OP73 Operator Panel User Manual

v2.0.3_jcc

Service Manual

Custom built for Jim Coleman Company / Hanna by:

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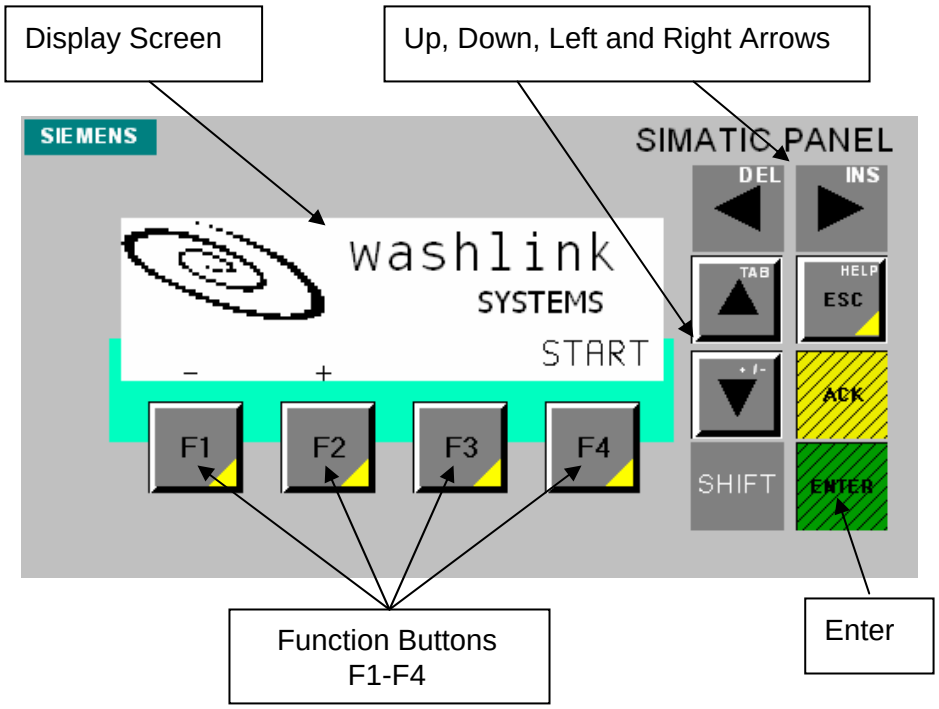
OP73 OPERATOR PANEL



The Washlink OP73 Operator Panel allows the user the ability to change the configuration of and view counts in the Washlink Systems Equipment Controller.

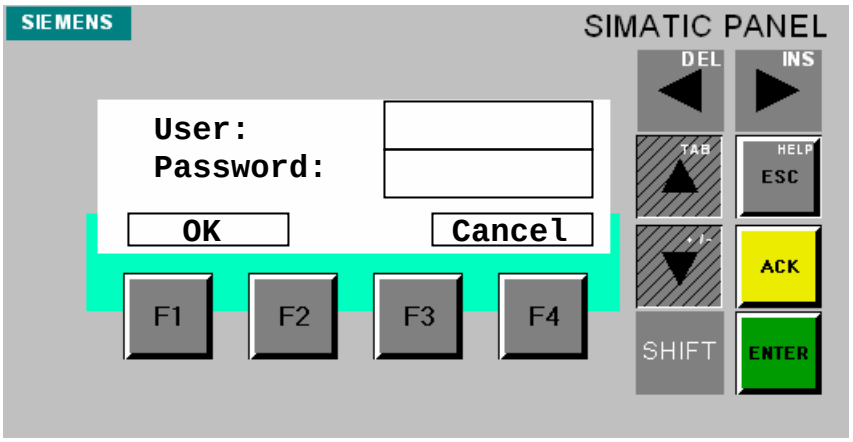
When powered up the display will show the above Start Screen.

To get to the configuration or counts, press F4 (Start)

PASSWORD SCREEN

The following screens do not need a user and password;
Package Counts
Option Counts
About

All other screens need a user and password



When the the above screen appears a valid user and password will need to be entered to proceed.

User = A Password = AAA

To enter the User and Password;
Scroll to the User or Password text field using the Up, Down, Left or Right arrow buttons.
Press Enter to highlight field
Use Up & Down arrows to change value
Use Left & Right arrows to move within a field
When done in a field press Enter and scroll to the next field
When finished scroll to OK and press Enter

PACKAGE AND OPTION COUNTS

From Washlink Systems Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to go to the Package and Option Counts (Fig 2)
When at the desired screen Press F4 (GOTO) to get to that screen.

Note: F3 (EXIT) to get back to Washlink Systems Start Screen

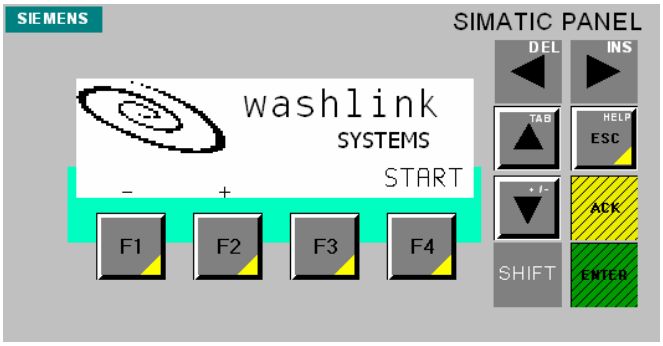


Fig 1

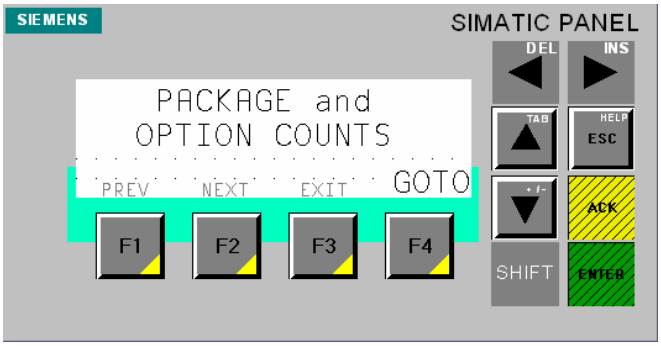


Fig 2

When at the Package XX (Fig 3) or Option XX (Fig 4) Lifetime Counts Screen
Scroll using F1 (PREV) and F2 (NEXT) to get to the desired count

Note: Press the F3 (EXIT) to get back to the Package and Option Count Main Screen

