



TokensByGEN

BINANCE SMART CHAIN

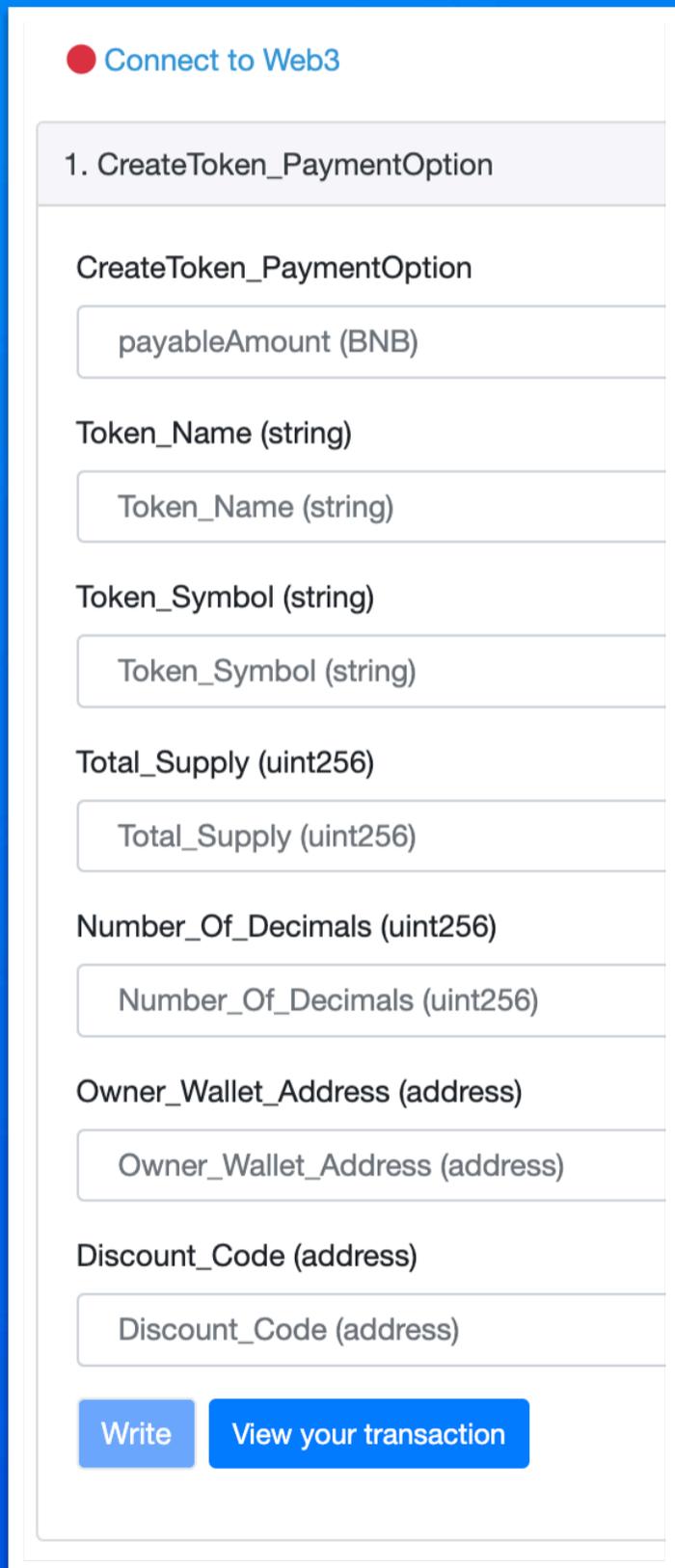
# BSC BEP20 TOKEN GUIDE

Step-by-Step Deployment Guide

## STEP ONE - CREATE YOUR TOKEN

From the [TokensByGEN](#) website, choose which token you'd like to create and click on the button to access the token factory on BSCScan.

Click on 'Connect to Web3' to connect your wallet.



The screenshot shows a form titled "Connect to Web3" with a red dot icon. The form is divided into sections. The first section is "1. CreateToken\_PaymentOption". Below this, there are several input fields, each with a label and a placeholder text: "CreateToken\_PaymentOption" (placeholder: payableAmount (BNB)), "Token\_Name (string)" (placeholder: Token\_Name (string)), "Token\_Symbol (string)" (placeholder: Token\_Symbol (string)), "Total\_Supply (uint256)" (placeholder: Total\_Supply (uint256)), "Number\_Of\_Decimal (uint256)" (placeholder: Number\_Of\_Decimal (uint256)), "Owner\_Wallet\_Address (address)" (placeholder: Owner\_Wallet\_Address (address)), and "Discount\_Code (address)" (placeholder: Discount\_Code (address)). At the bottom of the form, there are two buttons: "Write" and "View your transaction".

### Payment Option

Enter 1 to pay 1BNB upfront, or enter 0 to pay nothing upfront and have a 1% fee in your contract (can be removed later for 2BNB)

### Token Details

Enter the basic details for your token, you'll be able to set fees and wallet limits etc. later.

### Owner Wallet

Enter your BSC wallet address here. Your token will be deployed into this wallet.

### Discount Code

If you have been given a discount code enter it here, if not enter your BSC wallet address

Click 'Write', pay the gas fee, then click on the 'View your transaction' button that appears.

STEP TWO - GET YOUR CONTRACT ADDRESS

Success

16456755 3 Block Confirmations

25 secs ago (Mar-28-2022 04:02:57 PM +UTC)

0xd05895edf847e1712721cc9e0427aa26289a6bc5

Contract 0xf4e2429f97b637216f5cba531811baf61cc8e1cf

From Null Address: 0x00... To 0xd05895edf847e... For 1,000,000 TEST\_TOKEN (TEST)

0 BNB (\$0.00)

0.030959445 BNB (\$13.53)

Wait for the transaction to mine, then click here.  
On the next page, click here.

Profile Summary

Contract: 0x1c68cdb438b2925d64347e81163bc4b41e60511f

Decimals: 9

Social Profiles: Not Available, Update ?

Copy and paste your Contract Address!

