

§ 5.1.3. Cleaning Mirrors surface If the mirrors surface become dirty, the core position may be incorrect due to decreased optical path clarity, resulting in higher splice loss.

(1) Clean the mirror surface with an alcohol-impregnated thin cotton swab as shown in Fig.5-4. Remove excess alcohol from the mirror surface with a clean dry swab.

] Check: Use a high quality alcohol, greater than 99% pure.

(2) Mirror should be clean and smudge free.

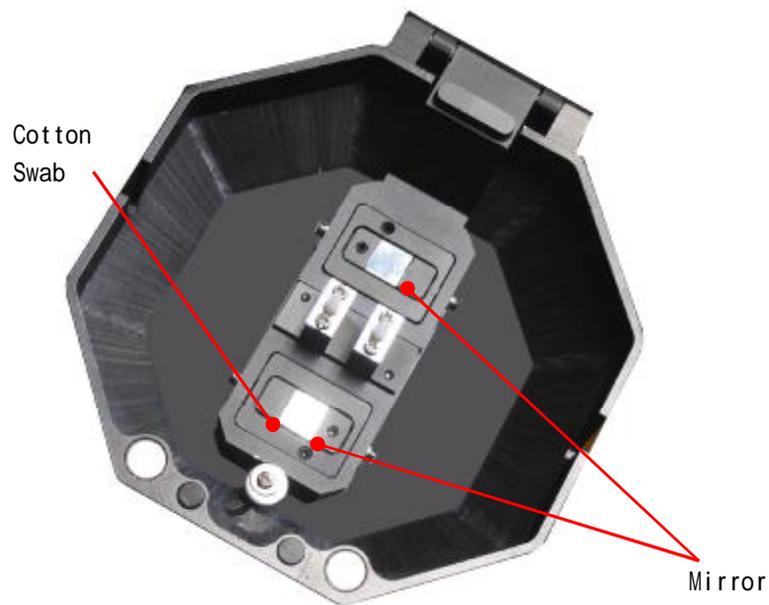


Fig.5-4 Cleaning Protector Mirrors

§ 5.1.4 Program Test

Atmospheric conditions such as temperature, humidity, and pressure are constantly changing which create variability in the arc temperature. The splicer contains a temperature, humidity, and pressure sensors that are used in a constant feedback monitoring control system to regulate the arc power at a constant level. Changes in arc power due to electrode wear and glass adhesion cannot be corrected automatically. Also, the center position of arc discharge sometimes shifts to the left or right.

Using fusion splicer at herein after conditions, Also discharge test: Highest temperature, Lowest temperature, Too desiccation, Too humidity, Electro deinferior, Different fiber connect, After cleanness and instead electrode, Or all condition are concurrence.

Arc test according to specifically fusion program request discharge intensity, Self-regulation

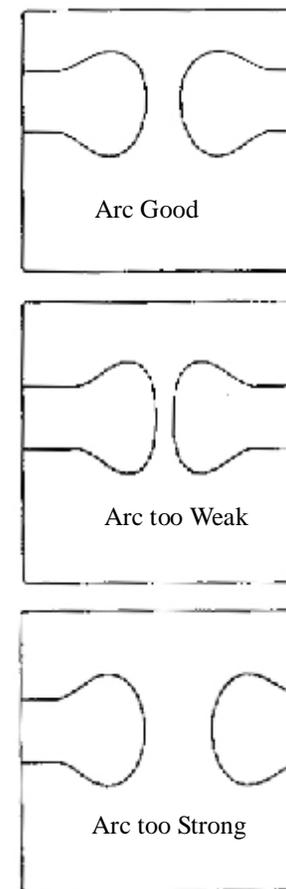


Fig.5-5 program test

discharge parameter, And seed discharge high temperature area adjust fiber center station.

Step:

- (1) Program test need twain fiber. According to commonly fusion means vs fiber stripper、sever and placed (Refer page 21 §4. 4 Preparation Fiber) .
- (2) In wait for state, Press<- (3) program test automatism adjust discharge intensity.  
Repeat test until screen display “ Arc good right ” Refer Fig.5-5 Discharge distinguish).
- (4) After program test, Press<

## § 5. 2 Periodical Checking and Cleaning

In order to maintain the splicing quality of the splicer, the points of periodical inspection and cleaning are recommended.

