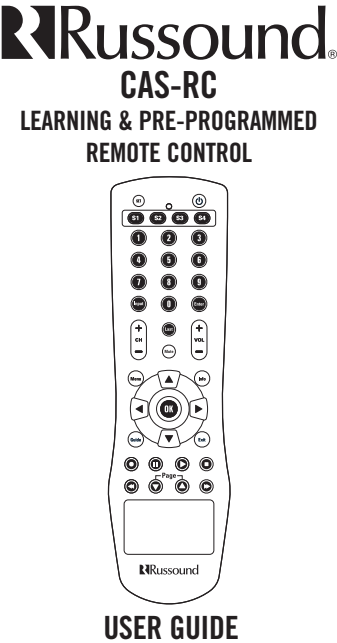




INTRODUCTION

The CAS-RC Remote Control is designed for use with the Russound CAS44 controller amplifier and system keypads (KP6, KP4, and KPL). It is designed to operate source devices and the audio system keypad, and is preprogrammed to control Russound components (ST2 Tuner and SMS3 Media Server). The CAS-RC controls up to four devices. For best results, please read and follow all the remaining instructions and keep this guide for future reference.

FEATURES AND FUNCTIONS

Note: S1, S2, S3, S4, Vol +/-, Mute and Power are system commands and are the same for any source. All other buttons are dependent upon the device code associated with the source and may vary from device to device.

The following Key Charts provide a general description of button functions.

Key Charts

	Select a device. These keys are preset for Russound devices, but can be re-programmed (see "Programming a Device"). S1= Russound Tuner 1 S2= Russound Tuner 2 S3= Russound SMS3 Stream 1 S4= Russound SMS3 Stream 2
	Turn the selected zone on or off.
	Program sequences.
	Select next/previous. Select the next/previous chapter on some models of DVD players. Press LAST to recall the last-viewed channel.
	Raise or lower the sound level. Press MUTE to turn the sound off or on.
	Move the cursor in the menu screens.
	Press OK to choose the high-lighted menu option. Performs "Enter" function for devices.
	Press Enter to choose the high-lighted menu option. Performs "OK" function for devices.
	Skip backward, rewind, fast forward, skip forward, stop pause, or play tracks on disc.

	Use Page Up/Down with cable or satellite boxes. Note: May have to learn in these functions.
	View the current channel and program information.
	Display the menu for the selected device.
	Exit the selected device's menu, guide, or program without making a menu selection.
	Display the program guide for the selected device.
	Change inputs on selected device. To change inputs on CAS44 use S1 - S4 buttons.
	Press LAST once to recall the last channel and to page back one screen in the main menu.
	Directly enter channels (e.g., 09 or 31). Press OK to send channel number entries on some TV models.

INSTALLING BATTERIES

- On the back of the CAS-RC, push the tab and lift off the battery cover.
- Obtain two (2) fully-charged AA alkaline batteries. Match the + and – marks on the batteries to the + and – marks in the battery case, then insert the new batteries.
- Press the battery cover back into place. The tab should click when the cover is locked.
- Test the unit by pressing Power and any mode key. If the batteries are inserted correctly, the LED will blink once.

PROGRAMMING A DEVICE

Note: S1, S2, S3, S4, Vol +/-, Mute and Power are system commands and are the same for any source. All other buttons are dependent upon the device code associated with the source.

Before proceeding, find the codes for the devices you want to program in, under "Manufacturer's Codes" in this manual. To control Universal TV, VCR or DVD, Cable or Satellite Receivers, Amplifier or Tuner, and Auxiliary devices, follow these steps.

- Turn on the device (e.g., DVD player) and if needed, load media.
- Press a device key (S1, S2, S3 or S4).
- Press and hold SET until the red LED blinks twice, then release.
- Enter the first five-digit code for your device. The LED blinks once as each digit is entered. If the code is valid, the LED blinks twice.
- Aim the remote at the device and press a function button. The device should in turn perform the requested function. If it does not, repeat steps 3-5, trying each code for your brand until you find a code that works. If you cannot find a code that works see "Searching for Your Code" in this manual.
- Repeat steps 1-5 for the other devices you want to control. For future reference, write down each working device code.

