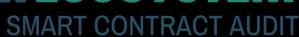
# **SKELETON ECOSYSTEM**



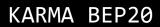




## KARMA \$KA BEP20

OxbaCe72EA23C1a0e9F4c15F92DcF7A9AF71CbA6a3







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### Global Disclaimer

This document serves as a disclaimer for the crypto smart contract audit conducted by Skeleton Ecosystem. The purpose of the audit was to review the codebase of the smart contracts for potential vulnerabilities and issues. It is important to note the following:

Limited Scope: The audit is based on the code and information available up to the audit completion date. It does not cover external factors, system interactions, or changes made after the audit. The audit itself can not guarantee 100% safaty and can not detect common scam methods like farming and developer sell-out.

No Guarantee of Security: While we have taken reasonable steps to identify vulnerabilities, it is impossible to guarantee the complete absence of security risks or issues. The audit report provides an assessment of the contract's security as of the audit date.

Continued Development: Smart contracts and blockchain technology are evolving fields. Updates, forks, or changes to the contract postaudit may introduce new risks that were not present during the audit.

Third-party Code: If the smart contract relies on third-party libraries or code, those components were not thoroughly audited unless explicitly stated. Security of these dependencies is the <u>responsibility of their respective developers</u>.

Non-Exhaustive Testing: The audit involved automated analysis, manual review, and testing under controlled conditions. It is possible that certain vulnerabilities or issues may not have been identified.

Risk Evaluation: The audit report includes a risk assessment for identified vulnerabilities. It is recommended that the development team carefully reviews and addresses these risks to mitigate potential exploits.

Not Financial Advice: This audit report is not intended as financial or investment advice. Decisions regarding the use, deployment, or investment in the smart contract should be made based on a comprehensive assessment of the associated risks.

By accessing and using this audit report, you acknowledge and agree to the limitations outlined above. Skeleton Ecosystem and its auditors shall not be held liable for any direct or indirect damages resulting from the use of the audit report or the smart contract itself.

Please consult with legal, technical, and financial professionals before making any decisions related to the smart contract.



## Overview

Contract Name	\$KA
Ticker/Simbol	\$KA
Blockchain	Binance Smart Chain BEP20
Contract Address	0xbaCe72EA23C1a0e9F4c15F92DcF7A9AF71CbA6a3
Creator Address	0x166a40B87fe34FB1a3D7E8765670E24AC854ad72
Current Owner Address	0×000000000000000000000000000000000000
Contract Explorer	https://bscscan.com/token/0xbace72ea23c1a0e9f4c15f92dcf7a9af 71cba6a3#code
Compiler Version	v0.8.19+commit.7dd6d404
License	MIT
Optimisation	Yes with 200 Runs
Total Supply	210,000,000 <b>\$KA</b>
Decimals	18

## Creation/Audit

Contract Deployed	27.12.2023
Audit Created	13.01.2024
Audit Update	V 1.0

## Verified Socials

Website	https://karmaonbsc.com
Telegram	https://t.me/KARMAONBSC
Twitter (X)	https://twitter.com/KARMAONBSC

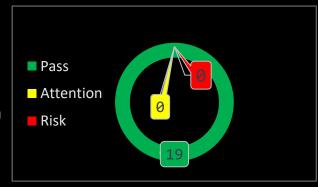


### KARMA BEP20

## Contract Function Analysis

Pass Attention Item 🚹 Risky Item





Contract Verified	<b>✓</b>	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		0x000000000000000000000000000000000000
Buy Tax	5 %	Shows the taxes for purchase transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Sell Tax	7 %	Shows the taxes for sell transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Honeypot Analyse	<b>✓</b>	Holder is able to buy and sell. If honeypot: The contract blocks sell transfer from holder wallet. Multiple events may cause honeypot. Trading disabled, extremely high tax
Liqudity Status 13.01.2024 multiple lockers found	<b>&gt;</b>	<pre>     □ Lp Locked: 27.23% Pinklock for 349 days.     □ Lp Locked: 9.85% Pinklock for 142 days.     □ Lp Locked: 13.35% Pinklock for 77 days.     □ Lp Locked: 7.30% Pinklock for 521 days.     □ Lp Locked: 21.47% Pinklock for 18 days.     □ Lp Locked: 5.08% Pinklock for 354 days.     □ Lp Burned: 14.64% </pre>
Trading Disable Functions	<b>&gt;</b>	No Trading suspendable function found.  If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk). If contract is renounced this function can't be used
Set Fees function	A	Fee Setting function found. Contract renounced, function can not be triggered by owner.  The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).
Proxy Contract	<b>✓</b>	Not a proxy contract!
Mint Function	<b>&gt;</b>	No Mint Function detected  Mint function is transparent or non-existent. Hidden mint functions may increase the amount of tokens in circulation and effect the price of the token. Owner can mint new tokens and sell.



