural illustrations including both reference drawings and constructible architectural details this book provides an easily accessible graphic reference for highly visual professionals To celebrate seventy five years as the cornerstone of an industry this commemorative Eleventh Edition is the most thorough and significant revision of Architectural Graphic Standards in a generation Substantially revised to be even more relevant to today's design professionals it features An entirely new innovative look and design created by Bruce Mau Design that includes a modern page layout bold second color and new typeface Better organized a completely new organization structure applies the UniFormat classification system which organizes content by function rather than product or material Expanded and updated coverage of inclusive universal and accessible design strategies Environmentally sensitive and sustainable design is presented and woven throughout including green materials LEEDS standards and recyclability A bold contemporary new package as impressive closed as it is open the Eleventh Edition features a beveled metal plate set in a sleek black cloth cover Ribbon Markers included as a convenient and helpful way to mark favorite and well used spots in the book All New material Thoroughly reviewed and edited by hundreds of building science experts and experienced architects all new details and content including new structural technologies building systems and materials emphasis on sustainable construction green materials LEED standards and recyclability

expanded and updated coverage on inclusive universal and accessible design strategies computing technologies including Building Information Modeling BIM and CAD CAM new information on regional and international variations accessibility requirements keyed throughout the text new standards for conducting disseminating and applying architectural research New and improved details With some 8 500 architectural illustrations including both reference drawings and constructible architectural details Architectural Graphic Standards continues to be the industry s leading easily accessible graphic reference for highly visual professionals

Master Service Manuals K. M. Newcum,1949 **Solar Energy Index** George Machovec,2013-10-22 Solar Energy Index is an index of resources dealing with solar energy including archival materials from the International Solar Energy Society collection references to articles in major solar journals patents and pamphlets National Technical Information Service reports unbound conference proceedings and other assorted reports Both theoretical and how to do it publications are well represented This book places particular emphasis on terrestrial solar thermal and photovoltaic applications of solar energy Subjects are classified according to physics terrestrial wind collectors space heating and cooling economics materials distillation thermal electric power systems photoelectricity solar furnaces cooking biological applications water heaters photochemistry energy storage mechanical devices evaporation sea power space flight applications and industrial applications Topics covered range from wind energy and bioconversion to ocean thermal energy conversion heliohydroelectric power plants solar cells turbine generation systems thermionic converters batteries and fuel cells and pumps and engines This monograph will be of interest to government officials and policymakers concerned with solar energy

Solar Energy Update ,1977 **Specifications and Drawings of Patents Issued from the United States Patent Office** United States. Patent Office,1895 *The Electrical Review* ,1917 Domestic Engineering and the Journal of Mechanical Contracting ,1956 **Home Power** ,1997 **English Mechanic and Mirror of Science** ,1877 *Golden Manual* Henry Davenport Northrop,1891 Metallurgical & Chemical Engineering Eugene Franz Roeber,Howard Coon Parmelee,1910 *The Pacific Reporter* ,1906 Readers' Guide to Periodical Literature ,1925 English Mechanic and Mirror of Science and Art ,1882 **English Mechanic and World of Science** ,1882 *Forging, Stamping, Heat Treating* ,1918 Manual of Instructions on Proper Firing Methods in the Interest of Fuel Combustion and Conservation, Air Pollution, Smoke Elimination Smoke Prevention Association of America,1943 Annotated Cases ,1908 *The American and English Annotated Cases* ,1908

Right here, we have countless books **Sun Rays Furnace Manual** and collections to check out. We additionally have the funds for variant types and furthermore type of the books to browse. The gratifying book, fiction, history, novel, scientific research, as without difficulty as various further sorts of books are readily friendly here.

As this Sun Rays Furnace Manual, it ends up being one of the favored ebook Sun Rays Furnace Manual collections that we have. This is why you remain in the best website to look the amazing books to have.

<https://apps.mitogames.com.br/results/publication/fetch.php/Uch%20Range%20Guard%20Manual.pdf>

Table of Contents Sun Rays Furnace Manual

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

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

Sun Rays Furnace Manual Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Sun Rays Furnace Manual free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Sun Rays Furnace Manual free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Sun Rays Furnace Manual free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and

verify the authenticity of the source before downloading Sun Rays Furnace Manual. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Sun Rays Furnace Manual any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Sun Rays Furnace Manual 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. Sun Rays Furnace Manual is one of the best book in our library for free trial. We provide copy of Sun Rays Furnace Manual in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Sun Rays Furnace Manual. Where to download Sun Rays Furnace Manual online for free? Are you looking for Sun Rays Furnace Manual PDF? This is definitely going to save you time and cash in something you should think about.

