

Big Buck Hunter Pro v1.60

MANUAL

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Optional Kits available through your Distributor:

Flipper Rebuild Kit (Left) 500-6307-10

Flipper Base Plate Kit (Left) 515-6617-01

Kit includes: *Flipper Base Plate (Left) pre-threaded with securing hardware; see the Flipper Drawing for view.*

Flipper Rebuild Kit (Right) 500-6307-00

Flipper Base Plate Kit (Right) 515-6617-00

Kit includes: *Flipper Base Plate (Left) pre-threaded with securing hardware; see the Flipper Drawing for view.*

Pinball Location Maintenance Standard Kit (for Big Buck Pinball) 502-6002-B2

Standard Kit includes : *8 oz. Novus Wax #2 Fine (Red) (**675-0003-01**), Cloth, Rubber Rings (used above playfield), Bulbs (Bulb quantities vary and is limited to 25 per type), Fuses (1/per type) and 4 Pinballs.* ***Note:*** *Quanties, sizes and contents subject to change without notice.*

Pinball Location Maintenance Deluxe Kit (for Big Buck Pinball) 502-6003-B2

Deluxe Kit includes : *Pinball Location Maintenance Standard Kit as described above plus a quantity of Flipper Rebuild Kits.* ***Note:*** *Quantity varies which equals the same quantity of flippers used in this game.*

▲ THIS GAME KIT INCLUDES (2) FLIPPER REBUILD KITS ▲

Plastics*Kit (for Big Buck Pinball) 803-5000-B2

Plastics Kit includes: *Plastic Sets (830-6103-XX)*

Decals*Kit (for Big Buck Pinball) 802-5000-B2

Decals Kit includes: *Decal Set (820-6558-XX)*

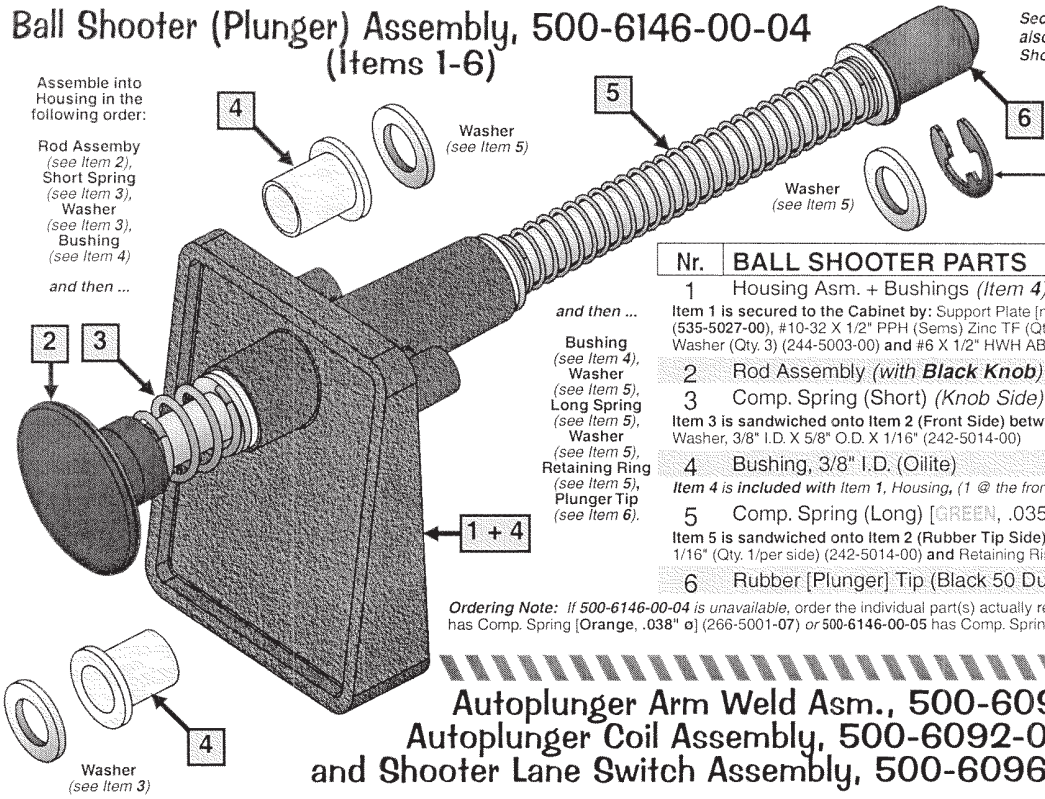
Mylar*Kit (for Big Buck Pinball) 802-5001-B2

Mylar Kit includes: *Full Mylar (820-5999-B2)*

****Attention:*** *No individual Plastic or Decal can be ordered separately, unless noted otherwise. Plastics & Decals are subject to change without notice during and / or after production. Key Fobs subject to availability and may or may not be included in the plastic set. All designs, shapes & pieces used subject to change without notice. Kit contents subject to change. Service Bulletin(s) will announce any critical changes, if warranted. The last 2-digits shown on plastics or decals are for reference only.*

Ball Shooter (Plunger) Assembly, 500-6146-00-04 (Items 1-6)

Securing Hardware for Items 3 & 5 are also shown separated from the Ball Shooter (Plunger) Assembly for clarity.



Nr.	BALL SHOOTER PARTS	QTY.	SPI PART Nr.
1	Housing Asm. + Bushings *(Item 4)*	1	535-5067-02
	Item 1 is secured to the Cabinet by: Support Plate [not included with Item 1 *or* Assembly] (**535-5027-00**), #10-32 X 1/2" PPH (Sems) Zinc TF (Qty. 3) (237-6033-00), #10 Split Lock Washer (Qty. 3) (244-5003-00) **and** #6 X 1/2" HWH AB (Zinc) Red (Qty. 2) (234-5001-02)		
2	Rod Assembly *(with **Black Knob**)*	1	515-6557-00
3	Comp. Spring (Short) *(Knob Side)*	1	266-5010-00
	Item 3 is sandwiched onto Item 2 (Front Side) between the knob and by: Washer, 3/8" I.D. X 5/8" O.D. X 1/16" (242-5014-00)		
4	Bushing, 3/8" I.D. (Oilite)	2	280-5010-00
	Item 4 is included with Item 1, Housing, (1 @ the front; 1 @ the back) as shown.		
5	Comp. Spring (Long) [GREEN, .035" ø]	1	266-5001-**04**
	Item 5 is sandwiched onto Item 2 (Rubber Tip Side) by: Washer, 3/8" I.D. X 5/8" O.D. X 1/16" (Qty. 1/per side) (242-5014-00) **and** Retaining Ring, 3/8" ø Shaft (270-5012-00)		
6	Rubber [Plunger] Tip (Black 50 Duro)	1	545-5276-00

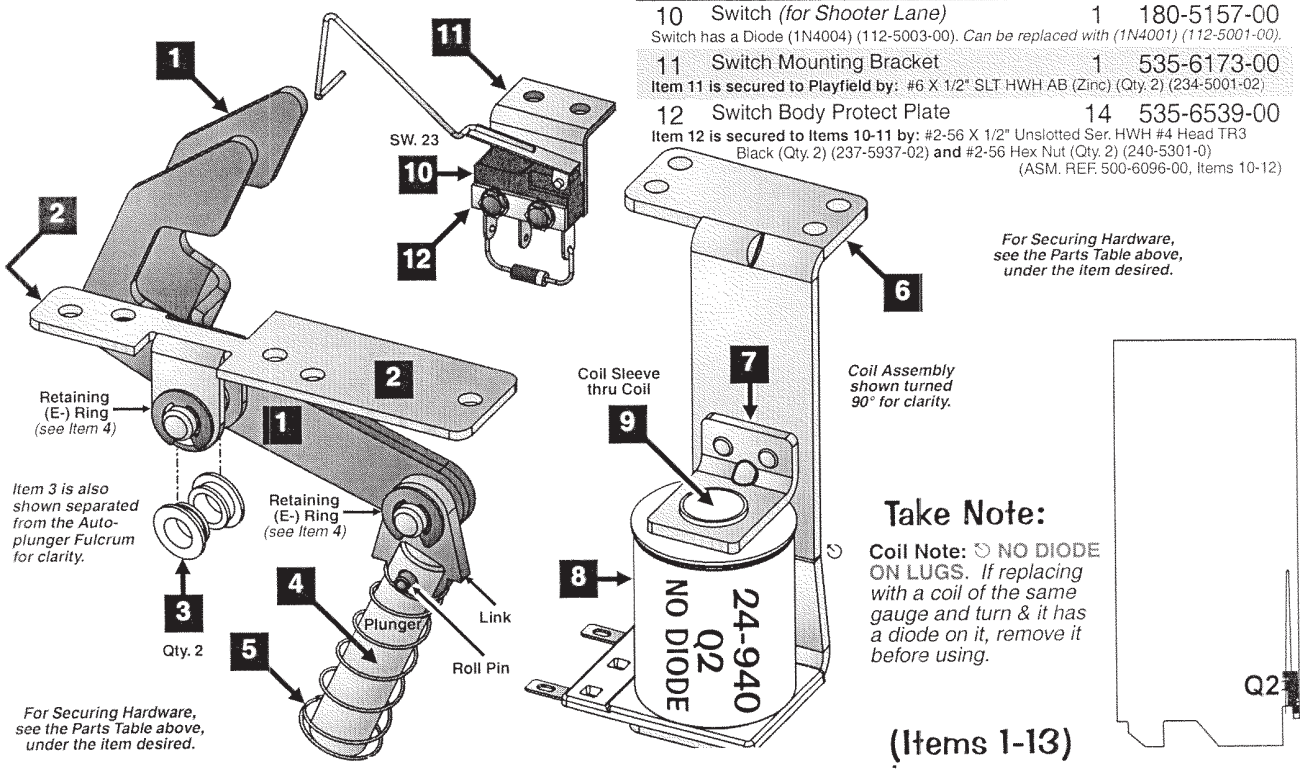
Ordering Note: *If **500-6146-00-04** is unavailable,* order the individual part(s) actually required. ... Identical to **500-6146-00-07** has Comp. Spring [**Orange, .038" ø**] (266-5001-**07**) *or* **500-6146-00-05** has Comp. Spring [**Blue, .031" ø**] (266-5001-**05**).

Autoplunger Arm Weld Asm., 500-6091-00 (Items 1-5), Autoplunger Coil Assembly, 500-6092-02-ND (Items 6-9) and Shooter Lane Switch Assembly, 500-6096-00 (Items 10-12)

Nr.	AUTOPL. ARM WELD PARTS	QTY.	SPI PART Nr.
1	Arm Weld Assembly	1	515-6526-00
	Item 1 is secured to Item 2 by: Retaining Ring, 1/4" ø Shaft (Qty. 1) (270-5002-00)		
2	Autoplunger Fulcrum	1	535-7697-00
3	Nyliner, 1/4" (Thomson #4l1-FF)	2	545-5423-00
4	Plunger & Link Assembly	0	511-5183-00
	Item 4 is secured to **Item 1 by:** Retaining Ring, 1/4" ø Shaft (Qty. 1) (270-5002-00) *For Individual Items use :* Plunger 1.81" Lg. (**530-5025-05**), Plunger Link (**545-5293-00**) **and** Roll Pin 1/8" ø x 5/8" Lg. (**251-5008-00**)		
5	Compression (Return) Spring	1	266-5020-00
	(ASM. REF. 500-6091-00, Items 1-5)		

Nr.	AUTOPLNGR. COIL PARTS	QTY.	SPI PART Nr.
6	Autoplunger Coil Bracket Assembly	1	515-6527-00
	Items 1 & 6 are secured below the P/F by: #8 X 1/2" SHWH AB (Zc.) (Qty. 9) (234-5101-00)		
7	Coil Retainer Bracket	1	535-5203-03
	Item 7 is secured to Item 6 by: #8-32 X 1/4" PPH MS (Sems) Zinc (Qty. 2) (232-5300-00)		
8	Coil, 24-940 [NO DIODE]	1	090-5036-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ↻ COIL NOTE BELOW FOR DETAILS.		
9	Coil Sleeve	1	545-5031-00
	(ASM. REF. 500-6092-02-ND, Items 6-9)		

Nr.	SWITCH PARTS	QTY.	SPI PART Nr.
10	Switch *(for Shooter Lane)*	1	180-5157-00
	Switch has a Diode (1N4004) (112-5003-00). *Can be replaced with (1N4001) (112-5001-00).*		
11	Switch Mounting Bracket	1	535-6173-00
	Item 11 is secured to Playfield by: #6 X 1/2" SLT HWH AB (Zinc) (Qty. 2) (234-5001-02)		
12	Switch Body Protect Plate	14	535-6539-00
	Item 12 is secured to Items 10-11 by: #2-56 X 1/2" Unslotted Ser. HWH #4 Head TR3 Black (Qty. 2) (237-5937-02) **and** #2-56 Hex Nut (Qty. 2) (240-5301-0)		
	(ASM. REF. 500-6096-00, Items 10-12)		



Take Note:

Coil Note: ↻ NO DIODE ON LUGS. *If replacing with a coil of the same gauge and turn & it has a diode on it, remove it before using.*

(Items 1-13)

4-Ball Trough Assembly, 500-6318-24-ND (Items 1-13)
and Associated Parts: See Parts Table Below.

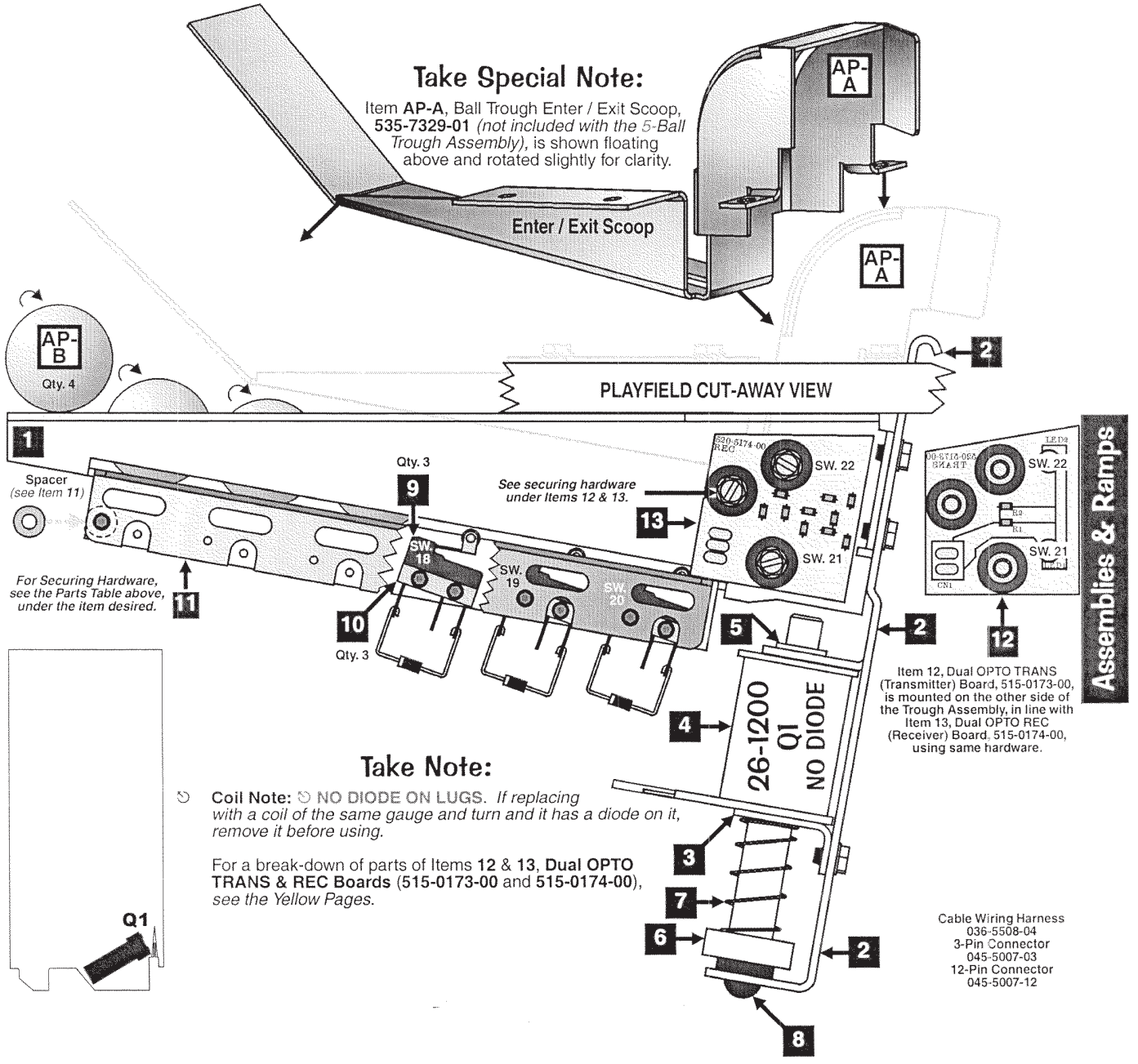
Ordering Note: Identical to 500-6318-14 with exceptions, see note below Item 13 (Parts Table).

Nr.	4-BALL TROUGH PARTS	QTY.	SPI PART Nr.
1	Ball Trough Outhole Mounting Bracket	1	515-6580-01
	Item 1 is secured below the playfield by: #8 X 1/2" SHWH AB (Zc.) (Qty. 4) (234-5101-00)		
2	Coil Mounting Bracket	1	535-7330-01
	Item 2 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Sr.) Zinc (Qty. 4) (237-5975-00)		
3	Coil Retaining Bracket	1	535-5203-03
	Item 3 is secured to Item 2 by: #8-32 X 1/4" SHWH (Serr) Zinc (Qty. 2) (237-5975-04)		
4	Coil, 26-1200 [NO DIODE]	1	090-5044-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ↻ COIL NOTE BELOW FOR DETAILS.		
5	Coil Sleeve (Short) (Formost #10-7077)	1	545-5076-01
6	Steel & Nylon Plunger Asm. (3.57")	1	515-7309-01
7	Compression (Return) Spring	1	266-5020-00
8	Rubber Bumper (Grommet)	1	545-5105-00
9	Micro Switch (Roller Actuator, Lite-Force)	3	180-5119-02
	Item 9 requires: Heat Shrink Tubing 1/8" ø PUI-24 (Qty. 1"/per) (605-5006-00)		
	Switch has a Diode (1N4004) (112-5003-00). *Can be replaced with (1N4001) (112-5001-00).*		
10	Switch Body Protect Plate	3	535-6539-00
11	Trough Ball Guide Plate	1	535-7801-00
	Item 11 is secured to Item 1 by: 1/4" X 5/16" X .144" I.D. Spacer Tap. (Qty. 1) (254-5014-03) and #2-56 X 1/2" HWH (Ser) UNS #4HD TR3 BO (Qty. 4) (237-5937-02)		
12	Dual OPTO TRANS Board Assembly	1	515-0173-00
13	Dual OPTO REC Board Assembly	1	515-0174-00
	Items 12 & 13 are secured by: #6-32 X 5/8" HWH Swg (Ser) Zc (Qty. 3/per) (237-5976-04)		
	For Individual Items use : Dual OPTO Transmitter Board (Qty. 1) (**520-5173-00**), Dual OPTO Receiver Board (Qty. 1) (**520-5174-00**), OPTO PCB Tube Spacer (Brass) (Qty. 3/per) (**530-5308-02**) and OPTO PCB Rubber Grommet (Qty. 3/per) (**545-5518-00**)		

Ordering Note: *If **500-6318-24-ND** is unavailable, order the individual part(s) actually required. This assembly is identical to **500-6318-14-ND**, **-15** or **-25** except for the quantity of **Items 9 & 10** (Qty. 4/per on 5-Ball Trough) **and Item 11**, required when a Magnet Mech. is used in the game. **-ND** means **no diode** on **Item 4**, Coil, 26-1200.*

ASSOCIATED PARTS ARE NOT INCLUDED WITH THE ABOVE ASSEMBLY.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	Ball Trough Enter / Exit Scoop	1	535-7329-01
	Item AP-A secured to the playfield by: #8 X 1/2" SHWH AB (Zinc) (Qty. 4) (234-5101-00).		
AP-B	Steel Balls (1-1/16" ø)	4	260-5000-00

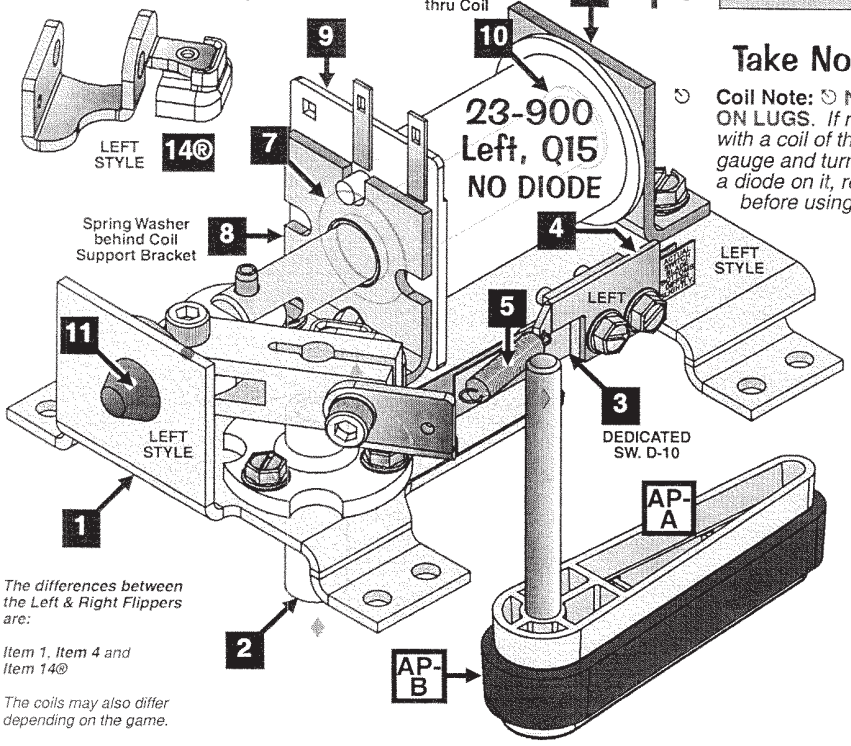


Flipper (Left) Assembly, 500-6543-15-ND (Items 1-15)

and Associated Parts: Yellow Flipper Bat & Shaft Asm., 515-5133-06-06 (Items AP-A / AP-B)

Nr.	FLIPPER (LEFT) PARTS	QTY.	SPI PART Nr.
1	Flipper Base Plate (LEFT)	1	*See FRP1*
	Item 1 is secured below by: #8 X 1/2" SHWH AB (Zinc) (Qty. 8) (234-5101-00) *Ordering Note : Individual Part (535-7275-01) is not prethreaded, see Item FRP1.*		
2	Flipper Bat Bushing (White Plastic) .25" ø I.D.	1	545-5070-00
	Item 2 is secured to Item 1 by: #6-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 3) (237-5976-02)		
3	Power (EOS / End-of-Stroke) Switch	1	180-5149-00
	Item 3 is secured to Item 1 by: #6-32 X 5/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5976-04)		
4	Sw. Plate/Spring Return Brkt. (LEFT)	1	535-7354-01
5	Flipper Return Spring	1	265-5035-00
6	Coil Stop Bracket Sub-Assembly	1	515-6308-01
	Item 6 is secured to Item 1 by: #10-32 X 3/8" SHWH Swage (Serr) Zinc (Qty. 2) (237-5985-00) and #10 Split Lock Washer (Qty. 2) (244-5003-00)		
7	Spring Washer (17/32" ID X 3/4" X 1")	1	269-5002-00
8	Coil Support Bracket	1	535-7356-00
	Item 8 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5975-00)		
9	Coil, 23-900 [NO DIODE] BLUE	1	090-5020-30
	COIL DOES NOT REQUIRE A DIODE. SEE ⟲ COIL NOTE BELOW FOR DETAILS.		
10	Coil Sleeve	1	545-5388-00
11	Deflector Pad (Bumper)	1	545-5428-00
12	Flipper Plunger & Link Sub-Assy.	1	515-6304-03
	For Individual Items use : Flipper Plunger (530-5349-01) and Plunger "Flipper" Link (545-5611-01) and is secured to the Plunger by: Bushing, .16" ø ID X .281" ø OD X .187" (Qty. 1) (530-5532-00) and Spiral Pin ø 5/32" X 3/4" Lg. (Qty. 1) (251-5015-02)		
13	Crank Bar (Pawl)	1	530-5070-02
	Item 13 requires: Bushing, .192" ø ID X .312" ø OD X .195" (Qty. 1) (530-5139-00)		
14®	Switch Actuator (LEFT) Sub-Assy.	1	515-7257-01
	For Individual Items use : Actuator & Spring Bracket (LEFT) (535-9038-01) and ® Switch Actuator (White Plastic) (545-5612-00) and is secured to the Bracket by: Rivet, 1/8" ø X 1/4" Lg. (Qty. 1) (249-5003-00)		
15	Set Screw: #10-32 X 3/4" Socket Hd.	2	237-6144-00
	Item 15 requires: #10-32 Nylon Stop Nut (Qty. 1) *Flipper Link Side Only* (240-5203-00) and #10 Split Lock Washer (Qty. 1) *Switch Actuator Side Only* (244-5003-00) *Tool required for Item 15:* 5/32" *or* 4mm Allen Wrench		

Item 14® is also shown separated from Item 13, Crank Bar, for clarity.



The differences between the Left & Right Flippers are:

Item 1, Item 4 and Item 14®

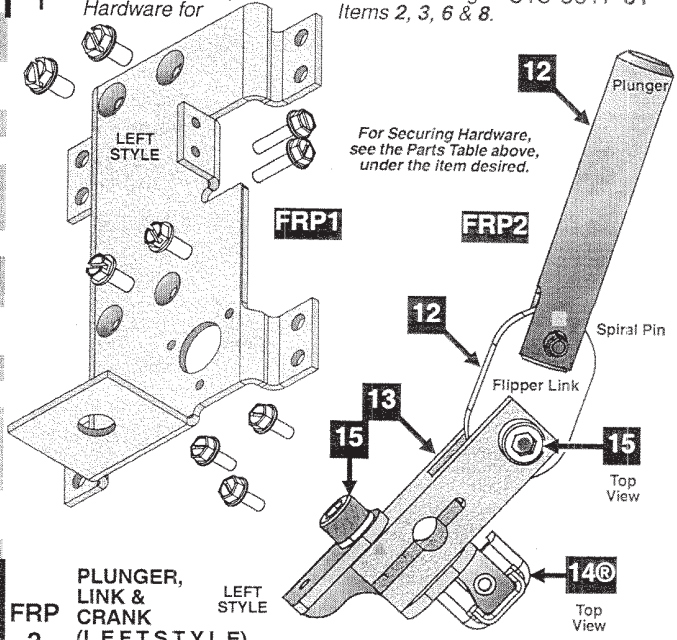
The coils may also differ depending on the game.

ASSOCIATED PARTS ARE NOT INCLUDED WITH THE ABOVE ASSEMBLY.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	YELLOW Flipper Bat & Shaft Asm. (Non-Knurled End) *without Rubber Ring*	1	515-5133-06-06
AP-B	Large Flipper RED Rubber Ring	1	545-5277-22

Flipper Rebuild Parts for Easier Installation, Save $:

FRP 1 FLIPPER BASE PLATE KIT (LEFT) : *Includes Item 1 pre-threaded >+< Securing Hardware for Items 2, 3, 6 & 8.* 515-6617-01

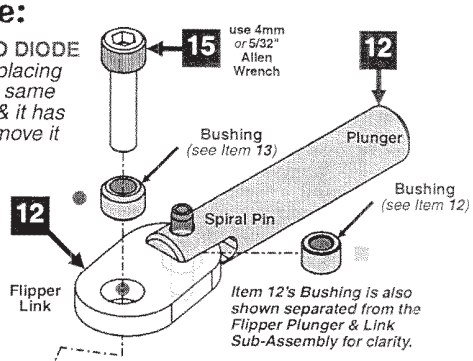


FRP 2 PLUNGER, LINK & CRANK (LEFT STYLE) ASSEMBLY : *Includes Items 12, 13, 14 & 15 (comes assembled).* 515-7203-01

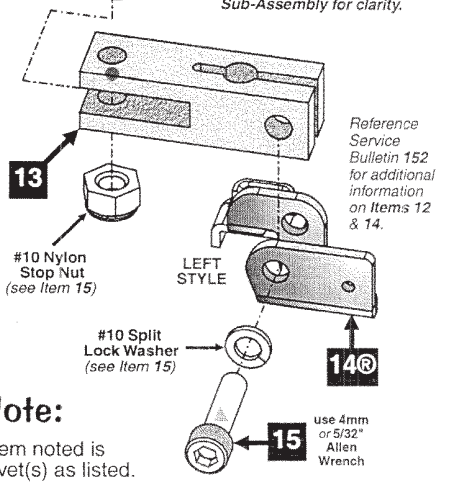
FRP 3 FLIPPER (LEFT) REBUILD KIT : *Includes Items 6, 10 AND above FRP2* 500-6307-10

Take Note:

⟲ **Coil Note:** ⟲ NO DIODE ON LUGS. *If replacing with a coil of the same gauge and turn & it has a diode on it, remove it before using.*



Item 12's Bushing is also shown separated from the Flipper Plunger & Link Sub-Assembly for clarity.



Reference Service Bulletin 152 for additional information on Items 12 & 14.

Take Note:

® "R" indicates Item noted is secured with rivet(s) as listed.

