

**OPERATIONS AND
PROCEDURES FOR
CS-CALIPROMPTER
AND ACCESSORIES**



Model CS-Caliprompter

- Visual screen display allows easy step-by-step operation
- On-site programming and calibration
- Rechargeable battery pack
- 110VAC/12VDC battery recharger
- In truck communication via Infra-Red
- P.C. Communication via RS-232 connection

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Printed in Canada for: Basic Technologies Corporation.
 P.O. Box 1006
 490 West Side Rd.
 Welland, Ontario
 Canada L3B 5R6

Phone: (905) 735-0510

Fax: (905) 735-5646

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C O N T E N T S**

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**F U N C T I O N A L
P U R P O S E**

The Caliprompter's basic function is to act as an information transfer or communication device. This information may take various forms, logged data or calibration data, and directions as outlined in diagram 1.

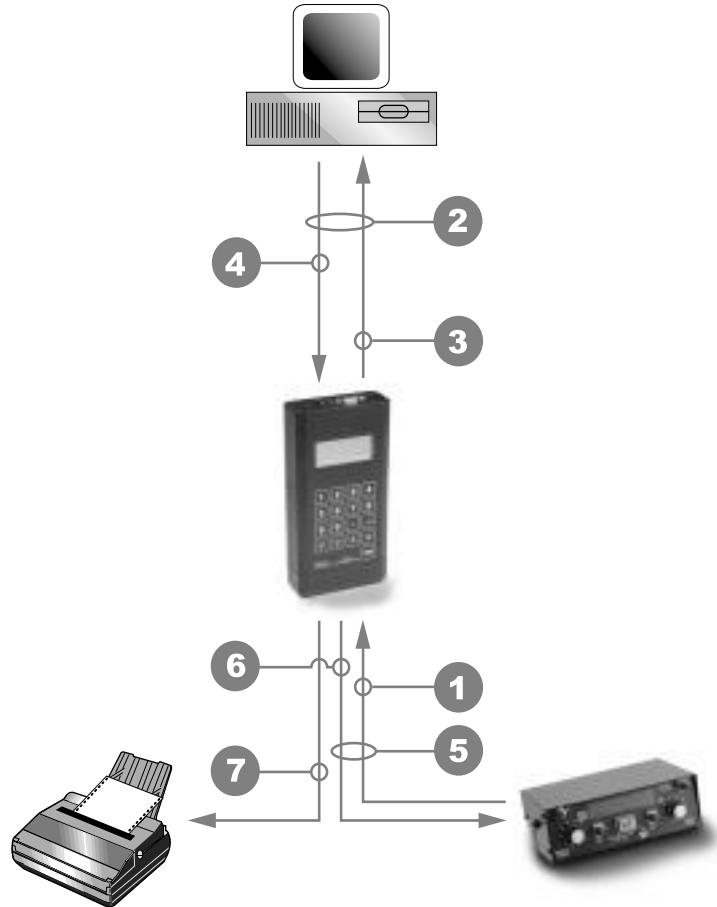
The Caliprompter can collect both logged data as well as calibration values, therefore, the Caliprompter can facilitate communication in both directions. Information from the in-truck CS-230 to the Caliprompter to a computer as well as information from computer to Caliprompter back to the CS-230 unit.

Communication between the Caliprompter and the truck mounted CS-230 is achieved via infra-red light waves with no physical connection required. Merely point the Caliprompter at the CS-230 and it operates as a T.V. remote control would.

Communication between the Caliprompter and a personal computer is achieved via an RS 232 interface cable (supplied). One cable end plugs into the Caliprompter while the other end may be installed into either COM1 or COM2 of your computer or directly into a serial ported printer as required.

**CS - 230
CALIPROMPTER
FLOW PATHS**

DIAGRAM # 1



Definition of Information Flow Paths

1. Uploading refers to a communication path direction going from the CS-230 to the Caliprompter and from the Caliprompter to a personal computer.
2. Downloading refers to a communication path direction going from a personal computer to the Caliprompter and from the Caliprompter to the CS-230.

