

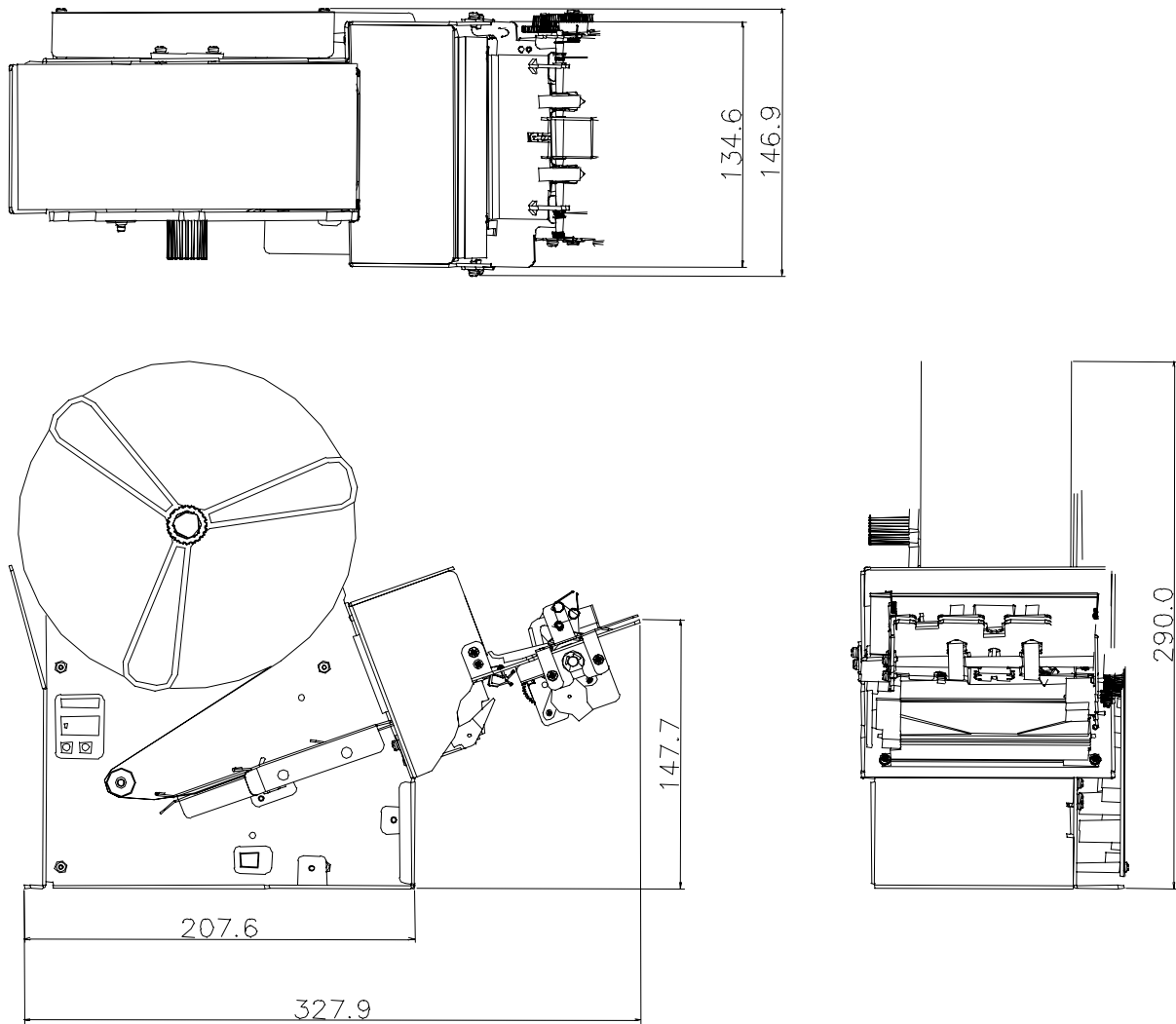
Chapter 8. Receipt Printer

8. Receipt Printer

8.1 Appearance/Arrangement Plan

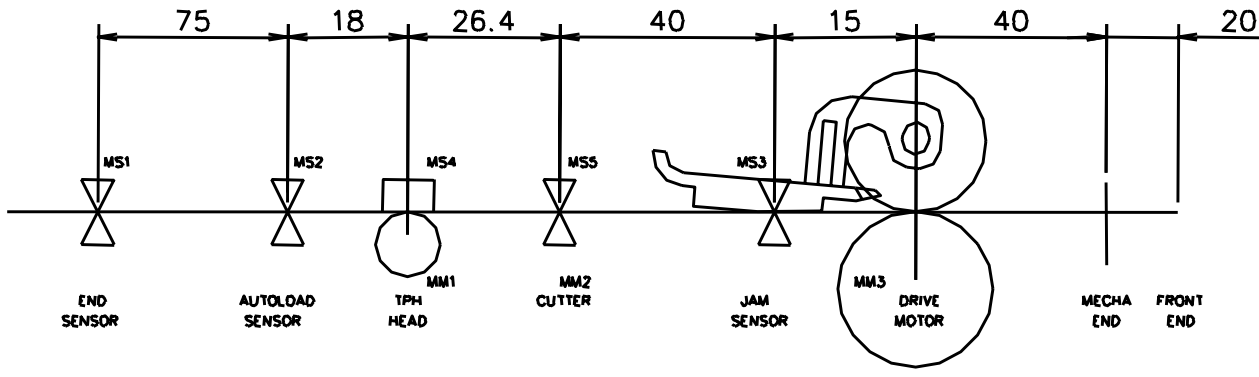
8.1.1 Appearance

The following figure shows the external appearance of Receipt Printer. Its dimensions are 146.9mm(W) X 290mm(H) X 327.9mm(L).



<Figure> Appearance of Receipt Printer (P/N: 728656-10)

8.1.2 Arrangement Plan



<Figure> Arrangement Plan of Sensors

NO	Symbol	Name	Usage	Sensor Type	Initialization
1	MS1	End Detection Sensor	End Detection	SG 405	Default: Off
2	MS2	Autoload Sensor	Paper Autoload	Sensor of Nautilus Hyosung	Default: Off
3	MS3	Jam Sensor	Detects paper jam	SG 405	Default: Off
4	MS4	TPH Cover Switch	TPH Cover Open Switch	Internal Switch	Default: On
5	MS5	Cutter Switch	Identifies cutter regular position	Internal Switch	Default: On