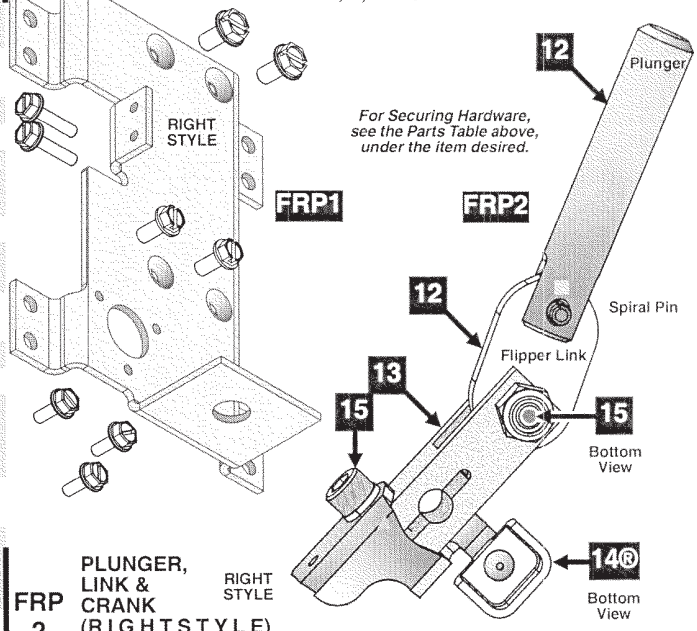
Assemblies & Ramps

Flipper (Right) Assembly, 500-6543-05-ND (Items 1-15)
and Associated Parts: Yellow Flipper Bat & Shaft Asm., 515-5133-06-06 (Items AP-A / AP-B)

Nr.	FLIPPER (RIGHT) PARTS	QTY.	SPI PART Nr.
1	Flipper Base Plate (**RIGHT**)	1	*See **FRP1***
	Item 1 is secured below by: #8 X 1/2" SHWH AB (Zinc) (Qty. 8) (234-5101-00)		
	*Ordering Note : Individual Part (535-7275-00) is not prethreaded, see Item **FRP1**.*		
2	Flipper Bat Bushing (White Plastic) .25" ø I.D.	1	545-5070-00
	Item 2 is secured to Item 1 by: #6-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 3) (237-5976-02)		
3	Power (EOS / End-of-Stroke) Switch	1	180-5149-00
	Item 3 is secured to Item 1 by: #6-32 X 5/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5976-04)		
4	Sw. Plate/Spring Return Brkt. (**RIGHT**)	1	535-7354-**00**
5	Flipper Return Spring	1	265-5035-00
6	Coil Stop Bracket Sub-Assembly	1	515-6308-01
	Item 6 is secured to Item 1 by: #10-32 X 3/8" SHWH Swage (Serr) Zinc (Qty. 2) (237-5985-00) and #10 Split Lock Washer (Qty. 2) (244-5003-00)		
7	Spring Washer (17/32" ID X 3/4" X 1")	1	269-5002-00
8	Coil Support Bracket	1	535-7356-00
	Item 8 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5975-00)		
9	Coil, 23-900 [NO DIODE] BLUE	1	090-5020-30
	COIL DOES NOT REQUIRE A DIODE. SEE ↻ COIL NOTE PREV. PAGE FOR DETAILS.		
10	Coil Sleeve	1	545-5388-00
11	Deflector Pad (Bumper)	1	545-5428-00
12	Flipper Plunger & Link Sub-Assy.	1	515-6304-03
	For Individual Items use : Flipper Plunger (**530-5349-01**) and Plunger "Flipper" Link (**545-5611-01**) and is secured to the Plunger by: Bushing, .16" ø ID X .281" ø OD X .187" (Qty. 1) (530-5532-00) and Spiral Pin ø 5/32" X 3/4" Lg. (Qty. 1) (251-5015-02)		
13	Crank Bar (Pawl)	1	530-5070-02
	Item 13 requires: Bushing, .192" ø ID X .312" ø OD X .195" (Qty. 1) (530-5139-00)		
14®	Switch Actuator (**RIGHT**) Sub-Assy.	1	515-7257-**00**
	For Individual Items use : Actuator & Spring Bracket (**LEFT**) (**535-9038-01**) and ® Switch Actuator (White Plastic) (**545-5612-00**) and is secured to the Bracket by: Rivet, 1/8" ø X 1/4" Lg. (Qty. 1) (249-5003-00)		
15	Set Screw: #10-32 X 3/4" Socket Hd.	2	237-6144-00
	Item 15 requires: #10-32 Nylon Stop Nut (Qty. 1) ***Flipper Link Side Only*** (240-5203-00) and #10 Split Lock Washer (Qty. 1) ***Switch Actuator Side Only*** (244-5003-00)		
	Tool required for Item 15: 5/32" *or* 4mm Allen Wrench		

Flipper Rebuild Parts for Easier Installation, Save $:

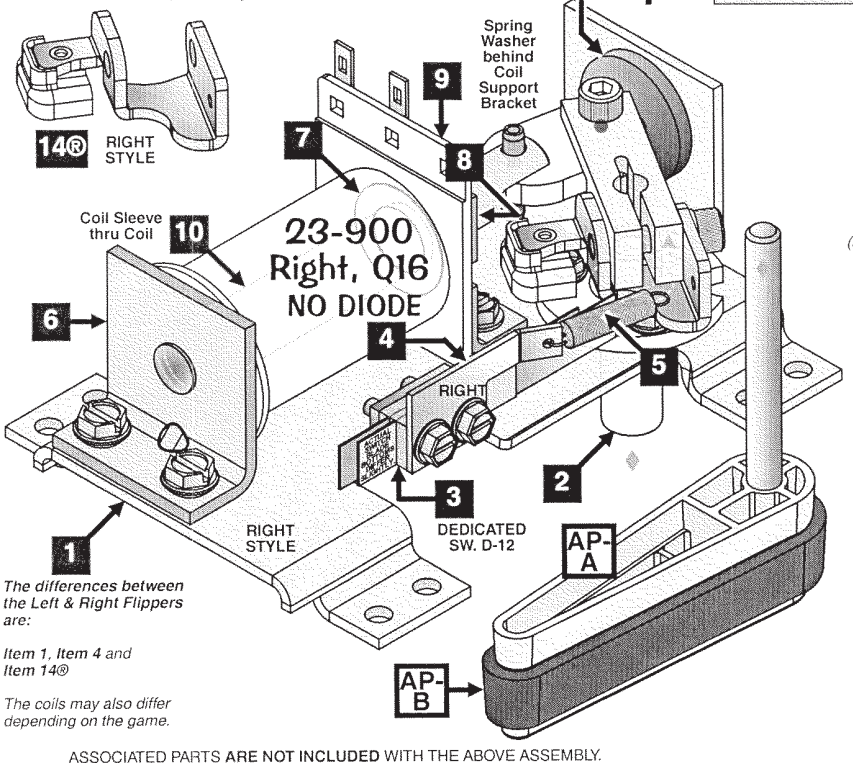
FRP 1 FLIPPER BASE PLATE KIT (R I G H T) : *Includes Item **1** pre-threaded >+< Securing Hardware for Items **2, 3, 6 & 8.*** 515-6617-**00**



FRP 2 PLUNGER, LINK & CRANK (R I G H T S T Y L E) ASSEMBLY : *Includes Items **12, 13, 14 & 15** (comes assembled).* RIGHT STYLE 515-7203-**00**

FRP 3 FLIPPER (RIGHT) R E B U I L D K I T : *Includes Items **6, 10** AND above **FRP2*** 500-6307-**00**

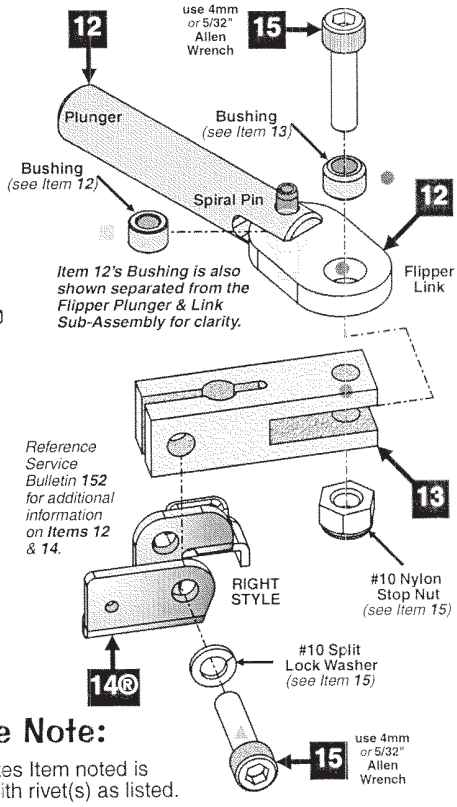
Item 14® is also shown separated from Item 13, Crank Bar, for clarity.



The differences between the Left & Right Flippers are:

Item 1, Item 4 and Item 14®

The coils may also differ depending on the game.



ASSOCIATED PARTS **ARE NOT INCLUDED** WITH THE ABOVE ASSEMBLY.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	**YELLOW** Flipper Bat & Shaft Asm. (Non-Knurled End) ***without** Rubber Ring*	1	515-5133-**06**-06
AP-B	Large Flipper **RED** Rubber Ring	1	545-5277-22

Take Note:

® "R" indicates Item noted is secured with rivet(s) as listed.

Slingshot (Left & Right) Assemblies, 500-5849-00-ND (Qty. 2) (Items 1-9)

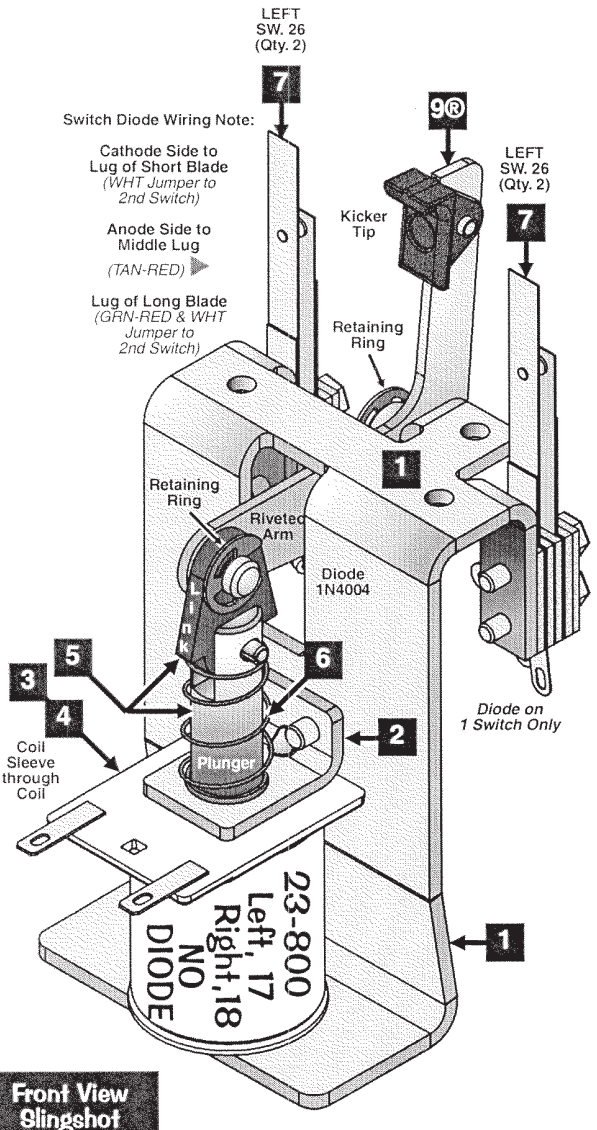
Nr.	SLINGSHOT PARTS	QTY.	SPI PART Nr.
1	Slingshot Bracket Assembly	1/per	515-5339-01
	Item 1 is secured below the playfield by: #8 X 1/2" SHWH AB (Zc.) (Qty. 3) (234-5101-00)		
2	Coil Retaining Bracket	1/per	535-5203-03
	Item 2 is secured to Item 1 by: #8-32 X 3/8" PPH MS (Sems) (Qty. 2) (232-5301-00)		
3	Coil, 23-800 [NO DIODE]	1/per	090-5001-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ⟲ COIL NOTE BELOW FOR DETAILS.		
4	Coil Sleeve	1/per	545-5031-00
5	Plunger & Link Assembly	1/per	515-5338-00
	For Individual Items use : Plunger 2" Lg. (**530-5025-01**), Plunger Link (**545-5293-00**) and Roll Pin 1/8" ø x 5/8" Lg. (**251-5008-00**) **The Plunger Link is secured to the Riveted Arm by:** Retaining Ring, 1/4" ø Shaft (Qty. 1) (270-5002-00)		
	*Ordering Note: If **515-5338-00** is unavailable, order the individual part(s) actually required.*		

Nr.	SLINGSHOT PARTS	QTY.	SPI PART Nr.
6	Compression (Return) Spring	1/per	266-5020-00
7	Slingshot Stack (Blade) Switch	2/per	180-5054-00
	Only 1 of the 2 Switches has a Diode (1N4004) (112-5003-00). *See Note Below on Drawing. Can be replaced with (1N4001) (112-5001-00).*		
8	Switch Body Protect Plate	2/per	535-5045-00
	Items 7 & 8 are secured to Item 1 by: #6-32 X 5/8" HWH Swage (Qty. 4) (237-5976-04)		
9®	Riveted Arm & Tip Assembly	1/per	515-5340-01
	For Individual Parts use (requires drilling out rivet & rereviting) : Arm (**515-5341-01**), Kicker Tip (**545-5216-01**) and Rivet, 1/8" ø x 1/4" Lg. (**249-5003-00**) **The Riv. Arm is secured to Item 1 by:** Retaining Ring, 1/4" ø Shaft (Qty. 1) (270-5002-00)		
	*Ordering Note: If **515-5340-01** is unavailable, order the individual part(s) actually required.*		
	*Ordering Note: If **500-5849-00-ND** is unavailable, order the individual part(s) actually required. This assembly is identical to **500-5849-02-ND** with the exception of **Item 3**, which uses a Coil, 27-1500 [NO DIODE] (**090-5004-ND**) instead.*		

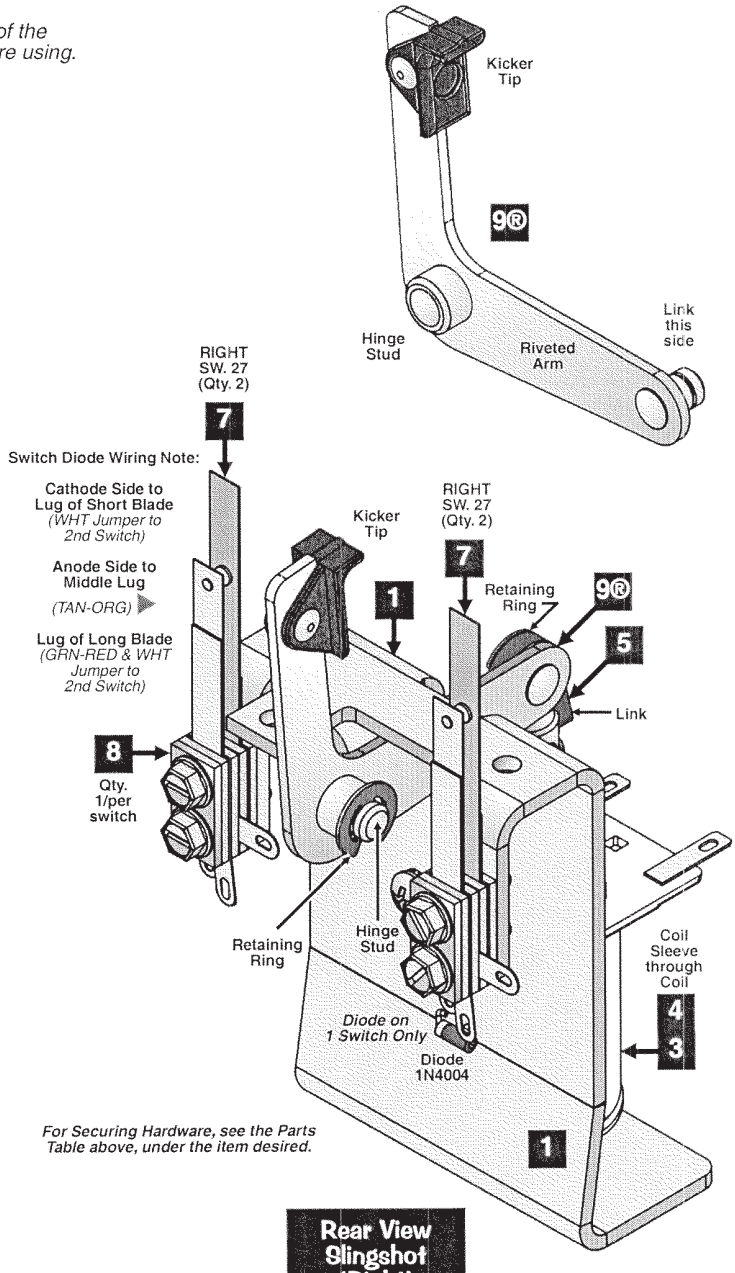
Take Note:

⟲ **Coil Note:** ⟲ NO DIODE ON LUGS. *If replacing with a coil of the same gauge and turn and it has a diode on it, remove it before using.*

® "R" indicates Item noted is secured with rivet(s) as listed.



Front View Slingshot (Left)



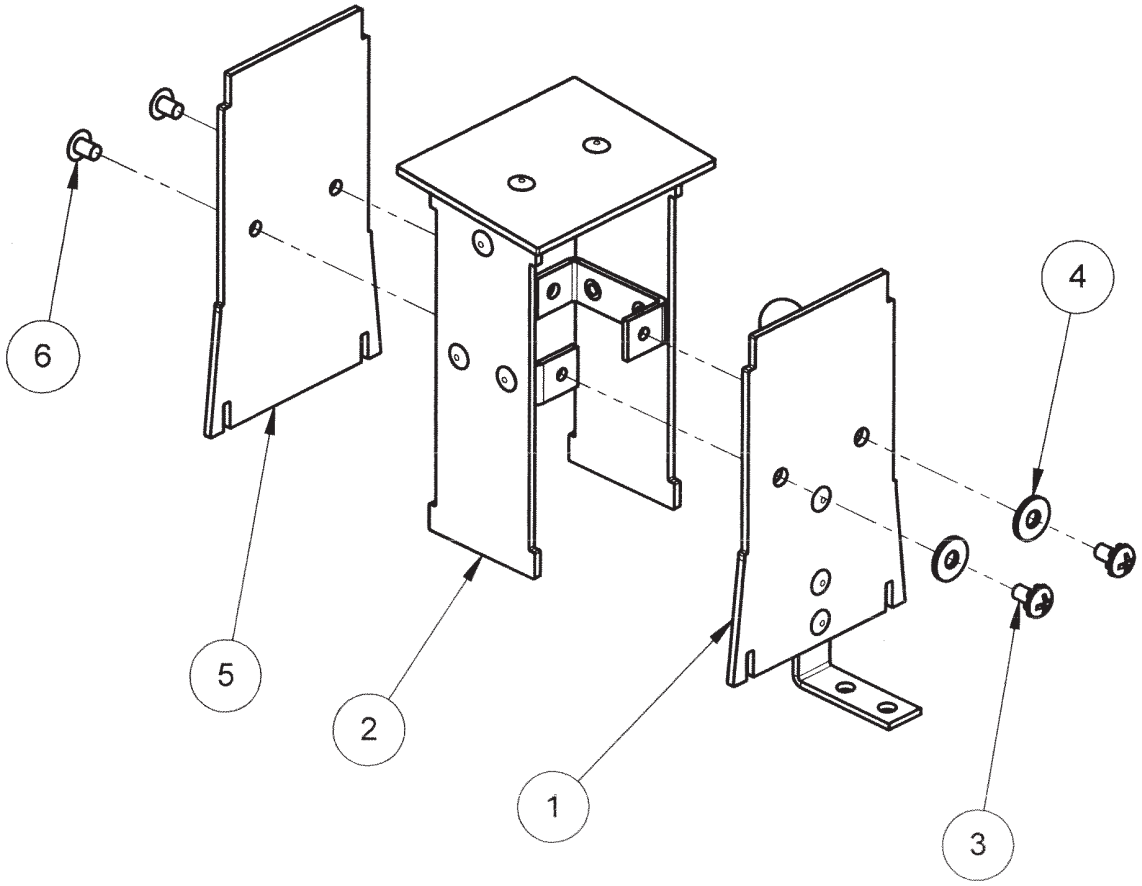
For Securing Hardware, see the Parts Table above, under the item desired.

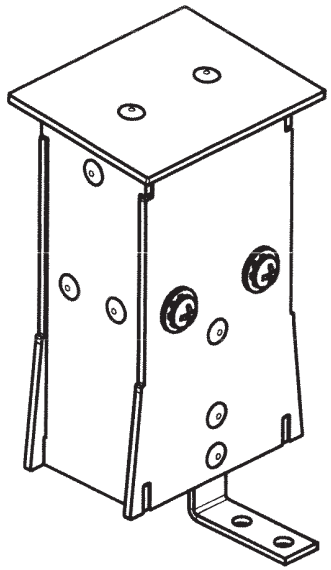
Rear View Slingshot (Right)

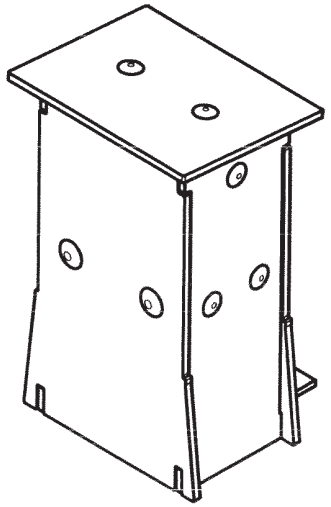
Assemblies & Ramps

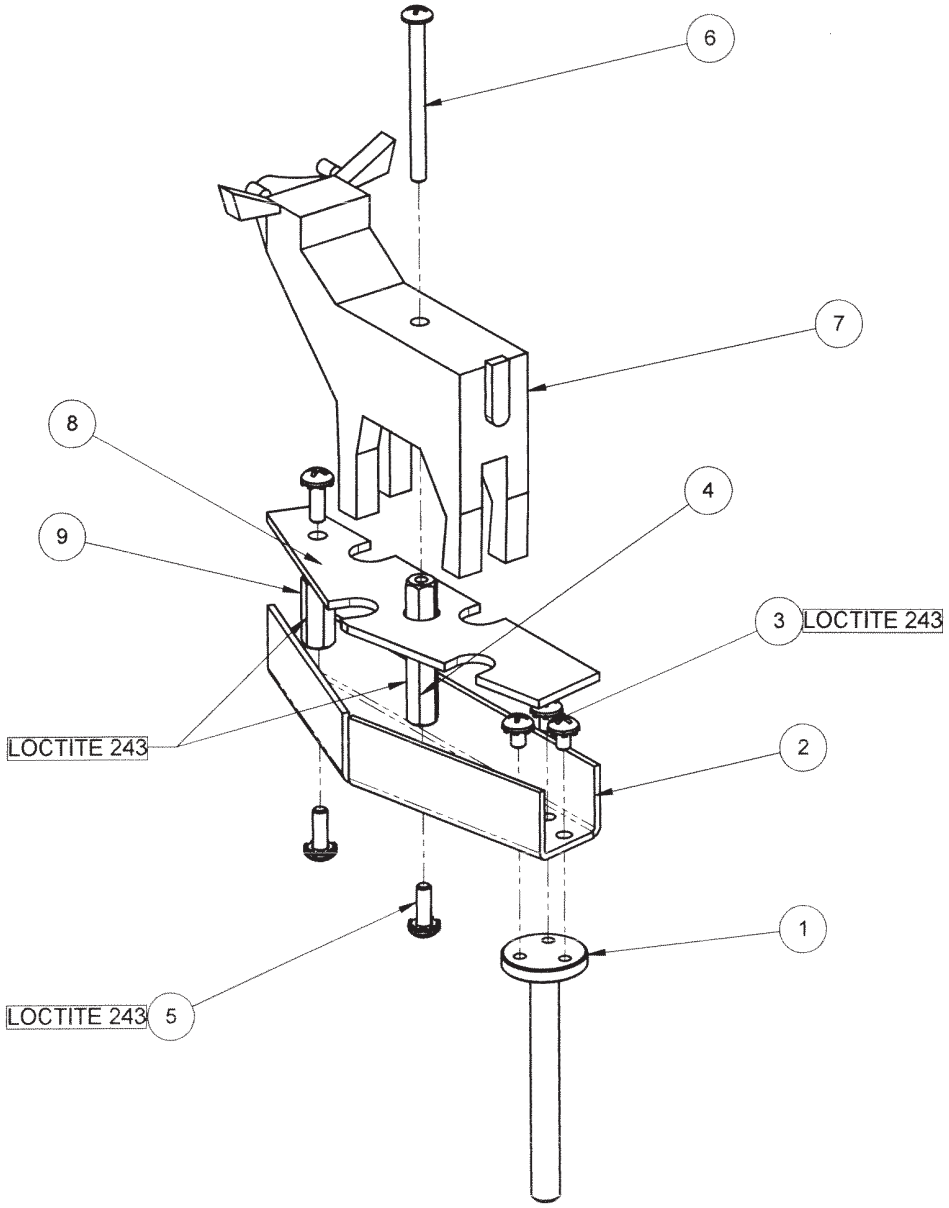
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	510-5100-20	RIVETED ASSY, BLIND - REAR, BBH	1
2	510-5100-19	RIVETED ASSY, BLIND SIDE/TOP, BBH	1
3	232-5200-00	SCREW, 6-32 X 1/4" PPH SEMS	2
4	242-5001-00	#6 WASHER	2
5	830-6103-19	BUTYRATE #19, DEER BLIND FRONT, BBH	1
6	249-5025-00	POP RIVET - 1/8D X 1/8-3/16 GRIP	2

ASSEMBLY, DEER BLIND, BBH
511-5217-20









12/11/09

ITEM #	QTY	PART #	DESCRIPTION
1	1	530-6560-00	SHAFT - ELK PLATFORM
2	1	535-0334-00	PLATFORM - ELK
3	3	232-5209-00	SCREW, 6-32 X 3/16" PPH SEMS
4	1	254-5008-34	HEX SPACER - 1 5/16"
5	3	232-5201-00	SCREW, 6-32 X 3/8" PPH MS SEMS
6	1	237-5510-00	SCREW, 6-32 X 1-1/2" PPH
7	1	880-5110-06-ASY	ELK - FASTENED
8	1	830-6103-26	BUTY #26 - ELK
9	1	254-5008-02	HEX SPACER - 5/8 "

PLATFORM ASSEMBLY - ELK

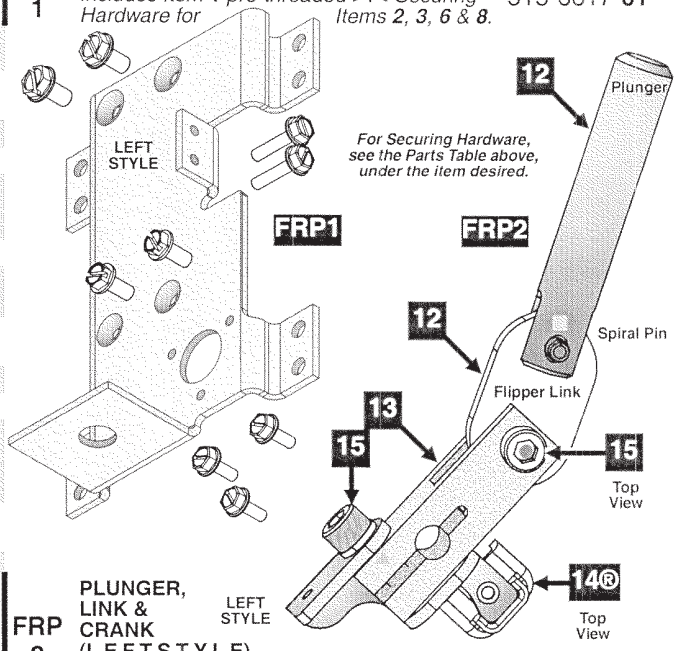
511-5232-00

Flipper (Left Assembly, 500-6543-15-ND (Items 1-15)

Nr.	FLIPPER (LEFT) PARTS	QTY.	SPI PART Nr.
1	Flipper Base Plate (**LEFT**)	1	*See FRP1*
	Item 1 is secured below by: #8 X 1/2" SHWH AB (Zinc) (Qty. 8) (234-5101-00)		
	Ordering Note : Individual Part (535-7275-01) is not prethreaded, see Item FRP1.		
2	Flipper Bat Bushing (White Plastic) .25" ø I.D.	1	545-5070-00
	Item 2 is secured to Item 1 by: #6-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 3) (237-5976-02)		
3	Power (EOS / End-of-Stroke) Switch	1	180-5149-00
	Item 3 is secured to Item 1 by: #6-32 X 5/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5976-04)		
4	Sw. Plate/Spring Return Brkt. (**LEFT**)	1	535-7354-**01**
5	Flipper Return Spring	1	265-5035-00
6	Coil Stop Bracket Sub-Assembly	1	515-6308-01
	Item 6 is secured to Item 1 by: #10-32 X 3/8" SHWH Swage (Serr) Zinc (Qty. 2) (237-5985-00) and #10 Split Lock Washer (Qty. 2) (244-5003-00)		
7	Spring Washer (17/32" ID X 3/4" X 1")	1	269-5002-00
8	Coil Support Bracket	1	535-7356-00
	Item 8 is secured to Item 1 by: #8-32 X 3/8" HWH Swage (Ser.) Zc. (Qty. 2) (237-5975-00)		
9	Coil, 23-1500 [NO DIODE] BLUE	1	090-5062-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ↻ COIL NOTE BELOW FOR DETAILS.		
10	Coil Sleeve	1	545-5388-00
11	Deflector Pad (Bumper)	1	545-5428-00
12	Flipper Plunger & Link Sub-Assy.	1	515-6304-03
	For Individual Items use : Flipper Plunger (**530-5349-01**) and Plunger "Flipper" Link (**545-5611-01**) and is secured to the Plunger by: Bushing, .16" ø ID X .281" ø OD X .187" (Qty. 1) (530-5532-00) and Spiral Pin ø 5/32" X 3/4" Lg. (Qty. 1) (251-5015-02)		
13	Crank Bar (Pawl)	1	530-5070-02
	Item 13 requires: Bushing, .192" ø ID X .312" ø OD X .195" (Qty. 1) (530-5139-00)		
14®	Switch Actuator (**LEFT**) Sub-Assy.	1	515-7257-**01**
	For Individual Items use : Actuator & Spring Bracket (**LEFT**) (**535-9038-01**) and ® Switch Actuator (White Plastic) (**545-5612-00**) and is secured to the Bracket by: Rivet, 1/8" ø X 1/4" Lg. (Qty. 1) (249-5003-00)		
15	Set Screw: #10-32 X 3/4" Socket Hd.	2	237-6144-00
	Item 15 requires: #10-32 Nylon Stop Nut (Qty. 1) ***Flipper Link Side Only*** (240-5203-00) and #10 Split Lock Washer (Qty. 1) ***Switch Actuator Side Only*** (244-5003-00)		
	Tool required for Item 15: 5/32" *or* 4mm Allen Wrench		

Flipper Rebuild Parts for Easier Installation, Save $:

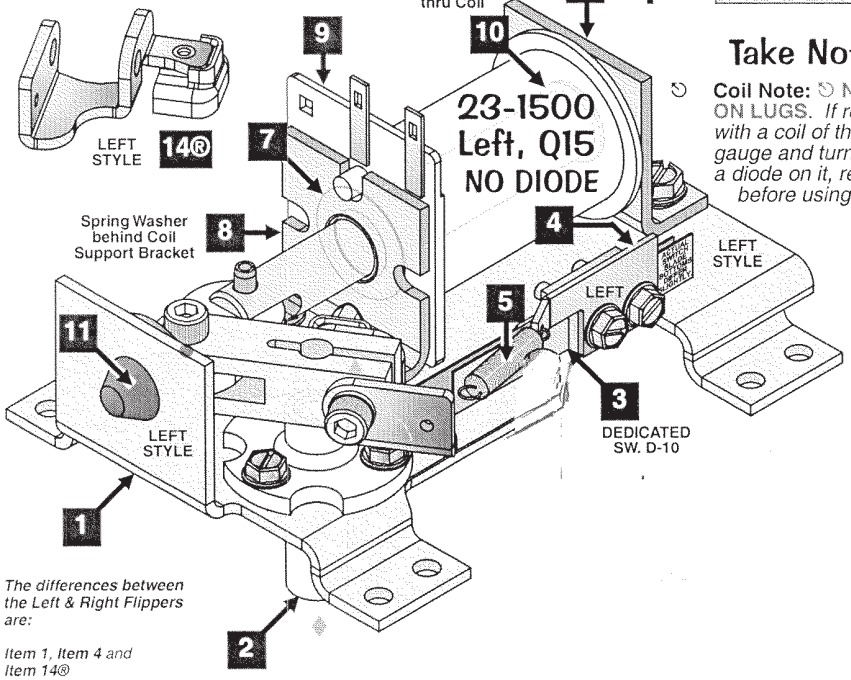
FRP 1 **FLIPPER BASE PLATE KIT (LEFT) :** *Includes Item **1** pre-threaded >+< Securing Hardware for Items **2, 3, 6 & 8.*** 515-6617-**01**



FRP 2 **PLUNGER, LINK & CRANK (LEFT STYLE) ASSEMBLY :** *Includes Items **12, 13, 14 & 15** (comes assembled).* 515-7203-**01**

FRP 3 **FLIPPER (LEFT) REBUILD KIT :** *Includes Items **6, 10** AND above **FRP2*** 500-6307-**10**

Item 14® is also shown separated from Item 13, Crank Bar, for clarity.



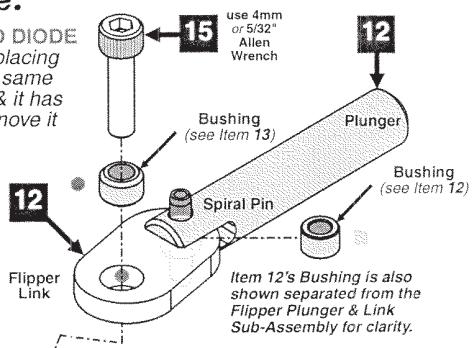
The differences between the Left & Right Flippers are:

Item 1, Item 4 and Item 14®

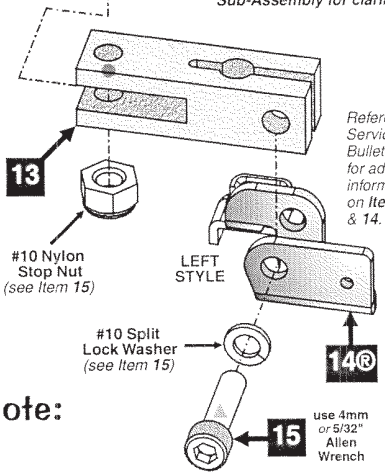
The coils may also differ depending on the game.

Take Note:

Coil Note: ↻ NO DIODE ON LUGS. *If replacing with a coil of the same gauge and turn & it has a diode on it, remove it before using.*



Item 12's Bushing is also shown separated from the Flipper Plunger & Link Sub-Assembly for clarity.

