Cable Box Hook Up Diagrams

hdtv hdmi dvi cable tv converter hookup diagrams, tv vcr cable box hook up diagrams wiring diagram and, shaw wiring diagrams, how to hook up a vcr tv amp cable box it still works, wiring diagrams hookup dvd vcr tv hdtv satellite cable, how to connect a dvd player vcr and digital cable box, doing your own telephone wiring, i need a diagram to hook up my hdtv hd cable box series, tivo whole home installation, connecting your components if you have an hd dvr receiver, hooking up home theatre technical article, connection guides home electronics home theater systems, how to hook up a light switch diagram netplato net, hdtv hook up diagrams best free wiring diagram, av wiring connection guide lifewire, cox cable fast connect instruction manual pdf download, how to hook up a comcast cable box wikihow, hooking up your hdtv doityourself com, allen s tv cable how to hook up a vcr, dvr diagram how to wire it com, how to hook up home theater system diagrams, basic home theater av set up guide hooking it all up, digital audio out optical quick setup guide, diagram to hook up cable box swm box and direct tv how, dvd player wiring diagram jensen dvd player wiring, wiring diagrams for your entertainment system, cable box wiring wiring diagram database tv signal, how do i hookup a dvd recorder to a tv home theater system, need diagram to hook up to cable box vcr and tv fixya, how to hook up surround sound all about home electronics, how to connect a cable box to a tv using hdmi wire comcast xfinity, cable tv and cable modem wiring diagram comcast xfinity, wiring diagrams for your entertainment system, how to hook up cable box to hdtv diagram dish network, solved wiring diagram xfinity help and support forums, need hook up diagram for samsung hdtv using hdmi with, electrical wiring diagram enviosmaucom ipage com, trailer wiring hook up diagram, wiring diagrams hookup blu ray hdtv digital cable box, generic labels possible variations sony asia com, how to hook up a cable box to a samsung hdtv it still works, how to hook up hd cable box hd tv and dvdr recorderhdtv cable connection hookup diagram option 2 dvi video digital video dvi is a video only connection no audio if your hd cable box or tuner has only a dvi output jack and your hdtv has a dvi input jack then you can use a dvi to dvi cable for the video connection and then use a stereo rca analog audio cable connection, tv vcr cable box hook up diagrams apr 09 2019 details about tv vcr cable box hook up diagrams has been submitted by maria rodriquez and tagged in this category in some cases we may need to slightly change the design colour or even accessories we need a whole new idea for it then one of them is tv vcr cable box hook up diagrams, hd video and audio cable that can produce up to 1080p connection and up to 7 1 surround sound optical audio cable wiring diagram for hd terminal page 4 with component video and optical cables with receiver to cable outlet wiring diagram for hd terminal page 5 with component video and rca cables stereo only with receiver to cable, consumers are still using this handy device for recording and watching recordings long after the introduction of dvd digital video disc and blu ray players you can connect one up to your system easily it only takes a few cables plus a little bit of your time to hook up a vcr to your tv and cable box, how to connect digital tv converter box to older analog tv hook up diagram for old portable tv sets using a tv converter box dtv converter boxes
for 2009 the switch to digital tv hook up hd cable box hdtv dvd vcr a v receiver 90 hook up satellite box dtv converter a b switch tv, how to connect a dvd player vcr and digital cable box this wikihow teaches you how to connect a dvd player vcr and digital cable box to your television using the best possible connections check your tv s inputs on the back or side, the following two diagrams show the color coding scheme for the old kind of wire this probably applies to your house if you re not running any new cable and are simply running a second line thru the existing unused yellow black wire if you re running cat 5 cable you ll need to make the appropriate color conversions, i need a diagram to hook up my hdtv hd cable box series 2 tivo and sony av dvd sysytem answered by a verified tv technician, tivo whole home installation to decrypt cable channels with a third party box cable companies require the use of a cablecard two variations of this card exist a single stream if you are waiting to pick up a cablecard from the cable company office or you are not going to use cablecards follow the prompts to continue, cable input hdmi cable