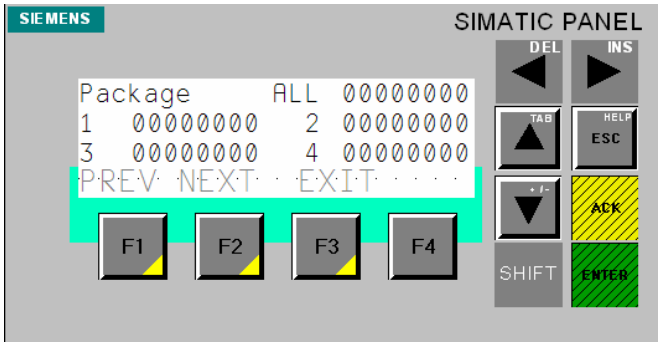


Fig 3

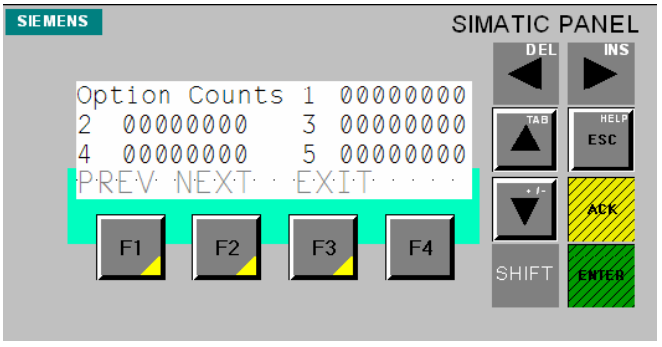


Fig 4

FUNCTION SETUP

From Washlink Systems Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to get to System Config (Fig 2) Screen
When at the System Config screen Press F4 (GOTO) to go to the Function Config (Fig 3)
When at the Conveyor Config screen Press F4 (GOTO) to go to the different settings below, scroll using F1 (PREV) and F2 (NEXT) to get to the different setting screens.
Note: F3 (EXIT) to get back to Washlink Systems Start Screen

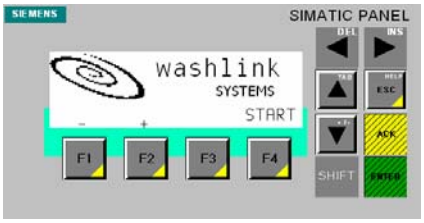


Fig 1

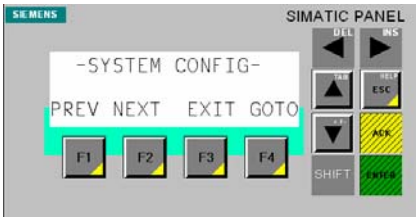


Fig 2

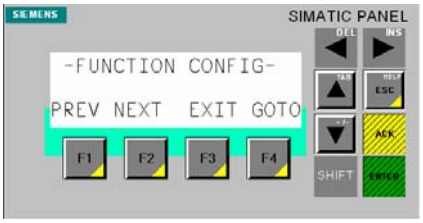


Fig 3

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the Function Config Screen

<u>FUNCTION # CONFIG (Fig 4)</u>
This is a jump screen, you can scroll to a lower (F1) or higher (F2) function then press GOTO (F4) and jump to that functions values.

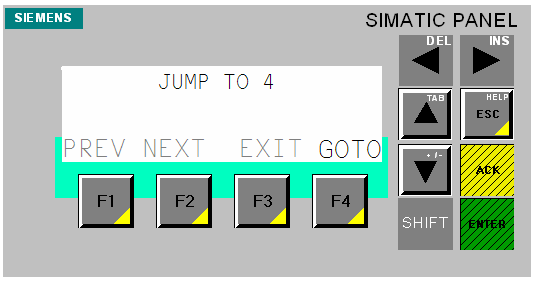


Fig 4

<u>LOCATION (Fig 5)</u>
This is the start location of the piece of equipment past the enter switch or tire switch if in mode 5 or 6.
Value is in pulses

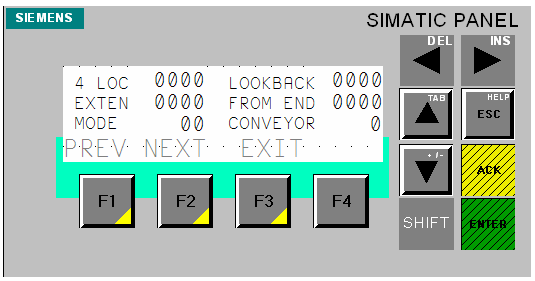


Fig 5

<u>EXTENSION (Fig 6)</u>
The extension value modifies the amount of time a function stays on. See modes below.
1-It will be added to the length of the vehicle.
2-The Function will only run for the value set from the front of the vehicle.
3-The Function will only run for the value set from the rear of the vehicle.
4-It will be added to the length of the vehicle.
5-The function will only run for the value set (value x ¼ second) for tire switch control
6-Same as 5 (see modes on next page)

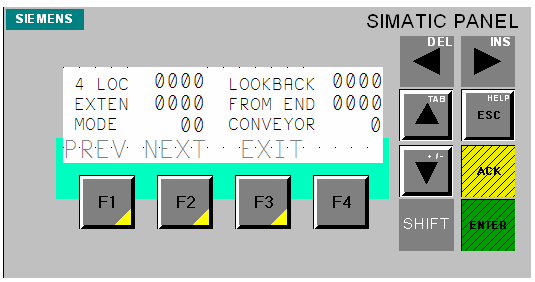


Fig 6

FUNCTION SETUP

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the Function Config Screen

MODE (Fig 1)
Mode 1-value in Extension is added or subtracted from full the length of vehicle. Function turns on at front of vehicle
Mode 2-function is only on for the value in Extension. This function will turn on at the front of vehicle.
Mode 3-function operates as a Mode 1, with the exception of its turn on location. This function will turn on at the resulting location of adding the value in From End to the end of the vehicle.
Mode 4-functions operates as a Mode 1, with the exception of its turn off location. If the next vehicle is within the value in Look back, the function will stay on.
Mode 5 & 6 Activation from Tire Switch
Mode 5-function is only on for the specified value in the Extension screen (each number = ¼ second 14=3-1/2 sec)
Mode 6-same operation as mode 5 except the tire switch does not have to be within same location as the enter switch.

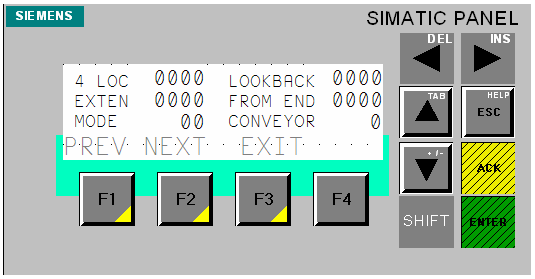


Fig 1

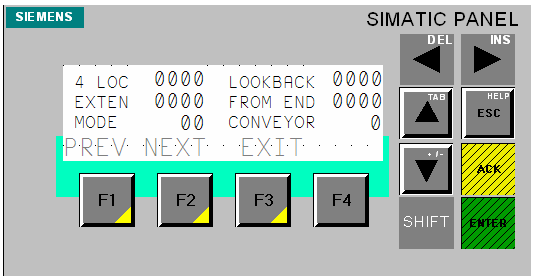


Fig 2

FROM END (Fig 2)
This gives a way to have a function turn on from the rear of the vehicle instead of the front. (rear bumper blast, open bed truck, etc)
This value is referenced if function is a Mode 3.