6	MM1	Paper Returning Motor	Returns the paper	Internal Motor	Default: Off
7	MM2	Cutter Motor	Drives the cutter	Motor of Nautilus Hyosung	Default: Off
8	MM3	Paper Returning Motor	Returns the paper	PM20S	Default: Off

<Table> Functions of the Sensor and the Actuator

8.1.3 General Specification

Power	DC 24V
Paper Dimension	80mm (Width) 110mm (Length) 72gsm
Operating Environment	Temperature: 0 ~ 55 / Humidity: 10 ~ 80%
Rate	100mm/s
Issuance Count	Approximately 3,200 transactions (based on 101.6mm per transaction)

8.2 Repair and Maintenance

8.2.1 Replacing the End Sensor

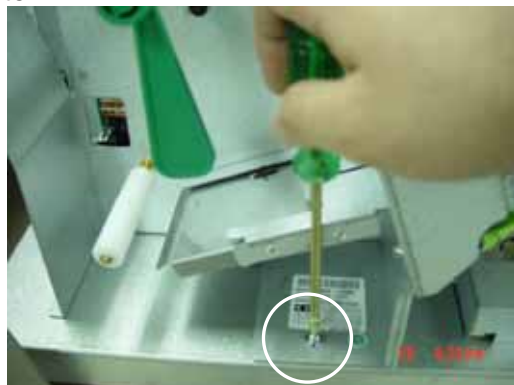
- 1) Open the front part.



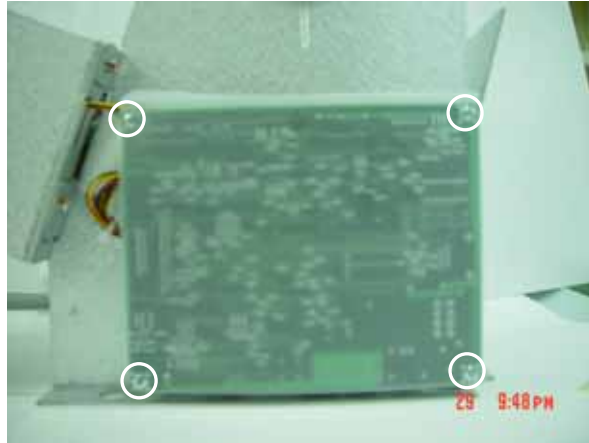
- 2) Disconnect the power & Interface connector from the Receipt Printer.



