C series, I series
S Series, V Series

Description of service parameters
SD Touch panel

Service menu SD Touch

(level1=user, 2=baker, 3=service, 4=adm)
(pin code level 1=1111, 2=5555, 3=9999, 4=xxxx)

Tab	Name	Level	Default	Area	Available in
User	**Language** *Current language*	1,2,3,4			C,V,S,I
	Clock *Time setting*	1,2,3,4			C,V,S,I
	Date *Date setting*	1,2,3,4			C,V,S,I
	Manual steam time Time steam cycle at start-up manual baking	1,2,3,4	0s	0-90s	C,V,S,I
	Manual time Pre-set time for manual baking	1,2,3,4	10 min	0-99 min	C,V,S,I
	Manual temp Pre-set temp for manual baking	1,2,3,4	200C	C=0-330, V=0-350, S=0-300, I=0-350	C,V,S,I
	Fan pause after steam *Time that the oven chamber fan is idle after steaming. (applies to manual baking)*	1,2,3,4		20s	C,V,S,I
	Baking finished alarm (on/off) *Enabling/disabling of sound signal when baking finished*	1,2,3,4			C,V,S,I
	Ready to bake signal *Time for signal when the actual value temperature has been reached*	1,2,3,4	2s	0-30s	C,V,S,I
	Shop running *When active = only possible to use existing recipes. (only possible to interrupt the recipe or to extend the time)*	2,3,4			C,V,S,I
	Recipe Password *When set to on, PIN code required to change the recipe.*	2,3,4		off	C,V,S,I
	Fahrenheit scale *When active = all temperature values switch to Fahrenheit.*	3,4			C,V,S,I
Oven	**Delayed fan at door closing** *Time for delay of fan and heat start-up at door closing. This prevents the fan and heat from starting immediately following door closing as these still cut out at the start of the baking program with steaming.*	2,3,4	2s	0-30s	C,V,S,I
	Max temperature *Upper limit for adjustable temperature*	2,3,4		C=0-330, V=0-350, S=0-300, I=0-350	
	Fan time when airing *Time the fan/fans continue to run after switching off the oven*	2,3,4	120 min (60 min S+C)	0-999 min	C,V,S,I
	Damper time when airing *Time that the damper is open after shut-down of the oven*	2,3,4	120 min (60 min S+C)	0-999 min	C,V,S,I
	Service interval *Number of hours until the alarm for service.*	3,4	0h		C,V,S,I
	max steam time *The time specifies the maximum time that is possible to set for the steam for manual and recipe programming*	3,4	30s	0-90s	C,V,S,I
	Delay of heating group 2 *Time difference for switching between heating groups 1, 2 and possibly 3 when the oven calls for heat. Heating group 1 always turns on first. (group 3, if present, turns off with group 2)*	3,4	3s	0-30s	C,V,S,I
	Hysteresis for temperature *Temperature difference between on and off for heat outputs. The temperature is allowed to drop by this value before the temperature outputs switch on again.*	3,4	2C	0-10C	C,V,S,I

	Name	Level	Default	Area	Available in
	Temp diff heating groups *The difference in temperature between heating groups 1 and 2 (E.g. if set to 5, this means that heating group 2 breaks 5 degrees before group 1, heating group 1 breaks when the set point value is reached (if present, group 3 runs at the same time as 2)*	3,4	5C	0-20C	C,V,S,I
	Temperature calibration *If the actual value of the temperature on the display does not match the measured temperature in the oven chamber, the display value can be corrected. E.g. if the display shows 250C and the temperature in the oven chamber = 240C, -10C is to be entered.* *This means that the oven will increase by 10C at the actual value 250C.*	3,4	0C	-20/20	C,V,S,I
	Temp readings balance *% value specifies how much is to be read from the upper sensor in relation to the lower*	3,4	50%	0-100%	V,I
	Delete all recipes *Button to delete the entire recipe bank.*	3,4			C,V,S,I
Baking	**Cake function** *Enables/disables the function*	2,3,4			C,V,S,I
	Cake fan time on *Time that the oven chamber fan is on when the Cake option is selected. Cake means that the fan pulsates during baking.*	2,3,4	20s		C,V,S,I
	Cake fan time off *Time that the oven chamber fan is off when the Cake option is selected. Cake means that the fan pulsates during baking.*	2,3,4	20s		C,V,S,I
	Cake active period *The duration of the cake function as % of total baking time. E.g. if set to 50 % and the baking time is 40 minutes, this means that the cake function is active for 20 minutes. (seen from the start of baking) only for recipes*	2,3,4	50%		C,V,S,I
	Rotating left *Time specifies how long the hook/platform rotates to the left when the baking program is running. Tiden ändras slumpvis med ± 10%.*	2,3,4	70s	0-99 min	C,V,S,I
	Rotating right *Time specifies how long the hook/platform rotates to the right when the baking program is running. Tiden ändras slumpvis med ± 10%.*	2,3,4	60s	0-99 min	C,V,S,I
	Pause when reversing rotation *Time specifies how long the hook/platform is idle between left and right turns when a baking program is running.*	2,3,4	2s	0-10s	C,V,S,I
	Steam valve 2 open when steaming *Time the solenoid valve 2 is on at the beginning of each steam phase.*	3,4	V=0/I=15	0-30s	V,I
	Delay of heating shut-down *Time specifies how long the heat outputs are active after the door is opened (assumes that the oven calls for heat)*	3,4		0-45s	C,V,S,I