### § 5.2.1. Electrode Replacement

Electrodes wear with use and also must be cleaned periodically due to silica oxide buildup. It is recommended that the electrodes should be replaced after 1,000, a message prompting to replace the electrodes is displayed immediately after turning on the power. Using the electrodes without a replacement will result in higher splice loss and reduced splice strength.

Note: Arc discharge count alarm for electrode replacement may be changed.

Replacement Procedure

- (1) Exit having program, After finish having opration, Close the power supply.
- (2) Remove the old electrodes. For the method of replacement, refer to Fig.5-6.
- (3) Clean the new electrodes with alcohol-impregnated clean gauze or lint-free tissue and install them to the splicer.  
] Check: Use approved electrodes WY-725-05 for WY-725  
] Check: Be careful not to damage the electrode shaft or tips when cleaning and installing in the splicer, Any damaged electrodes should be discarded.  
] Check: When installing the electrodes, tighten screws no more than finger tight while pushing the electrode collars against the electrode fixtures, Incorrect installation of the electrodes may result in greater splice loss or damage to the circuit.
- (4) Turn on the power, prepare and load fibers into the splicer,  
  
In wait for state, Press<

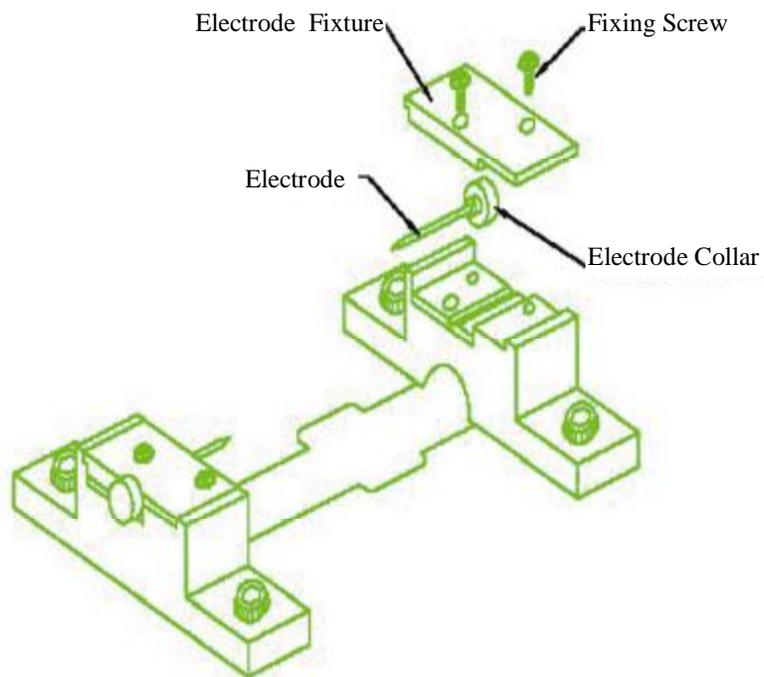


Fig.5—6 Replacing Electrodes

### § 5. 2. 2. Cleaning Objective Lenses

If the surfaces of the objective lenses become dirty, normal observation of the core position may be incorrect, resulting in higher splice loss or poor splicer operation. Therefore, clean them at regular intervals. Otherwise, dirt may accumulate and become impossible to remove.

(1) Before cleaning the objective lenses, always turn off the splicer.

(2) Remove the front and rear electrode covers.

(3) Gently clean the lens surface with an alcohol-impregnated thin cotton swab as shown in Fig.5-11. Using a cotton swab, starting in the center of the lens, move the swab in a circular motion until you spiral to the edge of the lens surface. Remove excess alcohol from the mirror surface with a clean dry swab.

] Check: Use a high quality alcohol, greater than 99% pure.

] Check: Be careful not to bend the electrodes.

