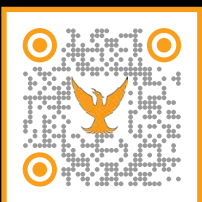




PRODUCTS & PARTS

ANYTHING YOU CHOOSE WILL BE THE SMART CHOICE

Kegel introduces ATLAS PRO, the newest addition
to the Smart Lane Machine family



To learn more about the new Atlas Smart Lane Machines, Ikon lane Machines and Crossfire, please scan the QR code or visit our website at www.kegel.net



ATLAS PRO

- Packaging: One machine per crate
- Part Number:
17-6800 (115V/50-60 Hz)
17-6850 (230V/50-60 Hz)
- Weight without the battery: 390 lbs. (177 kg)



ATLAS WALKER

- Packaging: One machine per crate
- Part Number:
17-6600 (115V/50-60 Hz)
17-6650 (230V/50-60 Hz)
- Weight without the battery: 365 lbs. (165.6 kg)



ATLAS

- Packaging: One machine per crate
- Part Number:
17-6500 (115V/50-60 Hz)
17-6550 (230V/50-60 Hz)
- Weight without the battery: 331 lbs. (150.1 kg)



IKON WALKER

- Packaging: One machine per crate
- Part Number:
17-6400 (115V AC/50-60 Hz)
17-6450 (230V AC/50-60 Hz)
- Weight without the battery: 350 lbs. (167.8 kg)



IKON

- Packaging: One machine per crate
- Part Number:
17-5900 (115V AC/50-60 Hz)
17-5950 (230V AC/50-60 Hz)
- Weight without the battery: 330 lbs. (149.7 kg)

BATTERY SPECIFICATIONS

ATLAS PRO / ATLAS / ATLAS WALKER

- 158-1634B (Orange) 44.4 Ah | 29 lbs. (13.1 kg) - Standard
- 158-1634C (Yellow) 59.2 Ah | 39 lbs. (17.6 kg) - Upgrade

IKON / IKON WALKER

- 158-1634B (Orange) 44.4 and 59.2 Ah | 29 lbs. (13.1 kg) - Standard
- 158-1634CU (Yellow) 44.4 and 59.2 Ah | 39 lbs. (17.6 kg) - Upgrade

LANE MACHINE COMPARISON CHART

	ATLAS PRO	ATLAS WALKER	ATLAS	IKON WALKER	IKON
SMART FEATURES					
Kegel Smart ID user integration	✔	✔	✔		
Compatible with Smart Link Desktop Application	✔	✔	✔		
Remote access for technicians to view diagnostic information	✔	✔	✔		
Automatic software updates	✔	✔	✔		
Powered by Kegel Cloud Servers	✔	✔	✔		
Onboard Backups	✔	✔	✔		
Real-time automatic speed adjustments	✔	✔	✔		
Enhanced lane-skipping capability	✔	✔	✔		
LED Error Indication System	✔	✔	✔		
Dual pattern selection for lane skipping	✔				
Multi-function customizable LEDs	✔				
Compatible with Smart Link Mobile App	✔				
COMPONENTS / OPERATING SYSTEM					
Custom Control Board with simplified wiring	✔	✔	✔		
Industrial Controller	✔	✔	✔		
Kegel Lane Machine Operating System	✔	✔	✔		
Simple embedded inputs and outputs	✔	✔	✔		
Split input system for faster processing	✔	✔	✔		
Remappable outputs and inputs	✔	✔	✔		
Complete relay isolation (single-function)	✔	✔	✔		
User interface for enhanced user experience and machine functionality	✔	✔	✔		
Full color touchscreen display	10"	10"	10"	3.5"	3.5"
Zero latency, super responsive touchscreen	✔	✔	✔		
Test input/output menu option	✔	✔	✔	✔	✔
Type of error messages	FULL DETAIL PER LANE	FULL DETAIL PER LANE	FULL DETAIL PER LANE	SIMPLE	SIMPLE
PATTERN MANAGEMENT					
Onboard Access to Kegel's Pattern Library	✔	✔	✔		
Ability to send patterns from Kegel Pattern Library Mobile App to machine	✔	✔	✔	✔	✔
Patterns stored in memory	UNLIMITED	30	30	15	15
Number of pattern sessions for AM and PM	UNLIMITED	UNLIMITED	UNLIMITED	1	1
Upgraded 7-Day Planner & Pattern Designer	✔	✔	✔		
Encoder-managed oil head for increased precision	✔	✔	✔		
Improved Pattern Report	✔	✔	✔		
Automatic burn pair	✔	✔	✔	✔	✔
Ability to send patterns from Kegel Smart Link Mobile App to machine	✔				
CONDITIONING					
High-speed ethernet-controlled driver for more accurate oil application	✔	✔	✔		
Sanction Technology™ fluid metering conditioning system	✔	✔	✔	✔	✔
Conditioner float switches with low-level warning message	✔	✔	✔	✔	✔
Computer-controlled variable mic oil pumps	✔	✔	✔		
Computer-controlled oil pump calibration	✔	✔	✔		
DUO transfer system (roller and single transfer brush)	✔	✔	✔	✔	✔
Board-to-board pattern control	✔	✔	✔	✔	✔

	ATLAS PRO	ATLAS WALKER	ATLAS	IKON WALKER	IKON
Pattern verification capability	✓	✓	✓	✓	✓
Dual Oil Tanks	✓				
Ability to alternate two conditioners per load screen	✓				
Quick Change Buffer Brush	✓				
Variable Buffer Speeds	✓				
CLEANING					
Easy to remove vacuum motor	✓	✓	✓		
Sprayless cleaning system	✓	✓	✓	✓	✓
Cleaner float switches with low-level warning message	✓	✓	✓	✓	✓
Large waste recovery tank (50+ lanes before emptying)	✓	✓	✓	✓	✓
Patented cushion roller wrap for better cleaning	✓	✓	✓	✓	✓
Squeegee cartridge for easy replacement of blades	✓	✓	✓	✓	✓
Multi-adjustment squeegee assembly	✓	✓	✓	✓	✓
Self-mixing cleaner system	✓				
DRIVE					
Omni Wheel for better lane-to-lane transitions	✓	✓			
Smoother whisker reaction controlled by OS	✓	✓			
Zero Turn Radius lane-to-lane walking function	✓	✓		✓	
Auto-aligning lane whiskers	✓	✓		✓	
Universal speed controls	✓	✓	✓		
Independent drive motors and control for easy motor balancing using the user interface	✓	✓			
Patented six variable drive speeds	✓	✓	✓	✓	✓
Backend adjustable cleaning speed	✓	✓	✓		
Smart processor auto-align memory				✓	
Front safety object detection	✓	✓		✓	
SPECIAL FEATURES					
Extruded aluminum cleaner and oil bar	✓		✓		
Proprietary designed relay board	✓	✓	✓		
Wi-Fi	INTEGRATED	INTEGRATED	INTEGRATED	EXTERNAL KIT	EXTERNAL KIT
2 lithium battery options based on number of lanes conditioned per day	✓	✓	✓	✓	✓
Chassis style pc plate (centerplate) with minimal exposed wires/connections for simplified inside look	✓	✓	✓		
Tank light	✓	✓	✓	✓	✓
Real-time Automatic Buffer Speed Adjustment	✓				
Built-in hotspot	✓				



BONUS WARRANTY FOR ATLAS & IKON

Receive an 18 month warranty with an additional 18 months if you agree to only use Kegel lane maintenance products in your lane machine.



CROSSFIRE (6 Pad Model D)

- Packaging: One machine per crate
- Part Number:
 - 17-5200D (115V AC/60 Hz)
 - 17-5250D (230V AC/50 Hz)

Optional Upgrade Kit

Increase to 8 Wick Pads and Conditioner Capacity to 60 lanes

158-8214 - 8-PAD UPGRADE KIT

158-8241 - 8-PAD AND CONDITIONER TANK UPGRADE KIT - 115V AC

158-8241E - 8-PAD AND CONDITIONER TANK UPGRADE KIT - 230V AC

158-8215 - CONDITIONER TANK UPGRADE KIT - 115V AC

158-8215E - CONDITIONER TANK UPGRADE KIT - 230V AC



Lane Machine Assist

One person can quickly and easily raise and lower their lane machine safely.

Physical Properties:

- Color: Black
- Dimensions: Width: 60" | Height: 8" | Depth: 8"
- Lifting Capacity: Any Kegel Lane Machine
- Packaging: Assembled and ready to mount

Part Number: 154-8510

(Must be installed by a qualified contractor.)

Bracket Kit for all models

Part Number: 154-8520

Replacement Strap Kit

Part Number: 154-8519

SMARTLINK

Smart Link is a revolutionary new way to manage your lane machine. Use the desktop or mobile app to adjust your lane machine settings and review detailed information about machine performance. Need troubleshooting or pattern assistance? Allow Kegel or distributor technicians access to your machine via Smart Link to perform machine diagnostics remotely. Settings are easily implemented with the integrated Wi-Fi connection for a smooth and seamless way to be the master of your lane machine.



