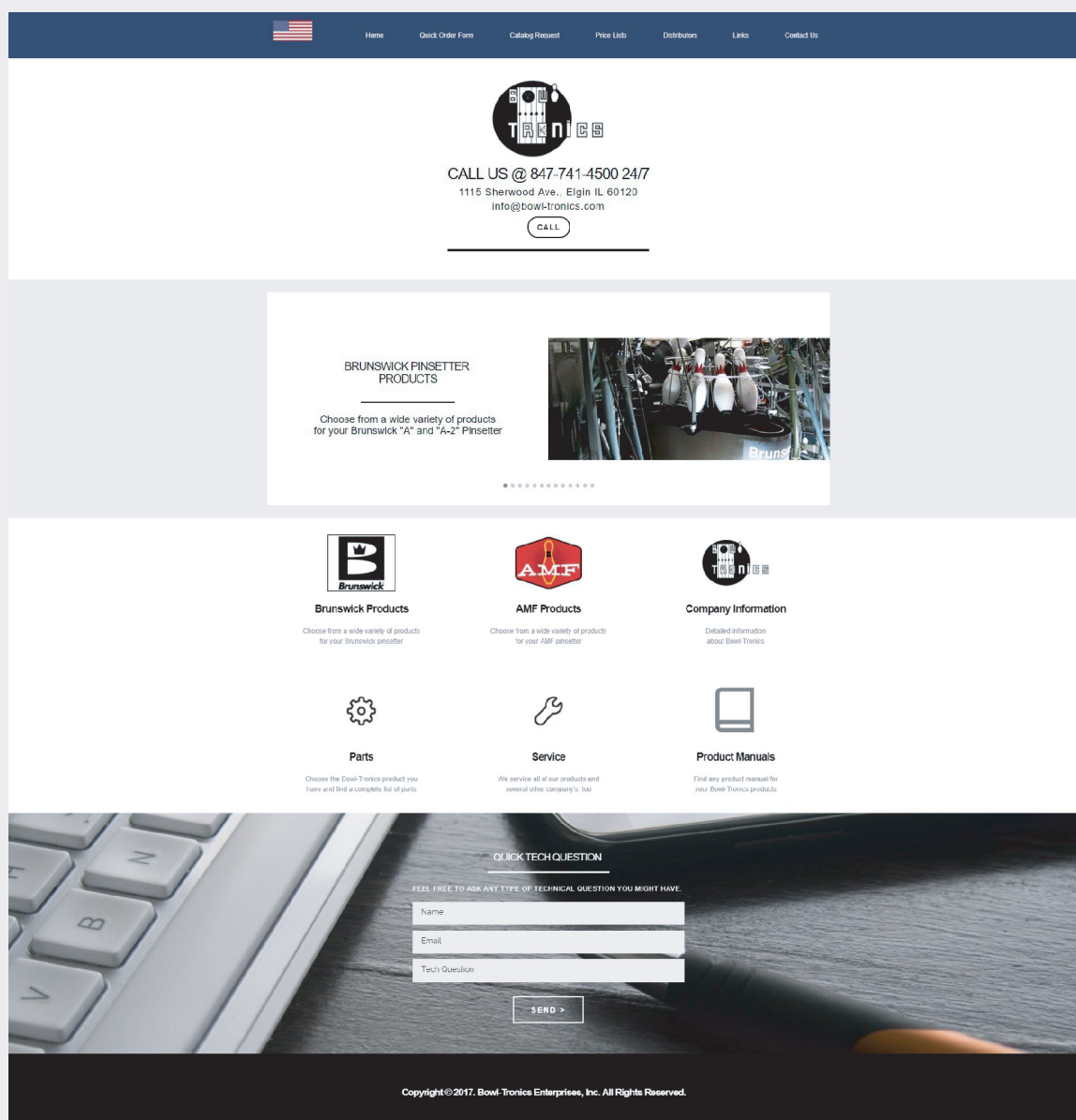


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Brunswick Products

Page 1 (Ball Triggering, Ball Lift and Accelerator Control, Motor Start & Reset Relays)

Page 2 (Scoring Ball Detects, Pinsetter Saver, Time Delay Module, A-2 Chassis)

Page 3 (Diagnostic Display, Selenium Rectifier, Breaker Kits, Quick Rake Drop System, Block Out Switch)