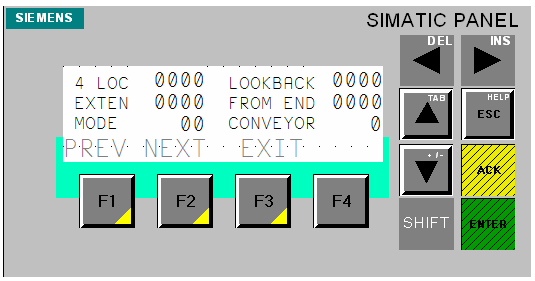


Fig 3

LOOK BACK (Fig 3)
This gives a way to keep a function on it another
vehicle within the the set value. This value is referenced if the function is a Mode 4.

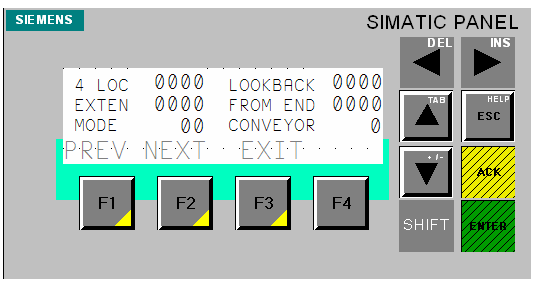


Fig 4

STAY ON (Fig 4)
This gives a way of having a function staying on (if already on) during a stop of the conveyor
Value 0 function turns off with conveyor
Value 1 function stays on when conveyor off

CONVEYOR SETUP

From the Washlink Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to get to System Config (Fig 2) Screen
When at the System Config screen Press F4 (GOTO) to go to the Conveyor Config Screen (Fig 3)
When at the Conveyor Config screen Press F4 (GOTO) to go to the different settings as shown below, scroll the various setting options by using F1 (PREV) and F2 (NEXT).

Note: F3 (EXIT) to get back to Washlink Start Screen

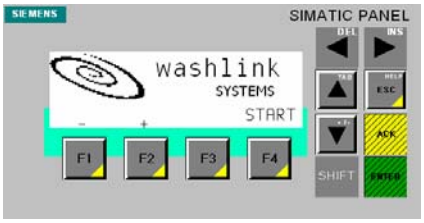


Fig 1

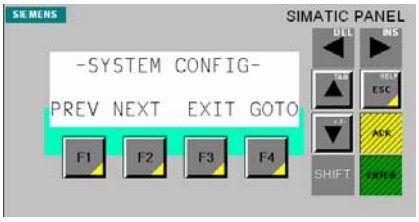


Fig 2

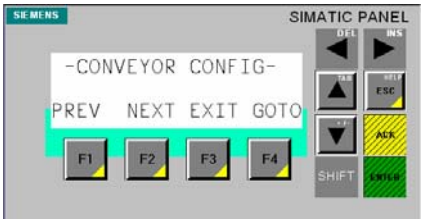


Fig 3

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.

Note: EXIT (F3) will bring you back to the Conveyor Config Screen11

HORN ON (Fig 4)

This sets the amount of time the warning horn (function 1) will turn on for each time the conveyor is started.
Setting is in1/10th (.1) second resolution.
(for example: 25 = 2-1/2 seconds on time)

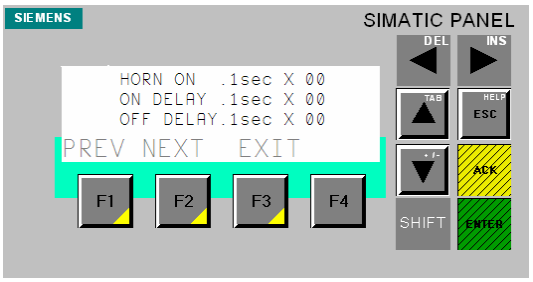


Fig 4

ON DELAY (Fig 5)

This gives a way of applying an On Delay to the Enter (input 22) this has the effect of delay when the Equipment Controller starts receiving the Enter signal.
Value is in 1/10th (0.1) second resolution.
(for example: 5=1/2 second between pulses)

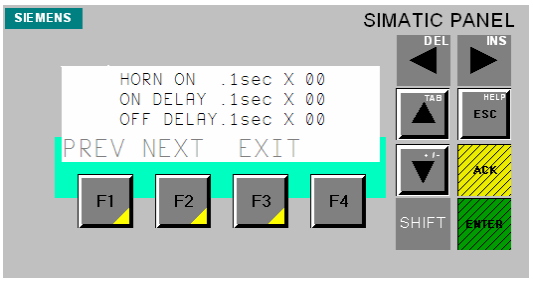


Fig 5

OFF DELAY (Fig 6)

This gives a way of applying an Off Delay to the Enter (input 22); this has the effect of extending when the Equipment Controller stops receiving the Enter signal.
Value is in 1/10th (0.1) second resolution.
(for example: 5=1/2 second between pulses)

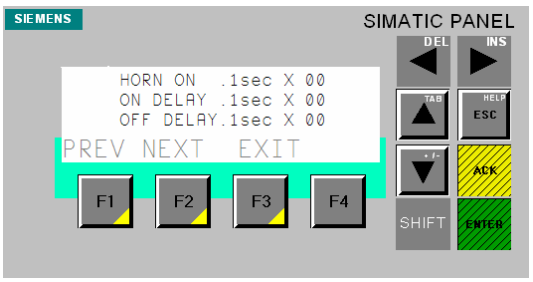


Fig 6

CONVEYOR SETUP

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the Conveyor Config Screen

USE SIM PULSE (Fig 1)
This gives a way of still operating the car wash even if the pulse switch is inoperable.
Value 0 uses car wash pulse switch
Value 1 uses internal Sim Pulse

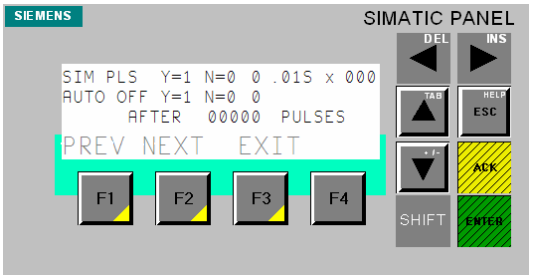


Fig 1

SIM PULSE TIME (Fig 2)
This gives a way of adjusting the time between simulated pulses when in Sim Pulse mode.
To turn on equipment earlier use a lower value.
To turn on equipment later use a higher value.
Value is in 1/100th second resolution.
Value is in 1/100th (0.01) second resolution.
(for example: 25=1/4 second between pulses)