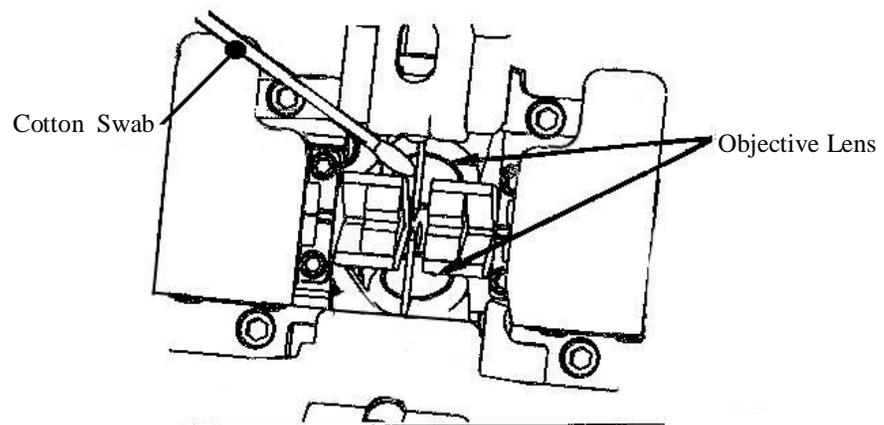


Fig.5-7 Cleaning Objective Lenses

- (4) The lens surface should be clean and smudge free.
- (5) Reinstall the front and rear Electrode covers.
- (6) Turn on the power and make sure no smudges or streaks are visible on the monitor screen.