SEARCHING FOR YOUR CODE

Note: S1, S2, S3, S4, Vol +/-, Mute and Power are the same for any source. All other buttons are dependent upon the device code associated with the source.

If your device does not respond to the remote after trying all codes listed for your brand, or if your brand is not listed, try searching for your code:

- Press a device key once.
- Press and hold SET until the red LED blinks twice, then release.
- Enter 9-9-1, then the device group number (see below). The LED blinks twice.
 - Cable (Cable Converters, Video Accessories, Satellite Receivers)
 - TV (TVs)
 - VCR (VCRs, DVD players)
 - Audio (Audio Amplifiers, Audio Amp/Tuners, CD players)

- Aim the remote at the device and press POWER. The remote sends IR codes from its library to the selected device, starting with the most popular code first. If the device responds, go to step 6.
- If the device does not respond, press CH+. the remote will try the next code. Continue until the device responds. Press CH- to try the previous code.
- Press SET to lock in code. To search for other device codes, repeat steps 1-5.

CHECKING THE CODES

If you have set up the remote using the procedure in "Searching for Your Code," you may need to find out which five-digit code is operating your equipment. For example, to find out which code is assigned to your TV:

- Press the S# key to which the TV is assigned.
- Press and hold SET until the red LED blinks twice, then release.
- Enter 9 9 0. The LED blinks twice.
- To view the code's first digit, press 1. Count the LED blinks (e.g., three blinks =3), and enter the number in the appropriate device list in step 6 of "Programming a Device." If a code digit is 0, the LED does not blink.
- Repeat step 4 for the remaining digits, using 2 for the second digit, and so on.
- To check for other device codes, repeat steps 1-5, using the appropriate S# key.

USING LEARNING

The CAS-RC includes a Learning feature so you can add functions that are unique to your home entertainment devices (e.g., VCR Tracking Up or Down). The following precautions apply:

- The original remote controls must be in working order for learning to work properly.
- Learned keys are mode specific, so each one can store a unique function for each mode.
- Do not use the following keys for learning: Device Keys, SET, BACK, or Record.
- Learning capacity is approximately 40 to 100 keys, depending on the code being learned.
- Certain device codes are not learnable including multi-frequency types, some high frequency ones, and other unusual formats.
- For optimum learning, avoid high levels of ambient light such as natural sunlight or energy-efficient fluorescent lights.
- Have the original remote controls handy before programming learning.

Programming a learned key

Note: If more than 15 seconds pass between key presses, the remote exits programming.

- Press and hold SET until LED flashes twice.
- Press 9 7 5.
- Press a device key once (e.g., S1, S2, S3, S4) to assign a mode for learning.
- Place the CAS-RC head-to-head (about 2" apart) from your original remote control. Also locate the key (on original remote control) that will serve as the teaching function.
- On the CAS-RC, press a key where the learned function will be stored.
- On the original remote, press and hold the key to be learned. The CAS-RC LED will turn off. Continue holding the key on the original remote until the CAS-RC LED blinks twice.

Note: If the LED displays one long blink, a learning error has occurred. Try repeating this step again until a successful capture occurs. If the function is still not captured, press and hold SET to exit programming. Review the learning precautions listed above, or the Troubleshooting tips below, before beginning again at step 1.

- To program another key for the same source, repeat steps 5-6. To program another device, repeat steps 1-6. Press and hold SET to exit programming.
- Deleting a single learning key
 - Select a source.
 - Press and hold SET until the LED flashed twice.

NOTE: If more than 15 seconds passes between key presses, the remote exits programming.

- Press 9 7 6.
- Press the key (twice) containing the learned function to be deleted. The remote blinks twice.
- Repeat steps 2-4 for another key on the same source, or press and hold SET to exit programming.

Deleting all learned keys in a specific mode

- Press and hold SET until the LED blinks twice.

Note: if more than 15 seconds pass between key presses, the remote exits programming.

- Press 9 7 6.
- Press a device key twice (S1, S2, S3, S4) to delete all the learned keys for that mode. The LED blinks twice.
- Repeat steps 1-3 for another set of keys for a device, or press and hold SET to exit programming

TROUBLESHOOTING

Problem: LED does not blink when you press a key.

Solution: Replace battery with two new AA batteries.

Problem: LED blinks when you re-press a key, but device does not respond.