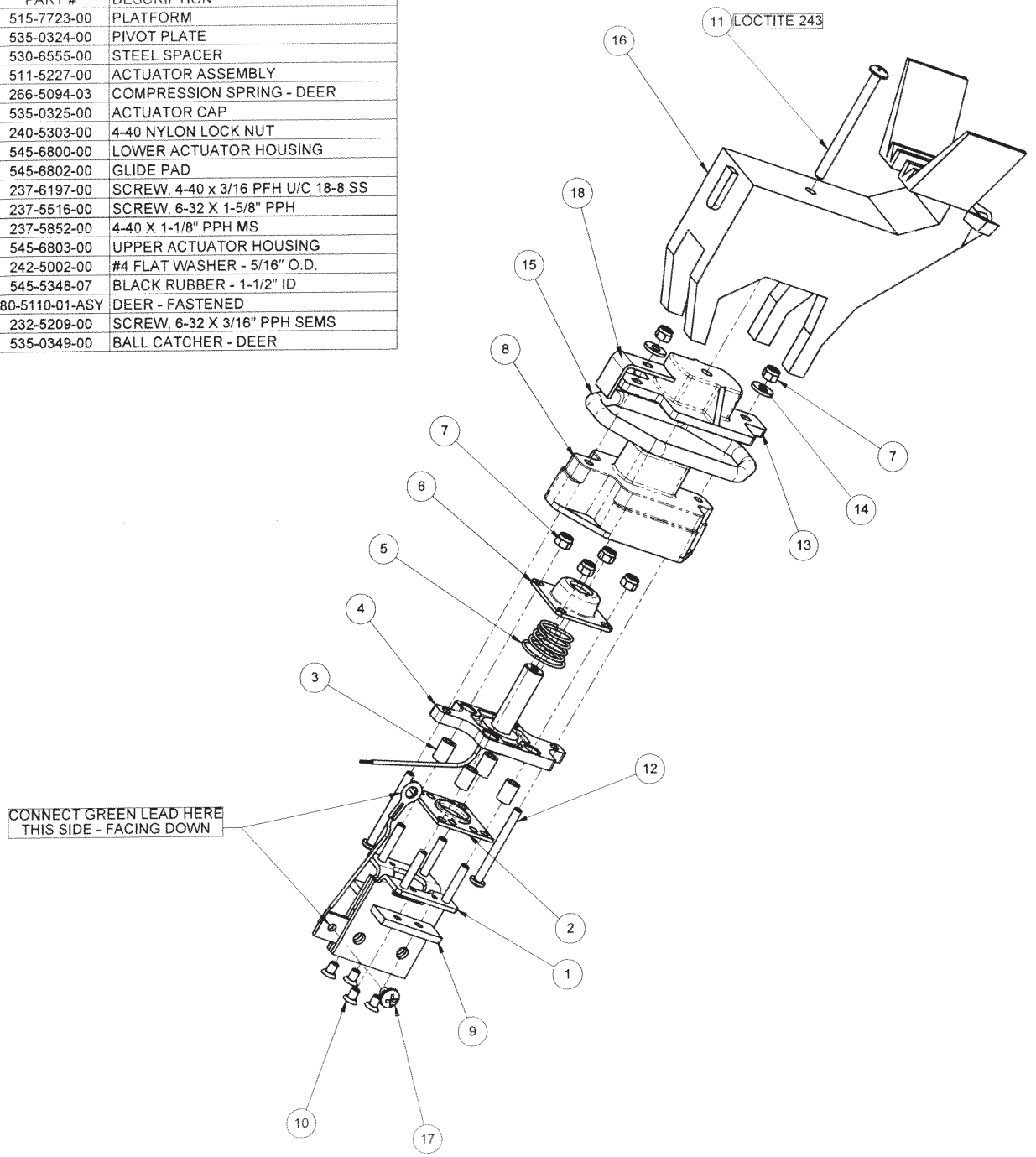


Reference Service Bulletin 152 for additional information on Items 12 & 14.

Take Note:

b9

ITEM #	QTY	PART #	DESCRIPTION
1	1	515-7723-00	PLATFORM
2	1	535-0324-00	PIVOT PLATE
3	4	530-6555-00	STEEL SPACER
4	1	511-5227-00	ACTUATOR ASSEMBLY
5	1	266-5094-03	COMPRESSION SPRING - DEER
6	1	535-0325-00	ACTUATOR CAP
7	6	240-5303-00	4-40 NYLON LOCK NUT
8	1	545-6800-00	LOWER ACTUATOR HOUSING
9	2	545-6802-00	GLIDE PAD
10	4	237-6197-00	SCREW, 4-40 x 3/16 PFH U/C 18-8 SS
11	1	237-5516-00	SCREW, 6-32 X 1-5/8" PPH
12	2	237-5852-00	4-40 X 1-1/8" PPH MS
13	1	545-6803-00	UPPER ACTUATOR HOUSING
14	2	242-5002-00	#4 FLAT WASHER - 5/16" O.D.
15	1	545-5348-07	BLACK RUBBER - 1-1/2" ID
16	1	880-5110-01-ASY	DEER - FASTENED
17	1	232-5209-00	SCREW, 6-32 X 3/16" PPH SEMS
18	1	535-0349-00	BALL CATCHER - DEER

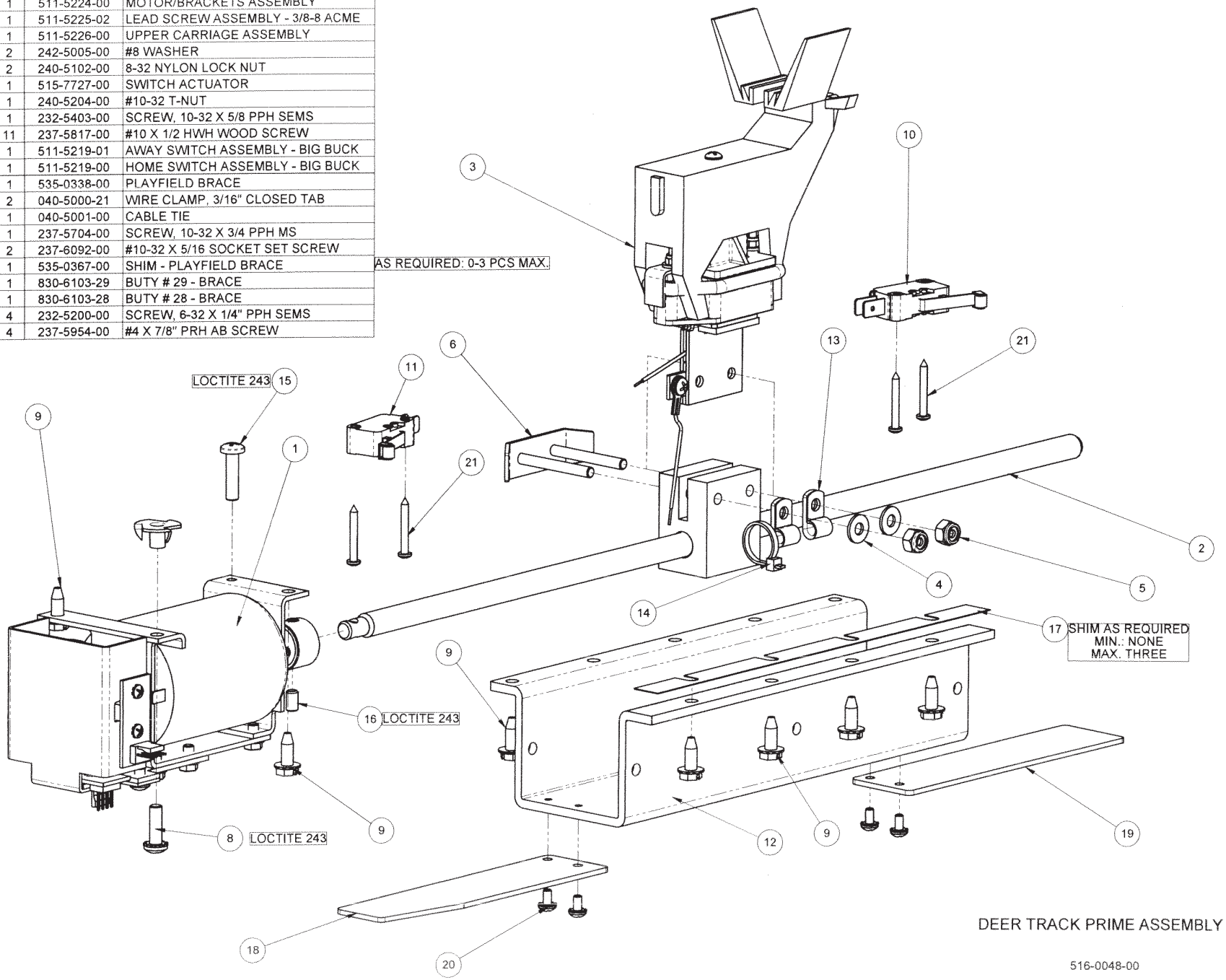


11/12/09

UPPER CARRIAGE ASSEMBLY

511-5226-00

ITEM #	QTY	PART #	DESCRIPTION
1	1	511-5224-00	MOTOR/BRACKETS ASSEMBLY
2	1	511-5225-02	LEAD SCREW ASSEMBLY - 3/8-8 ACME
3	1	511-5226-00	UPPER CARRIAGE ASSEMBLY
4	2	242-5005-00	#8 WASHER
5	2	240-5102-00	8-32 NYLON LOCK NUT
6	1	515-7727-00	SWITCH ACTUATOR
7	1	240-5204-00	#10-32 T-NUT
8	1	232-5403-00	SCREW, 10-32 X 5/8 PPH SEMS
9	11	237-5817-00	#10 X 1/2 HWH WOOD SCREW
10	1	511-5219-01	AWAY SWITCH ASSEMBLY - BIG BUCK
11	1	511-5219-00	HOME SWITCH ASSEMBLY - BIG BUCK
12	1	535-0338-00	PLAYFIELD BRACE
13	2	040-5000-21	WIRE CLAMP, 3/16" CLOSED TAB
14	1	040-5001-00	CABLE TIE
15	1	237-5704-00	SCREW, 10-32 X 3/4 PPH MS
16	2	237-6092-00	#10-32 X 5/16 SOCKET SET SCREW
17	1	535-0367-00	SHIM - PLAYFIELD BRACE
18	1	830-6103-29	BUTY # 29 - BRACE
19	1	830-6103-28	BUTY # 28 - BRACE
20	4	232-5200-00	SCREW, 6-32 X 1/4" PPH SEMS
21	4	237-5954-00	#4 X 7/8" PRH AB SCREW

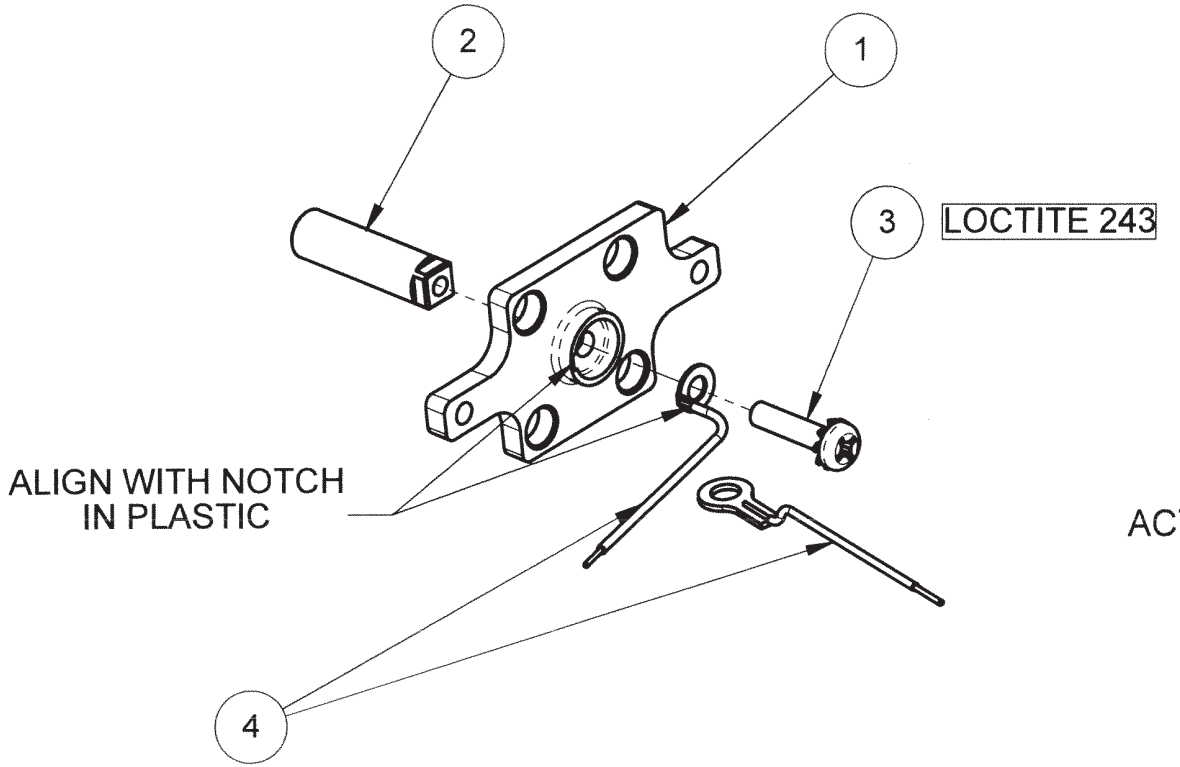


12/16/09

DEER TRACK PRIME ASSEMBLY

516-0048-00

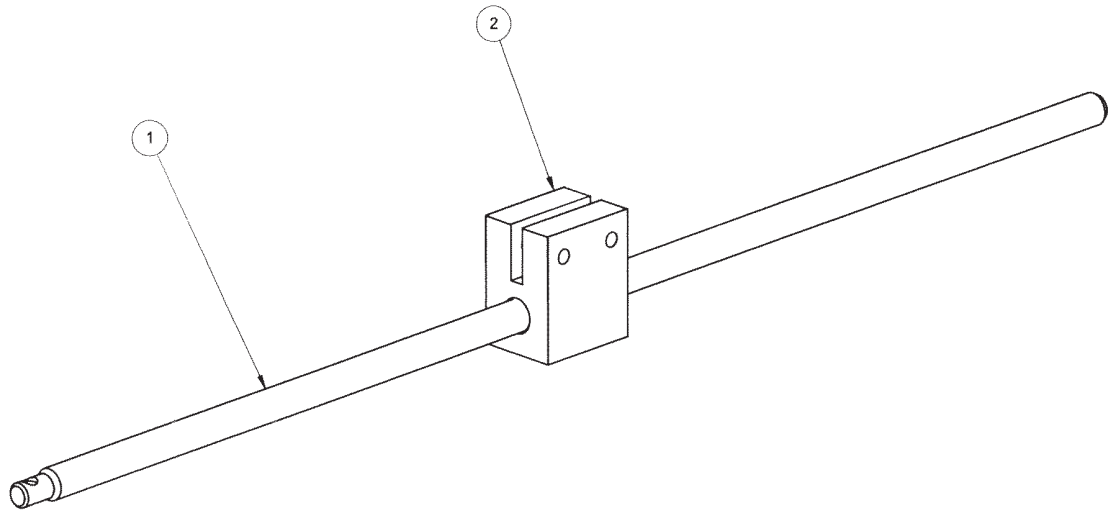
ITEM #	QTY	PART #	DESCRIPTION
1	1	545-6799-00	ACTUATOR PLATE
2	1	530-6556-00	ACTUATOR POST
3	1	232-5203-00	SCREW, 6-32 x 5/8 PPH SEMS ZINC
4	1	036-5546-11-B2	CABLE - DEER SWITCH



ACTUATOR ASSEMBLY

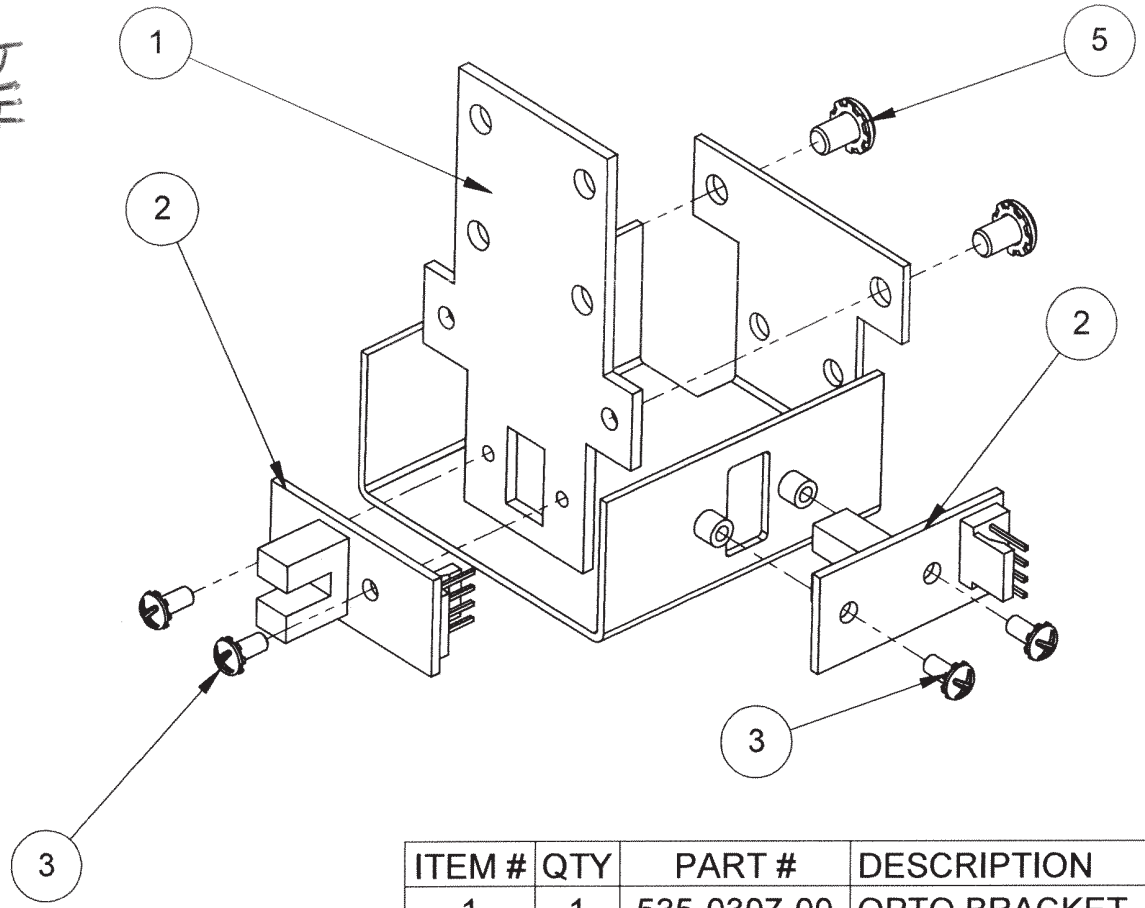
511-5227-00

ITEM #	QTY	PART #	DESCRIPTION
1	1	530-6554-02	LEAD SCREW - 3/8"-8 X 17"
2	1	545-6801-01	LOWER CARRIER - THREADED



LEAD SCREW ASSEMBLY - 3/8-8 ACME

511-5225-02



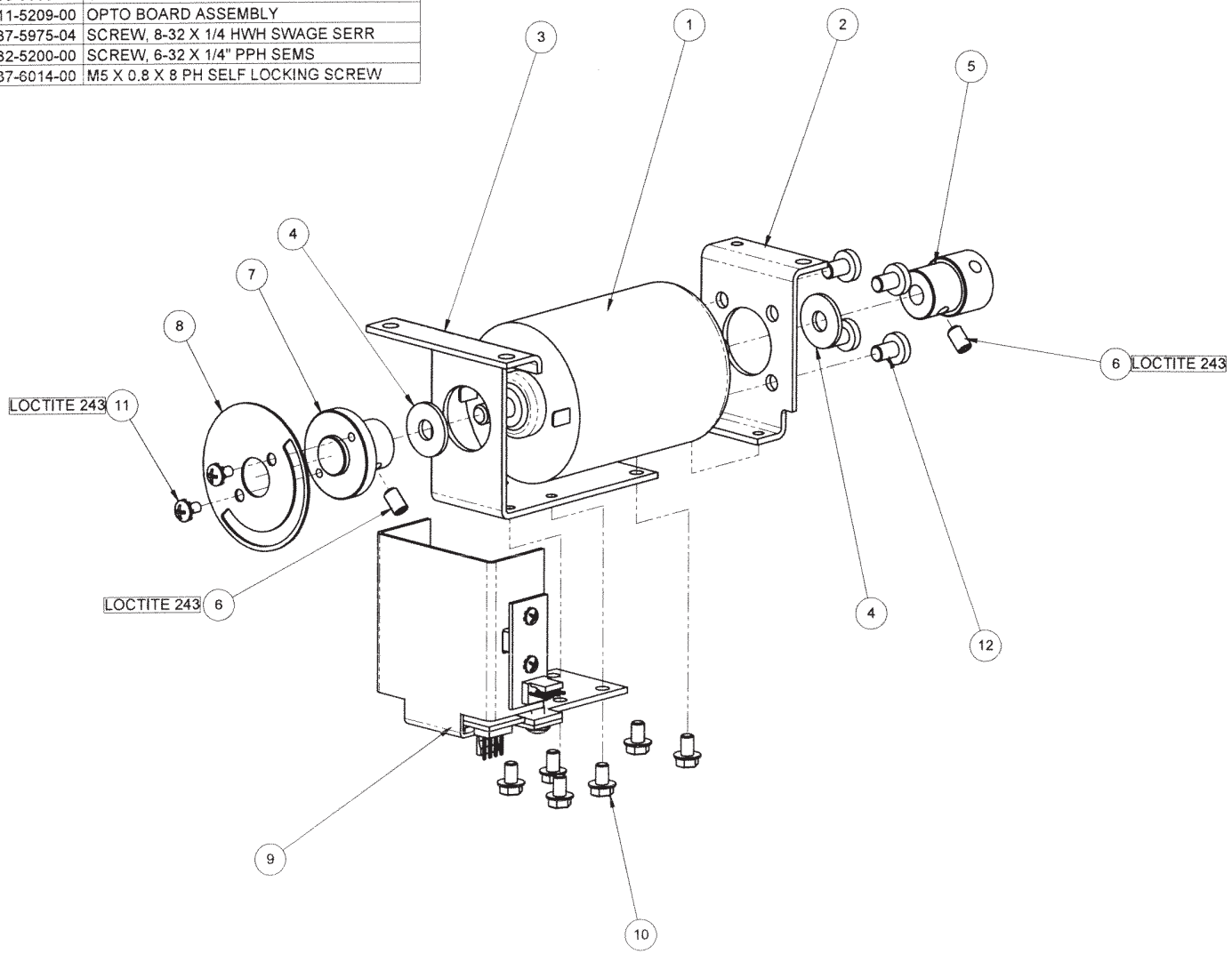
ITEM #	QTY	PART #	DESCRIPTION
1	1	535-0307-00	OPTO BRACKET
2	2	520-5292-01	OPTO INTERRUPTOR BOARD - STRAIGHT CONNECTOR
3	4	237-5909-00	SCREW, 4-40 X 1/4" PPH SEMS
4	1	515-7728-00	OPTO COVER
5	2	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS

OPTO BOARD ASSEMBLY

511-5209-00

ITEM #	QTY	PART #	DESCRIPTION
1	1	511-5190-00	SOLDER ASSY - SPINNING DISK MOTOR
2	1	535-0321-00	MOTOR BRACKET
3	1	535-0322-00	MOTOR OPTO MTG. BRACKET
4	2	242-5028-00	WASHER NYLON .265 X .688 X .063
5	1	530-6550-02	HUB
6	2	237-6092-00	#10-32 X 5/16 SOCKET SET SCREW
7	1	530-6550-01	HUB
8	1	535-0308-00	OPTO DISK
9	1	511-5209-00	OPTO BOARD ASSEMBLY
10	6	237-5975-04	SCREW, 8-32 X 1/4 HWH SWAGE SERR
11	2	232-5200-00	SCREW, 6-32 X 1/4" PPH SEMS
12	4	237-6014-00	M5 X 0.8 X 8 PH SELF LOCKING SCREW

8/20/09

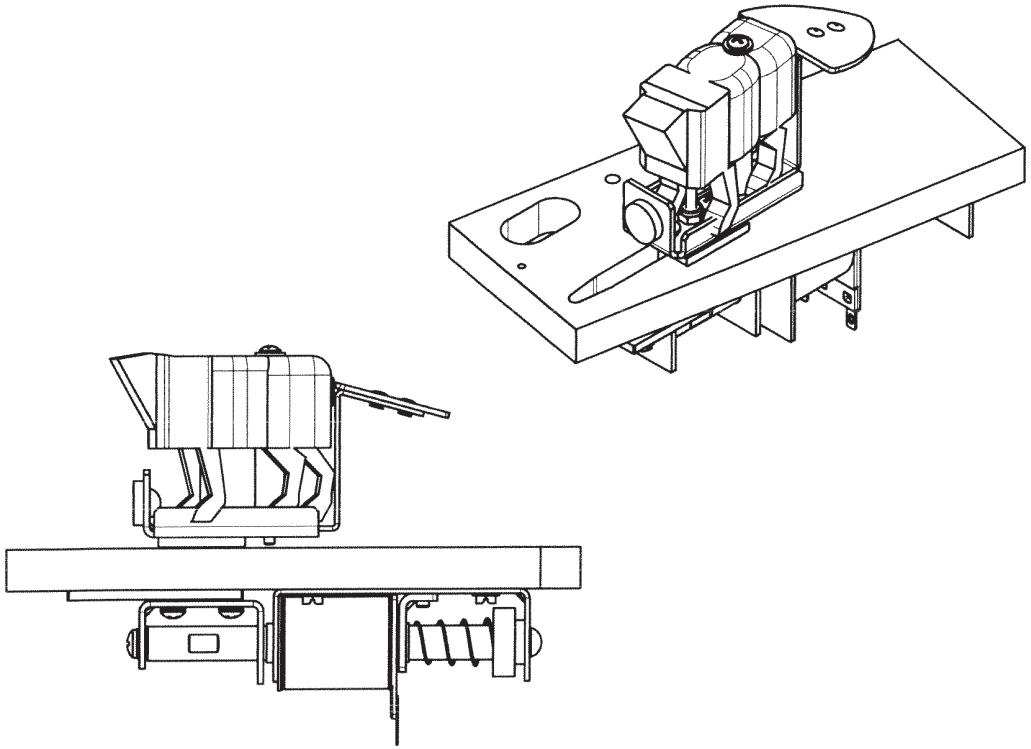


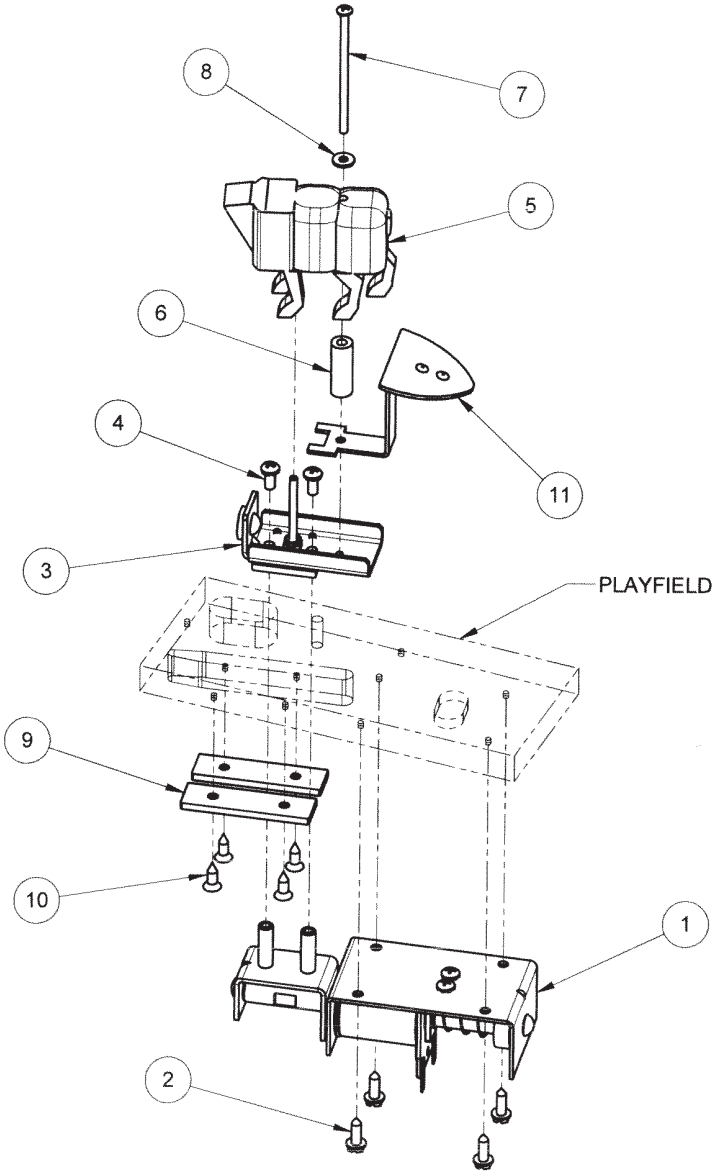
MOTOR/BRACKETS ASSEMBLY

511-5224-00

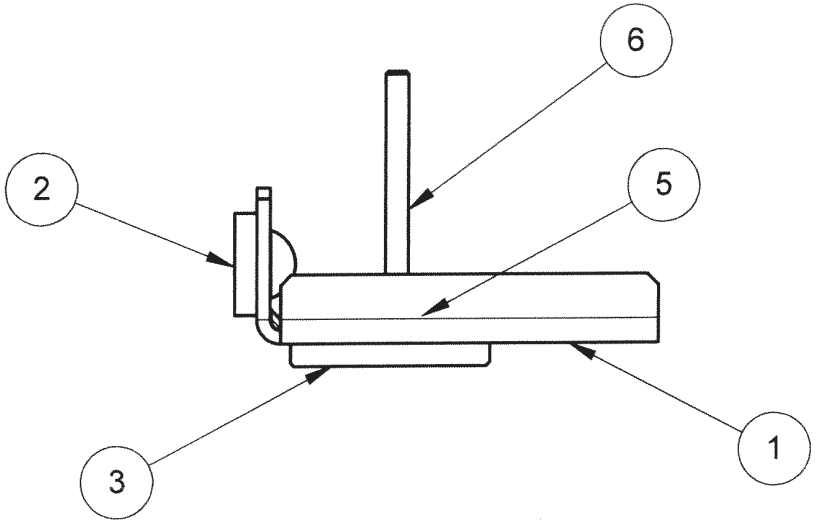
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	500-7166-00	ASSEMBLY, RAM KICKER, BIG BUCK	1
2	234-5101-00	SCREW, #8 X 1/2" SLT HWH AB ZINC	4
3	511-5231-00	ASSEMBLY, RAM MOUNT BRKT, BBH	1
4	232-5301-00	SCREW, 8-32 X 3/8" PPH SEMS	2
5	880-5110-04-ASY	RAM TOY, MODIFIED, BIG BUCK	1
6	254-5000-04	SPACER - 1" GRAY	1
7	237-5514-01	SCREW, 6-32 X 2-1/2" PPH MS (ZINC)	1
8	242-5001-00	#6 WASHER	1
9	545-6325-01	GLIDE PLATE, ARK BLOCK	2
10	237-5812-00	SCREW, #8 X 1/2 PFH AB	4
11	510-5100-27	RIVETED ASSY, BUTY #27, BBH	1

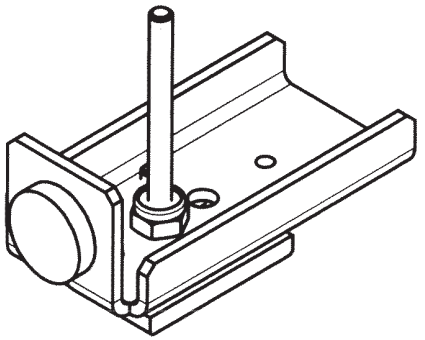
PRIME ASSEMBLY, RAM MECH, BBH





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0329-00	MOUNT BRACKET, RAM, BBH	1
2	545-5105-00	RUBBER BUMPER	1
3	545-6805-00	GLIDE PAD, RAM MOUNT, BBH	2
4	237-5983-02	SCREW, 4-40 x 1/4" PFH MS - BLACK	4
5	240-5005-00	6-32 NYLOK STOP NUT	1
6	237-5510-00	SCREW, 6-32 X 1-1/2" PPH	1



