



# Coinsult

## Advanced Manual Smart Contract Audit



**Project:** CryptoHeist

**Website:** <https://cryptoheist.cash>

**Low-risk**

5 low-risk code  
issues found

**Medium-risk**

0 medium-risk code  
issues found

**High-risk**

0 high-risk code  
issues found

**Contract address**

0xea99201E51D5534698e0D8d02BFBA79eCB0e2334

Disclaimer: Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

# Disclaimer

Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

The information provided in this audit is for informational purposes only and should not be considered investment advice. Coinsult does not endorse, recommend, support or suggest to invest in any project.

Coinsult can not be held responsible for when a project turns out to be a rug-pull, honeypot or scam.

# Tokenomics

Rank	Address	Quantity (Token)	Percentage
1	0xff52871eb30034d1404a008ecd30b0be1c2a652d	325,000	100.0000%

# Source code

Coinsult was commissioned by CryptoHeist to perform an audit based on the following smart contract:

<https://bscscan.com/address/0xea99201E51D5534698e0D8d02BFBA79eCB0e2334#code>

# Manual Code Review

## ● Low-risk

5 low-risk code issues found.

Could be fixed, will not bring problems.

- Contract contains Reentrancy vulnerabilities:

`_transferFrom(address,address,uint256)`

Additional information: This combination increases risk of malicious intent. While it may be justified by some complex mechanics (e.g. rebase, reflections, buyback).

More information: [Slither](#)

```
function _transferFrom(
    address sender,
    address recipient,
    uint256 amount
) internal returns (bool) {

    require(!blacklist[sender] && !blacklist[recipient], "in_blacklist");

    if (inSwap) {
        return _basicTransfer(sender, recipient, amount);
    }
    if (shouldRebase()) {
        rebase();
    }

    if (shouldAddLiquidity()) {
        addLiquidity();
    }

    if (shouldSwapBack()) {
        swapBack();
    }

    uint256 gonAmount = amount.mul(_gonsPerFragment);
    _gonBalances[sender] = _gonBalances[sender].sub(gonAmount);
    uint256 gonAmountReceived = shouldTakeFee(sender, recipient)
        ? takeFee(sender, recipient, gonAmount)
        : gonAmount;
    _gonBalances[recipient] = _gonBalances[recipient].add(
        gonAmountReceived
    );

    emit Transfer(
        sender,
        recipient,
        gonAmountReceived.div(_gonsPerFragment)
    );
    return true;
}
```

- Function which sends eth to arbitrary destination

Ensure that an arbitrary user cannot withdraw unauthorized funds. More information: [Slither](#)

```
(bool success, ) = payable(treasuryReceiver).call({
    value: amountETHToTreasuryAndSIF.mul(treasuryFee).div(
        treasuryFee.add(heistInsuranceFundFee)
    ),
    gas: 30000
})("");
(success, ) = payable(heistInsuranceFundReceiver).call({
    value:
amountETHToTreasuryAndSIF.mul(heistInsuranceFundFee).div(
        treasuryFee.add(heistInsuranceFundFee)
    ),
    gas: 30000
})("");
```

- Block.timestamp can be manipulated by miners.  
Avoid relying on block.timestamp.

More information:

<https://github.com/crytic/slither/wiki/Detector-Documentation#block-timestamp>

```
function setAutoRebase(bool _flag) external onlyOwner {
    if (_flag) {
        _autoRebase = _flag;
        _lastRebasedTime = block.timestamp;
    } else {
        _autoRebase = _flag;
    }
}
```

- Variable written twice

Fix or remove the writes.

More information:

<https://github.com/crytic/slither/wiki/Detector-Documentation#write-after-write>

```
(bool success, ) = payable(treasuryReceiver).call{
    value: amountETHToTreasuryAndSIF.mul(treasuryFee).div(
        treasuryFee.add(heistInsuranceFundFee)
    ),
    gas: 30000
}("");
(success, ) = payable(heistInsuranceFundReceiver).call{
    value:
amountETHToTreasuryAndSIF.mul(heistInsuranceFundFee).div(
        treasuryFee.add(heistInsuranceFundFee)
    ),
    gas: 30000
}("");
```

- Missing zero address validation.

