```
1
err = estimator_z - desired_altitude;
desired_climb
    = pre_climb + altitude_pgain * err;
(desired_climb < -CLIMB_MAX)?
```

0

1

```
2
desired_climb = -CLIMB_MAX;
```

```
3
(desired_climb > CLIMB_MAX)?
```

0

1

```
4
desired_climb = CLIMB_MAX;
```

```
5
return;
```