

# 1985 Honda Cr80 Service Manual

**PT Brinkman** 

#### 1985 Honda Cr80 Service Manual:

MX & Off-Road Performance Handbook -3rd Edition Eric Gorr, Whitaker's Books in Print .1998 Honda **Books in Print Supplement** ,2002 Honda Service Manual 85-92 CR80R. **Service Manual 85-89 CR80R** ,1988 Yamaha PW50 Y-Zinger, PW80 Y-Zinger and BW80 Big Wheel 81-02, 2000-05-24 PW50 1981 1983 1985 1987 1990 .1991 2002 PW80 1983 1985 1991 2002 BW80 1986 1988 1990 Honda CR80/125R Owners Workshop Manual Alan Ahlstrand, John Harold Haynes, 1997-01-01 This is one in a series of manuals for car or motorcycle owners Each book provides information on routi ne maintenance and servicing with tasks described and photo graphed in a step by step sequence so that even a novice can do the work Honda Service Manual[published 1985 Through 1991]. ,1985 Honda Service Manual, 85-87, 1986 Honda Service Manual, 85-87 Honda Giken Kōgyō Kabushiki Kaisha, 1986 Honda Service Manual 85-88 CR500R ,1987 Honda CR 80 Shop Manual ,1987 Honda Service Manual, 85-87 CR500R .1986 Honda Service Manual 85-88 CH80 Elite ,1987 Honda Service Manual 85-90 CR500R .1989 Honda Service Manual, 85-86 XR600R. 1986 Honda Service Manual 85-86 CH80 Elite ,1986 Honda CR Motocross Bikes Owners Workshop Manual Alan Ahlstrand, John Harold Haynes, 2001 Whether the reader has simple maintenance or a complete engine rebuild in mind he or she can rest assured that there s a Haynes manual for just above every popular domestic and import car truck and motorcycle By conducting complete tear downs and rebuilds the staff at Haynes Publishing has discovered all the problems owners will find when repairing or rebuilding their vehicles By documenting each process with hundreds of illustrations and step by step instructions that show the exact order of assembly Haynes manuals make every step easy to follow Honda Service Manual, 85-87 XR600R., 1986 Honda Service Manual, 85-87 CR80R. ,1986

If you ally compulsion such a referred **1985 Honda Cr80 Service Manual** ebook that will offer you worth, acquire the utterly best seller from us currently from several preferred authors. If you desire to droll books, lots of novels, tale, jokes, and more fictions collections are afterward launched, from best seller to one of the most current released.

You may not be perplexed to enjoy all books collections 1985 Honda Cr80 Service Manual that we will agreed offer. It is not as regards the costs. Its just about what you compulsion currently. This 1985 Honda Cr80 Service Manual, as one of the most lively sellers here will utterly be in the middle of the best options to review.

https://recruitmentslovakia.sk/files/virtual-library/HomePages/how to become a scratch golfer.pdf

#### Table of Contents 1985 Honda Cr80 Service Manual

- 1. Understanding the eBook 1985 Honda Cr80 Service Manual
  - The Rise of Digital Reading 1985 Honda Cr80 Service Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying 1985 Honda Cr80 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 1985 Honda Cr80 Service Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from 1985 Honda Cr80 Service Manual
  - Personalized Recommendations
  - 1985 Honda Cr80 Service Manual User Reviews and Ratings
  - 1985 Honda Cr80 Service Manual and Bestseller Lists
- 5. Accessing 1985 Honda Cr80 Service Manual Free and Paid eBooks

- 1985 Honda Cr80 Service Manual Public Domain eBooks
- 1985 Honda Cr80 Service Manual eBook Subscription Services
- 1985 Honda Cr80 Service Manual Budget-Friendly Options
- 6. Navigating 1985 Honda Cr80 Service Manual eBook Formats
  - o ePub, PDF, MOBI, and More
  - 1985 Honda Cr80 Service Manual Compatibility with Devices
  - 1985 Honda Cr80 Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 1985 Honda Cr80 Service Manual
  - Highlighting and Note-Taking 1985 Honda Cr80 Service Manual
  - Interactive Elements 1985 Honda Cr80 Service Manual
- 8. Staying Engaged with 1985 Honda Cr80 Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 1985 Honda Cr80 Service Manual
- 9. Balancing eBooks and Physical Books 1985 Honda Cr80 Service Manual
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection 1985 Honda Cr80 Service Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 1985 Honda Cr80 Service Manual
  - Setting Reading Goals 1985 Honda Cr80 Service Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 1985 Honda Cr80 Service Manual
  - Fact-Checking eBook Content of 1985 Honda Cr80 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

#### 1985 Honda Cr80 Service Manual Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In todays fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free 1985 Honda Cr80 Service Manual PDF books and manuals is the internets largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and

empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free 1985 Honda Cr80 Service Manual PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of 1985 Honda Cr80 Service Manual free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