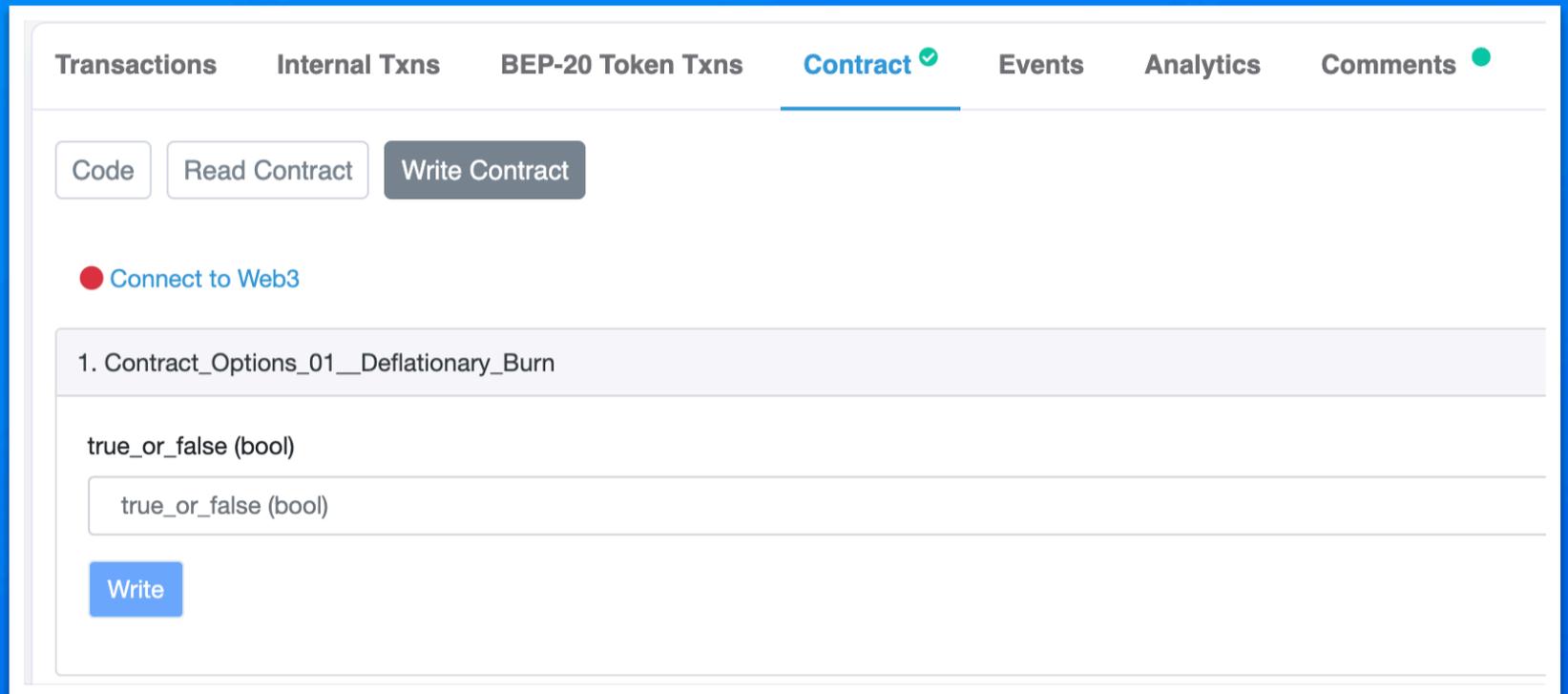
BscScan  
A product of Etherscan

BNB: \$437.17 (+4.44%)

Contract 0x1c68cdb438b2925d64347E81163bc4b41E60511f

## STEP THREE - ACCESS YOUR CONTRACT

Scroll down to the page, and select 'Contract' from the menu, then click on 'Write Contract' and Connect to Web3



This is your contract 'Write' page. It's where you set up your contract and update the functions. You need to connect with the wallet that you set as the owner.

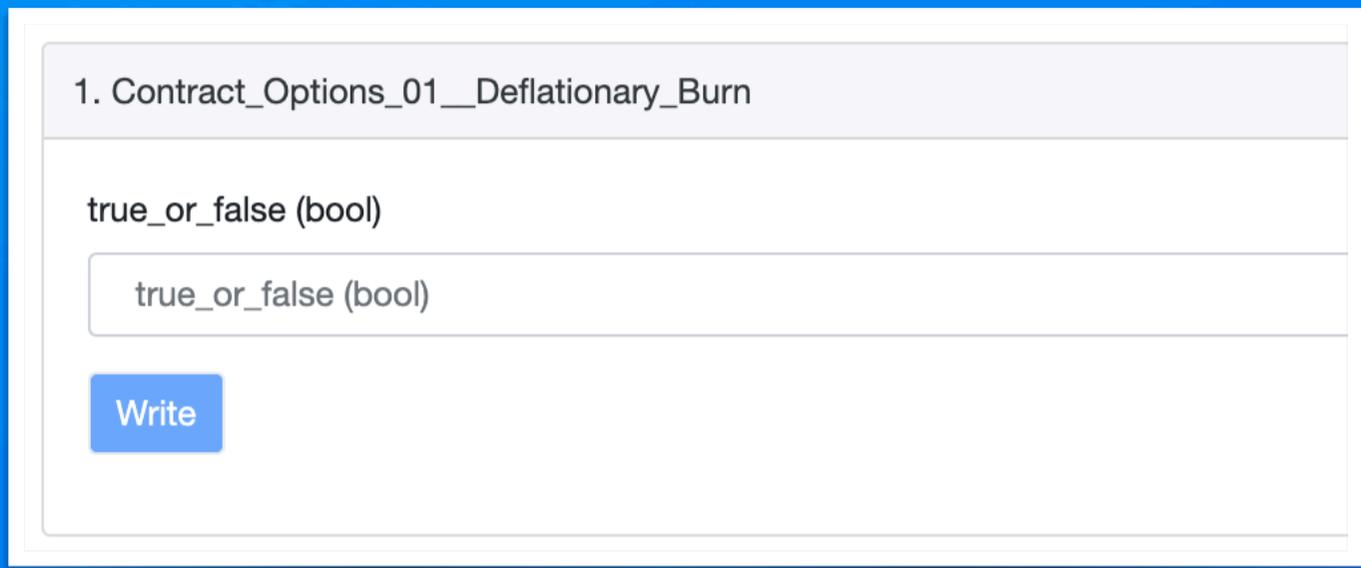
When entering true or false into a function it must be all in lowercase.

On rare occasions, the read and write page do not show as expected. When this happens, the only way to fix it is to wait. Just have a break and come back later. The page usually shows up within 15 to 30 minutes if it doesn't show instantly.

On one occasion I had to wait 2 days before the page showed correctly. This was during a very volatile period when the blockchain was extremely busy.

The only way to fix this problem is to wait, and refresh the page.

## STEP FOUR - SET UP YOUR CONTRACT



The screenshot shows a web interface for configuring a contract. At the top, the title is "1. Contract\_Options\_01\_\_Deflationary\_Burn". Below the title, there is a label "true\_or\_false (bool)". Underneath the label is a text input field containing the text "true\_or\_false (bool)". At the bottom left of the form area, there is a blue button labeled "Write".

Default: false

This affects tokens sent directly to burn, and the burn fee options.

