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OPERATING INSTRUCTIONS
FOR
Gold-Count™
Taped Axial, Radial & SMT Component Counter

Model GC-10/GC-12
(GC-RS w/GC-12 only)



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I. SYSTEM INVENTORY

A. GC-12

1. Base Unit (GC-10 counter)
2. Front Slide Block (attached)
3. Power Cord
4. Pin-Wheel assembly for SMD (attached)
with magnetic guide
5. Reel Stand (GC-RS) w/Crank Handle

II. UTILITIES

- A. Power.....115 VAC, 50/60Hz, 1 Amp
(220 VAC, 50/60Hz, 1 Amp, Option)

III. SET-UP AND INSTALLATION

(Refer to Fig. 1)

A. Reel Stand

1. Position reel stand on sturdy benchtop
2. Place Counter Unit on Reel Stand, insert 4 feet in
holes provided in base

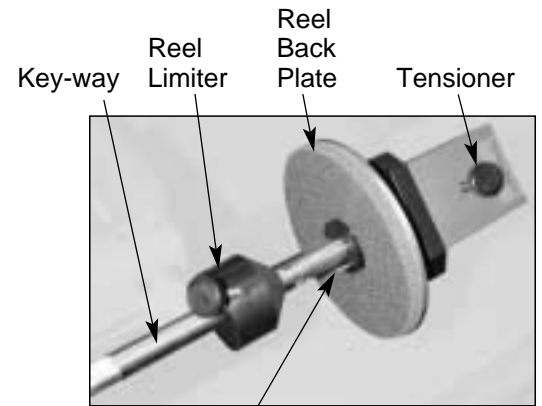


Fig. 1a

Insure that 2 pins on each
Back Plate fit "into" SMT reels

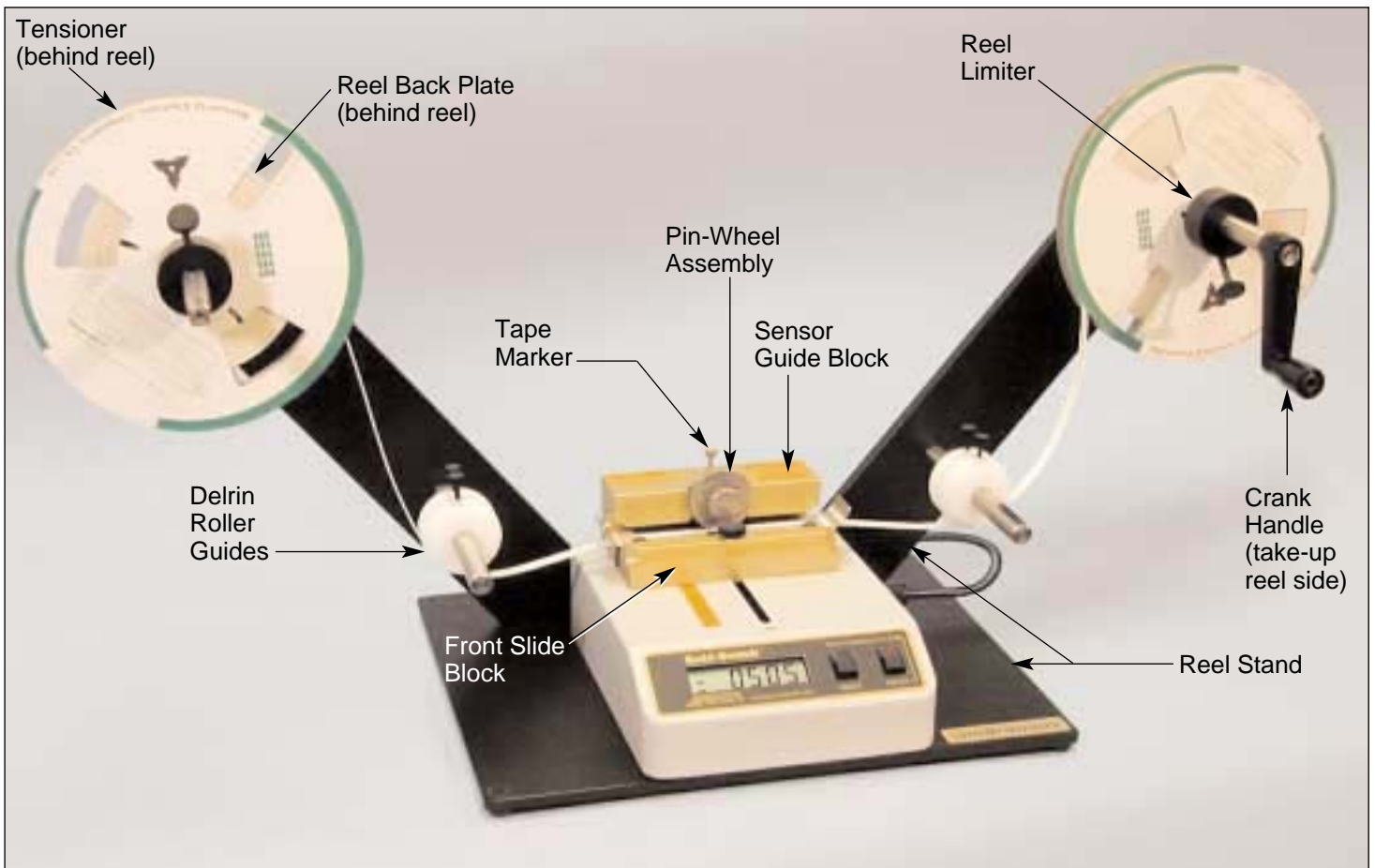
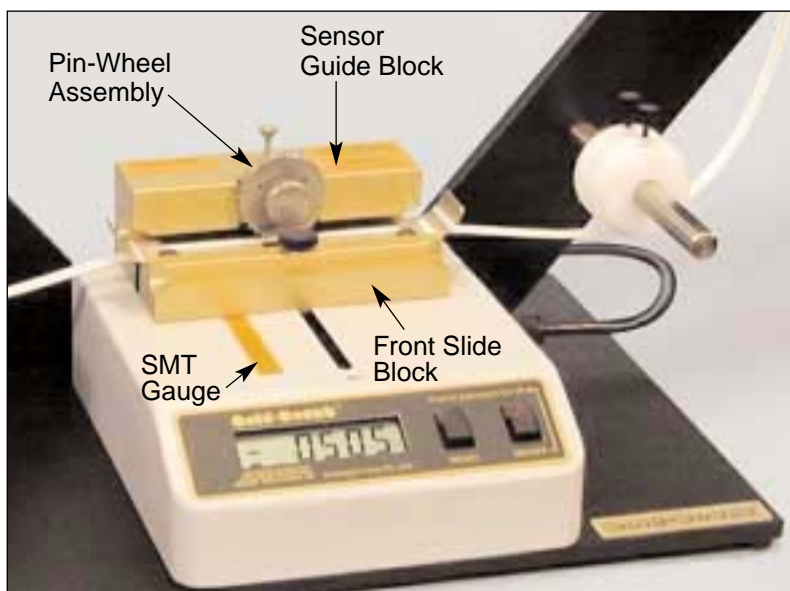