# § 6. Menu Commands

## § 6. 1 Menu Commands Tree

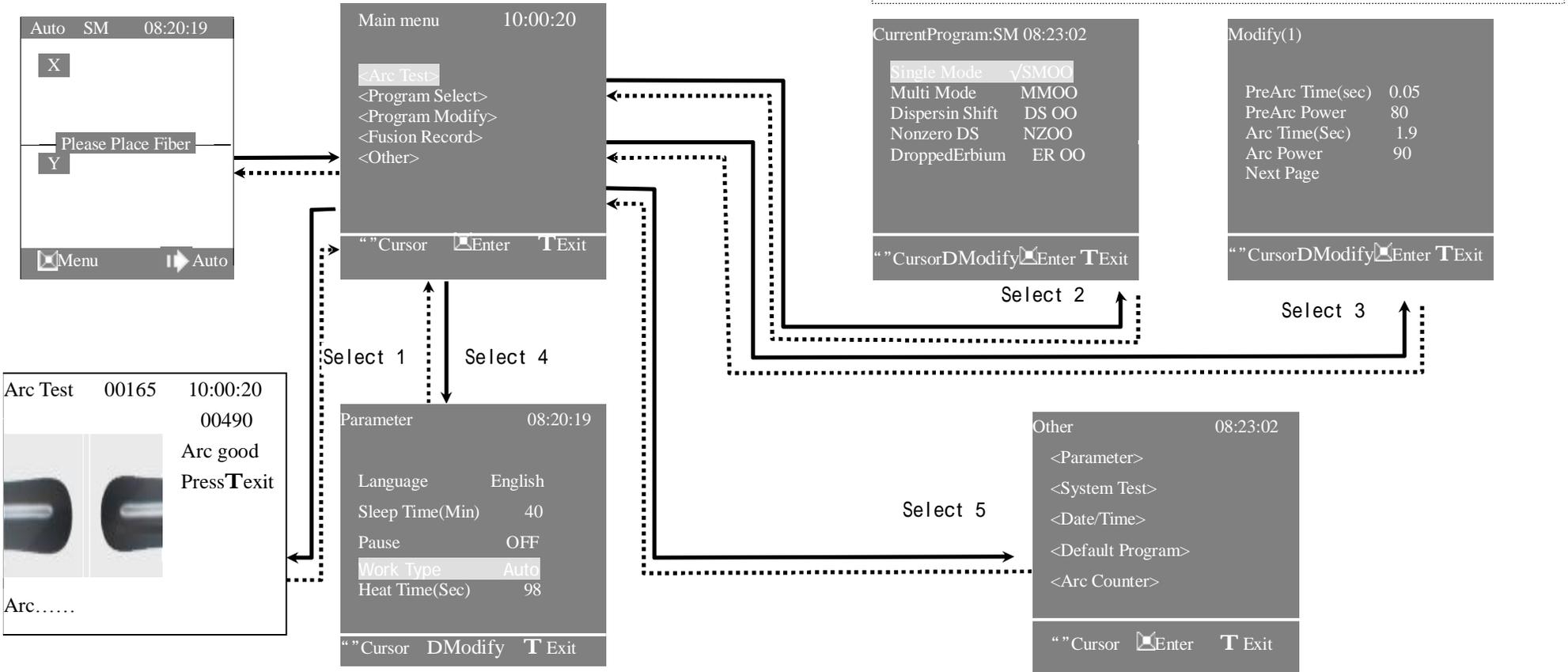


Fig.6-1

§ 6. 2 Program Test

(1) Program test system inside the fusion splicer. User should timing operation in order to insure fusion quality steady. Using fusion splicer at hereinafter conditions, Also need Program test: Highest temperature、Lowest temperature、 Too desiccation、 Too humidity, Electrode inferior, Different fiber connect, After cleanness and instead electrode, Or all condition are concurrence.

(2) Program test according to specifically fusion program request intensity, Self-regulation arc parameter, And seed discharge high temperature area adjust fiber center station.

(3) Program test need twain fiber. According to commonly fusion means vs fiber stripper、sever and placed (Refer page 21 § 4.4 Preparation Fiber

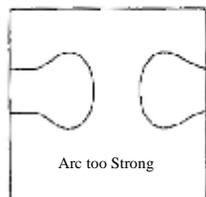
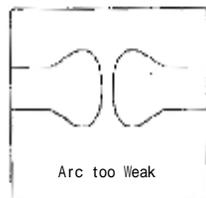
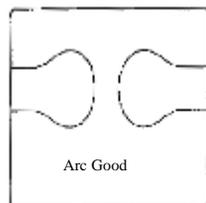
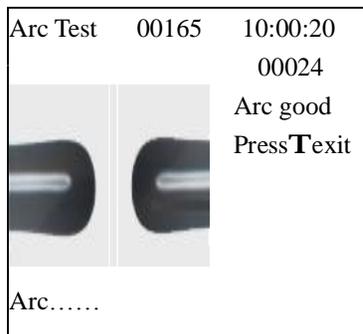


Fig.6-2 Program Test

(4) In wait for state, Press <F1> key enter “Main Menu” ,move to “ Program Test”, Press <F1> key start program test.

(5) program test automatism adjust arc intensity. Repeat test until screen display “Arc good” , (Refer to Fig. 6-2) .

(6) After Program test ,Press <F4> key exit and return automatism splicing state.

§ 6.3 Working Style

In wait for state, “ Main Menu” → “other” → “Parameter” → “work type” , Press “←” or “→” key to select Manual or Auto.Press <F4> key exit.

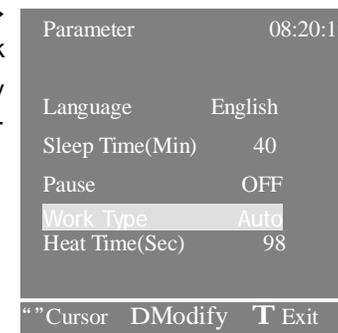


Fig.6-3 Work Style

§ 6. 3. 1 Auto Mode

Auto working for groovy automatism fusion and result check fashion. Clean and sever fiber, Fusion program automatism process. In gear operation commonly select this fashion

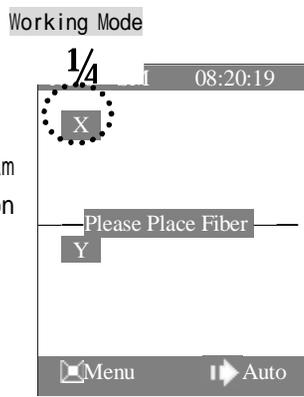


Fig.6-4 READY Screen

§ 6. 3. 2 Manual Mode

This fashion shall discharge fusion step change operator control . After placed the fiber, each step action by operator using keyset control .

