Indoor Unit

Operation Guide

Operation Guide

This guide explains how to operate the IDU. The IDU is the system's user interface,providing access to the system and its functions through an LCD display

Installation Steps

Important Safety Information

Before you operate the IDU,please read each of the procedures in the operation guide carefully.

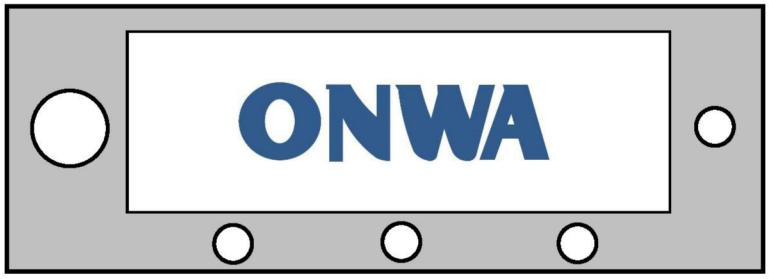
This icon indicates that you must pay your attention to it

❶ Introduction

The antenna system is easy to use. Before you powering on IDU, Please double check follow step:

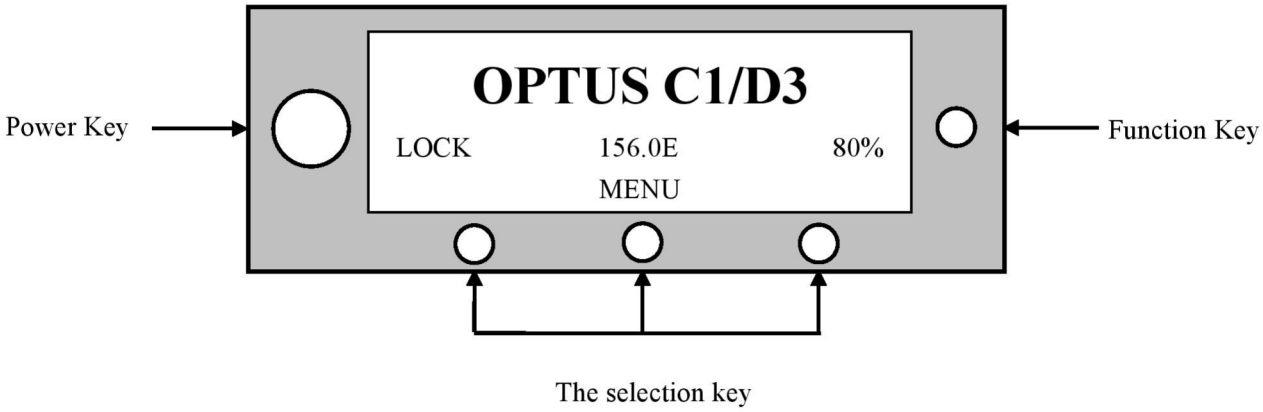
1. The antenna has a clear view of the sky
2. All the cables are connected correctly
3. Turn on your satellite TV **STB**(set top box) and TV

BootScreen



We have 3sec to customize our IDU splash screen.
Size of lattice display screen: 160x32

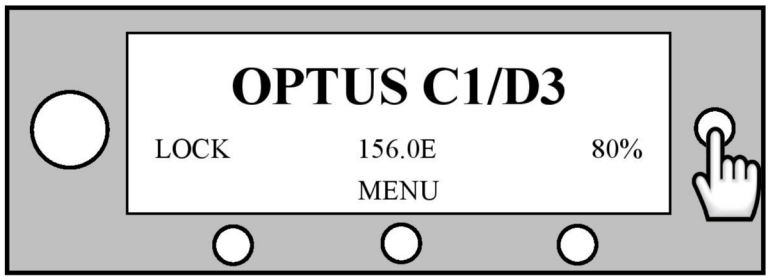
Normal Mode



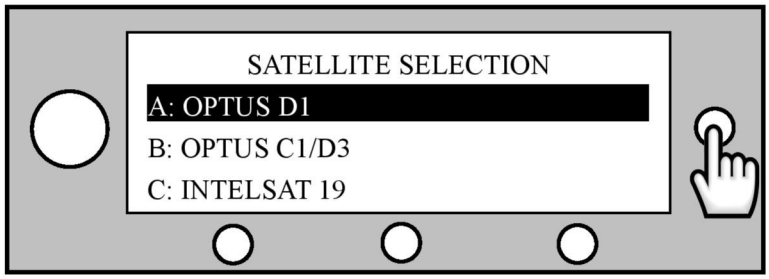
❷ One-button To Change Target Satellite

You can manually change target satellite which you want to lock on among the preset satellite group by **Function** key.

You must select a preset satellite group you want to lock on in "SET SAT PAIRS". See next page.



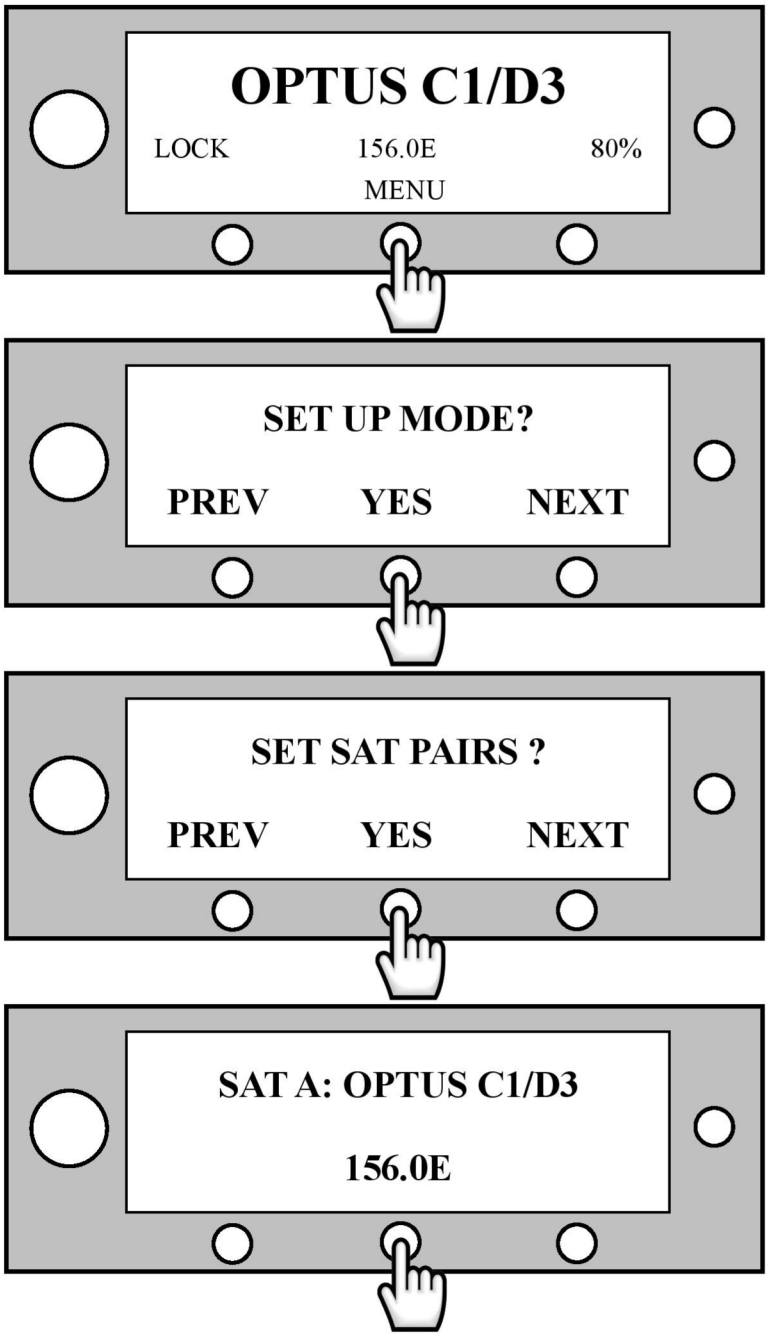
In the normal mode,press **FUNCTION** key will enter satellite selection mode.



You can select the target satellite what you want in the list.
Wait for 3 second, the target satellite will be selected automatically and tracked by the antenna.
And it will return to **Normal Mode** automatically at the same time.

❸ Set Triple Satellite Pairs

Select a preset satellite group you want to lock on in the global satellite library. So that you can easily switch back or forth among them



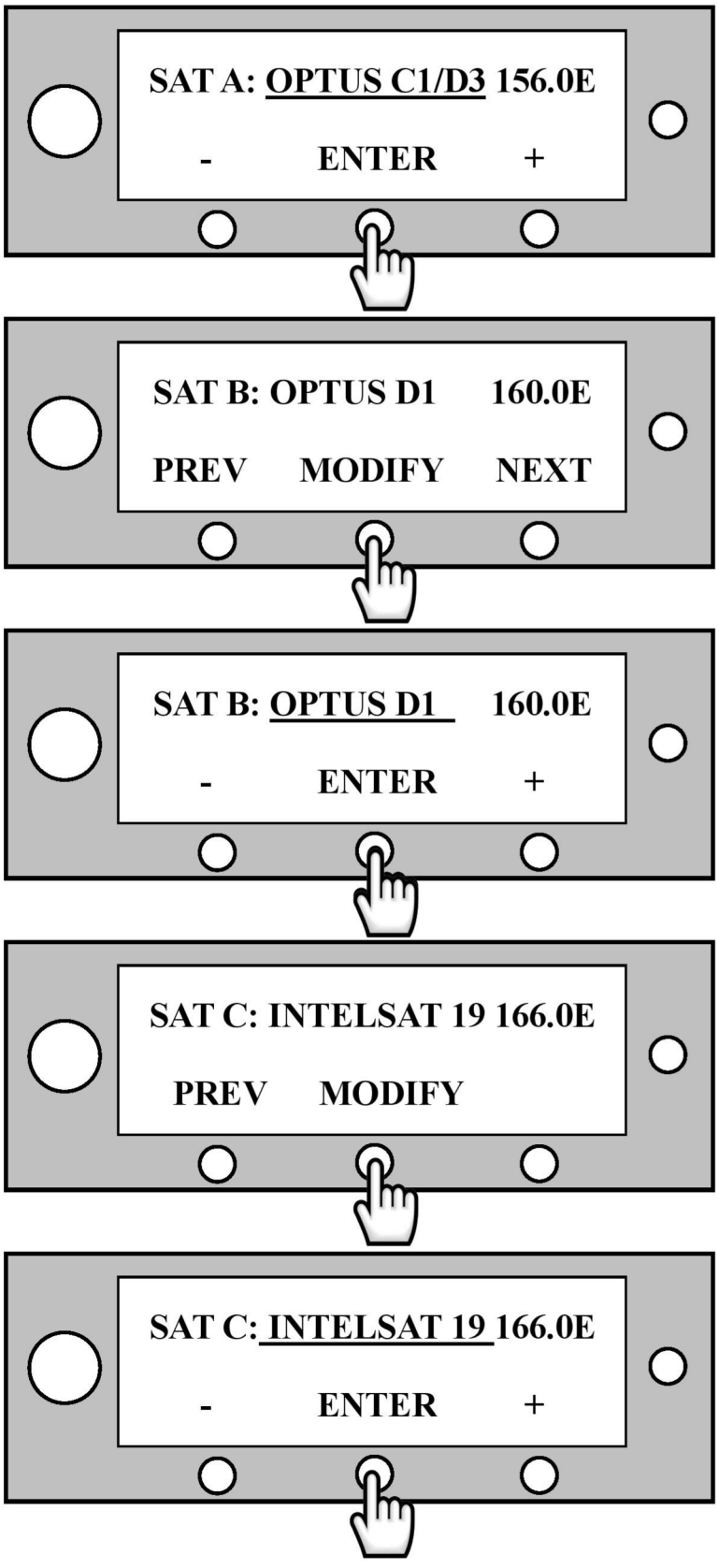
1. Press **MENU** will enter menu selection.

