

Service Service Service



Service Manual

TABLE OF CONTENTS

Technical specification	1-1
Features	1-1
Accessories	1-1
Instruction For Use	1-2
Safety & Warnings	1-8
Service hints	
Repair position	2-1
Dismantling CD-door	2-1
Handling chip components	2-2
Service tools	2-2
Block diagram	3-1



COMBI BOARD

Circuit diagrams

Part 1	4-1
Part 2	4-2
Part 3	4-3

Layout diagrams

Component side view	4-4
Copper side view	4-5

Exploded view	5-1
Mechanical partlist	5-1
Electrical partlist	6-1

© Copyright 2001 Philips Consumer Electronics B.V., Eindhoven, The Netherlands.
All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise without the prior permission of Philips.

Published by LX 00425 Service Audio Printed in the Netherlands Subject to modification

3140 785 32670

**CLASS 1
LASER PRODUCT**



PHILIPS

Philips Portable Cd Player Manual

D Siedentop



Philips Portable Cd Player Manual:

Fuel your quest for knowledge with Authored by is thought-provoking masterpiece, **Philips Portable Cd Player Manual** . This educational ebook, conveniently sized in PDF (PDF Size: *), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

https://crm.avenza.com/book/Resources/Download_PDFS/sharp%20ar%20f15%20f16%20ar%20pn4%20parts%20guide.pdf

Table of Contents Philips Portable Cd Player Manual

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

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

Philips Portable Cd Player Manual Introduction

In the digital age, access to information has become easier than ever before. The ability to download Philips Portable Cd Player 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 Philips Portable Cd Player Manual has opened up a world of possibilities. Downloading Philips Portable Cd Player 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 Philips Portable Cd Player 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 Philips Portable Cd Player 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 Philips Portable Cd Player 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 Philips Portable Cd Player 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 Philips Portable Cd Player 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 Philips Portable Cd Player 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. Philips Portable Cd Player Manual is one of the best book in our library for free trial. We provide copy of Philips Portable Cd Player Manual in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Philips Portable Cd Player Manual. Where to download Philips Portable Cd Player Manual online for free? Are you looking for Philips Portable Cd Player Manual PDF? This is definitely going to save you time and cash in something you should think about.

Find Philips Portable Cd Player Manual :

sharp ar f15 f16 ar pn4 parts guide

sharp an 52sp1 speakers owners manual

shapes on grid paper area

shanzu teachers training college intake 2013 fees

~~sfv650 2013 owners manual~~

setswana paper 3 grade 12 2014

~~setswana hl p1 november 2014~~

setting internet manual di android

~~seventh grade economic study guide~~

sf manual pach error

sharp aquos lc32d47ua manual

sex in second life english edition

~~shared on my birthday shared series english edition~~

seven seas hot tub owners manual

~~sharp aquos lc c3742u manual~~

Philips Portable Cd Player Manual :

İstanbul da 15 rahatlatıcı spa oteli 2023 istanbul tourist - Jan 08 2023

web raffles İstanbul hotels spa güzellik bakımlarından hidroterapi deneyimlerine rahatlatıcı masajlara kadar sadece en iyinin en iyisini sunar 3000 metrekarelik spada türk hamamları buhar odaları saunalar jakuziler zindelik havuzları buz

vaticano spa nuzzi gianluigi amazon com tr kitap - Feb 26 2022

web vaticano spa nuzzi gianluigi amazon com tr kitap Çerez tercihlerinizi seçin Çerez bildirimimizde ayrıntılı şekilde açıklandığı üzere alışveriş yapmanızı sağlamak alışveriş deneyiminizi iyileştirmek ve hizmetlerimizi sunmak için gerekli olan çerezleri ve benzer araçları kullanırız

baia del godano resort spa capo vaticano İtalya tripadvisor - May 12 2023

web baia del godano resort spa capo vaticano tarafsız yorumları okuyun gerçek gezgin fotoğraflarına bakın tripadvisor ın interaktif haritasını kullanarak konuma ve yakındaki restoran ve gezilecek yer seçeneklerine göz atın konaklamanız için fiyatları karşılaştırın ve en iyi teklifi alın

vatican tours in rome things to do tours activities and - Dec 27 2021

web sep 12 2023 raphael rooms vatican museums sistine chapel michelangelo s painting saint peter s basilica all 4 places uncover great artistic masterpieces of the vatican on this tour specifically designed for visitors with limited time vip vatican in a day tour experience art and history as never before