hdtv back hd receiver back in in out cable input video cables audio cables hdtv back hd receiver back to connect hd using an hdmi cable connectingyour components if you have an hd dvr receiver and an hdmi input on your tv you can use a single hdmi cable instead of a component cable both cables will produce the same, here are some diagrams on how to connect the components together diagram 1 diagram 1 illustrates a simple home theatre configuration consisting of a tv vcr cable box dvd player and a receiver amp with this setup the vcr would need to be powered on to watch cable tv, get the most out of yours by optimizing your hookup cables typically not included hdmi cable component video cable s video cable analog audio cable subwoofer cable digital coax digital audio cable fiber optic cable these connection guides and diagrams show how to connect separate components into your home theater system the, how to hook up a light switch diagram hold the tip of a noncontact electrical tester against the wires connected to the switch if the light on the tester consult your timers wiring diagram to ensure which wire is the hot lead from the most basic three way switch setup has two switches that connect and control one light fixture gained the skills to tackle that as well, hdtv hook up diagrams thanks for visiting our site this is images about hdtv hook up diagrams posted by maria nieto in hdtv category on apr 02 2019 you can also find other images like images wiring diagram images parts diagram images replacement parts images electrical diagram images repair manuals images engine diagram images engine scheme images wiring harness images fuse box, audio video wiring diagrams a how to connect guide for those installing televisions including vcr dvd video game console cable box and other components audio video wiring diagrams a how to connect guide for those installing televisions including vcr dvd video game console cable box and other components av wiring connection guide, cox cable fast connect instruction manual hide thumbs 1 2 converter box and cable if needed remote with instructions and batteries refer to the hook up diagrams above and match the correct diagram for home video set up step 3 location of the converter box choose a spot with adequate ventilation the converter box generates, how to hook up a comcast cable box this wikihow teaches you how to connect a comcast cable box to your tv make sure that you have cable installed if a comcast representative didn t come to your house to install cable you ll need to, cable satellite input this is where the cable gets input to the
television if you don’t have a digital converter box now let’s look at the best ways to hook up your system for the best sight and sound. Best sight sound hook up the cable to your digital converter box could be your digital cable satellite or DVR box use the IEEE 1394, this diagram shows how to connect your cable set top converter box. VCR and TV cable from the wall outlet goes to the in on the cable converter box cable from the out on the cable converter box goes to the in on the VCR cable from the out on the VCR goes to the in on TV, the DVR diagram or aka personal video recorder is a major improvement over VCR technology get the most out of yours by optimizing your hookup not all PVRs are able to record in high definition if yours can and the rest of your components can accept it HDMI and component video are the best quality video connections you can make, audio video hook up connections audio video hook up connections used at the home theater wiring diagrams note that complete HD system requires a HD sound system a source of HD content and proper setup connection with components such as HD cable or satellite box find out what are AV hooking up connections hook up AV cables, below is a picture of the receiver and a diagram of how everything should be hooked up home theater connection diagram Blu-ray one HDMI cable goes from the Blu-ray player to an HDMI input on the receiver satellite cable goes from the satellite cable set top receiver to an HDMI input on the receiver, cable box or satellite receiver c sony dream system splitter cable e use this diagram if you have cable box VCR sony dream system or satellite receiver f for best results check the cable boxes manual for proper setup of the HD output if your HD cable box and DVD player have HDMI jacks use HDMI with the HD cable box and component video, how can 2 TVs be hooked up to 1 630 receiver since it has no out to TV for coax cable diagram to hook up TV DVR and smart TV box the coax cable broke off the back of my new flat screen TV the TV is only 8 month old and i was