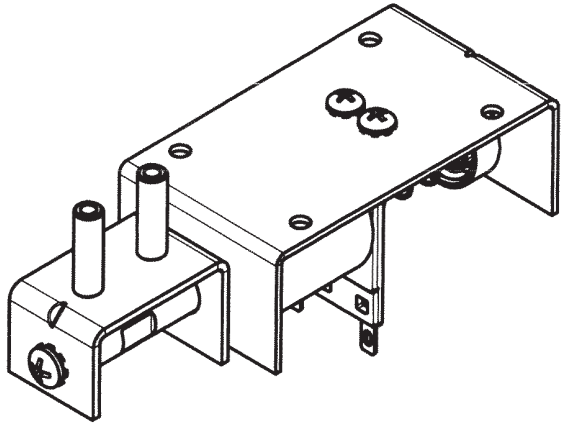


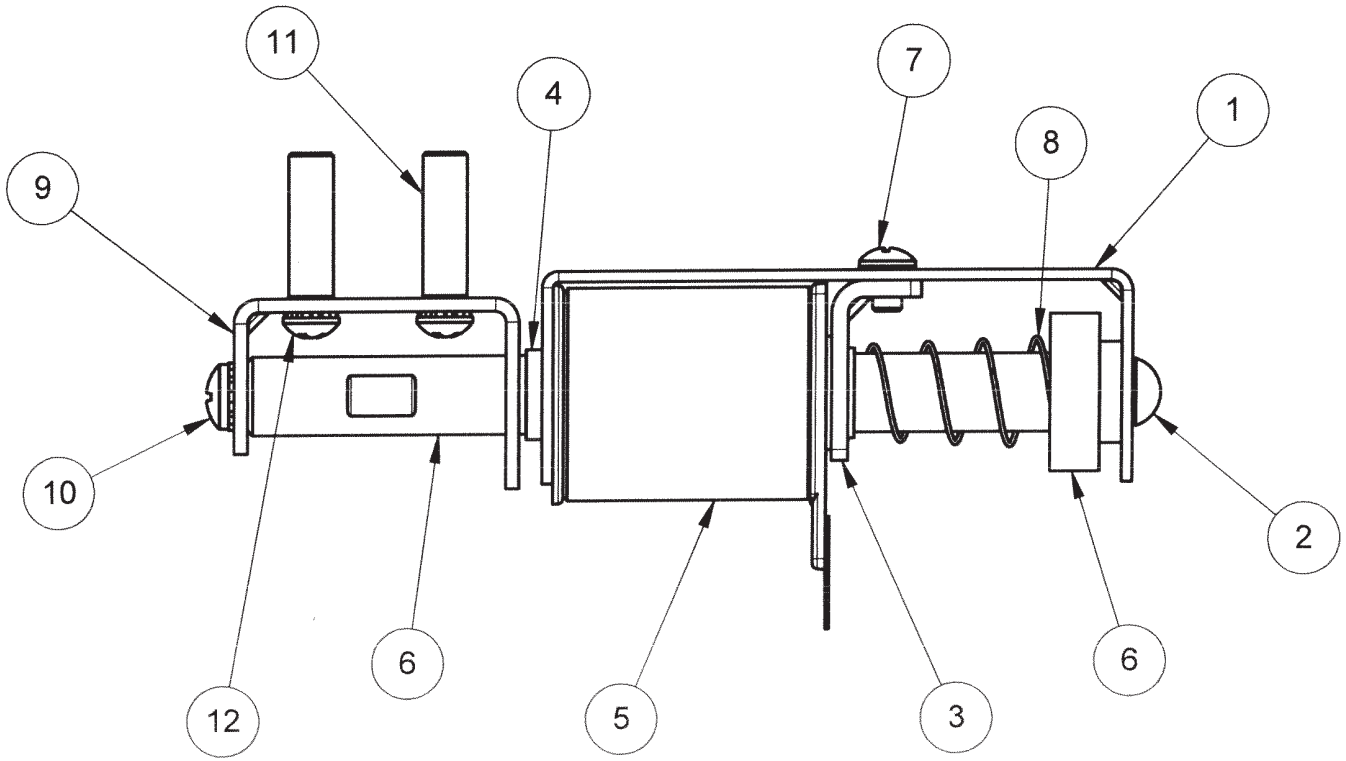
ASSEMBLY, RAM MOUNT BRKT, BBH
511-5231-00

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0327-00	MOUNT BRACKET, RAM KICKER, BBH	1
2	545-5105-00	RUBBER BUMPER	1
3	535-5203-03	COIL RETAINING BRACKET	1
4	545-5076-01	COIL SLEEVE	1
5	090-5001-ND	COIL - 23-800, NO DIODE	1
6	515-7726-00	PLUNGER ASSY, RAM KICKER, BBH	1
7	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS	2
8	266-5020-00	COMPRESSION SPRING-CONICAL	1
9	535-0328-00	DRIVE BRACKET, RAM KICKER, BBH	1
10	232-5401-00	SCREW, 10-32 X 3/8 PPH SEMS	1
11	254-5060-00	SPACER, Ø1/4" X 13/16", 8-32 HOLE	2
12	232-5301-00	SCREW, 8-32 X 3/8" PPH SEMS	2
99*	036-5542-00	CABLE, GENERIC D/T	1

* ITEM NOT SHOWN

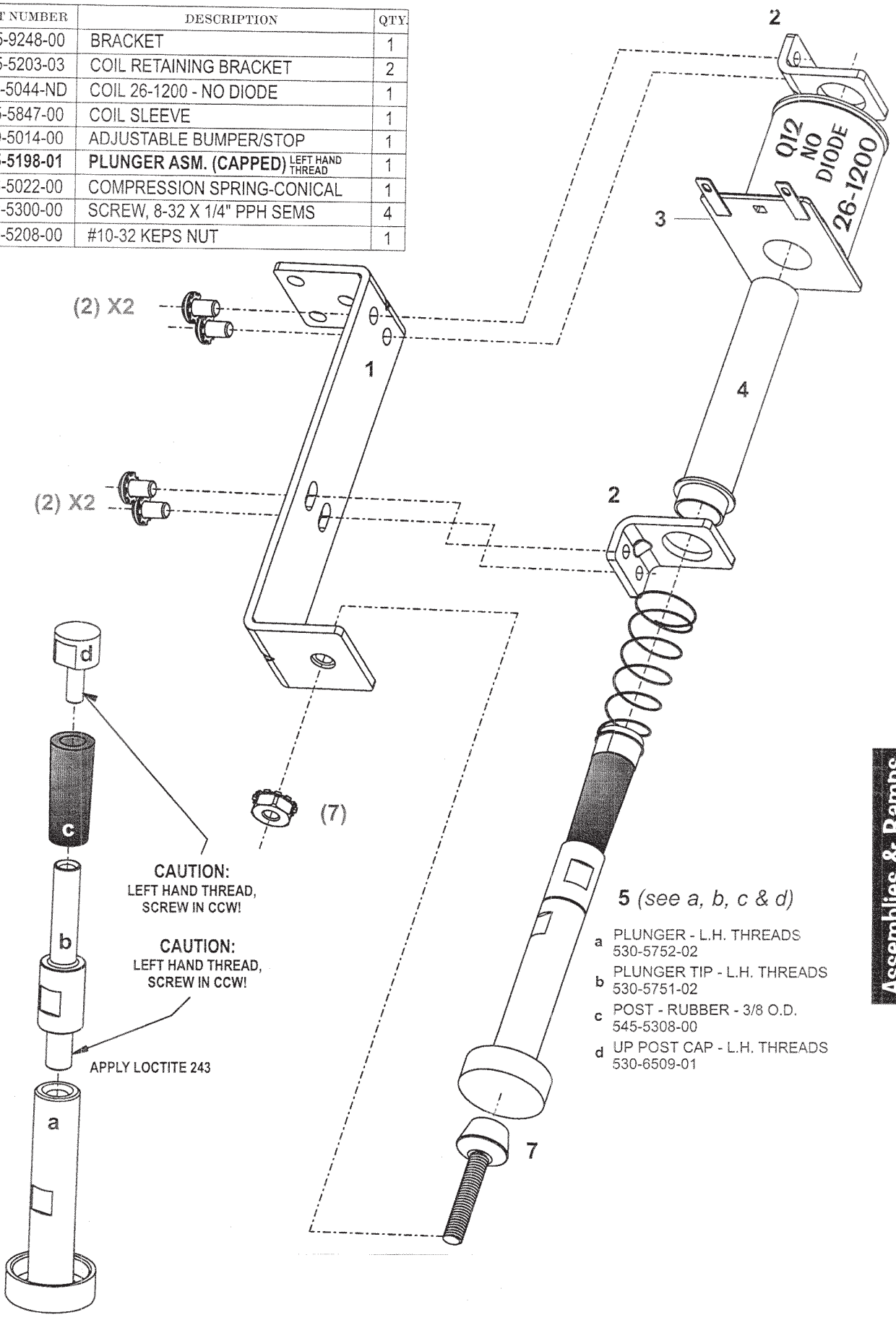
ASSEMBLY, RAM KICKER, BIG BUCK
500-7166-00





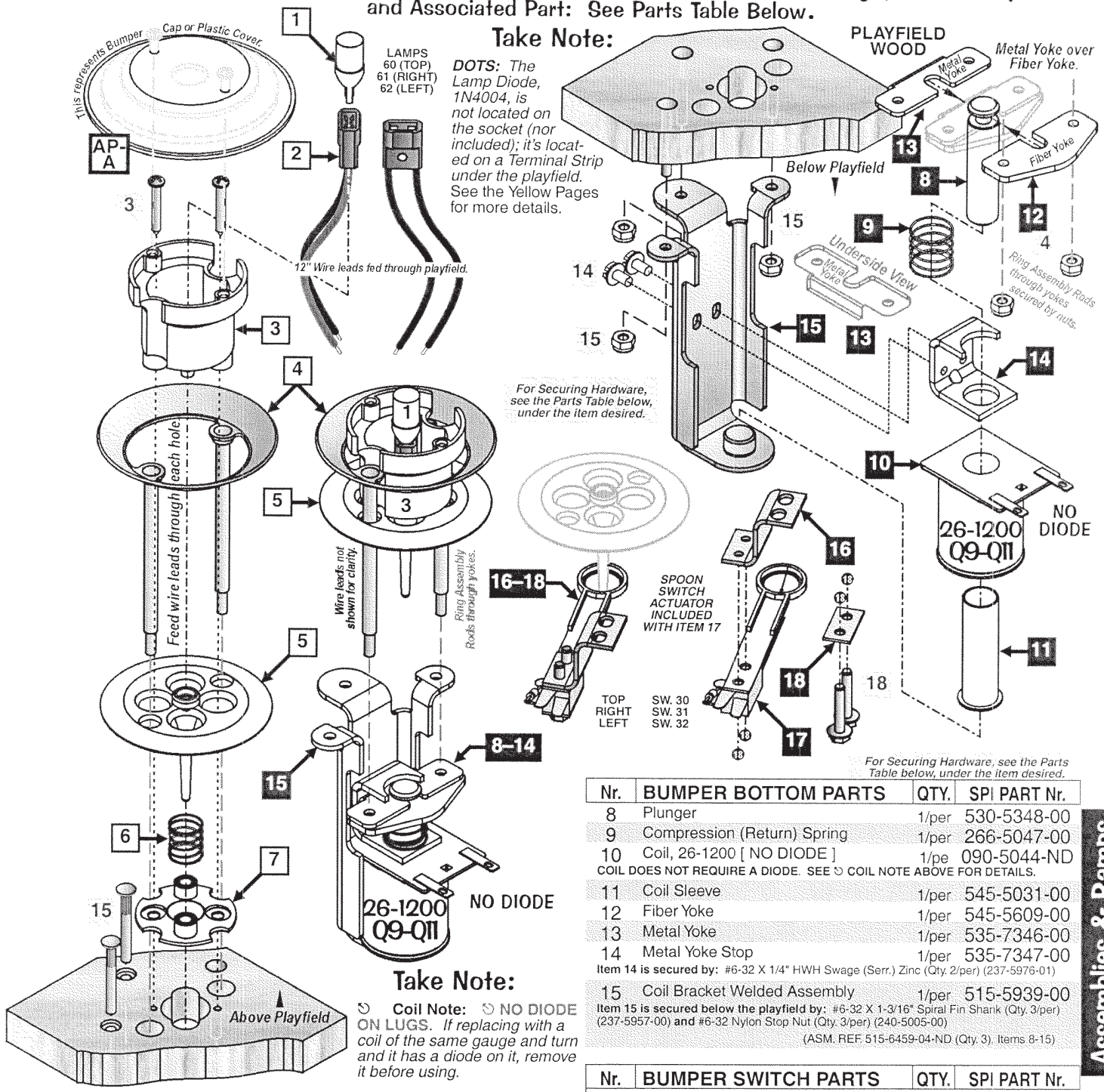
Up/Down Post Assembly. 500-7153-04 (Items 1-7)

NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-9248-00	BRACKET	1
2	535-5203-03	COIL RETAINING BRACKET	2
3	090-5044-ND	COIL 26-1200 - NO DIODE	1
4	545-5847-00	COIL SLEEVE	1
7	280-5014-00	ADJUSTABLE BUMPER/STOP	1
5	**515-5198-01**	**PLUNGER ASM. (CAPPED)** LEFT HAND THREAD	1
6	266-5022-00	COMPRESSION SPRING-CONICAL	1
(2)	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS	4
(7)	240-5208-00	#10-32 KEPS NUT	1



Left, Right & Bottom Bumper & Switch Individual Parts Only (Items 1-18)

and Associated Part: See Parts Table Below.



Nr.	BUMPER TOP PARTS	QTY.	SPI PART Nr.
1	LED Module (WHT) (6.3v) Wedge Base	1/per	112-5024-08
2	Wedge Base Socket	1/per	077-5206-00
3	Bumper Body	1/per	545-5197-00
	Item 3 is secured above the P/F by: #5 X 7/8" PRH AB (Zinc) (Qty. 2/per) (237-5826-00)		
4	Ring Assembly	1/per	515-5085-00
	Item 4 is secured by: #6-32 Nylon Stop Nut (Qty. 2/per) (240-5005-00)		
5	Bumper Skirt (Switch Actuator)	1/per	545-5607-00
6	Bumper Skirt Compression Spring	1/per	266-5048-00
7	Bumper Base	1/per	545-5195-00
	(ASM. REF. 515-6459-01L (Qty. 3), Items 1-7		

The Top & Bottom Assemblies are secured together by hardware noted in Item 4.

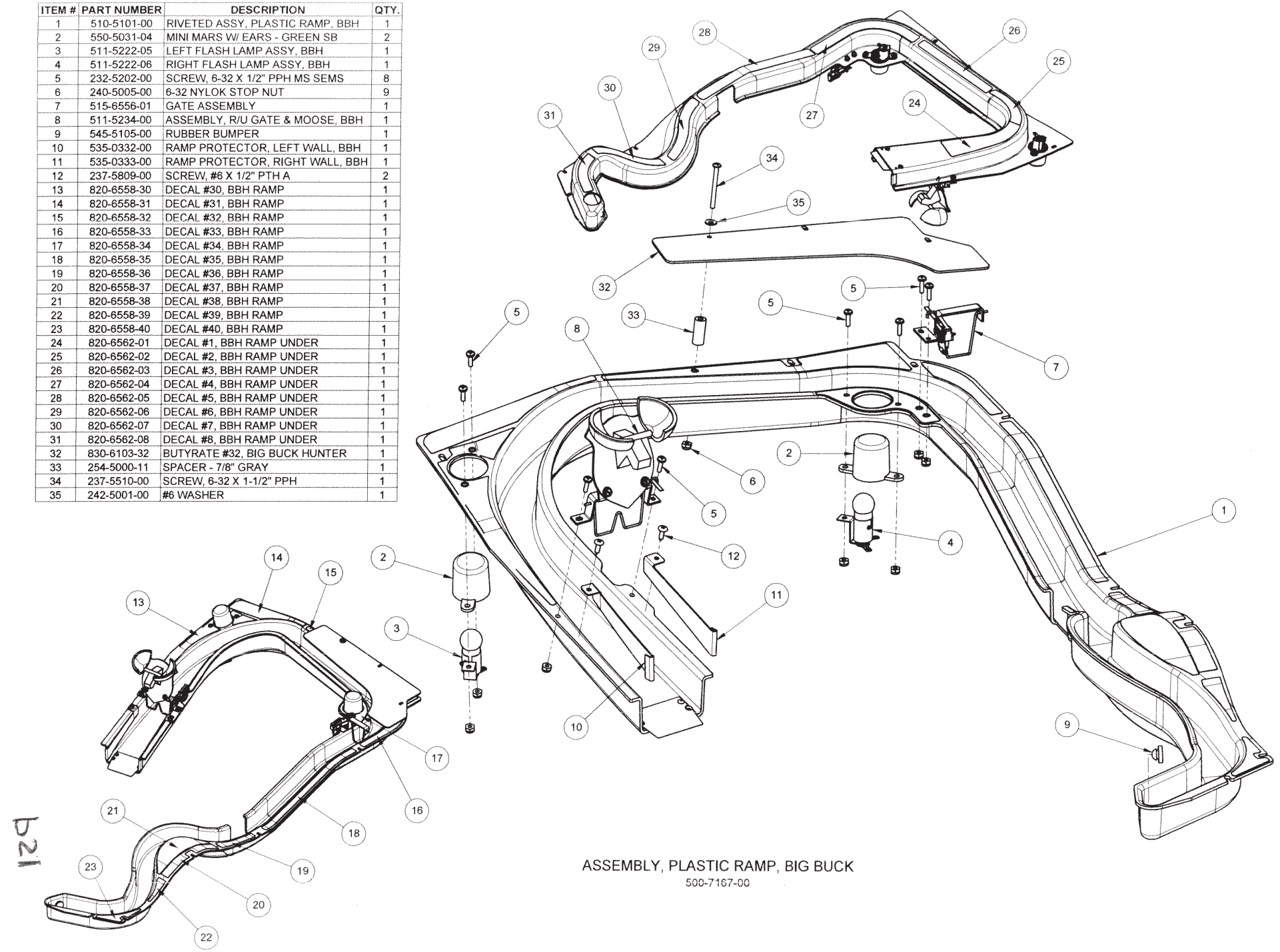
Nr.	BUMPER BOTTOM PARTS	QTY.	SPI PART Nr.
8	Plunger	1/per	530-5348-00
9	Compression (Return) Spring	1/per	266-5047-00
10	Coil, 26-1200 [NO DIODE]	1/pe	090-5044-ND
	COIL DOES NOT REQUIRE A DIODE. SEE ↻ COIL NOTE ABOVE FOR DETAILS.		
11	Coil Sleeve	1/per	545-5031-00
12	Fiber Yoke	1/per	545-5609-00
13	Metal Yoke	1/per	535-7346-00
14	Metal Yoke Stop	1/per	535-7347-00
	Item 14 is secured by: #6-32 X 1/4" HWH Swage (Serr.) Zinc (Qty. 2/per) (237-5976-01)		
15	Coil Bracket Welded Assembly	1/per	515-5939-00
	Item 15 is secured below the playfield by: #6-32 X 1-3/16" Spiral Fin Shank (Qty. 3/per) (237-5957-00) **and** #6-32 Nylon Stop Nut (Qty. 3/per) (240-5005-00)		
	(ASM. REF. 515-6459-04-ND (Qty. 3), Items 8-15)		

Nr.	BUMPER SWITCH PARTS	QTY.	SPI PART Nr.
16	Switch Bracket	1/per	535-7342-00
	Item 16 is secured by: #8 X 1/2" HWH AB (Zinc) (Qty. 2/per) (234-5101-00)		
17	Bumper Stack (Blade) Switch Assy.	1/per	180-5015-04
	Included with Item 17 : Spoon Switch Actuator (**545-5610-02**). Switch has a Diode (1N4004) (112-5003-00). *Can be replaced with (1N4001) (112-5001-00).*		
18	Switch Body Protect Plate	1/per	535-7344-00
	Items 17 & 18 are secured by: #6-32 X 3/4" HWH Swage (Serr) Zc. (Qty. 2) (237-5976-05)		
	Can substitute Item 17 with 180-5015-05 (ASM. REF. 515-6459-09/R (Qty. 3), Items 16-18)		

ASSOCIATED PARTS **ARE NOT INCLUDED** WITH THE ABOVE ASSEMBLIES.

Nr.	ASSOCIATED PART(S)	QTY.	SPI PART Nr.
AP-A	Kit: Plastics *(includes -10, -11 & -12)*	1	803-5000-A9
	Note: *Individual Plastics (830-6101-XX) are not available individually, ordering of kit is required.*		
	Item AP-A is secured Item 3 by: #5 X 7/8" PRH AB (Zinc) (Qty. 2/per) (237-5826-00)		

ITEM #	PART NUMBER	DESCRIPTION	QTY.
1	510-5101-00	RIVETED ASSY, PLASTIC RAMP, BBH	1
2	550-5031-04	MINI MARS W/ EARS - GREEN SB	2
3	511-5222-05	LEFT FLASH LAMP ASSY, BBH	1
4	511-5222-06	RIGHT FLASH LAMP ASSY, BBH	1
5	232-5202-00	SCREW, 6-32 X 1/2" PPH MS SEMS	8
6	240-5005-00	6-32 NYLOK STOP NUT	9
7	515-6556-01	GATE ASSEMBLY	1
8	511-5234-00	ASSEMBLY, R/U GATE & MOOSE, BBH	1
9	545-5105-00	RUBBER BUMPER	1
10	535-0332-00	RAMP PROTECTOR, LEFT WALL, BBH	1
11	535-0333-00	RAMP PROTECTOR, RIGHT WALL, BBH	1
12	237-5809-00	SCREW, #6 X 1/2" PTH A	2
13	820-6558-30	DECAL #30, BBH RAMP	1
14	820-6558-31	DECAL #31, BBH RAMP	1
15	820-6558-32	DECAL #32, BBH RAMP	1
16	820-6558-33	DECAL #33, BBH RAMP	1
17	820-6558-34	DECAL #34, BBH RAMP	1
18	820-6558-35	DECAL #35, BBH RAMP	1
19	820-6558-36	DECAL #36, BBH RAMP	1
20	820-6558-37	DECAL #37, BBH RAMP	1
21	820-6558-38	DECAL #38, BBH RAMP	1
22	820-6558-39	DECAL #39, BBH RAMP	1
23	820-6558-40	DECAL #40, BBH RAMP	1
24	820-6562-01	DECAL #1, BBH RAMP UNDER	1
25	820-6562-02	DECAL #2, BBH RAMP UNDER	1
26	820-6562-03	DECAL #3, BBH RAMP UNDER	1
27	820-6562-04	DECAL #4, BBH RAMP UNDER	1
28	820-6562-05	DECAL #5, BBH RAMP UNDER	1
29	820-6562-06	DECAL #6, BBH RAMP UNDER	1
30	820-6562-07	DECAL #7, BBH RAMP UNDER	1
31	820-6562-08	DECAL #8, BBH RAMP UNDER	1
32	830-6103-32	BUTYRATE #32, BIG BUCK HUNTER	1
33	254-5000-11	SPACER - 7/8" GRAY	1
34	237-5510-00	SCREW, 6-32 X 1-1/2" PPH	1
35	242-5001-00	#6 WASHER	1



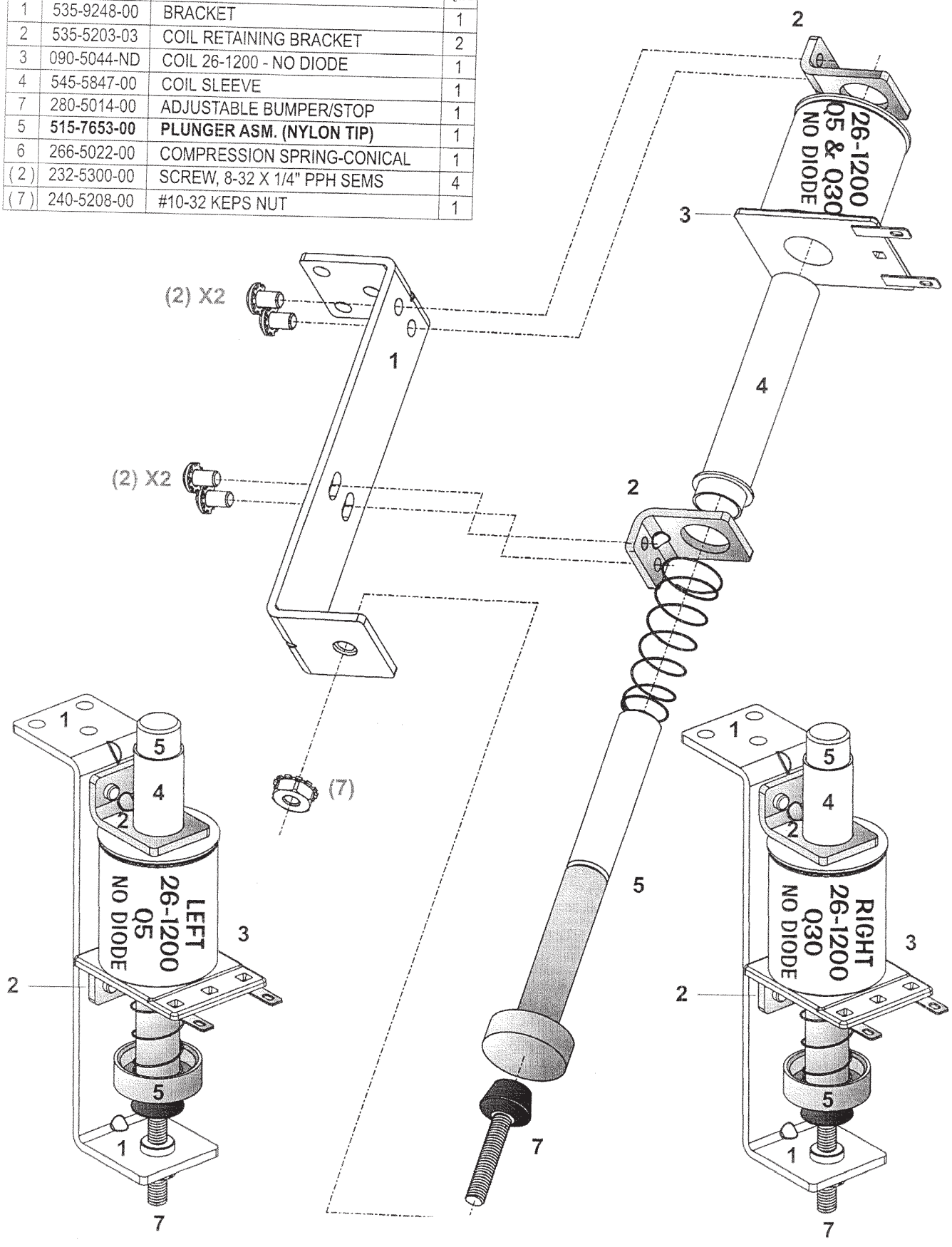
ASSEMBLY, PLASTIC RAMP, BIG BUCK

500-7167-00

124

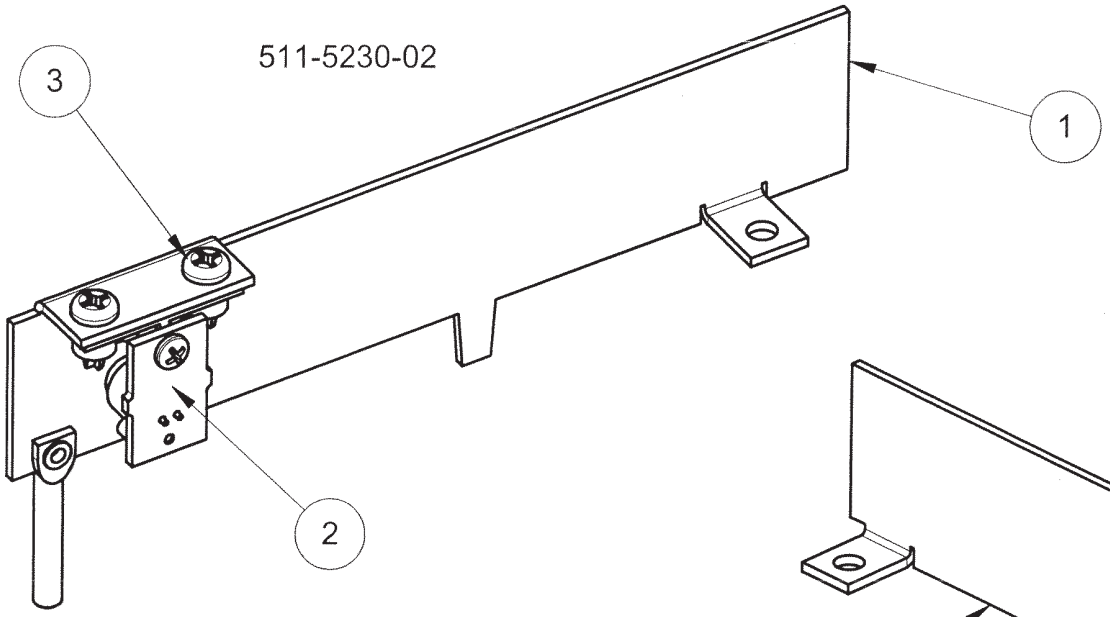
Up/Down Post (Ball Deflector) Assemblies, 500-7081-00 (Qty. 2) (Items 1-7)

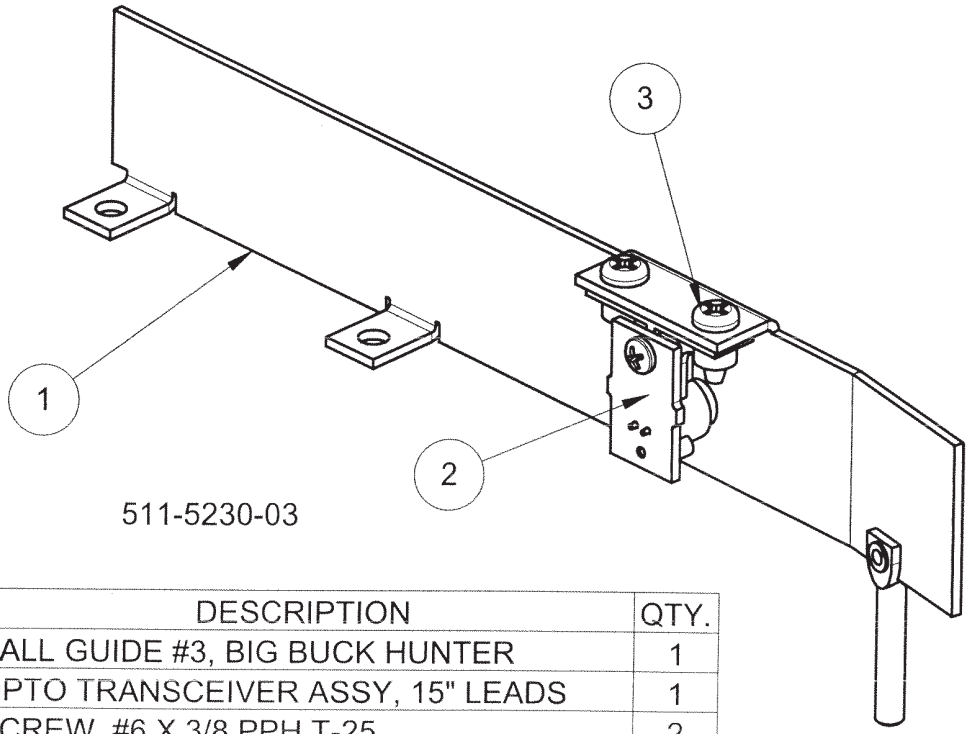
NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-9248-00	BRACKET	1
2	535-5203-03	COIL RETAINING BRACKET	2
3	090-5044-ND	COIL 26-1200 - NO DIODE	1
4	545-5847-00	COIL SLEEVE	1
7	280-5014-00	ADJUSTABLE BUMPER/STOP	1
5	**515-7653-00**	**PLUNGER ASM. (NYLON TIP)**	1
6	266-5022-00	COMPRESSION SPRING-CONICAL	1
(2)	232-5300-00	SCREW, 8-32 X 1/4" PPH SEMS	4
(7)	240-5208-00	#10-32 KEPS NUT	1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0317-02	BALL GUIDE #2, BIG BUCK HUNTER	1
2	500-6775-01	OPTO TRANSCEIVER ASSY, 15" LEADS	1
3	237-5880-00	SCREW, #6 X 3/8 PPH T-25	2