Find Sun Rays Furnace Manual :

[uch range guard manual](#)

[twee seconden geluk en andere voetbalverhalen](#)

[tutos make up pairesseuses collectif](#)

[tut distance leaning 2014 courses](#)

[twilight children three voices no one heard until a therapist listened](#)

turtles in my pants a silly animal adventure

u61hb500 used 1986 honda atc200x service manual

tutor in a books geometry

uit een familiealbum

turner super sidekick manual

twin disc 509 1 manual

twelve years a slave illustrated two pence books

two little savages dover childrens classics

twin disc mg516 manual

tv servicing with picture tube patterns

Sun Rays Furnace Manual :

renault laguna 3 workshop manual download - Jan 21 2022

renault laguna free workshop and repair manuals - Aug 08 2023

web renault laguna workshop repair and owners manuals for all years and models free pdf download for thousands of cars and trucks

renault workshop manuals pdf free download carmanualshub - Jul 27 2022

web download free renault workshop manuals factory service manuals and repair manuals in pdf format for a range of renault models renault laguna laguna i laguna 1

renault laguna iii service manual 2007 2014 en - May 05 2023

web this renault laguna workshop service repair manual comes pre installed for you inside a virtual operating system for ease of use follow the simple set up instructions

renault laguna 3 workshop manual download - May 25 2022

web renault renault workshop repair manuals owners manuals and other free downloads please select your renault vehicle below

renault laguna iii pdf workshop service repair manual 2007 - Jun 06 2023

web this renault laguna iii pdf workshop service repair manual 2007 2015 offers both the professional mechanic and the home enthusiast an encyclopaedic insight into your

renault laguna iii manual cover manuals - Jun 25 2022

web our renault automotive repair manuals are split into five broad categories renault workshop manuals renault owners manuals renault wiring diagrams renault
[laguna iii repair manual zip 77 mb repair manuals renault club](#) - Nov 18 2021

renault laguna driver s handbook manual pdf - Sep 28 2022

web sep 29 2023 the renault laguna iii manual is a comprehensive guide that provides detailed information on the renault laguna iii model manufactured between 2007

renault laguna iii mk3 operation owners maintenance manual - Jan 01 2023

web view and download renault laguna driver s handbook manual online laguna automobile pdf manual download

renault laguna workshop repair manual download - Feb 02 2023

web feb 5 2017 english french and spanish service manual in pdf format to vehicles renault laguna iii servicemanuals info

renault workshop manuals free factory service manuals - Apr 23 2022

web jun 12 2017 the present user manual and maintenance contains information that will allow you to to see the car right to exploit it and maximize its capabilities to maintain its

renault laguna iii automobile manual manualslib - Oct 10 2023

web view and download renault laguna iii manual online laguna iii automobile pdf manual download

renault laguna handbook pdf download - Mar 03 2023

web this renault laguna iii mk3 operation owners maintenance manual ca008978 provides detailed instructions illustrations and diagrams for the do it yourself mechanic it

renault laguna quick manual pdf download - Nov 30 2022

web renault laguna owners manual covering weekly checks renault laguna workshop manual covering lubricants fluids and tyre pressures renault laguna service pdf s

[renault laguna repair service manuals 8 pdf s](#) - Aug 28 2022

web renault laguna 3 workshop manual download autorepguide com aracın renault laguna 3 manuel onarım bakım ve işletme olarak sağlayan mevcut kullanım ve

renault laguna workshop service repair manual 1993 2015 - Apr 04 2023

web view and download renault laguna handbook online laguna automobile pdf manual download

renault laguna iii manuals manualslib - Jul 07 2023

web we have 1 renault laguna iii manual available for free pdf download manual renault laguna iii manual 3699 pages brand renault category automobile size 100 28 mb

[renault workshop repair owners manuals 100 free](#) - Mar 23 2022

web 2001 renault laguna ii turbocharger rebuild and repair guide brian smothers 2014 11 01 this shop manual covers the proper disassembly inspection rework

laguna renault group - Sep 09 2023

web handling the renault card that you do not lock or unlock the doors by inad vertently pressing the buttons renault cards general information 1 2 1 unlocking the doors

renault workshop and owners manuals free car repair manuals - Feb 19 2022

web renault laguna iii x91 repair manuals english 77 mb laguna service workshop manuál kompletní dialogys mr415 mr416 11 pdf files menu register spanish

renault laguna iii service manual - Dec 20 2021

renault laguna iii 2007 2015 service manual youtube - Oct 30 2022

web dec 4 2018 renault workshop repair manuals pdf for clio duster espace kangoo laguna logan master megane safrane scenic symbol trafic twingo and other s

backwards and in heels the past present and future of - Apr 22 2022

web backwards and in heels the past present and future of women working in film malone alicia littrell katherine on amazon com au free shipping on eligible

[backwards in high heels the impossible art of being female](#) - Jan 20 2022

web mar 23 2010 backwards in high heels the impossible art of being female kindersley tania vine sarah 9780762438815 amazon com books books politics social

backwards in heels the past present and future of women - Aug 07 2023

web backwards and in heels combines research and exclusive interviews with influential women and men working in hollywood today such as geena davis j j abrams ava

backwards and in heels the past present and - Nov 29 2022

web apr 1 2020 backwards and in heels the past present and future of women working in film alicia malone coral gables mango publishing 2017 242