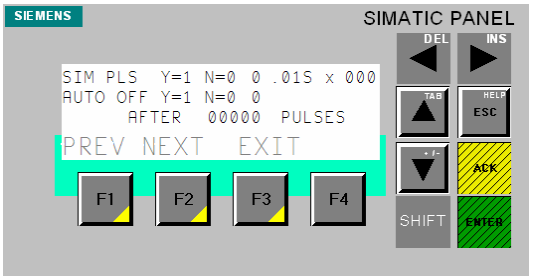


Fig 2

AUTO OFF(Fig 3)
This gives a way of having the conveyor & equipment to turn off when there are no cars being washed.
To disable Auto Off use value 0
To enable Auto Off use value 1

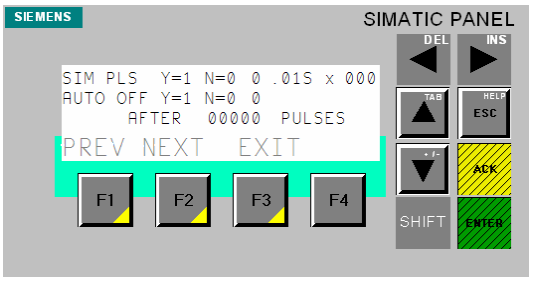


Fig 3

AUTO OFF AFTER (Fig 4)
This gives a way to adjust when the Auto Off turns off the equipment.
This value is in pulses.
To turn on equipment earlier use a lower value.
To turn on equipment later use a higher value.

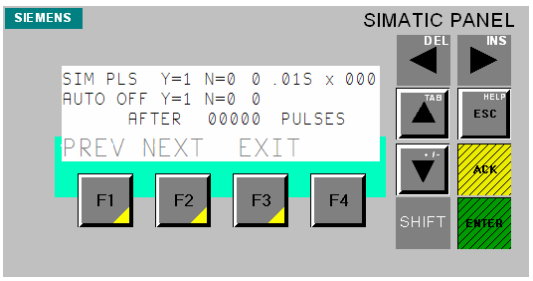


Fig 4

CONVEYOR SETUP

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the Conveyor Config Screen

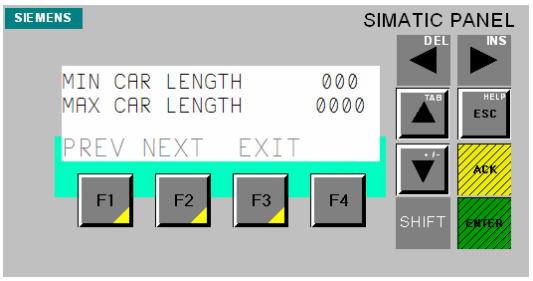


Fig 1

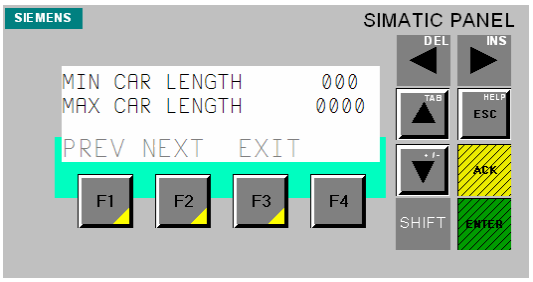


Fig 2

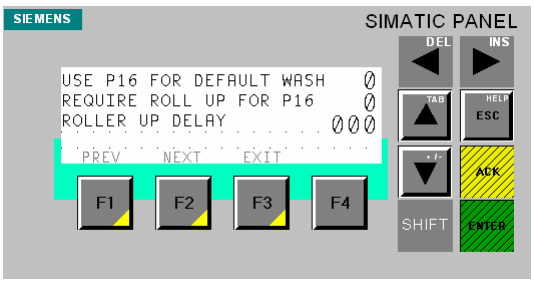


Fig 3

MIN CAR LENGTH (Fig 1)
This gives a way of enforcing a minimum vehicle length. Vehicles must be of this length or larger before the package entered is applied and counted.
This value is in terms of pulses.

MAX CAR LENGTH (Fig 2)
This gives a way to enforcing a maximum vehicle length. If a vehicle exceeds this value, it will be counted and processed as normal. However, no new package will be applied until another package is input.
This value is in terms of pulses.

D0 PKG 16 IF NO PKG ENTERED (Fig 3)
This gives a way of washing a car if no package has been entered and a vehicle goes through the enter (input 22).
If set to a 0 no package will be processed (vehicle will not be washed) and no count will be added.
If set to 1 package 16 will be processed

REQUIRE ROLLER UP TO WORK (Fig 3)
If set to 0 this will give a wash Pkg 16 when ever the enter input (i22) is activated and no Package was entered (input 1-16)
If set to 1 this requires the roller input (i35) to be activated for Pkg 16 to be given when no package (i1-i16) has been entered.
NOTE: If set to 0 and the enter goes above the max car length, it will reset and wash another Pkg 16 until a valid package has been entered and the enter input (i22) goes off

ROLLER UP DELAY (Fig 3)
This will add a delay from when package sent input or roller raiser input is pressed before the fork sequence starts in 1/10 of seconds

ROLLER RAISER CONFIGURATION

From Washlink Systems Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to go to the System Config (Fig 2) Screen
When at the System Config screen Press F4 (GOTO)
Scroll using F1 (PREV) and F2 (NEXT) to go to the Roller Raiser Config (Fig 3) Screen
When at the Roller Raiser Config screen Press F4 (GOTO)
Note: F3 (EXIT) to get back to Washlink Systems Start Screen

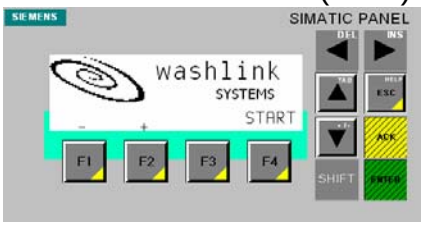


Fig 1

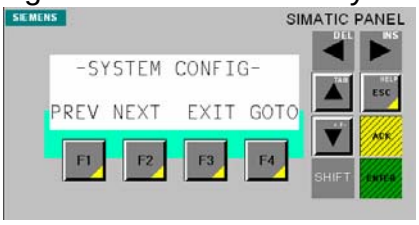


Fig 2

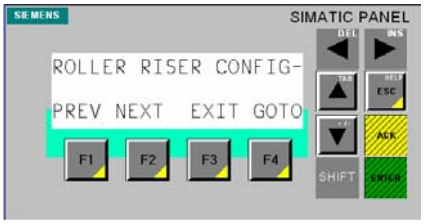


Fig 3

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the Roller Raiser Config Screen

<u>NUMBER OF ROLLERS (Fig 4)</u>
This is the total number of rollers to be sent
For each vehicle.
Value must be a minimum of 1

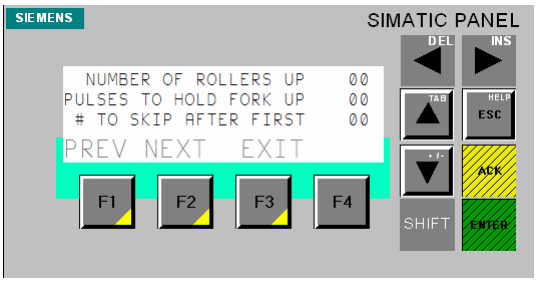


Fig 4

<u>NUMBER OF PULSES (Fig 5)</u>
This is the number of pulses the roller function (function 3) will be activated for each roller to be sent.
Value is in terms of pulses.