Balance	<b>✓</b>	No Balance Modifier function found.
Modifier Function		If there is a function for this, the contract owner can have the authority to modify the balance of tokens at other
r directon		addresses. For example revoke the bought tokens from the holders wallet. Common form of scam: You buy the token, but
		it's disappearing from your wallet.
Blacklist	<b>✓</b>	No Blacklist Setting function found.
Function		If there is a blacklist, some addresses may not be able to trade normally. Example: you buy the token and right after your Wallet getting blacklisted. Like so you will be unable to sell. Honeypot Risk.
Whitelist Function	A	Whitelist Setting function found. Contract renounced, function can not be triggered by owner.
		If there is a function for this Developer can set zero fee or no max wallet size for adresses (for example team wallets can trade without fee. Can cause farming)
Hidden		No Hidden or multi owner with authorisation
Owner	<b>✓</b>	For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been
Analysis		abandoned.
Retrieve Ownership	<b>~</b>	No Functions found which can retrieve ownership of the contract.
Function		If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also
		known as fake renounce.
Self	<b>✓</b>	No Self Destruct function found.
Destruct Function		If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.
Specific	~	No Specific Tax Changing Functions found.
Tax Changing Function		If it exists, the contract owner may set a very outrageous tax rate for assigned address to block it from trading. Can assign all wallets at once!
Trading	~	No Trading Cooldown Function found. If there is a trading
Cooldown		cooldown function, the user will not be able to sell the token within a certain time or block after buying. Like a
Function		temporary honeypot.
Max	A	Max Transaction and Holding Modify function found. Contract renounced, function can not be triggered by owner.
Transaction and Holding		If there is a function for this, the maximum trading amount
Modify		or maximum position can be modified. Can cause honeypot
Function		
Transaction	<b>✓</b>	No Transaction Limiter Function Found.
Limiting Function		The number of overall token transactions may be limited (honeypot risk)



### Details of Risk - Attention Items

Removing Risk of contract function based on renounced ownership



Following detected contract functions serve as informational purposes about the contract. The owner has no more authorisation to trigger the following functions.

```
oldsymbol{\Lambda} oldsymbol{\mathsf{Set}} oldsymbol{\mathsf{Fee}} (Contract renounced, function can not be triggered by owner.)
```

The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).

```
function setBuyFeePercentages(uint256 _liquidityFee1, uint256 _marketingFee1, uint256 _devFee1)
external onlyOwner()
   _buyLiquidityFee = _liquidityFeef;
   _buyMarketingFee = _marketingFee1;
    _buyDevFee = _devFee1;
   buyFeesBackup = [_buyLiquidityFee, _buyMarketingFee, _buyDevFee];
   uint256 totalFee = _liquidityFeef.add(_marketingFeef).add(_devFeef);
   buyTotalFee = _buyLiquidityFee+_buyMarketingFee+_buyDevFee;
   require(totalFee<=250, "Too High Fee");</pre>
function setSellFeePercentages(uint256 _liquidityFee1, uint256 _marketingFee1, uint256 _devFee1)
external onlyOwner()
   _sellLiquidityFee = _liquidityFee1;
   _sellMarketingFee = _marketingFee1;
   _sellDevFee = _devFeet;
   uint256 totalFee = _liquidityFeet.add(_marketingFeet).add(_devFeet);
   sellTotalFee = _sellLiquidityFee+_sellMarketingFee+_sellDevFee;
    require(totalFee<=250, "Too High Fee");
```



### A

Whitelist (Contract renounced, function can not be triggered by owner.)

The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).

```
ftrace | function isExcludedFromFee(address account) public view onlyOwner returns(bool) {

return isExcludedFromFee[account];

}

ftrace | function | function | excludeFromFee(address account) | public onlyOwner {

isExcludedFromFee[account] = true;

}

ftrace | funcSig | function | excludeFromFee(address | memory accounts) | public onlyOwner {

ftrace | funcSig | function | excludeFromFeeMany(address[] memory accounts) | public onlyOwner {

isExcludedFromFeeMany(address[] memory accounts) | public onlyOwner {

isExcludedFromFee[accounts] | i++){

isExcludedFromFee[accounts] | excludefromFee[accounts] | excludeffromFee[accounts] | excludefromFee[accounts] | ex
```

▲ Max Transaction and Holding Modify Function (Contract renounced, function can not be triggered by owner.)

