radarsign™ Model TC-500A

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SNTC500A00001

FCC ID: TAU-TC-500

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

5095 Performance Resin
Thermal Transfer Ribbon

Description:

Our performance resin ribbon formulation that produces images resistant to most harsh environments: smearing, moisture, abrasion, extreme temperature and chemicals when printed on Zebra's synthetic label and tag materials. The low energy requirements for this ribbon will allow for excellent print quality even on some Zebra paper labels.

UL Recognized and CSA Accepting Printing Systems with the following materials:

- Z-Ultimate® 3000 White
- Z-Ultimate® 3000 Silver
- Z-Ultimate® Select 3000 White (UL Only)
- Z-Ultimate® Select 3000 Silver (UL Only)
- Z-Ultimate® 3000 Color
- Z-Xtreme 3000 White™
- Z-Xtreme 3000 Silver™
- Z-Xtreme 4000 White™
- Z-Xtreme 3000 White™

Suggested Applications:

- Labels which are repetitively wand-scanned
- Labels subject to abrasion or friction
- Shelf and scan-pallet labels
- Outdoor labeling applications in extreme environments
- Chemical container labels
- Labels exposed to water, alkali or acid solutions

Technical Specifications

5095 Performance	
Color	Black
Ink Formulation	Resin
Base Film	Polyester
Base Film Caliper	4.5 microns
Scanning Capabilities	IR and Visible Light
Ribbon Length(s) / Inner Core Width(s)	**450m** (1476 ft.) /25.4mm (1.0") OR **91m** (298 ft.) / 12.7mm (0.5")
Stocked Widths (450m Length)	40, 60, 83, 89, 110, 131, 154, 174, 220mm **(**1.57", 2.36", 3.27", 3.50", 4.33", 5.16", 6.06", 6.85", 8.66"**)**
Stocked Widths (91m length)	64, 84, 110mm **(**2.52", 3.31", 4.33"**)**

Recommended Storage Conditions: 23°F to 104°F (-5°C to 40°C) at 20% to 85% RH

Z-Endure 3000 White™

Thermal Transfer Material

Description:

Z-Endure 3000 White is a 2.0 mil thermal transfer printable acrylic label. The special acrylic film and high performance acrylic adhesive offer 10-year outdoor durability. This product will endure long-term outdoor weathering. Excellent print quality when combined with Zebra's resin ribbons.

Suggested Applications

- Vending machines
- Utility meters
- Outdoor tools/equipment

Suggested Contacts

- Department Managers
- Production Manager
- Using Departments

Technical Specifications

	Description		Caliper
Facestock	Top-coated, white acrylic		2.0 mil
Adhesive	High performance acrylic adhesive		0.8 mil
Liner	50 lb. semi-bleached kraft		3.2 mil
		Total	6.0 mil

Recommended Zebra Ribbons:	4100, 5095, 5100
Minimum Application Temperature:	50°F (10°C)
Service Temperature Range:	-40°F to 302°F (-40°C to 150°C)
Recommended Storage Conditions:	32°F to 70°F (0°C to 21°C) at 35% to 50% RH

Note: All products should be pre-tested to ensure that they meet all intended requirements of specific end-use applications. For testing of this material please order SAM5827.

5095 Bar Code Scannability

The below scannability testing was performed on Z4000, 140Xi, 140Xiii, 90Xiii, 170Xi, 105S, and Stripe 500.

Label Facestock	Print Speed	Bar Code	Lab Results
Coated Paper Labels and Tags	Up to 4 ips	10 mil normal code	Typical ANSI Grade A
Synthetics	Up to 6 ips	10 mil normal code	Typical ANSI Grade A
Coated Paper Labels and Tags	Up to 4 ips	15 mil rotated code	Typical ANSI Grade B
Synthetics	Up to 6 ips	15 mil rotated code	Typical ANSI Grade B

5095 Performance Analysis

All of the below tests were performed using 10 cycles (20 rubs) with the crockmeter.

Test Solvents	Z-Ultimate® 3000 White	Z-Xtreme™ 4000 White
Glass Cleaner w/Ammonia	*	*
Formula 409*	*	*
Skydrol*		
Motor Oil	*	*
Brake Fluid		✓
Gunk Degreaser*	*	*
WD-40*	*	*
Genesolv*		
Rho-Tron*	✓	
Hexane	*	*
Xylene		
Gasoline	✓	✓
Acetone		
Alcohol (90% Isopropyl Alcohol)	*	*

*Trademarks of the respective companies.

* Scanning receives a "B" ANSI grade or better
✓ **S**canning receives a "F" ANSI grade or better
☐ Barcode does not scan

All products should be pre-tested to ensure it meets all intended requirements of specific end-use applications. For testing of this product, please order sample ribbon 4100BK08005.

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Engineering Change Notice

Date: November 1, 2005 Number : 000002

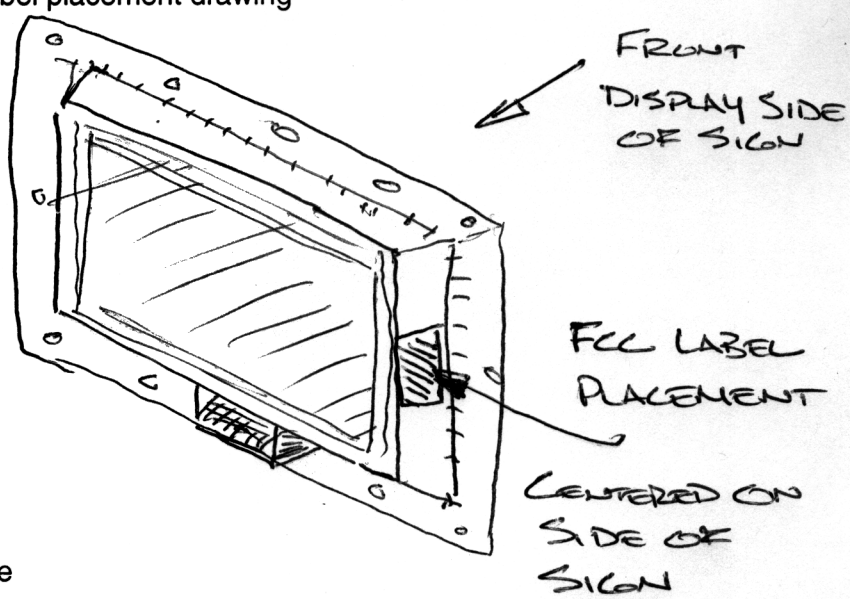
Change : Indicate location of FCC label placement

Reason for change : Required for FCC compliance

Date of implementation : Immediate – first production units

Requestor : C. Barry Ward

Documents affected : new – label placement drawing



Duration of change : until further notice

Date of implementation : first production unit completion

Models affected : All TC-500 units covered under TAU-TC-500

Approvals:

Engineering: _____ Date: _____

Production: _____ Date: _____

Marketing: _____ Date: _____