İstanbul en İyi 10 spa merkezi tripadvisor - Mar 10 2023

web İstanbul bölgesinde spa ve sağlık merkezi arayan çiftler için en iyi yerler şunlar ayasofya hürrem sultan hamamı Çukurcuma hamamı scorpios traditional reflexology house sultan süleyman hammam great fortune ambassador spa beauty salon İstanbul bölgesindeki çiftlere uygun diğer spa ve sağlık merkezi için tripadvisor a

tonicello hotel resort spa capo vaticano italien - Dec 07 2022

web das tonicello hotel resort spa erwartet sie mit einem eigenen strandbereich und einem im sommer geöffneten außenpool inmitten eines weitläufigen gartens an der sogenannten götterküste zwischen tropea und capo vaticano diese unterkunft bietet aussicht auf die Äolischen inseln und kostenfreies wlan in allen bereichen

otel capovaticano resort thalasso spa capo vaticano İtalya - Feb 09 2023

web otel fiyatlarını karşılaştı ve capovaticano resort thalasso spa capo vaticano İtalya otel için en ucuz fiyatı bul 49 fotoğrafı görüntüle ve 1554 yorumu oku otel mi trivago

home tropicano spa wellness - Mar 30 2022

web profesyonel terapist ve kaliteli ürünlerle spa masaj ve hamam hizmeti sunmaktayız klasik masaj 50 ve 80 dakikalık seçeneklerle vücudunuza genel bir gevşeme sağlar

vaticano com santuari e dintorni - Jan 28 2022

web vaticano com tratta di turismo religioso santuari monasteri e luoghi di culto in italia informazioni su itinerari e viaggi spirituali notizie su eventi manifestazioni religiose

tonicello hotel resort spa vatikano kyşulys italija - Nov 06 2022

web featuring a private beach area and a summer outdoor pool tonicello hotel resort spa is surrounded by a spacious garden set on the so called coast of the gods between tropea and capo vaticano this property offers views of

capovaticano resort thalasso spa tripadvisor - Apr 11 2023

web now 134 was 1 4 8 on tripadvisor capovaticano resort thalasso spa capo vaticano see 1 427 traveler reviews 1 584 candid photos and great deals for capovaticano resort thalasso spa ranked 8 of 27 hotels in capo vaticano and rated 4 of 5 at tripadvisor

vaticano spa amazon com tr kitap - Jun 01 2022

web vaticano spa amazon com tr kitap Çerez tercihlerinizi seçin Çerez bildirimimizde ayrıntılı şekilde açıklandığı üzere alışveriş yapmanızı sağlamak alışveriş deneyiminizi iyileştirmek ve hizmetlerimizi sunmak için gerekli olan çerezleri ve benzer araçları kullanırız

vaticano spa facebook - Jul 14 2023

web nel mentre milioni di bambini continuano a morire di fame vaticano spa avvia una mega raccolta fondi pubblicizzata in tutti i tg nazionali per

albergo l ancora capo vaticano İtalya otel yorumları - Sep 04 2022

web albergo l ancora capo vaticano tarafsız yorumları okuyun gerçek gezgin fotoğraflarına bakın tripadvisor ın interaktif haritasını kullanarak konuma ve yakındaki restoran ve gezilecek yer seçeneklerine göz atın

vaticano s p a da un archivio segreto la verità sugli scandali - Jul 02 2022

web vaticano s p a da un archivio segreto la verità sugli scandali finanziari e politici della chiesa è un libro di gianluigi nuzzi pubblicato da chiarelettere nella collana principioattivo acquista su ibs a 15 20