#### FAQs About 1985 Honda Cr80 Service Manual Books

What is a 1985 Honda Cr80 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 1985 Honda Cr80 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 1985 Honda Cr80 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 1985 Honda Cr80 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 1985 Honda **Cr80 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 1985 Honda Cr80 Service Manual:

#### how to become a scratch golfer

navient deferment forms standard & poors stock guide

#### mitsubishi 1200 owners manual 2007

earth science holt mcdougal review answers instructors resource manual for infants children and adolescents fourth edition non profit organizations financial report 355mav060 installation manual

#### larchitecture des lumieres de soufflot a ledoux

how to become a professional engineer used toyota matrix manual transmission envy embezzlers

# $ohio\ schools\ state\ report\ cards$

mini cooper s 2015 manual

## rainwater harvesting guide

#### 1985 Honda Cr80 Service Manual:

#### power quality standards power quality blog - Apr 29 2022

web apr 8 2021 ieee has formed a standards coordinating committee scc 22 that has the job of coordinating standards activities regarding power quality from all the different

#### power quality improvement factors an overview ieee - Apr 10 2023

web dec 17 2014 power quality improvement factors an overview abstract the power quality has started to play an important role in the electronic industry as the power

electric power quality springerlink - Jan 27 2022

web jan 1 2011 electric power quality epq is a term that refers to maintaining the near sinusoidal waveform of power distribution bus voltages and currents at rated magnitude

electric power quality a tutorial introduction ieee journals - Jun 12 2023

web electric power quality is an aspect of power engineering that has been with us since the inception of power systems however topics in power quality have risen to the forefront

ieee pes power quality subcommittee ieee power energy - Dec 06 2022

web treatment of power quality solutions including custom power equipment applications and evaluation of power system compatibility with end use equipment for policies and

## part 3 power quality definition and discussion - Aug 02 2022

web may 31 2021 as a result any discussion of power system reliability must also include power quality the body of literature on reliability indices and calculation techniques

understanding power qualityproblems ieee - Jan 07 2023

web chapter 1 overview of power quality and power quality standards 1 1 1 interest in power quality 2 1 2 power quality voltage quality 4 1 3 overview of power quality

power quality a utility and industry perspective ieee - Mar 29 2022

web may 8 1997 power quality a utility and industry perspective abstract the widespread use of electronics in everything from equipment in the home to the control of huge and

revised iec and ieee standards for pg measurements - Feb 08 2023

web jul 30 2021 new and revised standards for power quality measurements from iec and ieee and their benefit to users of pq monitoring equipment that is compliant with these

research on the improvement of power quality of low ieee - Aug 22 2021

web nov 27 2022 abstract rural low voltage power grid is relatively weak and power quality problems such as low voltage often occur this paper aims to solve the problem of

power quality problems and solutions current understanding - Sep 03 2022

web power quality problems and solutions current understanding abstract this paper summarizes some of the results of an extensive survey and monitoring of quality of

power quality an overview sciencedirect topics - Dec 26 2021

web 1 ground loops 2 improper neutral to ground connections and 3 excessive neutral to ground voltage the ground loop problem is a significant issue when power

#### power quality ieee courses ieee xplore - Mar 09 2023

web course description this course gives an overview of power quality with an emphasis on ieee and iec standards technical areas that are briefly covered include voltage sags

## an unscented particle filter algorithm towards data quality - Jun 19 2021

web sep 8 2023 sustainable development of power and energy system pes can effectively handle the challenges of fuel shortage environmental pollution climate change energy

## ieee 2013 power quality subsites imoney my - Jul 21 2021

web title ieee 2013 power quality author subsites imoney my 2023 08 15 18 43 48 subject ieee 2013 power quality keywords ieee 2013 power quality created date

p1159 3 2019 cor 1 d3 aug 2023 ieee xplore - Jul 01 2022

web ieee std 1159 3 2019 specifies the power quality data interchange format pqdif which is a file format suitable for exchanging power quality related measurement and

power quality on ieee technology navigator - Oct 04 2022

web xplore articles related to power quality development of the edp s power quality monitoring programme inteligent driven power quality monitoring using

## electric power quality types and measurements ieee - May 11 2023

web apr 8 2004 in this paper first types of power quality variations are described and the methods of characterizing each type with measurements are presented then advances

a review of power quality problems standards and solutions - Oct 24 2021

web operators to become familiar with power quality issues key words power quality issues ieee 519 power conditioning devices voltage spikes frequency variation voltage

#### standards ieee pes power quality subcommittee - Jul 13 2023

web active standards ieee std 519 2014 ieee recommended practices and requirements for harmonic control in electrical power systems ieee std 1159 2019 ieee