Page 5 (Foul Units)

Page 6 (Company Information)

AMF Products

Page 4 (Ball Triggering, Solid-State Contactors, Solid-State Motor Start Switch, Ball Lift Control Box)

Page 5 (Foul Units)

Page 6 (Company Information)

BRUNSWICK PRODUCTS FOR "A" & "A-2"

EVOLUTION SERIES 1 TRIGGERING

The BTE-S1 key features



- ♦ Diagnostic **LED's** shows power, optic alignment, ball detect, cycle start, block out switch closure, and bypass switch mode
- ♦ Informative PC board layout
- ♦ D-sub type connectors for optics, machine hook up, and auto score interface
- ♦ Unlimited auto score interface
- ♦ Works with any type of pinsetter
- ♦ And much more!!!

*Product ID: **BTE-S1**

*Product ID: **BTE-S1/AUTO** (Auto Score Interface)

CAUTION LABEL (TRIGGERING)

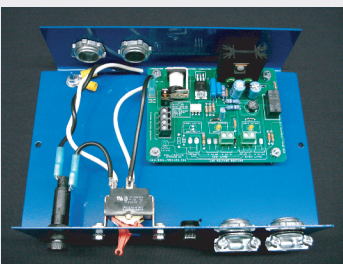


The CLABEL key features

- ♦ Bright neon yellow sticker to attract attention and warn people of danger
- ♦ Help keep your staff and customers safe
- ♦ Place on capping near the pinsetter
- ♦ Sticker size is 4" X 6"

*Part ID: **CLABEL**

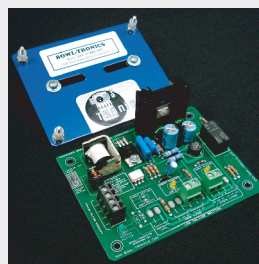
COMMANDER SERIES 1 BALL LIFT MOTOR CONTROL CHASSIS & KIT



The BTC-S1 key features

- ♦ Solid-state switching
- ♦ No more burned up points or sticking relays
- ♦ Easy installation via screw terminal blocks
- ♦ Ball lift motor control chassis can be custom made for any application

*Product ID: **BTC-S1**

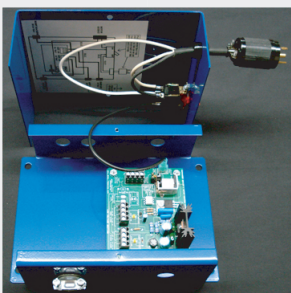


The BTC-S1/BRC/KIT key features

- ♦ Solid-state switching
- ♦ No more burned up points or sticking relays
- ♦ Easy installation via screw terminal blocks
- ♦ Utilizes original chassis to save you money
- ♦ **For Brunswick ball lift control boxes only**

*Product ID: **BTC-S1/BRC/KIT**

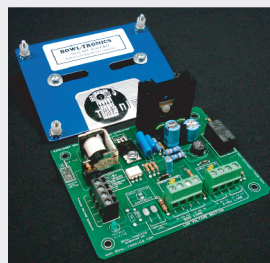
COMMANDER SERIES 1 BALL ACCELERATOR/BOOSTER MOTOR CONTROL CHASSIS & KIT



The BTC-S1/ACC key features

- ♦ Solid-state switching
- ♦ No more burned up points or sticking relays
- ♦ Easy installation via screw terminal blocks
- ♦ Ball accelerator motor control chassis can be custom made for any application

*Product ID: **BTC-S1/ACC**



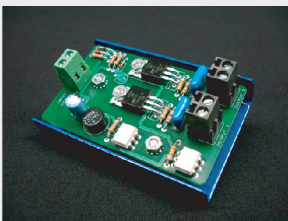
The BTC-S1/ACC/KIT key features

- ♦ Solid-state switching
- ♦ No more burned up points or sticking relays
- ♦ Easy installation via screw terminal blocks
- ♦ Utilizes original chassis to save you money
- ♦ For Brunswick or AMF

*Product ID: **BTC-S1/ACC/KIT**

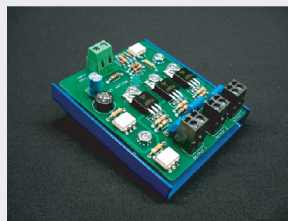
MOTOR START OR RESET RELAYS

The BTSSR-D key features



- ♦ Solid-state switching (double pole)
- ♦ No more burned up points or sticking relays
- ♦ Easy installation (use as a "A" reset relay, "A-2" motor start relay or replace your "A-2" TDM)
- ♦ Outlast any points relay