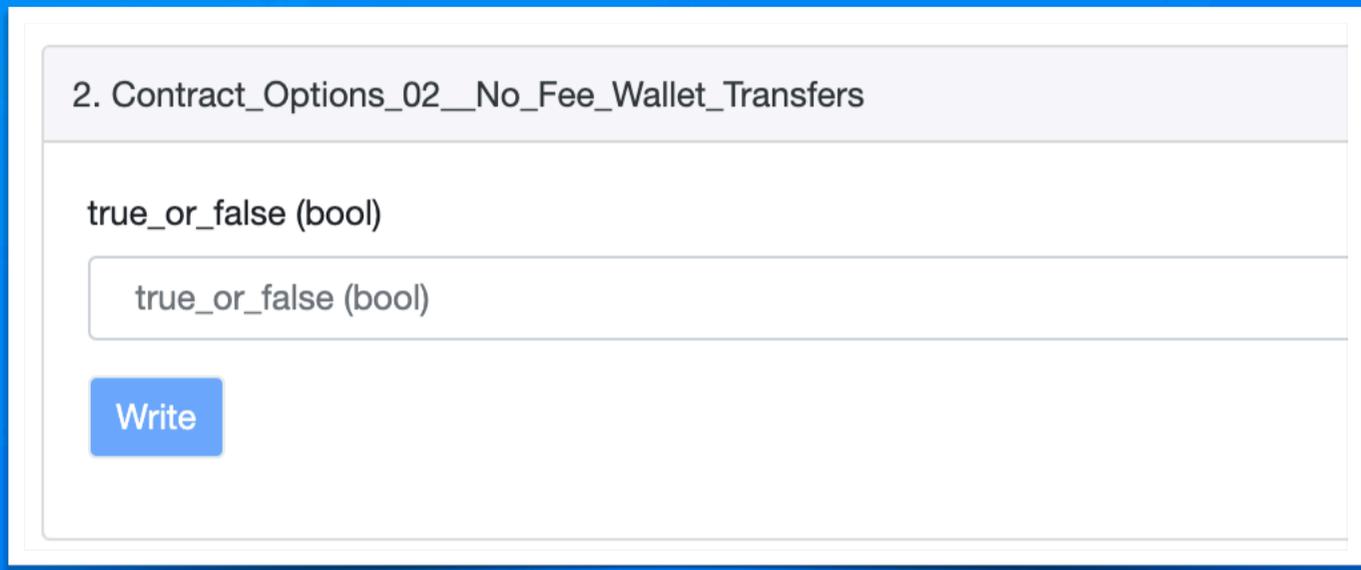
If you change this to true, when tokens are burned they are removed from the senders balance and removed from the total supply. They do not arrive in the burn wallet.

When this is set to false, any tokens sent to the burn wallet will not be removed from total supply and will be added to the burn wallet balance. (This is how 99% of contracts work, even ones that 'think' they are deflationary!)

A truly deflationary burn can be confusing to some token tools and listing platforms, so only set this as true if you understand the implications.

A deflationary burn will not instantly increase the value of other tokens, but it will help with token stability over time.

## SET UP YOUR CONTRACT - CONTINUED



The screenshot shows a configuration window for a contract option. The title bar reads "2. Contract\_Options\_02\_\_No\_Fee\_Wallet\_Transfers". Below the title bar, there is a label "true\_or\_false (bool)". Underneath the label is a text input field containing the text "true\_or\_false (bool)". At the bottom left of the configuration area, there is a blue button labeled "Write".

Default: true

If doing a presale, leave this on true until after the presale is finalised.

By default, there is no fee on wallet-to-wallet transfers. This features is very useful for utilities where your token is used as a form of payment in place of fiat.

However, it does have a drawback. In order for this to work, we must tell the contract the address of all liquidity pairs for your token. Anybody can create a new liquidity pair, So you can't have no-fee on wallet transfers if you plan to renounce.

If somebody created a new liquidity pair after you renounce, people would be able to trade tokens via that pair without paying a fee.

For this reason, if you plan to renounce, set this as false.

When set to false, all wallet transfers are charged according to the fees set on buys.

## SET UP YOUR CONTRACT - CONTINUED

### 3. Contract\_SetUp\_01\_\_Fees\_on\_Buy

BNB\_on\_BUY (uint256)

Liquidity\_on\_BUY (uint256)

Reflection\_on\_BUY (uint256)

Burn\_on\_BUY (uint256)

Tokens\_on\_BUY (uint256)

If doing a presale, do not set fees until after the presale is finalised. To protect buyers, fees are limited to 20% max (Includes 1% contract fee option)

BNB: Pays to an external wallet in BNB (Disclose on your website how you will use these funds).

Liquidity: Adds liquidity, which increases stability.

Reflection: (if applicable) Pays existing holders rewards in your token.

Burn: Tokens are removed from supply, or sent to the burn address, depending on your deflationary setting.

Tokens: Similar to a 'marketing' wallet but pays in tokens, not BNB. Useful for giveaways, paying team etc.

## SET UP YOUR CONTRACT - CONTINUED

5. Contract\_SetUp\_03\_\_Wallet\_Limits

Max\_Tokens\_Per\_Transaction (uint256)

Max\_Total\_Tokens\_Per\_Wallet (uint256)

[Write](#)

If doing a presale, do not set the transaction limits until after setting up your presale.

Transaction and wallet limits are set in tokens.

I recommend that you set these to 1% of your total supply, so if your total supply is 1,000,000 tokens enter 10000.

If your contract has reflection rewards, these can push a holder over the max wallet limit.

## SET UP YOUR CONTRACT - CONTINUED

### 6. Contract\_SetUp\_04\_\_Set\_Wallets

Token\_Fee\_Wallet (address)

BNB\_Fee\_Wallet (address)

Liquidity\_Collection\_Wallet (address)

By default, all project wallets are set to the owner wallet, but you can update them here.

The token and BNB wallets are like marketing wallets. You should disclose how you are using these on your website.

When your contract creates auto liquidity, tokens called Cake LP are sent to the Liquidity collection wallet, these will build up over time and need to be locked periodically.

(If you change one field, you need to update the others too.)

## SET UP YOUR CONTRACT - CONTINUED

### 7. Contract\_SetUp\_05\_\_Update\_Socials

Website\_URL (string)

Telegram\_URL (string)

Liquidity\_Locker\_URL (string)

[Write](#)

To help people find your project, and increase buyer confidence, enter your website address, Telegram group, and the URL for your liquidity locker here.

You don't have your Liquidity locker URL yet, so you'll need to come back and update this information later.

When updating one address, you will need to re-enter the other two.

## SET UP YOUR CONTRACT - CONTINUED

8. Contract\_SetUp\_06\_\_PreSale\_Wallet

PreSale\_Wallet\_Address (address)

[Write](#)

If you are doing a presale, the presale company will give you an address to whitelist. Enter the address here.