2. Press **YES** will enter **SET UP MODE**

3. Press **YES** will enter **SET SAT PAIRS** mode

4. Press **MODIFY** will enter **SAT A** modify mode. Go to step5
   OR press **NEXT** will enter **SAT B .** Go to step6
   OR press "**Fun Key**" will go to step10

❸ Set Triple Satellite Pairs



5. Press +/- to select the satellite.
   OR press **ENTER** will input the accept data. Go to step4

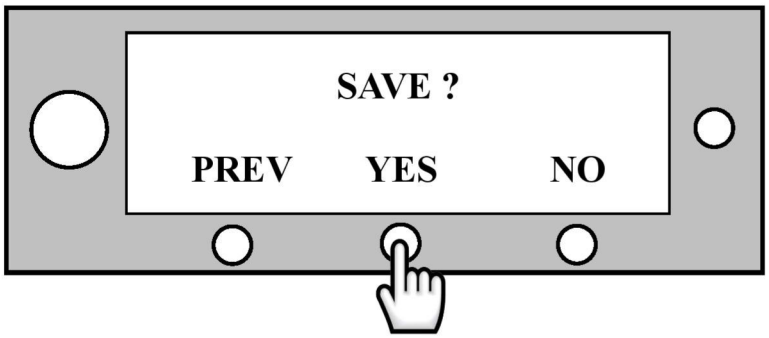
6. Press **MODIFY** will enter **SAT B** modify mode.
   OR press **NEXT** will enter **SAT C** modify mode. Go to step8

7. Press +/- to select the satellite.
   OR press **ENTER** will input the accept data. Go to step6

8. Press **MODIFY** to enter **SAT C** modify mode.
   OR press **NEXT** to go to step10
   If there is nothing have been modified, it will go to step3

9. Press **ENTER** will input the accept data. Then go to step8
   OR press +/- to change the satellite.

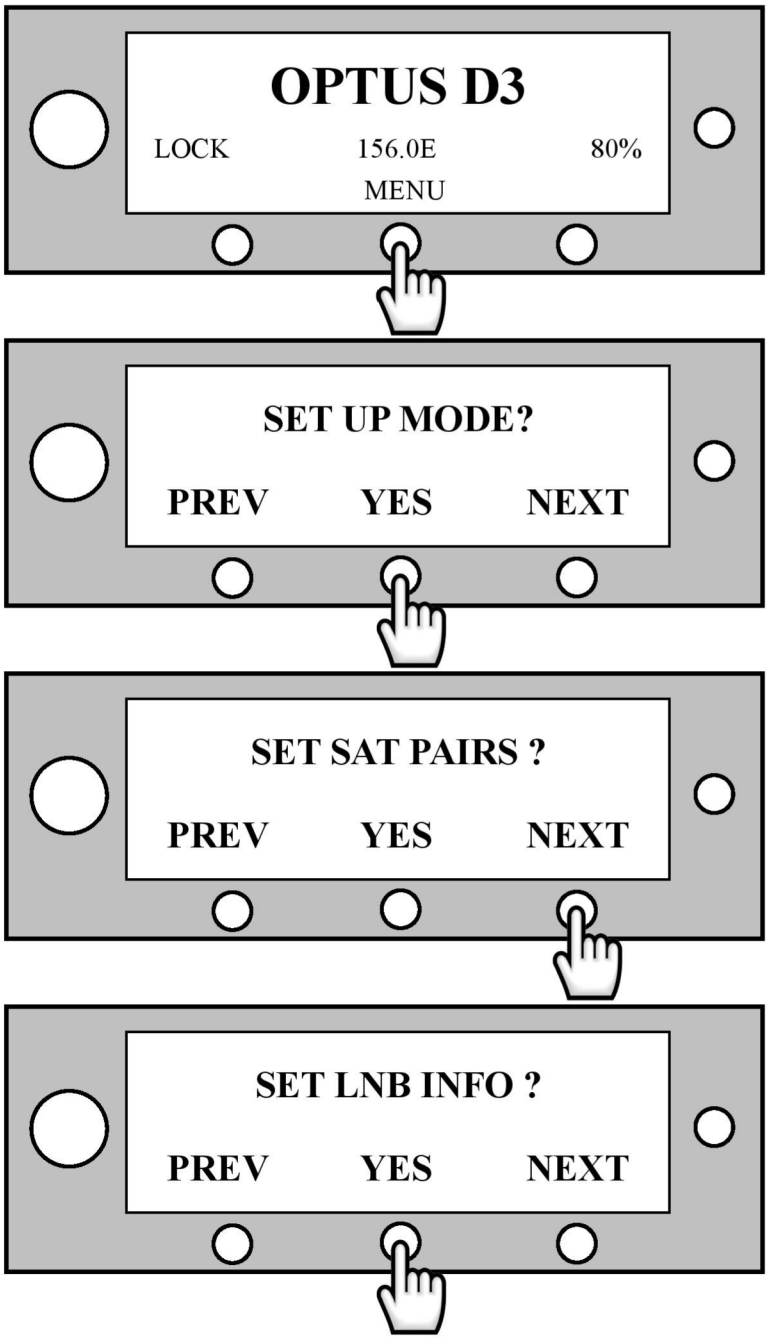
❸ Set Triple Satellite Pairs



10. Press **PREV** will return to step 8
    OR press **YES** will save the setting
    OR press **NO** will cancel the setting

❹ Set LNB Information

Set up the LNB information is very important. The information of LNB must match with the LNB inside of the ODU. If not,the antenna may not lock onto the target satellite.



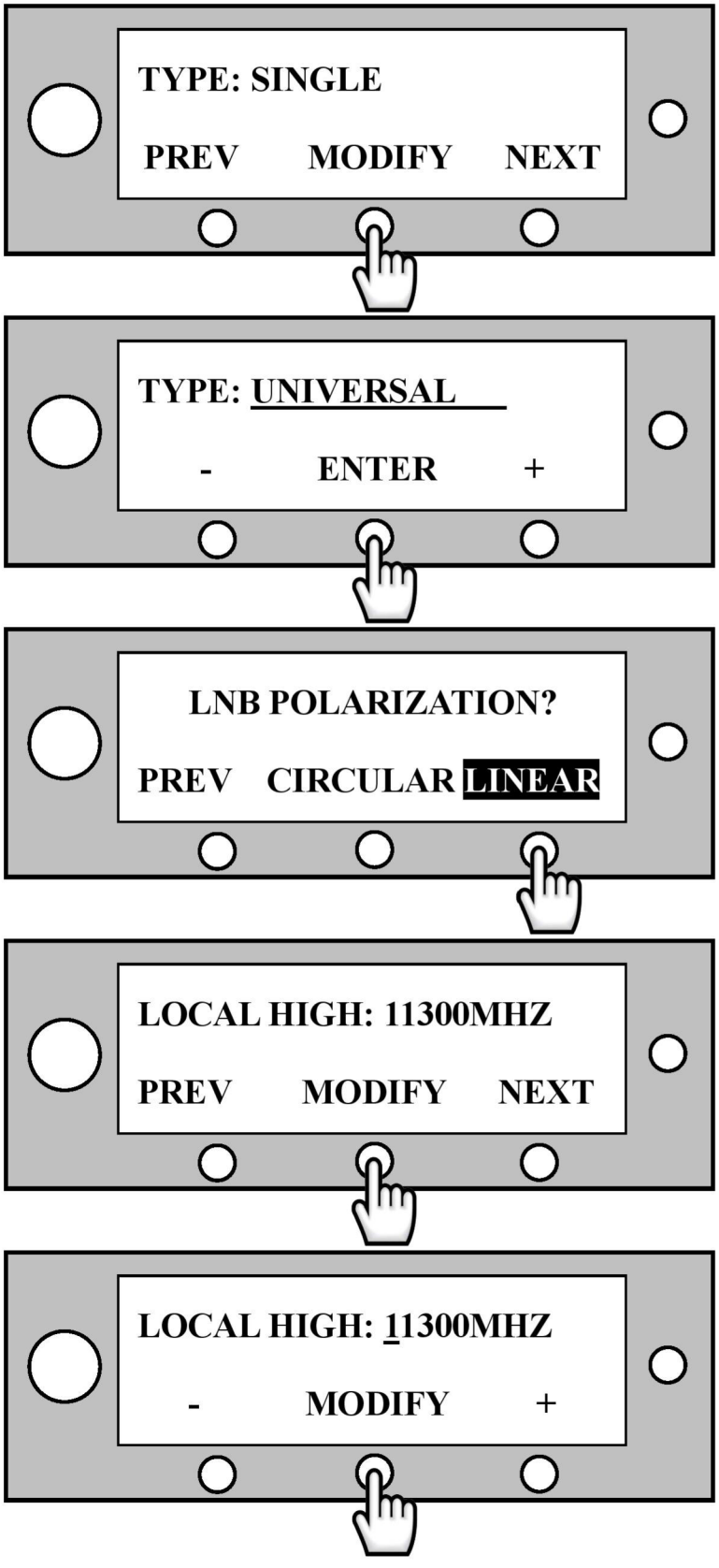
1. Press **MENU** will enter menu selection.