Key	Name	Function
	Alternate	Manual: Alternate L/R,up/down
	Down	Manual: Move fiber down
	Up	Manual: Move fiber up
	Right	Manual: Move fiber right
	Left	Manual: Move fiber left

a Note: At the Manual mode, Not display loss.

§ 6. 4 Selects Program

In waiting state, “mail menu” →, “Program select” → “Current Program” (Fig.6-5),Move cursor to fiber type, Press “” or “” key to select appropriate program(Fig.6-5) Press <>key exit.

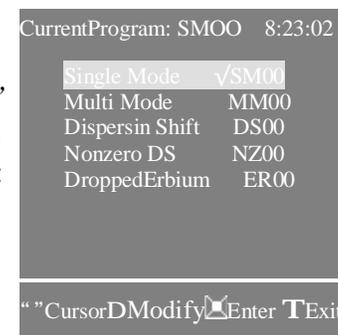


Fig.6-5 .6 kinds type fiber type

Fiber type	Meaning	Program
SM	Single mode	SM00-SM15
MM	Multi mode	MM00-MM15
DS	Dispersion shifted	DS00-DS15
NZDS	Non-zero Dispersion shifted	NZ00-NZ15
EDF	Erbium doped fiber	ER00-ER15

a Note: Different fiber should select conformable fiber type program, Otherwise shall arouse waste value augment or splicer be defeated.

§ 6. 5 Program Modify

In waiting state, “Main menu → “Program Modify” → “Modify” (Fig .6-6) submenu. Move cursor to parameter .Press “←” or “→” key to modify parameter value, Press<☒> key exit.

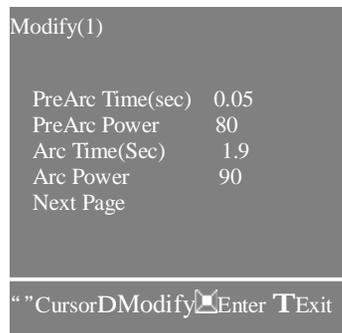


Fig.6-6

Function	Function Explain	Value area
PreArc Time	Prefuse Time	0~2.55
PreArc Power	Prefuse Power	0~255
Arc Time	Fusion arc time	0~25.5
Arc Power	Fusion arc power	0~255
Forward	Fiber move forward in fusion time	0~60
Forward Speed	Fiber move speed in fusion time	1~10
Cleave Angle	Fiber incise end-face angle	0~6.5

Note: Only parameter of program oo can be modified, parameter of program 01-15 is fixed by factory.

§ 6. 6 Heat Time

In waiting state, “Main menu”, → “other” → “Parameter” . Move cursor to “Heat time” (Fig.6-7), Press “←” or “→” key to change the parameter. Press <☒>key exit.



Fig. 6-7 Heat Time

§ 6. 7 Other

This submenu matter mostly some assistant function and maintenance function.

In waiting state, “Main Menu” → “other” (Fig.6-8), Press<☒>key screen display “ Other ” submenu.Press<☒>key exit.

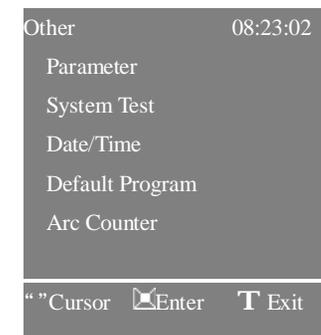


Fig. 6-8 Other

§ 6. 7 . 1 Date/Time

Select this operation, to renew date and time. “Main menu” → “other” → “time” (Fig.6-9), Move cursor to year, press “←” or “→” key to change the parameter. Press<⌫>key exit.

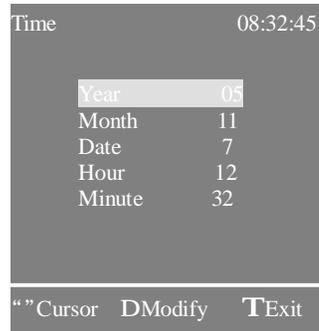


Fig. 6-9 Date/Time

§ 6. 7 . 2 Arc Counter

Select this operation, to examine fusion splicer total Arc Counter. “Main menu” → “other” → “Arc Times” (Fig.6-10), Press<⌫>key to clear arc counter.