hotel resort rocca di vadaro capo vaticano İtalya - Aug 03 2022

web hotel resort rocca di vadaro capo vaticano tarafsız yorumları okuyun gerçek gezgin fotoğraflarına bakın tripadvisor in interaktif haritasını kullanarak konuma ve yakındaki restoran ve gezilecek yer seçeneklerine göz atın konaklamanız için fiyatları karşılaştırın ve en iyi teklifi alın

capovaticano resort thalasso spa capo vaticano - Jun 13 2023

web capovaticano resort thalasso spa 1 416 yorum capo vaticano bölgesindeki 9 tatil köyü arasında 3 sırada yorum kaydet paylaş località tono frazione 89865 capo vaticano ricadi İtalya 011 39 041 852 0449 otelin web sitesini ziyaret edin

vaticano s p a wikipedia - Aug 15 2023

web vaticano s p a da un archivio segreto la verità sugli scandali finanziari e politici della chiesa è un saggio inchiesta giornalistica di gianluigi nuzzi già collaboratore del corriere della sera e il giornale sugli scandali finanziari e politici degli anni novanta dell istituto per le opere di religione e sui suoi rapporti con la mafia

vaticano s p a facebook - Apr 30 2022

web vaticano s p a 17 092 likes da un archivio segreto la verità sugli scandali finanziari e politici della chiesa disponibile in capovaticano resort thalasso spa calabria la guida - Oct 05 2022

web capovaticano resort thalasso spa località tono frazione san nicolò calabria italia 121 camere classico contemporaneo e tranquillo aggiungi a preferiti a partire da tasse incluse notte descrizione camere tariffe posizione servizi 18 1 20 spazi comuni 19 3 camere 17 0 servizi 17 8 esperienza generale 18 1

bled 5e 4e 3e cours supérieur daniel berlion 2011251915 - Oct 08 2022

web bled 5e 4e 3e cours supérieur 19 90 auteur daniel berlion collection livre bled référence ean 9782011251916 vendu et expédié par cultura État neuf disponible sous 6 jours

bled 5ème 4ème 3ème cours supérieur edouard bled livres - Dec 10 2022

web jan 1 1998 bled 5ème 4ème 3ème cours supérieur d orthographe grammaire conjugaison vocabulaire de plongez vous dans le livre edouard bled au format ajoutez le à votre liste de souhaits ou abonnez vous à l auteur edouard bled livraison gratuite à 0 01 dès 35 d achat furet du nord

bled 5e 4e 3e et bep corrige c s du livre de l a pdf stan - Jul 05 2022

web jul 6 2023 merely said the bled 5e 4e 3e et bep corrige c s du livre de l a pdf is universally compatible similar to any devices to read the flight to varennes alexandre dumas 1962 tropical plant science g k berrie 1987 le catalogue de l édition française 1976 une liste exhaustive des ouvrages disponibles publiés en français de par le monde

bled 5e 4e 3e et bep corrigés du livre de l élève édition 1998 - Mar 01 2022

web jun 2 2023 bled 5e 4e 3e et bep corrige s du livre de la la uml ve a dition bled 5e 4e 3e bep cours supérieur bled e e e bep cours supérieur corrigés des exercices du livre de l élève auteur Édouard bled auteur odette bled paru le Éditeur s pdf

parascolaire hachette education download corrigé bled 5e 4e 3e pdf bled 6eme 5eme pdf bled cours

livre bled 5e 4e 3e bep cours supérieur corrigés des - Apr 14 2023

web dec 2 1998 découvrez et achetez le livre bled 5e 4e 3e bep cours supérieur corrigés des exercices du livre de l élève écrit par edouard bled et odette bled chez hachette education sur lalibrairie com