#### a review on basic concepts and important standards of power - Feb 25 2022

web oct 2 2015 in addition ieee iec semi and uie power quality standards are listed this paper would be helpful for the ug and pg students to study about the basics of power

ieee sa ieee 43 2013 ieee standards association - Sep 22 2021

web ieee 43 2013 ieee recommended practice for testing insulation resistance of electric machinery purchase access via subscription learn more about ieee power and

#### background information on the power quality requirements in - May 31 2022

web information on power quality related topics pertaining to ders unlike the earlier version of the standard thorough requirements are specified in ieee std 1547 2018 to mitigate the

## open source dataset generator for power quality disturbances - Nov 24 2021

web jun 1 2021 1 introduction power quality is a measure of the degree to which voltage and current waveforms comply with established specifications 1 several power quality

an overview of power quality standards and guidelines ieee - Nov 05 2022

web jun 6 2005 to aid in understanding poor power quality from the end user s point of view this paper presents an overview of several standards and guidelines end users such as

## ieee power quality standards ieee conference publication - Aug 14 2023

web may 29 2022 this paper describes the status of important power quality standards and technical reports recently developed by ieee working groups these working groups focus on issues related to harmonics interharmonics flicker voltage imbalance voltage sag

leading in science education research and innovation to - Mar 27 2022

web national university of singapore block s16 level 9 6 science drive 2 singapore 117546 follow us on team mushi comprising students from food science and technology life sciences and data science and economics emerged as the local track winner in the nus foodtech challenge

#### national university of science and technology oman - Dec 04 2022

web national university of science and technology nust is a private university in oman which was established in 2018 by merger of two professional colleges caledonian college of engineering and oman medical college which offered degree programs in medicine and pharmacy around 4300 international students from 33 countries have graduated from welcome to national university of sciences technology nust - Oct 14 2023

web welcome to the national university of sciences technology a prestigious institute of higher learning that has become a benchmark of excellence in south asia as the leader of this esteemed institution i am honored to serve and committed to advancing its mission of providing affordable sdg engaged fourth generation entrepreneurial

## national university of sciences and technology world university - May 09 2023

web pakistan's national university of sciences and technology nust was founded in 1991 it ranks among the world's top

emerging universities under 50 years of age and is one of the youngest within that bracket nust is a research led university which was originally established as a science technology engineering and maths stem college its vision national university of science and technology zimbabwe - Feb 06 2023

web the national university of science and technology nust is the second largest public research university in zimbabwe located in bulawayo it was established in 1991 1 on 8 april 1991 nust opened for the first time with 270 students in three faculties the number of academic staff was 28 the university has established its own radio

#### national university of sciences and technology nust islamabad - Jan 05 2023

web about national university of sciences and technology nust islamabad nust is one of the new generation of pakistani universities with a progressive and innovative outlook the university is envisaged to grow as a modern centre of excellence for research and development in the fields of sciences and technology

## undergraduate programmes college of science ntu singapore - Feb 23 2022

web college of science undergraduate programmes filters refine your results discipline all search keyword we found programmes that you may be interested in to top nanyang technological university 50 nanyang avenue singapore 639798 tel 65 67911744 national institute of education 1 nanyang walk singapore 637616 novena

#### national university of science and technology oman - Jun 29 2022

web the national university of science and technology was founded in 2018 by the ministry of higher education research and innovation in oman it was formed through a merger of the caledonian college of engineering oman medical college and the department of pharmacy the university is located in muscat the capital of oman muscat is a port city our people department of food science and technology - Sep 01 2022

 $web\ nus\ food\ science\ technology\ s14\ level\ 6\ science\ drive\ 2\ singapore\ 117542\ 65\ 6516\ 1656\ food\ nus\ edu\ sg$ 

## master of science management of technology and innovation - Mar 07 2023

web these are the fundamental questions we seek to address in the master of science in management of technology and innovation moti programme the moti programme is designed to provide engineers scientists and business professionals having a background or interest in technology with the cutting edge knowledge frameworks and tools of

# national university of science and technology nust zimbabwe - $\mbox{\sc Apr}\ 27\ 2022$

web learn more about studying at national university of a 320 cbt airbus 320 319 course aircraft general youtube - Apr 30 2023

web aug 22 2020 a320 cbt aircraft general time stamps below 0 00 aircraft overview18 11 principle dimetions23 40 flight deck layout31 13 water and waste35 49

airbus a 320 training manual complete cbt - Feb 14 2022

web apr 3 2011 manuals search features are available by clicking on the extension icon manuals electrolux airbus a 320 training manual complete cbt free motorcycle repair manual pdf vegan manual manual de procedimientos de archivo en colombia autopol iii manual naturally speaking 10 manual ionic breeze guadra manual s1737