- 1, Upload direction for:
 1. Logged Data
 2. Parameters
2. Use the caliprompter main menu "P.C. Connection", and the computer software menu to select choice and direction of information transfer between the Caliprompter and Computer.
3. Upload direction for:
 1. Logged Data
 2. Parameter Sets
4. Download direction for:
 1. Parameter Sets
5. For information transfer between Caliprompter and the CS-230 select appropriate menu required from Caliprompter.
6. Download direction for:
 1. Calibration
 2. Parameter changes
 3. Manual Control
7. Use Caliprompter to print logged info direct to a serial printer.

P O W E R S U P P L Y

On the Caliprompter's backside is a removable battery access cover. Under this cover is a 7.2 Volt rechargeable battery pack.

There are three (3) signs of battery weakening:

1. The communication distance between the Caliprompter and the CS-230 decreases from approximately 9ft.(3meters) which is full power distance.
2. The digital readout of the Caliprompter weakens.
3. The Caliprompter will shut off within seconds of being turned on.

Memory in the Caliprompter can be maintained long after the battery has become too weak to keep the Caliprompter on. Additionally, the Caliprompter can retain it's memory with no battery at all for approximately 5 minutes. This allows ample time for the removal and replacement of the battery pack, without concern for loss of stored information.

**R E C H A R G I N G
B A T T E R Y****C H A R G E R
C O M P O N E N T S**

1. Intelligent Battery Charger.
2. AC Wall Transformer, with female adapter lug.
3. 12 Volt Power Point DC Adaptor, with female adapter lug.
4. Adapter Cable from Charger to CS-Caliprompter, with female adapter lug.

NOTE: You must always use 3 items when charging the battery pack:

1. Caliprompter.
2. Charging Unit.
3. 110V or 12V Adaptor.

NOTE: Both the Intelligent Battery Charger, and the CS-Caliprompter are manufactured with the same 2.1 mm DC input jack (as this is a typical, readily-available type of connector). However, caution must be used in connecting the components together.

DO NOT CONNECT THE AC TRANSFORMER/DC CIGARETTE LIGHTER ADAPTER DIRECTLY TO THE CS-CALIPROMPTER.

RECHARGING
BATTERY
CONTINUED

C H A R G I N G

1. Connect Caliprompter to charging unit with grey cable. You will find a connection point on the side of the Caliprompter.
2. Connect either the 110V or the 12V adapter to the charging unit, depending on whether you are near a 110V or 12V power source.
3. Plug the 110V adapter into a wall socket, or the 12V adapter into the power point in the vehicle.

NOTE: The charger's auto sensor will check the battery voltage automatically. The red LED will flash three times to indicate 7.2 Volts.

NOTE: The battery pack should be discharged before recharging.

4. Press the discharge button on the charging unit as labelled on the charger. The green LED will light showing that discharge is in progress. After discharge is complete, the green LED will automatically turn off to inform you that discharge is complete.
5. Once discharge is complete, the charging unit will automatically begin to charge the battery pack.

NOTE: You may want to place the magnetic temperature sensor directly on the battery pack to monitor the battery's temperature. However, due to the battery being isolated, it may be of some inconvenience and is typically not necessary.

6. The progress of charging will be indicated in four steps. The LED indicators will show the following:

- a) ●○○ 1/4 charged.
- b) ●●○ 1/2 charged.
- c) ●●● 3/4 charged
- d) ○○● full (the audible beeper will sound three times when the battery pack is fully charged).

7. Disconnect all charging components from the Caliprompter. It is now ready to use.

KEYPAD FUNCTIONS



1 . O N

Pressing this key activates the Caliprompter.

NOTE: Automatic Power OFF. Your Caliprompter conserves battery power by automatically turning off after 60 seconds providing no keys were pressed or functions activated.



2 . E S C A P E K E Y

This key will bring you back to the main menu at any time. In some cases it may be necessary to activate this key twice.