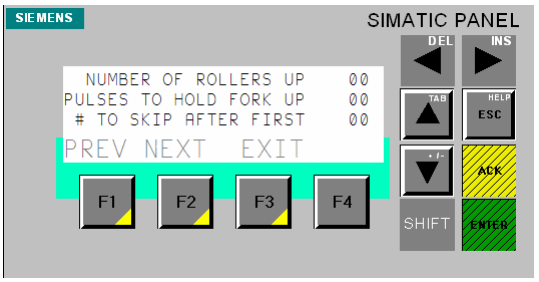


Fig 5

<u># OF ROLLERS TO SKIP (Fig 6)</u>
This gives the ability to skip rollers coming up in the sequence.
This is typical with front wheel pull conveyors.
Note: Value must be 1 or higher. In order to skip 2 rollers use a value of 3

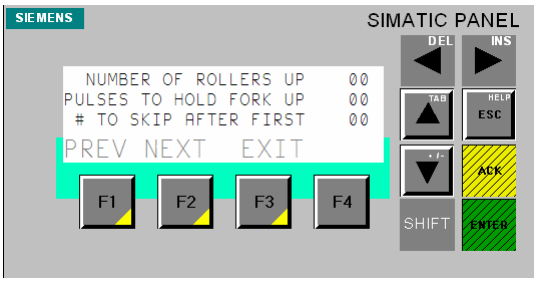


Fig 6

ROLLER RAISER CONFIGURATION

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the Roller Raiser Screen

USE DETECT SWITCH (Fig 1)

This gives the ability to detect the position of the rollers on the conveyor. This gives the ability to accurately bring up the desired number of rollers and help prevent roller jamming.
Value of 0 disables this feature.
Value of 1 enables this feature (a hardware switch is necessary).

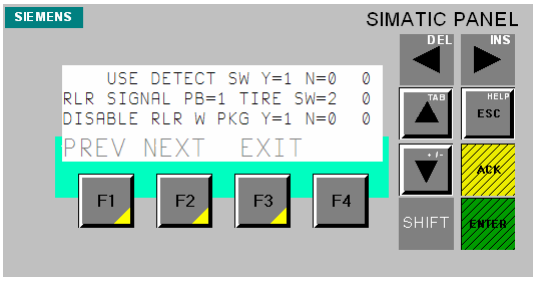


Fig 1

ROLLER UP SIGNAL (Fig 2)

This gives the ability to specify how many roller inputs must be received to do a roller cycle.
Typical values;
For push button, specify a value of 1
For tire switch (auto roller), specify a value of 2
Note: If value is higher then 1, when a push button is also used, it will have to be pressed the same number of times to do a roller cycle.

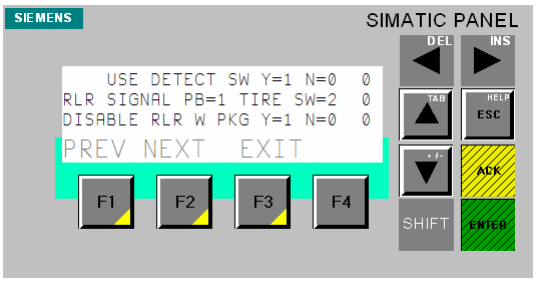


Fig 2

DISABLE AUTO ROLLER (Fig 3)

This gives a way to disable a roller cycle from happening when a package button is pressed.
If value is 0 a roller cycle will happen when a package is sent.
If value is 1 a roller cycle will not happen when a package is sent.

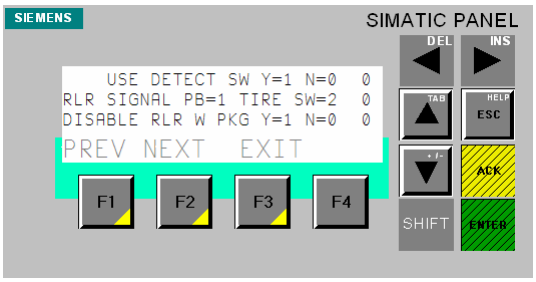


Fig 3

COLLISION AVOIDANCE

From Washlink Systems Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to get to System Config (Fig 2) Screen
When at the System Config screen Press F4 (GOTO) to go to the Conveyor Config (Fig 3)
When at the Conveyor Config screen Press F4 (GOTO) to go to the different settings below,
scroll using F1 (PREV) and F2 (NEXT) to get to the different setting screens.
Note: F3 (EXIT) to get back to Washlink Systems Start Screen

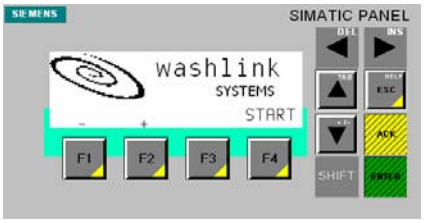


Fig 1

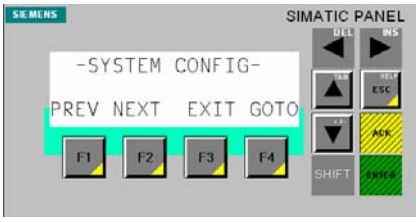


Fig 2

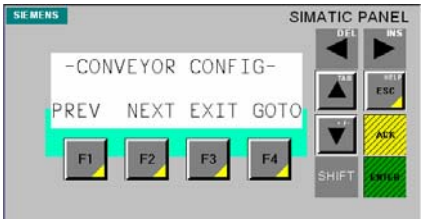


Fig 3

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the Collision Avoidance Screen

<u>USE COLLISION (Fig 4)</u>
This gives a way to enable or disable the collision avoidance controls.
Value of 0 collision avoidance disabled
Value of 1 collision avoidance enabled