Lane Conditioners

SANCTION® CONDITIONERS



Whether you want more hook, less hook, or something in-between,
the perfect lane condition is up to you



CURRENT™



- Viscosity: 52.0 cps.
- Surface Tension: 23.3 dyn/cm
- Shipping Weight: 40 lbs. (18.1 kg)
- One Container: 1.25 gallon (4.73 liters)
- Packaging: 4 containers per case
5 gallons (19 liters)

Part Number: 156-8175



TERRAIN™



- Viscosity: 81.0 cps.
- Surface Tension: 23.2 dyn/cm
- Shipping Weight: 40 lbs. (18.1 kg)
- One Container: 1.25 gallon (4.73 liters)
- Packaging: 4 containers per case
5 gallons (19 liters)

Part Number: 156-8185



FIRE™



- Viscosity: 45.1 cps.
- Surface Tension: 23.6 dyn/cm
- Shipping Weight: 40 lbs. (18.1 kg)
- One Container: 1.25 gallon (4.73 liters)
- Packaging: 4 containers per case
5 gallons (19 liters)

Part Number: 156-8135



ICE™



- Viscosity: 40.9 cps.
- Surface Tension: 23.2 dyn/cm
- Shipping Weight: 40 lbs. (18.1 kg)
- One Container: 1.25 gallon (4.73 liters)
- Packaging: 4 containers per case
5 gallons (19 liters)

Part Number: 156-8130

Lane Conditioners

SANCTION® CONDITIONERS



- Viscosity: 55.0 cps.
- Surface Tension: 22.0 dyn/cm
- Shipping Weight: 40 lbs. (18.1 kg)
- One Container: 1.25 gallon (4.73 liters)
- Packaging: 4 containers per case 5 gallons (19 liters)

Part Number: 156-8145



- Viscosity: 36.5 cps.
- Surface Tension: 23.1 dyn/cm
- Shipping Weight: 40 lbs. (18.1 kg)
- One Container: 1.25 gallon (4.73 liters)
- Packaging: 4 containers per case 5 gallons (19 liters)

Part Number: 156-8115



- Viscosity: 47.3 cps.
- Surface Tension: 22.7 dyn/cm
- Shipping Weight: 40 lbs. (18.1 kg)
- One Container: 1.25 gallon (4.73 liters)
- Packaging: 4 containers per case 5 gallons (19 liters)

Part Number: 156-8025

WICK-PAD & SANCTION® CONDITIONERS



- Viscosity: 31.2 cps.
- Surface Tension: 23.7 dyn/cm
- Shipping Weight: 40 lbs. (18.1 kg)
- One Container: 1.25 gallon (4.73 liters)
- Packaging: 4 containers per case 5 gallons (19 liters)

Part Number: 156-8095



- Viscosity: 31.3 cps.
- Surface Tension: 23.5 dyn/cm
- Shipping Weight: 40 lbs. (18.1 kg)
- One Container: 1.25 gallon (4.73 liters)
- Packaging: 4 containers per case 5 gallons (19 liters)

Part Number: 156-8125



- Viscosity: 24.1 cps.
- Surface Tension: 23.6 dyn/cm
- Shipping Weight: 40 lbs. (18.1 kg)
- One Container: 1.25 gallon (4.73 liters)
- Packaging: 4 containers per case 5 gallons (19 liters)

Part Number: 156-8105

Conditioner Comparison

SANCTION TECHNOLOGY™									
PROPERTIES	TERRAIN	CURRENT	FIRE	ICE	CURVE	NAVIGATE	INFINITY	PRODIGY	DEFENSE-S
VISCOSITY (at 72.5 °F / 22.8 °C)	81	52	45.1	40.9	55	31.3	36.5	31.2	47.3
CHARACTERISTICS									
Lineage (Best for)	Any	Any	League / Tournament	League / Tournament	League	Open Play / League	League / Tournament	Open Play	League
Average Pin Calls	Low/None	Low/None	Low/Medium	Low/Medium	Low	Low	Medium	Low/None	High
Cleanability	Moderate	Difficult	Easy	Easy	Moderate	Easy	Moderate	Easy	Difficult
LANE SURFACES									
High Friction Surfaces	Better	Best	Good	Best	Better	Better	Best	Better	Best
Medium Friction Surfaces	Best	Best	Better	Better	Best	Better	Better	Best	Better
Low Friction Surfaces	Best	Better	Best	Good	Better	Better	Good	Best	Good

WICK-PAD TECHNOLOGY			
PROPERTIES	NAVIGATE	PRODIGY	CROSSFIRE
VISCOSITY (at 72.5 °F / 22.8 °C)	31.3	31.2	24.1
WICKING TIME	13 minutes	14 minutes	10 minutes
CHARACTERISTICS			
Lineage (Best for)	Open Play / League	Open Play	Open Play / League
Average Pin Calls	Low	Low	Low
Cleanability	Easy	Easy	Easy
LANE SURFACES			
High Friction Surfaces	Good	Better	Best
Medium Friction Surfaces	Better	Better	Best
Low Friction Surfaces	Better	Best	Good

Lane Cleaners



DEFENSE CX4 S

- Designed for low friction surfaces and stronger backend reaction
 - pH: 11.3
 - Shipping Weight: 10 lbs. (4.5 kg)
 - One Container: 1 Gallon (3.79 liters)
 - Packaging: 1 container per case
- Part Number: 156-8435



DEFENSE-C®

- pH: 10.8
 - Shipping Weight: 42 lbs. (19.1 kg)
 - One Container: 2.5 gallons (9.4 liters)
 - Packaging: 2 containers per case
- Part Number: 156-8405



DEFENSE CX4

- Designed for high friction surfaces
 - pH: 12.9
 - Shipping Weight: 10 lbs. (4.5 kg)
 - One Container: 1 Gallon (3.79 liters)
 - Packaging: 1 container per case
- Part Number: 156-8425

Cleaner Cloth

EZ Core Technology makes changing cloth "Quick & EZ"! Stop handling dirty cloth and get ultimate cleaning results.

K2 Select Cleaner Cloth

- Color: White
- Roll Dimensions: 43" wide x 20 yards long
- Shipping Weight: 16 lbs. (7.2 kg)
- Packaging: 4 rolls per case

K3 Select Cleaner Cloth

- Color: White
- Roll Dimensions: 43" wide x 30 yards long
- Shipping Weight: 16 lbs. (7.2 kg)
- Packaging: 3 rolls per case
- Compatible with all non spray jet machines

Part Number:

K2 Select (Reusable PVC Core): 153-0047EZ

K3 Select (Reusable PVC Core): 164-0047EZ

K2 Kloth (Cardboard Core): 153-0047P

K3 KLOTH

Clean up to
50% more
lanes before
changing
rolls



Center Care Products



Spot On™ Pin Deck Spray

Spot On Pin Deck Spray helps you improve pin carry to eliminate off-spot pins and out-of-ranges. Purchase the gallon size which can be used manually with your favorite spraying device!

- One Container: 1 gallon (3.79 liters)
- Packaging: 1 container per case

Part Number: 156-8311



Balance™ Approach All-In-One

Balance is the all-in-one solution to maximize the performance of your synthetic approaches. With one product you can create an even and uniform surface for optimal slide conditions. Clean and condition your approaches in one simple application.

Use with a rotary buffer.

- One Bottle: 16 oz. (0.47 liters)
- Packaging: 4 bottles per case

Part Number: 156-8320



Revive Ball Cleaner

- Easy to use - spray on, wipe off
- Gentle on the skin
- Can be used on ALL bowling balls
- pH: 8.4

Part Number:

156-8768 - 8 oz. (0.236 liters) bottle

156-8768C - Case (12 - 8 oz. bottles)

156-8763 - 23 oz. (0.68 liters) bottle



PIN CLEANING MACHINE & CLEANER CONCENTRATE



- Cleans ALL types of bowling pins
- Includes attachment to sand base of pins
- Weight: 37 lbs. (16.7 kg)

Part Number:

17-0040 - 115V AC/60 Hz

17-0040E - 230V AC/50 Hz



- Cleans ALL types of bowling pins
- Not harmful to skin
- For use in ALL pin cleaning machines
- One Container: 1 gallon (3.79 liters)
- Packaging: One container per case
- Concentrated cleaner
- pH: 9.2

Part Number: 156-8800

Microfiber Utility Mops



These high performance microfiber mops grab dirt and dust for quick and easy cleaning. Perfect for cleaning in the pit, bowlers area, and elsewhere throughout your center. Machine-washable

- 18" Utility Mop only** - 159-4410
- 18" Utility Mop with Handle Assembly** - 159-4410C
- 24" Utility Mop only** - 159-4411
- 24" Utility Mop with Handle Assembly** - 159-4411C
- 36" Utility Mop only** - 159-4412
- 36" Utility Mop with Handle Assembly** - 159-4412C

Industrial Approach Mop



This industrial white approach mop is made of durable non-looped cotton strands that easily lift away dirt and dust. Recommended for wood approaches. Machine-washable.

- 24" Approach Mop only (White)** - 159-4430
- 24" Approach Mop with Handle Assembly** - 159-4430C
- 36" Approach Mop only (White)** - 159-4431
- 36" Approach Mop with Handle Assembly** - 159-4431C
- 48" Approach Mop only (White)** - 159-4432
- 48" Approach Mop with Handle Assembly** - 159-4432C

Gutter Mop



This white gutter mop is made of durable non-looped cotton strands. Recommended for all type gutters. Machine-washable.

- Gutter Mop** - 159-4400
- Gutter Mop Frame and Handle only** - 159-4400F
- Gutter Mop Complete with Frame and Handle** - 159-4400C

Frames and Jaws

- 18" Wire Frame** - 159-4450
- 24" Wire Frame** - 159-4451
- 36" Wire Frame** - 159-4452
- 48" Wire Frame** - 159-4453
- Handle Assembly Only** - 159-4455

Buffing Pads



Buffing Pad (White)

This 21" buffing pad is made with absorbent synthetic blended yarn. Gently clean away dust from less textured approaches.

Machine-washable.

Part Number: 159-4511



Buffing Pad (Green & White)

With green scrubbing stripes on both sides, this 21" buffing pad offers a little something extra. Perfect for more textured approach surfaces, this buffing pad allows you to gently loosen and remove dirt build-up from the pores of your approach.

Machine-washable.

Part Number: 159-4510

Coaching Tools



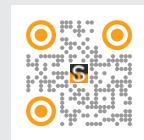
Specto is the premier tracking system for centers, bowlers, and coaches. It records information about bowlers' shots using an advanced sensor and displays it to them on an easy-to-use app. The free mobile app for iOS® or Android™ also includes the game-like modules Worlds and Challenges for a fun, customizable experience.



Controller and Protection Guard are not pictured.

Specto Tracking System - 157-8602 (90V AC - 260V AC / 50-60 Hz)

Scan this QR Code to see
Specto Requirements
for your center



Specto Go is a portable version of the tracking and practice system for centers, bowlers, and coaches. With all the great features of Specto and the added benefit of being able to take it on the go, this system is perfect for temporary set-ups and can be moved between different locations.