This will give them prelaunch access to your token and remove the transaction limits and fees.

Once you have added the presale address here, you can go back and set your fees and wallet limits.

## SET UP YOUR CONTRACT - CONTINUED

9. Launch\_Settings\_01\_\_Blacklist\_Bots

Wallet (address)

true\_or\_false (bool)

NOTE: If you are launching via a platform like PinkSale, you can not prevent people from purchasing tokens on their platform. If you blacklist somebody that has purchased tokens via a 3rd party launchpad it will not be possible to finalise your launch. Only use the blacklist feature if you are managing your own launch.

This function can be used to blacklist wallets before you open trade. To protect your investors, you can not blacklist people once trade is open.

Use this function to blacklist bot users. You can check the [pocoin sniper watcher tool](#) to see active bots, or look at transactions on recently deployed contracts.

You can un-block wallets by setting the value to false. Un-blocking can be done before or after opening trade.

A blacklisted wallet can not buy, sell, or transfer your token. If they are holding it, it will be trapped in their wallet forever.

## SET UP YOUR CONTRACT - CONTINUED

10. Launch\_Settings\_02\_\_Set\_Launch\_Limits

Launch\_Buy\_Delay\_Seconds (uint256)

Launch\_Buy\_Delay\_Seconds (uint256)

Launch\_Transaction\_Limit\_TOKENS (uint256)

Launch\_Transaction\_Limit\_TOKENS (uint256)

Launch\_Phase\_Length\_Minutes (uint256)

Launch\_Phase\_Length\_Minutes (uint256)

Write

These settings only apply during the launch phase of your token. They help to create a safer and fairer launch.

The buy delay is set in seconds. This is the time someone needs to wait between buys. I recommend 15 to 20 seconds.

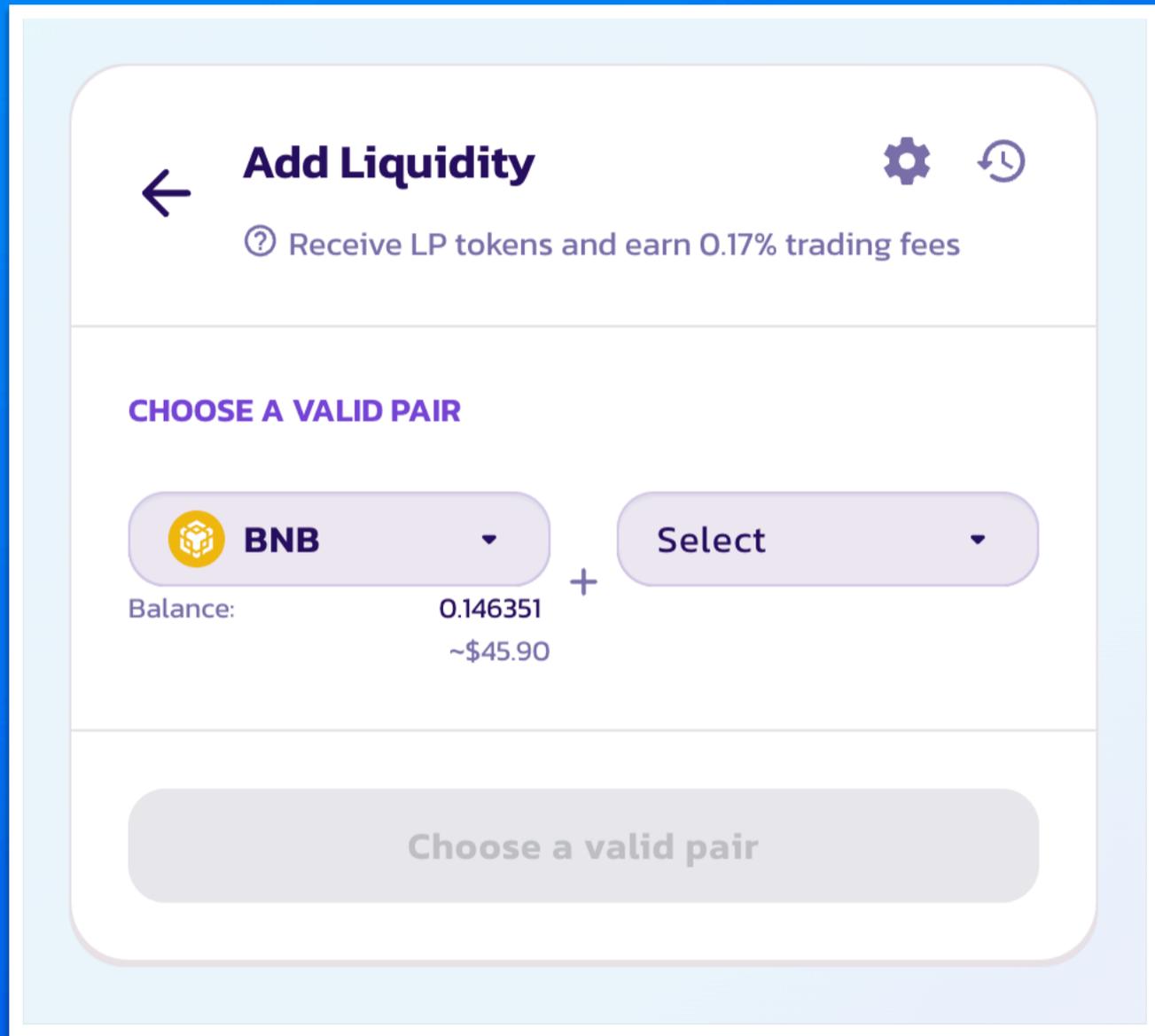
The transaction limit is set in tokens. It's a good idea to set this to 50% of your normal transaction limit. So using our example from before, that would be 5000.

The launch phase is set in minutes. I recommend 5 minutes.

These settings prevent the first buyer getting a max wallet for the cheapest price. They have to buy twice and the delay timer gives other people a chance to buy.

## STEP FIVE - ADD LIQUIDITY

If you are doing a pre-sale the pre-sale company should add your liquidity for you, but if you need to add it manually, follow these steps. To add your liquidity go to <https://pancakeswap.finance/add/BNB>



Connect your wallet, then click on 'Select' and paste in your contract address. PancakeSwap often change the appearance of their website so it might not look exactly like this.

Your initial liquidity pair must be with BNB. You can add other pairs later if you want to.

## ADD LIQUIDITY - CONTINUED

Wait for the yellow box that says you are the first liquidity provider, then add your BNB and tokens. This will set the initial price of your token.

Even if you want to keep some tokens back for your team etc. I recommend adding 100% of your supply, then buying some tokens back using the owner wallet before you open trade.