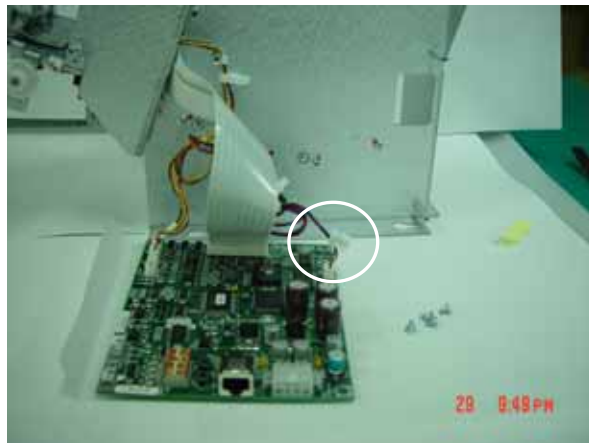
- 3) Unscrew Receipt Printer fixing screws (PH(+):S/W:F/W(L):M3X6) using a driver, and remove the mecha from the system.



- 4) Unscrew four main board (723356-01) fixing screws (BH(+)::M3X6), and remove the board.



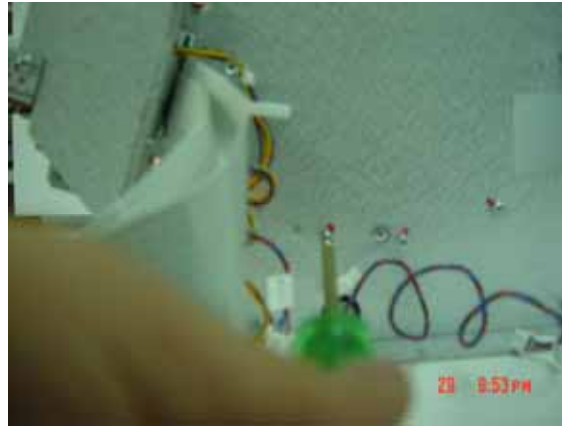
- 5) Disconnect the end sensor connector from the main board (723356-01).



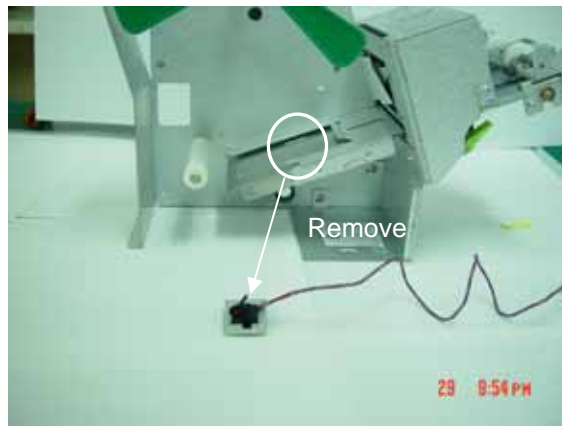
- 6) Remove the cable tie binding the end sensor cable with a pair of nippers.



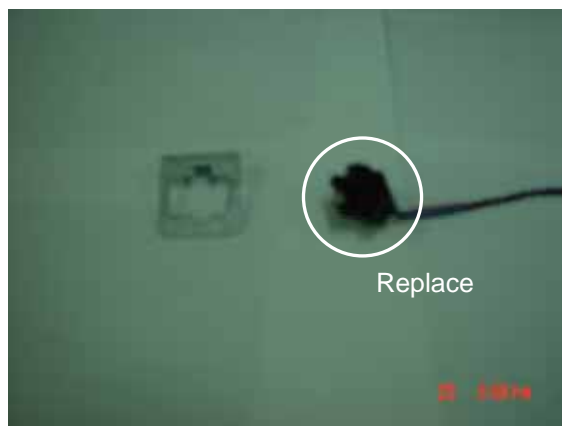
- 7) Unscrew the screw (PH(+):S/W:F/W(S):M3X6) that fixes the end sensor fixing bracket (456820-01).



- 8) Remove the end sensor (216856-01).



- 9) Remove the end sensor (P-INTERRUPTER: SG405CD, 216856-01) from the bracket (End_Sensor, 456820-01), and install a new end sensor.

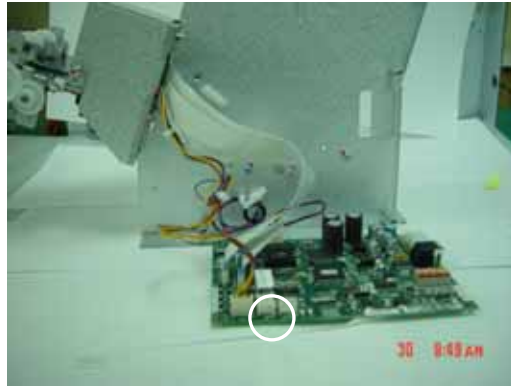


- 10) Assemble in the reverse order of Steps 1) ~ 9).