511-5230-02

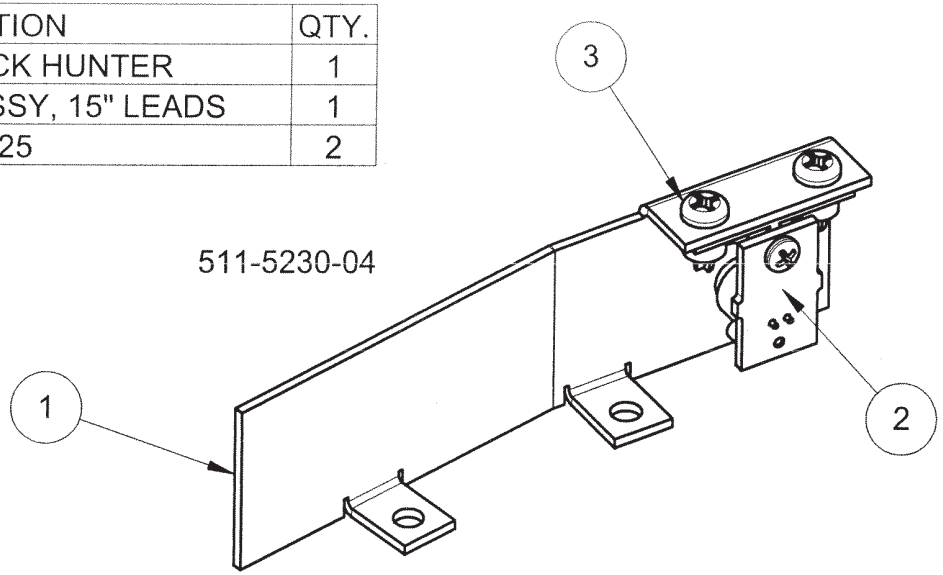




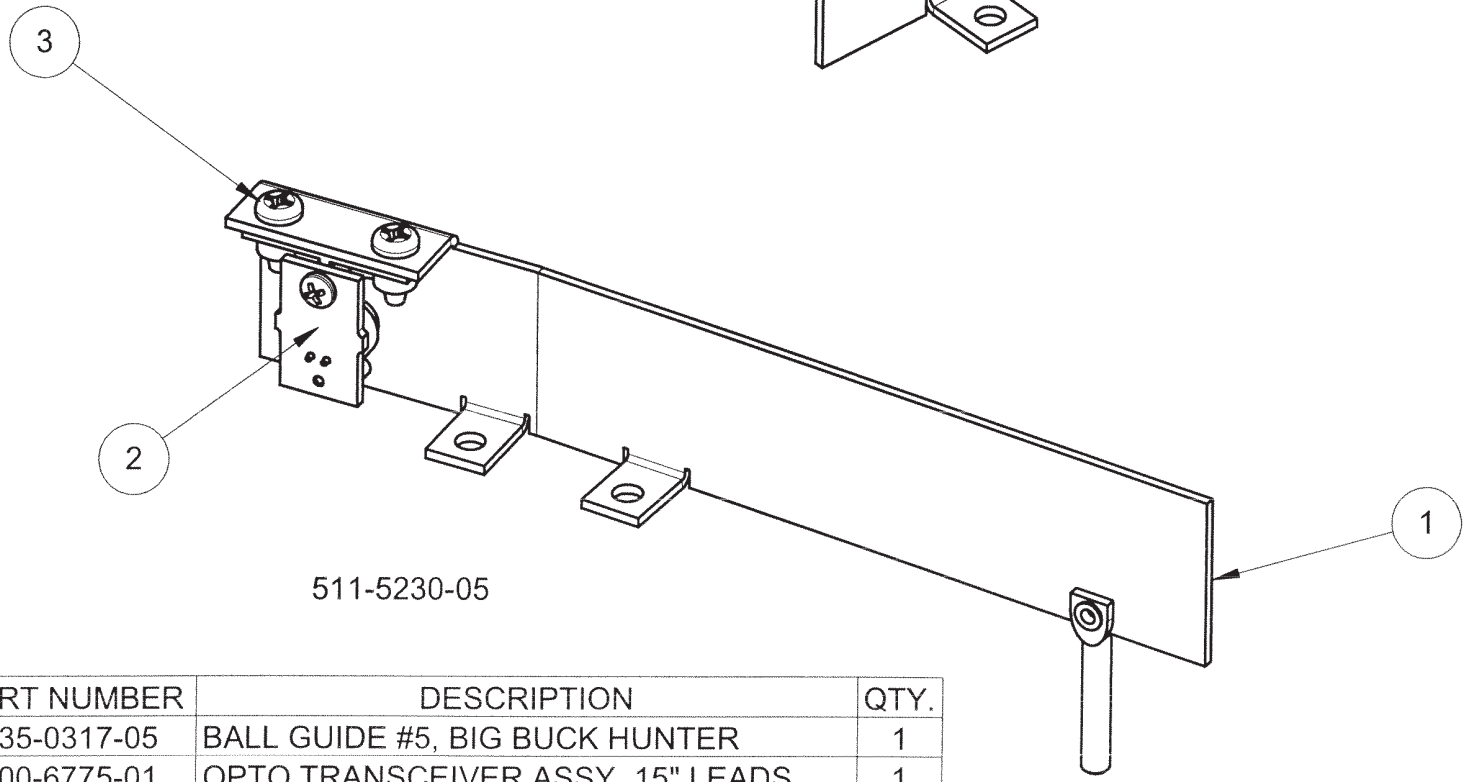
511-5230-03

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0317-03	BALL GUIDE #3, BIG BUCK HUNTER	1
2	500-6775-01	OPTO TRANSCEIVER ASSY, 15" LEADS	1
3	237-5880-00	SCREW, #6 X 3/8 PPH T-25	2

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0317-04	BALL GUIDE #4, BIG BUCK HUNTER	1
2	500-6775-01	OPTO TRANSCEIVER ASSY, 15" LEADS	1
3	237-5880-00	SCREW, #6 X 3/8 PPH T-25	2



511-5230-04



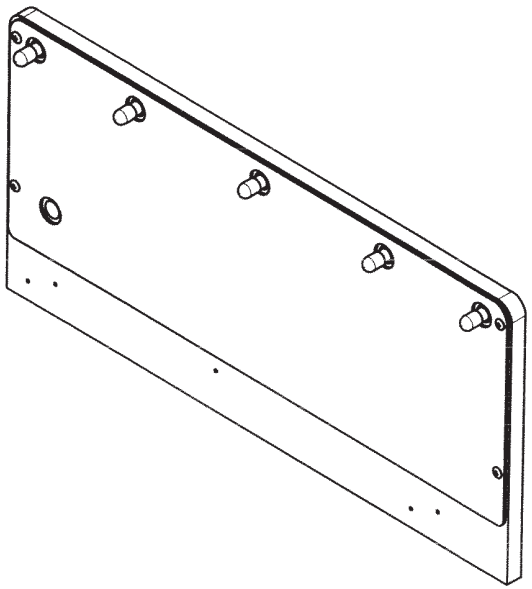
511-5230-05

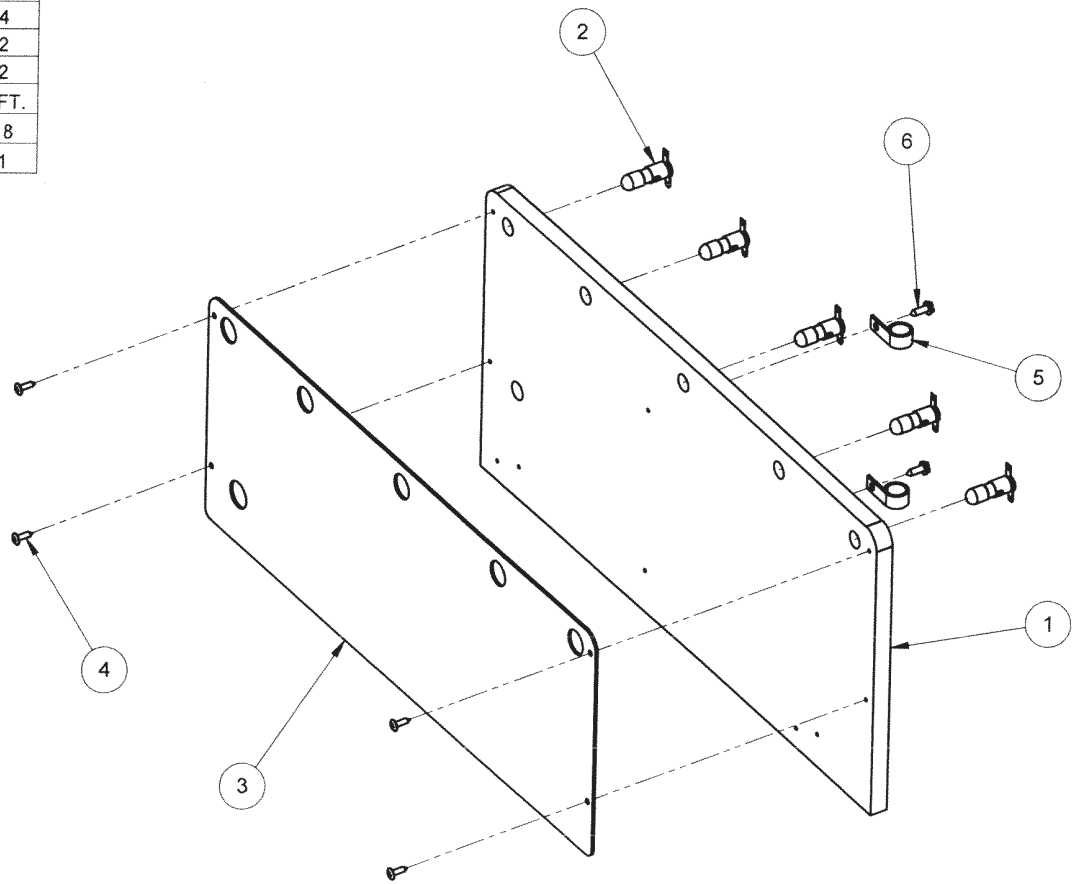
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	535-0317-05	BALL GUIDE #5, BIG BUCK HUNTER	1
2	500-6775-01	OPTO TRANSCEIVER ASSY, 15" LEADS	1
3	237-5880-00	SCREW, #6 X 3/8 PPH T-25	2

ITEM #	PART NUMBER	DESCRIPTION	QTY.
1	525-5690-00	BACK PANEL, BIG BUCK HUNTER	1
2	519-5000-00-HF	SOCKET & BULB ASSY, CLEAR	5
3	830-6101-10	BUTYRATE #10, BACK PANEL, BBH	1
4	237-5809-00	SCREW, #6 X 1/2" PTH A	4
5	040-5000-06	1/2" CABLE CLAMP	2
6	234-5101-00	SCREW, #8 X 1/2" SLT HWH AB ZINC	2
97*	600-5003-00	BRAIDED WIRE - 20GA.	3 FT.
98*	631-5000-00	STAPLE - 5/16	18
99*	036-5546-04-B2	BACK PANEL CABLE ASSEMBLY	1

* ITEM NOT SHOWN

BACK PANEL ASSEMBLY, BBH
500-7164-00





B25

Optional Kits available through your Distributor:

Pinball Location Maintenance Standard Kit (for Big Buck Pinball) 502-6002-B2

Standard Kit includes : *8 oz. Novus Wax #2 Fine (Red) (**675-0003-01**), Cloth, Rubber Rings (used above playfield), Bulbs (Bulb quantities vary and is limited to 25 per type), Fuses (1/per type) and 4 Pinballs.* ***Note:*** *Quanties, sizes and contents subject to change without notice.*

Pinball Location Maintenance Deluxe Kit (for Big Buck Pinball) 502-6003-B2

Deluxe Kit includes : *Pinball Location Maintenance Standard Kit as described above plus a quantity of Flipper Rebuild Kits.* ***Note:*** *Quantity varies which equals the same quantity of flippers used in this game.*

▲ THIS GAME KIT INCLUDES (2) FLIPPER REBUILD KITS ▲

Plastics*Kit (for Big Buck Pinball) 803-5000-B2

Plastics Kit includes: *Plastic Sets (830-6103XX)*

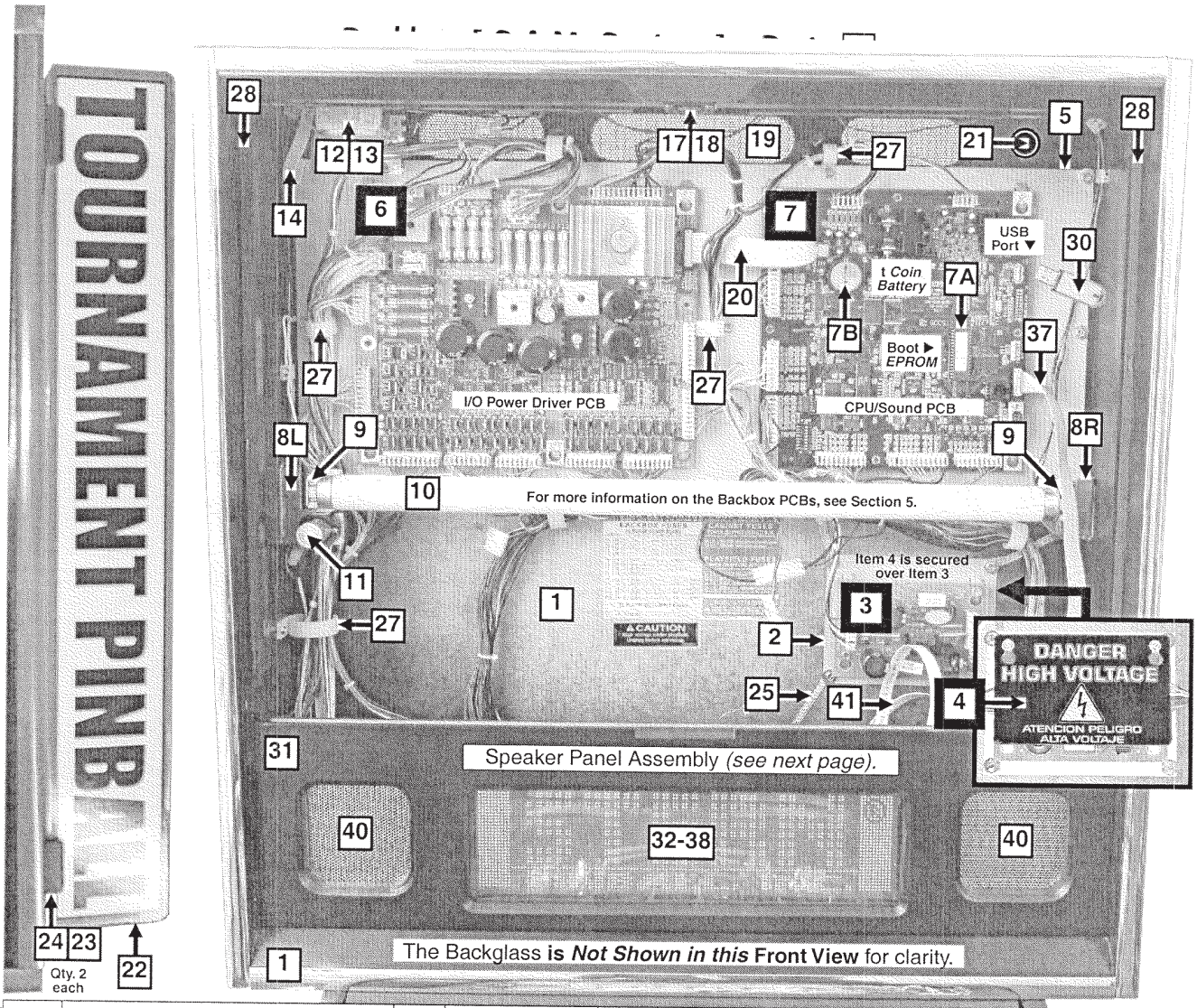
Decals*Kit (for Big Buck Pinball) 802-5000-B2

Decals Kit includes: *Decal Set (820-6558-XX)*

Mylar*Kit (for Big Buck Pinball) 802-5001-B2

Mylar Kit includes: *Full Mylar (820-5999-B2)*

Attention: *No individual Plastic or Decal can be ordered separately, unless noted otherwise. Plastics & Decals are subject to change without notice during and / or after production. Key Fobs subject to availability and may or may not be included in the plastic set. All designs, shapes & pieces used subject to change without notice. Kit contents subject to change. Service Bulletin(s) will announce any critical changes, if warranted. The last 2-digits shown on plastics or decals are for reference only.*



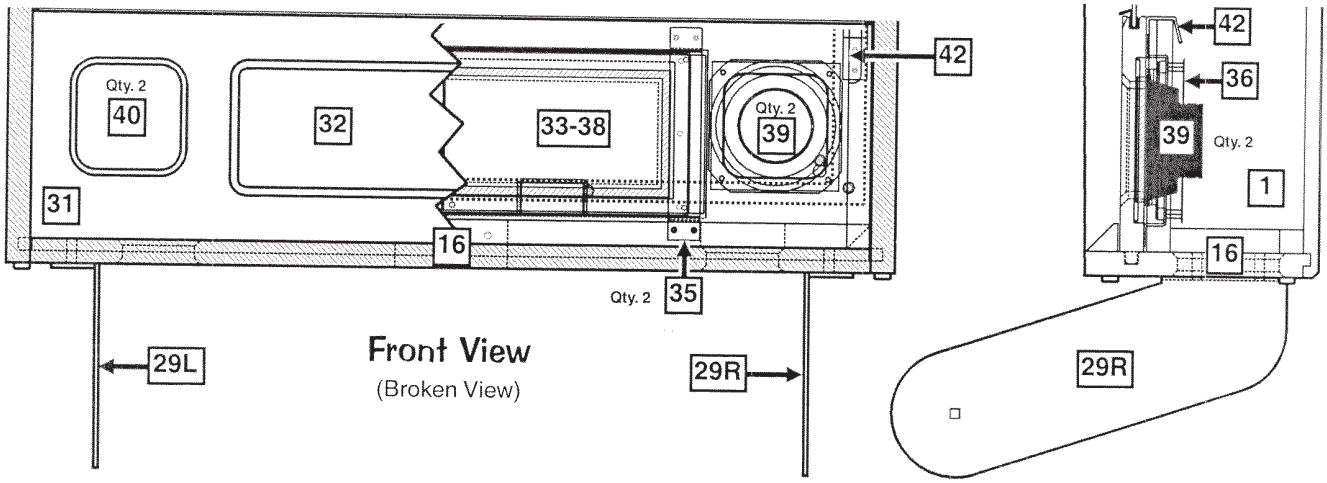
Parts Identification

Nr.	BACKBOX PARTS	QTY.	SPI PART Nr.
1	Backbox Big Buck™ (No Parts)	1	525-5631-17-B2
	Item 1 Note: Chrome T-Molding is installed and cannot be ordered separately. Fuse Description (**820-6384-00**) **and** High Voltage Caution (uL) (**820-6082-01 & -02**) Decals.		
2	PCB Metal Mounting Plate [Display]	1	535-9769-00
3	Display Power Supply PCB	1	**520-5138-00**
	Item 3 is secured to @ bottom by: #8-32 X 3/8" SHWH Swg. (Zinc) (Qty. 2) (237-5975-00)		
4	Plastic Cover [**DANGER HIGH VOLTAGE**]	1	830-6053-00
	Items 3 & 4 are secured to @ top by: 1-1/4" X 3/8" Plastic Spacer Gray (Qty. 2) (254-5000-05) **and** #8-32 X 1-3/4" SHWH Ser. (Zinc) (Qty. 2) (237-5975-28)		
5	PCB Metal Mounting Plate [I/O+CPU]	1	535-9664-00
	Items 2 & 5 are secured to Item 1 by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/hole) (234-5101-00) **and** #10 Washer 7/32" I.D. X .5" O.D. X 1/16" Thick (Qty. 1/hole) (242-5003-00) *Note: Where a Wire Clamp (Item 27) is mounted, a #10 Washer is not required.*		
6	I/O Power Driver PCB [S.A.M. Sys.]	1	**520-5249-00**
7	CPU/Sound PCB [S.A.M. System]	1	**520-5246-00**
	7A: 8MB EPROM #M27C801-100F1 (**960-5016-00**) *Ordering Note: Programmed EPROM (**965-BOOT-SAM**)* **7B:** Coin Cell Battery (CR2430 3V) (**000-0644-01**) *For USB Memory Stick Information, see Item **30** on the next page.*		
	Items 6 & 7 are secured to Item 5 by: #8-32 X 3/8" SHWH Swage (Zinc) (Qty. 10) (237-5975-00) **and** 1/4" Slf. Rtn. Spacer White (Qty. 5 [I/O] / Qty. 4 [CPU]) (254-5007-05)		
8L	Fluorescent Light Bracket *(Left Style)*	1	535-7739-00
8R	Fluorescent Light Brckt. *(Right Style)*	1	535-7739-01
	Items 8L & 8R are secured to Item 1 by: #10-24 X 1-1/4" Carriage Bolt Square Neck (Qty. 2/per) (231-5012-00), #10-24 Keps Nut (Qty. 2/per) (240-5207-00) **and** 3/4" X 3" Reinforced Strapping Tape (Qty. 1, sold in 12" length only) (626-5040-00)		
9	Fluorescent Lamp Holder (Socket)	2	077-5214-**01**
	Item 9 is secured to Items 8L *and* 8R by: #6-32 X 5/8" PPH MS (Sems) Zinc (Qty. 1/per) (232-5203-00) Lock-In Fluor. Bulb with Yellow Socket Clip (Qty. 1/per) (**545-6271-00**)		
10	Fluorescent Tube 24" (F18T8CW)	1	165-5061-00

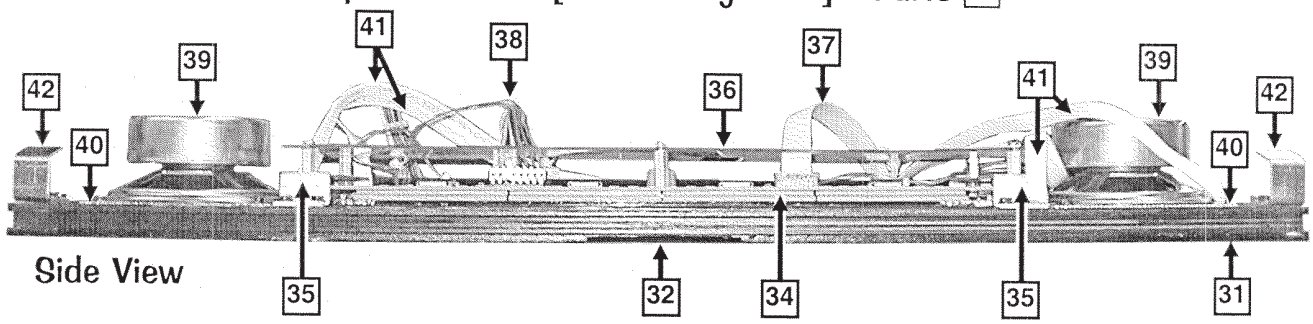
Nr.	BACKBOX PARTS	QTY.	SPI PART Nr.
11	Starter - Fluorescent (FS2 Light)	1	165-5011-01
	Starter Base *(with leads)* [on Item 8L]	1	077-5213-00
	Item 11 is secured to Item 8L by: #4-40 X 1/2" PPH MS (Sems) Zc. (Qty. 2) (237-5813-00)		
12	Ballast Mounting Plate	1	535-8657-00
13	Ballast *CU452-W 1/2" Core 120v 60 Hz 13W*	1	010-5015-00
	Items 12 & 13 are secured to Item 1 by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2) (234-5101-00) >>> CAUTION - VERY HOT" Decal (820-6266-00) ***EU / UK Only :*** *Ballast, 5/8" Core 50/60 Hz (010-5015-01)*		
14	Ground Strap (5")	1	600-5006-05
15*	Roto Lock Male *(on Cabinet)*	1	355-5006-01
16	Roto Lock Female *(R2-0002-02)*	1	355-5006-02
	Item 16 is secured by: #10-24 X 1-3/4" CBSN (231-5022-00), #10-24 Keps Nut (Qty. 2) (240-5207-00), #10-24 X 2" CBSN (231-5045-00) **and** #10 Washer 7/32" I.D. X .5" O.D. X 1/16" (Qty. 5) (242-5003-00); *See opposite next page.*		
17	Lock Mounting Plate	1	535-0072-00
18	Lock 5/8" Barrel, 3/4"ø, 1.5" Flat Cam	1	355-5055-00
	Items 17 & 18 are secured by: #8 X 1/2" TP Torx T20 Black (Qty. 2) (237-6173-05)		
19	Back Vent Grill 2-1/2" X 18"	1	545-5072-02
20	Ribbon Cable, 20-Pin (3.5")	1	036-5000-350
	***Item 20 connects the** I/O Pwr. Drvr. PCB to the CPU/Sound PCB; For 14-Pin see next page.*		
21	Button Hole Plug (Blk) (**Happ #52-6214-00**)	1	500-6566-00
	Item 21** plugs the Access Hole required if using optional **BETAbrite Sign** or **Data cables.		
22	Header Sign **TOURNAMENT PINBALL**		545-6133-00
23	Bracket, Tournament Sign (Black)		535-0081-02
	Item 22 is mountied to item 23 with #8-32 x 3/8 PPA screw (Qty 2/per) (232-5303-01) & #8-32 Nylock Nut (Qty 2/per) (240-5102-00). Item 23 is secured to Item 1 by: #8 X 5/8" PPH (Qty. 2/per) (232-5101-01)		

PARTS TABLE & VIEWS CONTINUED ON THE NEXT PAGE. ▶

Backbox [S.A.M. System] - Parts



Speaker Panel [S.A.M. System] - Parts



Nr.	BACKBOX PARTS	QTY.	SPI PART Nr.
	◄ *PARTS TABLE & VIEWS CONTINUED FROM THE PREVIOUS PAGE.*		
25	Braided Wire (1-1/2 Feet)	1	600-5001-00
	Item 25 is secured by: Staple 5/16" (Qty. 23) (631-5000-00)		
26*	Zip Cable Tie (Screw Down Style)	4	040-5005-00
	Item 26 is secured @ inside bot. by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00)		
27	Clamps [Multiple Sizes]	32	040-5000-XX
	Item 27 secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00) ***For the following sizes, replace** -XX **with:*** **.1/4"** Double = -23 (Qty. 5); **1/2"** Single = -06 (Qty. 3); **3/4"** Single = -08 (Qty. 4); **1"** Single = -09 (Qty. 1); **1-1/4"** Double = -30 (Qty. 1)		
28	Foam 3/16" Thick X 1/4" Wide X 12"	6	626-5026-00
	Above Item 28 is self-adhesive. *17.5" strip on each side. Sold in 12" Lengths only.*		
29L	Pivot Hinge *(Left Style)*	1	535-7999-00
29R	Pivot Hinge *(Right Style)*	1	535-7999-01
	Items 29L-29R are secured to Backbox by: 1/4"-20 X 1-1/4" C.B. Sq. Neck (Qty. 4) (231-5003-00) **and** 1/4"-20 Flange Nut (Qty. 4) (240-5300-00) **Items 29L-29R are secured to Cabinet by:** Spacer Hex Nut 1/2" O.D. - 1/4-20 X 1/2" TD (Black) (Qty. 1/per) (254-5042-00), Nylon Spacer (Black) (Qty. 1/per) (242-5084-00), 1/4-20 X 1/2" Carriage Bolt Square Neck (Black) (Qty. 1/per) (231-5072-00) **and** Washer 1" O.D. X 1/2" I.D. X 1/16" (Black) (Qty. 1/per side, *only if required*) (242-5087-00)		
30*	Memory Stick USB 1.1+ [Generic] 64MB		970-0064-00
	Memory Stick USB 1.1+ [Generic] 128MB		970-0128-00
	Item 30 was not included with your game. Read the inside cover or go on-line for more info. To order with the latest game code copied onto it, add -A3 to the Part Nr. (**970-0128-00**-A3). File(s) can be downloaded from our website *(Files are 25MB or larger, DSL or Fast Modem recommended).* Not all manufacturers of Memory Sticks are compatible with our system. Test it out, if it doesn't work properly, return your purchase and order the memory stick through you local pinball distributor *(Stern Pinball Memory Sticks guaranteed compatible).*		

(ASM. REF. 505-6002-A3-A3, Items 1-42 Only, [29-30 not included in assembly])

Take Note:

* An asterisk (*) indicates item(s) are not noted in the pictorials.