If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot

```
ftrace | funcSig

ftrace | function |

ftrace | functSig |

function |

ftrace | functSig |

function |

ftrace | functSig |

function |

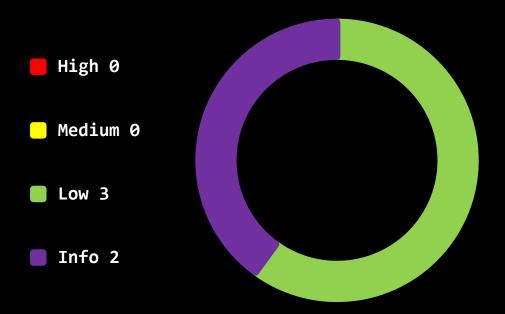
ftrace | functSig |

ftrace | functSig
```



### Contract Security

### Total Findings: 5



- **High Severity Issues:** High possibility to cause problems, need to be resolved.
- Medium Severity Issue: Will likely cause problems, recommended to resolve.
- Low Severity Issues: Won't cause problems, but for improvement purposes could be adjusted.
- Informational Severity Issues: Not harmful in any way,
  information for the developer team.



## Contract Security List of Found Issues

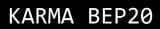
- High severity Issues: (0)
- Medium severity issues: (0)
- Low severity issues: (3)
  - Missing Events
  - Long number literals
  - Low level calls
- Informational severity issues: (2)
  - Public Functions Should be Declared External
  - Array length caching



### Contract Weakness Classisication

THE SMART CONTRACT WEAKNESS CLASSIFICATION REGISTRY (SWC REGISTRY) IS AN IMPLEMENTATION OF THE WEAKNESS CLASSIFICATION SCHEME PROPOSED IN EIP-1470. IT IS LOOSELY ALIGNED TO THE TERMINOLOGIES AND STRUCTURE USED IN THE COMMON WEAKNESS ENUMERATION (CWE) WHILE OVERLAYING A WIDE RANGE OF WEAKNESS VARIANTS THAT ARE SPECIFIC TO SMART CONTRACTS.

ID	Description	AI	Manual	Result
SWC-100	Function Default Visibility	Passed	Passed	Passed
SWC-101	Integer Overflow and Underflow	Passed	Passed	Passed
SWC-102	Outdated Compiler Version	Passed	Passed	Passed
SWC-103	Floating Pragma	Passed	Passed	Passed
SWC-104	Unchecked Call Return Value	Passed	Passed	Passed
SWC-105	Unprotected Ether Withdrawal	Passed	Passed	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed	Passed	Passed
SWC-107	Reentrancy	Passed	Passed	Passed
SWC-108	State Variable Default Visibility	Passed	Passed	Passed
SWC-109	Uninitialized Storage Pointer	Passed	Passed	Passed
SWC-110	Assert Violation	Passed	Passed	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed	Passed	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed	Passed	Passed
SWC-113	DoS with Failed Call	Passed	Passed	Passed
SWC-114	Transaction Order Dependence	Passed	Passed	Passed
SWC-115	Authorization through tx.origin	Passed	Passed	Passed
SWC-116	Block values as a proxy for time	Passed	Passed	Passed
SWC-117	Signature Malleability	Passed	Passed	Passed
SWC-118	Incorrect Constructor Name	Passed	Passed	Passed
SWC-119	Shadowing State Variables	Passed	Passed	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed	Passed	Passed





SWC-121	Missing Protection against Signature Replay Attacks	Passed	Passed	Passed
SWC-122	Lack of Proper Signature Verification	Passed	Passed	Passed
SWC-123	Requirement Violation	Passed	Passed	Passed
SWC-124	Write to Arbitrary Storage Location	Passed	Passed	Passed
SWC-125	Incorrect Inheritance Order	Passed	Passed	Passed
SWC-126	Insufficient Gas Griefing	Passed	Passed	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed	Passed	Passed
SWC-128	DoS With Block Gas Limit	Passed	Passed	Passed
SWC-129	Typographical Error	Passed	Passed	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed	Passed	Passed
SWC-131	Presence of unused variables	Passed	Passed	Passed
SWC-132	Unexpected Ether balance	Passed	Passed	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed	Passed	Passed
SWC-134	Message call with hardcoded gas amount	Passed	Passed	Passed
SWC-135	Code With No Effects	Passed	Passed	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed	Passed	Passed