2. Press **YES** will enter **SET UP MODE**

3. Press **NEXT** will go to next selection

4. Press **YES** will enter "**SET LNB INFO**"

❹ Set LNB Information



5. Press **MODIFY** will enter **LNB TYPE** modify mode. **OR** press **NEXT** will enter **HIGH LOCAL FREQUECY** setting. Go to step7

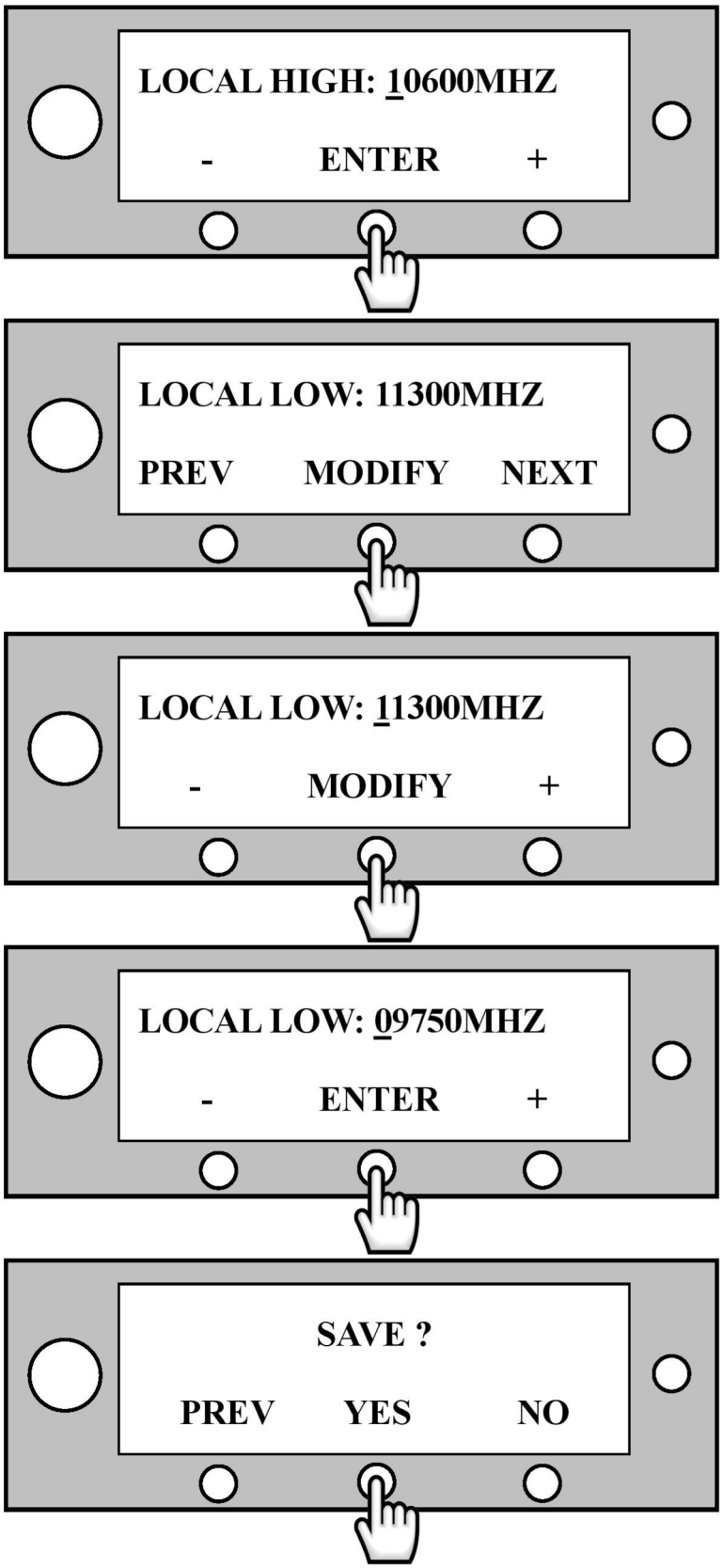
6. Press +/- to change LNB type Press **ENTER** will input the accept data. Go to step5

7. Press **CIRCULAR** or **LINEAR** will select the **LNB POLARIZATION.** Go to step8

8. Press **MODIFY** will enter **HIGH LOCAL FREQUECY** modify mode. The cursor will be flashing. **OR** press **NEXT** will go to next selection.Go to step13

9. Press **MODIFY** the cursor will stop flashing. **OR** press +/- will move the cursor. **OR** press **Function** key will go to step8.

❹ Set LNB Information



10. Press +/- will modify the bit of data where the cursor be.
OR press **ENTER** will input the accept data. And the cursor will be flashing.Go to step9

11. Press **MODIFY** will enter **LOW LOCAL FREQUECY** modify mode. the cursor will be flashing.
OR press **NEXT** will go to next selection.Go to step14

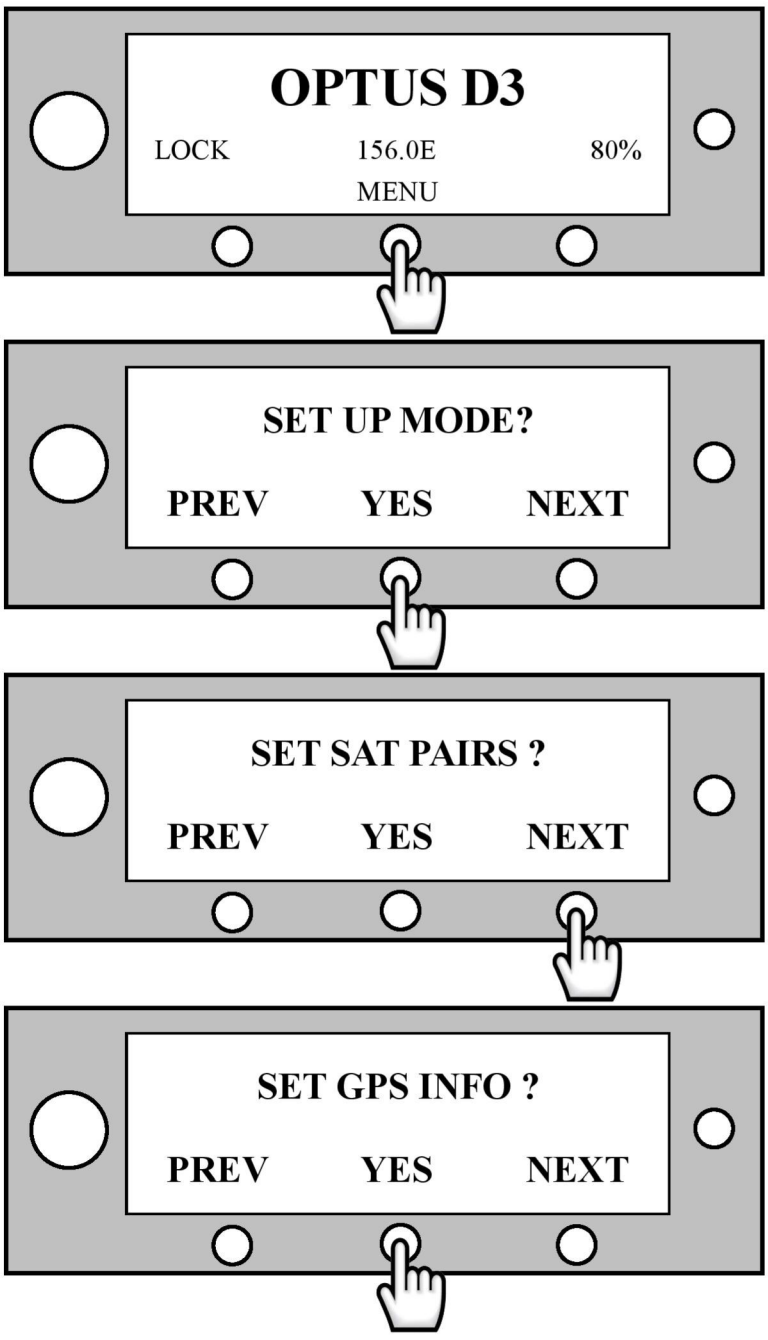
12. Press **MODIFY** the cursor will stop flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step 11.

13. Press +/- will modify the bit of data where the cursor be .
OR press **ENTER** will input the accept data. And the cursor will stop flash.Go to step12

14. Press **PREV** will return to step 11
OR press **YES** will save the setting
OR press **NO** will cancel the setting

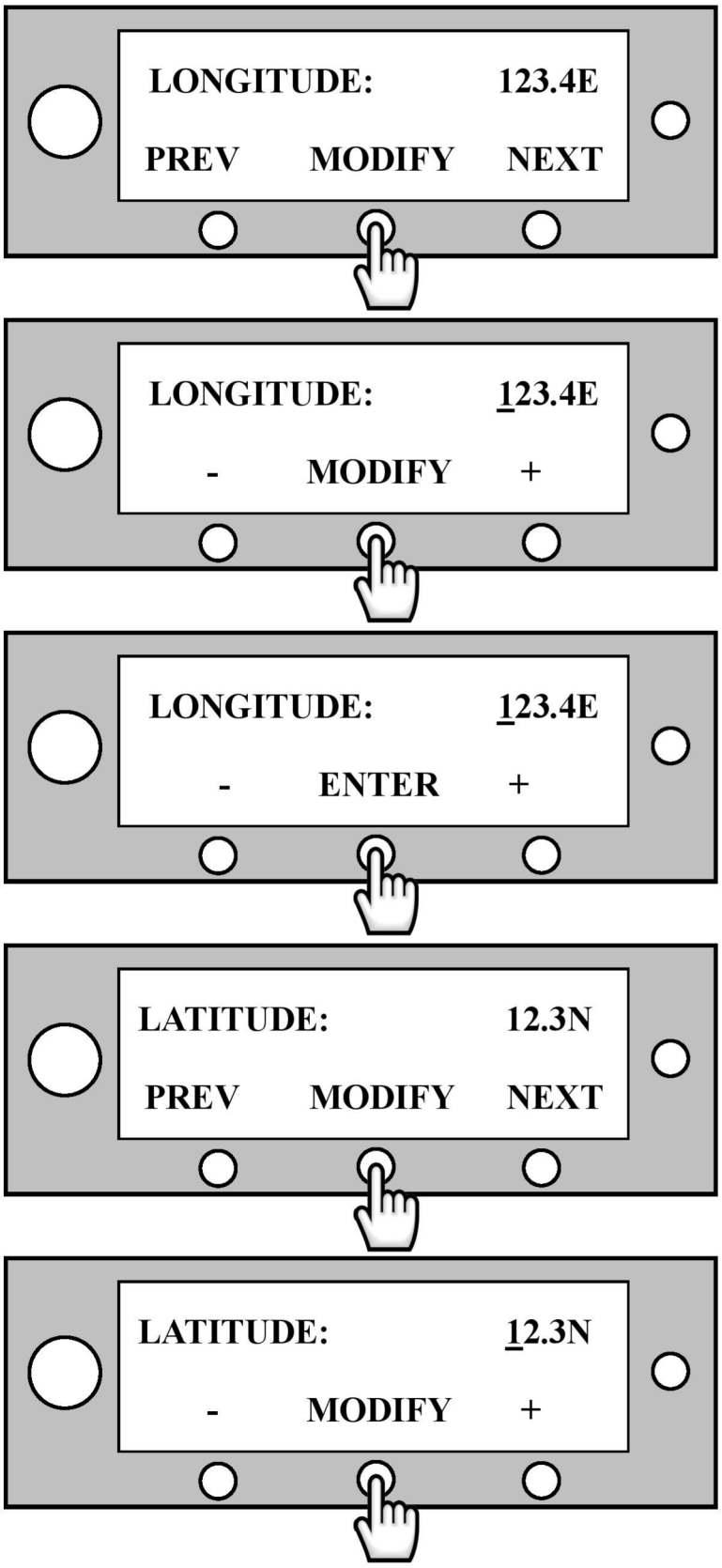
❺ Set GPS Information

Set up the local GPS information will help the antenna to lock onto the target satellite more quickly. Actually, GPS information is also effect to skew angle



1. Press **MENU** will enter menu selection.
2. Press **MENU** will enter **SET UP MODE**.
3. Press **NEXT** twice will go to **SET GPS INFO** selection.
4. Press **YES** will enter **SET GPS INFO**.