Specto GO Portable Tracking System - 157-8611 (90V AC - 260V AC / 50-60 Hz)

Tested Specto HD Sensor - 157-8607

CAT 5E Green Ethernet Cable - 60 Ft - 157-1604

Specto Processor w/Operating System - 157-8606

Specto Power Supply Extension Cable - 157-1605

Specto Sensor Power Supply - 157-1603

Specto Calibration Stick - 157-8604

Specto Sensor Guard Assembly - 157-8608

Specto Isolation Mount Bracket Assembly - 157-8603

Specto Go Conversion Kit (Specto Go to standard Specto System) - 157-8611K

Specto Go Laptop w/Software - 157-8605



Specto and Specto Go require a \$495 annual fee which covers cloud storage as well as software and mobile app updates.



The Torch-X is a light targeting tool used to help with accuracy and alignment. Using LED lights, it reflects a path of light on the lane to help you select the correct launch angle and hit your target time after time.

Torch-X Features:

- Multiple light color options
- Tilt bar for precision alignment
- 2-piece top assembly for height adjustments
- Trigger switch flashes light bar on and off or changes color when you hit your target

Torch-X Lane Complete System - 157-8810 (100V AC - 240V AC / 50-60Hz)



Torch Complete System - 157-8800 (100V AC - 240V AC / 50-60Hz)

Optional Battery Upgrade for Torch-X/Torch - 157-8801



The Arrow is a 3D Reference Tool that gives players a physical reference point to see when working on a variety of drills. Visualize your set-up position, pushaway, finish position and more!

Arrow - 157-8850

Bowling Ball is not included.

LEGEND

SUFFIX	MACHINE	SUFFIX	MACHINE
ATP	ATLAS PRO	FLX	FLEX 2013-15
ATW	ATLAS WALKER	KW	KUSTODIAN WALKER
AT	ATLAS	ION	KUSTODIAN ION
IKW	IKON WALKER	XF	CROSSFIRE
IKN	IKON	KP	KUSTODIAN PLUS
FWYEAR*	FLEX WALKER YEAR	KK	KUSTODIAN
FXYEAR*	FLEX YEAR	PX-C	PHOENIX C
FXW	FLEX WALKER 2013-15		

* YEAR represents the model year in the serial number.
Suffix represents all model variations unless model type is specifically indicated (i.e. KP-A).

Some models have been discontinued, making some parts unavailable. Models include Elite (ELT), Standard (STD), Elite Plus (EP), Phoenix (PX), Phoenix-S (PXS)

Cleaning

Recovery Tank - 164-8017 ATP | ATW | AT | IKW | IKN | FXW | FLX

Recovery Tank Filter (for tank 164-8017)

164-8017F - ATP | ATW | AT | IKW | IKN | FXW | FLX (FLX-17733 / FXW-13229 and ABOVE)

Recovery Tank - 153-8841 - XF

Recovery Tank Filter (for tank 153-8841) - 153-8844 - XF

Recovery Tank - 154-8683 - ION-A | KP-A | KK | PX-C

Folded Recovery Tank Filter (for tank 154-8683) - 154-8684

Recovery Tank - 158-8434 - ION-B | KP-B

Recovery Tank - 158-8617 - KW | ION-C,D

Recovery Tank Filter (for tanks 158-8434, 158-8617) - 158-0406

Recovery Tank Gasket (for tanks 158-8434, 158-8617, 164-8017) - 158-0405

O-Ring - 1-3/8 ID x 1/8 Cord Diameter (recovery tank flange) - 165-2013 ATW | AT



Upgraded Cleaner Mixing System

Complete Cleaner Tank Assembly - 164-8043

Complete Water Tank Assembly - 164-8041

Cleaner Pump Assembly for Concentrate
164-8027

Cleaner Tubing #14 for Super Concentrate
164-8025

Cleaner Tubing #16 for Regular Concentrate

164-8026

Supply Tank Cap

164-8081

Supply Tank Gasket

164-0021

Cleaning



Complete Cleaner Tank Assembly - 164-8042 - FXW | FLX
Complete Supply Tank Assembly - 154-8840 - XF | KK | PX-C
Complete Cleaner Tank Assembly - 158-8433C - ATW | AT | IKW | IKN | KW | ION-B,C,D | KP-B
Cleaner Supply Tank Only - 158-8433 - KW | ION-B,C,D | KP-B
Cleaner Supply Tank Assembly - 154-8894 - ION-A | KP-A
Cleaner Supply Tank Float Switch - 154-8693
Cleaner Tank Vent Valve - 154-8817
Cleaner Tank Vent Valve - 164-8852 - For upgraded IKONs and Atlas machines (Extends through 10-pin wall)
Complete Cleaner Tank Assembly - 165-8057 - ATP
Complete Water Tank Assembly - 165-8056 - ATP



Cushion Roller With Cloth Cover - 164-8839
Compatible with ATP | ATW | AT | ALL IKON | ALL FLEX | KW | ION | XF | KP
Use same part number to upgrade these models: **KK**
If ordering to upgrade KK you will need (2)
153-6421S spacers and hardware (153-2069).

Cushion Roller - 153-8838 - KK
Duster Roll Support Pipe - 153-0429
PVC Take-Up Reel - 153-8824
(Not required with K2/K3 Select Cloth)
PVC Take-Up Reel Clamp - 154-6248 (Not Pictured)

Complete Squeegee Assembly (Blue) - 153-0202D
(Includes inside and outside channel)
KW | ION | XF | KP | KK



Replacement Squeegee Blades & Gasket Kit - 164-8038K
ATP | ATW | AT | IKW | IKN | FXW | FLX (also for machines with upgraded Squeegee Cartridge)
Squeegee Gasket - 164-0003 - ATP | ATW | AT | IKW | IKN | FXW | FLX (for machines with upgraded Squeegee Cartridge)

Replacement Squeegee Blades - Blue Pair - 153-8204E
Replacement Squeegee Blades - Brown Pair - 153-8834

Cleaner Tip Hose Assembly - 164-8260
ALL NON-SPRAY JET MACHINES

Pin Deck Treatment Hose Assembly - 164-8228
FW | FX | FXW | FLX

Pin Deck Treatment Tip Cover - 164-2067
FW | FX | FXW | FLX

Cleaner Tip with Check Valve
164-0012M



Male Luer
1/8" Hose Barb - 154-0863



Sprayless Cleaner Pumps



Cleaner Pump Drive Motor
 154-8874 (115V AC)
 154-8875 (230V AC)
 158-8404 (24V DC)
Cleaner Pump Assembly - 158-8404D
Norprene® Tubing - 154-0861B
Cleaner Volume Control Valve - 154-1855
Concentrate Motor (Upgrade Only)
 164-8027 - FW | FX | FXW | FLX

Potentiometer for Cleaner Control

154-8846 - KP
 158-8413 - KW | ION

Complete Cleaner Pump Assembly

154-8859 (115V AC) - KP-A
 154-8859E (230V AC) - KP-A

Complete Cleaner Pump Assembly

158-8404C (24V DC) - KW | ION-A,B
 154-8847 (24V DC) - KP-B

Kustodian PLUS (Model A Only)
24V DC Cleaner Pump Conversion Kit
 154-8844 (115V AC)
 154-8845 (230V AC)



Cleaner Tank Filter - 154-0212B
1/2" O-Ring - 154-0287C

Cleaner Funnels

Cleaner Funnel - Long Stem
 158-8252
Cleaner Funnel - Short Stem
 154-8647
Cleaner Funnel - No Stem
 153-0252



Spray Jet Cleaner Pumps

Kegel Cleaner Spray Pumps
 158-8212 (115V AC)
 158-8213 (230V AC)



Cleaner Pump Repair Kit

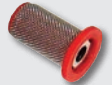
Valve/Diaphragm Kit for Kegel Pump
 158-8212K

Spray Jet Assembly

Tip Retainer - 153-0218
Spray Jet Body - 153-6252
Nylon Body - 153-0217



Screen Check Valve - 153-0220



Outside Spray Tip (1501) - 154-0007
Inside Spray Tip (8003) - 153-0207
Inside Spray Tip (11003) - 153-0207A



Universal In-Line Filter Assembly - 154-8867A
In-Line Filter Assembly - 154-8887
 IKW | IKN | KW | ION | KP

Cleaning System Tubing

(Sold by the Inch)
 1/4" - 153-0208S - for Spray Jet Machines
 1/4" - 154-0202C - Clear

LEGEND

SUFFIX	MACHINE	SUFFIX	MACHINE
ATP	ATLAS PRO	FLX	FLEX 2013-15
ATW	ATLAS WALKER	KW	KUSTODIAN WALKER
AT	ATLAS	ION	KUSTODIAN ION
IKW	IKON WALKER	XF	CROSSFIRE
IKN	IKON	KP	KUSTODIAN PLUS
FWYEAR*	FLEX WALKER YEAR	KK	KUSTODIAN
FXYEAR*	FLEX YEAR	PX-C	PHOENIX C
FXW	FLEX WALKER 2013-15		

* YEAR represents the model year in the serial number.
 Suffix represents all model variations unless model type is specifically indicated (i.e. KP-A).