	Name	Level	Default	Area	Available in
	Rotation only when baking (on/off) *Active button = hook/platform only rotates when running the beam program, idle at other times*	2,3,4			C,V,S,I
	Industrial catering *Enables/disables the function*	2,3,4	off		C,V,S,I
	Industrial catering>period *Cycle time for steam pulse in seconds*	2,3,4	10s	0-999s	C,V,S,I
Use half-rack		3.4	off	on/off	C,V,S,I
	If activated, multiply the factors below by the set value. This is to make it easy to change the requirements if the rack is not filled with products. E.g. for a temperature of 250°C multiply by a factor of 0.8 = 200°C.				
	Half-rack: Temperature factor *The factor the temperature will be multiplied by.*		1.0	0.1-1.0	
	Half-rack: Baking time factor *The factor the baking time will be multiplied by.*		0.9	0.1-1.0	
	Half-rack: Steam time factor *The factor the steam time will be multiplied by.*		0.9	0.1-1.0	
	Half-rack: Damper time factor *The factor the damper time will be multiplied by.*		1	0.1–1.0	
Speed	**Rotation frequency converter (on/off)** *Enabling the rotation converter if installed*	4	off		C,V,I
	Rotation acc. time *Time for acceleration of hook/platform to the set value (at start up, door closing and reversing)*	3,4	4000ms	0-20s	C,V,I
	Rotation dec. time *Time for deceleration of hook/platform at reversal*	3,4	4000ms	0-20s	C,V,I
	Rotation dec. time door open *Time for deceleration of hook/platform when braking stop home position, at open door*	3,4	500ms	0-20s	C,V,I
	Rotation speed manual baking *Speed at which the hook/platform will rotate at during manual baking.*	2,3,4	100%	35-140%	C,V,I
	Rotation speed door open *Speed at which the hook/platform will rotate at open door.*	3,4	80%	35-140%	C,V,I
	Fan frequency converter (on/off) *Enabling the fan converter if installed.*	4	off		C,V,I
	Fan speed manual baking *The speed in % that the fans will maintain when manual baking.*	2,3,4	100%	80-140%	C,V,I