3 . E N T E R K E Y

This key is used to enter numeric values or to enter or start a procedure.

Eg: Uploading, downloading, calibrating, etc..



4 . L E F T C U R S O R K E Y

This key moves the cursor to the left of the menu.



5 . U P C U R S O R K E Y

This key moves the cursor up the menu.



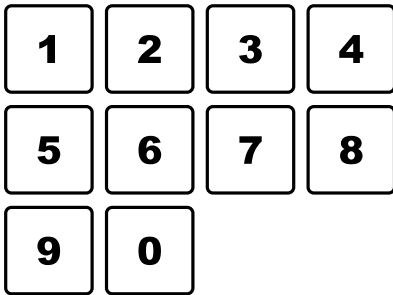
6 . D O W N C U R S O R K E Y

This key moves the cursor down the menu.



7 . R I G H T C U R S O R K E Y

This key moves the cursor to the right of the menu.



8 . N U M B E R K E Y S

The numeric keys are used to enter values into the Caliprompter.

OPERATION NOTICE! ALERT!

Note: The following steps are only necessary if these parameters were not set up during the commissioning of the CS-230.

Prior to the operation of any of the Caliprompter functions as outlined in this manual, there are two (2) preparation steps that must be adhered to:

1. With a program key enter the program mode of the CS-230 unit and preset the following parameters (See Module 6C):
 - A. Parameter 50. Set the units of measure desired: Metric or Imperial.
 - B. Parameter 56. Set the present time on the 24 hour clock.
 - C. Parameter 58. Set the truck identification number.
 - D. Parameter 61. Set the current year. This parameter is only available in series 5 and higher software.
2. Now you must introduce the truck and it's personalized CS-230 to the Caliprompter. To do this merely perform a "Par Upload" as outlined in this manual.

**Simplified Overview
of Operation**

Basically, you use the up or down arrow cursor direction keys to scroll through the menu. Having found the desired menu function, use the right cursor key to enter that function. At that time the screen will instruct you to use the enter key to start the procedure and follow the word prompts as they appear on the readout screen. With the on-screen instructions you can use the Caliprompter to it's maximum potential with little or no additional help.

The Caliprompter can hold both calibration and logged data for 8 trucks. When a ninth truck is uploaded the information from the first truck entered will be deleted.

i.e. You can hold data on 8 trucks only. Therefore, once you have accumulated 8 trucks in the Caliprompter's memory you must now upload (see module 7F) that information to a personal computer or Printer. When you collect a ninth truck, the first truck entered is now erased.

S I M P L I F I E D O V E R V I E W
O F O P E R A T I O N
C O N T I N U E D



- Press the ON KEY
- The opening screen is displayed with the flashing cursor (>) in the top left corner.
- The digital readout displayed is as shown

```
> COMPU-SPREAD
  CALIPROMPTER
  (C) 1997 6.0
  PRESS ANY KEY
```

- The digital readout instructs you to "Press any key" to continue.

NOTE: The screen displays the version of software installed as well as the year manufactured.

- When you have done this, the screen displays the cursor flashing in the top left corner. Additionally, the screen displays part of the main menu.

```
> CALIPROMPTER <
  CONVEYOR CAL.
  GROUNDSPED CAL.
  UPLOAD LOG. INFO
```

- When you press the down cursor key the cursor will travel down the main menu. Since the main menu is longer than the screen, the menu will scroll up to facilitate the complete list.
- Complete list as shown:

Main Menu List

```
<> Caliprompter >
Conveyor Cal.
Groundspeed Cal.
Upload Log. Info
Display Log. Info
Print Log. Info
Clear Log. Info
Parameter Change
Par. Upload
Par. Download
Manual Control
PC Connection
Caliprompter Off
```

**C O N V E Y O R
C A L I B R A T I O N**

This is the function of determining the weight per revolution of the conveyor motor that is discharged through a known gate opening with a known material.