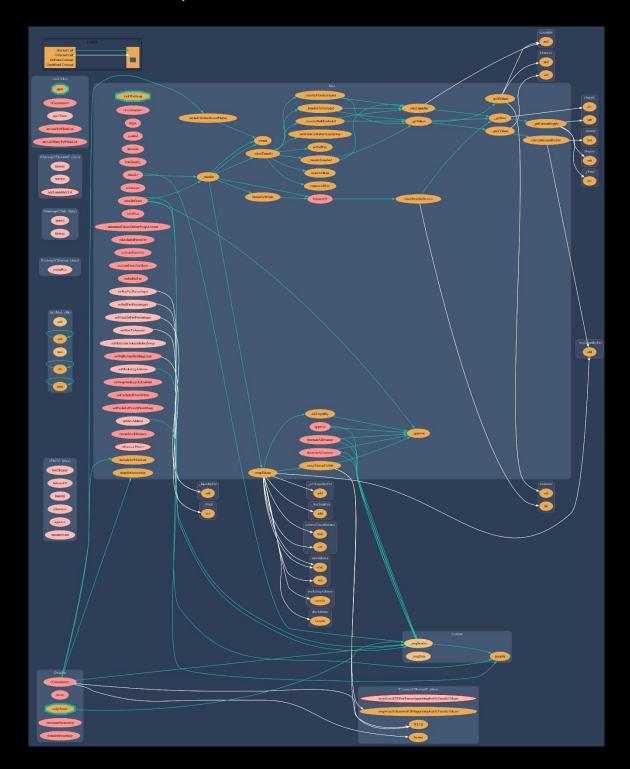


Detected High and Medium Severity Vulnerability Description.

No High or Medium Severity Vulnerability Issues found.



## Contract Flow Graph



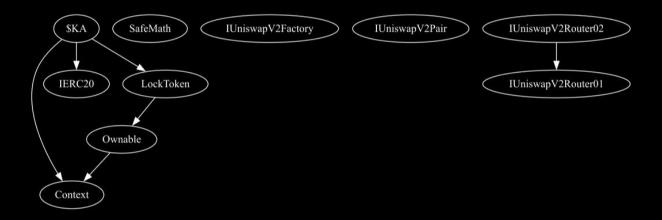


### Contract Interaction Graph





## Inheritance Graph





### Contract Functions

Туре	Bases		
Function Name	Visibility	Mutability	Modifiers
Implementation			
_msgSender	Internal 🖺		
_msgData	Internal 🖺		
Interface			
totalSupply	External 🏻		NO
balanceOf	External 🏻		NO[
transfer	External 🏻		NO[
allowance	External 🏻		NO
approve	External 🏻		NO
transferFrom	External 🏻		NO[
Library			
add	Internal 🖺		
sub	Internal 🖺		
sub	Internal 🖺		
mul	Internal 🖺		
div	Internal 🖺		
div	Internal 🖺		
mod	Internal 🖺		
mod	Internal 🖺		
	Function Name  Implementation  _msgSender  _msgData  Interface  totalSupply  balanceOf  transfer  allowance  approve  transferFrom  Library  add  sub  sub  mul  div  div  mod	Function Name    Function Name   Visibility	Function Name    Visibility   Mutability



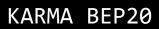


Contract	Туре	Bases		
Ownable	Implementation	Context		
L		Public 🌡		NO[
L	owner	Public 🌡		NO[
L	renounceOwner ship	Public 🌡		onlyOwner
L	transferOwners hip	Public 🌡		onlyOwner
IUniswapV2Fac tory	Interface			
L	createPair	External 🎚		NO[
IUniswapV2Pai r	Interface			
L	permit	External 🏻		NO
L	factory	External 🌡		NO
IUniswapV2Ro uter01	Interface			
L	factory	External 🏻		NO
L	WETH	External 🏻		NO
L	addLiquidityETH	External [	<u>db</u>	NO[
IUniswapV2Ro uter02	Interface	IUniswapV2Rou ter01		
L	swapExactETHF orTokensSuppo rtingFeeOnTran sferTokens	External 🌡	ďВ	иоД
L	swapExactToke nsForETHSuppo	External 🏻		NO[