❺ Set GPS Information



5. Press **MODIFY** will enter **LONGITUDE** modify mode. The cursor will be flashing.
OR press **NEXT** will go to step8.

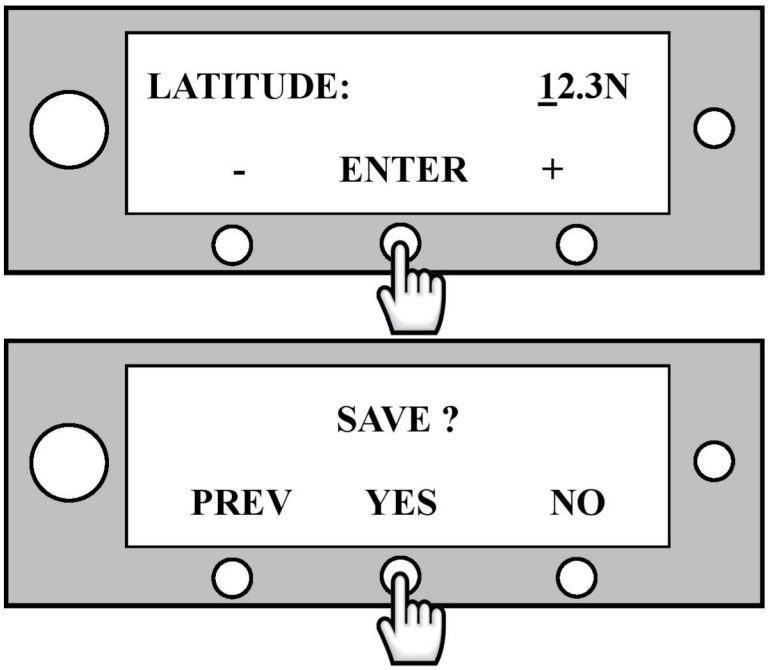
6. Press **MODIFY** the cursor will stop flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step5.

7. Press +/- will modify the bit of data where the cursor be flashing.
OR press **ENTER** will input the accept data. And the cursor will stop flash.Go to step6

8. Press **MODIFY** will enter **LATTITUDE** modify mode.
OR press **NEXT** will go to step11.

9. Press **MODIFY** the cursor will be flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step8.

❺ Set GPS Information



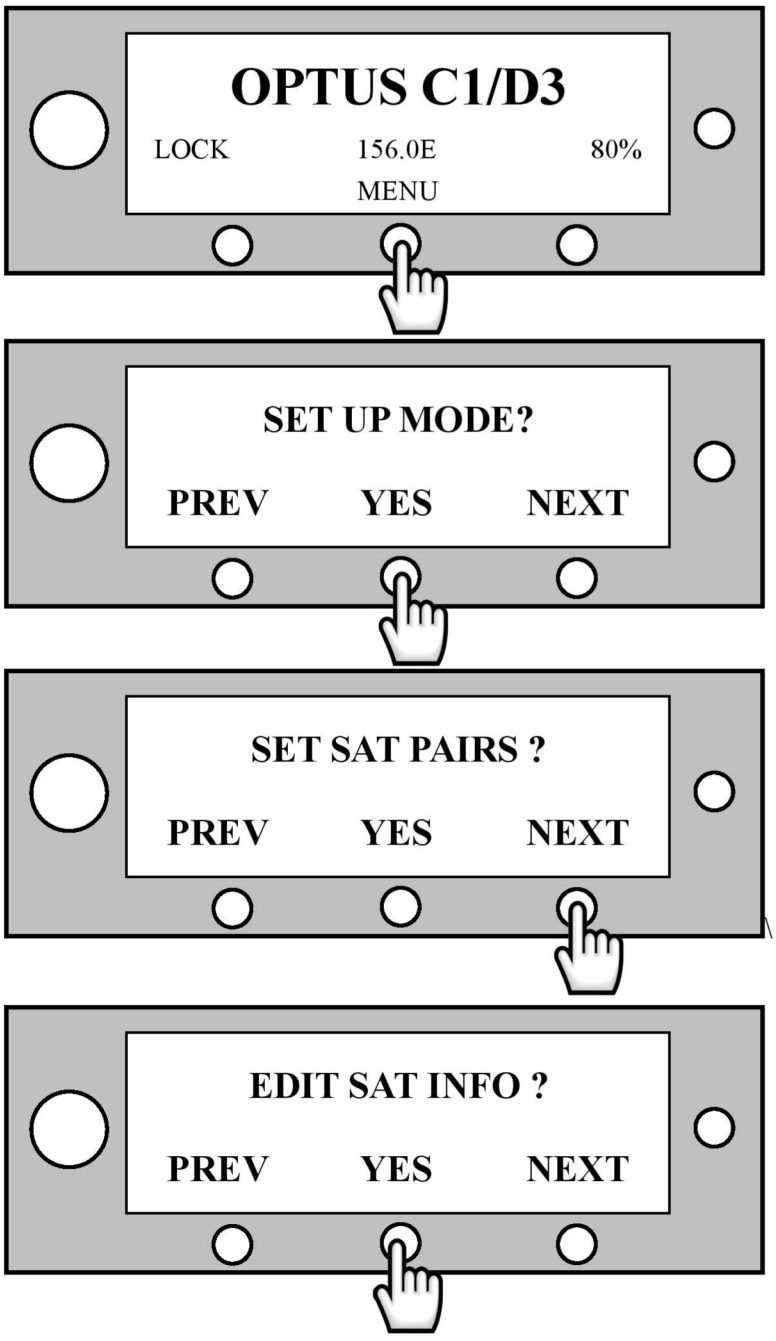
10. Press +/- will modify the bit of data where the cursor be. **OR** press **ENTER** will input the accept data. And the cursor will stop flashing.Go to step9

11. Press **PREV** will return to step8
OR press **YES** will save the setting
OR press **NO** will cancel the setting

❻ Edit Satellite Information

System is built-in global satellite library. It's allowed to edit the satellite information according to the actual situation

Require only technician to edit the satellite information,otherwise antenna will probably not lock onto the target satellite



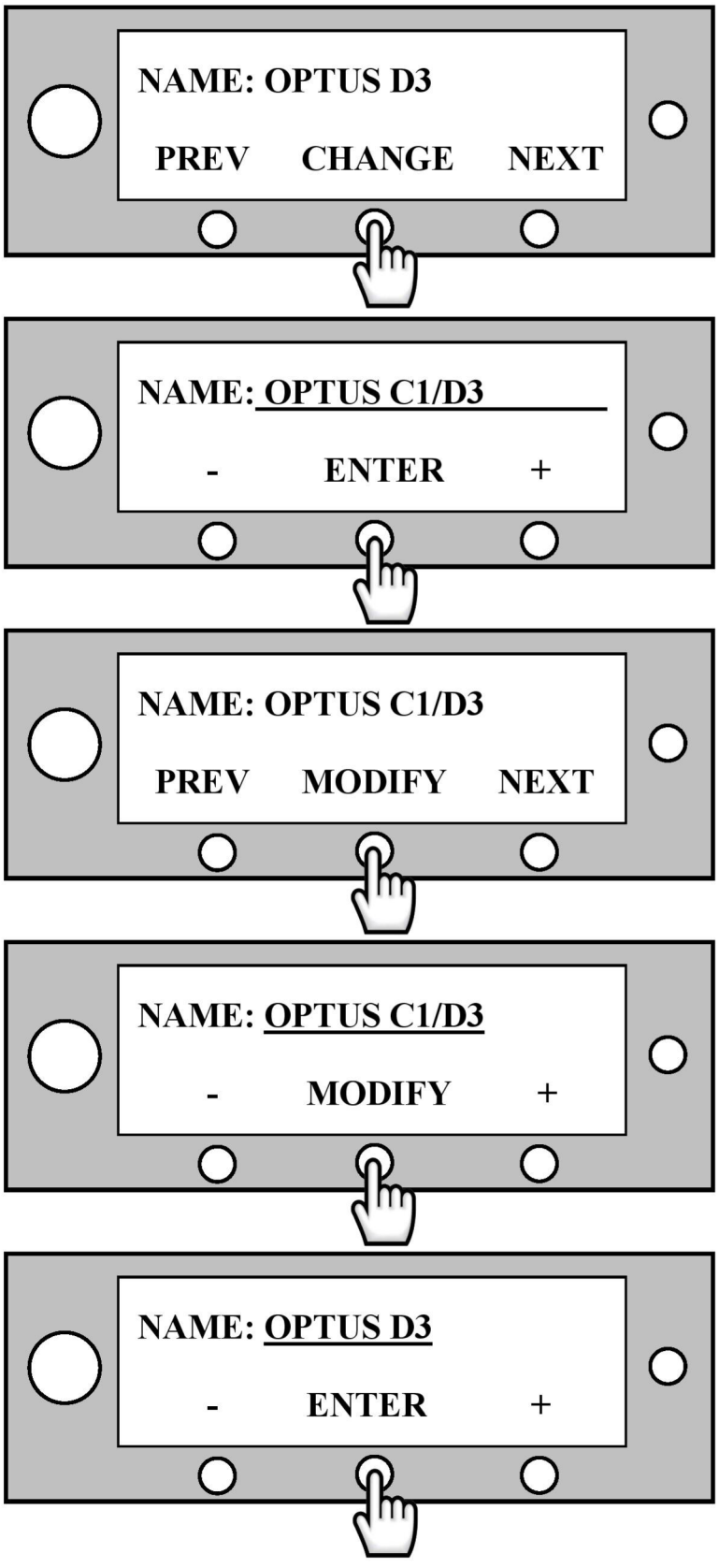
1. Press **MENU** will enter menu selection.