Some models have been discontinued, making some parts unavailable. Models include Elite (ELT), Standard (STD), Elite Plus (EP), Phoenix (PX), Phoenix-S (PXS)

Cleaning

Cleaning Component Motors

Duster Motor (115V AC) - 153-8403 - KK | KP | XF
Duster Motor (230V AC) - 153-8803H - KK | KP | XF
Duster Motor (24V DC) - 158-8403 - ATP | ATW | AT | ALL IKON | ALL FLEX | KW | ION
Squeegee Motor (115V AC) - 153-8207 - KK | KP | XF
Squeegee Motor (230V AC) - 153-8807 - KK | KP | XF
Squeegee Motor (24V DC) - 158-8402 - ATP | ATW | AT | ALL IKON | ALL FLEX | KW | ION
Vacuum Motor (115V AC) - 154-8805 - KK | KP | PX-C
Vacuum Motor (230V AC) - 154-8805E - KK | KP | PX-C
Vacuum Motor (115V AC) - 158-8208 - XF
Vacuum Motor (230V AC) - 158-8208E - XF
Vacuum Motor (24V DC) - 158-8407 - ATP | ATW | AT | ALL IKON | ALL FLEX | KW | ION



Vacuum Motor Replacement Parts

Vacuum Housing - 153-0204H
Fan Blade - 153-0204F
Flexible Hose (Sold by the Inch) - 154-0260
Vacuum Motor Hose Assembly (2021) 164-8840
Squeegee Vacuum Hose Assembly (2021) 164-8841
Squeegee Vacuum Hose Assembly (2021 - with tapped hole for suction elbow) 164-8842
Vacuum Motor and Squeegee Hose Upgrade Kit (2021) 164-8843
Vacuum Motor and Squeegee Hose Upgrade Kit (2021 - with suction elbow) 164-8844
Brushes for Vacuum Motor (115V AC) - 153-0204B - KK | KP | PX-C | XF
Brushes for Vacuum Motor (230V AC) - 153-0204C - KK | KP | PX-C | XF
Brushes for Vacuum Motor (24V DC) - 158-1421B - ATP | ATW | AT | ALL IKON | ALL FLEX | KW | ION

Cleaning Component Speed Controls and Head Motor Drivers

Cleaner Speed Control (24V DC) - 164-8806 - ALL IKON
Cleaner/Water Speed Control (24V DC) - 164-8221 - FW 13-16 | FX 13-16
Cleaner Speed Control (24V DC) - 158-8415 - FXW | FLX | KW | ION
Cleaner Speed Control (24V DC) - 154-8848 - KP
Stepper Driver (BERG) - 158-1605 - ALL FLEX | KW-C,D | ION C,D

WHAT IS NEW IN SPECTO BOWLING?

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Conditioning

FLEX Conditioner Cartridge

(Complete with Valve Assembly) - 164-8015 (Pkg of 2)

FLEX Conditioner Cartridge

(Without Valve Assembly) - 164-8015A

Cartridge Plunger - 164-8015P

Cartridge Cap (with 38mm hole)

164-0004

Viton O-Ring for Cap

Viton O-Ring for Plunger (outside)

164-6079

Cable Carrier for Oil Head Assembly

164-9009- FW | FX

Flex Oil Tank Upgrade - Replace Cartridges with Solid Tanks

164-8261

FLEX Conditioner Sub Tank Float Switch

(For Old Style Molded Tank) - 154-8693

FLEX Conditioner Sub Tank Filter Assembly

(For Old Style Molded Tank) - 154-0212

Sub Tank O-Ring

(For Old Style Molded Tank) - 164-6173

Sub Tank Replacement Plug

(For Old Style Molded Tank) - 164-8082

Cylinder Sub Tank Upgrade Kit

164-8215

Cylinder Sub Tank Inline Filter Assembly

164-0215

Cylinder Sub Tank Float Switch

164-8237



Conditioner Transfer System

Single Conditioner Transfer Brush Assembly - 164-0866



Dual Conditioner Transfer Brush Assembly - 154-0866 - KW | ION | KP

Buffer Brush - 154-8641 - KW | ION | XF | KP | KK | PX-C

(Upgraded Transfer Brush to DUO System)

Buffer Brush - 164-8001 - FXW | FLX

Buffer Brush - 164-8001A - ATW | AT | IKW | IKN | FW | FX

Buffer Brush - 165-8059 - ATP

Transfer Roller - 154-8338 - PX-C

Transfer Roller - 154-8608 - KK

Transfer Roller - 158-8204 - XF

Transfer Roller - 164-8008 - ATW | AT | IKW | IKN | ALL FLEX

Transfer Roller Duo Upgrade - 158-8441

Transfer Roller Belt Duo System 100XL037- 154-9203

ATP | ATW | AT | IKW | IKN | ALL FLEX



Buffer Belt 315L050 - 164-9019 - ATW | AT | IKW | IKN

Buffer Belt 255L050 - 154-9615 - ION-A,B | KP | KK

Buffer Belt 225L050 - 153-9817 - PX-C

Buffer Belt 210L050 - 158-9201 - XF

Buffer Belt 263L050 - 158-9026 - KW | ION-D

Buffer Belt Standard 248L050 - 164-9006 - FXW | FLX

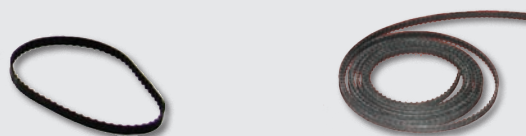
Buffer Belt for Variable Speed Upgrade 255L050- 154-9615 - FXW | FLX (FLX-17733 / FXW-13229 and ABOVE)

Buffer Belt for Variable Speed Upgrade 248L050- 164-9006 - FXW | FLX (FLX-17732 / FXW-13228 and BELOW)

Buffer Belt for Non-Variable Buffer 352L050 - 164-9016 - FW | FX

Buffer Belt for Variable Buffer 356L050 - 164-9017 - FW | FX

Buffer Belt - 153-9015 - ATP



Head Drive Belt - 154-9201

Compatible with ALL applications.

Conditioning

Fluid Metering Components

1. Pulse Suppression Assembly

164-8021 - FXW | FLX

154-8816 - ATW | AT | IKW | IKN | KW | ION | KP | KK

2. Pressure Gauge (60 psi) - 158-1613

3. Oil Control Valve (24V DC) - 154-1209 - ATP

Oil Control Valve (24V DC - Extended Wires & Fittings) - 154-8298

Oil Control Valve - 165-8020 - ATW | AT

4. Vent Valve

154-8817 - IKW | IKN | KW | ION | KP

164-8007 - FXW | FLX

164-8851 - For upgraded IKONs and Atlas machines (Extends through 10-pin wall)

5. Oil Tank Assembly with Fittings/Float

154-8682 - ATW | AT | IKW | IKN | KW | ION | KP

165-8063 - ATP

Oil Tank Assembly with Fittings

154-8842 - KK

6. Oil Tank Filter - 154-0212

7. Float Switch Assembly

154-1203 - XF

154-1203 - ATP

154-8693 - ATW | AT | IKW | IKN | FW | FX | FXW | FLX | KW | ION | KP | PX-C

8. Belt for Conditioner Pump Motor

154-9202A - ATW | AT | IKW | IKN | KP | KK (60Hz)

164-9008 - ALL FLEX

158-8615 KW-C,D | ION-C,D

154-9202A for KW-B

154-9608 for ION-B

154-9215 KP | KK (50Hz)

165-9009 ATP

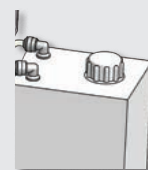
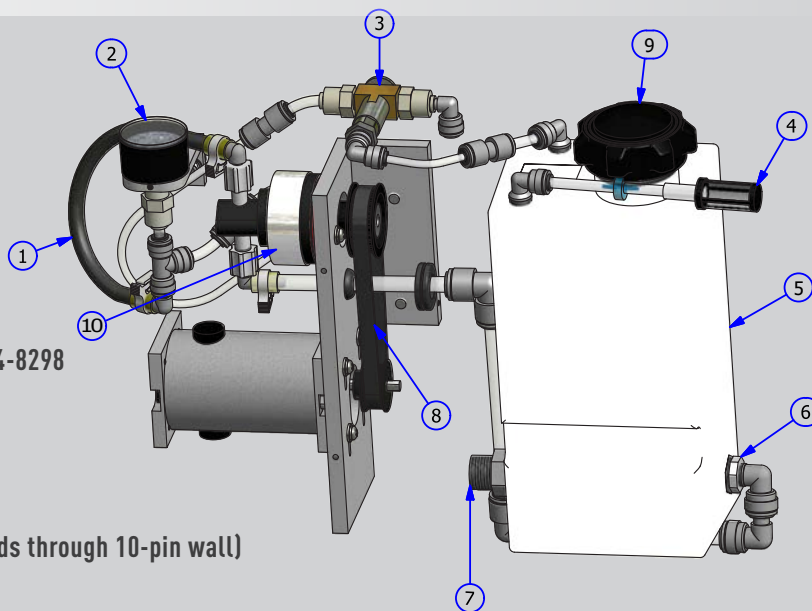
9. Oil Tank Cap Assembly (only for tank pictured in diagram)

164-8081 - Complete

164-0021 - Gasket only

10. Fluid Metering Oil Pump

154-8299 - All Sanction Machines



Oil Tank Cap Assembly

154-0832 - Complete

154-0832C - Cap only

154-0832G - Gasket only

Tubing

Conditioning System Tubing

(Sold by the Inch)

3/16" - 154-0202B

1/4" - 154-0202A

3/8" - 154-0202



Oil Tank Cap Wrench

164-6191 ATW | AT | ALL FLEX | ALL FLEX

Conditioner Head Tip & Hose Holder Assembly (includes tubing)

Oil Tip Assembly 164-8240 - FW | FX | FXW | FLX

3- 1/2" Tip Holder (Painted Machines with Transfer Roller) - 154-8883

4- 1/2" Tip Holder (Painted Machines with Transfer Brush) - 154-8851

5- 1/4" Tip Holder (Upgraded Transfer Brush Models) - 154-8896

Retaining Spring for Head - 153-2713

Oil Pencil Tip (Black Molded) - 154-6832

Graduated Cylinder (25ml) - 154-0215

Felt for Graduated Cylinder (25ml) - 154-0210

Graduated Cylinder (50ml) - 154-0215A

Felt for Graduated Cylinder (50ml) - 154-0210A

Oil Funnel with 3" Hose - 153-0052A

Conditioner Pump Motors

115V AC - 154-8604 - KP | KK

230V AC - 154-8604E - KP | KK

24V DC - 158-8401A - IKW | IKN | KW-A,B | ION-A,B

24V DC Stepper Motor - 158-8632 - ALL FLEX | KW-C,D | ION-C,D

Motor Assembly For Oil Head Or Conditioner Pump - 165-8030 - ATP | ATW | AT

Oil Pump Stepper Motor Driver - 165-8007 - ATP | ATW | AT

Motor Brushes for Conditioner Pump Motor

Bison® Motor Brushes (Black) - 158-1422B - KW-A,B | ION-A,B

Groschopp® Motor Brushes (Gray) - 158-1422G - IKW | IKN | KW-A,B | ION-A,B

(Note color of motor to ensure the correct brushes are ordered)