Solution: Make sure the remote is aimed at your device and is not more than 15 feet away.

Problem: LED blinks one long blink.

Solution: An entry error has occurred (e.g., wrong key). Try entry sequence again.

Problem: Remote does not control devices or commands are not working properly.

Solutions: Try all listed codes for the device. make sure the device operates with an infrared remote control.

Problem: Channels do not change properly.

Solution: If the original remote control required you to press ENTER to change channels, press enter on this remote after entering the channel number

ADDITIONAL INFORMATION

The CAS-RC does not have any user-serviceable parts.

Opening the case, except for the battery cover, may cause permanent damage to the CAS-RC.

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MANUFACTURER'S CODES

Setup Codes for Audio Amplifiers

Accuphase	30382
Acurus	30765
Adcom	31100, 30577
Aiwa	30406
AudioSource	30011
Bel Canto Design	31583
Bose	30674
Carver	30269
Classe	31461, 31462
Curtis Mathes	30300
Denon	30160
Durabrand	31561
GE	30078
Harman/Kardon	30892
JVC	30331
Kenwood	30356
Korsun	31483
Left Coast	30892
Lenorxx	31561
Linn	30269
Logitech	31408
Luxman	30165
Magnavox	30269
Marantz	30892, 30321, 30269
Mark Levinson	31483
Nakamichi	30321
NEC	30264
Optimus	30395, 30300
Panasonic	30521, 30308
Parasound	30246
Philips	30892, 30269
Pioneer	30013, 30300
Polk Audio	30892, 30269
PS Audio	31523
RCA	30300
Realistic	30395
Sansui	30321
Shure	30264
Sony	30689, 30220, 30815
Soundesign	30078, 30211
Technics	30521, 30308
Victor	30331
Wards	30078, 30211, 30013
Yamaha	30354, 30143, 30133, 30504
YBA	31502
ADC	30531
Adcom	31616, 30616, 31617
Aiwa	31405, 30158, 30189, 31243, 31089, 31388, 30121, 30405, 31321, 31641, 31347
Akai	30224, 30076, 31512, 31255
Alco	31390
Amphion Media Works	31615, 31563
AMW	31563, 31615
Anam	31609, 31074, 30281
Apex Digital	31430, 31257
Arcam	31120
Audiophase	31387
Audiotronic	31189
Audiovox	31390, 31627
AVLight	30158
Bel Canto Design	31584
Bose	31229, 31253, 30639
Brix	31602
Cambridge Soundworks	31477, 31370
Capetronic	30531
Carver	31189, 30189, 30042, 31089, 30008, 30360
Casio	30195
Clarinette	30195
Classic	31352
Coby	31513, 31389, 31263
Compaq	31136
Criterion	31420
Curtis	31596
Curtis Mathes	30080
Daewoo	31250
Dell	31383
Denon	31360, 30004, 31104, 30771, 31311, 30273, 31142, 30301
Dynamic Bass	30360
Emerson	30424, 30255
Fisher	31409, 30360, 30219, 31801, 30042
Fonmix	31360
Fosgate	31487
Garrard	30424, 30281, 30463, 30146, 30440
Gateway	31517, 31567
GE	31379
Glory Horse	31263
Go Video	31532
GoldStar	30281
GPX	31299
Hafler	30146
Harman/Kardon	30110, 30189, 30891
Hewlett Packard	31181
Hitachi	31801, 31273
Initial	31426
Inkel	30027, 30062, 30502, 30491
Integra	30135, 31298
JBL	30110, 31306, 30281
JVC	30074, 31282, 31263, 31495, 31374
Kansai	30440
Kenwood	31313, 31570, 31569, 30027, 31051, 30077, 30313, 31027, 30042, 30239, 30569, 31052, 30186, 30314
KLH	31412, 31390, 31428
Koss	30424, 30255, 31366
Lasonic	31798, 31510
Lenorxx	31437
Lexicon	31076
Linn	30189
Liquid Video	31497
Lloyd's	30195
LXI	30181
Magnavox	31189, 31269, 30189, 30128, 30391, 30195, 31089, 31514, 30531
Marantz	31189, 31269, 30039, 30189, 31089, 31289, 30200, 30128
MCS	30039, 30346
Memorex	31596
Mitsubishi	31393
Modulaire	30195
Muscmagic	31089
NAD	30320
Nakamichi	30347, 30097, 31555
NEC	30235
Norcent	31389
Onkyo	30135, 31298, 30842, 30380, 31531
Optimus	31023, 30801, 31074, 30080, 30186, 30531, 30797, 30042, 30181, 30440, 30738, 30849, 30177, 30219, 30670
Oritron	31497, 31366
Panasonic	31518, 30039, 31548, 31764, 30518, 31350, 31763, 30367, 31316, 31509, 31633, 30309, 31288, 31363
Penney	30195
Philco	31390
Philips	31189, 31269, 30189, 31365, 31089, 31266, 31283, 30891, 31368, 30391, 31120, 31268
Pioneer	31023, 30150, 30630, 31184, 30080, 30531, 31084, 31384, 30244, 31343
Polaroid	31508
Polk Audio	30189, 31289
Proscan	31254
Qisheng	31609, 31390
Quasar	30039
RadioShack	31263
RCA	31023, 31609, 31254, 30346, 30531, 31154, 31511, 30080, 30530, 31074, 31390, 30054, 30360
Realistic	30195, 30181, 30163
Regent	31437
Rio	31869, 31383
Russound Tuner1	31493
Russound Tuner2	31494
Saba	31519