2. Press **YES** will enter **SET UP MODE**.

3. Press **NEXT** four times will go to **EDIT SAT INFO** selection

4. Press **YES** will enter **EDIT SAT INFO**

❻ Edit Satellite Information



5. Press **CHANGE** can change another satellite. Go to step6
OR Press **NEXT** go to step7

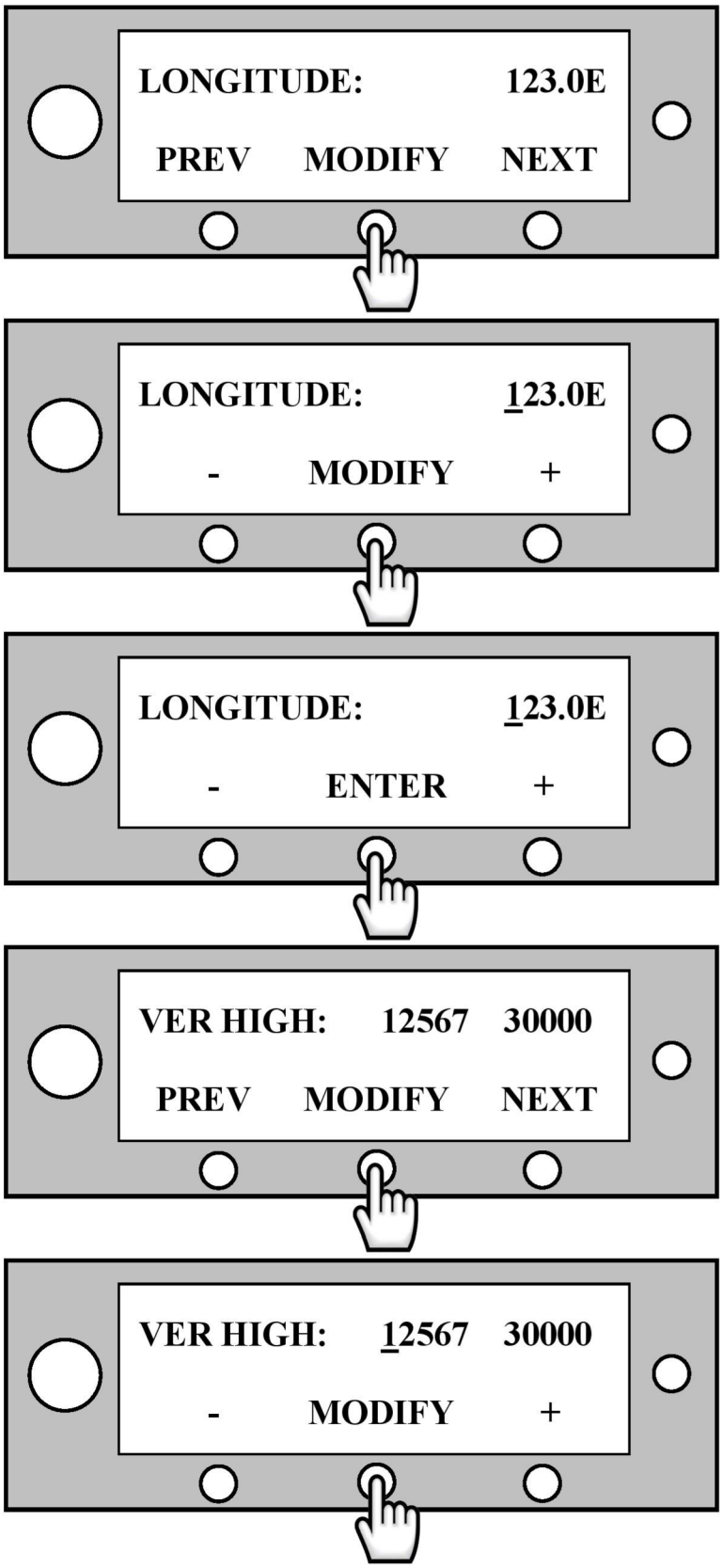
6. Press +/- can select a satellite you want to modify from the global satellite library
OR press **ENTER** will input the accept data.Go to step5

7. Press **MODIFY** can modify the satellite name. The cursor will be flashing. Go to step8
OR press **NEXT** will go to step10

8. Press **MODIFY** the cursor will stop flashing.Go to step9
OR press +/- will move the cursor.
OR press **Function** key will go to step7.

9. Press +/- will modify the bit of data where the cursor be
OR press **ENTER** will input the accept data. And the cursor will be flashing.Go to step8

❻ Edit Satellite Information



10. Press **MODIFY** can modify the satellite longitude. The cursor will be flashing.
    Press **NEXT** go to step13.

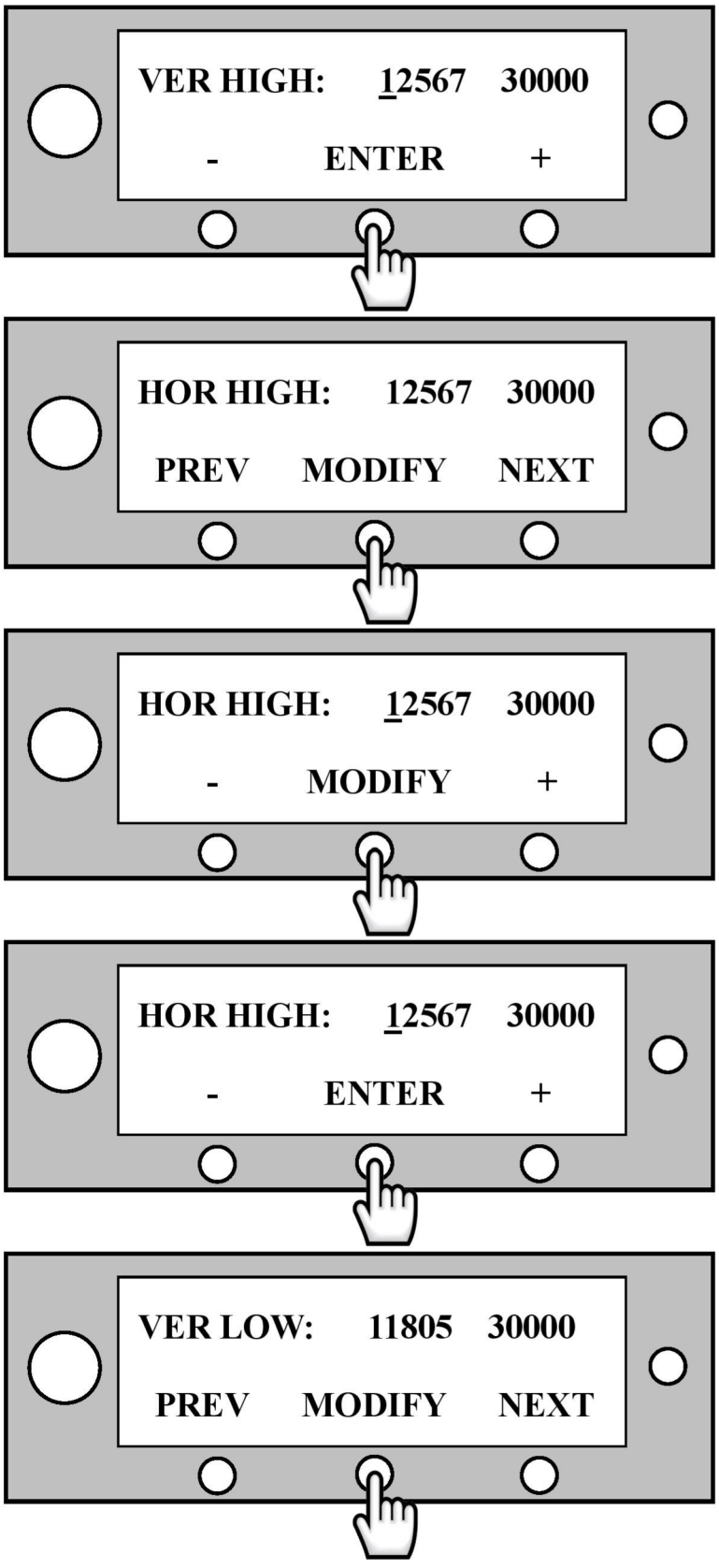
11. Press **MODIFY** the cursor will stop flashing.
    OR press +/- will move the cursor.
    OR press **Function** key will go to step10.

12. Press +/- will modify the bit of data where the cursor be.
    OR press **ENTER** will input the accept data. And the cursor will be flashing.Go to step11

13. Press **MODIFY** can modify the **HIGH VERTICAL FREQUENCY** and **HIGH VERTICAL SYMBOLRATE**
    Press **NEXT** go to step16.
    Press **PREV** go to step10.

14. Press **MODIFY** the cursor will stop flashing.
    OR press +/- will move the cursor.
    OR press **Function** key will go to step13.

❻ Edit Satellite Information



15. Press +/- will modify the bit of data where the cursor be.
OR press **ENTER** will input the accept data. And the cursor will be flashing.Go to step14

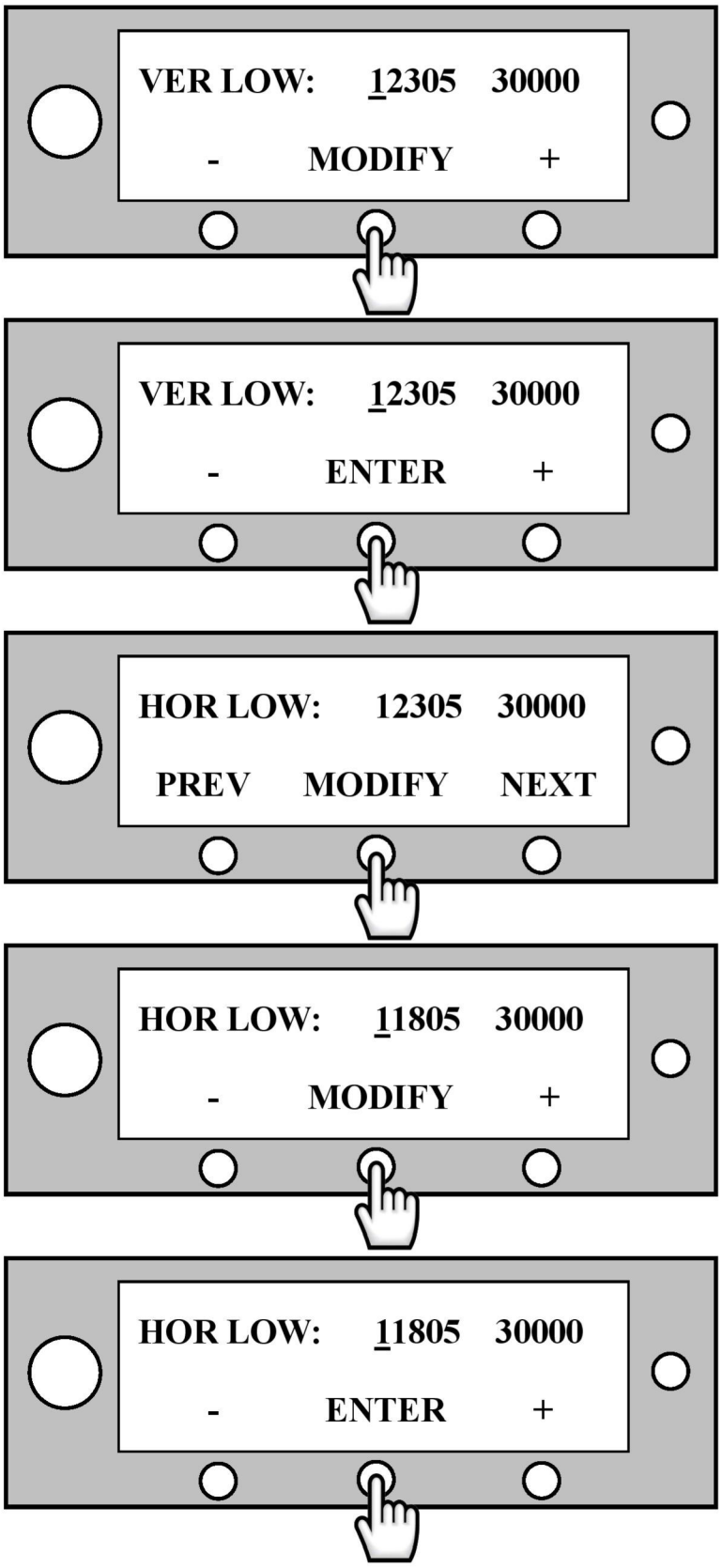
16. Press **MODIFY** can modify the **HIGH HORIZOTAL FREQUENCY** and **HIGH HORIZOTAL SYMBOLRATE**. The cursor will be flashing.
Press **NEXT** go to step19.
Press **PREV** go to step13.