wondering if it can i be repaired and how much can i run a Bell 9241 receiver with just one coax cable, DVD player hook up diagram online wiring diagram DVD player wiring diagram Samsung DVD wiring diagram electrical circuit electrical wiring DVD player wiring diagram cable box DVD player wiring diagram free download wiring diagram schematic DVD player wiring diagram, click here to see this wiring diagram wiring instructions connect one end of the composite red right white left cable to the cable box connector labeled composite audio output monitor or TV and the other end to a composite connector on the VCR that also has component connectors in the same section, cable box wiring wiring diagram database TV signal amplifier schematics dish 211 receiver hook up diagrams best place to find wiring and datasheet resources, how do i hook up a DVD recorder to a TV home theater system record your TV programs on DVD and watch them on TV you can either hook up the output of your VCR to the TV’s RF input and the DVD recorder to the single set of AV inputs or get an AV switcher to place between the VCR and DVD recorder and TV cable or satellite box what to need diagram to hook up to cable box VCR and TV i want to record from TV and VCR onto DVD can’t find manual lite on LVW 5005 DVD recorder question, take a moment to look over the how to hook up surround sound diagram shown below equipment you need for connecting a surround sound system the quick list is you need a TV surround sound amplifier speakers wire connection cables and a source such as cable satellite uverse set top box antenna DVD player blue ray player gaming console, how to connect a cable box to a TV using HDMI wire
comcast xfinity homeowner repair this video will show you how to connect and hook up a comcast xfinity cable box to your hdtv using a hdmi, cable tv and cable modem wiring diagram. hello i am trying to find out the correct way to wire my house for a set up where you use a high quality unbalanced 3 way splitter, click here to see this wiring diagram. wiring instructions connect one end of the hdmi cable to the dvd connector labeled hdmi output monitor or tv and the other end to any input hdmi connector on the receiver. hdtv cable dvd hookup diagrams how do you hook up a ha component audio and video cable to the back of a hdtv vision tv for a ps3 i unplugged my component cable from my directv box to my hdtv and the cable still works hooking up hdtv cable box and dvd diagram do i need a vga hdmi converter to connect my dell inspiron 1545 to sanyo hdtv, thank you for your response the hook up suggested is what i intended originally the comcast tech hooked the incoming coax to the cable box and the hdmi cable directly from the cable box to the tv my initial thought was to be able to watch the tv without the receiver on just using the speakers on the tv, need hook up diagram for samsung hdtv using hdmi with cable box and samsung 5.1 surround theater system i have my hd television amp video question, a solution to this problem is called a junction box or a star it acts like a hub and each mod jack or phone jack will be wired separately and exclusively back to the junction box it takes more cable but is more reliable the illustration below shows a basic house wiring diagram for residential phone systems, no cable box required cancel anytime working no thanks try it free trailer wiring hook up diagram thinking out side box loading unsubscribe from thinking out side box cancel, this specific photograph wiring diagrams hookup blu ray hdtv digital cable box netflix inside cable box wiring diagram previously mentioned can be branded with box cable diagram placed simply by tops stars team from september 13 2013, how to connect a set top box and a dvd player to a tv using component video cables and composite audio cables when to use this hookup we recommend this hookup to view cable or satellite service on your tv and for playing dvd movies this connection should be used if your tv dvd player and set top box all have component video jacks, a samsung hdtv is designed to hook up to your cable or satellite box very readily it can be intimidating however both because of the comparative newness of the technology and because of the number of different cable outlets involved in truth it s very simple to hook up the cable box to a samsung hdtv, how do i hook up dc550d hd cable box with panasonic hd tv and panasonic dvd vcr recorder i am a complete novice at this stuff thanks 1 wolfshadw splendid moderator aug 3 2006 2 416 0 i m sorry but diagrams mean nothing to me as i don t know the type of cable indicated as i said i am a complete novice at this stuff 0 j