Head Drive Motors

115V AC - 154-8232 - KP | KK

230V AC - 154-8632 - KP | KK

24V DC - 158-8405 - IKW | IKN | KW-A,B | ION-A,B

24V DC Stepper Motor - 158-8632 - FW | FX | KW-C,D | ION-C,D

24V DC Stepper Motor - 164-8032 - FXW | FLX

Motor Assembly For Oil Head Or Conditioner Pump - 165-8030 - ATP | ATW | AT

Oil Head Stepper Motor Driver - 165-8007A - ATP | ATW | AT

Motor Brushes for Conditioner Head Motor

24V DC Brushes - 158-1404B - IKW | IKN | KW-A,B | ION-A,B

Brush Lift Motors

115V AC - 153-8207 - KK | KP | XF | PX-C

230V AC - 153-8807 - XF | KP | KK | PX-C

24V DC - 158-8402 - ATP | ATW | AT | ALL IKON | ALL FLEX | KW | ION

Buffer Motors

115V AC - 154-8616A - XF | KP | KK | PX-C

230V AC - 154-8616E - XF | KP | KK | PX-C

24V DC (Standard Bodine®) - 164-8414 - IKW | IKN | ALL FLEX (Non Variable Buff)

24V DC (Bodine® Kit with Motor) - 164-8252 - KW | ION

24V DC (Variable Buff) - 164-8014A - ALL FLEX (Variable Buff Upgrade)

(Kit is needed when going from a Baldor® Buffer Motor to the new Bodine® Buffer Motor - NOT needed for 164-8252)

Buffer Motor Assembly - 165-8019 - ATP | ATW | AT

Buffer Motor Brushes

Standard Bodine® Buff - 164-1254

Variable Bodine® Buff - 164-1246

Conversion Kit for going to Bodine® Motor

Bodine® Drive/Buffer Motor Replacement Hardware Kit - 164-8250

(Kit is needed when going from a Baldor® Buffer Motor to the new Bodine® Buffer Motor - NOT needed for 164-8252)

Buffer Speed Control and Head Motor Drivers

Variable Buffer Speed Control - 164-8225 - ALL FLEX with VB Upgrade

Stepper Driver (BERG) - 158-1605 - ALL FLEX | KW-C,D | ION C,D

PLC

PLC Components*



CP1H PLC (w/o Ports)- 158-1610P

CP1L PLC (115V AC - w/o Ports)*- 164-1230 - XF | KP-A,B | KK

CP1L PLC (24V DC - w/o Ports) - 164-1228 - KW-B | ION-B

Serial Port Converter for CP1 - 158-1610S

Analog Output - 164-1217 - FXW | FLX

Analog Adapter- 164-1218

ALL FLEX Machines with Buffer and/or Cleaner Upgrades

Communication Cable - 164-1235 - IKW | IKN | FW19-22 | FX19-22

Communication Cable - 158-1610D - FX16-18 | FXW | FLX

Communication Cable - 158-1610CC - KW C,D | ION C,D

Keypad Cable for CP1L and CPM2A - 154-8809

(When used for a CPM2A, use KOSI port top of PLC)

Replacement Battery CP1L and CP1H - 158-1610B

Replacement Battery Omron® PLC Battery - 154-1804 - CPM2A

Touchscreen Components



Touchscreen Display 10"- 165-8004 - ATW | AT

Touchscreen Display 7"- 164-8203 - FW19-22 | FX19-22

Touchscreen Protector 7"- 164-1245 - FW19-22 | FX19-22

Touchscreen Protector 5" - 158-1612 - FXW | FLX

Touchscreen Mounting Clip - 158-1610TC - FXW | FLX | KW-C,D | ION-C,D (set of 2)

Touchscreen Display - 164-8803 - IKW | IKN | XF

Touchscreen Protector - 164-1234 - IKW | IKN | XF



Touchscreen Display 5" - 158-1610T (OBSOLETE)

Touchscreen Upgrade 5" To 7" - 164-8086 - FXW | FLX

Touchscreen Upgrade 5" To 7" - 158-8675 - SPORT MODEL MACHINES

Replacement PLC Kits*

*The Omron® CPM2A PLC is no longer available and has been replaced by the Omron® CP1L PLC. A replacement kit has been designed to make the necessary modification in the event a new PLC is needed.

DC Conversion Kit - 158-8454 - KW A,B | ION A,B

AC Conversion Kit* - 158-8254 - XF-C | KP-A,B | KK | PX-C

Twido To CP1L Upgrade (w/ 3.5" touchscreen)

158-8255 - XF-A,B

Additional upgrade kits may be necessary for KK-A,B | KP-A,B
Contact Kegel for more information.

154-8853C – Relay Kit for Original Kustodian
(Version 9G and above) *If not already in machine this kit is needed for PLC upgrade

154-8853Z – Relay Kit for Kustodian Plus
(Version 9Z and above) *If not already in machine this kit is needed for PLC upgrade



Atlas Controller - 165-8018

LEGEND

SUFFIX	MACHINE	SUFFIX	MACHINE
ATP	ATLAS PRO	FLX	FLEX 2013-15
ATW	ATLAS WALKER	KW	KUSTODIAN WALKER
AT	ATLAS	ION	KUSTODIAN ION
IKW	IKON WALKER	XF	CROSSFIRE
IKN	IKON	KP	KUSTODIAN PLUS
FWYEAR*	FLEX WALKER YEAR	KK	KUSTODIAN
FXYEAR*	FLEX YEAR	PX-C	PHOENIX C
FXW	FLEX WALKER 2013-15		

Some models have been discontinued, making some parts unavailable. Models include Elite (ELT), Standard (STD), Elite Plus (EP), Phoenix (PX), Phoenix-S (PXS)

KOSI Kegel Online Support Interface



Wi-Fi Connectivity Kit - 164-8821B

FW16-18 | FX16-18 | FXW | FLX

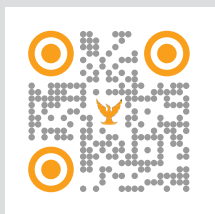
KOSI Communication Kit - 154-8771B

USB to Serial Converter

KOSI Cable (32 or 64 bit)



KOSI PRO Software



Get KOSI PRO for free at www.kegel.net



USB to Serial Converter

157-1057



KOSI Cable

(32 or 64 bit) - 154-8724

Batteries & Chargers

Kegel K2 Energy® Lithium Batteries



158-1634B (44.4 Ah)



158-1634C (59.2 Ah)

Batteries				
Machine Type	Lanes Per Charge	KEGEL Charger Being Used	Battery Available	Kit Needed
ION-A,B	Up to 62	Any	158-1634B	158-8654
KW-A,B	Up to 62	Any	158-1634B	158-8655
KW ION-C,D	Up to 62	Any	158-1634B	158-8655
	Up to 90	Any	158-1634C	158-8655
ALL IKON ALL FLEX ATW AT	Up to 62	ProNautic	158-1634B	None
	Up to 90	ProNautic	158-1634C	None



**ProNautic®
Chargers**

ProNautic® Chargers		
Machine Type	115V AC	230V AC
ION-A,B	158-8476*	158-8476E*
ION-C,D	164-8471P	164-8471PE
ATW AT ALL IKON ALL FLEX KW	164-8471	164-8471E

*This is a kit that includes the ProNautic® Charger along with the necessary hardware to convert your machine to an external charging unit as the internal unit is no longer available.

CVR Replacement Kit (2016 FLEX and later)

164-8210

CVR Replacement Kit (KW and ION)

164-8083

Converted DC to DC Step Up Assembly - CVR (FX18-121 / FW18-182 and later)

164-8209

**CVRs for all ION and WALKER models
contact Kegel.**

CVR Fuse Adapter - 164-8206

ProNautic DC Power Cord Assembly (6 ft. External)

164-8475



Battery Disconnect Housing - Red

158-1407 (1 ea.)



Charger or Machine Battery Disconnect Housing - Blue

158-1408 (1 ea.)



**6 ga. Terminal - 158-1407A
10 ga. Terminal - 158-1407T**

The disconnect housings automatically come with terminals for 10 ga. wire. If your lane machine has 6 ga. wire, order the 6 ga. terminals in addition to the housing.

Electrical Components



Power Cord Components

Description	115V AC	230V AC
Power Cord XF KP KK PX-C	154-8829	154-8830
Male Plug End (15A)	153-1025	153-1625
Male Plug End (20A)	153-1825	N/A
Female Twistlock Plug (15A)	153-1024	153-1624
Female Twistlock Plug (20A)	153-1822	153-1824
25' Charging Cord Assembly ION-A,B	158-8425	158-8425E



Push Button Replacements

Handle Button Replacement Assembly - 164-8013 - IKN | FLX

Handle Button Replacement Assembly - 153-8424A - XF

Handle Wire - 154-8893B - ION | KP

Handle Button Replacement Assembly - 154-8824 - KK

Power Up/Cleaner Test Button - 158-8439

IKW | IKN | ALL FLEX | KW-C,D | ION-C,D

Head Motor 6.0 μ F Capacitor

154-1208 - KP | KK

Oil Pump Motor 1.5 μ F Capacitor

154-1208B - KP | KK

Breakers



Rocker Breaker 10A - 154-1272

Rocker Breaker 15A - 154-1610

Blade Type Fuses

Fuse 25A - 158-1439 for CVR - KW | ION

Fuse 30A - 164-1214 for CVR on VB Upgrade and

Pro Nautic® Charger - IKW | IKN | FXW | FLX

Fuse 40A - 158-1440 for IOTA® Battery Chargers

Maxi-Fuse 40A (for Fuse Link) - 158-1454 - ION

Fuse Link Assembly - 158-8421 - ION

Clear Cover for Electrical Panel

164-6183 - FW16-18 | FX16-18 | FXW | FLX

164-6062 - FW19-22 | FX19-22

164-6815 - IKW | IKN

Speed Control Cover

158-6702 - KW-C,D | ION-C,D

Replacement LED Light Kits

FLEX Arrow Light - 164-8079

Tank Light - 164-8024 - IKW | IKN | FW | FX | FXW | FLX

Tank Light - 165-8021 - ATW | AT

Fuse & Relay Kit

With these kits, you will have many of the small electronic pieces needed to keep you going.