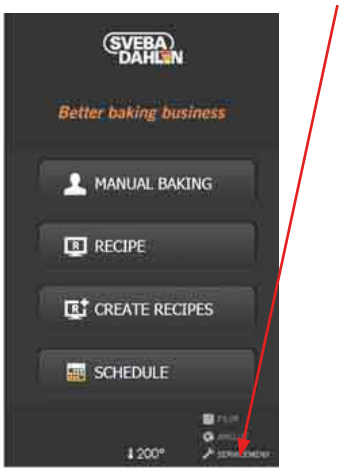
	Name	Level	Default	Area	Available in
Energy	**Time energy saving mode** *Time specifies how long the oven can be unused before the energy saving feature is turned on (disconnected when touching the screen)*	1,2,3,4	60 min	0 -999 min	C,V,S,I
	ECO mode *When on = energy mode, off = screen saver only (if time is set other than 0)*	2,3,4	off		
	Temperature energy saving mode *Specifies the temperature to which the oven is allowed to fall to when energy saving has begun*	1,2,3,4	100C	C=0-330, V=0-350, S=0-300, I=0-350	C,V,S,I
	Fan speed energy saving mode *percentage specifies the speed of fans after the energy saving function has begun*	1,2,3,4	80%	80-140%	
	ECO mode Control off *If set to on, the control relay is off when energy saving on.*				
	Backlight timeout *Time until the backlight in the screen saver dims after energy saving has begun*	1,2,3,4	1 min	0 -999 min	C,V,S,I
	Backlight energy saving mode *percentage specifies the strength of illumination in the screen saver after backlight timeout has begun*	1,2,3,4	15%	0-100%	C,V,S,I
	Output AC1 *Enter output heating group 1*	2,3,4	0kW		
	Output AC2 *Enter output heating group 2*	2,3,4	0kW		
	Output AC3 *Enter output heating group 3*	2,3,4	0kW		
	Cost of 1000kWh *Option of setting the relevant energy price*	2,3,4	0		
	Clear energy graph *Cap for clearing data in the energy graph*	2,3,4			
Functions	**AES fan (on/off)** *Enabling/disabling of AES fan.*	3,4		off	C,V,I
	AES on when baking finished (on/off) *If enabled, the AES fan will start when baking is finished, and stop when time has expired.* *If disabled, the fan will start when the door opens, and stop when the time has expired.*	3,4		off	C,V,I
	AES fan time *Time that the AES fan will be running after start-up.*	3,4		0-99 min	C,V,I
	Fan canopy (on/off) *Enabling/disabling of fan canopy.*	3,4		off	C,V,S,I
	Time fan canopy *Time that the AES fan will be running after door opens.*	3,4		0-99 min	C,V,S,I
	Use rotation stop (on/off) *Enabling rotation stop if installed.*	3,4		off	C,V,S,I

	Name	Level	Default	Area	Available in
	Gas on at door closing (on/off) *When toggle button enabled the start signal is given for gas burner immediately after door closed, whether steam is given or not.*	3,4		off	C,V,S,I
	Use rack lift (on/off) *Enables rack lift if installed.*	3,4		off	C,V,S,I
	Rack lift max permitted time *Max time that the rack lift motor is allowed to run before an alarm occurs (and the current to the motor is cut)*	3,4		45s	C,V
	Use door locks *Option to lock door by instantaneously pressing the left arrow key, and unlock by pressing the right arrow key for 3s.*	3,4		off	S
	Fault buzzer (on/off) *Option of enabling/disabling audible alarm when faults occur*	4			C,V,S,I
Functions 2	**Remote control (on/off)** *Option to remotely control the panel from network*	3,4		off	C,V,S,I
	IP Address *Assigned IP address is entered in the "spinner" for remote control.*	3,4			
	White screensaver *Button to invert the colour of the screen saver, White/Black*	1,2,3,4		off	C,V,S,I
Service	**GUI** *Displays the version of software that is loaded.*	3,4			C,V,S,I
	IO *Displays the current drivers for IO card that the panel is loaded with.*	3,4			C,V,S,I
	Operation time *Displays the total operating time that the oven has been turned on for (cannot be reset)*	3,4			C,V,S,I
	Service on *Displays the time remaining until the service interval has been reached, if a time has been set in the service interval under functions.*	*3,4*		1000	C,V,S,I
	High temp *Logs time that the panel is exposed to temperatures of more than 70 degrees.*				
	Pin codes *Option of changing PIN codes from the pre-set values (applies to users, bakers, service)*	3,4			C,V,S,I
	Short temperature *Displays graph for cold-point temperature.*	3,4			C,V,S,I
	SD card *Provides various options for actions regarding SD card.*	3,4			C,V,S,I
	Factory reset *Factory reset of values (used for example for log table problems with SD card)*	*3,4*			C,V,S,I
	Reset Service *Resets the time counter for the value in the Service interval under Users*	3,4			C,V,S,I