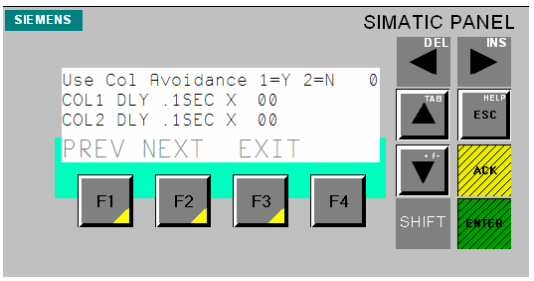


Fig 4

<u>COL1 DLY (Fig 5)</u>
This gives a way to give collision avoidance input 1 (i37) a delay before it will be processed.
Value is in 1/10th second resolution
(15=1-1/2 seconds)

<u>COL2 DLY (Fig 5)</u>
This gives a way to give collision avoidance input 2 (i38) a delay before it will be processed.
Value is in 1/10th second resolution
(15=1-1/2 seconds)

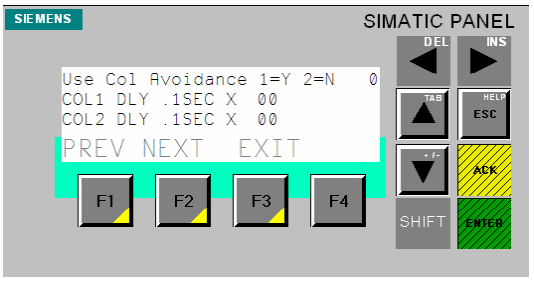


Fig 5

PACKAGE MAPPING

From Washlink Systems Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to go to the System Config (Fig 2) Screen
When at the System Config screen Press F4 (GOTO)
Scroll using F1 (PREV) and F2 (NEXT) to go to the Package and Option Mapping (Fig 3)
When at the Package and Option Mapping screen Press F4 (GOTO)

Note: F3 (EXIT) to get back to Washlink Systems Start Screen

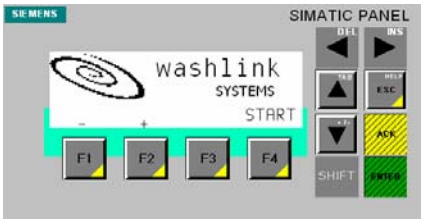


Fig 1

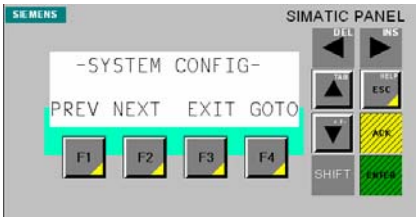


Fig 2

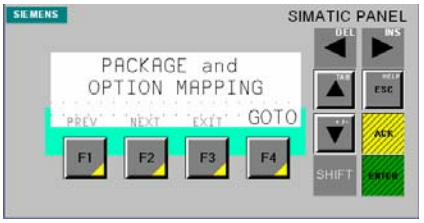


Fig 3

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.

Note: EXIT (F3) will bring you back to the Package Mapping Screen

PACKAGE NUMBER 1-16 (Fig 4)
This sets the functions (67-4) to be applied for each Package.
Value of 0 function will not be applied.
Value of 1 function will be applied.

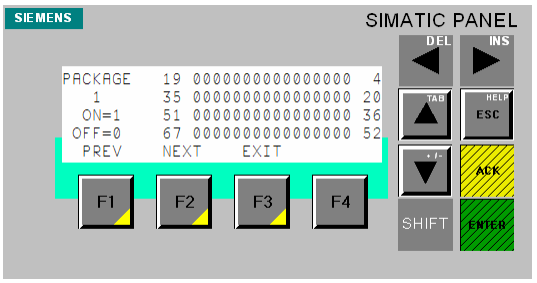


Fig 4

Note: Only one package will be applied to each vehicle. If package 1 is pressed, and then package 2 is pressed prior to the vehicle reaching the enter switch, the vehicle will get a package 2 and only a package 2 will be counted. Options must be entered after the package has been entered in order to be applied to that that vehicle with the package.

OPTION NUMBER 1-10 (Fig 5)
This sets the functions (67-4) to be applied for each Option.
Value of 0 function will not be applied.
Value of 1 function will be applied.

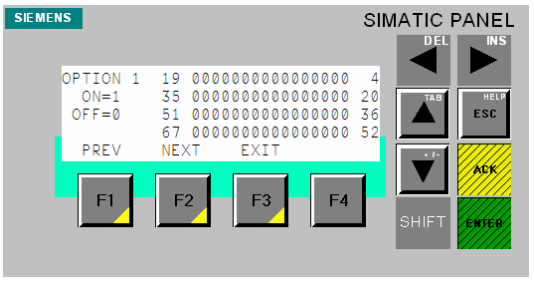


Fig 5

Note: Options will not work on their own, they must be entered after the package to be applied to a vehicle. The order and quantity of options applied to a package has no bearing on their application.

WETDOWN CONFIGURATION

From Washlink Systems Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to go to the System Config (Fig 2) Screen
When at the System Config screen Press F4 (GOTO)
Scroll using F1 (PREV) and F2 (NEXT) to go to Wet Down Config (Fig 3) Screen
When at the Wet Down Config screen Press F4 (GOTO)
Note: F3 (EXIT) to get back to Washlink Systems Start Screen

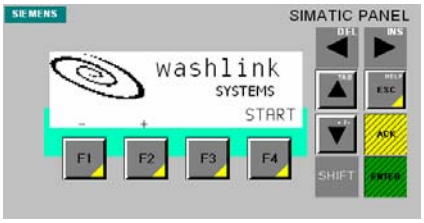


Fig 1

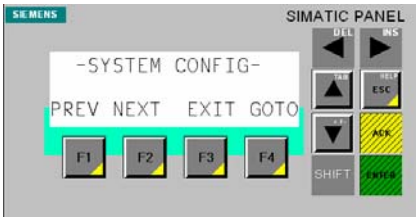


Fig 2

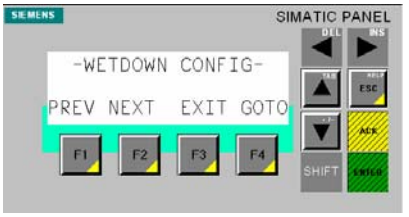


Fig 3

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the Conveyor Config Screen

DURATION IN MINUTES (Fig 4)
This is the duration a wet down will run for.
Value is in terms of minutes

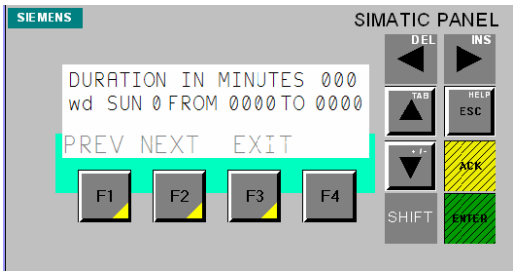


Fig 4

WD DAY (Fig 5)
This gives the ability to limit Wet Down use.
Day: Value of 0 wet down disabled for that day
Value of 1 wet down enabled for that day
Time: Specifies what hours on that day wet down is permitted to operate
Value is in terms of minutes, ranging from 0-1440
(for example: 6:00AM-6:50AM = 360 to 410)

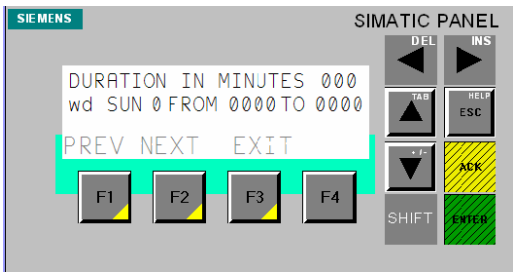


Fig 5

WET DOWN ON (Fig 6)
This specifies the functions that will turn on During a wet down
Value of 0 off. Value of 1 on.