librairie mollat bordeaux - Jan 11 2023

web we would like to show you a description here but the site won t allow us

bled 5e 4e 3e et bep corrige c s du livre de l a pdf pdf - Jun 16 2023

web bled 5e 4e 3e et bep corrige c s du livre de l a pdf introduction bled 5e 4e 3e et bep corrige c s du livre de l a pdf pdf livres hebdo 2002 le catalogue de l édition française 1976 une liste exhaustive des ouvrages disponibles publiés en française de par le monde shout

bled 5e 4e 3e et bep corrige c s du livre de l a hostingaffiliate - Dec 30 2021

web mar 29 2023 as this bled 5e 4e 3e et bep corrige c s du livre de l a it ends in the works brute one of the favored books bled 5e 4e 3e et bep corrige c s du livre de l a collections that we have this is why you remain in the best website to see the amazing ebook to have a guide to the birds of east africa nicholas drayson 2009 03 05

bled 5e 4e 3e et bep corrigés du livre de l élève édition 1998 - May 15 2023

web jun 16 2023 if you effort to acquire and implement the bled 5e 4e 3e et bep corrigés du livre de l élève édition 1998 by berlion it is wholly basic then presently we extend the associate to buy and create bargains to acquire and deploy bled 5e 4e 3e et bep corrigés du livre de l élève édition 1998 by berlion therefore plain therefore easy so

bled 5e 4e 3e et bep corrige c s du livre de l a copy - May 03 2022

web merely said the bled 5e 4e 3e et bep corrige c s du livre de l a is universally compatible with any devices to read maisy s snuggle book lucy cousins 2011 09 a soft snuggly book with cushiony padded pages in bold bright colours featuring maisy and her favourite friends suitable for a parent and baby to share at

bled 5e 4e 3e cours supérieur Édouard bled chapitre com - Nov 09 2022

web apr 12 2000 une étude progressive des difficultés de la langue française et un large éventail d exercices une structure des leçons rigoureuse la règle est complétée par des exemples et des tableaux de très nombreux exercices d entraînement ainsi que du vocabulaire à retenir des exercices de révision un index général

bled 5e 4e 3e bep cours supérieur corrigés des exercices du - Aug 18 2023

web découvrez bled 5e 4e 3e bep cours supérieur corrigés des exercices du livre de l élève de edouard bled sur booknode la communauté du livre

bled 5e 4e 3e et bep corrigés du livre de l élève édition 1998 - Sep 07 2022

web bled 5e 4e 3e et bep corrigés du livre de l élève édition 1998 by berlion bled 5e 4e 3e et bep corrigés du livre de l élève édition 1998 by berlion dictes audio pour s entrainer rviser le brevet description read download archive cromosoma cinco tllcharger bled 6eme 5eme pdf corrig bled 6e 5e 120 download corrig bled 5e 4e 3e corrig

bled 5e 4e 3e et bep corrige c s du livre de l a pdf book - Feb 12 2023

web jul 3 2023 bled 5e 4e 3e et bep corrige c s du livre de l a pdf yeah reviewing a ebook bled 5e 4e 3e et bep corrige c s du livre de l a pdf could grow your close friends listings this is just one of the solutions for you to be successful as understood carrying out does not recommend that you have extraordinary points

bled 5e 4e 3e et bep corrige c s du livre de l a 2022 - Jun 04 2022

web leçons 40 pour les élèves de 6e et de 5e et 40 pour ceux de 4e et de 3e chacune des leçons présente une règle d orthographe clairement expliquée et illustrée par de nombreux exemples

bled 5e 4e 3e et bep corrige c s du livre de l a louis trimble - Jul 17 2023

web merely said the bled 5e 4e 3e et bep corrige c s du livre de l a is universally compatible with any devices to read le siège de paris francisque sarcey 2019 02 28 this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original

bled 5e 4e 3e et bep corrige c s du livre de l a podmagical - Jan 31 2022

web apr 26 2023 bled 5e 4e 3e et bep corrige c s du livre de l a is additionally useful you have remained in right site to start getting this info acquire the bled 5e 4e 3e et bep corrige c s du livre de l a belong to that we meet the expense of here and check out the link you could purchase guide bled 5e 4e 3e et bep corrige c s du livre de l a or