Setup Codes for Audio Amp/Tuners

Samsung	31500, 31295
Sansui	30189, 30346, 30193, 31089
Sanyo	30801, 30360, 31469, 30219, 31251
Scott	30163, 30322
Sharp	31286, 30186, 31386, 31361
Sharper Image	31545, 31556, 30797, 31409, 31416, 31549, 31385, 31411, 31546, 31723, 31263, 31410
Sherwood	30491, 31423, 30062, 31077, 30502, 31653
Shinco	31390
Shinsonic	31426
Silsonic	30176, 31426
Sonic	30281
Sonic Blue	31383, 31869, 31532
Sony	31058, 31441, 31258, 31759, 30158, 31442, 31529, 31758, 31371, 31503, 31042, 31658, 31158, 31858, 31367, 31406, 31458, 30168, 31558, 31131, 31349, 31382
Soundesign	30670
Stereophonics	31023
Sunfire	31313, 30314, 30313, 31052
Tae Kwang	30440
Teac	30163, 31267, 31074, 31528, 30463, 31390
Technics	31308, 31518, 30039, 30518, 30309, 31309, 30208
Techwood	30281
Thorens	31189
Venturer	31390, 30849
Victor	30074
Wards	30158, 30189, 30080, 30054
Yamaha	30176, 30081, 31176, 31375, 30186, 31331, 31276
Yorx	30195
Zenith	31293, 30857, 30281, 31869

Setup Codes for Cable Converters

ABC	00003, 00008, 00014, 00001, 00007, 00013, 00011, 00017
Allegro	00315, 00153
Americast	00899
Antronix	00207, 00022
Archer	00797, 00207, 00153, 00022
Belcor	00056
Bell & Howell	00014
Bell South	00899
Cable Star	00056
Cabletenna	00022
Cableview	00022
Century	00153
Citizen	00315, 00153
Clearmaster	00883
ClearMax	00883
Colour Voice	00025, 00031
Comtronics	00040
Contec	00019
Coolmax	00883
Daeryung	01877, 00877, 00477, 00008
Digi	00637
Director	00476
Dumont	00637
Eastern	00002
Emerson	00797
Everquest	00040, 00015
Focus	00400
Funai	00019
Garrard	00153
GC Electronics	00207, 00056
Gehua	00476
Gemini	00797, 00015
General Instrument	00476, 00810, 00276, 00003, 00014, 00011, 00015
Global	01327
GMI	00015, 00797
GoldStar	00144, 00040
Goodmind	00797
Hamlin	00009, 00273, 00034, 00020, 00259
Hitachi	00014, 00011
Hytex	00007
Jasco	00015, 00315, 00153
Jebsee	00400
Jerrold	00476, 00810, 00276, 00003, 00012, 00014, 00011, 00015
Leon	00015
LG	00144, 00040
Linsay	00440
Magnavox	00027
Memorex	00000
Motorola	00476, 00810, 00276, 01254, 01106, 01376
Movie Time	00156, 00063
MS	00015
MultiVision	00012
Novaplex	00618
NSC	00063, 00156
Oak	00019, 00007
Optimus	00021
Pace	01877, 00237
Panasonic	00000, 00008, 00107, 00040, 00021
Panther	00637
Paragon	00000
Philips	00317, 00027, 00025, 00153, 00013, 00031, 01305
Pioneer	01877, 00877, 00144, 00533, 01021