HDTV HDMI DVI Cable TV Converter Hookup Diagrams
March 25th, 2019 - HDTV cable connection hookup diagram Option 2 DVI Video digital Video DVI is a video only connection no audio If your HD cable box or tuner has only a DVI output jack and your HDTV has a DVI input jack then you can use a DVI to DVI cable for the video connection and then use a stereo RCA analog audio cable connection

Tv Vcr Cable Box Hook Up Diagrams Wiring Diagram And
April 17th, 2019 - Tv Vcr Cable Box Hook Up Diagrams Apr 09 2019 Details about tv vcr cable box hook up diagrams has been submitted by Maria Rodriguez
and tagged in this category In some cases we may need to slightly change the design colour or even accessories We need a whole new idea for it then one of them is tv vcr cable box hook up diagrams

**SHAW WIRING DIAGRAMS**
April 10th, 2019 - HD Video and Audio cable that can produce up to 1080P connection and up to 7 1 Surround Sound OPTICAL AUDIO CABLE WIRING DIAGRAM FOR HD TERMINAL Page 4 With Component Video and Optical Cables With Receiver TO CABLE OUTLET WIRING DIAGRAM FOR HD TERMINAL Page 5 With Component Video and RCA Cables Stereo Only With Receiver TO CABLE

**How to Hook Up a VCR TV amp Cable Box It Still Works**
April 18th, 2019 - Consumers are still using this handy device for recording and watching recordings long after the introduction of DVD digital video disc and Blu ray players You can connect one up to your system easily It only takes a few cables plus a little bit of your time to hook up a VCR to your TV and cable box

**wiring diagrams hookup dvd vcr TV hdtv satellite cable**
February 28th, 2019 - How to connect Digital TV Converter Box to older analog TV • Hook up diagram for old portable TV sets using a TV converter box • DTV converter boxes for 2009 the switch to Digital TV Hook up HD Cable box HDTV DVD VCR A V receiver 90 Hook up satellite box DTV converter A B switch TV

**How to Connect a DVD Player VCR and Digital Cable Box**
December 12th, 2017 - How to Connect a DVD Player VCR and Digital Cable Box This wikiHow teaches you how to connect a DVD player VCR and digital cable box to your television using the best possible connections Check your TV s inputs On the back or side

**Doing your own telephone wiring**
April 16th, 2019 - The following two diagrams show the color coding scheme for the old kind of wire This probably applies to your house if you re not running any new cable and are simply running a second line thru the existing unused yellow black wires If you re running Cat 5 cable you ll need to make the appropriate color conversions

**I need a diagram to hook up my hdtv hd cable box series**
February 15th, 2019 - I need a diagram to hook up my hdtv hd cable box series 2 tivo and sony av dvd sysytem Answered by a verified TV Technician

**TIVO WHOLE HOME INSTALLATION**
April 17th, 2019 - TiVo Whole Home Installation To decrypt cable channels with a third party box cable companies require the use of a CableCARD Two variations of this card exist a Single stream If you are waiting to pick up a CableCARD from the cable company office or you are not going to use CableCARDs follow the prompts to continue

**ConnectingYour Components If you have an HD DVR receiver**
April 9th, 2019 - Cable input HDMI cable HDTV back HD Receiver back IN IN OUT
Cable input Video cables Audio cables HDTV back HD Receiver back To Connect HD Using an HDMI Cable Connecting Your Components If you have an HD DVR receiver and an HDMI input on your TV you can use a single HDMI cable instead of a component cable Both cables will produce the same

**Hooking Up Home Theatre Technical Article**
April 16th, 2019 - Here are some diagrams on how to connect the components together Diagram 1 illustrates a simple Home Theatre configuration consisting of a TV VCR Cable Box DVD Player and a Receiver Amp With this setup the VCR would need to be powered on to watch cable TV

**Connection Guides Home Electronics Home Theater Systems**
April 10th, 2019 - Get the most out of yours by optimizing your hookup CABLES TYPICALLY NOT INCLUDED HDMI Cable Component Video Cable S Video Cable Analog Audio Cable Subwoofer Cable Digital Coax Digital Audio Cable Fiber Optic Cable These connection guides and diagrams show how to connect separate components into your home theater system The

**How To Hook Up A Light Switch Diagram netplato net**
April 17th, 2019 - How to hook up a light switch diagram Hold the tip of a noncontact electrical tester against the wires connected to the switch If the light on the tester consult your timers wiring diagram to ensure which wire is the hot lead from The most basic three way switch setup has two switches that connect and control one light fixture gained the skills to tackle that as well

**Hdtv Hook Up Diagrams Best Free Wiring Diagram**
April 14th, 2019 - Hdtv Hook Up Diagrams thanks for visiting our site this is images about hdtv hook up diagrams posted by Maria Nieto in Hdtv category on Apr 02 2019 You can also find other images like images wiring diagram images parts diagram images replacement parts images electrical diagram images repair manuals images engine diagram images engine scheme images wiring harness images fuse box

**AV Wiring Connection Guide Lifewire**
April 14th, 2019 - Audio Video Wiring Diagrams A how to connect guide for those installing televisions including VCR DVD video game console cable box and other components Audio Video Wiring Diagrams A how to connect guide for those installing televisions including VCR DVD video game console cable box and other components AV Wiring Connection Guide

**COX CABLE FAST CONNECT INSTRUCTION MANUAL Pdf Download**
April 2nd, 2019 - COX Cable Fast Connect Instruction Manual Hide thumbs 1 2 Converter box and cable if needed Remote with instructions and batteries Refer to the hook up diagrams above and match the correct diagram for home video set up Step 3 Location Of The Converter Box Choose a spot with adequate ventilation The converter box generates

**How to Hook Up a Comcast Cable Box wikiHow**
March 28th, 2019 - How to Hook Up a Comcast Cable Box This wikiHow teaches
you how to connect a Comcast cable box to your TV. Make sure that you have cable installed. If a Comcast representative didn't come to your house to install cable, you'll need to.