[backwards and in heels the past present and future](#) - Jul 06 2023

web buy backwards and in heels the past present and future of women working in film incredible women who broke barriers in filmmaking by malone alicia isbn

backwards and in heels the past present and future of - Feb 01 2023

web may 15 2018 backwards and in heels the past present and future of women working in film incredible women who broke barriers in filmmaking malone alicia

backwards in high heels a woman s guide to succeeding in - Feb 18 2022

web jan 1 2009 backwards in high heels a woman s guide to succeeding in business stewart sheila on amazon com free shipping on qualifying offers backwards in

backwards and in heels the past present and future - Oct 09 2023

web aug 15 2017 backwards and in heels the past present and future of women working in film incredible women who broke barriers in filmmaking malone alicia 9781633536173 amazon com books books arts photography performing arts

backwards and in heels the past present and future of - Jun 24 2022

web backwards and in heels the past present and future of women working in film women in film film studies film theory and readers of the female gaze

backwards in heels the past present and future of women - Sep 27 2022

web backwards in heels the past present and future of women working in film malone alicia author free download borrow and streaming internet archive by malone

backwards in heels the past present and future of women - May 24 2022

web sep 1 2021 review of backwards in heels the past present and future of women working in film alicia malone 2017 coral gables fl mango publishing group 242

backwards and in heels the past present and future of - Oct 29 2022

web aug 15 2017 backwards in heels combines research and exclusive interviews with influential women and men working in hollywood today including geena davis j j

backwards in heels the past present and future of women - Mar 22 2022

web backwards in heels the past present and future of women working in film alicia malone amazon com tr kitap

backwards and in heels the past present and future of - Aug 27 2022

web backwards and in heels the past present and future of women working in film incredible women who broke barriers in filmmaking malone alicia mcgowan rose

backwards and in heels the past present and future - Mar 02 2023

web aug 15 2017 backwards and in heels the past present and future of women working in film incredible women who broke barriers in filmmaking kindle edition by

backwards and in heels the past present and future - Dec 31 2022

web 9 99 ebook free sample switch to the audiobook about this ebook arrow forward backwards and in heels women in film

and their struggle against bias after all

backwards and in heels the past present and future of - Jun 05 2023

web aug 15 2017 backwards and in heels combines research and exclusive interviews with influential women and men working in hollywood today such as geena davis j j

backwards and in heels the past present and future of - Sep 08 2023

web backwards and in heels the past present and future of women working in film alicia malone 4 02 723 ratings 109 reviews number 1 new bestseller after all ginger

backwards in heels the past present and future of women - Apr 03 2023

web backwards in heels the past present and future of women working in film malone alicia littrell katherine amazon com tr kitap

backwards and in heels the past present and future of - Jul 26 2022

web feb 20 2018 amazon com backwards and in heels the past present and future of women working in film 9781538534755 alicia malone books books politics

backwards in heels the past present and future of - May 04 2023

web sep 1 2021 backwards in heels the past present and future of women working in film alicia malone 2017 september 2021 journal of screenwriting 12 3 395 398

the most fishing knots on the internet animated and step by - Oct 23 2023

web fishing knots with over 60 fishing knots netknots has the most extensive fishing knot library on the internet the knots are both animated and illustrated as well as described in detail to help you tie the right knot correctly

how to tie fishing knots for beginners - May 18 2023

web beginner fishing knots here is a selection of great fishing knots to get you started from the arbor knot to tie your new line onto the reel to a selection of trusty knots to tie on your hook or lure these are all the knots you need to get started fishing have fun arbor knot arbor knot tie your fishing line to the spool or reel clinch knot

10 fishing knots for hooks lure and swivels youtube - Jul 20 2023

web sep 16 2016 these are 10 fishing knot for hooks these are also fishing knots for lure swivels and more this video explains how to tie a fishing knot how to tie a palomar knot how to tie a knotless knot

fishing knots learn how to tie knots - Aug 21 2023

web knots alberto knot albright special arbor knot australian plait baja knot bimini twist blood knot bobber stopper knot brekley braid fishing knot bristol knot centauri knot davy knot double bowline knot double uni knot drop shot rig dropper loop easy snell knot egg loop knot eye crosser knot fg knot fish n fool knot harvey dry fly

fishing knots animated knots by grog - Sep 22 2023

web fishing knots choose a knot below or scroll down for more information join different types or thickness of fishing line used to attach the fishing line to the arbor or spool center strong loop for double line leader and loop to loop join strong double line leader and for loop to loop connections

list of different types of fishing knots how to tie them - Apr 17 2023

web jig fishing knots palomar knot surf fishing knots for shock leaders albright knot fg knot drop shot fishing knots drop shot rig palomar knot soft bait fishing knots egg loop knot rapala knot non slip kreh loop knot deep sea offshore fishing knots bimini twist palomar knot dropper loop haywire twist beach fishing knots uni

over 65 fishing knots listed alphabetically fishing knots by netknots - Jun 19 2023

web fishing knots all fishing knots line to line knot loop knots terminal connections beginner fishing knots fly fishing knots miscellaneous saltwater fishing knots tenkara knots rope knots rope knots list bends binding knots hitches loop knots arborist knots boating knots climbing knots rescue survival knots