S C R E E N D I S P L A Y

N O T E S



```
> COMPU-SPREAD
  CALIPROMPTER
  (C) 1997 6.0
  PRESS ANY KEY
```

PRESS ANY KEY

```
> CALIPROMPTER <
  CONVEYOR CAL.
  GOUNDSPEED CAL.
  UPLOAD LOG. INFO
```



Press down cursor to Conveyor Cal.



```
< CONVEYOR CAL. >
  ENTER CONVEYOR
  PULSES/REV:
  16<
```

Standard sensor is 16 pulses per revolution. Press Enter unless a special sensor is used.



```
POINT TO CS220 !
```

Ensure CS-230 has been powered on. Direct the caliprompter at the front face of the CS-230 unit.

Use numeric keys to register weight

```
< CONVEYOR CAL. >
  ENTER MATERIAL
  START LOAD
  XXXX < [KG]
```

Weigh loaded truck and enter this weight divided by 10. E.g. total truck and load weight 35,000lbs. you would enter 3500 only. The units shown on the screen (kgs or lbs) will be determined by the choice of units entered in Parameter 50 of the CS-230 unit.



Press enter to enter weight

```
POINT TO CS220 !
```

**CONVEYOR
CALIBRATION
CONTINUED**

SCREEN DISPLAY

NOTES

Use numeric keys to register weight

```
< CONVEYOR CAL. >
ENTER MATERIAL
NUMBER : 1<
```

There are four choices of materials, you must assign a number to each material 1, 2, 3 or 4. E.g. Material 1 is Salt.



Press enter to enter material choice

```
POINT TO CS220 !
```

Use numeric keys to register gate opening

```
< CONVEYOR CAL. >
ENTER GATE
SETTING USED AT
CAL: 3<
```

Settings range from 1 - 10. Gate openings must be divided into 10 equal settings. E.g 1 - 10.



Press enter to enter gate opening

```
POINT TO CS220 !
```

Use numeric keys to register spinner speed

```
< CONVEYOR CAL. >
ENTER A SPR.
WIDTH POSITION
USED AT CAL:
```

During calibration spinner may be run at any desired speed from 0 to 9.



Press enter to enter spinner speed

```
POINT TO CS220 !
```

```
< CONVEYOR CAL. >
PRESS "ENTER"
TO START CAL
```

Once the enter key has been activated, unloading of selected material will begin. Ensure adequate quantity of material has been loaded for sufficient sampling.



```
POINT TO CS220 !
```

Conveyor is now discharging selected material.

CONVEYOR
CALIBRATION
CONTINUED

SCREEN DISPLAY

NOTES

```
< CONVEYOR CAL. >
PRESS "ENTER"
TO STOP CAL
```

Stop calibration after sufficient sampling time. Recommended time is 15-20 minutes



```
POINT TO CS220 !
```

Conveyor is now stopped.

```
< CONVEYOR CAL. >
ENTER MATERIAL
END LOAD
YYYY < [KGB]
```

Weigh truck with remaining load and enter this weight again divided by 10.
NOTE: Since you may have to travel some distance to weigh scale, during this time DO NOT TURN OFF the CS-230 power or the Caliprompter power.



```
POINT TO CS220 !
```

```
> CALIPROMPTER <
CONVEYOR CAL.
GROUNDSPEED CAL.
UPLOAD LOG. INFO
```

Screen returns to main menu. Calibration is now complete.

**GROUND SPEED
CALIBRATION**

This is the function of synchronizing the truck ground speed with the CS-230 measured speed.