17. Press **MODIFY** the cursor will stop flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step16.

18. Press +/- will modify the bit of data where the cursor be.
OR press **ENTER** will input the accept data. And the cursor will be flashing.Go to step17

19. Press **MODIFY** can modify the **LOW VETICAL FREQUENCY** and **LOW VERTICAL SYMBOLRATE**.The cursor will be flashing.
Press **NEXT** go to step22.
Press **PREV** go to step16.

❻ Edit Satellite Information



20. Press **MODIFY** the cursor will stop flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step19.

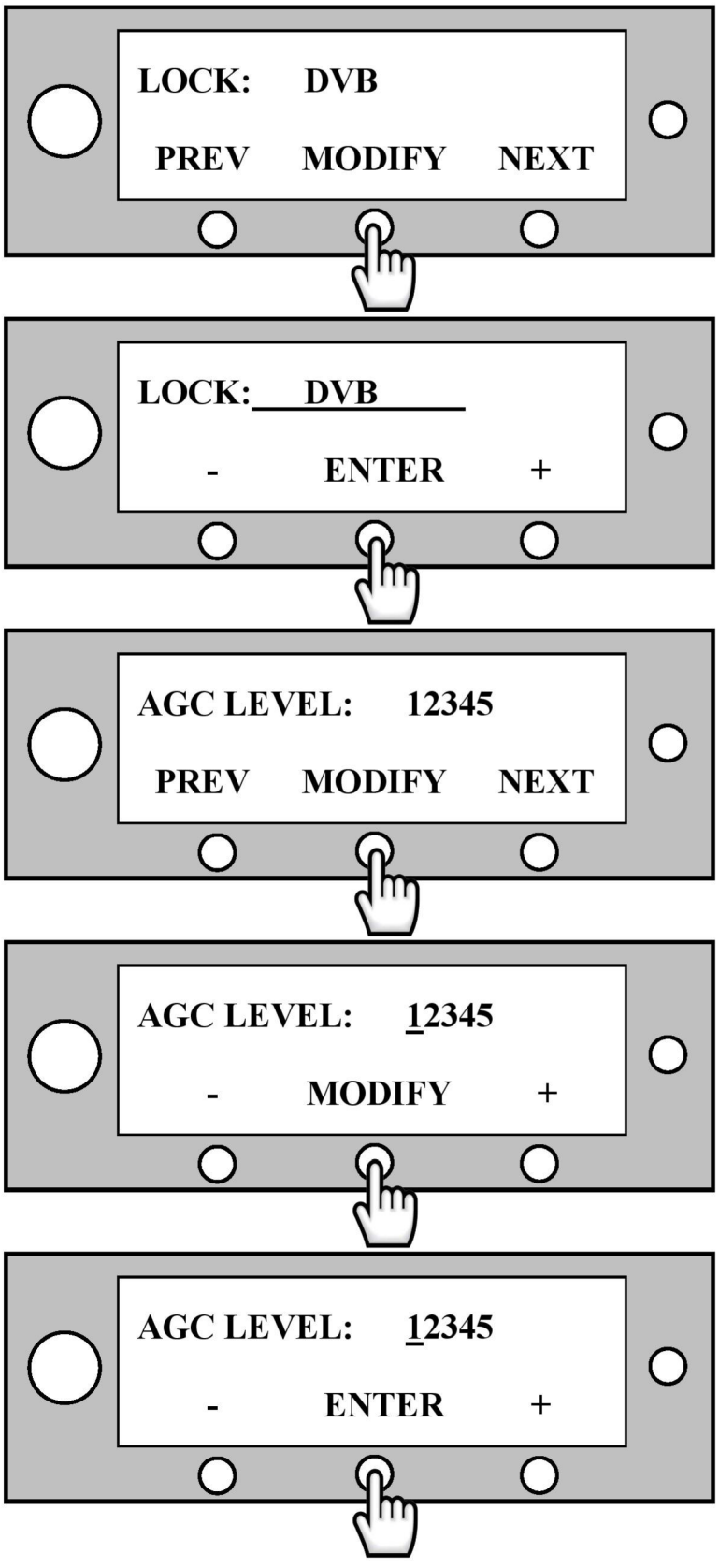
21. Press +/- will modify the bit of data where the cursor be.
OR press **ENTER** will input the accept data. And the cursor will be flashing.Go to step20

22. Press **MODIFY** can modify the **LOW HORIZONTAL FREQUENCY** and **LOW HORIZOTAL SYMBOLRATE**. The cursor will be flashing.
Press **NEXT** go to step25.
Press **PREV** go to step19.

23. Press **MODIFY** the cursor will be flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step22.

24. Press +/- will modify the bit of data where the cursor stop flash.
OR press **ENTER** will input the accept data. And the cursor will be flashing.Go to step2

❻ Edit Satellite Information



25. Press **MODIFY** can modify the demodulate lock mode
    Press **PREV** go to step22.
    Press **NEXT** go to step27.(**AGC**)
    Go to step30(**DVB**)

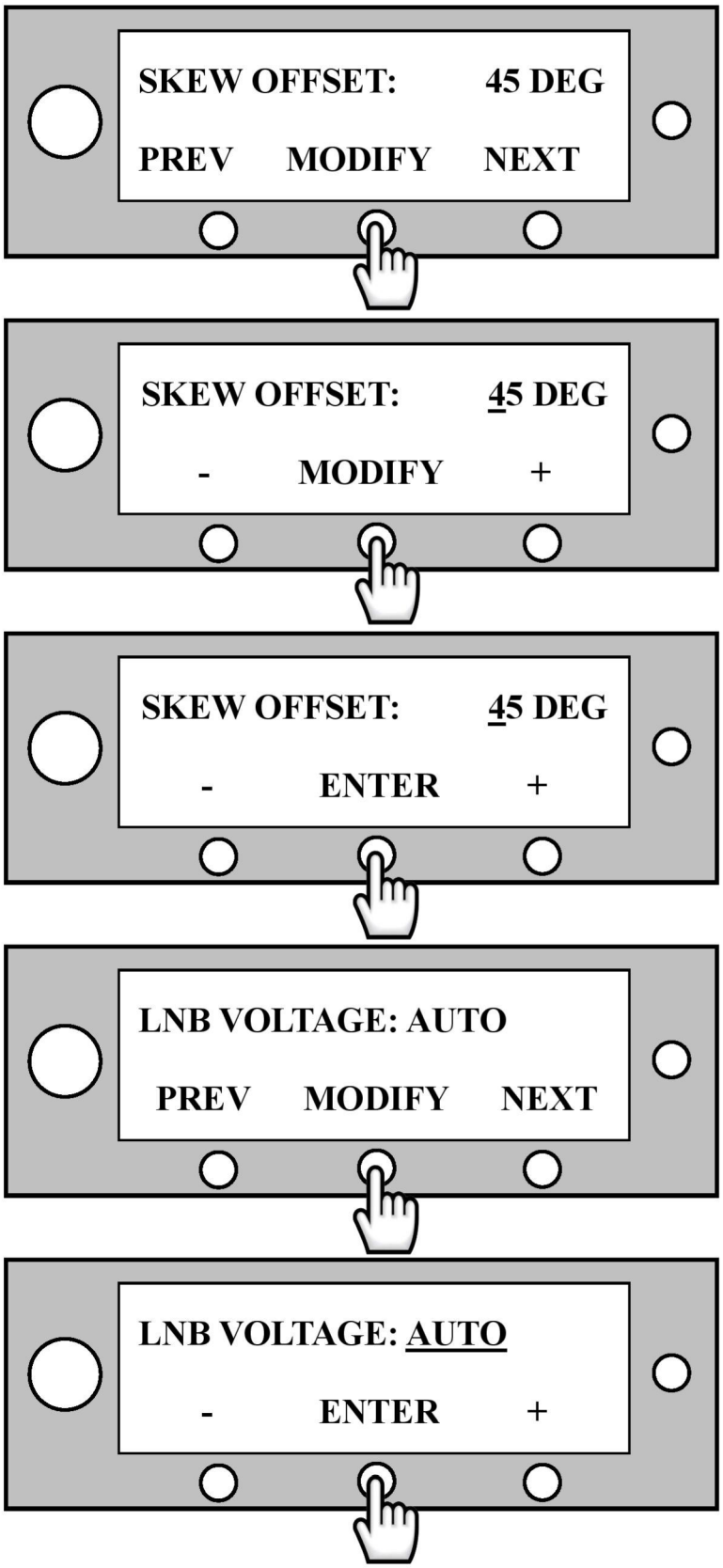
26. Press +/- will modify the data(DVB AGC ABS)
    OR press **ENTER** will input the accept data. Go to step25

27. Press **MODIFY** can modify the **AGC SIGNAL LEVEL**.The cursor will be flashing.
    Press **NEXT** go to step30.
    Press **PREV** go to step25.

28. Press **MODIFY** the cursor will stop flashing.
    OR press +/- will move the cursor.
    OR press **Function** key will go to step27.