Popular Mechanics	00400
Pulsar	00000
Quasar	00000
RadioShack	00015, 00883, 00797, 00315
RCA	00021
Realistic	00207
Reccoton	00400
Regal	00279, 00273, 00259, 00020
Regency	00002
Rembrandt	00011
Runco	00000
Samsung	00000, 00144, 00040

Initial	2017, 21931
Integra	20627, 21924
Jamo	22003
Jaton	21078
JBL	21926, 20702
Jensen	21016
JVC	20558, 20623, 21940, 21901, 20867
jWin	21051, 21049
Kenwood	20490, 20534, 21063, 20682
KLH	20717, 21939, 21149, 21020
Konka	20720, 20719, 20711, 20721
Koss	20651
Landel	20826
Lasonic	20798, 21173
Lenoxx	21938
LG	20801, 20101
Liquid Video	21980
Lite-On	21158, 21058
Loewe	20511
Magnavox	20503, 20675, 21976, 21914, 20821
Malata	21159, 20782
Marantz	20539
Memorex	20695
Microsoft	20522
Mintek	20839, 20717
Mitsubishi	21521, 20521
Momitsu	21082
NEC	20785
Nesa	20717
Next Base	20826
Niro	22024
Norcent	21003, 20872, 21923, 21107
Onkyo	20503, 20627, 21924, 20792, 21985
Oritron	20651, 21980
Panasonic	20490, 21462, 21907, 21910, 21990, 21362, 21762, 21909, 21986, 20632, 21490, 21908, 21925, 22017

Philco	22000
Philips	20503, 20539, 20646, 20885, 20854, 21914
Pioneer	20525, 20571, 20638, 20632, 20631, 21902
Polaroid	21086, 21061, 21998, 21200
Polk Audio	20539
Portland	20770
Prima	21016
Princeton	20674
Proscan	20522
ProVision	20778
Qwestar	20651
RCA	20522, 20571, 20717, 20822, 21193, 21974, 21132, 21965, 21022, 21913

Regent	21938
Rio	20869
Rotel	20623
Rowa	20823
Saba	21977
Sampo	20752, 20698
Samsung	20490, 20573, 20820, 21932, 21075, 20899, 21979
Sansui	20695
Sanyo	20695, 20670, 21967, 20873
Sharp	20630, 20752
Sharper Image	21995, 21117

Sherwood	21043, 20770, 20633, 21077
Shinco	20717
Shinsonic	20533, 20839, 21931
Sigma Designs	20674
Sonic Blue	20869, 21970, 21099
Sony	20533, 21533, 20864, 21033, 21904, 22020, 21903, 21981, 20772, 21934

Sungale	21074
Superscan	20821
SVA	20717, 20860, 21105
Sylvania	20821, 20675
Symphonic	20675
Teac	21984, 20809
Technics	20490
Technosonic	20730
Techwood	20692
Terapin	21031
Theta Digital	20571
Tivo	21996
Toshiba	20503, 21154, 22006, 21045, 21996, 20695, 21988
Tredex	20803, 20800, 20799, 20804
TYT	20705
Urban Concepts	20503
US Logic	20839
V Inc.	21226, 21064
Vocopro	21027
Xbox	20522
Xwave	21001
Yamaha	20490, 20539, 20545
Zenith	20503, 20591, 21906, 20869, 22002

Setup Codes for Satellite Receivers

AlphaStar	00772
Chaparral	00216
Crossdigital	01109
DirecTV	00392, 00566, 00639, 01639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01109, 00099, 01444, 01108, 01392, 01443, 01640, 01442, 01414
Dish Network System	01005, 00775, 01775, 01505, 01170