**Hooking Up Your HDTV DoItYourself.com**

September 13th, 2011 - Cable Satellite Input. This is where the cable gets input to the television, if you don't have a digital converter box. Now let's look at the best ways to hook up your system for the best sight and sound. Best Sight Sound. Hook up the cable to your digital converter box could be your digital cable satellite or DVR box. Use the IEEE 1394.

**Allen s TV Cable How to hook up a VCR**

April 16th, 2019 - This diagram shows how to connect your cable set top converter box, VCR, and TV. Cable from the wall outlet goes to the in on the cable converter box. Cable from the out on the cable converter box goes to the in on the VCR. Cable from the out on the VCR goes to the in on TV.

**DVR Diagram how to wire it com**

April 15th, 2019 - The DVR diagram or AKA Personal Video Recorder (PVR) is a major improvement over VCR technology. Get the most out of yours by optimizing your hookup. Not all PVRs are able to record in high definition. If yours can and the rest of your components can accept it, HDMI and Component Video are the best quality video connections you can make.

**How To Hook Up Home Theater System Diagrams**

April 17th, 2019 - Audio Video Hook Up Connections. Audio video hook up connections used at the home theatre wiring diagrams. Note that complete HD system requires a HD sound system, a source of HD content, and proper setup connection with components such as HD cable or satellite box. Find out what are av hooking up connections. Hook Up AV Cables.

**Basic Home Theater AV Set Up Guide Hooking It All Up**

February 7th, 2012 - Below is a picture of the receiver and a diagram of how everything should be hooked up. Home Theater Connection Diagram. Blu ray - One HDMI cable goes from the Blu ray player to an HDMI input on the receiver. Satellite Cable Set top Box - One HDMI cable goes from the Satellite Cable Set top receiver to an HDMI input on the receiver.

**DIGITAL AUDIO OUT OPTICAL Quick Setup Guide**

April 18th, 2019 - Cable Box or Satellite Receiver C Sony Dream System Splitter Cable E. Use this diagram if you have Cable Box, VCR, Sony Dream System or Satellite Receiver. F For best results check the cable box’s manual for proper setup of the HD output. If your HD cable box and DVD player have HDMI jacks use HDMI with the HD cable box and component video.

**Diagram to hook up cable box swm box and direct tv How**

April 16th, 2019 - How can 2 TVs be hooked up to 1 630 receiver since it has no out to TV for coax cable. Diagram to hook up TV DVR and smart TV box. The coax cable broke off the back of my new flat screen TV. The TV is only 8 months old and I was wondering if it can be repaired and how much. Can I run a bell.
9241 receiver with just one coax cable

**Dvd Player Wiring Diagram jensen dvd player wiring**
April 20th, 2019 - Dvd Player Hook Up Diagram Online Wiring Diagram dvd player wiring diagram Samsung Dvd Wiring Diagram Electrical Circuit Electrical Wiring dvd player wiring diagram Cable Box Dvd Player Wiring Free Download Wiring Diagram Schematic dvd player wiring diagram

**Wiring Diagrams for your Entertainment System**
April 10th, 2019 - Click here to see this wiring diagram Wiring Instructions Connect one end of the Composite Red Right White Left cable to the Cable Box connector labeled Composite Audio Output Monitor or TV and the other end to a Composite connector on the VCR that also has Component connectors in the same section

**Cable Box Wiring Wiring Diagram Database Tv Signal**
April 20th, 2019 - Cable Box Wiring Wiring Diagram Database Tv Signal Amplifier Schematics Dish 211 Receiver Hook Up Diagrams Best Place to Find Wiring and Datasheet Resources

**How Do I Hookup a DVD Recorder to a TV Home Theater System**
April 15th, 2019 - How Do I Hookup a DVD Recorder to a TV Home Theater System Record your TV programs on DVD and watch them on TV you can either hook up the output of your VCR to the TV s RF input and the DVD recorder to the single set of AV inputs OR get an AV switcher to place between the VCR and DVD recorder and TV Cable or Satellite Box What to