*Part ID: **BTSSR-D**



The BTSSR-T key features

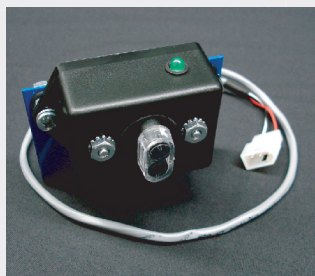
- ♦ Solid-state switching (triple pole)
- ♦ No more burned up points or sticking relays
- ♦ Easy installation (use as a "A" motor start relay)
- ♦ Outlast any points relay

*Part ID: **BTSSR-T**

*To find current prices check online @ www.bowl-tronics.com/price-lists or call 847-741-4500

BRUNSWICK PRODUCTS FOR "A" & "A-2"

BRC INFRARED BALL DETECTS (AS-90, FRAMWORK, VECTOR)

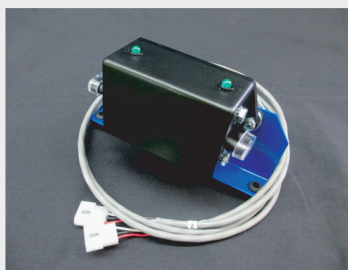


The IR OPTIC key features

- ♦ Diagnostic **LED** shows alignment of optic
- ♦ Easy installation uses OEM connector
- ♦ Shock protection circuitry
- ♦ Durable TTL technology

*Part ID: **IR OPTIC**

*Part ID: **IR OPTIC-V** Vector Scoring 12VDC



The IR OPTIC2 key features

- ♦ Dual optic head
- ♦ Diagnostic **LED's** shows alignment of optics
- ♦ Easy installation uses OEM connector
- ♦ Shock protection circuitry
- ♦ Durable TTL technology

*Part ID: **IR OPTIC2**

*Part ID: **IR OPTIC2-V** Vector Scoring 12VDC

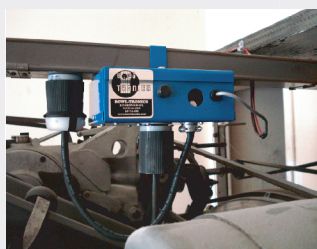
BRC A or A-2 PINSETTER SAVER MOTOR CONTROL

The PS-1 key features

- ♦ Easy installation no wiring in machines electrical box or channel
- ♦ Turns off the motor or motors when the machine is not being used by the bowler
- ♦ Completely safe for motor, soft starts motor to prolong life
- ♦ Adjustable time delay from 3 to 5 minutes
- ♦ Mechanic's push button to start machine motor running
- ♦ Eliminates the unnecessary wear and tear of the pin setter and it will save on electricity that would have been needlessly wasted
- ♦ Optional accelerator/booster and ball lift motor shut down (PS-1-AS)

*Product ID: **PS-1**

*Product ID: **PS-1-AS**

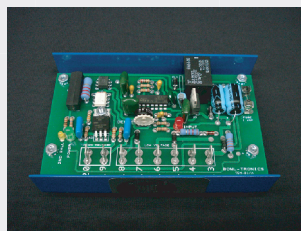


BRC A-2 TIME DELAY MODULE

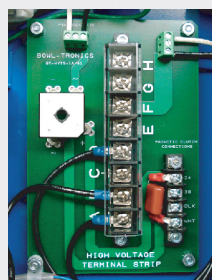
The TDM-X key features

- ♦ Diagnostic **LED's** show TDM-X's power, reset, and 2nd ball functions
- ♦ Informative PC board layout
- ♦ Input and output short protection
- ♦ Solid-state high voltage switching (no more burned up points or sticking relays)
- ♦ Automatic block out function only allows machine to trigger once per cycle

*Product ID: **TDM-X**

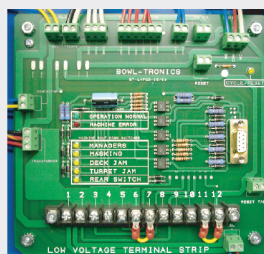


BRUNSWICK A-2 REPLACEMENT CHASSIS



The high voltage section key features

- ♦ Easily accessible high voltage terminal strip with protective cover
- ♦ Informative PC board layout
- ♦ 25 amp. magnetic clutch bridge rectifier
- ♦ New hi-tech time delay module **TDM-X**
- ♦ 40 amp. main power contactor