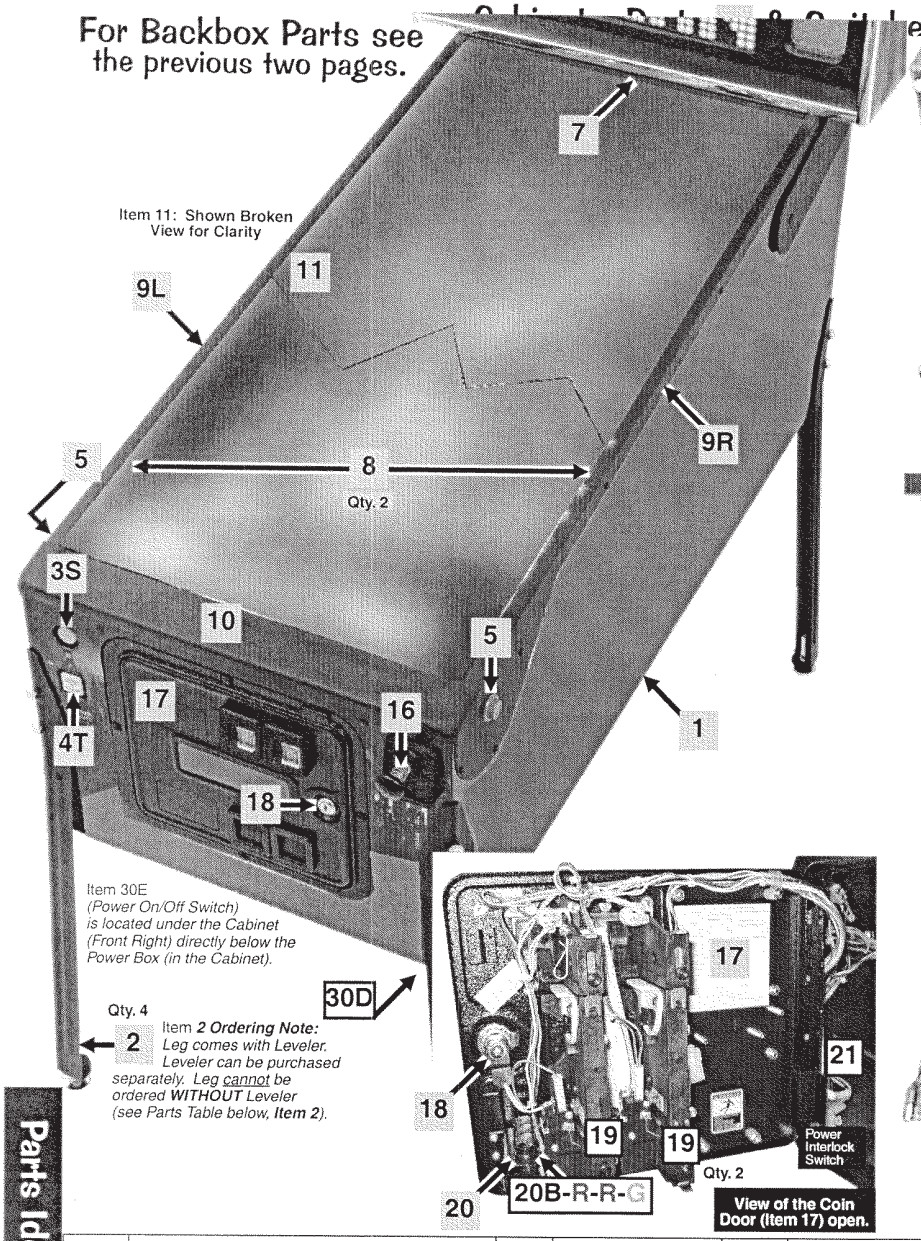
Nr.	SPEAKER PANEL PARTS	QTY.	SPI PART Nr.
31	Speaker Panel (Black Wood)	1	525-5515-00
32	Plastic Shield (Display Front Cover)	1	545-5884-00
	Item 33 is secured to inside Item 31 by: #6 X 3/8" SHWH AB (Zinc) (Qty. 8) (234-5000-00)		
33*	Foam 3/16" Thick X 1/4" Wide X 12"	6	626-5026-00
	Above Item 33 is self-adhesive. *Located between Items 32-34. Sold in 12" Lengths only.*		
34	128 X 32 Dot Matrix Display PCB	1	520-5052-00
	// EURO ONLY RoHS // 128 X 32 DM CES PCB		520-5052-05
	// EURO ONLY RoHS // Dot Matrix Bezel		545-6281-00
	Item 34 is secured to Item 35 by ***(at corners):*** 3/16" X 3/8" Spacer Gray (Qty. 4) (254-5000-18) **and** #6-32 X 1/2" SHWH Swage (Serr) Zinc (Qty. 4) (237-5976-03)		
35	Dot Matrix Display Mounting Bracket	2	535-8368-01
	Item 35 is secured to Item 31 by: #8 X 1/2" SHWH AB (Zinc) (Qty. 4/per) (234-5101-00)		
36	Plastic Shield (Display Back Cover)	1	830-6040-00
	Item 36 is secured to Item 34 by: 1/2" X 1/4" Hex Spacer #6-32 Tap (Qty. 4) (254-5008-03), 3/4" X 1/4" Hex Spacer #6-32 Tap (Qty. 2) (254-5008-04), #6-32 X 1/4" PPH MS (Sems) Zinc (Qty. 2) (232-5200-00) **and** #6-32 X 3/8" PPH (Qty. 6) (232-5201-00)		
37	Ribbon Cable, 14-Pin (33")	1	036-5260-33
	// EURO ONLY RoHS // LED Ribbon Cable Filter PCB		520-5259-00
	***Item 37 (14-Pin) connects the** 128 X 32 Dot Matrix Display PCB to the CPU/Sound PCB.*		
38	Display Cable *(Wiring Harness)*	1	036-5454-01
	// EURO ONLY RoHS // LED Display Adapter Harness		036-5520-00
39	Speaker (Shld.) 4" 8Ω #MG ELE 4060SH	2	031-5004-02
40	Speaker Grill *(Black w/Artwork)*	2	535-8081-B2
	Items 39-40 are secured by: #8 X 1/2" SHWH AB (Black) (Qty. 4/per) (234-5101-01)		
41	Ground Strap (25") **[2 per : Items 35 & 39]**	4	600-5006-25
42	Speaker Panel Hook Bracket	2	535-7009-02
	Item 42 is secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2/per) (234-5101-00)		

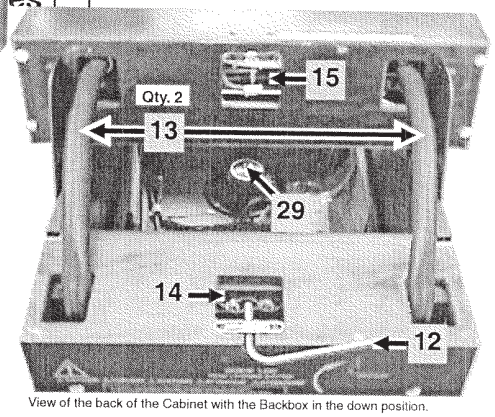
(ASM. REF. 515-6888-05, Items 31-42 Only [includes wiring])

Nr.	BACKGLASS PARTS	QTY.	SPI PART Nr.
i*	Glass (Tempered) 25.906" X 19.187" X .125"	1	660-5038-02
ii*	Big Buck™ Film Art (#B2)	1	830-52B2-00
iii*	Top Plastic Channel - 26"	1	545-5018-15
iv*	Bottom Plastic Lift Channel - 26"	1	545-6313-01
v*	Plastic Edging (Left/Right) - 18-1/8"	2	545-5018-14
	Items i-v are secured to Item i by: 3M Tape (Double-Sided), 12" (Qty. 1) (626-5080-00) ***Note:** Only 6" required, sold in 12" lengths only.*		

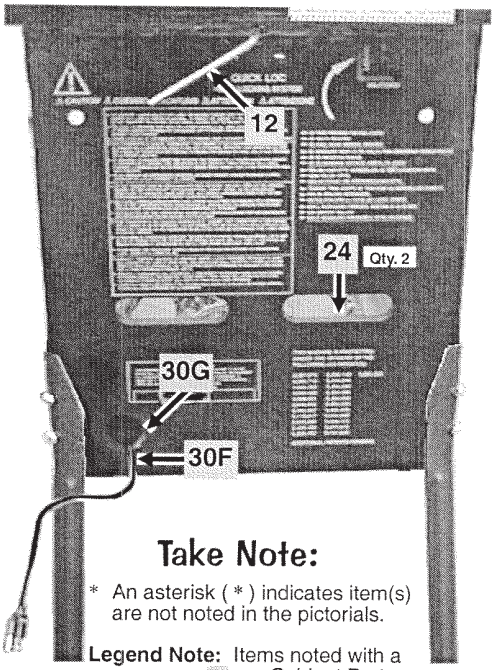
(ASM. REF. 515-5450-00-A9 , Items i-v)

For Backbox Parts see the previous two pages.





View of the back of the Cabinet with the Backbox in the down position.



View of the Coin Door (Item 17) open.

Take Note:

* An asterisk (*) indicates item(s) are not noted in the pictorials.

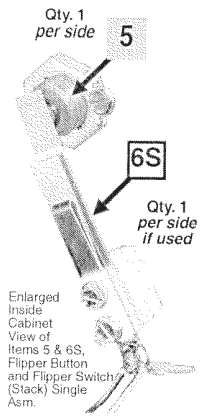
Legend Note: Items noted with a cyan square are Cabinet Parts. Items noted with a white square ☐ are Switches.

Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
1	Screened Cabinet BBH™ (No Parts)		525-5395-15P-B2
2	Black Leg with Leveler Asm.	4	500-5921-50
	Item 2 is secured by: Leg Bolt Back Plate (**535-5703-00**) **and** Leg Bolt 3/8" X 16 X 2-1/2" Hex 5/8" Hd. (2/per) (231-5001-01) *Leg Leveler **ONLY** (3/8"-16 X 3") (500-5017-00).*		
3S	**Start Button** (Green Round) with Sw. + Lamp	1	500-6388-44-TL
4T	**Tournament Button** (Yel. Sq.), w/Sw. + Lamp	1	500-6587-06-TL
	Item 3S & 4T includes the Switch & Lamp (No Wiring; desolder old wiring where required). *Switch or Bulb replacement:* ↻ ***TWIST*** ↺ ***LOCK (-TL) >> not snap-in <<*** *Assembly Parts Included :* Microswitch (**180-5174-00**); #555 Wedge Base Clear Bulb (165-5002-00); *If **4T** is not desired, use optional Button Plug Black (500-6566-00). Requires 3-Lug Terminal Strip (055-5204-03) and Diodes, 1N4004 (Qty. 2) (112-5003-00) inside cabinet under button(s) for **Lamp Operation** (Diode for Switch, located on Switch.)*		
5	**Flipper Button** (Red) Assembly (No Switch)	2	500-5026-32
	Item 5 is secured by: Pal Nut for Flipper Button (Metal) (Qty. 2/per) (240-5003-01) ***Pal Nut inside cabinet secured by:*** #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00) and Washer (Zinc), .187" ID X .875" OD X .048" Thick (Qty. 1/per) (242-5059-00)		
6S	Flipper Switch Single Assembly	2	500-6889-01
	Assembly Parts Included : Flipper Switch Stack Single *(Paliney Contact)* (**180-5160-01**) and Capacitor - Ceramic .05 Mfd 25 volt (**130-5001-00**) **Item 6S/6D are secured to Cab. by:** #6 X 1-1/4 SHWH AB (Zinc) (Qty. 2/per) (237-5959-00)		
6D	Flipper Switch Double Assembly	0	500-6890-01
	Assembly Parts Included : Flipper Switch Stack Double *(Paliney Contact)* (**180-5164-01**) and Capacitor - Ceramic .05 Mfd 25 volt (**130-5001-00**) **Item 6S/6D are secured to Cab. by:** #6 X 1-1/4 SHWH AB (Zinc) (Qty. 2/per) (237-5959-00)		

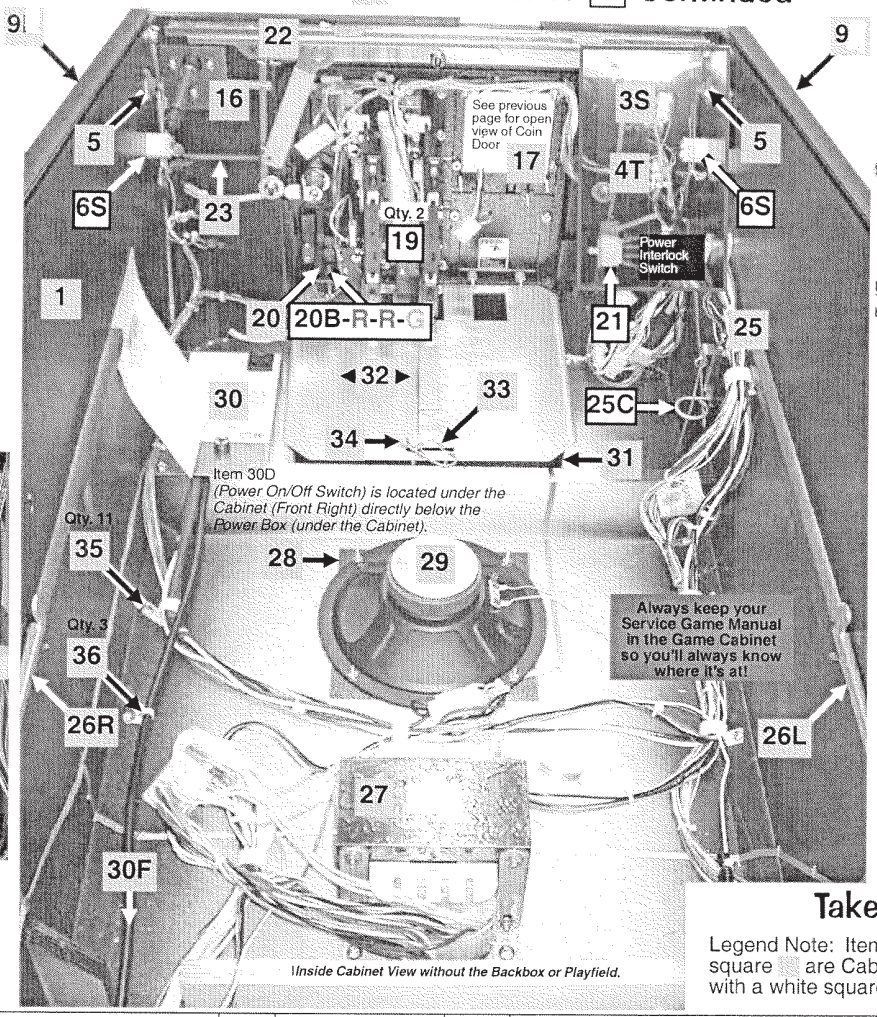
Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
7	Rear Glass Channel 20-3/8" Length	1	545-5038-00
8	Plastic Channel 42-5/8" Lg. (Left/Rt.)	2	545-5017-00
9L	Side Armor (Left) W/O Button Guard	1	535-7297-02
9R	Side Armor (Right) W/O Button Guard	1	535-7297-02
	Items 9L & 9R are secured @ front & side by: Pem Stud 1/4 X 1" Flange Head Black (Qty. 1/per) (237-6116-01), 1/4-20 Flange Nut (Qty. 1/per) (240-5300-00) **and** #8 X 1/2" T20 Tamper Proof Black (Qty. 5/per) (237-6173-05); **@ rear (backbox) by:** #10-24 X 1" Sq. Neck Carrg. Bolt Black (Qty. 1/per) (231-5021-00) **and** #10-24 Hex Nut (Qty. 1/per) (240-5202-00)		
10	Front Molding (Black) < NO BUTTON HOLE >	1	515-7495-00
	Item 10 includes: Self-Adhesive Foam Rubber 3/8" X 3/16" X 20-3/8" (3') (626-5001-00) *Items **10** works with Item **22 (next page)** ONLY.*		
11	Playfield Glass (Tempered) 21" X 43" X 3/16"	1	660-5001-00
12	Hex Key Allen Wrench 5/16"	1	777-0001-00
13	Corrugated Tubing Black 1"ø X 2.6' Lg.	1	605-5008-03
	***Above Item 13** covers the Cable Wiring Harnesses going into the Backbox from the Cabinet.*		
14	Roto Lock Male (R2-0055-02)	1	355-5006-01
	Item 14 is secured by: #10-24 X 1-3/4" Carriage Bolt Square Neck (Qty. 2) (231-5022-00), #10-24 Nylon Stop Nut (Qty. 2) (240-5206-00) **and** #10 Washer, 7/32" ID X 1/2" OD X 1/16" Thick (Qty. 2) (242-5003-00)		
15	Roto Lock Female *(on Backbox)*	1	*355-5006-02*
16	Ball Shooter (Plunger) Assembly	1	500-6146-00-04

PARTS TABLE & VIEWS CONTINUED ON THE NEXT PAGE. ▶

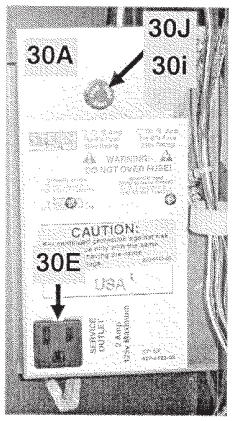
Cabinet - Parts ▢ & Switches ☐ Continued



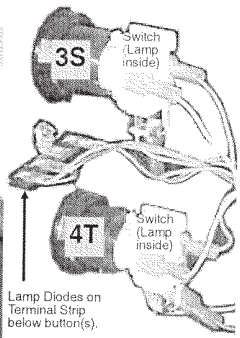
Enlarged Inside Cabinet View of Items 5 & 6S, Flipper Button and Flipper Switch (Stack) Single Asm.



Inside Cabinet View without the Backbox or Playfield.

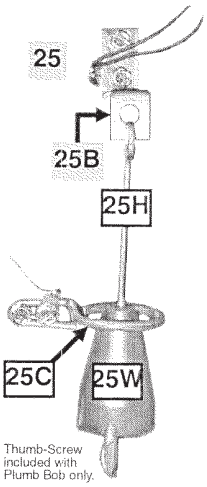


Enlarged Inside Cabinet View of Items 30, Power Box (30A), Service Outlet (30E), Fuse (30i) and Fuse Holder (30J).



Lamp Diodes on Terminal Strip below button(s).

Enlarged Inside Cabinet View of Items 3S, 4T and 25 (25B, 25C, 25H & 25W), Plumb Bob Tilt Switch.



Thumb-Screw included with Plumb Bob only.

Take Note:

Legend Note: Items noted with a cyan square ▢ are Cabinet Parts. Items noted with a white square ☐ are Switches.

Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
	◄ *PARTS TABLE & VIEWS CONTINUED FROM THE PREVIOUS PAGE.*		
17	Coin Door 2-Cht $V Up-Stk. 4-Button Bracket **Item 17 is secured by:** 1/4"-20 X 1-1/4" Carriage Bolt Square Neck (Qty. 4) (231-5003-00) 1/4"-20 Flange Nut (Qty. 4) (240-5300-00) **and** Fend Washer 1/4" I.D. X 1" O.D. (Qty. 3) (242-5009-00) ***Note:*** *For Coin Door other than USA call Technical Support for SPI Part Nr.*	1	501-5018-172
18	Lock 5/8" Barrel, 3/4, Flt. Cam	1	355-5055-00
19	Coin Door Switch (USA) (Happ) ALT. SW.: 19C: Coin Door Switch (USA) (Coin Control) (**180-5024-00**) ALT. SW.: 19J: Coin Door Switch (¥ Japan) (**180-5091-00**)	2	180-5024-01
20	4-Button Bracket *(for Service Menu Buttons)* SWITCH: 20B: Push-Button Service Switch (**Black**) (**180-5192-00**) SWITCH: 20R: Push-Button Service Switch (Red) (Qty. 2) (**180-5192-02**) SWITCH: 20G: Push-Button Service Switch ( ) (**180-5192-04**) ***Ordering Note:*** *Securing hardware for switches included. Decal in kit sold separately.*	1	535-6860-04
21	Power Interlock-Memory Protect Switch Asm. ***Assembly Parts Included*** : Mounting Bracket (**535-9794-00**), Power Interlock (Playfield) Switch (**180-5136-00**) **and secured by:** #8 X 1/2" SHWH AB (Zinc) (Qty. 2) (234-5101-00)	1	500-5808-05
22	Front Molding Lockdown Asm. **Item 22 is secured by:** #10-24 X 1-1/4" Carr. Bolt (Qty. 2) (231-5012-00) **and** #10-24 Keps Nut (Qty. 2) (240-5207-00)	1	500-6881-00
23	Lockdown Spring *(connected to handle)* **Item 23 is secured by:** #8 X 1/2" SHWH AB (Zinc) (Qty. 1) (234-5101-00) **and** #10 Washer, 7/32" ID X 1/2" OD X 1/16" Thick (Qty. 1) (242-5003-00)	1	265-5008-00
24	Grills 2-1/2" X 18" *(on Back & Bottom)*	3	545-5072-02
25	Plumb Bob Tilt Switch *Indivual Parts Only* SWITCH: 25B: Bracket for Hanger Wire (**535-5221-00**) 25C: Contact Wire Form (**535-7563-01**) 25H: Hanger Wire (**535-5319-02**) 25W: Plumb Bob Weight (**535-5029-00**) *(includes Thumb-Screw)* **Item 25B is secured to Cabinet by:** #6 X 5/8" SHWH AB (Zinc) (Qty. 4) (234-5002-00)		***Ind. Parts Only***
26L	Slide & Pivot Support Bracket (Left)	1	535-5989-00
26R	Slide & Pivot Support Bracket (Right) **Items 26L & 26R are secured by:** #10-24 X 1-1/4" Carriage Bolt Square Neck Black (3/per) (231-5012-00) **and** #10-24 KEPS Nut (3/per) (240-5207-00)	1	535-5990-00

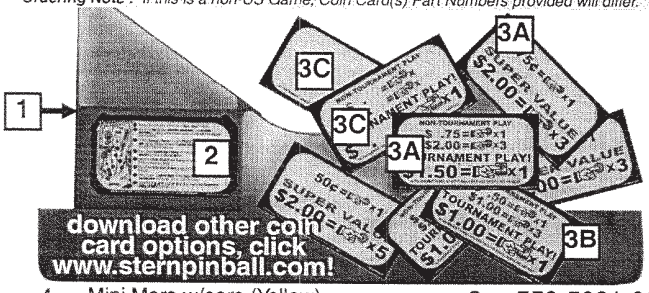
Nr.	CAB. PARTS & SWITCHES	QTY.	SPI PART Nr.
27	Transformer 5.7VAC *(with Ballast Winding)* **Item 27 is secured by:** 1/4"-20 X 5/8" PPH MS (Zinc) (Qty. 4) (237-5854-00) **and** 1/4" Split Lock Washer (Qty. 4) (244-5000-00)	1	010-5012-01
28	Woofer (Speaker) Grill 7" X 7"	1	545-5072-03
29	Woofer 8" ø Round 8010 4Ω **Items 28 & 29 are secured by:** #6-32 X 1-1/4" Fin Shank Screw (Qty. 4) (237-5883-00) **and** #6-32 Keps Nut (Qty. 4) (240-5008-00)	1	031-5007-01
30	Power Input Box Asm. + Univ. Cable **30A:** Power Box *(No Parts)* Mounting Frame (**535-5932-00**) **30B*:** Line Filter (**150-5000-00**) **30C*:** Varistor* TNR159211KM (Domestic) (**150-5001-00**) *or* Varistor TRM15G431KM (Euro) (**150-5002-00**) SWITCH: **30D:** On/Off Rocker Switch + Bracket Assembly (**515-7085-00**) ***30D incl.:*** Switch, APEM R2101C5NBB (**180-5001-03**) + Bracket (**535-8318-00**) **30E:** Service Outlet (3-Prong / US) (**180-5008-01**) / International **N/A** **30F:** Line Cord 10' ROJ 3" + Ring Terminal Asm. (**515-6566-00**) **30G:** Recessed (Black) Cup *(rear of Cabinet)* (**545-5122-00**) **30H*:** Snap Bushing 9/16" (White) (**280-5001-01**) **30i:** Fuse 8 Amp 250V Slo-Blo (Domestic) (**200-5000-05**) *or* Fuse 5 Amp 250V Slo-Blo (International) (Qty. 2) (**200-5003-00**) **30J:** Fuse Holder (**205-5001-00**)	1	515-5360-08
	Universal Cable & Jumper Caps *(all voltage variations): See the Yellow Pages, Page y 10.*		
31	Cash Box Plastic Bottom	1	545-5090-00
32	Cash Box Cover (Validator)	1	535-5013-03
33	Cash Box Lock Bracket (U-Wire) **Item 33 is secured by:** #8 X 5/8" HWH AB (Green) (Qty. 2) (234-5102-04)	1	535-7562-00
34	Large Hair-Pin Clip	1	535-7772-00
35	Clamps [Multiple Sizes] **Item 35 is secured to Item 1 by:** #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00) ***For following sizes, replace -XX with:*** 3/4" Single = -08 (Qty. 9); 1-1/2" Single = -10 (Qty. 3)	36	040-5000-XX
36	Zip Cable Tie (Screw Down Style) **Item 36 is secured by:** #8 X 1/2" SHWH AB (Zinc) (Qty. 1/per) (234-5101-00)	4	040-5005-00
37†	Meter +12VDC ***with*** *Bracket Optional*	*opt.*	G-0053-013-102
	† *Meters (Diode included) are optional and were not included in this Pinball Machine. Order without the bracket use* ***G-0053-013-102A****. More information or Qs? Call Technical Support.*		

Parts Identification

Main Playfield Top - Miscellaneous Parts and Brackets

Nr.	THE PLAYFIELD	QTY.	SPI PART Nr.
Main P/F	P/F Screened w/ Inserts & NO Parts	1	830-5100-B2
	P/F Complete w/ Inserts & ALL Parts	1	505-6004-B2-B2

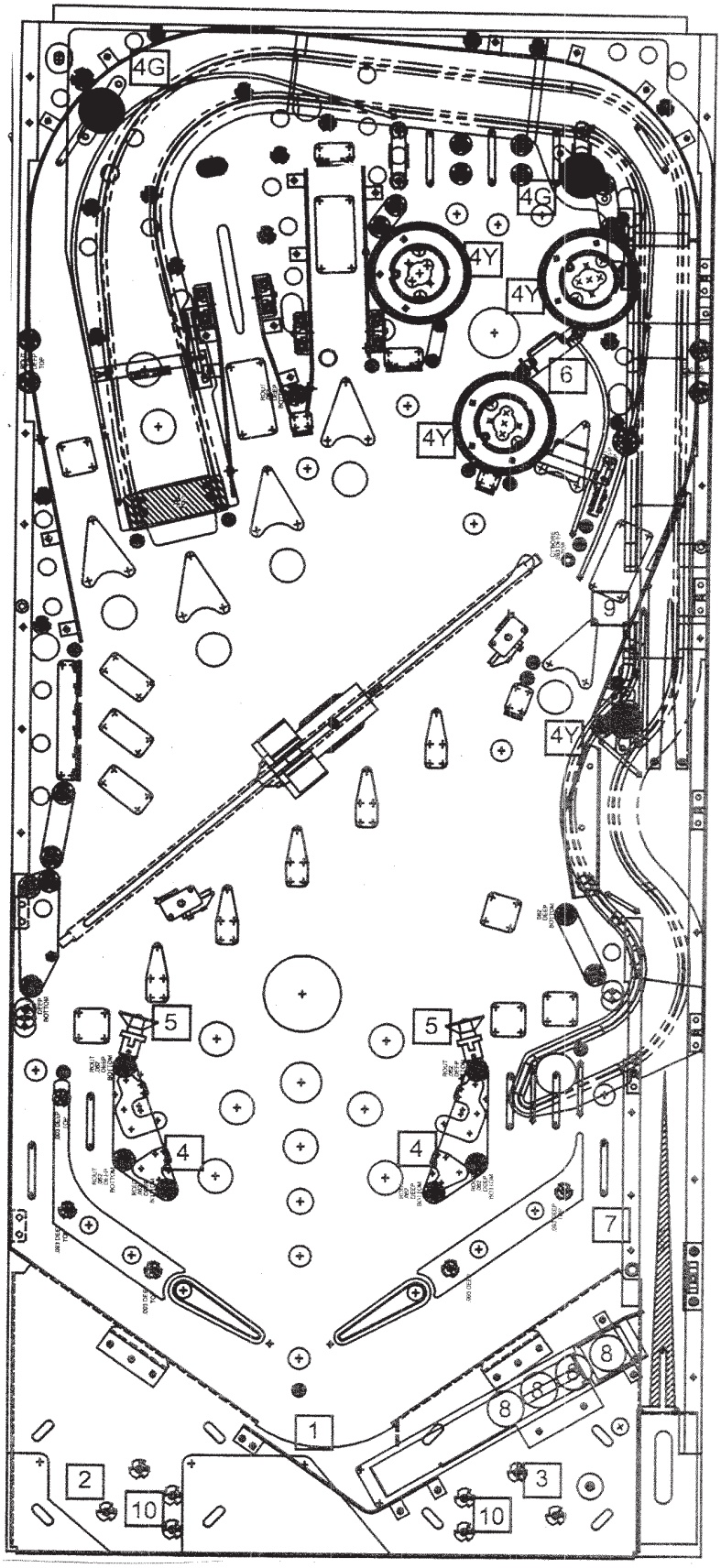
Nr.	MISC. PARTS (ABOVE)	QTY.	SPI PART Nr.
1	Arch (PLASTIC)	1	545-5995-02
	Item 1 is secured to Item 9 below by: #10-32 X 5/16" PFH U/C MS (Zinc) (Qty. 2) (237-6013-00) *Usage Note: When replacing the Arch,* order new replacement Nelson Protect Strips 7-5/8" *(not included)* (Qty. 2) (545-5212-04; use -02 for 8-9/16" size) *For Decals, see Playfield Top - Plastics Kit, Decals & Mylar Kits.*		
2	Inst. Card [Eng./Spanish] NBA™	1	755-51B2-12-Y
	Note : Visit www.sternpinball.com for a PDF copy of the Game Instruction Card which will also have any translated Instruction Cards made for this game. Find Game Link or Archives. Spanish 755-51A2-12-Y; German 755-51A2-03-Y; Italian 755-51A2-04-Y; French 755-51A2-05-Y.		
3A	Coin Card (2-Sided) USA 10 Default	1	755-5400-11-Y
3B	Coin Card (2-Sided) USA 5	1	755-5400-08-Y
3C	Coin Card (2-Sided) *Blank for Custom*	1	755-5400-04-Y
	For Coin Card views, see below or online : http://www.sternpinball.com/coinagecards.shtml		
	Ordering Note : If this is a non-US Game, Coin Card(s) Part Numbers provided will differ.		



4	Mini Mars w/ears (Yellow)	2	550-5031-06
4A	Mini Mars w/ears (Green)	2	550-5031-04
4Y	Plastic Dome Hat (yellow)	4	550-5032-06
5	Light Reflector (Silver Plst.) REF540N	4	545-5409-01
6	Gate Bracket	1	535-0339-00
	GATE	1	535-5307-03
7	Bubble Level Assembly	1	500-6815-00
	Assembly Parts Included : Level, 8mm Empire #0224 (545-6001-01) or Level Mount (545-6068-00). Flange secured by: #6-32 X 1/4" PPH MS (no Sems) Zinc (237-5500-00) and #6-32 Keps Nut (240-5008-00). Item 7 is secured to the Wood Rail by: #6 X 1-3/4" PPH AB (Zinc) (Qty. 2) (232-5009-00)		
8	Pinball (Steel) 1-1/16" ø	4	260-5000-00

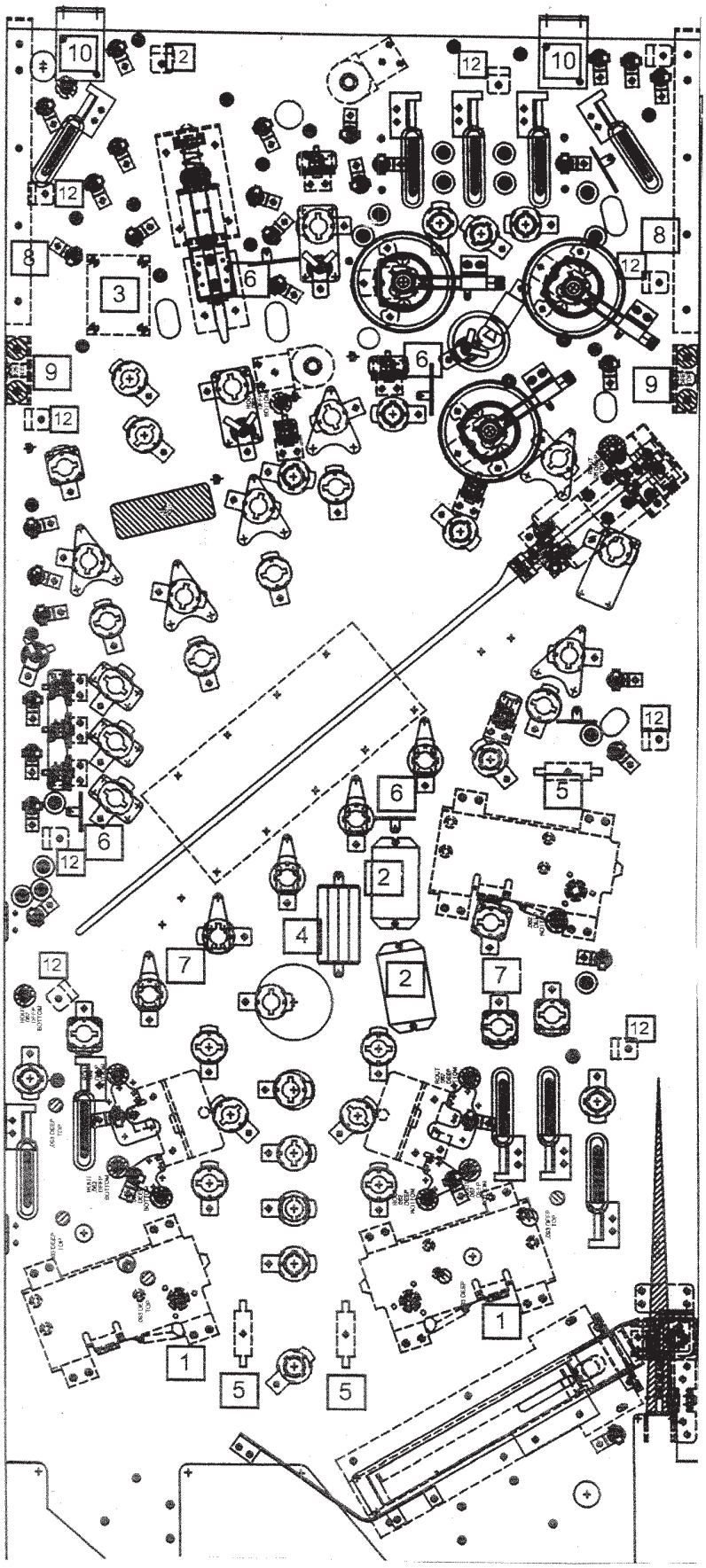
Nr.	MISC. BRACKETS (ABOVE)	QTY.	SPI PART Nr.
9	Shooter Ramp (Shooter Lane)	1	535-9881-01
10	Bracket, Playfield Hanger	2	535-8385-00
	Item 10 is secured to the Playfield (P/F) by: #8-32 X 7/8" Unslotted HWH MS Zinc (Qty. 2/per) (237-5890-00) and #8-32 T-Nut (Qty. 2/per) (240-5101-00)		
11			
12			

Nr.	MISC. PARTS	QTY.	SPI PART Nr.