Name	Level	Default	Area	Available in
Machine type				C,V,S,I
The panel must be configured for the right product C, V, S or I series. (this is just a base configuration, for additional functions, this must be done in functions etc. in retrospect.)	4			
For Diagnostics *OUT1: Option for forced setting of outputs* *Out2: Option for forced setting element outputs.* *IN1: Option for reading the status of the inputs* *FUSES: Ability to read status of the fuses.* *VALUES: Ability to read communication values.* *TEMP VALUES: Ability to read the different temperature values of the panel.* *PANEL STATUS: Current panel status (operating time/alarm status).*	4			C,V,S,I
Seal *Used for opening the shortcut menu in production options at initial start-up.*	4			C,V,S,I
Operating time *Time that the software has run in panel?*	4			C,V,S,I
Communication Lost *Number of auto restarts due to lost com*	4			C,V,S,I
Serial number *Field for entering the panel's serial number*	4			C,V,S,I

How to verify serial number and version of software for any given panel

1. From the starting page, select SERVICE MENU.



2. In the down right corner you will find version of the software

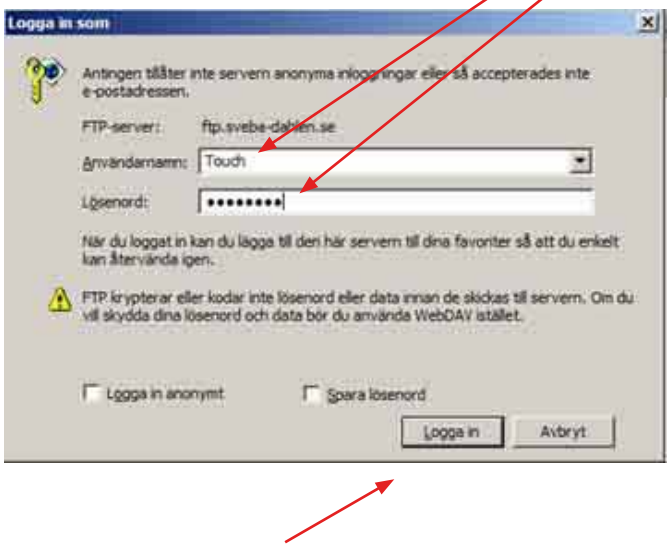
3. Panel serial no.

Upgrading the software

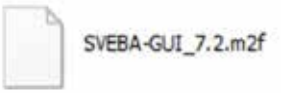
When upgrading the software to the latest version in the SD-touch panel, it can be easily retrieved from Sveba-Dahlén's ftp server.

1. Log on to the server at ftp://ftp.sveba-dahlen.se
2. Use below credentials

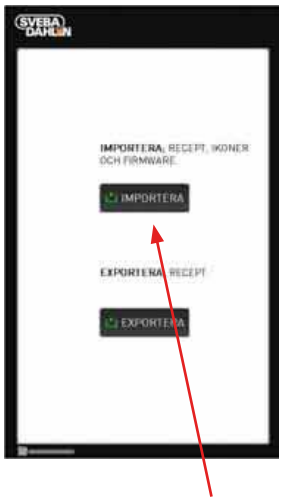
User name: Touch
Password: tOchsdab



3. Then select LOG ON.
4. Once logged on you will find the latest version of the software. (it may look like the example below)



5. Copy the file and put it on a USB drive using below steps 6, 7, 8.
6. "left click" the file
7. Then "right click" and choose copy.
8. Locate you USB drive and paste the file into it.
9. Then log off the server.
10. Then insert the USB drive into the USB port on the oven until the panel shows IMPORT/EXPORT.

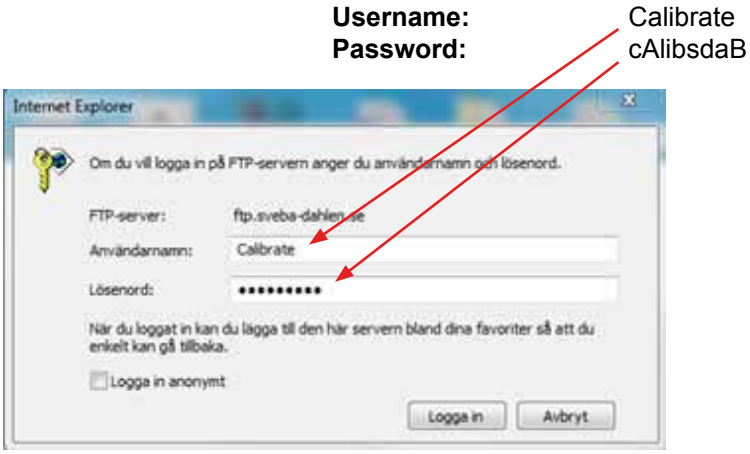


11. Select **IMPORT**.
12. The software copied from the ftp server will now be showed on the touch screen.
13. Highlight the software, select **INSTALL** and confirm with **YES**.
14. Wait for the panel to show a normal background again, then remove USB drive.
15. The software is now installed, all settings and parameters remain.
16. To verify the version of software look in the right hand lower corner when you select **SERVICE MENU** from the start up page.