The low voltage section key features

- ♦ Easily accessible low voltage terminal strip
- ♦ Informative PC board layout
- ♦ New and improved **LED** Diagnostic display for machines power, reset, and switch functions.
- ♦ D-Sub connector for **BTDDM-1**
- ♦ All chassis connections are made with OEM receptacles

*Product ID: **BRC-CH-A2**

*To find current prices check online @ www.bowl-tronics.com/price-lists or call 847-741-4500

BRUNSWICK PRODUCTS FOR "A" & "A-2"

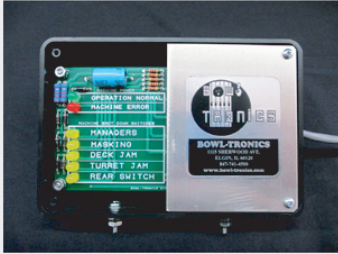
BRC A OR A-2 DIAGNOSTIC DISPLAY MODULE

The BTDDM-1/C key features

- ♦ Lets the mechanic know instantly why the blackout condition occurred so it can be corrected quickly
- ♦ Diagnostic **LED's** shows functions of the deck jam, turret jam, managers/scoring, masking & rear switch
- ♦ Diagnostic **LED's** shows if machine is running in a normal condition or if an error has occurred
- ♦ Eliminates the unnecessary changing of relays, switches and transformers due to unsure blackout conditions

*Product ID: **BTDDM-1/C**

*Product ID: **BTDDM-1/C/BT** Bowl-Tronics Chassis

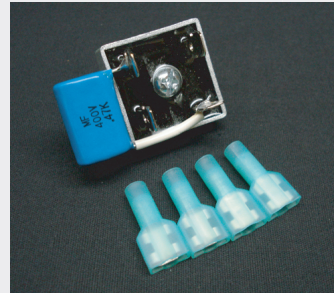


SELENIUM RECTIFIER REPLACEMENT

The BRIDGE W/CAP key features

- ♦ Replaces the old selenium rectifier with a 35 Amp Silicon Bridge Rectifier
- ♦ Simple installation wire connectors and mounting hardware included

*Part ID: **BRIDGE W/CAP**

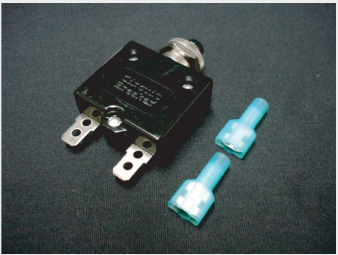


1 AMP HIGH VOLTAGE BREAKER KIT

The BRK-1 key features

- ♦ Resetable breaker to protect your pinsetters high voltage input to your transformer
- ♦ Simple installation crimp style wire connectors and panel mount breaker

*Part ID: **BRK-1**



3 AMP LOW VOLTAGE BREAKER KIT

The BRK-3 key features

- ♦ Replaces the old screw type 3.2 amp low voltage fuse
- ♦ Resetable breaker no more changing fuses
- ♦ Simple installation wire connectors and mounting plate included

*Part ID: **BRK-3**

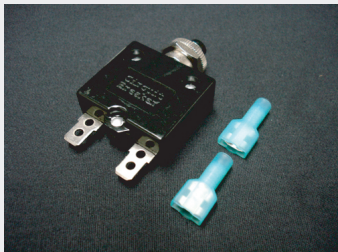


15 AMP MOTOR BREAKER KIT

The BRK-15 key features

- ♦ Resetable breaker to protect your pinsetter motor when your motor doesn't have one
- ♦ Simple installation crimp style wire connectors and panel mount breaker

*Part ID: **BRK-15**

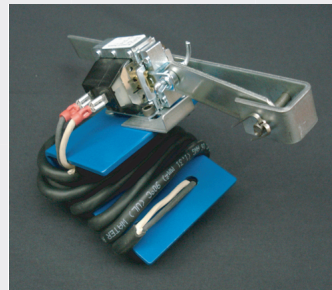


RAKE TRIP SOLENOID ASSEMBLY

The RTSA key features

- ♦ Requires some type of electronic triggering
- ♦ Allows you to utilize the quick rake drop feature on your A-2 Pinsetter
- ♦ RTSA mounts to the OEM rake lift shaft (Shotgun)
- ♦ Utilizes 24VAC solenoid no special power supply needed just use the 24VAC from the pinsetter