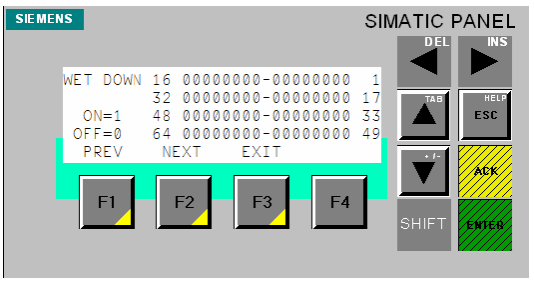


Fig 6

STACKER CONFIGURATION

From Washlink Systems Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to go to the System Config (Fig 2) Screen
When at the System Config screen Press F4 (GOTO)
Scroll using F1 (PREV) and F2 (NEXT) to go to the Roller Raiser Config (Fig 3) Screen
When at the Stacker Cofig screen Press F4 (GOTO)

Note: F3 (EXIT) to get back to Washlink Systems Start Screen

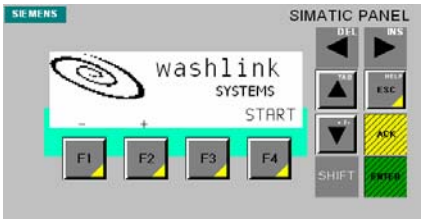


Fig 1

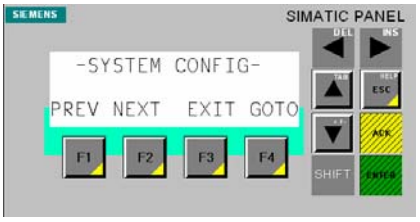


Fig 2

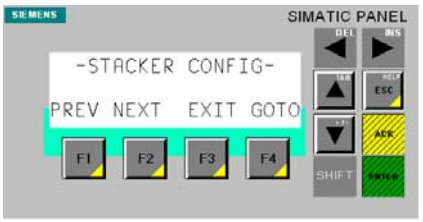


Fig 3

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the Stacker Config Screen

USE STACKER (Fig 4)
This sets the the internal stacker on or off
Value of 0 specifies no use of the internal stacker
Value of 1 specifies use of the internal stacker

STACKER POS BASED (Fig 4)
This tells the stacker to work from a Saleslink POS or use the discreet inputs (i1-i16)
Value of 0 no, use discreet inputs (i1-i16)
Value of 1 yes, use SalesLink POS

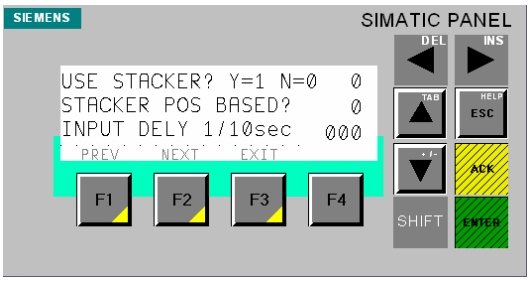


Fig 4

INPUT DELY 1/10sec (Fig 4)
This is the amount of time between inputs until stacker Information goes to the next car in 1/10 of seconds

MAX NUMBER OF CARS (Fig 5)
This sets the maximum numbers of cars stored in the internal stacker.
Value from 0-48

IF NO CAR IN QUEUE (Fig 5)
This gives a way to wash a vehicle without it being in the queue.
Value from 0-16
0=do not wash

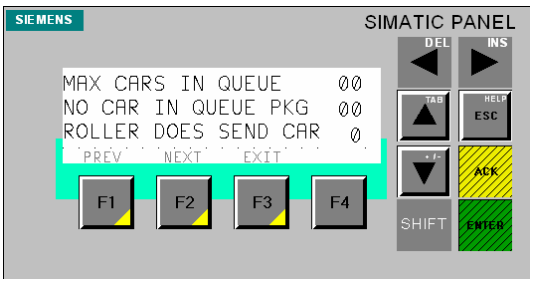


Fig 5

ROLLER DOES SEND CAR (Fig 5)
This gives a way to have a roller input, act as send car input.
0=No 1=Yes

SYSTEM ENABLE

From Washlink Systems Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to go to the System Config (Fig 2) Screen
When at the System Config screen Press F4 (GOTO)
Scroll using F1 (PREV) and F2 (NEXT) to go to the System Enable (Fig 3) Screen
When at the System Enable screen Press F4 (GOTO)
Note: F3 (EXIT) to get back to Washlink Systems Start Screen

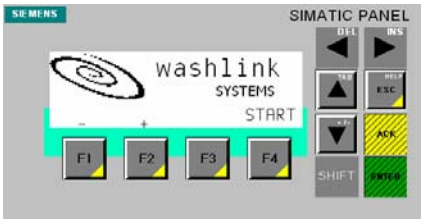


Fig 1

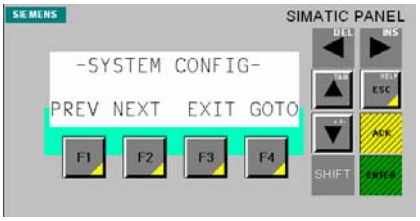


Fig 2

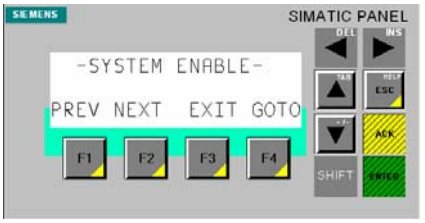


Fig 3

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the System Enable Screen

SYS ENABLE (Fig 4)
This gives the ability to limit the operating hours of the Equipment Controller.
Day: Value of 0 specifies that the Equipment Controller is disabled for that day
Value of 1 specifies that the Equipment Controller is enabled for that day