Calibrating the SD-Touch

When calibrating the SD-touch panel, the latest calibration file can be downloaded from Sveba-Dahlen's ftp server.

1. Log on to the server via the following link. ftp://ftp.sveba-dahlen.se
2. Use the username and password below



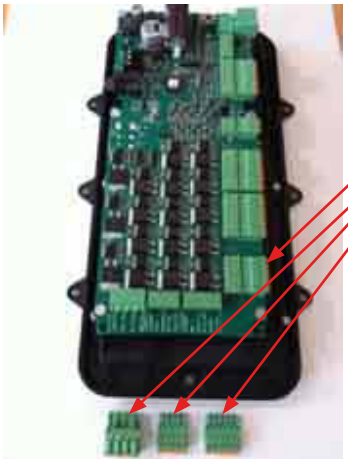
3. Press Logga in
4. Once logged on, you will find the latest version of the calibration file. (it might look like the below picture)

5. Copy the file and save it onto a USB-stick using steps 6, 7 and 8.
6. "left click" the file.
7. "right click" and choose copy
8. Locate your USB stick in the explorer and select paste
9. Log off the server
10. Place the USB-stick in the USB port on the oven.
11. Wait until an X appears in one of the corners of the touch surface.
12. Press the X with for example a pen. (It's important that you press on the X, otherwise the touch sur face will not be exactly on the desired buttons on the touch panel).
13. When the panel has registered the pressure, the X will move from corner to corner etc. and finally ap pear in the middle of the screen.
14. The panel also registers how much pressure you apply and that's the pressure that will be needed to push the buttons on the panel

Changing the SD-card

1. Disconnect all incoming power.

Release the screws and remove the protective cover.



Disconnect the bottom connectors.

2. Disconnect the SD-card from the inside display card.

Disconnect by pressing the SD-card until it releases.

3. Remove the card and replace it with another. SanDisk 2GB or higher is compatible.

4. Reassemble the contactors.
5. Reconnect the incoming power.
6. If the software is version R 8.0 or higher, the SD-card will re-format automatically. Parameters and recipes will be backed-up within a couple of hours.
7. Press SERVICE MENU in the startup page.
8. Log on using code 9999.
9. Go to service menu.
10. Select SD-CARD.
11. Press RESTORE FROM SD-card.
12. Confirm by pressing YES.
13. Then log out.

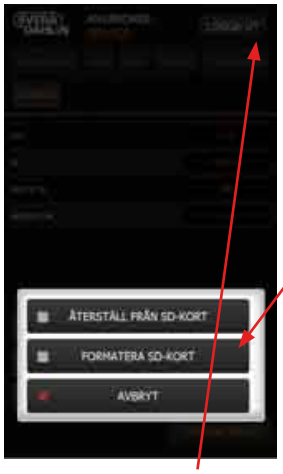
Software R 8.0 or higher

Press here to copy the parameters from the SD-card to the new panel

If the software is version R 7.3 or lower, it may occur that the panel indicates that no SD-card has been inserted even if it has. This is because the panel and the SD-card have different operating systems. If so, the SD-card must be formatted. This can be achieved in the following way:

1. Go to start page and select **SERVICE MENU**.
2. Enter service code (9999)
3. Select **SERVICE** and choose SD-card.
4. Press FORMAT SD-CARD and press **YES**.

Software 7.3 or lower



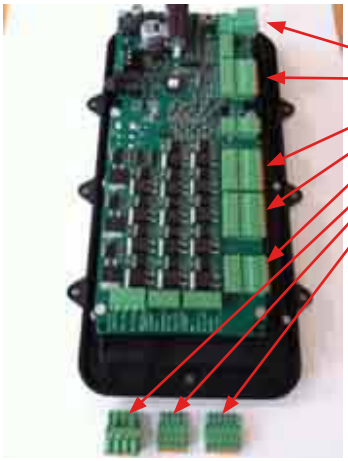
Press to format SD-card

5. Log off of SERVICE MENU.

Change SD-Touchpanel

1. Disconnect all incoming power.
2. Release the screws and remove the protective cover.

Release the screws and remove the protective cover.