Fig. 1 GC-12

IV. SET COUNTER FOR AXIAL, RADIAL OR SMD

A. Surface Mount Components (refer to Figs. 1, 2 & 3)

1. Slide Reel Back Plate on each spindle towards the front position, turn to right to lock
2. Remove Reel Limiter
3. Install full reel at left side with components feeding from top of reel. Insure that 2 pins in Back Plate fit into both reels. (refer to Fig.1a, Pg. 2)
4. Replace Reel Limiter with thumb screw tightened into Key-way on spindle (Secure reel on pins against foam rubber on Reel Back Plate)
5. Install take-up reel at right side
- 6.. Replace Reel Limiter with thumb screw tightened into Key-way on spindle (Secure reel on pins against foam rubber on Reel Back Plate)
7. Install Pin-wheel assembly (tighten thumb screw)-see Fig. 3
8. Install magnetic SMT guide against back Sensor Guide Block (Fig.3)
9. Loosen and rotate front Tape Guide so that stainless steel tape guide faces Sensor Guide Block (Fig. 5)
10. Adjust Front Slide Guide so that front edge lines up with proper mm mark on gauge
11. Feed components through guide on counter so that front slide guide allows tape to move freely from left to right take-up reel (lock guide thumb screw)
12. Adjust Delrin Guides for tape width: Refer to Fig 4. (keep components centered all along the track)
13. Attach crank handle to take-up reel side
14. Adjust tensioners so that reels don't backspin (Fig. 1a)