Fig.6-10 Arc Counter

§ 6. 7 . 3 Fusion Record

In waiting state , “Main menu” → “other” → “ Arc Counter”→“Record”(Fig.6-11) Select this operation, to examine newly Fusion Record.

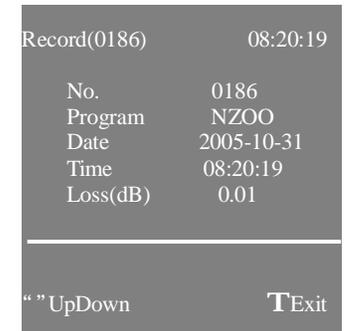


Fig. 6-11 Fusion Record

(1) System Test

In waiting state “ Main menu” → “other” → “System test” Press<⌫>key ,System automatism inspect the parts of machine(Fig.6-12).

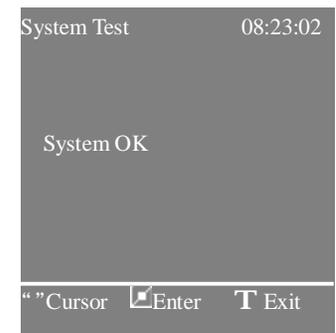


Fig. 6-12 System Test

(2) Pause

In waiting state ,“Main menu” → “other” → “Parameter” Move cursor to “pause” (Fig.6-13), Press “←” or “→” key to “On” or “OFF” . Press<☒>key exit.

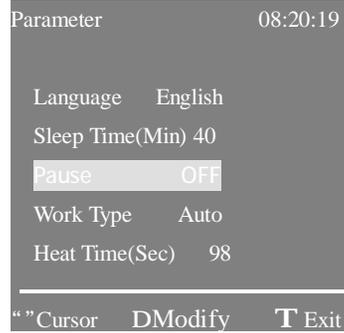


Fig.6-13 pause

(3) Load default

In waiting state ,“Main menu” → “ program select ” → “ Current Program ” ,move cursor to the parameter, Press<☒>key, select “Yes” or “No” . If select “Yes” , Press<☒>key ,splicer will restore program “oo” default parameter fixed by factory. Press<☒>key exit.

Note: this operation is valid just for program “oo” .

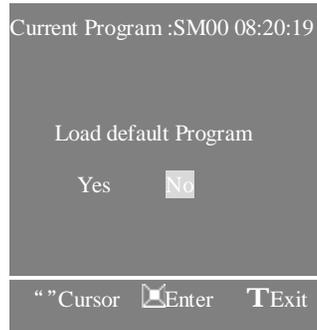
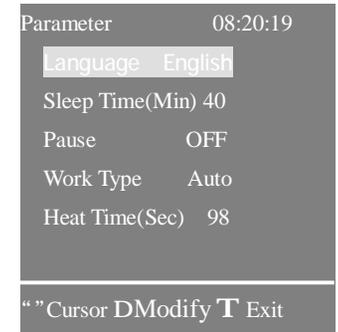


Fig. 6-14 Load default

(4) Language

In waiting state, “Main menu” → “other” → “Parameter” Move cursor to language(Fig.6-15), Press “←” or “→” key to select: “Chinese” or “English” . Press<☒>key save new value.



§ 6. 8 Exit

After change parameter value and press <☒>key exit.

Fig. 6-15 Language

## § 7. Transportation and storing

### § 7. 1. Warnings and Cautions for transportation

Fiber fusion splicer is a precision machine, via a exactitude adjust and level. Do not come under strong shake or collide or else work mangle. Using the carrying case transportation or storing, The carrying case be capable of protect the facility prevent mangle、Shake、Concussion.

Check the aiguillette and pothook before used the aiguillette schlep , Or else induce the person damage or the facility mangle.

Do not set the fusion splicer at a instability or lopsided station, Or else be able to lose the facility balance and induce mangle.