29. Press +/- will modify the bit of data where the cursor stop flash.
    OR press **ENTER** will input the accept data. And the cursor will be flashing.Go to step28

❻ Edit Satellite Information



30. Press **MODIFY** can modify the **SKEW OFFSET**
    Press **NEXT** go to step33.
    Press **PREV** go to step27.

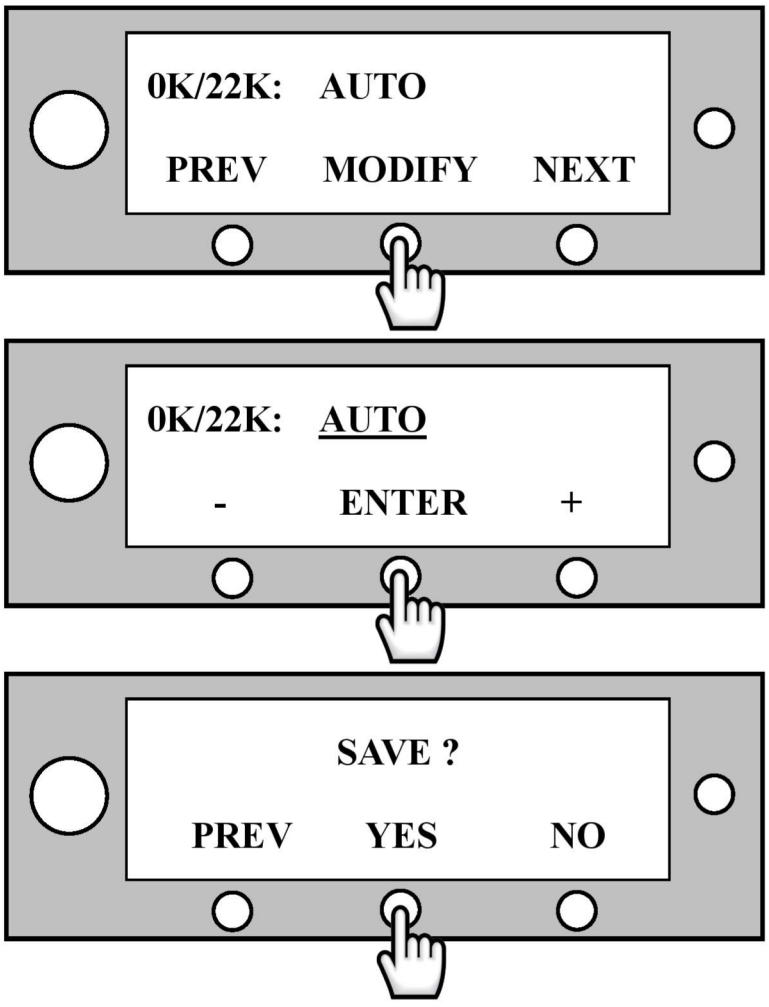
31. Press **MODIFY** the cursor will stop flashing.
    OR press +/- will move the cursor.
    OR press **Function** key will go to step30.

32. Press +/- will modify the bit of data where the cursor stop flash.
    OR press **ENTER** will input the accept data. And the cursor will be flashing.Go to step31

33. Press **MODIFY** can modify the **LNB'S VOLTAGE CONTROL MODE**
    Press **NEXT** go to step35.
    Press **PREV** go to step30.

34. Press +/- will modify the data (AUTO,13V,18V)
    OR press **ENTER** will input the accept data.
    Go to step33

❻ Edit Satellite Information



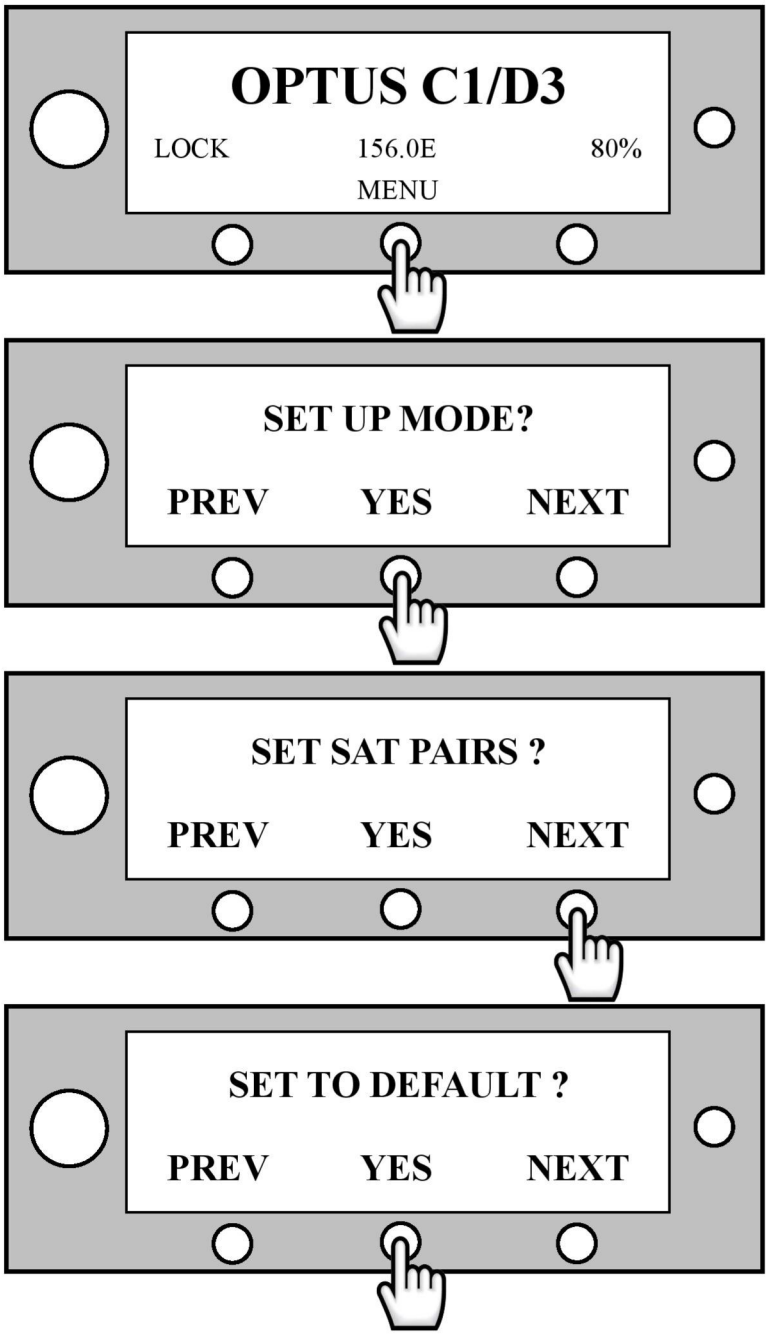
35. Press **MODIFY** can modify the **0K/22K CONTROL MODE**.
    Press **NEXT** go to step37.
    Press **PREV** go to step33.

36. Press +/- will modify the data (AUTO,0K,22K)
    OR press **ENTER** will input the accept data. Go to step35

37. Press **YES** save all the modified data
    Press **NO** cancel the modified data.
    Press **PREV** go to step35

❼ Set To Default Settings

This action will set to factory default settings. So you must confirm before you do



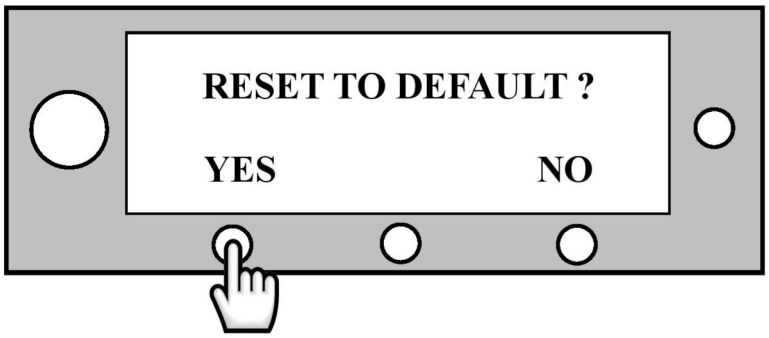
1. Press **MENU** will enter menu selection.

2. Press **YES** will enter **SET UP MODE**.

3. Press **NEXT** five times will go to **SET TO DEFAULT** selection

4. Press **YES** will enter **SET TO DEFAULT**

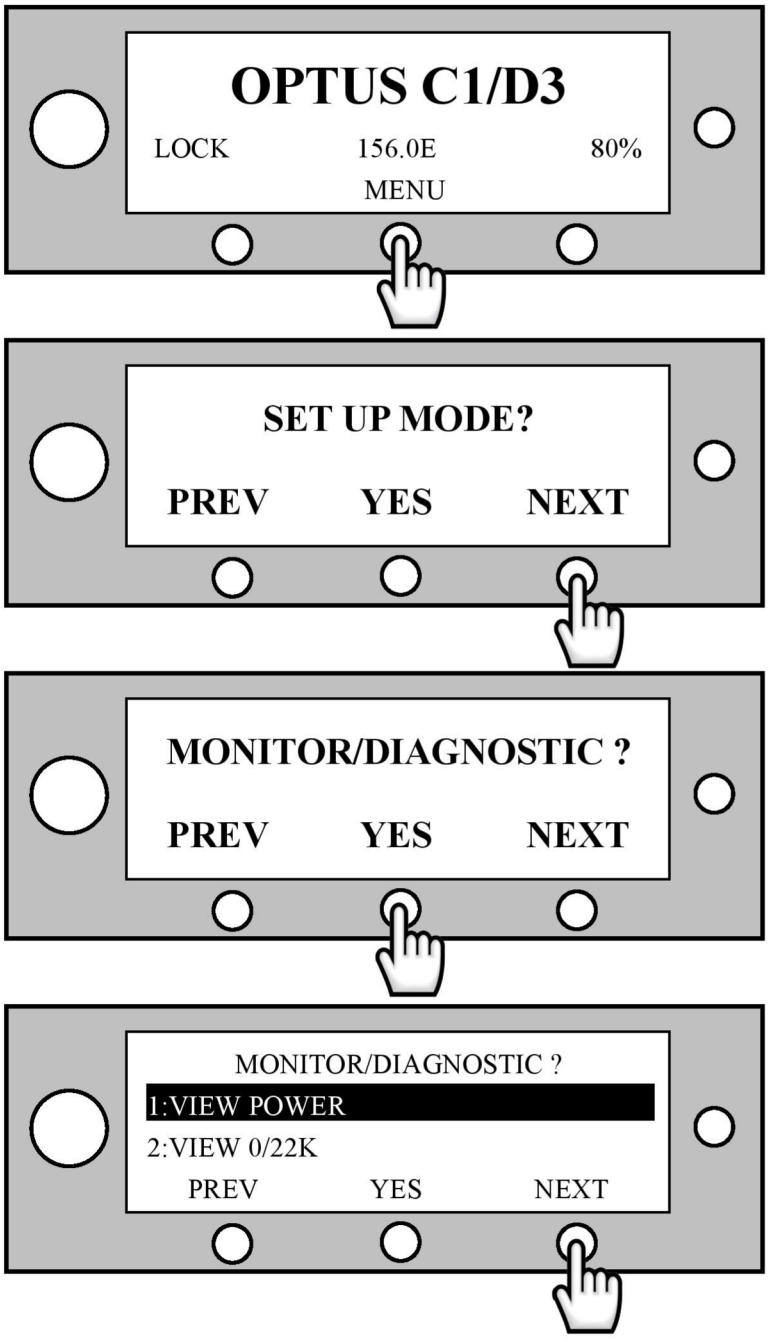
❼ Set To Default Settings



5. Press **YES** will set all the data to default setting
   Press **NO** cancel the operate.

❽ Monitor and Diagnostic

You can monitor the real-time data of the system. IDU will tell you whether the relevant data working properly or not. At the same time, It will give you some suggestions to fix it if it is faulty.