These kits contain all of the fuses used in the machine as well as fuse holders, spare relays, buttons, and switches.

154-8800F (115V AC)- KK-A,B

154-8800G (230V AC) - KK-A,B

154-8800J (115V AC)- KK-C

154-8800K (230V AC) - KK-C

154-8800R (115V AC) - KP

154-8800S (230V AC) - KP

154-8800C (115V AC) - XF

154-8800D (230V AC) - XF

158-8600F - KW-A,B | ION-A,B

158-8600G - KW-C,D | ION-C,D

164-8100F - FXW | FLX

164-8800F - IKW | IKN

Fuses

Panel Mount Fuse Holder (115V AC) - 153-1028

Fuse 0.5A (UL) - 154-1261

Fuse 0.5A Fast Acting (UL) - 154-1275

Fuse 0.75A (UL) - 154-1262

Fuse 1A (MDL) Ceramic - 155-1229C

Fuse 1.8A (UL) - 154-1265

Fuse 2.25A (UL) - 154-1266

Fuse 3.2A (UL) - 154-1267

Fuse 4A (UL) Ceramic - 154-1268C

Fuse 4A (UL) - 154-1268

Fuse 7.5A (UL) - 154-1270

Fuse 8A (UL) Ceramic - 154-1270C

Fuse 10A (UL) - 154-1273

Fuse 12A (UL) - 164-1269

Fuse 20A (UL) Ceramic - 154-1274C

Fuse 20A (UL) - 154-1274

Fuse 25A (MDA) Ceramic - 164-1222

Panel Mount Fuse Holder (230V AC) - 153-1028E

Fuse 315mA (IEC - 230V AC) - 154-1260E

Fuse 500mA (IEC - 230V AC) - 154-1261E

Fuse 1A (IEC - 230V AC) - 154-1264E

Fuse 1.6A (IEC - 230V AC) - 154-1265E

Fuse 4A (IEC - 230V AC) - 154-1267E

Fuse 6.3A (IEC - 230V AC) Ceramic - 154-1269C

Vacuum Motor Fuse Holder Kit (30A) - 164-8848

Buffer Motor Fuse Holder Kit (30A) - 164-8849

Vacuum & Buffer Motor

Fuse Holder (30A) - 164-8847

Fuse Holder (Vibration Resistant) - 165-1021 - ATW | AT

Electrical Components

Omron® Brand Relays



LY2 Relay
153-1016D (24V DC Coil)
LY2 Relay
153-1016 (115V AC)
153-1616 (230V AC)



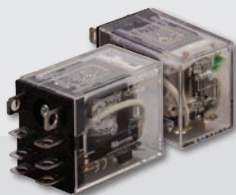
LY3 Relay
153-1018 (115V AC)
153-1618 (230V AC)



LY4 Relay
153-1406 (115V AC)
154-1611 (230V AC)



MY4 Relay
(24V DC)
158-1427

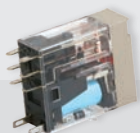


DPDT 10A
158-1462



PLC Output Relay (Short)
153-1032 (for Output Module OC221/OC222)
PLC Output Relay (Tall)
154-1215 (24V DC Coil - for Output Module OC222 only)

Omron® Relays for Sport Edition / FLEX / IKON Models



24V DC DPDT
158-1458



Solid State
158-1460



Super MY4 24V DC
(with Diode)
158-1463



LY3 Relay
(24V DC)
164-1231

Phoenix® Brand Relays



Secondary Relay Assembly
(24V DC)
154-1835 - KP | KK



2 Pole Relay
(10A - 24V DC)
158-1420G

Automation Direct® Relays



2 Pole Relay
(15A - 24V DC)
158-1413

Buffer Motor Contactor

115V AC
153-1004A (Din Rail Mount)

230V AC
153-1604A (Din Rail Mount)

Other Electrical Components



Duster Microswitch
(Large) 154-1603
IKN | FXW | FLX | KW | ION |
KP | KK | PX-C



Duster Microswitch
(Small) 153-1202
XF | PX-A,B



Microswitch
with Roller
153-1203
for ALL Machines



Squeegee Microswitch
(Large) 154-1015
PX-C



Arc Suppressor
158-1438



Proximity Sensor
154-1220

15K Resistor
(for cleaner speed control)
154-8848R

Proximity Sensor
158-1208 - XF-A



Power Contactor Diode - 165-8005 - ATW | AT



Contactor 24V DC
158-1465 - IKN | FXW | FLX
KW C,D | ION C,D
(Vacuum & Auto Shutdown
Relay)



Red Push Button
(Normally Open)
153-1408



Horsepower Resistor
0.025 Ω - 153-1015A
Horsepower Resistor
0.050 Ω - 153-1015



E-Stop Assembly for FLEX/IKON - 164-1223
(Includes Breaker, Black Box sold separately)
E-Stop Black Box for FLEX/IKON - 164-8261
FLEX E-Stop Breaker - 164-1223B
Prior to serial #FLX-17802 / FXW-13306 use part number 164-1223
(This will replace the discontinued Breaker and red triangle
shaped e-stop assembly)



2008 E-Stop (2-Hole Pattern)
154-1250A
Breaker for E-Stop
(2008 and later)
154-1251A

VOLTMETER TIPS



VOLTMETER SYMBOLS



Alternating Current
V AC

All 115V AC and 230V AC
machines that utilize a
power cord.



Direct Current
V DC

All battery operated
machines / also used to
drive AC powered machines.



Continuity Check

Used to inspect fuses and
circuitry. A beep will sound
when fuse or circuit is
closed.



BASIC VOLTMETER OPERATIONS

To check voltage:

1. Turn dial on the voltmeter to desired test.
2. Place each probe into the wires of the component you are testing and turn component on.

To check continuity:

1. Touch both probes together to inspect the voltmeter for proper function.
2. Place the test probes at each end of the circuit to be tested.
3. Voltmeter will sound if circuit is not broken. No sound if there is a break in the line.

TECH TIP:

Always inspect power
cord ends and battery
connections when
electrical problems
occur.

Electrical Components

MOLEX PLUGS

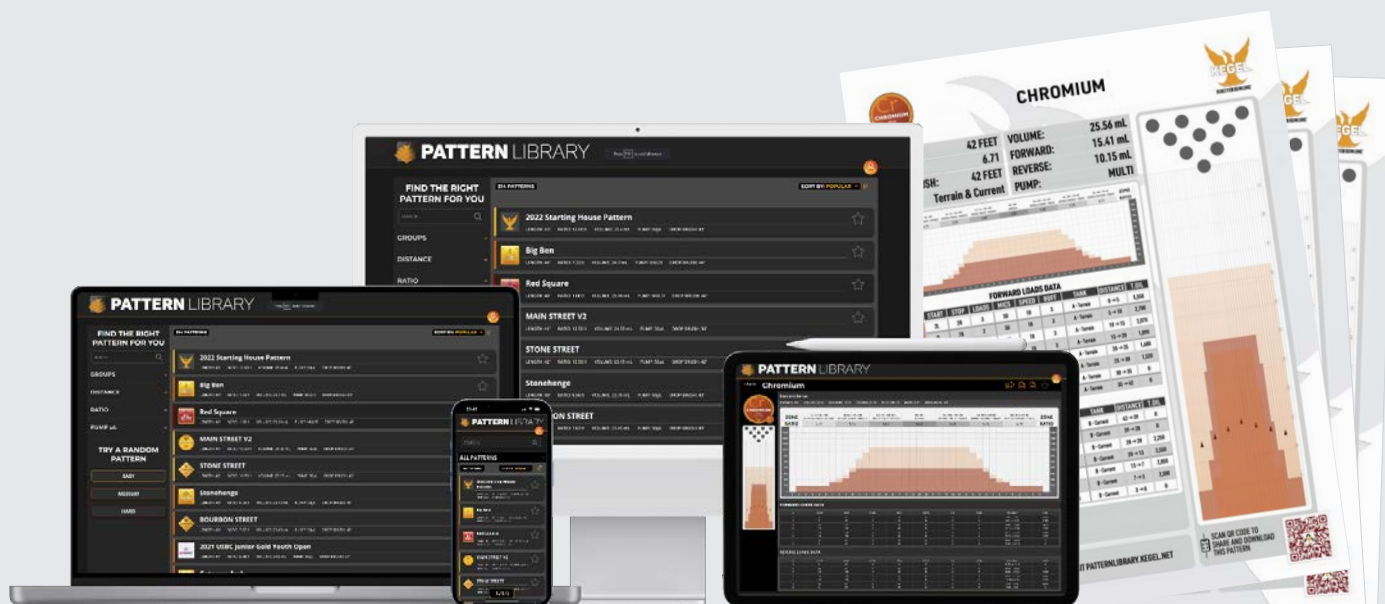


CONNECTOR	MALE	FEMALE
2 PIN	153-1041	153-1042
3 PIN	153-1044	153-1043
5 PIN	158-1206	158-1207
6 PIN	154-1231	154-1232
9 PIN	153-1039A	153-1040
12 PIN	153-1602A	153-1603
15 PIN	154-1807	154-1808
PINS	153-1046	153-1045
Pin Removal Tool		153-4002

HIGH AMP CONNECTORS



	PLUG	PIN
MALE	153-1063	153-1065
FEMALE	153-1064	153-1066



PATTERN LIBRARY

Check out Kegel's new Pattern Library:

Enhanced user experience - Simple search and sort options - Save your favorites

...And more!

patternlibrary.kegel.net

Upgrades

DUO™ Transfer System

Transfer Brush System to DUO System
158-8430F

Smoother Pad Transfer System to DUO System
158-8430N - Only painted machines with transfer roller