S C R E E N D I S P L A Y

N O T E S



```
> COMPU-SFREAD
  CALIPROMPTER
  (C) 1997 6.0
  PRESS ANY KEY
```

PRESS ANY KEY

```
> CALIPROMPTER <
  CONVEYOR CAL.
  GROUND SPEED CAL.
  UPLOAD LOG. INFO
```



Press down cursor to Ground Speed Cal.



```
POINT TO CS220 !
```

Use numeric keys to register speed

```
<GRND SPEED CAL.>
  ENTER SPEED
  AT CALIBRATION:
  XXX <.1KM/HR
```

Enter the desired speed for the calibration.
NOTE: When entering speed remember that the screen display does not show the decimal. therefore if you select a speed of 20 you must enter as 200.
NOTE: Parameter 50 must be set in the units of your choice before beginning (km/hr or m/hr).



```
POINT TO CS220 !
```


**GROUND SPEED
CALIBRATION
CONTINUED**

S C R E E N D I S P L A Y

N O T E S

Use numeric keys to register gear

```
<GRND SPEED CAL.>
ENTER GEAR USED
AT CALIBRATION:
  0 OR 1
```

Gear used meaning
0 = Low
1 = High only which applies to units
supplied with 2 speed differentials.
NOTE: If using a two speed
differential you must calibrate
twice, once for each gear range.



```
POINT TO CS220 !
```

```
<GRND SPEED CAL.>
PRESS "ENTER"
TO START CAL: <
```



```
POINT TO CS220 !
```

```
<GRND SPEED CAL.>
PRESS "ENTER"
TO STOP CAL: <
```



```
POINT TO CS220 !
```

```
> CALIPROMPTER <
  CONVEYOR CAL.
  GOUNDSPEED CAL.
  UPLOAD LOG. INFO
```

Screen returns to main menu.
Calibration is now complete.

**U P L O A D I N G
L O G G E D D A T A**

This is the function of gathering from the CS-230 into the Caliprompter all the logged data pertaining to actual material spreading.

S C R E E N D I S P L A Y

N O T E S



```
> COMPU-SPREAD
  CALIPROMPTER
  (C) 1997 6.0
  PRESS ANY KEY
```



Cursor down to Upload Log. Inf

```
> CALIPROMPTER <
  CONVEYOR CAL.
  GROUNDSPED CAL.
  UPLOAD LOG. INFO
```



```
<UPLOAD LOG. INF>
PRESS "ENTER" TO
  START DATA
UPLOAD:          <
```



```
POINT TO CS220 !
```

When connection is being made, the screen will display "Uploading". When completed, screen will display "Ready".

```
UPLOADING
```

```
READY
```

```
> CALIPROMPTER <
  CONVEYOR CAL.
  GROUNDSPED CAL.
  UPLOAD LOG. INFO
```

Screen returns to main menu. Upload is now complete.

DISP L A Y
L O G G E D D A T A

This is the function that allows reviewing of the number of vehicles collected as well as the reflected time and date that the logged information was collected on.

S C R E E N D I S P L A Y

N O T E S



```
> COMPU-SPREAD
  CALIPROMPTER
  (C) 1997 6.0
  PRESS ANY KEY
```



Cursor down to Disp. Log. Inf



```
<DISPLAY LOG INF>
TRUCK (00): XXXX<
TIME/DATE
MATERIAL
```

The last truck uploaded will be displayed. The two digit number in brackets will be the Caliprompter file number for the entry from 00 to 07. The one to four digit number at the cursor will be the actual truck I.D. number.



Using the cursor up key you can see all trucks that have been uploaded into the Caliprompter.



When the correct truck has been selected, press enter. This will move the cursor to the left of the screen.



Select either Time/Date or Material for the truck you selected to view.

Note: This function allows only a quick reference as to when information was uploaded. For more detailed report transfer this information to a personal computer.

DISP L A Y
L O G G E D D A T A
C O N T I N U E D

S C R E E N D I S P L A Y

N O T E S



Use the cursor keys as shown to return to the main menu.

P R I N T
L O G G E D D A T A

Use this function for printing all spreading logged data information collected in the Caliprompter. You may print all the stored log information directly from the Caliprompter to a serial printer. Please note to print to a parallel printer, you must first enter the data into a P.C. and use the P.C. to direct the information to a parallel printer. See P.C. connection for further information.