SMT count set-up: **Fig. 2**

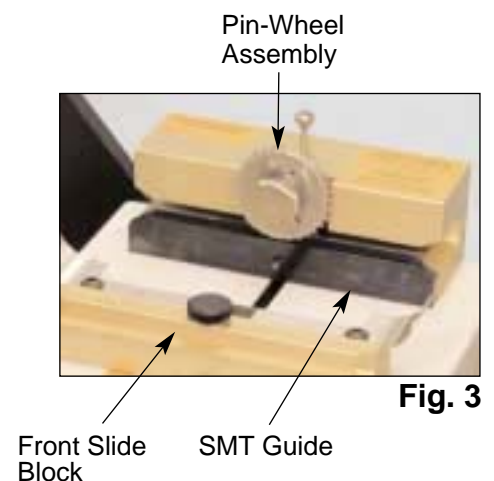
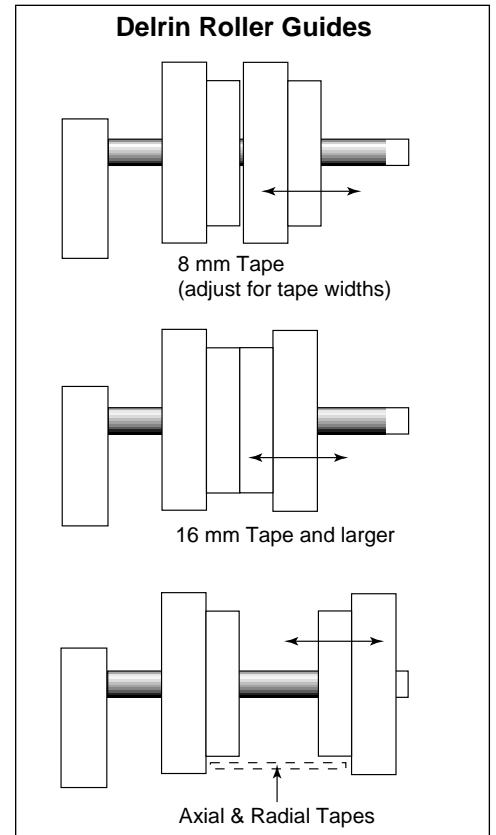