**Need diagram to hook up to cable box vcr and tv Fixya**
April 10th, 2019 - need diagram to hook up to cable box vcr and tv i want to record from tv and vcr onto dvd can t find manual Lite On LVW 5005 DVD Recorder question

**How to Hook up Surround Sound – All About Home Electronics**
April 15th, 2019 - Take a moment to look over the How to Hook up Surround Sound Diagram shown below Equipment you need for Connecting a Surround Sound System The quick list is you need a TV Surround Sound amplifier speakers Wire Connection Cables and a source such as Cable Satellite Uverse set top box Antenna DVD player Blue Ray Player Gaming Console

**How To Connect a Cable Box To a TV using HDMI Wire Comcast Xfinity**
April 17th, 2019 - How To Connect a Cable Box To a TV using HDMI Wire Comcast Xfinity Homeowner Repair This video will show you how to connect and hook up a Comcast Xfinity cable box to your HDTV using a HDMI

**Cable tv and cable modem wiring Diagram Comcast XFINITY**
April 2nd, 2019 - Cable tv and cable modem wiring Diagram Hello I am trying to find out the correct way to wire my house for a set up where you use a high quality unbalanced 3 way splitter

**Wiring Diagrams for your Entertainment System**
How to hook up cable box to hdtv diagram Dish network
April 14th, 2019 - Hdtv cable dvd hookup diagrams How do you hook up a ha component audio and video cable to the back of a hdtv vision tv for a ps3 I unplugged my component cable from my directv box to my hdtv and the cable still works Hooking up hdtv cable box and dvd diagram Do i need a vga hdmi converter to connect my dell inspiron 1545 to sanyo hdtv

Solved Wiring Diagram Xfinity Help and Support Forums
April 14th, 2019 - Thank You for your response The hook up suggested is what I intended originally The Comcast tech hooked the incoming coax to the cable box and the HDMI cable directly from the cable box to the TV My initial thought was to be able to watch the TV without the receiver on just using the speakers on the TV

Need hook up diagram for Samsung HDTV using HDMI with
April 10th, 2019 - Need hook up diagram for Samsung HDTV using HDMI with Cable box and Samsung 5 1 Surround Theater System I have my HD Televison amp Video question

ELECTRICAL WIRING DIAGRAM enviosmaucom ipage com
April 14th, 2019 - A solution to this problem is called a “junction box” or a “star” It acts like a hub and each mod jack or phone jack will be wired separately and exclusively back to the junction box It takes more cable but is more reliable The illustration below shows a basic house wiring diagram for residential phone systems

Trailer Wiring Hook Up Diagram
April 8th, 2019 - No cable box required Cancel anytime Working No thanks Try it free Trailer Wiring Hook Up Diagram Thinking out side box Loading Unsubscribe from Thinking out side box Cancel

Wiring Diagrams Hookup Blu Ray Hdtv Digital Cable Box
April 10th, 2019 - This specific photograph Wiring Diagrams Hookup Blu Ray Hdtv Digital Cable Box Netflix inside Cable Box Wiring Diagram previously mentioned can be branded with box cable diagram Placed simply by Tops Stars Team from September 13 2013

Generic labels Possible variations sony asia com
April 17th, 2019 - How to Connect a Set top Box and a DVD Player to a TV Using Component Video Cables and Composite Audio Cables When to use this hookup We recommend this hookup to view cable or satellite service on your TV and for playing DVD movies This connection should be used if your TV DVD player and set top box all have component video jacks

How to Hook Up a Cable Box to a Samsung HDTV It Still Works
April 18th, 2019 - A Samsung HDTV is designed to hook up to your cable or
satellite box very readily. It can be intimidating however both because of the comparative newness of the technology and because of the number of different cable outlets involved. In truth it is very simple to hook up the cable box to a Samsung HDTV.

**How to hook up hd cable box hd tv and dvd vcr recorder**

April 18th, 2019 - How do I hook up dc550d hd cable box with panasonic hd tv and panasonic dvd vcr recorder I am a complete novice at this stuff. Thanks 1

Wolfshadw Splendid Moderator Aug 3 2006 2 416 0 I’m sorry but diagrams mean nothing to me as I don’t know the type of cable indicated. As I said I am a complete novice at this stuff. 0 J