Before beginning please review the following steps:

- Connect the RS 232 interface cable P/N 120342 to the Caliprompter and the printer.
- Ensure the Caliprompter contains data
- Ensure the Caliprompter is operating on fully charged batteries.
- Ensure you have the most recent version of software installed in the Caliprompter. (Consult Basic Technologies if you require assistance)
- Ensure you are connected to the printers serial port
- Ensure printer is configured as:
 - Data Bits - 8
 - Stop Bits - 1
 - Start Bits - 1
 - Parity Bits - None
 - Baud Rate - 4800 (Version 2 series)
 - Baud Rate - 9600 (Version 5 series)
- Complete all connections before turning printer on
- Ensure Printer is on line

PRINT
LOGGED DATA
CONTINUED

SCREEN DISPLAY

NOTES



```
> COMPU-SPREAD
CALIPROMPTER
(C) 1997 6.0
PRESS ANY KEY
```

PRESS ANY KEY

```
> CALIPROMPTER <
CONVEYOR CAL.
GROUNDSPEED CAL.
UPLOAD LOG. INFO
```



Down cursor to Print Log. Info



```
<PRINT LOG. INF>
TRUCK(00): XXXX<
PRESS "ENTER" TO
START PRINTING:
```

Select desired truck number with up and down cursor keys before pressing Enter.



```
ONE MOMENT PLS
PRINTER IS BUSY
```

```
PRINTING!
```

If you have properly configured serial printer as specified and your connection is good the next message will read "Printing". However, if a wrong or incompatible printer is selected or if the printer is Busy then the message "Printer is Busy" will be displayed. The only choice to escape is to disconnect and reconnect the battery, wait until the printer is ready and retry above procedure. If problems still persist check all connections and printer configuration for possible problems.

NOTE: The data stored will not be lost with a quick temporary battery disconnect.

PRINT
LOGGED DATA
CONTINUED

S C R E E N D I S P L A Y

N O T E S

```
> CALIPROMPTER <
  CONVEYOR CAL.
  GROUNDSPED CAL.
  UPLOAD LOG. INFO
```

Upon completion of printout for selected truck, screen will return to main menu awaiting the next command.

C L E A R L O G . I N F O

This function allows the user to select one of the eight log files and delete them from the Caliprompter.

S C R E E N D I S P L A Y



```
> COMPU-SPREAD
  CALIPROMPTER
  (C) 1997 6.0
  PRESS ANY KEY
```



Cursor down to Clear Log. Info



```
<CLEAR LOG.INFO>
TRUCK(00):XXXX
PRESS 'ENTER' TO
CLEAR THE INFO
```

The last truck uploaded will be displayed. The two digit number in brackets will be the Caliprompter file number for the entry from 00 to 07. The four digit number at the cursor will be the actual truck I.D. number.



Using the cursor up key you can see all trucks that have been uploaded into the Caliprompter.



When the correct truck has been selected, press enter. This will move the cursor to the bottom right of the screen.



Press enter again to clear the selected file. Once the file has been cleared, the cursor will move back to the main menu.

P A R A M E T E R C H A N G E S

This allows you to edit the control conditions set on a particular truck in the Caliprompter. This function must be preceded with a "Par Upload" and followed by a "Par Download" to complete a change to the selected truck.

S C R E E N D I S P L A Y

N O T E S



```
> COMPU-SPREAD
CALIPROMPTER
(C) 1997 6.0
PRESS ANY KEY
```

P R E S S A N Y K E Y

```
> CALIPROMPTER <
CONVEYOR CAL.
GROUNDSPEED CAL.
UPLOAD LOG. INFO
```



Down cursor to Parameter change



```
< PARAM. CHANGE >
TRUCK (00): XXXX<
```

Select the desired truck number by using the up or down cursor keys.

NOTE: The screen will always display the last truck entered.



```
< PARAM. CHANGE >
PAR. NMBR. 0 <
A.P. RATE KGR/KM
PAR. VALUE: 0
```

The screen display will show the first parameter available, which is 0. To view any other parameter, simply key in the number required.

NOTE: Consult CS-230 Programming and Calibration Manual for more information on Parameters available.

Use the numeric keypad to key in the parameter number required.



