

# Troubleshooting Guide

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## Common Issues

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### ETF.com Access Issues

#### 1. 403 Forbidden Error

```
Error: ETF.com returned status code 403
```

Solutions:

- Verify ChromeDriver installation
- Clear browser cache
- Check rate limiting
- Use debug mode for more info

#### 2. Parsing Errors

```
Error: could not convert string to float
```

Solutions:

- Check HTML structure changes
- Update parsing patterns
- Use debug logging
- Check data format

## Browser Automation

#### 1. ChromeDriver Issues

```
Error: ChromeDriver not found
```

Solutions:

- Verify PATH settings
- Reinstall ChromeDriver
- Check version compatibility
- Remove quarantine (macOS)

## 2. Permission Issues

```
Error: Operation not permitted
```

Solutions:

- Run with sudo (Linux/macOS)
- Check security settings
- Allow in system preferences
- Update permissions

## Data Validation

### 1. Large Differences

```
Warning: AUM difference > 25%
```

Solutions:

- Check data freshness
- Verify source reliability
- Compare timestamps
- Use alternative sources

### 2. Missing Data

```
Warning: Could not find expense ratio
```

Solutions:

- Check data sources
- Verify ticker symbol
- Use alternative sources
- Check cache status

## Debug Mode

Enable debug logging:

```
etf-analyzer analyze VOO --debug
```

# Support

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1. Open an issue with:

- Full error message
- OS and version
- Steps to reproduce
- Debug output

2. Include environment info:

```
etf-analyzer --version  
python --version  
pip list
```