This will help to increase the stability of your token, deter bots, and prevent your chart going negative as every token has been paid for and is in circulating supply.

### Caution

When you enter the values, it often resets to 0, or adds an extra 0 when you exit the field. So be absolutely sure that the numbers are what you intended before you submit them.

When you are happy with the price, click on the Enable button, then click on 'Supply' and create the pool.

PancakeSwap will give you a token called 'Cake LP', this represents your liquidity and you need to lock it.

I recommend locking your Cake LP liquidity tokens at <https://dx.app/> for 6 months minimum.

When you have your liquidity locker URL, share it in your Telegram group and update your social links using function 7.

## STEP SIX - SAFE LAUNCH OPTION

This is just a suggestion. It's not normal to launch this way, but I think it's a great option.

You have added liquidity, but your token is not yet live. You have not opened trade. The only wallet that can buy your tokens at this stage is the owner wallet.

When we launched GEN we did something very unique, which really helped to protect the token from bots and prevent dumps.

I added 100% of the tokens to the initial liquidity, then I asked my community who wanted to buy. Those interested in buying at launch sent BNB to the owner wallet.

I used this money to buy as many tokens as I could from PancakeSwap at market value. This increased the price of the token, which deterred bots.

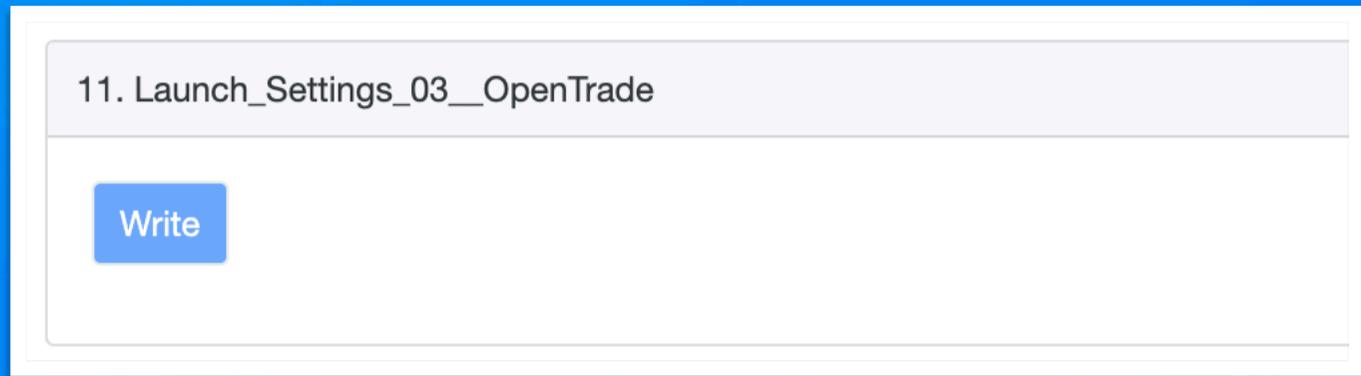
I then airdropped the tokens to the people that has sent BNB. I gave everybody the same price. So nobody 'bought first' and got tokens cheaper than anybody else.

This launch process meant that every token was purchased at market value and put plenty of green candles on the chart, so unlike a presale, if the holders all sold, the chart could not go negative.

Every initial investor got the same price, so we didn't have a 'first buyer' that dumped. You can see this on the GEN chart. It was an incredibly safe and healthy way to deploy a token.

Depending on your community and project, you may like to copy this idea.

## STEP SEVEN - OPEN TRADE!



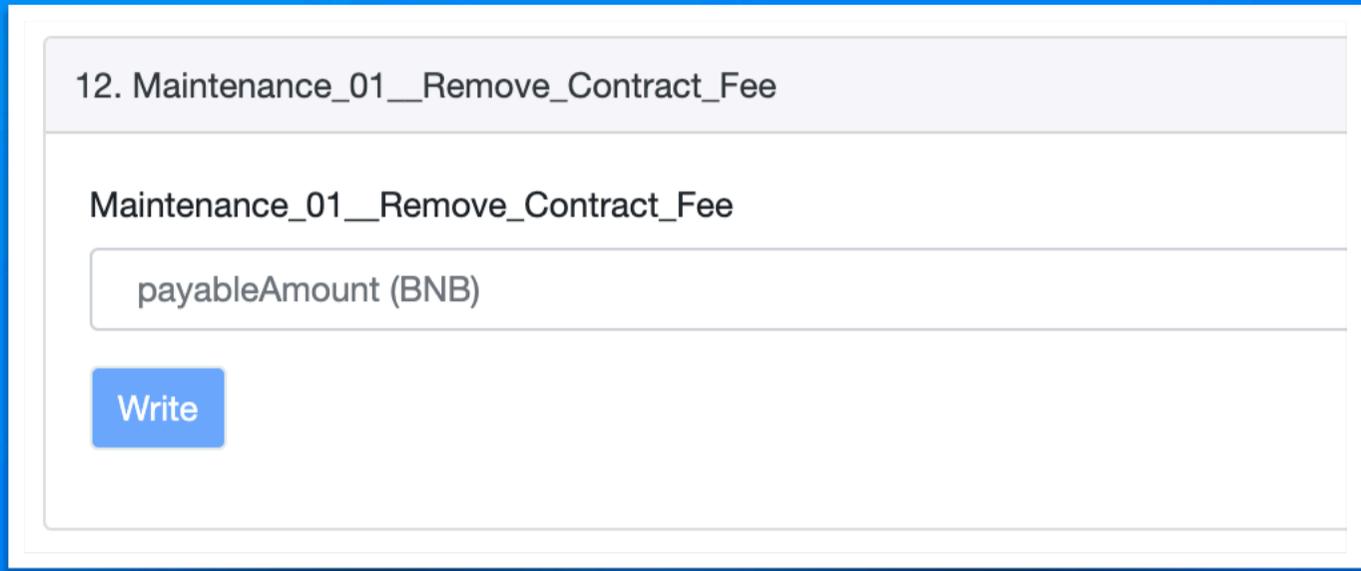
It's time to launch your token!

Click on the button to open trade. To protect your investors, this is a one way switch! Once trade is open, you can not pause your token.

Your token is now live, and people can start buying.

The rest of the guide will cover the remaining functions that you have access to, when you might need to use them and how they work.

## ADDITIONAL CONTRACT FUNCTIONS



12. Maintenance\_01\_\_Remove\_Contract\_Fee

Maintenance\_01\_\_Remove\_Contract\_Fee

payableAmount (BNB)

Write

If you opted to pay nothing when you created your token, your token will have an ongoing 1% fee.

You can remove this fee by paying 2BNB.