bled 5e 4e 3e et bep corrige c s du livre de l a pdf pdf - Aug 06 2022

web noise and distractions however set within the musical pages of bled 5e 4e 3e et bep corrige c s du livre de l a pdf a captivating function of literary brilliance that pulses with raw emotions lies an wonderful journey waiting to be embarked upon penned by way of a virtuoso wordsmith this mesmerizing

bled 5e 4e 3e et bep corrige c s du livre de l a uniport edu - Apr 02 2022

web mar 20 2023 like this bled 5e 4e 3e et bep corrige c s du livre de l a but end up in harmful downloads rather than enjoying a good book with a cup of tea in the afternoon instead they are facing with some malicious virus inside their laptop bled 5e 4e 3e et bep corrige c s du livre de l a is available in our digital library an online access to it is

bled 5e 4e 3e et bep corrige c s du livre de l a - Mar 13 2023

web bled 5e 4e 3e et bep corrige c s du livre de l a vanity fair mar 02 2020 dictionary of the english and german languages oct 21 2021 montaigne a le premier largement contribué cette biographie s interroge sur l historicité des essais et leur inscription dans les pratiques politiques et sociales de la fin de la renaissance conseiller

what is the shoe manufacturing process comunitymade - Oct 05 2023

web aug 27 2021 shoe manufacturing is the process of making footwear it involves numerous steps to put all the pieces together handmade shoes for example go through a long shoemaking process before they can be worn the number of steps that go into shoe production varies

life cycle assessment of a leather shoe supply chain - Feb 26 2023

web for example the shoe manufacturer produces three different shoe typologies i e classic casual prototypes the sole manufacturer produces two typologies of soles i e leather leather rubber insole manufacturer produces two main outputs i e insole footbed etc

how shoes are made a simple guide to the 8 steps involved - Aug 03 2023

web after the sole and insole are created the first step in manufacturing the shoe is the sewing of the shoe upper onto the outsole

how shoes are made a step by step process kizik - Sep 04 2023

web apr 20 2023 the first step in the creation of anything is the initial design process the shoe design process may be the work of one individual or the work of a team there are generally two phases of footwear design initial design and technical design the initial design is the work of a creator with a vision in mind

how shoes are made step by step italian shoe factory - Jul 02 2023

web may 12 2019 wondering how shoes are made learn about the shoe manufacturing process used in bringing your designs to life in this step by step guide to shoemaking

shoe making process shoemakers academy - Jun 01 2023

web the basic shoemaking steps are 1 cutting upper parts 2 stitching shoe uppers 3 lasting and assembly in this article we will look at each of these factory processes for shoes of course the number of operations is not 3 the number of operations is more like 30 000 depending on how you are counting cutting shoe parts

leather footwear manufacturing a complete guide deskera - Mar 30 2023

web leather footwear manufacturing is the process of creating shoes boots and sandals using leather as the primary material the process involves designing pattern making cutting stitching lasting and finishing the leather to produce high quality footwear

shoe manufacturing blog carlos santos - Jan 28 2023

web 2022 handcrafted shoes shoe manufacturing is the concept that describes the process behind the making of footwear to handcraft a pair of beautiful quality shoes at carlos santos more than 200 manual operations can be executed by our experienced artisans

editorial shoe design and manufacturing taylor francis online - Dec 27 2022

web feb 19 2007 as a basis to the design and manufacture of shoes consideration should be given to how a shoe is made and what are its main components the major components of a shoe are shown in figure 2 and consist of the last which represents the shape of the foot

shoemaking process how shoes are made italian shoe factory - Apr 30 2023

web the number of steps involved in the shoe manufacturing process depends on the style of shoes being produced for example how shoes are made for private label brands is very different from the custom shoemaking process looking for a ballpark figure let s just say a shoe may be created in 70 steps or it may take up to 300 to complete