Contract	Туре	Bases		
	rtingFeeOnTran sferTokens			
LockToken	Implementation	Ownable		
L		Public 🌡		NO[
L	openTrade	External 🏻		onlyOwner
L	includeToWhite List	Public 🌡		onlyOwner
L	includeManyTo WhiteList	Public 🌡		onlyOwner
\$KA	Implementation	Context, IERC20, LockToken		
L		Public 🌡		NO[
L	name	Public 🌡		NO[
L	symbol	Public 🌡		NO
L	decimals	Public 🌡		NO
L	totalSupply	Public 🌡		NO[
L	balanceOf	Public 🌡		NO
L	transfer	Public 🌡		NO
L	allowance	Public 🌡		NO
L	approve	Public 🌡		NO[
L	transferFrom	Public 🌡		NO[
L	increaseAllowan ce	Public 🌡		NOĴ
L	decreaseAllowa nce	Public 🌡		NOÏ





Contract	Туре		Bases	
L	totalFees	Public 🌡		NO
L	minimumToken sBeforeSwapAm ount	Public 🌡		NO[
L	tokenFromRefle ction	Private 🖺		
L	_approve	Private 🖺		
L	_transfer	Private 🖺		open
L	swapTokens	Private 🖺		lockTheSwap
L	swapTokensFor Eth	Private 🖺		
L	addLiquidity	Private 🖺		
L	_tokenTransfer	Private 🖺		
L	_transferStandar d	Private 🖺		
L	_transferToExclu ded	Private 🖺		
L	_transferFromEx cluded	Private 🖺		
L	_transferBothEx cluded	Private 🖺		
L	_getValues	Private 🖺		
L	_getTValues	Private 🖺		
L	_getRValues	Private 🖺		
L	_getRate	Private 🖺		
L	_getCurrentSup ply	Private 🖺		





Contract	Туре		Bases	
L	_takeLiquidity	Private 🖺		
L	calculateLiquidit yFee	Private 🖺		
L	isExcludedFrom Fee	Public 🏻		onlyOwner
L	excludeFromFee	Public 🌡		onlyOwner
L	excludeFromFee Many	Public 🌡		onlyOwner
L	includeInFee	Public 🌡		onlyOwner
L	removeAllFee	Private 🖺		
L	restoreAllFee	Private 🖺		
L	setSellFee	Private 🖺		
L	setWalletToWall etTransferFee	Private 🖺		
L	setBuyFeePerce ntages	External 🌡		onlyOwner
L	setSellFeePerce ntages	External 🌡		onlyOwner
L	setTransferFeeP ercentages	External 🌡		onlyOwner
L	setMaxTxAmou nt	External 🌡		onlyOwner
L	setMinimumTok ensBeforeSwap	External 🌡		onlyOwner
L	setMarketingAd dress	External 🌡		onlyOwner
L	setDevAddress	External [		onlyOwner



## KARMA BEP20

Contract	Туре	Bases		
L	setSwapAndLiq uifyEnabled	Public 🌡		onlyOwner
L	excludeWalletsF romWhales	Private 🖺		
L	checkForWhale	Private 🖺		
L	setExcludedFro mWhale	Public 🌡		onlyOwner
L	setExcludedFro mWhaleMany	Public 🌡		onlyOwner
L	setWalletMaxH oldingLimit	Public 🌡		onlyOwner
L	rescueStuckBala nce	Public 🌡		onlyOwner
L		External 🌡	ŒÐ	NO

Function Function can modify is payable state



### Audit Scope

#### Audit Method.

Our smart contract audit is an extensive methodical examination and analysis of the smart contract's code that is used to interact with the blockchain. Goal: discover errors, issues and security vulnaribilities in the code. Findings getting reported and improvements getting suggested.

### Automatic and Manual Review

We are using automated tools to scan functions and weeknesses of the contract. Transfers, integer over-undeflow checks such as all CWE events.

### Tools we use:

Visual Studio Code **CWE** SWC Solidity Scan SVD

In manual code review our auditor looking at source code and performing line by line examination. This method helps to clarify developer's coding decisions and business logic.

### **Skeleton Ecosystem**

https://skeletonecosystem.com

https://github.com/SkeletonEcosystem/Audits