To do this, enter the number 2 into this function and click write.

If you renounce your contract, you will lose access to all functions, so be sure to remove the 1% fee before renouncing, otherwise it will be there for the life of your token.

This is the only way to remove the 1% fee. I have no access to change anything on your token.

## ADDITIONAL CONTRACT FUNCTIONS

13. Maintenance\_02\_\_Add\_Liquidity\_Pair

Wallet\_Address (address)

true\_or\_false (bool)

Write

You can add a new liquidity pair via PancakeSwap the same way that you added your initial liquidity.

If you add a new pair, enter the pair address here and set it as true.

This is how the contract identifies buys and sells, as opposed to wallet-to-wallet transfers, so that it can apply the correct fee.

Anybody can add a liquidity pair on any contract. If you renounce you will lose access to this function!

Because a fee is only applied to a liquidity pair once it has been added here, if you plan to renounce, you will need to deactivate the no-fee wallet transfer option. Otherwise your contract will be vulnerable to a potential exploit where a person could create a new liquidity pair and purchase your token without paying fees.

## ADDITIONAL CONTRACT FUNCTIONS

14. Maintenance\_03\_\_Transfer\_Ownership

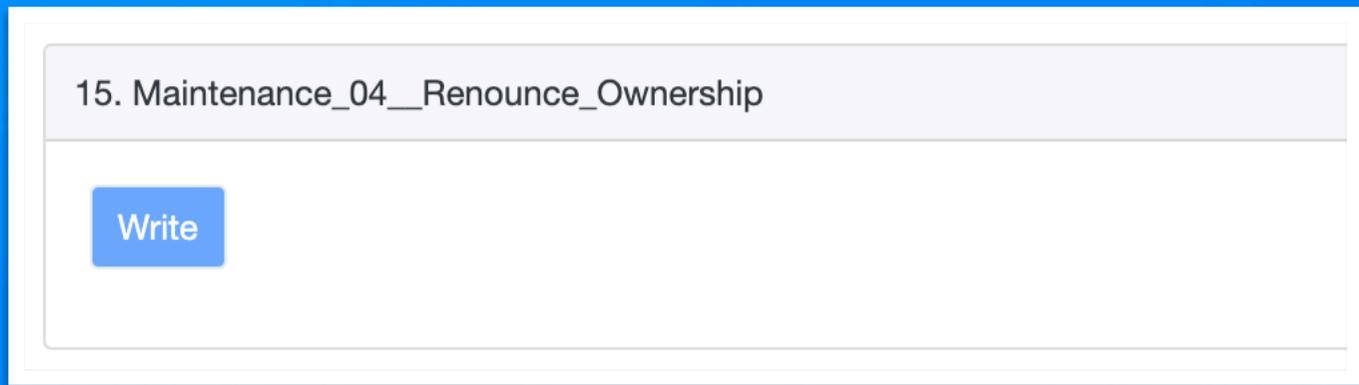
newOwner (address)

Write

To transfer ownership of your token to a new wallet, enter the address here.

The previous owner wallet will no longer be able to access contract functions and will lose all privileges (limit exemption, pre-launch access, and fee exemption).

## ADDITIONAL CONTRACT FUNCTIONS



Renouncing your contract is not recommended.

If you renounce, you will lose access to all functions.

It is not possible to renounce your contract while you have the 'no fee on wallet-to-wallet transfers' option active.

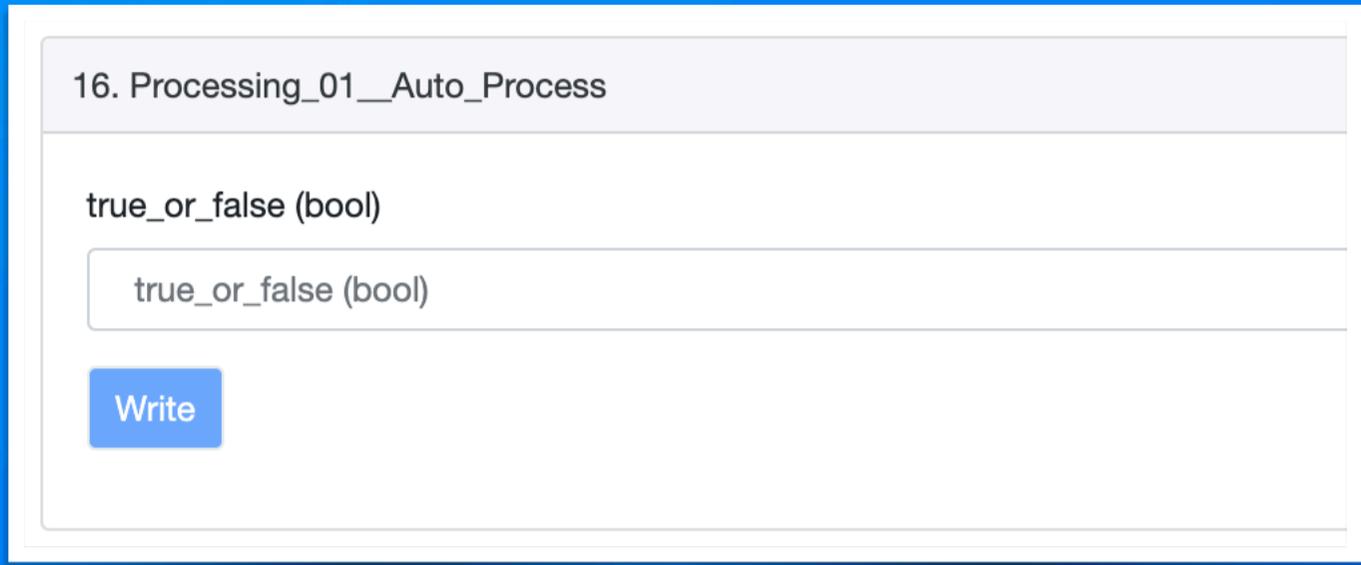
This is to avoid a potential exploit where a person could create a new liquidity pair and use it to purchase tokens without paying a fee.

Previously, renounced contracts were very much sort after as they offered an added layer of security to investors. But recently, it is extremely common for scammers to renounce with a hidden 'back door'.

Today, it's very rare for a genuine project to renounce. It's much more responsible to micro-manage your token, adjusting fees to keep it healthy. Renouncing locks you out of all functions and prevents this possibility.

If you watch new token deployments, almost all renounced tokens are scams. It is no longer a sign of safety. Many investors still prefer a renounced contract, but opinions are slowly shifting.

## ADDITIONAL CONTRACT FUNCTIONS



16. Processing\_01\_\_Auto\_Process

true\_or\_false (bool)

true\_or\_false (bool)

Write

Default: true

When set to true, your contract will process fees automatically.