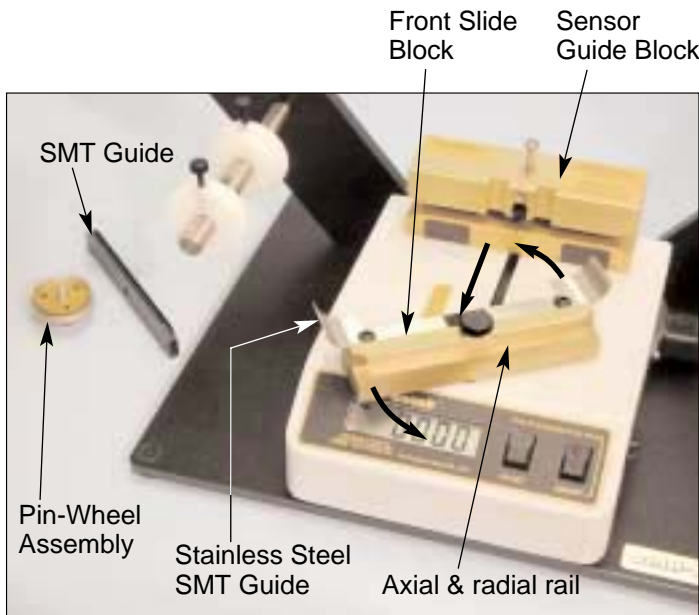
Fig. 3

B. Axial Components (Refer to Fig. 3)

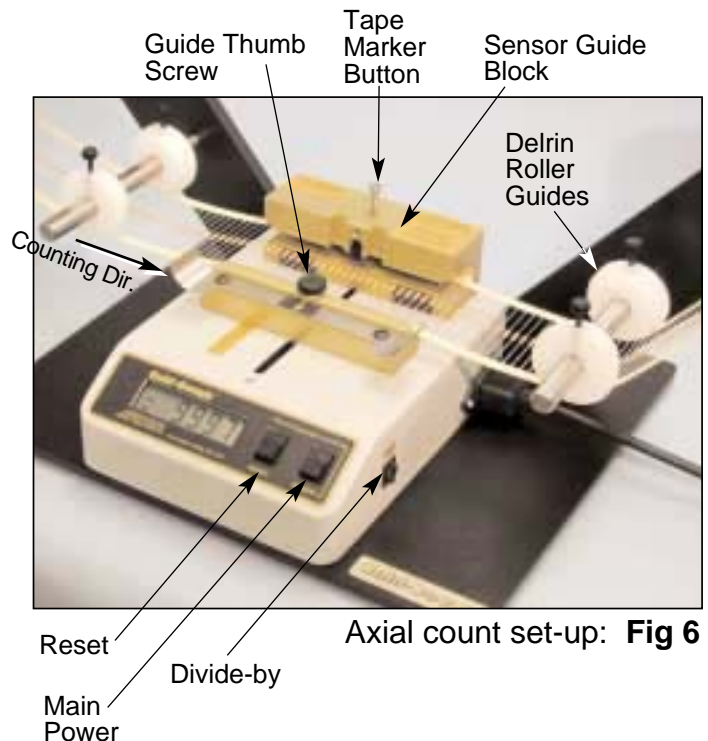
1. Remove Pin-Wheel assembly and SMT Guide (magnetic), and store both behind counter (Fig. 7a)
2. Position both Reel Back Plates in rear position against Tensioner Block
3. Remove Reel Limiter
4. Install full reel at left side with components feeding from top of reel
5. Replace Reel Limiter with thumb screw tightened into Key-way on axil (compress reel tight against foam rubber on Back Plate)
6. Loosen and rotate front Tape Guide so that side with gold rail faces Sensor Guide Block (Fig. 5)
7. Feed components through guide on counter so that front slide guide allows tape to move freely from left to right take-up reel (lock guide thumb screw)
8. Install take-up reel at right side with taped components feeding clockwise
9. Place Reel Limiter with thumb screw tightened into Key-way on axil (compress reel tight against foam rubber on Back Plate)
10. Set Delrin Roller Guides to width of tape - Fig. 4 (keep components centered all along the track)
11. Attach crank handle to take-up reel side
12. Adjust tensioners so that reels don't backspin (Fig. 1a)



Delrin Tape Guide Set-ups: **Fig. 4**



Changeover: **Fig. 5**



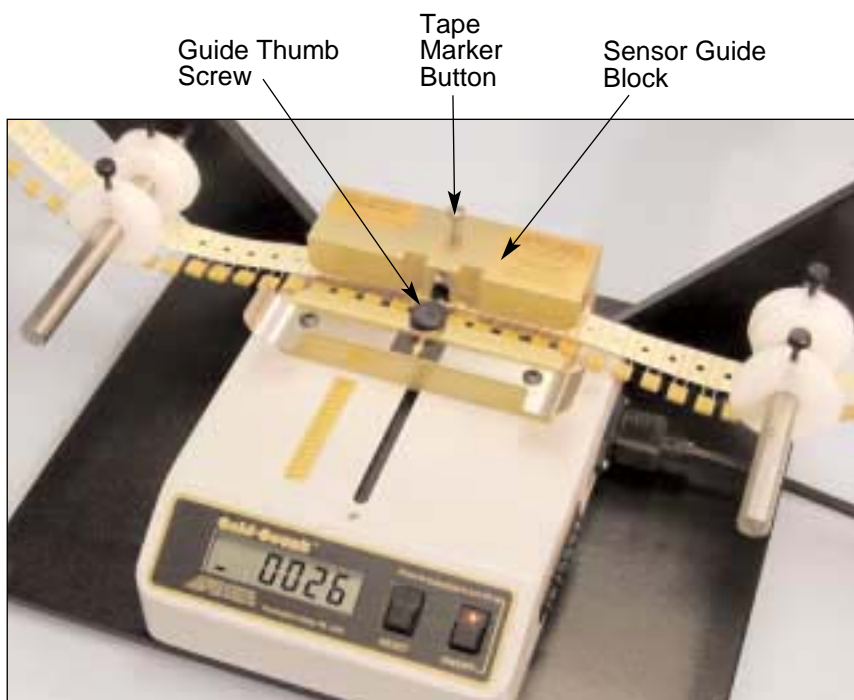
Axial count set-up: **Fig 6**

C. Radial Components (Refer to Figs. 5 & 7)

1. Remove Pin-Wheel assembly and SMT Guide (magnetic), and store both behind counter (Fig. 7a)
2. Position both Reel Back Plates in rear position against Tensioner Block
3. Remove Reel Limiter
4. Install full reel at left side with components feeding from top of reel
5. Replace Reel Limiter with thumb screw tightened into Key-way on axil (compress reel tight against foam rubber on Back Plate)
6. Loosen and rotate front Tape Guide so that side with gold rail faces Sensor Guide Block (Fig. 5)
7. Feed components through guide on counter so that front slide guide allows tape to move freely from left to right (lock guide thumb screw)

NOTE: Depending on configuration of taped radial components, the components can face forward against the slide guide or towards the rear sensor guide block

8. Install take-up reel at right side with taped components feeding clockwise
9. Replace Reel Limiter with thumb screw tightened into Key-way on axil (compress reel tight against foam rubber on Back Plate)
10. Set Delrin Roller Guides to width of tape (keep components centered all along the track) Fig. 4, pg. 4
11. Attach crank handle to take-up reel side
12. Adjust tensioners so that reels don't backspin (Fig. 1a)