*Part ID: **RTSA**

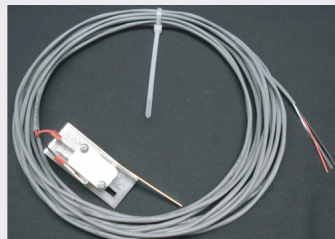


BLOCK OUT SWITCH ASSEMBLY

The BOS key features

- ♦ Block out switch assembly for Brunswick A or A-2 pinsetter
- ♦ Adds block out feature to Bowl-Tronics ball triggering so rake does not interfere with triggering
- ♦ Simple installation mounts to the top 4 to 1 bolt of the 4 to 1 shaft and switch lever goes under clutch lever

*Part ID: **BOS**



*To find current prices check online @ www.bowl-tronics.com/price-lists or call 847-741-4500

AMF PRODUCTS FOR "82-30, 70 ,90XL"

EVOLUTION SERIES 1 TRIGGERING

The BTE-S1 key features



- ♦ Diagnostic **LED's** shows power, optic alignment, ball detect, cycle start, block out switch closure, and bypass switch mode
- ♦ Informative PC board layout
- ♦ D-sub type connectors for optics, machine hook up, and auto score interface
- ♦ Unlimited auto score interface
- ♦ Works with any type of pinsetter
- ♦ And much more!!!

*Product ID: **BTE-S1**

*Product ID: **BTE-S1/AUTO** (Auto Score Interface)

CAUTION LABEL (TRIGGERING)



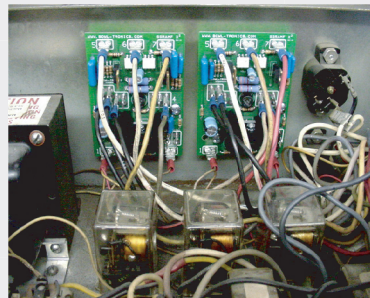
CLABEL key features

- ♦ Bright neon yellow sticker to attract attention and warn people of danger
- ♦ Help keep your staff and customers safe
- ♦ Place on capping near the pinsetter
- ♦ Sticker size is 4" X 6"

*Part ID: **CLABEL**

AMF SOLID-STATE SWEEP & TABLE CONTACTORS

The SSR-AMFx key features



(View of SSR-AMFx in a AMF 82-70 MP chassis)

- ♦ Diagnostic **LED** shows when power is applied to the SSR-AMFx
- ♦ Informative PC board layout, makes installation easier
- ♦ Improved solid-state switching circuitry
- ♦ (Optional run switch to manually run the motor)

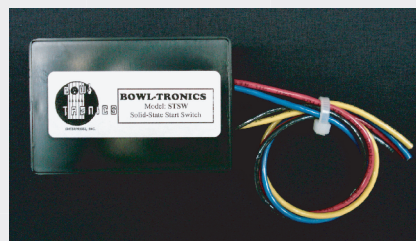
*Part ID: **SSR-AMFx30**

*Part ID: **SSR-AMFx30W/S** (W/run switch)

*Part ID: **SSR-AMFx70**

*Part ID: **SSR-AMFx70W/S** (W/run switch)

AMF SOLID STATE MOTOR START SWITCH



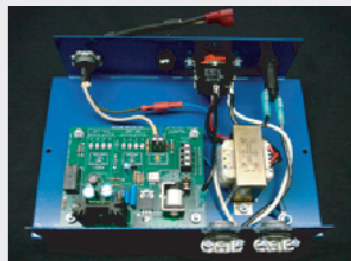
The STSW key features

- ♦ Solid-state switching
- ♦ No more burned up or sticking centrifugal switch
- ♦ Easy installation (can be used on all AMF motors combo and back end)
- ♦ Outlast any centrifugal switch