Complete Squeegee Cartridge Assembly
164-8038

Handle Mount Kit
164-8253- IKN | FLX

Handle Reinforcement Kit
154-8284 - ION A,B | KP | KK

Crossfire Upgrades

Complete Upgrade - Includes 8 Wicks with Cam Roller and Large Conditioner Supply Tank
158-8241 (115V AC) | 158-8241E (230V AC)

Conditioner Tank Upgrade
158-8215 (115V AC) | 158-8215E (230V AC)

8 Pad Wick & Cam Kit - 158-8214



Fail Safe Beam - 164-8827 - FXW | FLX

Sub Tank Upgrade - 164-8215
All FLEX Machines

Flex Oil Tank Upgrade - Replace Cartridges with Solid Tanks
164-8261



Oil Tank Cap Wrench
164-6191 - ATW | AT | ALL FLEX | ALL FLEX

LED Light Upgrade Kit for Supply Tanks

Easily monitor the level of supplies on machines with plastic molded tanks with this light that automatically illuminates when the splash guard is opened.
158-8672 - KW | ION | KP-A,B

Kustodian Upgrades

Head Relay Upgrade Kit
154-8853C - KK-C

Drop Brush Upgrade Kit
154-8853Z - KP

Kustodian Model A to C Upgrade Kit - 154-8870
Serial Number: KK-0600 through KK-0810

Kustodian Model B to C Upgrade Kit - 154-8871
Serial Number: KK-0811 through KK-0987



Spray Pressure Regulator Upgrade
154-8268



Spray Jet Cup Assembly Upgrade
154-8692

Duster Plug Stud Kit (Set)
164-8817

Cushion Roller Arm Stud Kit (Set)
164-8822

Wheel Upgrades



6" Front Wheel Upgrade
Large 6" front wheel helps the lane machine transition on and off the lane with ease.
158-8733 ION | KP-B

3" Caster Upgrade

Dual 3" rear casters allow for better machine transition on and off the lane.
158-8731 - KW | ION-C,D
158-8732 - ION-A,B | KP-B



Vent Valve Upgrade - 164-8850 IKN

Miscellaneous

Non-Adjustable Guide Rollers

Guide Roller - 153-8410
Guide Roller Shoulder Bolt - 153-2407
Guide Roller Mounting Bar - 153-6417
Guide Roller Spring - 153-2401
Plain Bushing - 153-9034
Flange Bushing - 153-9803

Adjustable Guide Rollers

Complete Front Assembly - 164-8846
Front Wheel Only (for 164-8846) - 164-8845

Complete Rear Assembly Black
164-8816 - all IKON and FLEX machines
Rear Wheel Only Black - 164-8815
Compression Spring - 164-2099
Complete Rear Guide Wheel Assembly White
158-8642 - KW-C,D | ION-C,D

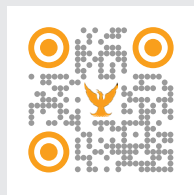


Replacement Guide Rollers for 158-8643

Front Wheel Only - 158-8637
Rear Wheel Only - 158-8636

Tune Up Kits

ATP | ATW | AT - 165-8036
IKW | IKN - 164-8800
FW19-22 | FX19-22 - 164-8030B
FW16-18 | FX16-18 - 164-8030A
FXW | FLX - 164-8030
KW - 158-8628
ION - 158-8428
KP (115V AC) - 154-8686
KP (230V AC) - 154-8687
KK | PX-C (115V AC) - 154-8888
KK | PX-C (230V AC) - 154-8888E
XF (115V AC) - 158-8288
XF (230V AC) - 158-8288E



Get more
information
about
Tune-Up Kits

Replacement Felt

Felt (1/8" x 3") - (Sold by the Inch) - 154-0228S
Felt (1/8" x 9") - (Sold by the Inch) - 154-0628S
Felt Strip on Splash Guard Tank - 154-8333 - PX-C Only
Felt Kit for Transfer and Spray Jet Wall - 154-8669 - KK
Felt Strip for Transfer Wall - 154-8669A - KW | ION | KP
Felt Kit - 164-8212 - FXW | FLX

Momentary Wheel Assembly



Wheel - 153-7005R
Shaft - 153-6006
Housing - 153-6029

Caster Wheels

Lane to Lane 2" Caster
153-0812A (Wheel Only)
Lane to Lane 2" Caster Replacement
158-8222 (all models prior to 2019)



6" Omni Wheel - 165-0001 - ATP | ATW



Lane to Lane 3" Caster
164-0022 - IKW | IKN | FX



Transport Caster
3" Dual Wheel (Black) - 153-0001BK
3" Dual Wheel (Gray) - 153-0001

Whiskers



Black Vinyl Cap - 153-2941 - IKW | FW | FXW | KW
Whisker Assembly
Left Whisker - 164-8824 - IKW | FW | FXW | KW
Right Whisker - 164-8825 - IKW | FW | FXW | KW
Left & Right Whisker only - 158-8624
IKW | FW | FXW | KW

Upgraded Whisker Assembly - 164-8826 - FXW | KW

Wicks



Glueless Wick Plate Assembly

3.125" - 153-8123

Only Compatible with PX-C

3.125" - 158-8223

Only Compatible with XF

5.125" - 153-8125

Only Compatible with PX-C

5.125" - 158-8225

Only Compatible with XF

7.125" - 153-8127

Only Compatible with PX-C

7.125" - 158-8227

Only Compatible with XF

10.125" - 158-8230

Only Compatible with XF



Not Pictured

45" Wick Material for Glueless Wicks - 153-0005B (5")

Wick Material Stock for Glueless Wicks - 153-0005D - XF

(Custom cut to be purchased by the inch)



Wick Spring (XF Only) - 153-2740

Solenoid Cable Assembly 8.25"
153-8812A (PX-C)

Transfer Roller Motors

153-8828 - 115V AC - XF

153-8829 - 230V AC - XF

154-8332 - 115V AC - PX-C

154-8332E - 230V AC - PX-C



Kegel Heavy Duty Hand Cleaner removes stubborn industrial soils, grease, oil, tar, paint, and even lane oil from the skin without harsh solvents.

162-8501: 2.5 Liter Bottle w/Dispenser

162-0500: 2.5 Liter Hand Cleaner Refill (for use with dispenser)

162-0501: Hand Cleaner Dispenser

162-0504: 13.5 oz. Bottle



Fittings



Elbow

1/4" Tube x 1/4" Tube - 154-0243



Elbow

3/8" x 3/8" - 154-0256



Elbow

3/8" NPT x 1/4" Tube - 154-0412
3/8" NPT x 3/8" Tube - 154-0803



Elbow

3/8" Tube x 1/4" NPT - 154-0225
1/4" Tube x 1/4" NPT - 154-0223



Elbow

1/4" Stem x 1/4" Hose Barb
154-0226



Elbow

1/4" Stem to 5/16" Hose Barb
154-0227



Elbow

3/8" Stem to 5/16" Hose Barb
154-0239



Elbow

3/8" Stem x 3/8" Tube - 154-0258
3/8" Stem x 1/4" Tube - 158-1214



Elbow

1/4" Stem x 1/4" Tube
154-0222



Elbow

1/8" NPT x 3/16" Tube
154-0613



Reducing Union

1/4" x 3/16" - 154-0248
3/8" to 1/4" - 154-0244



Bulkhead Union

3/8" x 3/8" - 154-0285
1/4" x 1/4" - 154-0221



Union

1/4" x 1/4" - 154-0241



Union Tee

1/4" Tube - 153-0815



Male Connector

1/4" Tube x 1/8" NPT - 154-0224
1/4" Tube x 1/4" NPTF - 154-0858
3/8" Tube x 1/4" NPT - 154-0814



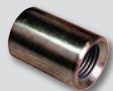
Female Connector

1/4" Tube x 1/8" FPT - 154-0257



Union Tee

3/8" Tube - 154-0815



In-line Coupler

1/8" - 154-0230



Stem Adapter

1/4" NPT x 1/4" Stem
154-0243S



Male Connector

1/2" Tube x 1/2" NPT (Drilled)
154-0232D



Tank Plug

1/4" - 154-0245
3/8" - 153-1054
1/2" - 154-0231



O-Ring for Fitting

1/4" - 154-0287A
3/8" - 154-0287B
1/2" - 154-0287C



Two-Way Divider

1/4" Tube - 164-0201

Hardware

HEX HEAD CAP SCREWS

					
1/4		5/16		3/8	
7/8"	153-2052	1"	153-2061	1"	153-2066
1"	153-2053	1 1/4"	153-2062	1 1/4"	153-2067
1 1/4"	153-2054			1 1/2"	153-2068
1 1/2"	153-2055			2"	153-2069

MACHINE SCREWS PHILLIPS

					
# 6		# 8		# 10	
1/2"	153-2081	5/8"	153-2086	3/4"	153-2091
7/8"	153-2083	3/8"	153-2086A	1"	153-2092
1"	153-2084	3/4"	153-2087		
1 1/4"	153-2085	1"	153-2089		
		1 1/2"	153-2090		

WASHERS

		FLAT	LOCK
	#6	153-2001	
	#8	153-2002	
	#10	153-2003	153-2013
	1/4	153-2004	153-2014
	5/16	153-2005	153-2015
	3/8	153-2006	153-2016

HEX NUTS

		STANDARD	NYLOK	JAM
	#6		153-2018	
	#8		153-2019	
	#10	153-2022	153-2208	153-2524
	1/4	153-2023	153-2020	153-2304
	5/16	153-2024	153-2735	5/16-18 153-2027A 5/16-24 153-2214
	3/8	153-2025	153-2021	153-2027
	1/2	153-2026		

NYLON WASHERS

1/4 X 0.060	153-2510
1/4 X 0.030	153-2510A
5/16 X 0.060	153-2709
3/8 X 0.030	153-2531
3/4 X 1/16	153-2939
3/4 X 1/8	153-2938

Lids & Side Guards

ATLAS / ATLAS WALKER

Sliding Lid Assembly (HEAD) - 165-8008
Sliding Lid Assembly (TAIL) - 165-8009
Back Panel - 165-8010 - ATW | AT
Back Panel - 165-8063 - ATP
Front Bumper - 165-8011
Right Side Guard - 165-8012
Left Side Guard - 165-8013
Right Upper Side Guard - 165-8014
Left Upper Side Guard - 165-8015
Right Side Guard - ATLAS WALKER - 165-8016
Left Side Guard - ATLAS WALKER - 165-8017

IKON Model (ALL)

Cleaner Compartment Lid - 164-8801
Oil Compartment Lid - 164-8802
Upper Right Guard - Non Walker - 164-8811
Upper Left Guard - Non Walker - 164-8812
Lower Right Guard - Non Walker - 164-8809
Lower Left Guard - Non Walker - 164-8810
Rear Panel - Non Walker - 164-8808
Right Guard - Walker - 164-8233-2133
Left Guard - Walker - 164-8232-2133
Rear Panel - Walker - 164-8830
Front Bumper - 164-8804

Replacement Machine Rear Frame Panels

FW | FX - 164-6004B-2850
IKW | IKN - 164-6806-2850
FXW | FLX - 164-6004-2850
KW-C,D - 158-6672-2850
KW-A,B - 154-6860B-2850
ION-C,D - 158-6672-2911
ION-B - 154-6860B-2911
XF - 158-6205-2133
KP-B - 154-6860B-2915

COLOR CODES	
BLUE	1525
BLACK	2850
RED	2911
WHITE	NO CODE

To order the correct color, place the color code number after the part number anywhere "xxxx" is listed.