Parts Identification

Main Playfield Bottom - Miscellaneous Parts ■ and Brackets ▒



Nr.	THE PLAYFIELD	QTY.	SPI PART Nr.
Main	P/F Screened w/ Inserts & NO Parts	1	830-5100-B2
P/F	P/F Complete w/ Inserts & ALL Parts	1	505-6004-B2-B2

Nr.	MISC. PARTS (BELOW)	QTY.	SPI PART Nr.
1	Insulation Fiche Paper (under Lower Flippers)	2	545-5721-00
2	Relay + Conn. Asm.	2	190-5007-00
3	PCB, OPTO Transceiver Amplifier	1	520-5239-01

Item 3 is secured by: #6 X 3/4" SHWH AB (Zinc) (Qty. 4) (234-5003-00)
Application Note : *Required for OPTO Transceiver Pairs (500-6775-01) listed on the next page (... Switches). See the Yellow Pages, PCBs, Pages y 42 – y 43.*

4	Resistor Assy See the Yellow Pages.	3	511-5223-00
5	3A 250v Slo-Blo Fuse	3	200-5000-08
	Fuse Clip Holder (Socket)	1	205-5000-01

Item 5 is secured by: #6 X 1/2" PPH AB (Qty. 1/per) (237-5805-00)
Note: *Item 5, Fuse Clip Holder (Socket) 205-5000-01 is part of a set of 12 (205-5000-12). You can order them as individuals (...-01) or a set of 12 (...-12).*

6	Diode Terminal Strip 2-Lug (810) Isolated	4	055-5203-00
6	Diode Terminal Strip 3-Lug (813) Isolated	4	055-5204-03
6	Diode Terminal Strip 5-Lug (824) Isolated	0	055-5204-05

Items 6B–6C are secured by: #6 X 3/8 HWH AB Zinc (Qty. 1-2/per) (234-5000-00)
Item 6B (Qty. 1) located in Cabinet. ***Note:*** *1N4004 Diodes (112-5003-00) are used in all Diode applications. 1N4001 Diodes can be used for Switches and/or Lamps.*

Nr.	MISC. BRACKETS (BELOW)	QTY.	SPI PART Nr.
7	Bracket, Playfield Support Slide		535-6862-05

Item 7 is secured by: #10 X 1/2" HWH A (Zinc) (Qty. 2/per) (237-5817-00), #8-32 X 5/8" SHWH Swage (Zinc) Wax (Qty. 1/per) (237-5975-03) and #8-32 T-Nut (Qty. 1/per) (240-5101-00)

8	Bracket, Edge Slide (Extended)	2	535-5988-01

Item 8 is secured by: #4 X 1/2" PFH (Zinc) (Qty. 5/per) (237-5840-00) and #8-32 T-Nut (Qty. 2/per) (240-5101-00)

9	Bracket, Pivot Pin Welded Assembly	2	500-5329-03

Item 9 is secured by: #8-32 X 5/8" SHWH Swage (Zinc) Wax (Qty. 2/per) (237-5975-03)

10	Bracket, Back Panel Mounting	2	535-8964-00

Item 10 is secured by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2/per) (234-5101-00) and #8-32 T-Nut (Qty. 2/per) (240-5101-00) ***For a 3D View :*** *See the Blue Pages, Page b 23.*

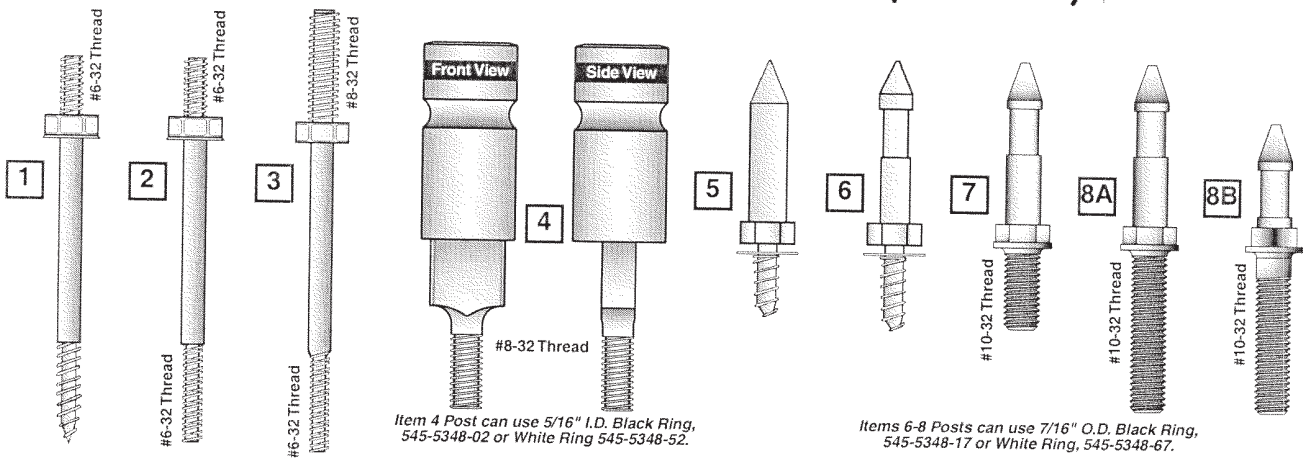
11	Bracket, Hole Protect *(center up-post)*	0	535-0289-00

Item 11 secured under the playfield by: #8 X 1/2" SHWH AB (Zinc) (Qty. 2) (234-5101-00)

12	Tie Post (White Nylon) 3-1/2"	12	545-5253-01

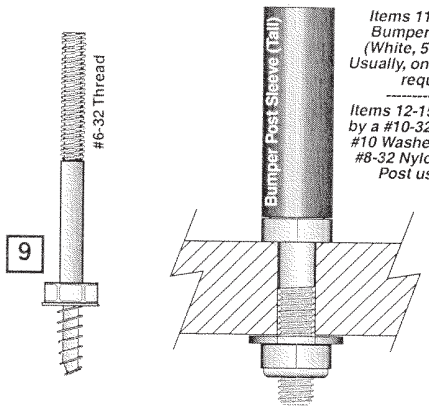
Item 12 is secured by: #6 X 5/8" SHWH AB Green (Qty. 1/per) (234-5002-00) and wiring with Cable Tie, 5-1/2" (Qty. 1/per) (040-5001-02)

Playfield - Metal Posts & Fin Shank Screws (Actual Size) †



Item 4 Post can use 5/16" I.D. Black Ring, 545-5348-02 or White Ring 545-5348-52.

Items 6-8 Posts can use 7/16" O.D. Black Ring, 545-5348-17 or White Ring, 545-5348-67.



Items 11-16 & 18 Posts can use a Black Bumper Post Sleeve (Tall), 545-5308-00 (White, 545-5308-08 or Red, 545-5308-22) Usually, only Posts which are in the ball path require a Bumper Post Sleeve.

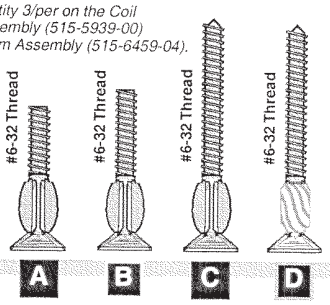
Items 12-15 & 18 Posts are typically secured by a #10-32 Nylon Stop Nut, 240-5203-00 and #10 Washer, 242-5010-00 (Item 11 Post use a #8-32 Nylon Stop Nut, 240-5102-00; Item 16 Post use a #8-32 T-Nut, 240-5101-00).

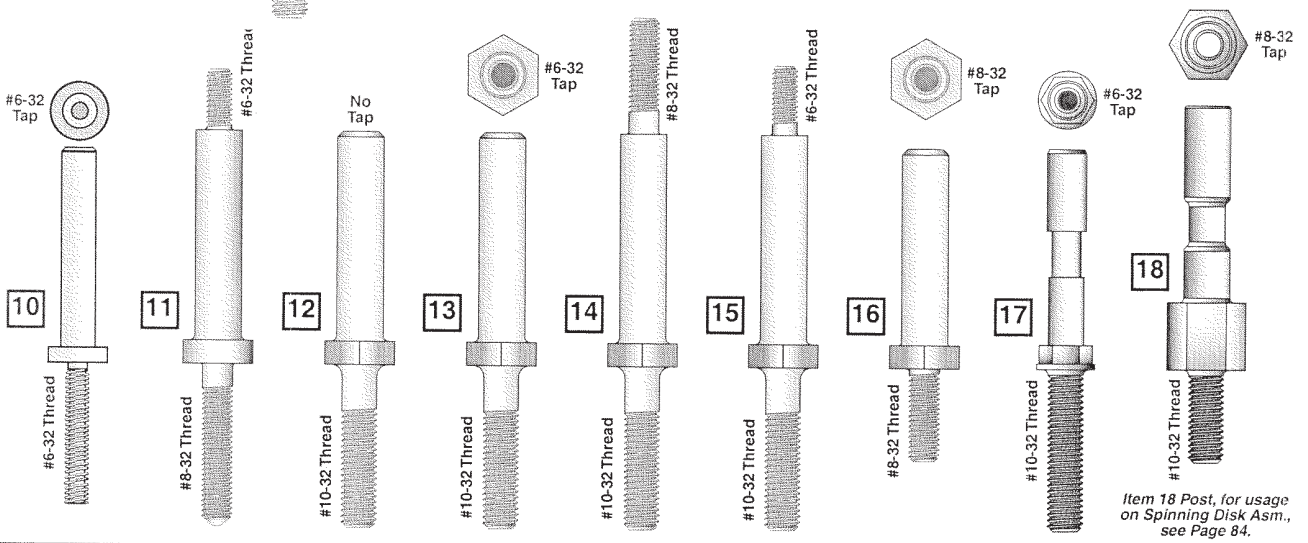
A & B *Items A & B Note: Typically used to secure Hex Spacers onto the Playfield Wood or Back Panel.*

C *Item C Note: Quantity 4 on bottom Cabinet Speaker Grill (Qty. 4) (also requires #6-32 Nylon Stop Nut, 240-5005-00).*

D *Item D Note: Quantity 3/per on the Coil Bracket Welded Assembly (515-5939-00) in the Bumper Bottom Assembly (515-6459-04).*

A - D *Items A-D Note: The "Fins" keep the screw from turning inside the wood hole.*





Item 18 Post, for usage on Spinning Disk Asm., see Page 84.

Nr.	METAL POSTS	SPI PART Nr.
1	Post [Fasten] #6-32 Thread // Wood Screw	530-5010-02
2	Post [Fasten] #6-32 Thread // #6-32 Thread	530-5012-02
3	Post [Fasten] #8-32 Thread // #6-32 Thread	530-5008-00
4	Post Brass [Adjustable, Sliding] #8-32 Thread	530-5621-00
5	Mini-Post Wood Screw (no cut-away)	530-5004-01
6	Mini-Post Wood Screw	530-5004-00
7	Mini-Post Machine Scr. // #10-32 .4" Thread	530-5005-01
8A	Mini-Post MS // #10-32 .875" Thread	530-5005-00
8B	Mini-Post Short MS // #10-32 .875" Thread	530-5749-00
9	Post [Fasten] #6-32 Thread // Wood Screw	530-5263-01
10	Post #6-32 Tap // #6-32 Thread	530-5127-00
11	Post [Fasten] #6-32 Thread // #8-32 Thread	530-5007-00

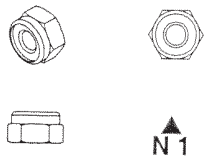
Nr.	METAL POSTS	SPI PART Nr.
12	Post [Hex Base] NO TAP // 10-32 Thread	530-5332-00
13	Post [Hex Bs.] #6-32 TAP // #10-32 Thread	530-5332-01
14	Post [Hex Bs.] #8-32 Thread // #10-32 Thr.	530-5332-02
15	Post [Hex Bs.] #6-32 Thread // #10-32 Thr.	530-5332-03
16	Post [Hex Bs.] #8-32 TAP // #8-32 Thread	530-5332-04
17	Post [Hex Bs.+Groove] #6-32 TAP // #10-32 Thr.	530-5679-00
18	Post [Hex Bs.+Groove] #8-32 TAP // #10-32 Thr.	530-5753-00

Nr.	FIN SHANK SCREWS	SPI PART Nr.
A	#6-32 X 3/4" Fin Shank Screw	237-5921-02
B	#6-32 X 7/8" Fin Shank Screw	237-5921-04
C	#6-32 X 1¼" Fin Shank Screw	237-5883-00
D	#6-32 X 13/16" Spiral Fin Shank Screw	237-5957-00

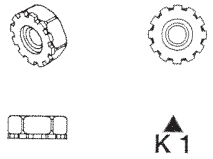
NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

Playfield - Nylon Stop, KEPS, Hex, T-, Flange, Pal* & Wing Nuts* (Actual Size) †

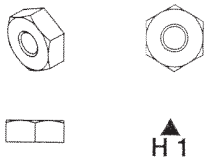
Nr.	NYLON STOP NUTS*	SPI PART Nr.
N1	#6-32 Nylon Stop Nut	240-5005-00
N2	#6-32 N.S. Nut *(with 1/4" Hex Body)*	240-5010-00
N3	#8-32 Nylon Stop Nut	240-5102-00
N4	#10-32 Nylon Stop Nut	240-5203-00
N5	#10-24 Nylon Stop Nut	240-5206-00
	*Item **N5** used with #10-24 X 1-3/4" Carriage Bolt Square Neck Black (231-5022-00) located in the Cabinet for the Roto Lock (Male) (355-5006-01).*	
N6	#4-40 Nylon Stop Nut	240-5303-00
N7	#4-40 *(18/8 Stainless)* Nylon Stop Nut	240-5303-01
N8	5/16"-18 Nylon Stop Nut	240-5316-00



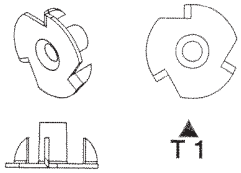
Nr.	KEPS NUTS*	SPI PART Nr.
K1	#6-32 Keps Nut *(with Star Washer)*	240-5008-00
K2	#6-32 Keps Nut *(with 1/4" Hex Body)*	240-5011-00
K3	#8-32 Keps Nut	240-5104-00
K4	#10-32 Keps Nut	240-5208-00
K5	#10-24 Keps Nut	240-5207-00
K6	#4-40 Keps Nut	240-5318-00



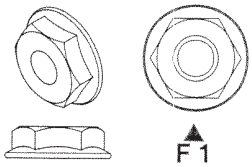
Nr.	HEX NUTS*	SPI PART Nr.
H1	#6-32 Hex Nut *(No Star Washer)*	240-5004-00
H2	#8-32 Hex Nut	240-5103-00
H3	#10-32 Hex Nut	240-5201-00
H4	#10-24 Hex Nut	240-5202-00
	*Item **H4** used with #10-24 X 1" Carriage Bolt Square Neck Black (231-5021-00) located in the Cabinet for the Side Armor Rear (towards Backbox).*	
H5	#10-32 X 3/8" Hex Nut	240-5209-00
H6	3/4-16 Hex Nut	240-5315-00
H7	#2-56 Hex Nut	240-5301-00
H8	7/8"-14 Hex Nut	240-5317-00



Nr.	T-NUTS*	SPI PART Nr.
T1	#6-32 T-Nut	240-5002-00
T2	#6-32 T-Nut *(with Side Cut Off)*	240-5002-01
T3	#8-32 T-Nut	240-5101-00
T4	#10-32 *(Black Oxide)* T-Nut	240-5007-00
T5	#10-32 T-Nut *(with Side Cut Off)*	240-5205-00
T6	#10-32 X 5/16" 3-Prong T-Nut	240-5204-00
T7	#10-24 T-Nut	240-5200-00



Nr.	FLANGE NUT*	SPI PART Nr.
F1	1/4" X 20 Flange Nut	240-5300-00
	*Item **F1** used with 1/4-20 X 1-1/4 Sq. Neck Carriage Bolt Black (231-5003-00) located in the Cabinet for the Side Armor (Front) and Pivot Hinges.*	



Nr.	PAL NUTS*	SPI PART Nr.
P1	Plastic Pal Nut *(on Flipper Buttons)*	240-5003-00
P2	Metal Pal Nut *(on Flipper Buttons)*	240-5003-01

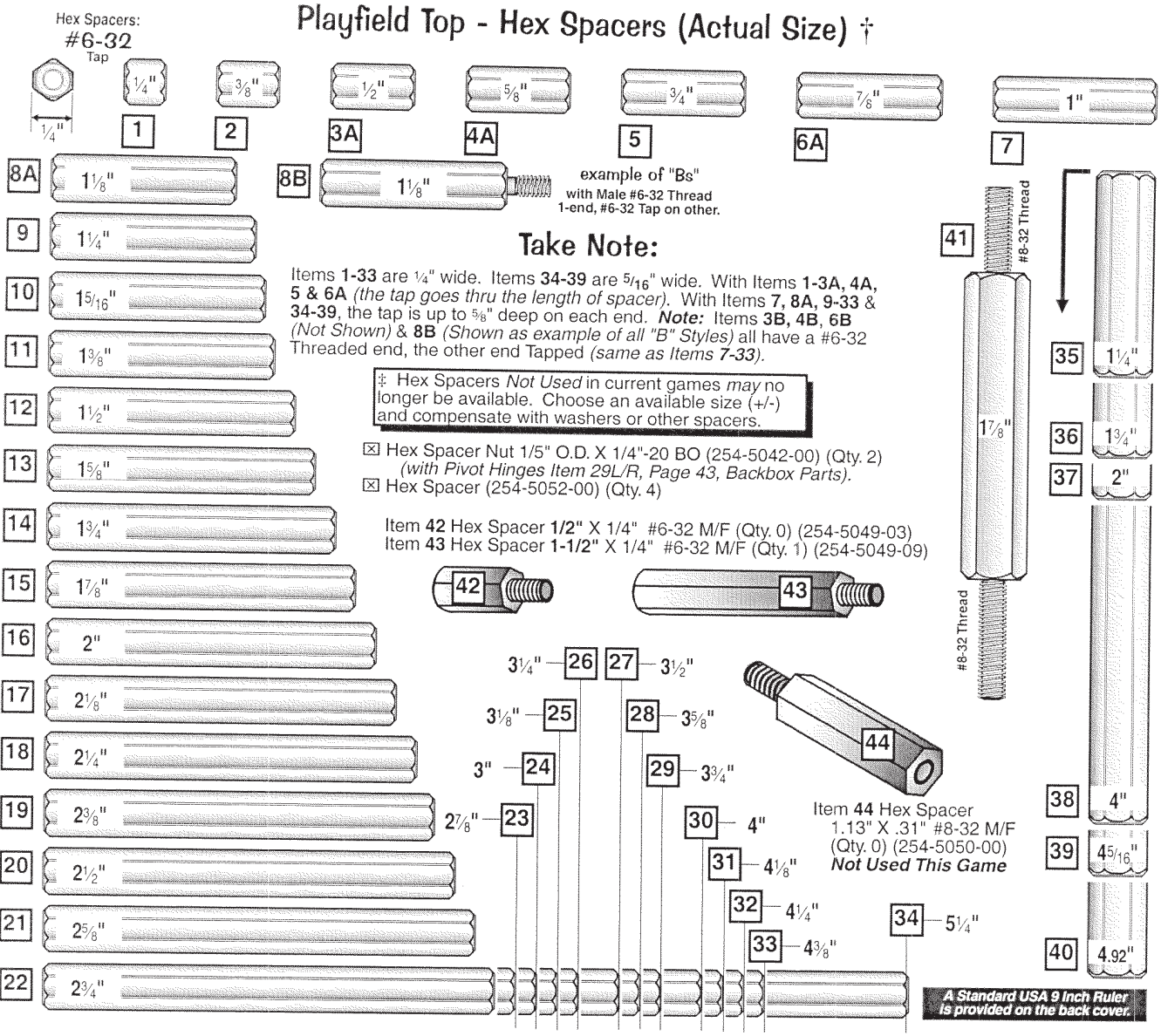
* *Not Shown*

Nr.	WING NUTS*	SPI PART Nr.
W1	#6-32 Wing Nut	240-5001-00
W2	#8-32 Wing Nut	240-5100-00
W3	#10-24 Wing Nut	240-5211-00
W4	1/4"-20 Wing Nut	240-5302-00
W5	1/4"-20 Toggle Wing	240-5324-00

* *Not Shown*

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

Playfield Top - Hex Spacers (Actual Size) †



Take Note:

Items **1-33** are 1/4" wide. Items **34-39** are 5/16" wide. With Items **1-3A, 4A, 5 & 6A** *(the tap goes thru the length of spacer)*. With Items **7, 8A, 9-33** & **34-39**, the tap is up to 5/8" deep on each end. ***Note:*** Items **3B, 4B, 6B** *(Not Shown)* & **8B** *(Shown as example of all "B" Styles)* all have a #6-32 Threaded end, the other end Tapped *(same as Items **7-33**)*.

‡ Hex Spacers *Not Used* in current games *may* no longer be available. Choose an available size (+/-) and compensate with washers or other spacers.

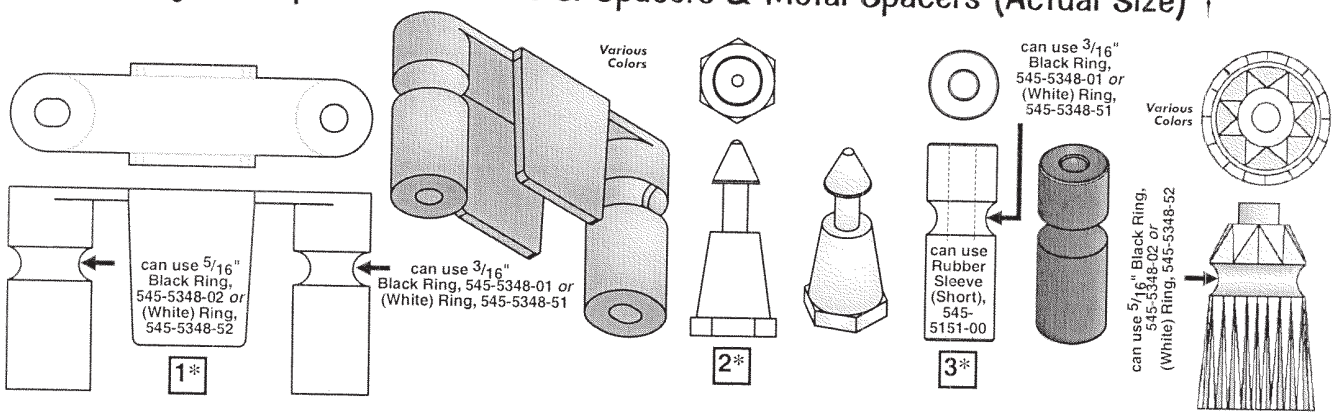
☒ Hex Spacer Nut 1/5" O.D. X 1/4"-20 BO (254-5042-00) (Qty. 2) *(with Pivot Hinges Item 29L/R, Page 43, Backbox Parts).*
☒ Hex Spacer (254-5052-00) (Qty. 4)

Item **42** Hex Spacer **1/2"** X 1/4" #6-32 M/F (Qty. 0) (254-5049-03)
Item **43** Hex Spacer **1-1/2"** X 1/4" #6-32 M/F (Qty. 1) (254-5049-09)

Nr.	HEX SPACERS	SPI PART Nr.	Nr.	HEX SPACERS	SPI PART Nr.
1	1/4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-00	19	2 3/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-28
2	3/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-12	20	2 1/2" X 1/4" : #6-32 Tap *(both ends)*	254-5008-16
3A	1/2" X 1/4" : #6-32 Tap *(both ends)*	254-5008-03	21	2 5/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-08
3B*	Identical to **3A** *with #6-32 Thread end*	254-5024-03	22	2 3/4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-15
4A	5/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-02	23	2 7/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-31
4B*	Identical to **4A** *with #6-32 Thread end*	254-5024-02	24	3" X 1/4" : #6-32 Tap *(both ends)*	254-5008-14
5	3/4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-04	25	3 1/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-19
6A	7/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-05	26	3 1/4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-26
6B*	Identical to **6A** *with #6-32 Thread end*	254-5024-05	27	3 1/2" X 1/4" : #6-32 Tap *(both ends)*	254-5008-27
7	1" X 1/4" : #6-32 Tap *(both ends)*	254-5008-06	28	3 5/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-25
8A	1 1/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-17	29	3 3/4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-36
8B	Identical to **8A** *with #6-32 Thread end*	254-5024-17	30	4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-21
9	1 1/4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-11	31	4 1/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-23
10	1 5/16" X 1/4" : #6-32 Tap *(both ends)*	254-5008-34	32	4 1/4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-30
11 ‡	1 3/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-33	33	4 3/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-29
12	1 1/2" X 1/4" : #6-32 Tap *(both ends)*	254-5008-09	34	5 1/4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-35
13 ‡	1 5/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-13	35	1 1/4" X 5/16" : #6-32 Tap *(both ends)*	254-5018-09
14	1 3/4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-10	36	1 3/4" X 5/16" : #6-32 Tap *(both ends)*	254-5018-06
15 ‡	1 7/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-20	37	2" X 5/16" : #6-32 Tap *(both ends)*	254-5018-07
16	2" X 1/4" : #6-32 Tap *(both ends)*	254-5008-07	38	4" X 5/16" : #6-32 Tap *(both ends)*	254-5018-03
17	2 1/8" X 1/4" : #6-32 Tap *(both ends)*	254-5008-32	39	4 5/16" X 5/16" : #6-32 Tap *(both ends)*	254-5018-00
18	2 1/4" X 1/4" : #6-32 Tap *(both ends)*	254-5008-18	40	4.92" X 5/16" : #6-32 Tap *(both ends)*	254-5018-04

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

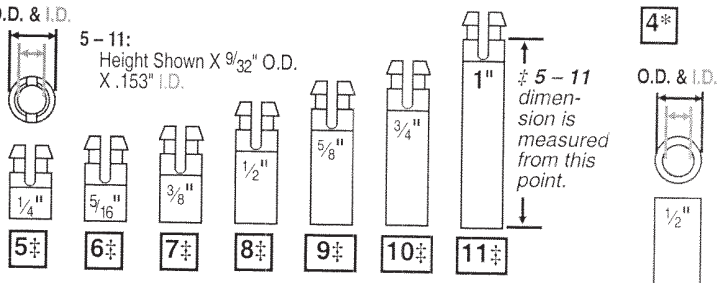
Playfield Top - Plastic Posts & Spacers & Metal Spacers (Actual Size) †



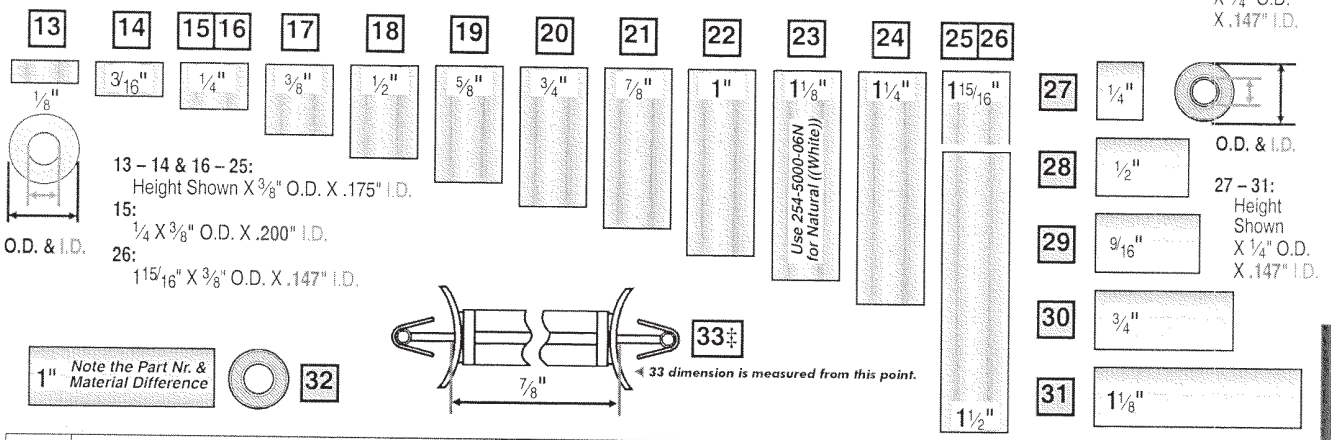
PLASTIC PART COLOR CHART

Nr.	Color	Nr.	Color	Nr.	Color
-00	Black	-06	Yellow	-12	Fluor. Blue
-01	Clear	-07	Orange	-13	Teal Green
-02	Red	-08	(White)	-14	(Gray)
-03	Amber	-09	Purple	-15	Luminescent
-04	Green	-10	Fluor. Org.	-16	Gold
-05	Blue	-11	Fluor. Green		

* Items **1 & 5** come in various colors. *The "**-XX**" (the last 2-Digits in the Part Number),* should be replaced with the desired 2-Digit number from the above Color Chart *(may not be available in every color; other colors used in prior games may no longer be available.) Call for availability.*

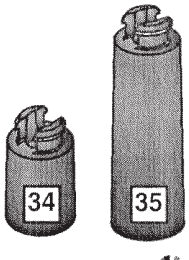


‡ *Items **5** through **11** dimensions are measured from bottom to just under the cut-away. Item **33** dimension is measured from top-to-top of curve. See pictorials with Items **11** & **33**.*



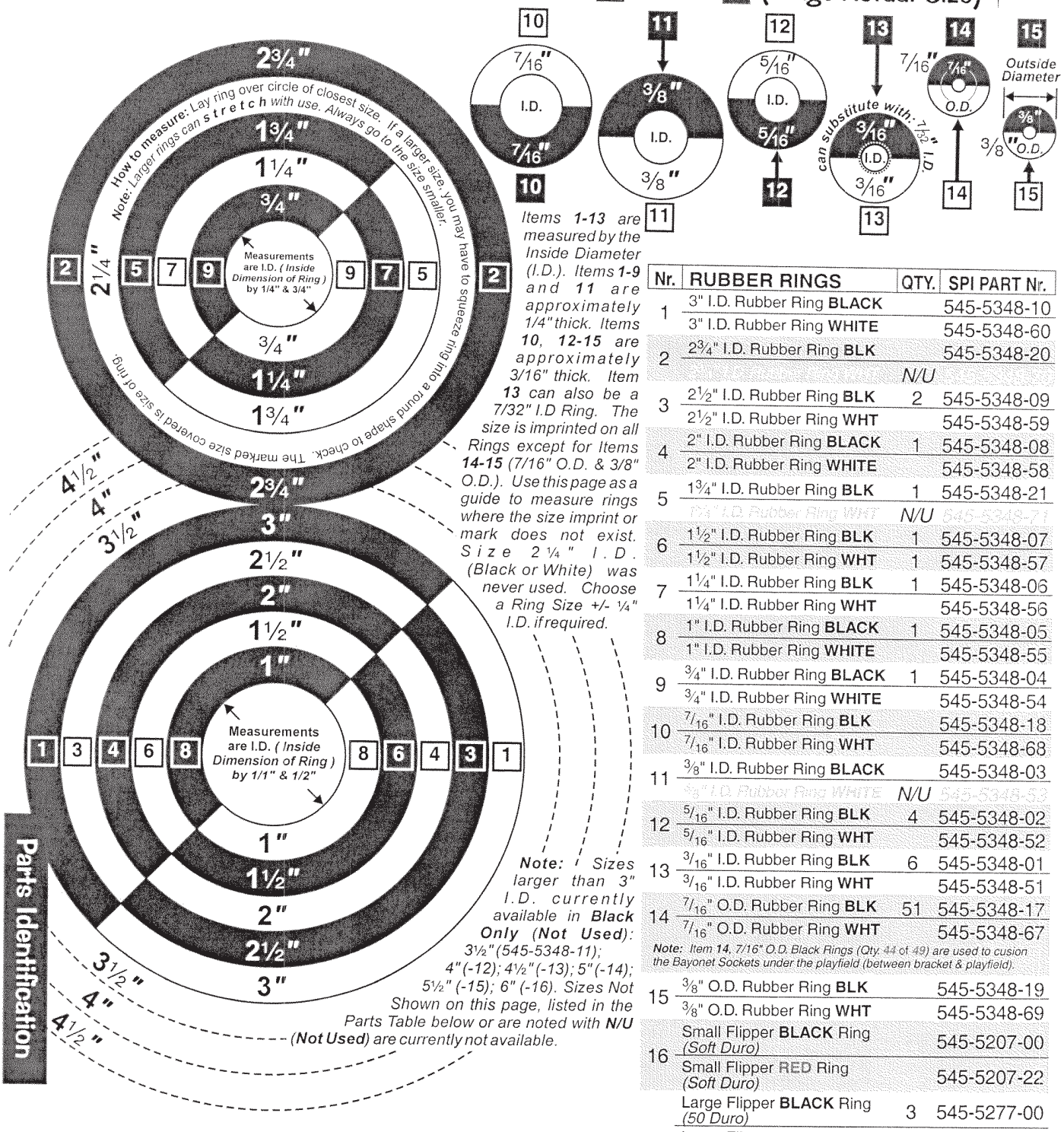
Nr.	PLASTIC POSTS & SPACERS	SPI PART Nr.
1**	Top Lane Plastic Mini-Lite Hood (XX-Color)	550-5061-XX
2**	Mini-Jewel Plastic Post (XX-Color)	550-5052-XX
3**	1 1/16" 1-Groove Plastic Post (XX-Color)	550-5059-XX
	*Item 3 Only : Use Part Number (550-5059-**00**) for color **Black**.*	
4**	1-Groove Jewel Plastic Post (XX-Color)	550-5034-XX
	Items 3 & 4 typically sec'd by: Post Fastening Scr. #6-32 Top / #6-32 Bot. (530-5012-02). *Use Color Chart above for last 2-digits. Not all colors are available.*	
	Items 1–4 Note: Use Color Chart above for last 2-digits. Not all colors are available.	
5 ‡	1/4" Self Retain. Plastic Spacer (White)	254-5007-02
6 ‡	9/16" Self Retain. Plastic Spacer (White)	254-5007-05
7 ‡	3/8" Self Retain. Plastic Spacer (White)	254-5007-01
8 ‡	1/2" Self Retain. Plastic Spacer (White)	254-5007-04
9 ‡	5/8" Self Retain. Plastic Spacer (White)	254-5007-00
10 ‡	3/4" Self Retain. Plastic Spacer (White)	254-5007-03
11 ‡	1" Self Retain. Plastic Spacer (White)	254-5007-06
12	1/2" X 1/4" O.D. X .147" I.D. Pls. Spacer (White)	254-5000-03
13	1/8" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-19
14	3/16" X 3/8" O.D. X .175" I.D. Pls. Spcr. (Gray)	254-5000-18
15	1/4" X 3/8" O.D. X .200" I.D. Pls. Spcr. (Gray)	254-5000-02
16	1/4" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-09
17	3/8" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-12
18	1/2" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-01
19	5/8" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-14
20	3/4" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-07

Nr.	PLASTIC POSTS & SPACERS	SPI PART Nr.
21	7/8" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-11
22	1" X 3/8" O.D. X .175" I.D. Pls. Spacer (Gray)	254-5000-04
23	1 1/8" X 3/8" O.D. X .175" I.D. Pls. Spcr. (Gray)	254-5000-06
	*Item 23 Only : Add the letter "**N**" for color Natural (if available) or "**B**" for color Black.*	
24	1 1/4" X 3/8" O.D. X .175" I.D. Pls. Spcr. (Gray)	254-5000-05
25	1 1/2" X 3/8" O.D. X .175" I.D. Pls. Spcr. (Gray)	254-5000-08
26	1 15/16" X 3/8" O.D. X .147" I.D. Plastic Spacer (Gray)	254-5000-15
	Items 13-26 Only : Spacers may also be Black in color (random from vendor).	
	Not Shown and listed for reference only : 254-5000-10: 2 1/2" X 3/8" O.D. X .175" I.D. -13: 5/16" X 1/4" X .147"; -16: 5/16" X 5/16" X .190"; -17: 1 3/4" X 3/8" O.D. X .175" I.D.	
27	1/4" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5014-03
28	1/2" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5014-00
29	9/16" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5014-04
30	3/4" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5014-01
31	1 1/8" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5014-02
32	1" X 5/16" O.D. X .144" I.D. Metal Spacer	254-5001-00
33‡	7/8" Plastic Spacer Support *(Dual-Locking)*	254-5039-14
34	Plastic Spacer, .5" Plastic Mounting	254-5054-00
35	Plastic Spacer, 1.13" Plastic Mounting	254-5054-01



NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE P/N REQUIRED.