Check that the new address is not zero.

```
function setFeeReceivers(
    address _autoLiquidityReceiver,
    address _treasuryReceiver,
    address _heistInsuranceFundReceiver,
    address _firePit
) external onlyOwner {
    autoLiquidityReceiver = _autoLiquidityReceiver;
    treasuryReceiver = _treasuryReceiver;
    heistInsuranceFundReceiver = _heistInsuranceFundReceiver;
    firePit = _firePit;
}
```

### ● **Medium-risk**

0 medium-risk code issues found.

Should be fixed, could bring problems.

### ● **High-risk**

0 high-risk code issues found

Must be fixed, and will bring problems.

## Extra notes by the team

- Owner can not change the fees
- The ownership is not renounced.
- Owner can blacklist contract addresses
- Contract uses rebase

```
function rebase() internal {

    if ( inSwap ) return;
    uint256 rebaseRate;
    uint256 deltaTimeFromInit = block.timestamp -
_initRebaseStartTime;
    uint256 deltaTime = block.timestamp - _lastRebasedTime;
    uint256 times = deltaTime.div(15 minutes);
    uint256 epoch = times.mul(15);

    if (deltaTimeFromInit < (365 days)) {
        rebaseRate = 2355;
    } else if (deltaTimeFromInit >= (365 days)) {
        rebaseRate = 24;
    }

    for (uint256 i = 0; i < times; i++) {
        _totalSupply = _totalSupply
            .mul((10**RATE_DECIMALS).add(rebaseRate))
            .div(10**RATE_DECIMALS);
    }

    _gonsPerFragment = TOTAL_GONS.div(_totalSupply);
    _lastRebasedTime = _lastRebasedTime.add(times.mul(15 minutes));

    pairContract.sync();

    emit LogRebase(epoch, _totalSupply);
}
```

# Contract Snapshot

```
contract CryptoHeist is ERC20Detailed, Ownable {

    using SafeMath for uint256;
    using SafeMathInt for int256;

    event LogRebase(uint256 indexed epoch, uint256 totalSupply);

    string public _name = "CryptoHeist";
    string public _symbol = "HEIST";
    uint8 public _decimals = 5;

    IPancakeSwapPair public pairContract;
    mapping(address => bool) _isFeeExempt;

    modifier validRecipient(address to) {
        require(to != address(0x0));
        _;
    }

    uint256 public constant DECIMALS = 5;
    uint256 public constant MAX_UINT256 = ~uint256(0);
    uint8 public constant RATE_DECIMALS = 7;

    uint256 private constant INITIAL_FRAGMENTS_SUPPLY =
        325 * 10**3 * 10**DECIMALS;

    uint256 public liquidityFee = 40;
    uint256 public treasuryFee = 70;
    uint256 public heistInsuranceFundFee = 40;
    uint256 public sellFee = 90;
    uint256 public firePitFee = 10;
    uint256 public totalFee =
        liquidityFee.add(treasuryFee).add(heistInsuranceFundFee).add(
            firePitFee
        );
    uint256 public feeDenominator = 1000;

    address DEAD = 0x00000000000000000000000000000000dEaD;
    address ZERO = 0x0000000000000000000000000000000000000000;
```



# Website Review



Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.

- Mobile Friendly
- Contains no jQuery errors
- SSL Secured
- No major spelling errors

Loading speed: 84%

# Rug-pull Review

Based on the available information analyzed by us, we come to the following conclusions:

- Locked Liquidity - No liquidity yet
- Large unlocked wallets - Tokens not yet distributed
- Doxxed Team (KYC at Coinsult)

# Honeypot Review

Based on the available information analyzed by us, we come to the following conclusions:

- Ability to sell
- Owner is not able to pause the contract
- Router can be changed

**Note:** Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by the project owner.