If consign the equipment facility, Put in the carrying case and detach bale of the battery, When bale, The fusion splicer placed upwards and indicate the upwards mark, And inform the advertent item in time. For example: moistureproof、Fireproofing、Defend high temperature、Defend inversion、Defend collide

### § 7. 2. Storing require

(1)Check the thing whether complete in the carrying case or has damnification at the transportation, Mostly components comprise:

No.	Name	Model	Count
(1)	Arc Fusion Splicer	WY-725	1
(2)	Li-Battery	WY-725-01	1
(3)	AC adapter	WY-725-02	1
(4)	AC Power Cord	WY-725-03	1
(5)	charger	WY-725-04	1
(6)	Spare Electrodes	WY-725-05	1
(7)	Instruction Manual	WY-725-06	1
(8)	Carrying Case	WY-725-07	1
(9)	Cooling salver	WY-725-08	1
(10)	Charger Cord	WY-725-09	1
(11)★	DC Power Cord	WY-725-10	1
(12)★	DC adapter	WY-725-11	1

Note: ★Optional

(2) Fusion splicer is an exact and expensive instrument, Should set secure condition and commissioner safekeeping ;

(3) Advice battery charge once of each month. If longer time nonuse, Also battery charge fix a date with prolong employ life.

§7. 3. Storing fusion splicer

Put in carrying case in time of the fusion splicer after fusion.

(1) Cut off the power before storing.

(2)Cleaning the crucial parts in time: Pickup camera、Lamp-house lens、Fiber press and V-groove, Wipe off the dust and dunghill.

(3) Would the LCD surveillance screen vertical vail, Entireness cling to the fusion splicer.

(4) Unchain the having line put in the carrying case.

(5) Lift the fusion splicer cased the carrying case.

(6) Cased the expendable, Lid and button the carrying case.

a Note: Eliminate cleanlily the liquid in the bottle in time if the alcohol bottle in the carrying case . For fear spill influence the facility.

§ 8.Error Message List

Follow the remedy precisely as shown in the following lists. If it is not possible to eliminate the problem, there is the possibility of the splicer being faulty and the splicer may require service. Consult your nearest us with the following information:

- Model name of the splicer
- Serial number of the splicer
- Error message
- Situation when the error occurs

No	Error Message	Reason	Remedy
01	Replace Left fiber	• The left fiber is set too far back.	• Reset, Moves left fiber forward
	Replace Right fiber	• The right fiber is set too far back.	• Reset, Moves right fiber forward
	Replace both fiber	• The left or right fiber is set too back.	• Reset, Moves left/right fiber all forward • Reset, Moves left or right fiber forward

No	Error Message	Reason	Remedy
02	Left cleave bad Right cleave bad	<ul style="list-style-type: none"> <li>• Bad fiber end-face</li> <li>• Dust or dirt on the fiber surface.</li> <li>• “End-face angle” set up too strict</li> <li>• Dust or dirt on the objective lens or the wind protector mirror.</li> </ul>	<ul style="list-style-type: none"> <li>• Check the condition of fiber cleaver. When the blade is worn, rotate the blade.</li> <li>• Put “End-face angle” loose to suitable degree</li> <li>• Anew preparation fiber</li> <li>• lean the lens or mirrors</li> </ul>
	Both cleave bad		
03	Please close the wind protector	<ul style="list-style-type: none"> <li>• Unable to start splicing when the wind protector opens.</li> </ul>	<ul style="list-style-type: none"> <li>• The splicer automatically starts splicing after closing the wind protector</li> </ul>
		<ul style="list-style-type: none"> <li>• The wind protector is opened during splicing operation.</li> </ul>	<ul style="list-style-type: none"> <li>• Press&lt;  &gt;reset after closing the wind protector</li> </ul>
04	Fusion failure	<ul style="list-style-type: none"> <li>• The fiber stuff amount is insufficient.</li> </ul>	<ul style="list-style-type: none"> <li>• Increase stuff amount in the parameter setup menu</li> </ul>
		<ul style="list-style-type: none"> <li>• The pre-fuse power is too strong.</li> </ul>	<ul style="list-style-type: none"> <li>• Minish pre-fuse power in the parameter setup menu</li> </ul>