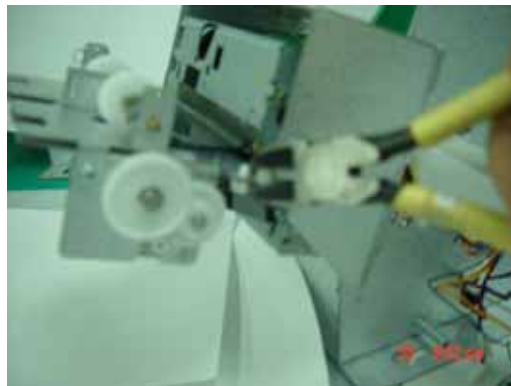
8.2.2 Replacing the JAM Sensor

Same as Steps 1) ~ 4) of 8.2.1 above.

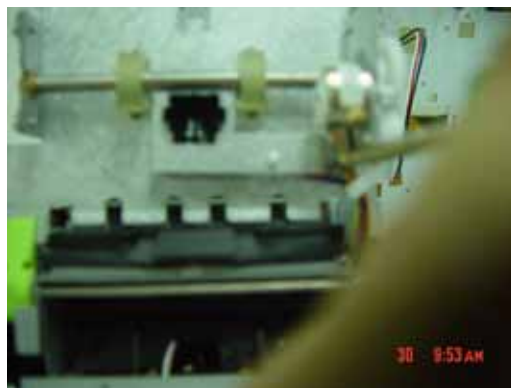
5) Disconnect the jam sensor connector from the main board.



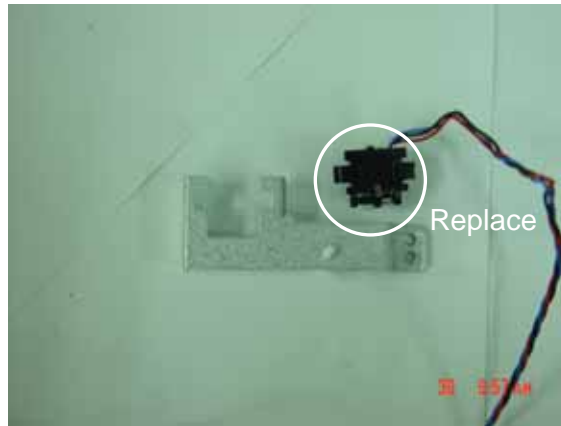
6) Cut the tie biding the cable with a pair of nippers.



7) Unscrew the screw (PH(+):S/W:F/W(S):M3X6) that fixes the jam sensor fixing bracket (456822-01).



8) Remove the sensor from the bracket (Jam Sensor, 456822-01), and install a new sensor.

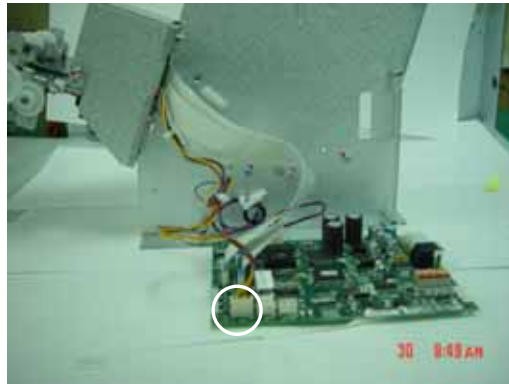


9) Assemble in the reverse order of Steps 1) ~ 8).

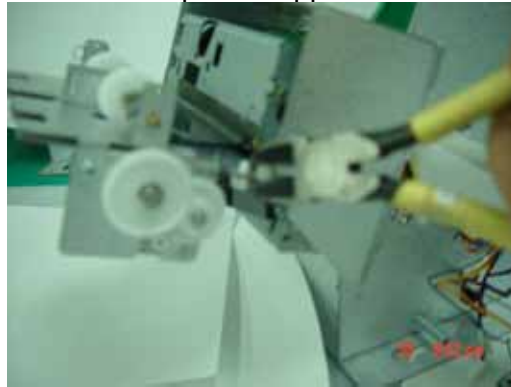
8.2.3 Replacing the Motor (564057-01)

Same as Steps 1) ~ 4) of 8.2.1 above.

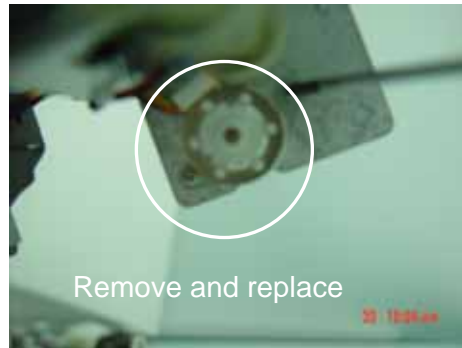
5) Disconnect the connector from the motor.