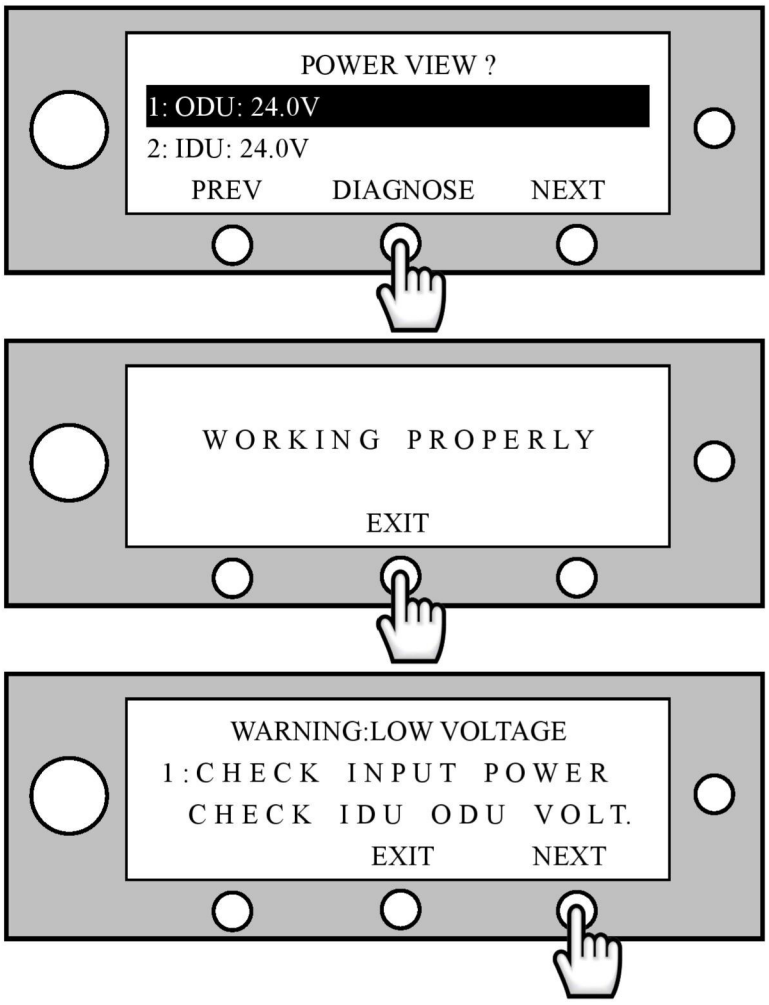
1. Press **MENU** will enter menu selection.

2. Press **NEXT** go to **MONITOR/DIAGNOSTIC** selection

3. Press **YES** will enter **MONITOR/DIAGNOSTIC** mode

4. Monitor/Diagnostic selection
   1:VIEW POWER
   2:VIEW 0/22K
   3:VIEW LIMIT
   4:VIEW GPS
   5:VIEW SAT SIGNAL
   6:EL MOVE STEP
   7:AZ MOVE STEP
   8:SKEW MOVE STEP
   9:COMMUNICATION
   10:SOFTWARE VERSION

8 Monitor and Diagnostic



5. Power View Selection
   ODU:ODU's voltage
   IDU:IDU's voltage
   STB:set top box voltage
   LNB:LNB voltage

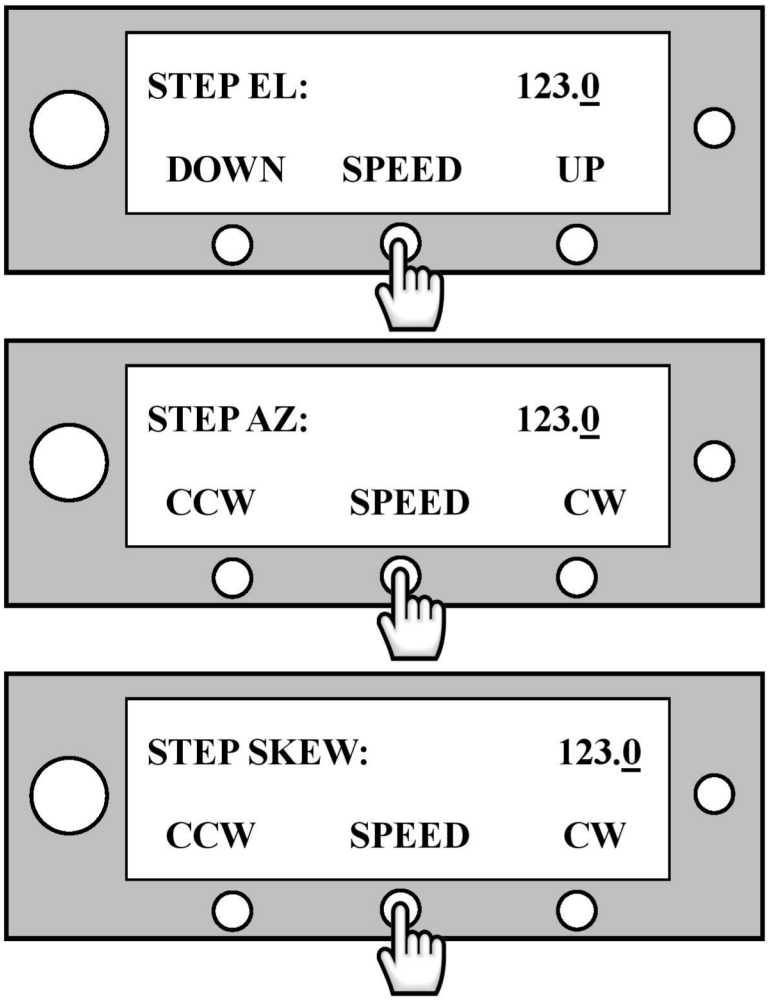
6. Prompt working properly

7. Prompt working abnormal
   Press **NEXT** view more information

❽ Monitor and Diagnostic

Manual control mode

This feature is very useful for you to control the angle of the antenna manually,include EL,AZ,SKEW.



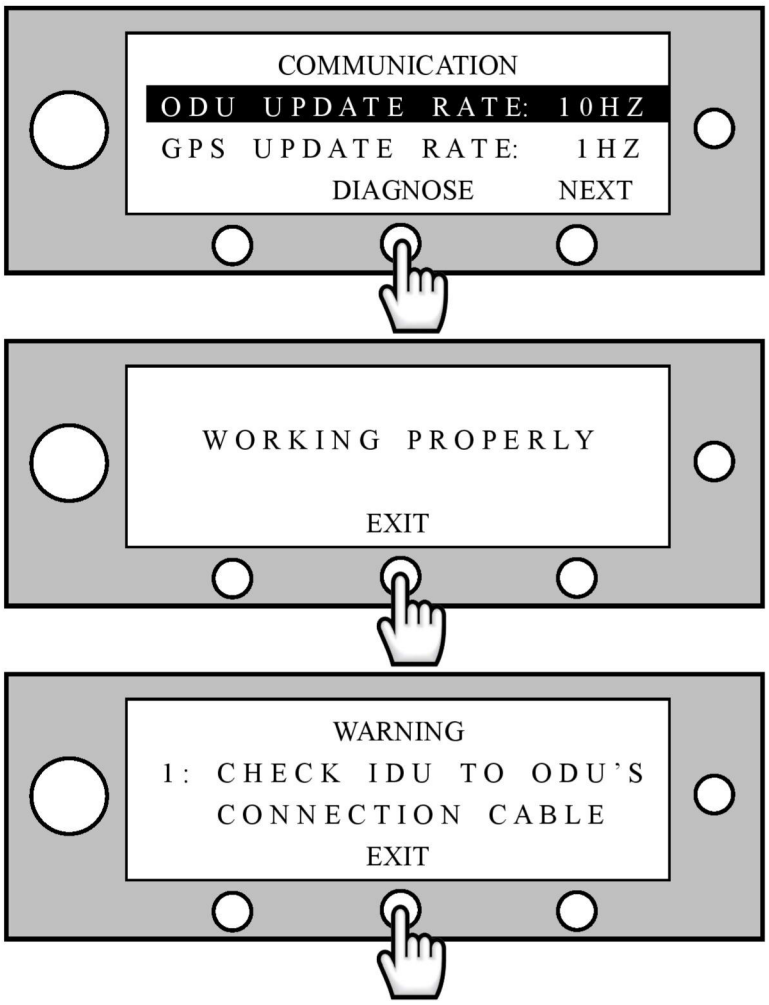
UP/DOWN: The direction of rotation
SPEED:The speed of rotation

CW/CCW: The direction of rotation
SPEED:The speed of rotation

CW/CCW: The direction of rotation
SPEED:The speed of rotation

❽ Monitor and Diagnostic

Communication

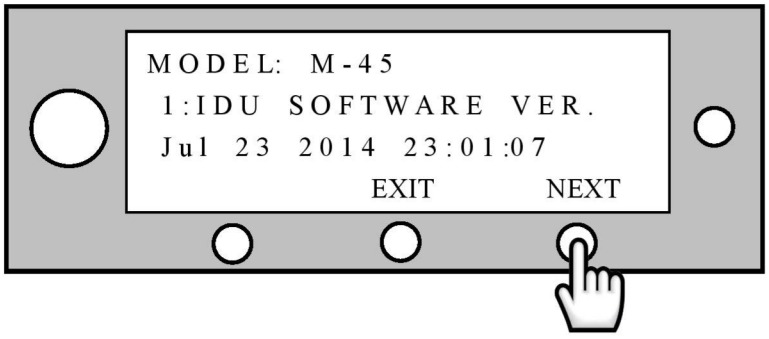


1. DIAGNOSE:View diagnostic hints

2. Prompt working properly

3. Prompt working abnormal

Software version



4. Check software version
   Press **NEXT** view more information