Press Enter to activate the chosen parameter

Once activated the cursor is now located at the parameter value. You are now able to change parameter to a new setting.

**P A R A M E T E R C H A N G E S
C O N T I N U E D**

S C R E E N D I S P L A Y

N O T E S

Use numeric keypad to key in new parameter values



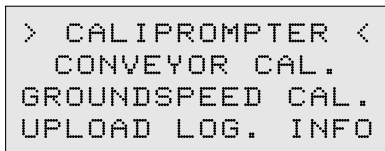
Press Enter to confirm value change



Cursor up to sub-menu title
<Param. Change>



Cursor left to return to main menu



The cursor will now travel from parameter value to the parameter number. You may now select another parameter number that requires changes or use the left cursor to escape to the parameter sub-menu.

NOTE: Any changes you made in the sub-menu will be stored as you left them until a further change is made.

NOTE: Parameter 90 through 93 identify a specific load name. To change the alphabetical characters, enter the required parameter, then use the arrow keys. The left and right arrows select the character position. The up and down arrows select the different characters. Press enter when complete.

NOTE: Any parameter change made in the Caliprompter remains only changed in the Caliprompter until you perform a "Par.Download". Only after a "Par Download" will the change be communicated to the CS-230.

CAUTION: It is possible to Download the parameter set of any truck number to any other truck number. This facilitates a quick method to calibrate a fleet of identical trucks after performing a full calibration of only one truck.

However, you must be aware that this feature also allows you to enter a complete parameter set into the wrong truck if you have selected the incorrect truck identification number before downloading. Always double check Truck Identification numbers to ensure this does not happen.

P A R A M E T E R U P L O A D

This operation will gather all the parameters stored in a CS-230 unit associated to the truck number entered into parameter 58 of that CS-230 unit. This should always be your first operation performed on every truck to introduce the Caliprompter to the truck Identification Number within the CS-230.

S C R E E N D I S P L A Y

N O T E S



```
> COMPU-SPREAD
  CALIPROMPTER
  (C) 1997 6.0
  PRESS ANY KEY
```

PRESS ANY KEY

```
> CALIPROMPTER <
  CONVEYOR CAL.
  GROUNDSPED CAL.
  UPLOAD LOG. INFO
```



Down cursor to Par. Upload



```
< PARAM. UPLOAD >
  PRESS "ENTER" TO
  START PARAMETER
  UPLOAD: <
```



```
POINT TO CS220 !
```

When communication has been made with the CS-230 the readout will display "Uploading"

```
UPLOADING
```

When all information from the CS-230 has transferred to the Caliprompter, the screen will read "Ready" and then return to main menu.

```
READY
```

**P A R A M E T E R
D O W N L O A D**

This operation allows the transferring of stored parameter values in the Caliprompter to a selected CS-230 unit.

S C R E E N D I S P L A Y

N O T E S



```
> COMPU-SPREAD
  CALIPROMPTER
  (C) 1997 6.0
  PRESS ANY KEY
```

P R E S S A N Y K E Y

```
> CALIPROMPTER <
  CONVEYOR CAL.
  GROUNDSPED CAL.
  UPLOAD LOG. INFO
```



Down cursor to Par. Download



```
<PARAM. DOWNLOAD>
TRUCK (00): XXXX<
```

The parameter set shown will refer to the last truck uploaded. The two digit number is the file number entered into the Caliprompter. The 1 to 4 digit number to the right of the screen identifies the associated truck number.



Use up arrow to select another trucks parameter set. Cursor up until the desired truck number appears.



```
<PARAM. DOWNLOAD>
PRESS "ENTER" TO
START PARAMETER
DOWNLOAD: <
```

PARAMETER
DOWNLOAD
CONTINUED

SCREEN DISPLAY

NOTES



POINT TO CS220 !

DOWNLOADING

When communication has been established the screen will display "Downloading".

READY

When all parameter information has been transferred, the screen will display "Ready" and then return to the main menu.