If you set this to false, the contract will still take fees, but they will accumulate on the contract until you manually process them or set this back to true.

Token, Reflection, and Burn fees are processed immediately during the transaction. This is because they do not need to be sold to BNB.

Liquidity and BNB (marketing) fees need to sell tokens to BNB, which creates a red candle on the chart. So these fees accumulate on the contract and are only processed periodically.

By default, this happens on the next sell after 10 transactions. Fee processing must be triggered by a sell, so when it happens you see 'two sells' on the chart in the same second. The natural sell, and the sell that is required for the processing of fees.

## ADDITIONAL CONTRACT FUNCTIONS

17. Processing\_02\_\_Process\_Now

Percent\_of\_Tokens\_to\_Process (uint256)

Write

Fees collect on the contract as tokens and are sold to BNB when fee processing is triggered.

This process is automatic, but you can manually trigger fee processing at any time using this function.

Enter the percentage of the accumulated tokens you'd like to process.

## ADDITIONAL CONTRACT FUNCTIONS

18. Processing\_03\_\_Update\_Swap\_Trigger\_Count

Transaction\_Count (uint256)

Transaction\_Count (uint256)

Write

Fee processing is automatically triggered on the next sell after 10 transactions.

If you want to change this, so fees are processed more or less frequently, you can update it here.

## ADDITIONAL CONTRACT FUNCTIONS

19. Processing\_04\_\_Remove\_Random\_Tokens

random\_Token\_Address (address)

number\_of\_Tokens (uint256)

Write

If somebody sends tokens to your contract by mistake (it happens more often than you'd expect) you can use this function to remove them.

Enter the contract address of the token and the number of tokens you want to remove.

You'll need to check how many decimals the token has, then add that many 0's to the token amount.

You can not use this function to remove your own token or BNB from your contract.

If a person sends BNB to your contract by mistake, the next time your contract processes fees the BNB will be sent to your BNB wallet (marketing wallet) automatically.

## ADDITIONAL CONTRACT FUNCTIONS

20. Rewards\_Exclude\_Wallet

account (address)

Write

21. Rewards\_Include\_Wallet

account (address)

Write

These two functions only appear if you have opted for a token with reflection rewards. They are used to exclude or include a wallet in rewards.

Excluded wallets are added to an array that the contract needs to loop through. If you exclude too many wallets the loop requires more gas than is available and the contract will break.

Therefore it is important to keep excluded wallets to a minimum.

On reflection contracts, wallets that should be excluded are excluded automatically. You shouldn't need to exclude any others, although some token lockers require this.

## ADDITIONAL CONTRACT FUNCTIONS

22. Wallet\_Settings\_01\_\_PreLaunch\_Access

Wallet\_Address (address)

Wallet\_Address (address)

true\_or\_false (bool)

true\_or\_false (bool)

Write

Prelaunch access is commonly called 'whitelist' it grants a wallet the ability to buy, sell, or transfer tokens before trade is opened.

By default, the owner wallet has this privilege. It is required in order to be able to add liquidity etc.

If you plan to do a private sale then after adding liquidity you can use this function to whitelist wallets so they can buy before you open trade to the public.

## ADDITIONAL CONTRACT FUNCTIONS

23. Wallet\_Settings\_02\_\_Exempt\_From\_Limits

Wallet\_Address (address)

Wallet\_Address (address)

true\_or\_false (bool)

true\_or\_false (bool)

Write

Setting a wallet as true here will make it exempt from transaction and wallet holding limits.

By default, the owner wallet is true, all other wallets are false.

## ADDITIONAL CONTRACT FUNCTIONS

24. Wallet\_Settings\_03\_\_Exclude\_From\_Fees

Wallet\_Address (address)

Wallet\_Address (address)

true\_or\_false (bool)

true\_or\_false (bool)

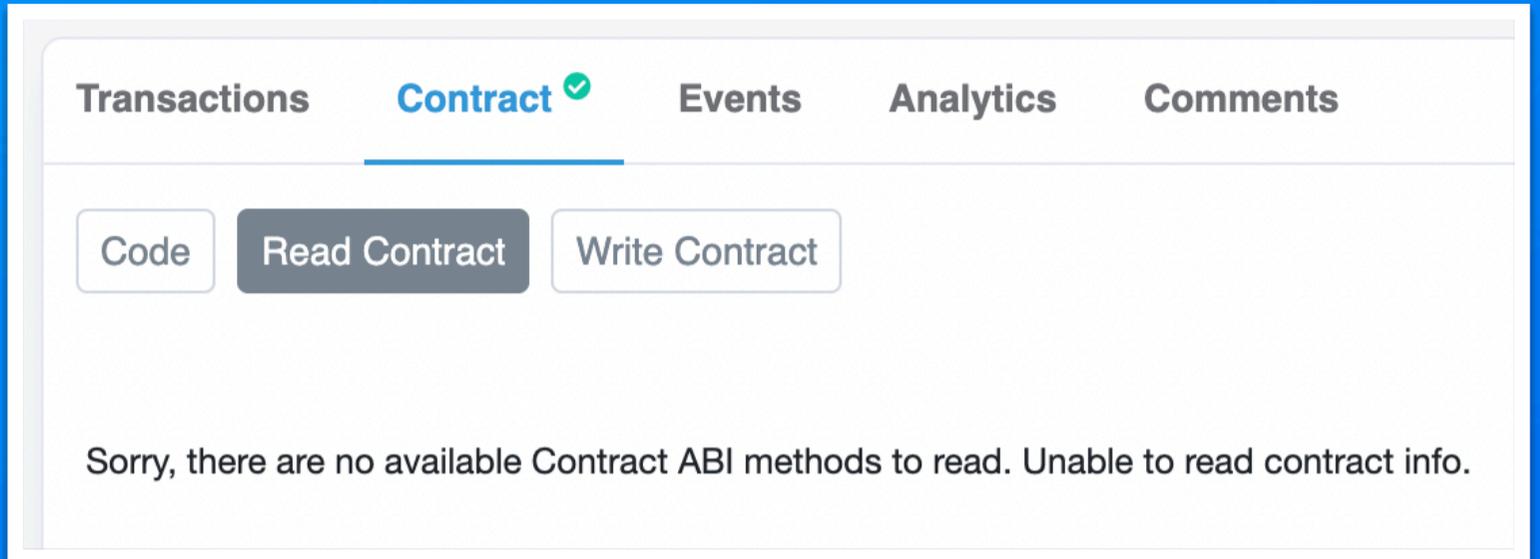
Write

Setting a wallet as true here will exclude the wallet from paying fees when buying or selling tokens.