Disconnect all connectors.

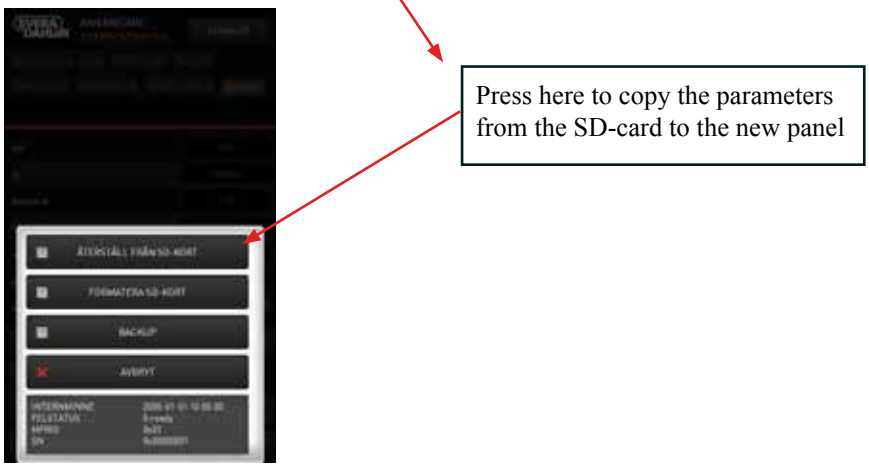
3. Loosen the 7 M4 nuts and remove the panel from the oven. .
4. Remove the panel border by loosening the 4 screws.
5. Disconnect the SD-card from the inside display card.

Disconnect by pressing the SD-card until it releases.

6. Move the card to the new panel.
7. Reassemble the border and insert the panel into the oven.

8. Reconnect the contactors into the new panel.
9. Reconnect the oven.
10. Check the software version, if possible update to the latest version.
11. Select Service menu and enter service code (9999).
12. Select SERVICE.
13. Select SD-CARD.
14. Select RESTORE FROM SD-CARD.

Software R 8.0 or higher

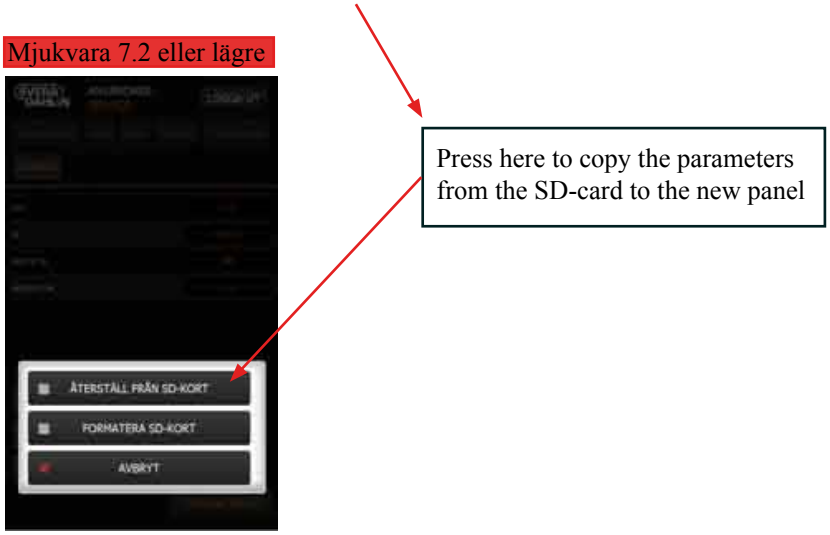


15. Confirm with YES.
16. All parameters will now be transferred to the new panel.

Software 7.3 or lower

1. Select Service menu and enter service code (9999).
2. Select SERVICE.
3. Select SD-CARD.
4. Select RESTORE FROM SD-CARD.

Mjukvara 7.2 eller lägre



NOTE: By transferring the SD-card from the old panel to the new, you also transfer the settings. Hence, no parameters need to be set and no recipes have to be created.