Dishpro	01005, 00775, 01505, 01775
Echostar	01005, 00775, 01170, 01775, 01505
Expressvu	00775, 01775
Funai	00338
GE	00566
General Instrument	00869
GOI	00775, 01775
Goodmans	01246
Hisense	01535
Hitachi	00819, 01250, 00214, 00491, 00489, 00201
HTS	00775, 01775
Hughes Network Systems	01142, 00749, 01749, 01443, 01442, 01444

I-Lo	01535
JVC	00775, 01170, 00492, 01775
LG	01414, 01226
Magnavox	00724, 00722
Matsushita	00340, 00214, 00500
Memorex	00724
Mitsubishi	00749, 00491
Motorola	00869
NEC	00496, 01270
Next Level	00869
Panasonic	00247, 00701, 00214, 00500, 00340
Paysat	00724
Philips	01142, 00749, 01749, 00724, 01076, 00722, 00099, 01442

Proscan	00392, 00566
Proton	01535
RadioShack	00869
RCA	00392, 00566, 00855, 00143, 01392
Samsung	01276, 01109, 01108
Sanyo	00493, 01219
Sharp	00494
SKY	00856
Sony	00639, 01639, 00294, 01640, 00163
Star Choice	00869
Tivo	01142, 01444, 01443, 01442
Toshiba	00749, 01749, 00790, 00486, 01285
UltimateTV	01392, 01640
Uniden	00724, 00722
US Digital	01535
USDTV	01535
Victor	00492
Voom	00869
Zenith	00856, 01856

Setup Codes for TVs

888	10264
A-Mark	10003
Abex	10032
Addison	11150, 10653, 10092
Admiral	10093, 10463
Advent	10761, 10817, 10815, 11933, 10783, 10842
Adventura	10046
Aiko	10092
Aiwa	11914, 11910
Akai	10812, 10702, 10030, 10672, 11903, 10264
Alaron	10179
Albatron	10843, 10700
Ambassador	10177
America Action	10180
Ampro	10751
Anam	10250, 10180, 10003, 10700, 10161, 10628
Anam National	10250, 10161, 10055, 10650
Anhua	10051
AOC	10451, 10093, 10180, 10060, 10030, 10178, 10019, 10185, 11150, 10018, 10052, 10474, 10003, 10092, 10179

Aolinpike	10264
Apex Digital	10748, 10765, 10767, 11943, 10879
Archer	10003
Audiovox	10451, 10180, 10875, 11952, 10802, 11951, 10092, 10623, 11937, 10003
Axion	11937
Baihe	10264
Baile	10001, 10391
Baohuashi	10264
Baosheng	10817
Beijing	10812, 10391, 10264, 10817, 10001
Belcor	10019
Bell & Howell	10154, 10016
BenQ	11032
Bradford	10180
Brockwood	10019
Broksonic	10236, 10463, 11911, 11938, 10003, 11905, 11935, 11929

Caihong	10817
Cailling	10748
Candle	10030, 10046, 10186, 10056
Carnivale	10030
Carver	10054, 10170
Celebrity	10000
Celera	10765
Changcheng	10051, 10817, 10001, 10391, 10264
Changfei	10817
Changfeng	10817, 10264
Changhai	10817
Changhong	10156, 10765, 10817, 10264, 10783, 10767, 11910
Chengdu	10817
Ching Tai	10003, 10474, 10179, 10092

Chun Yun	10000, 10180, 10161, 10474, 11150, 10092, 10843, 10003, 10179, 10700
Chunfeng	10264
Chung Hsin	10180, 10053, 11150, 10036, 10474
Chunssun	10817
Cinema	10672
Citizen	10060, 10030, 10039, 10280, 10056, 10186, 10046, 10092, 11928
Clairtone	10185
Clarion	10180
Colt	11906
Concerto	10056
Conrowa	10156, 10145, 10264
Contec	10180, 10157, 10185
Craig	10180, 10161
Crosley	10054
Crown	10180, 10039
Curtis Mathes	10047, 10054, 10154, 10451, 10093, 10060, 10702, 10030, 10145, 10166, 10466, 11347, 10039, 10056, 11147, 10016, 11919

CXC	10180
Daewoo	10154, 10451, 10180, 10030, 10178, 11661, 10474, 10003, 10628, 0032, 11150, 10092, 11928, 10627, 10700, 10056, 11909, 10170, 10391, 10623, 10019, 10672, 10039
Daytron	10019
Dayu	10391
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