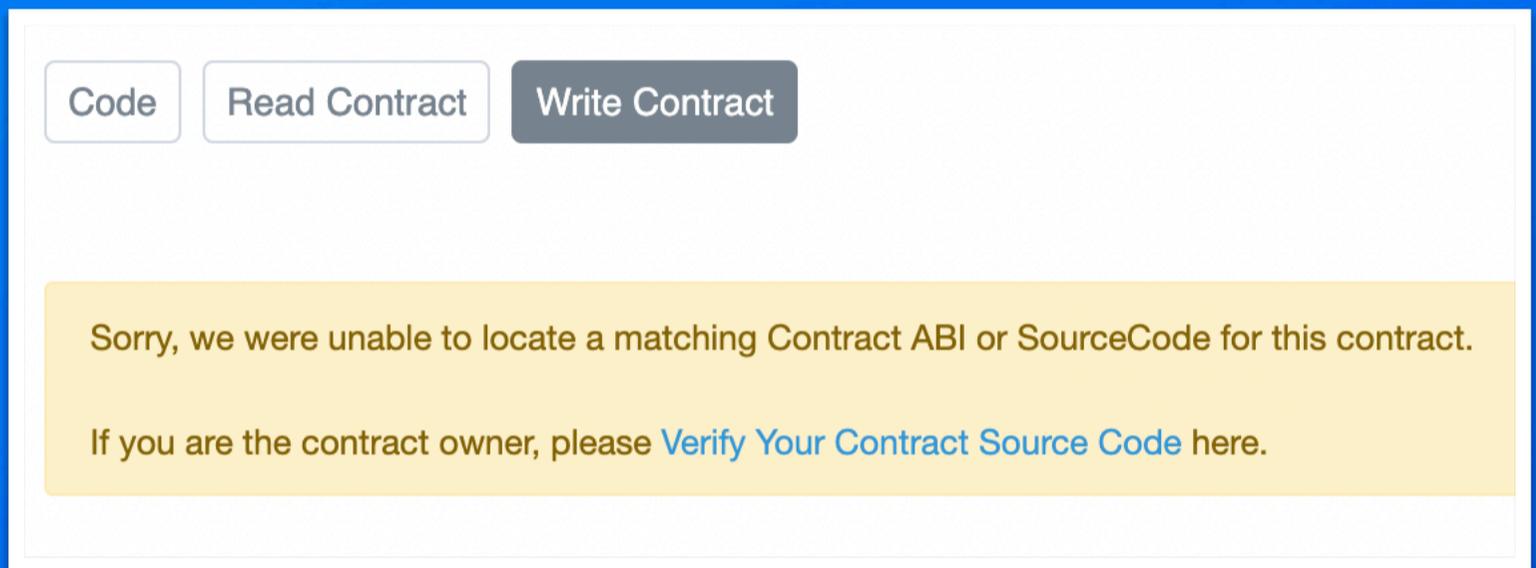
By default, the owner wallet is true, all other wallets are false.

The remaining functions are default function that are required for BEP20 Token Standard compliance. Some of them are used by PancakeSwap etc. but we do not need to cover them here.

## TROUBLESHOOTING



The screenshot shows the 'Contract' tab selected in a navigation menu with a green checkmark. Below the menu are three buttons: 'Code', 'Read Contract', and 'Write Contract'. The 'Read Contract' button is highlighted. Below the buttons, a message reads: "Sorry, there are no available Contract ABI methods to read. Unable to read contract info."



The screenshot shows the same navigation menu and buttons as the previous image. Below the buttons, a yellow error message box contains the text: "Sorry, we were unable to locate a matching Contract ABI or SourceCode for this contract. If you are the contract owner, please [Verify Your Contract Source Code](#) here."

### Read or Write Contract Page Missing

When you arrive at your contract page on BSCScan, you may see the these errors (or a blank page). You need to wait, and refresh the page. It'll usually fix itself in less than 30 minutes, but I have seen this problem persist for 2 days before. **Please do not contact support about this error, the only way to fix it is to wait.**

## TROUBLESHOOTING

### PancakeSwap Can Not Find Token

There is not much that you can do about this error. It's just one of those things that sometimes happens.

You can try to refresh your browser, or use a different browser, or just give it time and come back later.

I've had this happen on a few occasions. Once, PancakeSwap wouldn't find the token in Chrome no matter what I tried, but when I switched to FireFox it found it instantly.

Manually adding the token to your wallet sometimes helps. Although, I believe that when you stumble upon a solution it's more than likely just a coincidence.

Remember that the blockchain is not like running software on your computer. Transactions need to be mined and sometimes things just seem to go wrong for no reason.

Usually, waiting (on rare occasions for a day or more!) is the only thing that fixes an unexpected error.

## TROUBLESHOOTING

### No Trade Button on PooCoin or Flags as HoneyPot

Check that trade is open. Even if you have opened trade, double check it, just in case the transaction did not mine successfully.

Go to the 'Read Contract' page on BSCScan and check that 2. TradeOpen is true. If it is not, go to the Write Contract page, log into web3 and click on function 11. Launch\_Settings\_03\_\_OpenTrade to open trade.

### The PooCoin Test

PooCoin do a 0.01 BNB test. If your liquidity level or transaction limits prevent somebody from buying and selling 0.01 BNB worth of your token PooCoin will disable your trade button.

### The HoneyPot Test

The most common honeypot tool does a 0.1 BNB test. If your liquidity level or transaction limits prevent somebody from buying and selling 0.1 BNB worth of your token then it will flag as a honey pot.

Most tokens fail this test at launch. If you have a 1% transaction limit, you need 10BNB in your initial liquidity to pass the HoneyPot test!

See the next page for solution options.

## TROUBLESHOOTING

### Fix for No Trade Button and HoneyPot Warning

If you increase your transaction limits to allow a person to buy and sell 0.1 BNB worth of your token then it will no longer flag as a honeypot. (Or 0.01 BNB to get the poocoin trade button to work)

But this a very bad idea!

You don't want somebody to buy too much of your supply because it will scare away potential investors.

An alternative solution is to increase the price of your token by purchasing it.

As soon as the token price goes up to the point where it is possible for someone to buy 0.1 BNB worth of your token it will pass the honeypot test. (Or 0.01 BNB for poocoin trade button.

The main cause of this problem is not adding enough liquidity and/or setting your transaction limits too low.



TokensByGEN

## DISCLAIMER

We can accept no responsibility for tokens that are created at TokensByGEN. We do not have any control over who uses our tool and can not vouch for the safety of any token deployed via our website.

In addition, hackers are always looking for ways to exploit code. Some extremely robust and well established projects have been hacked in the past. We have all heard the horror stories of re-entrancy errors and flash loans that have been exploited for millions of dollars.

At the time of development, we have taken every precaution to ensure that TokensByGEN is safe, but in the event of a hack, we accept no responsibility for losses.