EROSPA

KELLY AEROSPACE X-DRIVE STARTERS

The X-Drive starter is newest in the light weight, high torque starter lineup from Kelly Aerospace. Targeted toward users that want one of the industries lightest but most powerful starter on the market, the X-Drive delivers the same high torque, low current draw, and superior duty cycle that had previously been available only to E-Drive customers. X-drive uses No Bendix, the same powerful permanent magnet motor as the E-drive, and is the lightest starter available. The X-Drive starter is FAA/PMA'd and



Features:

- · Weight: 7.6 lbs. Lightest Starter Available
 - No Bendix
- · Lowest Inrush & Operating Current Draw in the industry
- FAA/PMA
- Maintenance Free
- Aviation Solenoid
- · No Automotive parts used

- All metal gear train
- · Silver plated contacts reduce electrical arc-
- ing damage during engagement.
- 33% Higher Torque
- Superior Duty Cycle Environmentally tested under the most extreme conditions
- Available in Left or Right Solenoid mounts.

			1			
Only 7.6 lbs.			Description		Part N	D Price
l ightest Starter Available		Kellv X-Drive Starter SRB-9021		08-0627	1.	
9			Kelly X-Driv	e Starter SRB-90	08-0627	2.
			Kelly X-Driv	e Starter SRB-90	08-0627	/3 .
	ΑΡΡΙ ΙΓΑΤΙΩΝ ΠΑΤ	CIUDE	Kelly X-Driv	e Starter SRB-90	08-0627	74 .
200	AFFLIGATION DATA	aoibe	Kelly X-Driv	e Starter SRZ-90	08-0627	75 .
C 200	Solenoid to the Left: (X-Drive	e series: see figure 1)	Kelly X-Driv	e Starter SRZ-90	08-0627	76
1889 22	SRZ-9021	SRZ-9022	Kolly X-Driv	o Stortor SP7-00	08-0627	7
(17 Solor So	(12 Volt - 149 tooth)	(12 Volt - 122 tooth)				
Carl and	SRB-9021	SRB-9022	Kelly X-Driv	e Starter SRZ-90	08-0627	8 .
Call St	(24 Volt - 149 tooth)	(24 Volt - 122 tooth)				
FIGURE 1	Solenoid to the Right: (X-Dri	ve series: see figure 2)		<u>UKUSS-KEFEI</u>	KENCE CHAKI	
and	SRZ-9031	SRZ-9032	Sky-Tec P/N	X-Drive P/N	Sky-Tec P/N	X-Drive P/N
NG 32	(12 Volt - 149 tooth)	(12 Volt - 122 tooth)	122-12LS	SRZ-9022	149-12PM	SRZ-9031
N Contraction	SRB-9031	SRB-9032	122-12PM	SRZ-9032	149-24HT	SRB-9021
and and	(24 Volt - 149 tooth)	(24 Volt - 122 tooth)	122-24LS	SRB-9022	149-24LS	SRB-9021
200	(12/14 pitch works on a 14	9 tooth ring gear & 10/12 pitch	122-24PM	SRB-9032	149-24PM	SRB-9031
FIGURE 2	2 works on a 122 tooth ring gear.)		149-12LS	SRZ-9021		



KELLY AEROSPACE E-DRIVE STARTERS

Immune to Kick-Back Damage

· High performance field housing

· Rare earth neodymium magnets

Improved temperature stability

Small package

•9.5 lbs.

MZ-4225 MZ-6222

MZ-6224

Stronger flux field

There is no longer a need to replace overload devices (shear pins) after a kick-back event. The E-drive is unaffected by kick-backs saving hours of service time and replacement costs. The engine and starter are both protected by a proprietary torque limiting clutch drive design. Solid-State Solenoid Control The Printed Circuit Board (PCB) solenoid controller uses the latest in Surface Mount Technology (SMT) components.

Each control is environmentally hardened and tested under the most extreme conditions. The field serviceable unit eliminates mechanical contacts for improved reliability and longer life. Monitoring the health status of the engine, starter, battery, and operational duty cycle will soon become a reality through enhancements to our proprietary solenoid control system.

Design & Source Control on All Components

Kelly Aerospace believes in engineering products specifically for the aviation industry and has design and source control over all components. Absolutely no automotive aftermarket parts are used. Why trust a part supplied from the automotive market where design details frequently change? 2 YEAR UNLIMITED WARRANTY - NO CORE CHARGE



- High Performance Armature
- Increased commutator bar length
- Thin laminations
- · High quality magnetic alloy
- 12 & 24 volt winding configuration
- Redesigned Brush Holder
- Metal construction for heat sinking
- Offset brush position for increased brush contact area
- **APPLICATION CHART** E-Drive Number - Approved Alternative for the following: ERB-8012 FRB-8011 FR7-8011 FR7-8012 MHB-4001 MHB-4015 MZ-4205 MZ-4204 MHB-4002 MHB-4002 MZ-4206 MZ-6204 MHB-4003 MHB-6001 MZ-4207 MHB-4005 MZ-4217 MHB-4007 MZ-4218 MHB-4010 MZ-4219 MHB-4012 MZ-4221 MHB-4013 MZ-4224 MHB-4014 MZ-4222 MHB-4016 MZ-4223



- Starter system designed for maximum performance.
- Drive assembly integrates proprietary pinion gear, clutch, torque limiter, and actuator in one complete module.
- Available for coarse and fine pitch ring gears, clock-wise and counterclock-wise rotation.
- No periodic service or recurring maintenance required.

•9.5 lbs.

MODEL	DESCRIPTION	PART NO.	PRICE
ERZ-8011	Clockwise rotation, 12 Volt, 149 tooth - 12/14 Pitch Gear	07-01102	-
ERZ-8012	Clockwise rotation, 12 Volt, 122 tooth - 10/12 Pitch Gear	07-01103	
ERB-8011	Clockwise rotation, 24 Volt, 14 9 tooth - 12/14 Pitch Gear	07-01099	
ERB-8012	Clockwise rotation, 24 Volt, 122 tooth-10/12 Pitch Gear	07-01101	

MHB-4017

MHB-4019 MHB-4020