*Part ID: **STSW**

COMMANDER SERIES 1 BALL LIFT MOTOR CONTROL CHASSIS

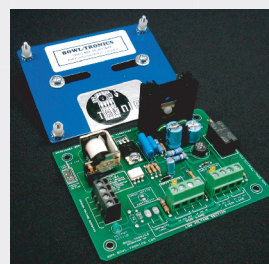
The BTC-S1 key features



- ♦ Solid-state switching
- ♦ No more burned up points or sticking relays
- ♦ Easy installation via screw terminal blocks
- ♦ Ball lift motor control chassis can be custom made for any application

*Product ID: **BTC-S1/AMF**

COMMANDER SERIES 1 BALL ACCELERATOR BOOSTER MOTOR CONTROL KIT



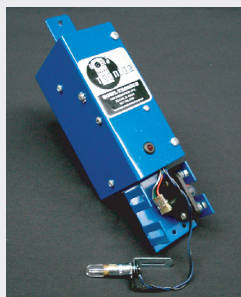
The BTC-S1/ACC/KIT key features

- ♦ Solid-state switching
- ♦ No more burned up points or sticking relays
- ♦ Easy installation via screw terminal blocks
- ♦ Utilizes original chassis to save you money
- ♦ For Brunswick or AMF

*Product ID: **BTC-S1/ACC/KIT**

*To find current prices check online @ www.bowl-tronics.com/price-lists or call 847-741-4500

BRUNSWICK REPLACEMENT FOUL UNITS (SENTINEL SERIES 1)

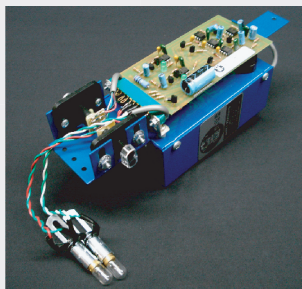


The M-1 key features

- ◆ Diagnostic **LED** shows alignment of optic
- ◆ Shock protection circuitry
- ◆ Durable TTL technology
- ◆ M-1 designed to fit under single lane small division covers
- ◆ Optional power pack if you don't have high voltage up front at foul line (W/PK)

*Product ID: **M-1**

*Product ID: **M-1 W/PK**



The M-2-B key features

- ◆ Diagnostic **LED's** shows alignment of optics
- ◆ Shock protection circuitry
- ◆ Durable TTL technology
- ◆ M-2-B designed to fit under small division covers
- ◆ Optional power pack if you don't have high voltage up front at foul line (W/PK)

*Product ID: **M-2-B**

*Product ID: **M-2-B W/PK**

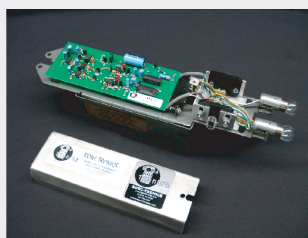


The BTS-S1/BRC key features

- ◆ Diagnostic **LED's** shows power, optic alignment, foul detect, fuse error and bypass switch mode
- ◆ Informative PC board layout
- ◆ Unlimited auto score interface
- ◆ Optional power pack if you don't have high voltage up front at foul line (W/PK)
- ◆ And much more!!!

*Product ID: **BTS-S1/BRC**

*Product ID: **BTS-S1/BRC W/PK**

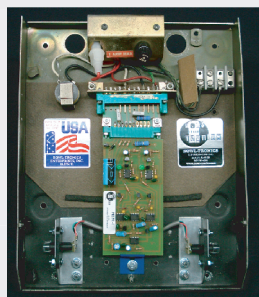


The AFC-1 key features

- ◆ Converts Brunswick Astro Tele Foul to **infrared**
- ◆ Diagnostic **LED's** shows alignment of optics
- ◆ Easy installation utilizes the same exact foul unit
- ◆ Shock protection circuitry
- ◆ Durable TTL technology

*Product ID: **AFC-1**

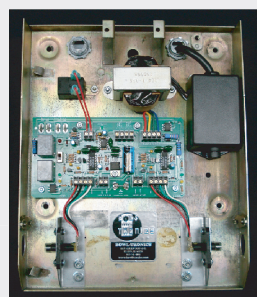
AMF REPLACEMENT FOUL UNITS (SENTINEL SERIES 1)



The RK-82-120 key features

- ◆ Converts AMF's RK-82-120 foul unit to **infrared**
- ◆ Diagnostic **LED's** shows alignment of optics
- ◆ Easy installation uses OEM connector with adaptor card
- ◆ Shock protection circuitry
- ◆ Durable TTL technology