Radial count set-up **Fig. 7**



SMT guide & pin-wheel storage behind counter **Fig. 7a**

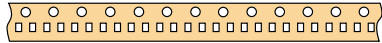

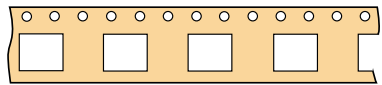
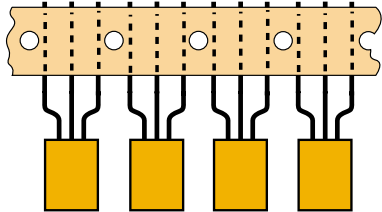
V. COUNTER OPERATION

A. Normal AC Operation

1. Plug cord into 110 VAC outlet
2. Press main power on, but don't hold (red indicator)
3. Press Reset button before counting parts
4. To turn off, press and hold ON/OFF for 2 seconds

B. Set Divide-By (see examples at right)

1. Press Divide-By Button until proper number appears
2. Use 1 for axial components, 2 to 7 for radials (one for each lead) and 1 to 7 for SMDs depending on # of holes per device.
3. For 0402 SMTs with 2 components per hole, set to 0 (it multiplies by 2)
4. Changes take effect after reset is pressed

DIVIDE-BY EXAMPLES	
<u>Tape configuration</u>	<u>Set at</u>
	0
	1
	3
	3

VII. DAILY REGULAR MAINTENANCE

Clean upper and lower sensors with clean dry compressed air.

CALIBRATION NOTE: This GC-Series counter does not require (yearly) calibration; however, APS offers this service to customers who require it (215-938-1000).

Controls **Fig. 8**

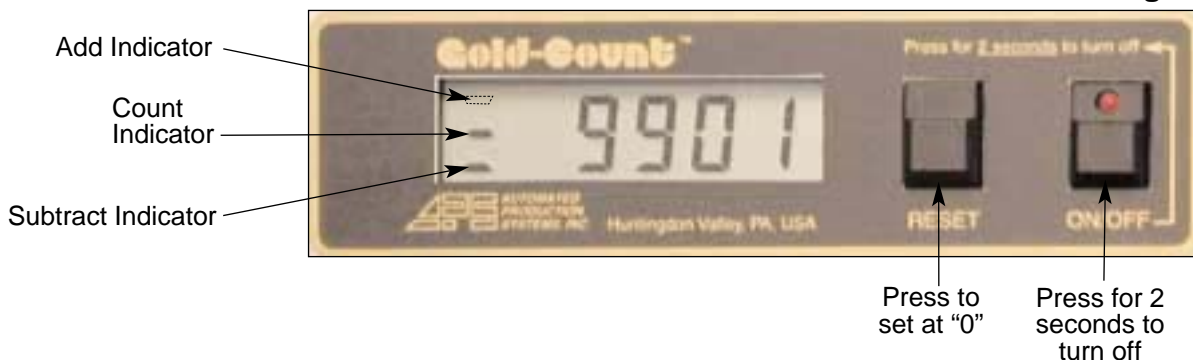


Fig. 9



Reel Stand Parts		
<u>Qty.</u>	<u>Part No.</u>	<u>Description</u>
2	GC-101	Reel Limiter
4	GC-111	Tape Limiter
1	GC-121	Crank Handle
2	GC-131	Reel Shaft Assembly
1	GC-141	Left Upright
1	GC-151	Right Upright
2	GC-161	Tape Limiter Shaft
1	GC-171	Base Plate
2	GC-181	Reel Back Plate Assembly
4	GC-132	Roller Bearings

GC-10 Counter		
<u>Qty.</u>	<u>Part No.</u>	<u>Description</u>
1	GC-191	Rear Guide Assembly
1	GC-211	Front Guide Assembly
1	GC-221	Tape Marker w/spring
1	GC-231	Sensor Assembly
1	GC-241	Magnetic SMT Guide
1	GC-251	Pin Wheel Assembly
1	GC-261	Gauge Sticker
1	GC-271	Power Cord
1	GC-281	Fuse (50 mA 250V)
1	GC-311	Cherry Switch
1	GC-321	Lighted Switch
1	GC-331	Reset Switch
1	GC-341	Power Receptacle
1	GC-351	Counter PCB Assembly
1	GC-361	Enclosure (top & bottom)
1	GC-381	Main PCB
1	GC-391	Display PCB

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