FLEX 2016+ Model

Cleaner Compartment Lid - 164-8230-xxxx
Oil Compartment Lid - 164-8231-xxxx
Upper Right Guard - Non Walker - 164-6732-xxxx
Upper Left Guard - Non Walker - 164-6733-xxxx
Lower Right Guard - Non Walker - 164-8235-xxxx
Lower Left Guard - Non Walker - 164-8234-xxxx
Rear Panel - Non Walker - 164-8049-xxxx
Right Guard - Walker - 164-8233-xxxx
Left Guard - Walker - 164-8232-xxxx
Rear Panel - Walker - 164-8048-xxxx
Front Bumper - 164-8236-xxxx

FLEX 2013-2015 Model

Cleaner Compartment Lid - Red - 164-8031F
Cleaner Lid Compartment - Black - 164-8033F
Cleaner Lid Compartment - White - 164-8035F
Cleaner Lid Compartment - Blue - 164-8037F
Oil Compartment Lid - Red - 164-8031
Oil Compartment Lid - Black - 164-8033
Oil Compartment Lid - White - 164-8035
Oil Compartment Lid - Blue - 164-8037
Upper Right Guard - Non Walker - 164-6732-xxxx
Upper Left Guard - Non Walker - 164-6733-xxxx
Lower Right Guard - Non Walker - 164-8076-xxxx
Lower Left Guard - Non Walker - 164-8077-xxxx
Rear Panel - Non Walker - 164-8049-xxxx
Right Guard - Walker - 164-8074-xxxx
Left Guard - Walker - 164-8075-xxxx
Rear Panel - Walker - 164-8048-xxxx
Front Bumper - 164-8047-xxxx

KW | ION | XF | KP-B

Left Guard - KW - 158-6651
Right Guard - KW - 158-6650
Left Guard - ION-A,B | KP-B - 158-6418
Right Guard - ION-A,B | KP-B - 158-6419
Left Guard - ION-C,D - 158-6712
Right Guard - ION-C,D - 158-6711
Left Guard - XF - 158-6248
Right Guard - XF - 158-6249
Complete Lid - KP - 154-8892

Replacement Parts

Black Head Lid Decal - 164-0014
Black Tail Lid Decal - 164-0015
Silver Head Lid Decal - 164-0016
Silver Tail Lid Decal - 164-0017
FLEX Rear Wall Decals - 164-0008 (F-L-E) & 164-0009 (X)
Orange Head Lid Decal - 164-00140-714C
Orange Tail Lid Decal - 164-00150-714C
IKON Rear Wall Decals - Non Walker - 164-00230-714C (I-O-N) & 164-0024 (K)
IKON Rear Wall Decals - Walker - 164-0023W (I-O-N) & 164-0024 (K)
FLEX 13-15 Model Right Lid Track - 164-6118
FLEX 13-15 Model Left Lid Track - 164-6119
FLEX 16+ & IKON Model Right Lid Track - 164-6118A
FLEX 16+ & IKON Model Left Lid Track - 164-6119A
Lid Shim - 164-6170
Modified Spring Plunger - 164-2069M
FLEX 13-15 Model Left Cable Reels - 164-8039
FLEX 13-15 Model Right Cable Reels - 164-8040
FLEX 13-15 Model Lid Pivot Arm Plate (x2) - 164-8050A
FLEX 13-15 Model Right Pivot Arm - 164-6100A
FLEX 13-15 Model Left Pivot Arm - 164-6101A
Detent-Spring Plunger 3/8-16 Thread - 164-2002



**Flange Quarter
Turn Lid Latch**
154-0805



**Straight Quarter
Turn Lid Latch**
(With Slot) - 154-0804



Flush Mount Lid Latch
(With Lock) - 153-2232L



Push Latch with Key
154-0881

Bird Decal ATLAS (TOP - GOLD) - 165-0002
Bird Decal ATLAS (BOTTOM - GOLD) - 165-0003
Atlas Letter Decals For Back Panel - 165-0004
Fuse Decal ATLAS - 165-0005
Fuse Decal ATLAS WALKER - 165-0006

Drive Components

Drive Motors

24V DC (Bodine® 1.5" Shaft) - 164-8602B - IKN | ION-A,B
24V DC (Bodine® 2.5" Shaft) - 164-8602 - IKW (Left) | FW (Left) | FXW (Both) | FLX13-15 | KW-A,B | ION-C,D
24V DC (Bodine® 4.25" Shaft) - 164-8602A - IKW (Right) | FW (Right) | FX (Right)
90V DC (Baldor® to Groschopp® Kit) - 158-8260K - XF | KP | KK | PX-C
90V DC (Direct Replacement for Groschopp®) - 158-8260 - XF | KP | KK | PX-C
(If machine already has the Groschopp® motor then motor is only needed)
(Kit is needed when going from a Baldor® Drive Motor to the new Bodine® Drive Motor - NOT needed for 158-8260K)

Drive Motor Brushes

Bodine® - 164-1246
Groschopp® - 158-1260B

Conversion Kits for going to Bodine® Motors

Bodine Drive Motor Replacement Hardware Kit - 164-8250 - FW16+ (Left) | FX | ION-A,B | KW-C,D
Bodine Drive Motor Replacement Hardware Kit with Brackets - 164-8251A - IKN | FW16+ (Right) | FX16+
| FW13-15 (Right) | FX13-15 | KW-C,D | ION-S | KW-A,B (Right) | ION-A,B
-(Kit is needed when going from a Baldor® Drive Motor to a Bodine® Drive Motor - NOT needed for 158-8260K)
Drive Motor Replacement - 164-8251B - KW-A,B (Left) | KW-C,D (Left)
Bodine Drive/Buffer Motor Replacement - 164-8250A - ALL FLX 13-15 & FXW 13-15

Baldor® Motor Replacements Parts (Drive, Standard Buff and Variable Buff)

Real Seal - 154-1809D

Front Seal (Shaft Side) - 154-1809E

24V DC Drive/Variable Buff Motor Brushes - 158-1405B

24V DC Buffer Motor Brushes - 158-1406B

90V DC Motor Brushes - 154-1809B

Note: The Baldor® motors were discontinued and replaced with the current Bodine® motors

Speed Control Boards

164-8828 – IKW | ALL FLEX

164-8807 – IKN

158-8412 – ION-A,B

164-1242A – ALL KW | ION-C,D (RAW BOARD used in 164-8828)

158-1410 – RAW BOARD used in 158-8412

153-1012 (115V AC) – KP | KK | PX-C

153-1812 (230V AC) – KP | KK | PX-C

158-1212R (115v-230V AC) – XF

Atlas Circuit Boards

Kegel Relay Board - 164-1261

Drive Board Assy -165-8001

Water/Cleaner Board - 165-8002

I/O Control Board - 165-8032

Buffer Speed Control - 165-8035 - ATW | AT

Buffer Speed Control - 165-8050 - ATP

Circuit Board with Speed Relays

154-8810 (115V AC) – KP | KK

154-8811 (230V AC) – KP | KK

158-8409 (24V DC) – ION-A,B

CHAINS & ACCESSORIES				
DESCRIPTION	IKW	FLEX 13-15	FLEX 16 AND UP	KW
MAIN DRIVE	NA	154-9601 (40P41)	154-9601 (40P41)	158-9612 (40P43R)
LEFT SIDE ZTR	164-9018 (40P23)	153-9814 (40P33)	153-9044A (40P29)	158-9609 (40P55R)
RIGHT SIDE ZTR	153-9044A (40P29)	153-9444 (40P31)	164-9018 (40P23)	158-9609 (40P55R)
ZTR DRIVES ZTR WHEELS	NA	164-9005 (35P67)	164-9005 (35P67)	NA
SMALL ZTR DRIVES 6 TOOTH STAR	NA	164-9004 (25P55)	NA	158-9607
SPROCKET DUPLEX FOR ZTR	NA	164-9002	NA	NA
SECONDARY DRIVE	NA	164-9010 (35P83)	NA	NA
SECONDARY DRIVE SPROCKET	NA	164-9011	NA	NA
SECONDARY REAR DRIVE IDLER SPROCKET	NA	164-8005	NA	NA
ZTR KICKUP	164-9005 (35P67)	NA	NA	NA

MAIN DRIVE CHAINS	
MACHINE	PART #
IKON	154-9601 (40P41)
ION SPORT	158-9612 (40P43R)
ION B	158-9405 (40P45R)
KUSTODIAN PLUS	153-9814 (40P33)
KUSTODIAN	153-9814 (40P33)
CROSSFIRE	158-9203 (40P39)

MASTER LINKS	PART #	OFFSET LINKS
#25	153-9045	NA
#35	153-9046	158-9022
#40	153-9047	153-9048

Chains may require master and half links. Please contact Kegel with any questions.

REV: 202505

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backed by
a 2 Year
Warranty**

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