Playfield - Rubber Parts Black ■, White □ & Blue ■ (Rings Actual Size) †



*Items **1-13** are measured by the Inside Diameter (I.D.). Items **1-9** and **11** are approximately 1/4" thick. Items **10, 12-15** are approximately 3/16" thick. Item **13** can also be a 7/32" I.D Ring. The size is imprinted on all Rings except for Items **14-15** (7/16" O.D. & 3/8" O.D.). Use this page as a guide to measure rings where the size imprint or mark does not exist. Size 2¼" I.D. (Black or White) was never used. Choose a Ring Size +/- ¼" I.D. if required.*

***Note:** Sizes larger than 3" I.D. currently available in **Black Only (Not Used)**: 3½"(545-5348-11); 4"(-12); 4½"(-13); 5"(-14); 5½" (-15); 6" (-16). Sizes Not Shown on this page, listed in the Parts Table below or are noted with **N/U (Not Used)** are currently not available.*

Nr.	RUBBER RINGS	QTY.	SPI PART Nr.
1	3" I.D. Rubber Ring **BLACK**		545-5348-10
	3" I.D. Rubber Ring **WHITE**		545-5348-60
2	2¾" I.D. Rubber Ring **BLK**		545-5348-20
	2¾" I.D. Rubber Ring **WHT**	N/U	545-5348-70
3	2½" I.D. Rubber Ring **BLK**	2	545-5348-09
	2½" I.D. Rubber Ring **WHT**		545-5348-59
4	2" I.D. Rubber Ring **BLACK**	1	545-5348-08
	2" I.D. Rubber Ring **WHITE**		545-5348-58
5	1¾" I.D. Rubber Ring **BLK**	1	545-5348-21
	1¾" I.D. Rubber Ring **WHT**	N/U	545-5348-71
6	1½" I.D. Rubber Ring **BLK**	1	545-5348-07
	1½" I.D. Rubber Ring **WHT**	1	545-5348-57
7	1¼" I.D. Rubber Ring **BLK**	1	545-5348-06
	1¼" I.D. Rubber Ring **WHT**		545-5348-56
8	1" I.D. Rubber Ring **BLACK**	1	545-5348-05
	1" I.D. Rubber Ring **WHITE**		545-5348-55
9	¾" I.D. Rubber Ring **BLACK**	1	545-5348-04
	¾" I.D. Rubber Ring **WHITE**		545-5348-54
10	7/16" I.D. Rubber Ring **BLK**		545-5348-18
	7/16" I.D. Rubber Ring **WHT**		545-5348-68
11	⅜" I.D. Rubber Ring **BLACK**		545-5348-03
	⅜" I.D. Rubber Ring **WHITE**	N/U	545-5348-53
12	5/16" I.D. Rubber Ring **BLK**	4	545-5348-02
	5/16" I.D. Rubber Ring **WHT**		545-5348-52
13	3/16" I.D. Rubber Ring **BLK**	6	545-5348-01
	3/16" I.D. Rubber Ring **WHT**		545-5348-51
14	7/16" O.D. Rubber Ring **BLK**	51	545-5348-17
	7/16" O.D. Rubber Ring **WHT**		545-5348-67
	***Note:** Item **14**, 7/16" O.D. Black Rings (Qty. 44 of 49) are used to cusion the Bayonet Sockets under the playfield (between bracket & playfield).*		
15	⅜" O.D. Rubber Ring **BLK**		545-5348-19
	⅜" O.D. Rubber Ring **WHT**		545-5348-69
16	Small Flipper **BLACK** Ring *(Soft Duro)*		545-5207-00
	Small Flipper **RED** Ring *(Soft Duro)*		545-5207-22
17	Large Flipper **BLACK** Ring *(50 Duro)*	3	545-5277-00
	Large Flipper **YELLOW** Ring *(50 Duro) (use -06 40 Duro)*		545-5277-04
	Large Flipper **WHITE** Ring *(50 Duro)*		545-5277-08
	Large Flipper **RED** Ring *(Soft Duro)*		545-5277-22

Take Note:

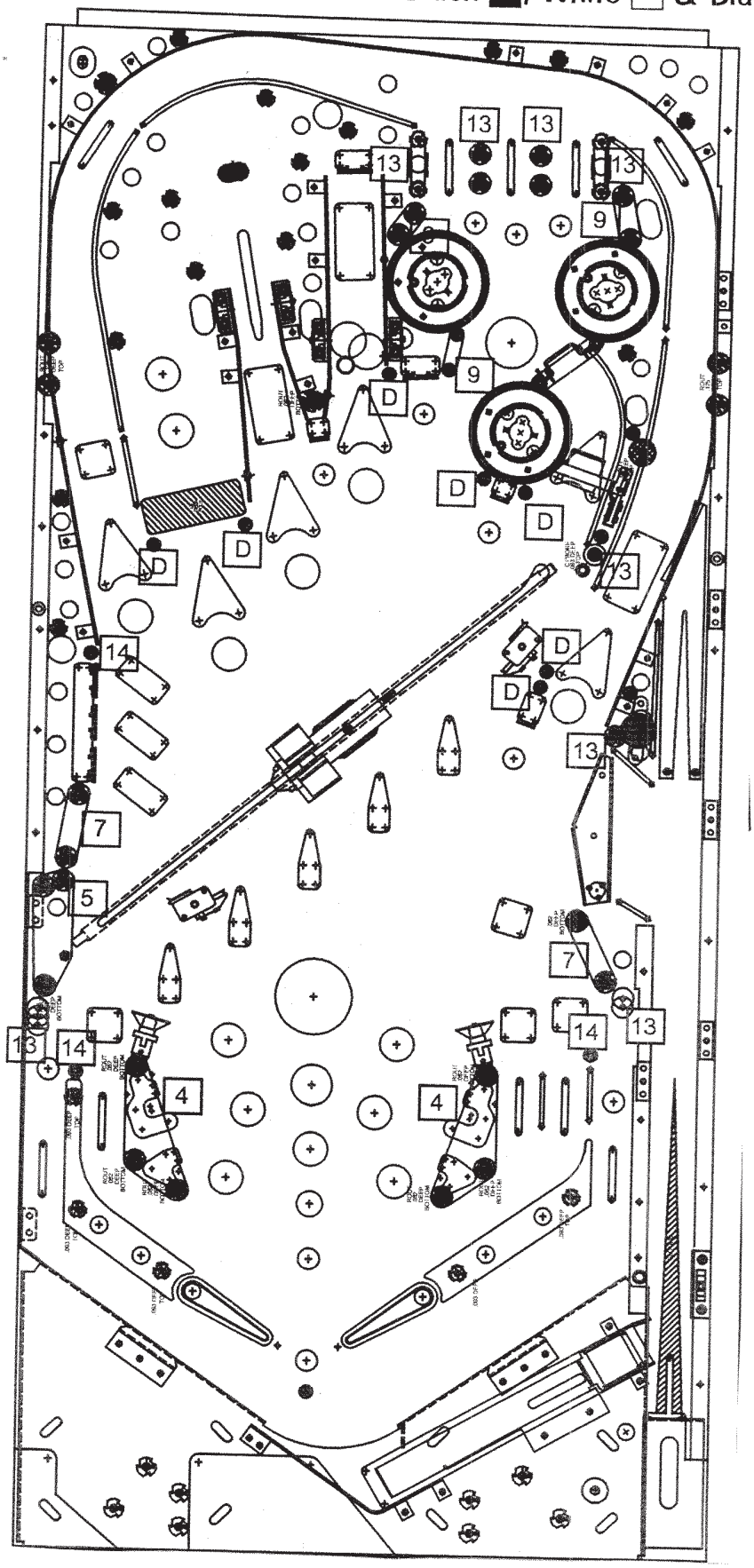
For Blue Rubber Pads, see the next page and/or the Blue Pages for the assembly the pads are found on for the part number.

Nr.	RUBBER BUMPER PADS	QTY.	SPI PART Nr.
A*	Bumper **BLK** Pad (Lg. w/ grommet)	2	545-5428-00
	Item A are located on Flipper Assemblies. See next page for location.		
B*	Bumper **BLK** Pad (Sm. w/ grommet)	3	545-5105-00
	Item B are located on multiple assemblies. See next page for location.		

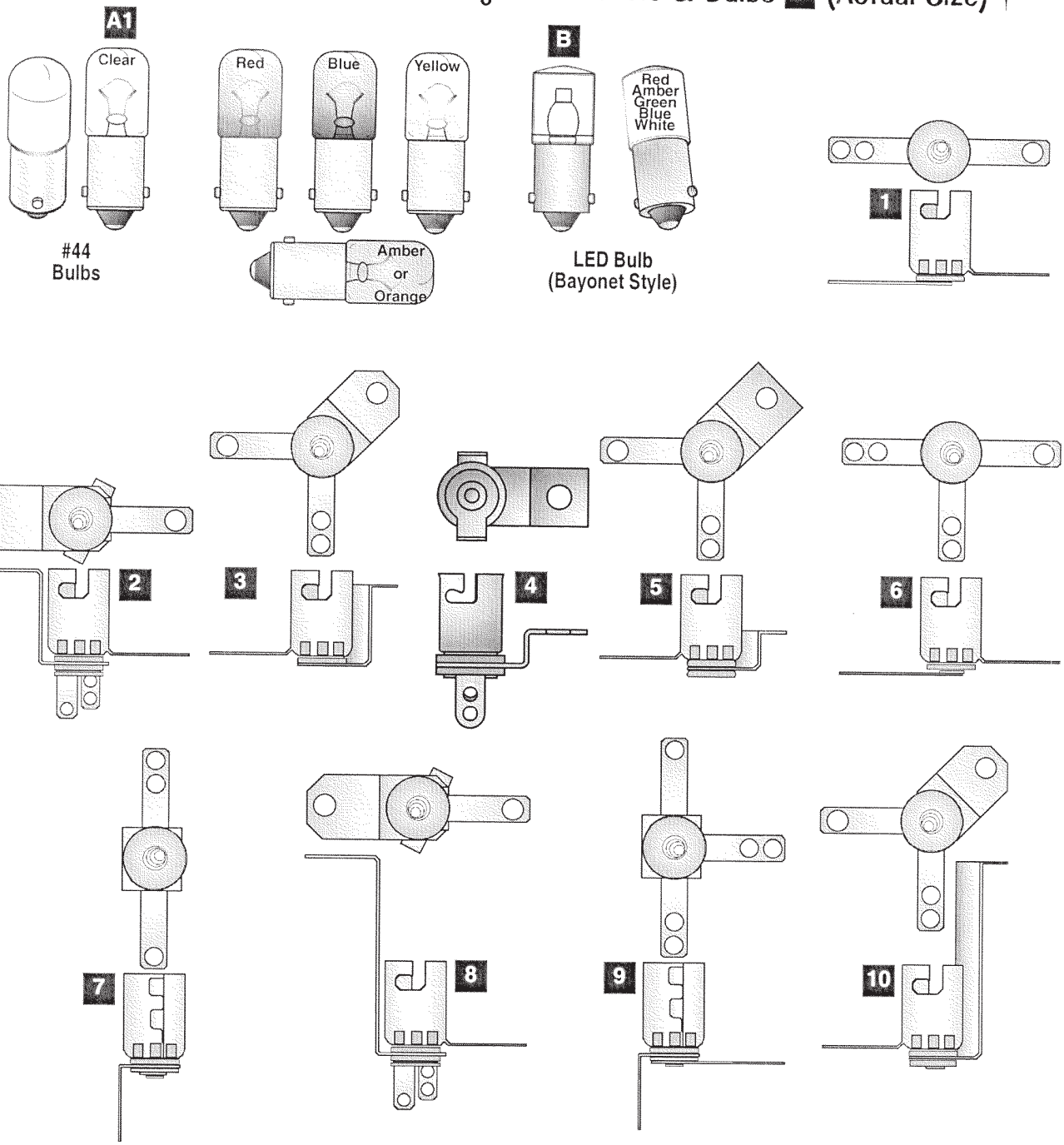
Nr.	RBR. BUMPER POST SLVS.	QTY.	SPI PART Nr.
D*	Bumper **BLACK** Post Sleeve (Tall)	7	545-5308-00
	Item D in RED use 545-5308-22; Item D in WHITE use 545-5308-08.		
E*	Bumper Post Sleeve (Short)	1	545-5151-00

Parts Identification

Playfield Top & Bottom - Rubber Parts Black ■, White □ & Blue ■ Continued



Playfield Top & Bottom - Small Bayonet Sockets & Bulbs ■ (Actual Size) †



Nr.	BULBS (#44)	SPI PART Nr.
A	#44 Bulb (Clear) *Heavy Filament*	165-5000-44-HF
	#44 Bulb *(replace -XX w/color below)*	165-5053-XX-HF

Item A Note: Amber (165-5053-03-HF); Green (165-5053-04-HF); Yellow (165-5053-06-HF); Red (165-5053-02-HF); Blue (165-5053-05-HF); Orange (165-5053-07-HF)

Nr.	BULBS (LED & #455)	SPI PART Nr.
B	LED Module (WHT) (12.8v 20-25mA) Bynt.	112-5023-08

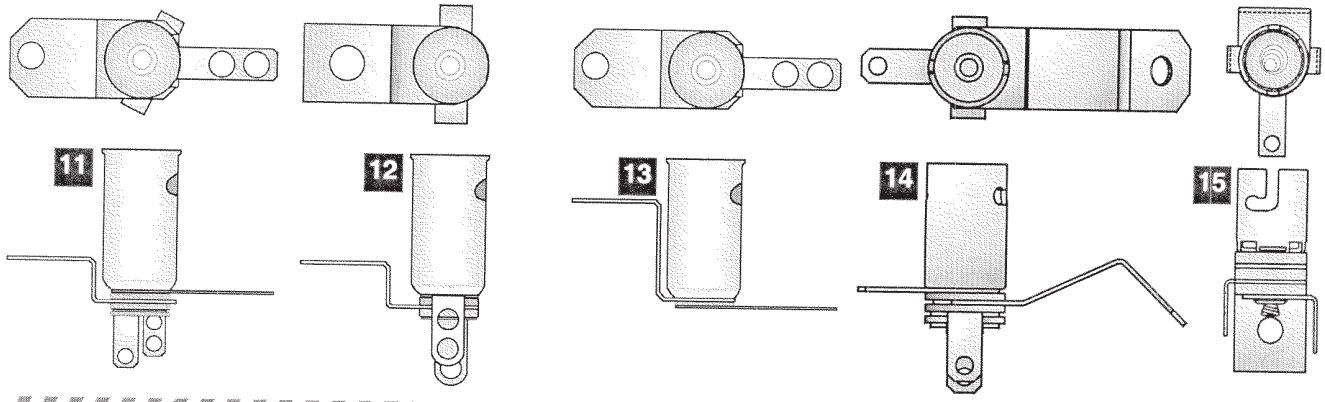
Item B Note: *Different Colors may be available ~*
Red (112-5023-02); Amber (112-5023-03); Green (112-5023-04); Blue (112-5023-05);

Nr.	SMALL BAYONET SOCKETS	SPI PART Nr.
1	2-Lug Staple Down Socket	077-5000-00
2	3-Lug Stand-Up Socket (Med. Brkt.)	077-5008-00
3	2-Lug Stand-Up Socket (Med. Brkt.)	077-5002-00
4	2-Lug Stand-Up Socket (Short Brkt.)	077-5223-00
5	2-Lug Stand-Up Sckt. (Short Bracket)	077-5002-31
6	3-Lug Staple Down Socket	077-5001-00
7	2-Lug Laydown Socket	077-5003-00
8	3-Lug Stand-Up Socket (Tall Bracket)	077-5009-00

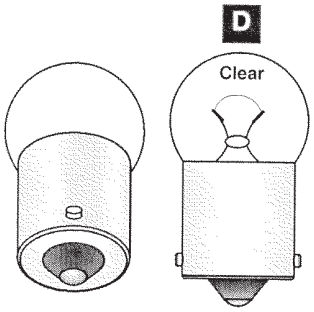
Nr.	SMALL BAYONET SOCKETS	SPI PART Nr.
9	3-Lug Laydown Socket (3 Lugs Flat)	077-5006-00
10	2-Lug Stand-Up Socket (Tall Bracket)	077-5005-00
11	3-Lug Stand-Up Long Shell Socket	077-5013-00
12	2-Lug Stand-Up Lg. Shell Socket (Gls)	077-5031-00
13	1-Lug S-U Lg. Shell Sckt. (Med. Brkt.)	077-5012-00
14	3-Lug S-U Lg. Shell Sckt. (45° Brkt.)	077-5035-00
15	3-Lug Laydown Socket (2 Lugs Bent)	077-5032-00

NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

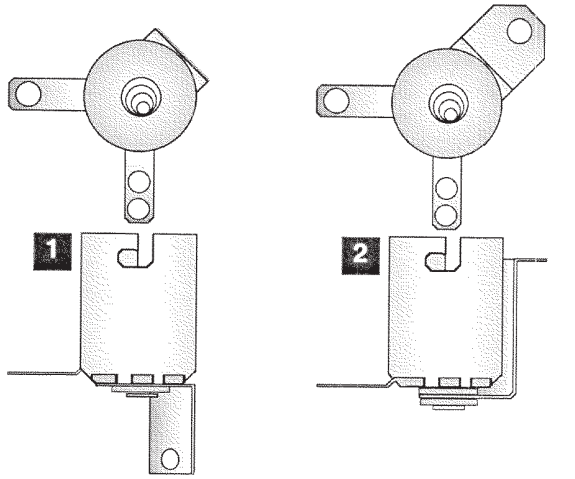
Playfield Top & Bot. - Small Bayonet Sockets & Bulbs ■ (Actual Size) † Continued

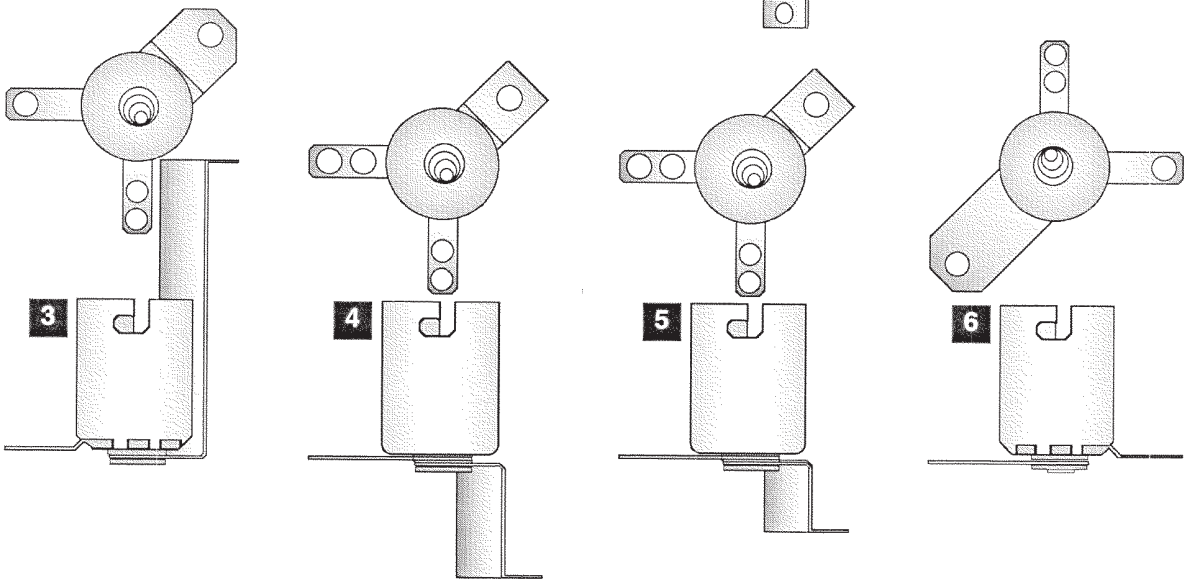


Playfield Bottom - Large Bayonet Sockets & Bulbs ■ (Actual Size) †



#89
Bulb



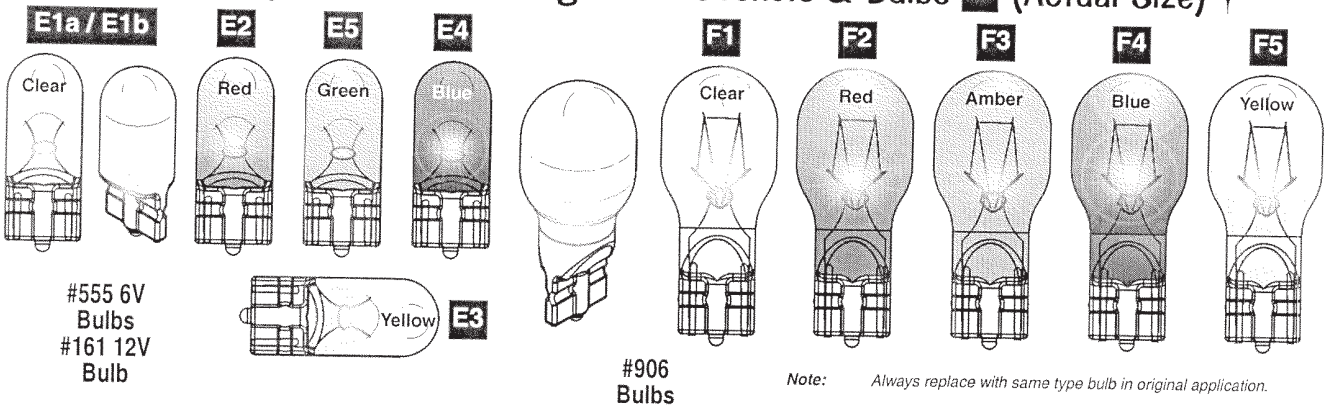


Nr.	BULBS (#89)	SPI PART Nr.
D	#89 Bulb *Heavy Filament*	165-5000-89-HF

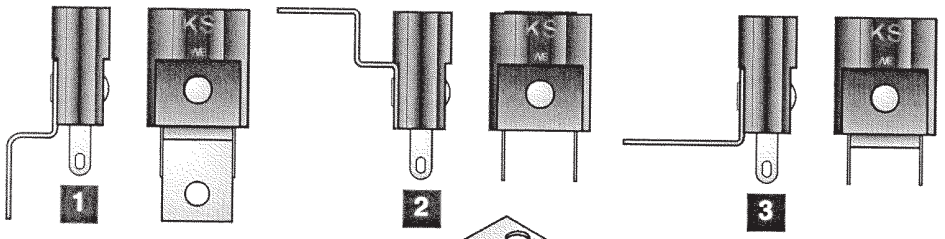
Nr.	LARGE BAYONET SOCKETS	SPI PART Nr.
1	2-Lug Laydown Standard Socket	077-5100-00
2	2-Lug Stand-Up Short Socket	077-5101-00
3	2-Lug Stand-Up Long Socket	077-5102-00
4	2-Lug Stand-Up Rev. Mount Socket	077-5103-00
5	2-Lug Stand-Up Rv. Mnt. Short Socket	077-5106-00
6	2-Lug Straight Leg Socket	077-5107-00

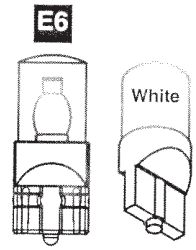
NOT ALL PARTS LISTED ABOVE ARE USED ON THIS GAME (QUANTITIES PER GAME WILL DIFFER). COMPARE ACTUAL PART ON GAME TO ABOVE DRAWINGS TO IDENTIFY THE PART NUMBER REQUIRED.

Playfield Top & Bottom - Wedge Base Sockets & Bulbs ■ (Actual Size) †

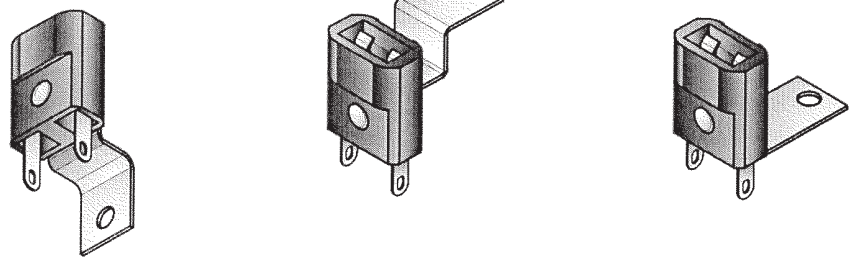


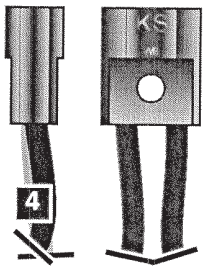
Note: *Always replace with same type bulb in original application.*



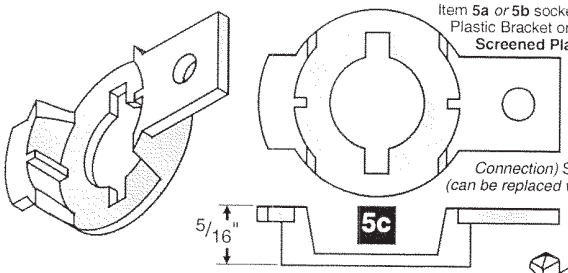


LED Bulb (Wedge Base)



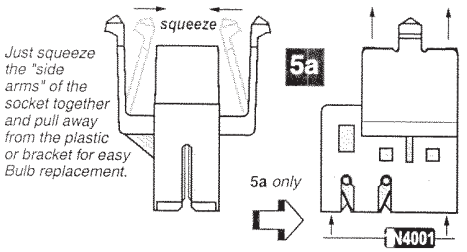


Item 4 Socket does not require brackets. Old stock may include "L" style brackets (each side); do not secure to assembly. ***Black Wires (Qty. 2) are 12" each.***

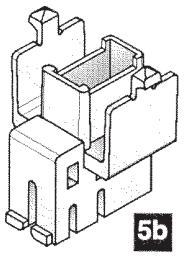


Item **5a** *or* **5b** sockets are secured to the playfield or assembly by Item **5c** Plastic Bracket or *may* also be snapped into specially cut **Clear and / or Screened Plastic Pieces** *or* **Metal Brackets** *(used for multiple mounting of sockets when positioned closely together or in tight areas). If Plastic Pieces or Metal Brackets are used to mount Item* ***5a*** *or* ***5b*** *Sockets, it will be noted on* ***Playfield Bottom - Miscellaneous Parts and Brackets,*** *page earlier in this Chapter.*

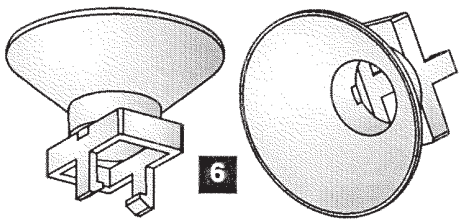
Item **5a** is a solderless **IDC** *(Insulation Displacement Connection)* Socket with a built-in Diode, 1N4003 (112-5003-00) *(can be replaced with 1N4001 Diode, 112-5001-00).* Item **5b** Socket (Yellow) is identical to **5a** (Socket) *except* it does ***NOT REQUIRE*** a diode *(Flash Lamp usage).*



Just squeeze the "side arms" of the socket together and pull away from the plastic or bracket for easy Bulb replacement.



5b *is Yellow with* **No Diode**



Nr.	BULBS (#555)	SPI PART Nr.
E1a	#555 Wedge Base Bulb (Clear)	165-5002-00
E2-E5	#555 Wedge Base Bulb (Multi-Color)	165-5054-XX
	Item E2-E5 Bulb Note: Different Colors available (not used in this game) ~ Red (165-5054-02); Green (165-5054-04); Blue (165-5054-05); Yellow (165-5054-06);	
E1b	#161 12V Wedge Base Bulb (Clear)	165-5032-00

Nr.	BULBS (LED & #906)	SPI PART Nr.
E6	LED Module (WHT) (5v - 6.3v) Wedge Base	112-5024-08
	Item E6 Bulb Note : Typically used with Item 4 Socket in Pop Bumpers.	
F	#906 Wedge Base Bulb (Clear)	165-5004-00
	Item F Note: Different Colors available (not used in this game) ~ Red (165-5004-02); Amber (165-5004-03); Blue (165-5004-05); Yellow (165-5004-06)	

Nr.	WEDGE BASE SOCKETS	SPI PART Nr.
1	Wedge Base Socket (Laydown)	077-5026-01
2	Wedge Base Socket (Offset)	077-5029-00
3	Wedge Base Socket (Laydown GI)	077-5030-00
4	W.B. Socket (Bumpers/Special App.)	077-5206-00

Nr.	WEDGE BASE SOCKETS	SPI PART Nr.
5a	IDC Snap-On Socket (Biege)	077-5216-00
5b	IDC Snap-On Socket ***No Diode*** (Yel.)	077-5216-**01**
5c	5/16" Ht. Bracket (White)	545-5760-18
6	Light Reflector (Silver Plst.) REF540N	545-5409-01
	Note Item 6 : Typically used with Item 1 (but will fit on any similiar Wedge Base Socket).	

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