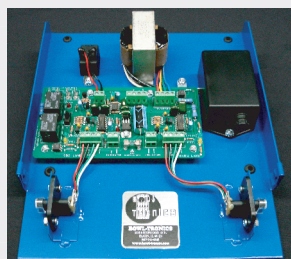
*Product ID: **RK-82-120**



The RK-1000 key features

- ◆ Converts any large division AMF foul unit to a Sentinel Series 1 **Infrared** Foul Unit
- ◆ Diagnostic **LED's** shows power, optic alignment, foul detect, fuse error and bypass switch mode
- ◆ Informative PC board layout
- ◆ Unlimited auto score interface
- ◆ And much more!!!

*Product ID: **RK-1000**



The BTS-S1/AMF key features

- ◆ Diagnostic **LED's** shows power, optic alignment, foul detect, fuse error and bypass switch mode
- ◆ Informative PC board layout
- ◆ Unlimited auto score interface
- ◆ Optional power pack if you don't have high voltage up front at foul line (W/PK)
- ◆ And much more!!!

*Product ID: **BTS-S1/AMF**

*Product ID: **BTS-S1/AMF W/PK**

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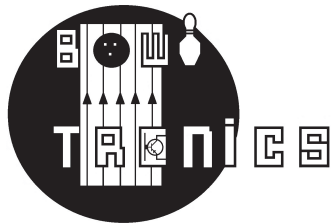
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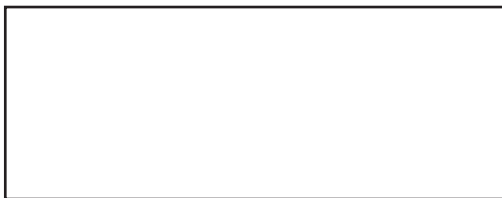
All products come with a 1-year warranty. Serviced items come with a 30-day warranty. Misuse or tampering of products voids warranty. **Note: all prices are subject to change without notice.**



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EVOLUTION SERIES 1 TRIGGERING

The BTE-S1 key features



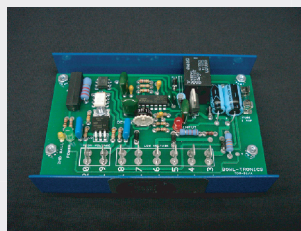
- ♦ Diagnostic **LED's** shows power, optic alignment, ball detect, cycle start, block out switch closure, and bypass switch mode
- ♦ Informative PC board layout
- ♦ D-sub type connectors for optics, machine hook up, and auto score interface
- ♦ Unlimited auto score interface
- ♦ Works with any type of pinsetter
- ♦ And much more!!!

*Product ID: **BTE-S1**

*Product ID: **BTE-S1/AUTO** (Auto Score Interface)

BRC A-2 TIME DELAY MODULE

The TDM-X key features

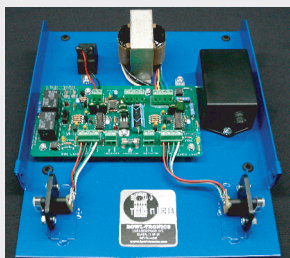


- ♦ Diagnostic **LED's** show TDM-X's power, reset, and 2nd ball functions
- ♦ Informative PC board layout
- ♦ Input and output short protection
- ♦ Solid-state high voltage switching (no more burned up points or sticking relays)
- ♦ Automatic block out function only allows machine to trigger once per cycle

*Product ID: **TDM-X**

AMF FOUL UNIT

The BTS-S1/AMF key features



- ♦ Diagnostic **LED's** shows power, optic alignment, foul detect, fuse error and bypass switch mode
- ♦ Informative PC board layout
- ♦ Unlimited auto score interface
- ♦ Optional power pack if you don't have high voltage up front at foul line (W/PK)
- ♦ And much more!!!

*Product ID: **BTS-S1/AMF**

*Product ID: **BTS-S1/AMF W/PK**

AMF SOLID STATE MOTOR START SWITCH

The STSW key features



- ♦ Solid-state switching
- ♦ No more burned up or sticking centrifugal switch
- ♦ Easy installation (can be used on all AMF motors combo and back end)
- ♦ Outlast any centrifugal switch

*Part ID: **STSW**

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