M A N U A L C O N T R O L

With this operation you may remotely and manually control the spinner and conveyor (auger) providing pump flow is available.

S C R E E N D I S P L A Y

N O T E S



```
> COMPU-SPREAD
  CALIPROMPTER
  (C) 1997 6.0
  PRESS ANY KEY
```

PRESS ANY KEY

```
> CALIPROMPTER <
  CONVEYOR CAL.
  GROUNDSPED CAL.
  UPLOAD LOG. INFO
```



Down cursor to Manual Control



```
POINT TO CS220 !
```

Upon communication link with the CS-230, the screen will display as shown.

```
<MANUAL CONTROL>
  > CONVEYOR: 0
    SPINNER: 0
    REVERSE: 0
```

The sub-menu shows a selection of conveyor, spinner and reverse (auger). The cursor will be presently sitting on conveyor. All speeds are at 0.



Down cursor to operation of choice



Cursor right once selected

```
<MANUAL CONTROL>
  > CONVEYOR: 0
    SPINNER: 0 <
    REVERSE: 0
```

Cursor has now moved to the right of screen the next to a chosen function. You must now choose the speed you wish to operate at.

Use the numeric keypad to enter a speed

```
<MANUAL CONTROL>
  > CONVEYOR: 0
  > SPINNER: 500 <
    REVERSE: 0
```

In the example, the spinner has been selected and set to run at 50.0% of its maximum speed. Note the readout must display 500 because the decimal is not shown.

**M A N U A L C O N T R O L
C O N T I N U E D**



Press enter to start function



Cursor left to shut off function



Cursor up to go to sub-menu title



Cursor left to return to Caliprompter's main menu

S C R E E N D I S P L A Y

N O T E S

The spinner will now run at 50.0% with the display on the CS-230 showing P71 > 50.0. This means Parameter 71 (Manual spinner) is running at 50.0% capacity.

The left cursor must be operated 3 times to reduce the function to a minimum speed and finally to off. This shut off method eliminates shock to the system that could be caused from turning a function off too fast.

```
> CALIPROMPTER <  
CONVEYOR CAL.  
GROUNDSPEED CAL.  
UPLOAD LOG. INFO
```

CS-230 screen will now return to its original display.

P . C . C O N N E C T I O N



Use this function to transfer all data gathered by the CS-230 into a Computer. This connection also facilitates parameter sets to be uploaded or downloaded between the Caliprompter and a Computer.

Before beginning please review the following steps

- Connect the RS-232 Interface cable P/N 120342 to the Caliprompter and either COM1 or COM2 of the computer depending on your system configuration
- Ensure the Caliprompter contains data
- Ensure the Caliprompter is operating on fully charged batteries
- Ensure you have the most recent version of software installed in the Caliprompter (Consult Basic Technologies if you require assistance)
- If using Version 6.1 series software refer to module 7F for instructions on how to load and use the computer software.

P . C . C O N N E C T I O N
C O N T I N U E D

Proceed as follows

S C R E E N D I S P L A Y

N O T E S



```
> COMPU-SPREAD  
CALIPROMPTER  
(C) 1997 6.0  
PRESS ANY KEY
```

PRESS ANY KEY

```
> CALIPROMPTER <  
CONVEYOR CAL.  
GROUNDSPEED CAL.  
UPLOAD LOG. INFO
```



Down cursor to P.C. Connection



```
< PC CONNECTION >  
PRESS ENTER TO  
QUIT THE PC  
CONNECTION <
```

Caliprompter is ready to communicate with P.C. For operation of computer software, please refer to module 7F software operation.

CALIPROMPTER OFF

SCREEN DISPLAY

NOTES



Down cursor Caliprompter OFF

```
> CALIPROMPTER <  
CONVEYOR CAL.  
GROUNDSPEED CAL.  
UPLOAD LOG. INFO
```



```
<CALIPROMP. OFF>  
PRESS "ENTER" TO  
SHUT DOWN  
CALIPROMPTER <
```



This ends all screen activities of the Caliprompter. However, the memory remains active.