

# 5CFE9D;}

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## Context

For developers looking to support custom liquidity mining , subscriber contracts receive notifications about a position. Rewards can be issued proportional to the liquidity's fee revenue, without the need of custodying the position.

## Guide

### 1. Inherit ISubscriber

Please see [ISubscriber](#) for the interface definition

```
import
```

```
{ ISubscriber }
```

```
from
```

```
"v4-periphery/src/interfaces/ISubscriber.sol" ;
```

```
contract
```

```
MySubscriber
```

is ISubscriber { // Implement the ISubscriber interface } Copy Developers should implement each function, and do proper accounting for rewards -- rewards should be proportional to a position's liquidity or fee-revenue.

### 2. A note on unsubscribe()

Unsubscribe has a gas limit to prevent griefing. The value is determined at deployment, and is readable via `unsubscribeGasLimit()` on `PositionManager`

If `notifyUnsubscribe()` reverts, the position will still successfully unsubscribe.

### 3. Opt-in to a subscriber contract

To opt-in to a subscriber contract, call `subscribe()` on the `PositionManager` contract.

```
import
```

```
{ IPositionManager }
```

```
from
```

```
"v4-periphery/src/interfaces/IPositionManager.sol" ;
```

## IPositionManager posm

```
IPositionManager ( < address
```

```
    ) ; ISubscriber mySubscriber =
```

```
ISubscriber ( < address
```

```
    ) ;
```

bytes

memory optionalData =

```
. . . ; posm . subscribe ( tokenId , mySubscriber , optionalData ) ; Copy Edit this page .css-1tclyyl{margin-top:1.5rem;} .css-1c3fvx8{display:-webkit-box;display:-webkit-flex;display:-ms-flexbox;display:flex;-webkit-flex-direction:row;-ms-flex-direction:row;flex-direction:row;-webkit-align-items:center;-webkit-box-align:center;-ms-flex-align:center;align-items:center;-webkit-box-pack:center;-ms-flex-pack:center;-webkit-justify-content:center;justify-content:center;} .css-1wsnqg4{font-size:1rem;padding-right:0.5rem;} Helpful? .css-y2jwfw{fill:transparent;opacity:0.5;} .css-y2jwfw:hover{fill:#5CFE9D;}
```

```
.css-kun0x7{fill:transparent;opacity:0.5;margin:0 0.2rem;} .css-kun0x7:hover{fill:#FAF40A;}
```

```
.css-1ix0nx7{fill:transparent;opacity:0.5;} .css-1ix0nx7:hover{fill:#F14544;} Previous NoOp Hooks Next Building Your First Hook * 1. Inherit! Subscriber * 2. A note on unsubscribe\(\) * 3. Opt-in to a subscriber contract
```