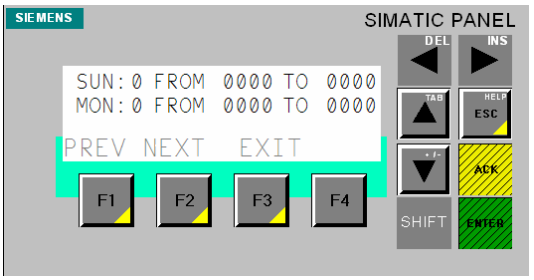


Fig 4

Time: Specifies what hours on that day wet down is permitted to operate.
Value is in terms of minutes, ranging from 0-1440
(for example: 6:00AM-6:50AM = 360 to 410)

PLC CLOCK ADJUSTMENT

From Washlink Systems Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to go to the System Config (Fig 2) Screen
When at the System Config screen Press F4 (GOTO)
Scroll using F1 (PREV) and F2 (NEXT) to go to the System Enable (Fig 3) Screen
When at the System Enable screen Press F4 (GOTO)
Note: F3 (EXIT) to get back to Washlink Systems Start Screen

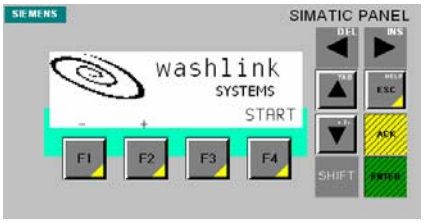


Fig 1

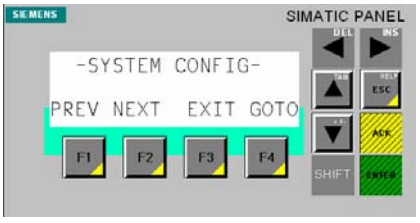


Fig 2

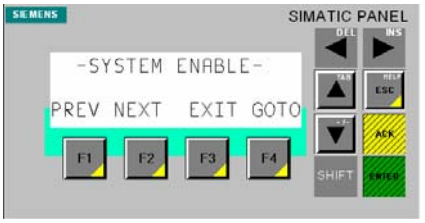


Fig 3

Note: To change a value scroll using the Up, Down, Left or Right arrow buttons to move to the desired value needing to be changed and then press Enter. Use the Up, Down, Left or Right arrow buttons to change the value. Press Enter to accept change.
Note: EXIT (F3) will bring you back to the System Enable Screen

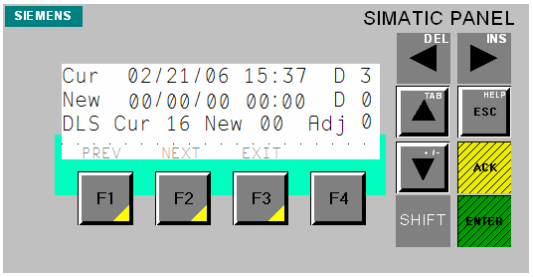


Fig 4

<u>PLC Clock (Fig 4)</u>
This gives the ability to adjust the PCL time of day clock and daylight savings.

<u>To make a change;</u>
Change 0 to 1 in Adj field (puts into change mode)
Scroll to field to adjust and press ENTER
Arrow up/down/left/right to desired value and press ENTER
Repeat as necessary on other fields
After all fields have the value to be set,
Change 1 to 2 in Adj field to accept changes

Cur=Current Date (mm/dd/yy), Time (hh:mm) 24hr format
D=Day of the week
1=Sunday, 2=Monday, 3=Tuesday, 4=Wednesday,
5=Thursday, 6=Friday, 7=Saturday
New=Adjusted Settings to be applied
Adj=Clock Mode 0=normal, 1=change, 2=accept changes

DLS=Day Light Savings
0=Not Used
1=EU + 0 hrs
2=EU + 1 hrs
3=EU + 2 hrs
8=EU – 1 hrs
16=US
17=Australia
18=Australia (Tasmania)
19=New Zealand

CRITICAL INPUT STATUS

From Washlink Systems Start Screen (Fig1) press F4 (START)
Scroll using F1 (PREV) and F2 (NEXT) to go to the Critical Input Status (Fig 2)
Note: F3 (EXIT) to get back to Washlink Systems Start Screen

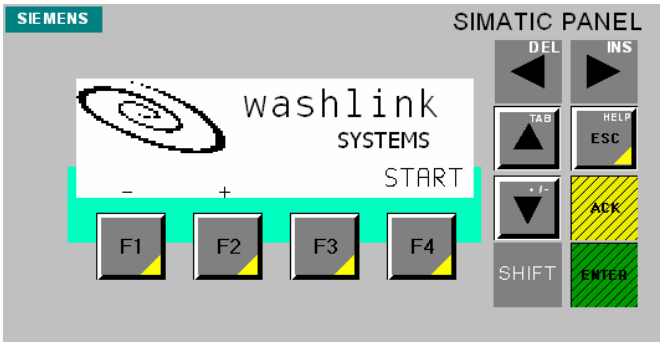


Fig 1

Stop Push Buttons
1=OK 2=Stopped
(all stop push buttons need to be normally Closed contacts)
If stops are a 0 system will not operate.

Pulse Switch
This number will be raising when the conveyor is running in auto mode, count resets at 99 to 0 or when conveyor stops5

Hydraulic Low Level
1=OK 2=Stopped
(all hydraulic low level switches, need to be normally closed contacts)
If low levels are a 0 system will not operate.

Enter Switch
0=Off
1=On

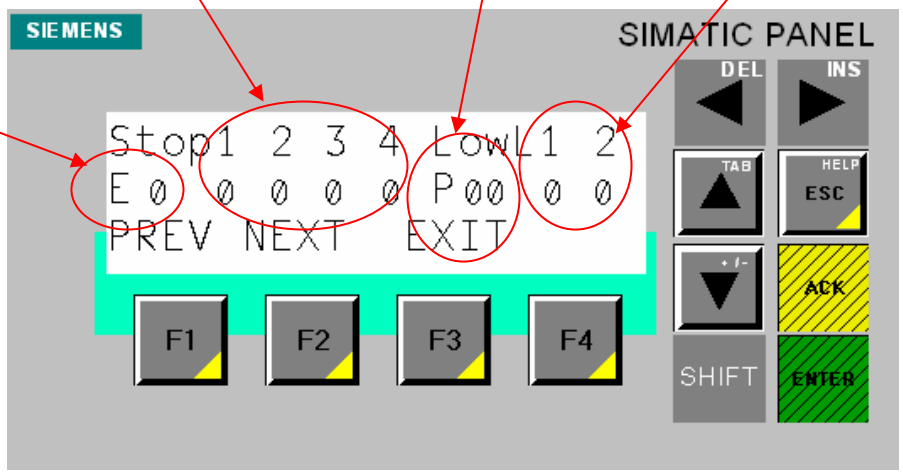


Fig 2

Settings

	Name	Location	Extension	Mode	Look back	From End	Conv.
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
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32							

Settings

	Name	Location	Extension	Mode	Look back	From End	Conv.
33							
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NOTES