6) Cut the tie binding the cable with a pair of nippers.



7) Unscrew the screw (PH(+):M2x6:W/ZN) that fixes the motor on the assembly:guide outlet (728813-01), and replace the motor.



8) Assemble in the reverse order of Steps 1 ~ 5.

8.2.3 Replacing TPH (M-T482AF_W/Cutter, 574226-11)

Same as Steps 1) ~ 4) of 8.2.1 above.

5) Disconnect connectors from the board, and remove the mecha and the board.



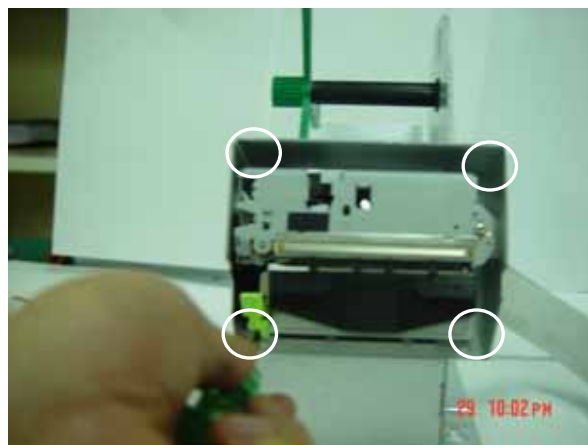
- 6) Cut the tie binding the motor (564057-01) and jam sensor cables with a pair of nippers.



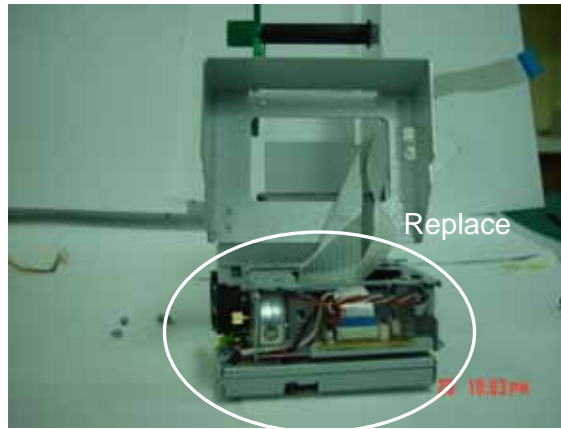
- 7) Unscrew three screws (PH(+):S/W:F/W(S):M3X6), and remove assembly:guide outlet (728813-01).



- 8) Unscrew four screws (PH(+):S/W:F/W(S):M3X6) that fixes the TPH on the bracket (TPH_SUPPORT, 456825-01) using a driver, and remove the TPH.



- 9) Disconnect the TPH cable from the bracket (456825-01), and replace the TPH.



- 10) Assemble in the reverse order of Steps 1) ~ 9).

11) Notes on Assembling

- Be careful not to damage the TPH during assembling.
- Horizontally adjust the TPH assembly to match the inlet with the guide inlet during Step 8).
- The assembly/guide outlet shall not move after Step 7).
- The TPH laver's operation shall not interfere with the buide after Step 7).

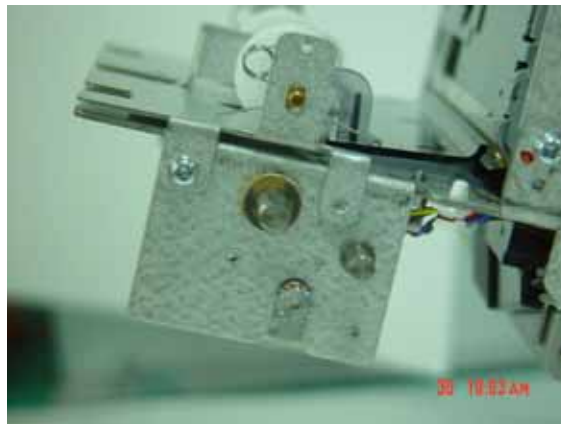
8.2.4 Oiling

- Inject Terras oil and grease in the gear and the shaft of the assembly:guide outlet.
- Oil injecting method is described below:

1) Remove E-ring from the driving gear (452182-01) of the assembly:guide outlet (728813-01).



2) Remove E-ring that fixes the driver roller (470386-01) shaft, and then, remove the roller.



3) Inject a proper amount of Terrsa oil where the bush and the roller meets. (This is for smooth rotation of the shaft.)



- 4) Assemble in the reverse order of Steps 1) ~ 3).
- 5) After assembling, inject a proper amount of white great to the gear teeth.