#### a320 cbt a320 training airbus a320 aircraft systems course - Oct 05 2023

web the airbus a320ceo cbt computer based training aircraft systems course explores all the major aircraft systems including all the components operations controls and indications involved with each system airbus a320 training manual complete cbt 2022 esource svb - Apr 18 2022

web 2 airbus a320 training manual complete cbt 2023 02 09 psychophysiological signals would enable adaptive systems to respond to cognitive states experienced by an operator and trigger responses designed to support task performance e g by airbus a320 training manual complete cbt pdf - Mar 18 2022

web airbus a320 training manual complete cbt trial based cognitive therapy aug 21 2021 trial based cognitive therapy presents a model that although still inherently beckian organizes known cognitive and behavioral techniques in a step by step fashion in order to make cognitive therapy

#### airbus a320 training manual complete cbt 2023 - Jul 22 2022

web complete guide that covers the knowledge of all the aircraft's systems the airbus flight philosophy and a complete analysis of the operation of the fms flight system where the reader will learn to operate the flight computer airbus a320 series manuals manualslib - Sep 04 2023

web airbus a320 series manuals manuals and user guides for airbus a320 series we have 5 airbus a320 series manuals available for free pdf download manual instructor support instructions manual airbus a320 series manual 630 pages brand airbus category aircrafts size 13 24 mb table of contents general information 171 table of

#### cbt aviation course for airbus a320ceo aircraft evionica - Nov 25 2022

web the airbus a320ceo computer based training cbt is created for future and active pilots e learning covers aircraft systems and explains how the system works in a user friendly way controls and systems functioning are shown through interactive slides with 3d animated graphics

international aircraft maintenance engineers download airbus a320 - Jul 02 2023

web download airbus a320 training manual complete cbt

#### download airbus a320 training manual complete cbt facebook - Jun 20 2022

web airbus a320 training manual complete cbt airbus manuals airbus a320 training manual complete cbt full course a320 iae cfm with videos tutorials new link addeddownload here password amevoice com we do not host any files on our webservers and all the links posted are taken from internet and

airbus a320 training manual complete cbt - Oct 25 2022

web airbus a320 training manual complete cbt aviation and its management jan 02 2020 aviation has grown leaps and bounds within the last decade aviation courses and training at all levels have shown an exponential increase around airbus a320 neo cabin cbt family differences training - May 20 2022

web sep 24 2021 airbus a320 neo cabin cbt family the a320 cabin crew operating manual is taken as reference 737 320 a319 a330 a340 a340a330 atr b737 320 b747 b757 767 787 b777 b787 bj c750 cabin cbta dgr citation 560 competency based training compliance manager dangerous goods training

## airbus a320 free pdf manuals download manualslib - Aug 23 2022

web airbus a320 instructor support 208 pages table of contents aircraft documentation cockpit preparation and some cg considerations engine start manual is suitable for 1 more product a320 series brand airbus category aircrafts size 5 9 mb **a320guide** - Dec 27 2022

web the a320 guide app is an indispensable tool for pilots seeking the airbus a320 type rating this is an app version of the famous a320 systems ebook it includes free news and articles this app is available as a 3 month or lifetime subscription learn more

#### airbus a320 courses a320 type rating cbt cpat global - Aug 03 2023

web cpat global the world's leading provider in distance learning solutions offers airbus a320 training courses designed as a systems knowledge cbt for both initial and recurrent training additional airbus a320 pilot training courses available include basic and differences training interactive system diagrams and enhanced learning options

airbus a320 cbt online technical training efront - Feb 26 2023

web airbus a320 general familiarization videos for training purposes only skip to main content 0 0 items airbus a320 cbt already in cart non mandatory training airbus a320 cbt airbus a320 general familiarization videos for training purposes only there is no description for this course course content 1

## airbus a320 basic enhanced initial and recurrent training course - Mar 30 2023

web this airbus a320 basic enhanced training interactive course is designed as a systems knowledge cbt for both initial and recurrent training for airbus a320 basic enhanced aircraft this course provides complete systems training by use of text audio graphic animations and interactive training providing the highest level of learning

#### airbus a320 flight crew training manual pdf scribd - Sep 23 2022

web airbus a320 flight crew training manual free ebook download as pdf file pdf text file txt or read book online for free and check that all the appr proc actions have been completed preliminary airbus a318 a319 a320 a321 flight crew training manual operational philosophy ecam sequence

#### airbus a320neo cbt a320neo aircraft systems course avsoft - Jun 01 2023

web the airbus a320neo cbt computer based training aircraft systems course explores all the major aircraft systems including all the components operations controls and indications involved with each system

## aircraft characteristics airport and maintenance planning ac airbus - Jan 28 2023

web a320 aircraft characteristics airport and maintenance planning list of effective content revision no 39 dec 01 20 content chg code last revision date chapter 1 subject 1 1 0 purpose nov 01 19 subject 1 2 0 glossary dec 01 17 chapter 2 subject 2 1 1 general aircraft characteristics data nov 01 19 subject