












# CH-47 CAPABILITIES



	<p><b>Triumph</b> specializes in the design, development, certification, manufacture and repair of fuel pumps, fuel metering units, fuel controls, and electronic engine control systems.</p>
	<p><b>Eaton's</b> broad portfolio of hydraulic, fuel, conveyance and actuation products provides a single source for power management</p>
	<p><b>Adams Rite Aerospace</b> has over 80 years experience offering door latching systems, flight controls, door handles, and oxygen tanks, masks, and regulators.</p>
	<p><b>Robertson Fuel Systems</b> develops crashworthy fuel systems, using research to develop systems that extend range with self-sealing capability, preventing post-crash fires and ballistic threats to save lives on the battlefield.</p>
	<p><b>Aero Fluid Products</b> offers a variety of valves including hydraulic, engine, pneumatic, bleed air, anti-ice, pressure regulating, and fuel along with cabin pressure controls and electromechanical and linear actuators.</p>
	<p><b>BAE Systems</b> is a leading provider of aircraft countermeasures, multiband radios, seating, and cockpit display systems</p>
	<p><b>Timken</b> engineered bearings include tapered, spherical, cylindrical, thrust, ball, plain, miniature, precision, and housed unit bearings that deliver strong performance, consistently and reliably.</p>
	<p><b>Hartwell</b> is a leader for latches and latching systems including engine cowlings, nacelles, and thrust reversers, as well as interior and exterior access panels, cargo doors, and interior stowage bins.</p>
	<p><b>RBC Bearings</b> offers a wide range of aerospace and defense products including precision bearings, seals, and components.</p>

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Triumph Thermal Systems (TTS) is a leading global manufacturer & supplier of heat exchange and transfer systems and components for temperature control in fuel, lubrication, hydraulic, environmental, and related systems; the aerospace industry's provider of choice for high-quality thermal management technologies worldwide since 1929.

## TRANSMISSION OIL COOLER

Triumph Thermal Systems Part Numbers for the CH-47 Transmission Oil Cooler include:

PART NUMBER	DESCRIPTION	NSN
UA537558-1	COOLER ASSY, TRANSMI	1615-01-113-0217
UA537559-1	COOLER ASSEMBLY, TRA	1615-01-112-5900
UA537601-1	COOLER, LUBRICATING OIL, ENGINE	2935-01-112-2978 / 2935-01-326-1750
UA537602-2	COOLER, LUBRICATING OIL, ENGINE	2935-01-112-2980 / 2935-01-325-7024
UA537603-2	COOLER, LUBRICATING OIL, ENGINE	2935-01-112-2979



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# CH-47 CAPABILITIES



PART NUMBER	NSN	DESCRIPTION
TES7831	5120-00-168-2237	INSERTER, SEAL
DS-936281	3120-01-130-7237	BUSHING, SLEEVE
608304	2995-00-867-5461	GEARBOX ASSEMBLY, ST
EA1320-085	1650-00-731-1570	VALVE, DIRECTIONAL F
MF77-3906-20S565-4	1650-00-945-0923	MOTOR, HYDRAULIC
MF004B007A	1650-00-945-0923	MOTOR, HYDRAULIC
3032171-001	4320-01-561-7214	PUMP UNIT, HYDRAULIC
T-232794	4920-00-082-8059	FIXTURE, ASSEMBLING
DS-922532	1650-01-130-7231	PISTON ASSY, PUMP
571273	4320-01-115-7025	HOUSING SUBASSEMBLY
353276	2995-00-201-3850	HOUSING ASSEMBLY, ST
429326	3110-01-214-9198	BEARING, BALL, ANNULAR
T300332	5120-00-916-5612	MANDREL, LOADING MOT
T-300332	5120-00-916-5612	MANDREL, LOADING MOT

PART NUMBER	NSN	DESCRIPTION
569775	4320-01-114-2160	MOTOR, HYDRAULIC UNI
MF1-009-18	4320-01-114-2160	MOTOR, HYDRAULIC UNI
382572	1650-01-115-3605	PLATE, VALVE
DS-936280	1650-01-130-7232	PLATE, PISTON RETURN
281741	1650-00-593-4785	PISTON, LINEAR ACTUATING CYLINDER
7165	3120-01-130-7237	BUSHING, SLEEVE
DS-936281	3120-01-130-7237	BUSHING, SLEEVE
7311-8	1650-01-130-9691	STOP, CAM
7311	1650-01-130-9691	STOP, CAM
DS-922532	1650-01-130-7231	PISTON ASSY, PUMP
7156	1650-01-130-7231	PISTON ASSY, PUMP
42CV15001	2995-00-136-2422	VALVE, FLOW CONTROL
4680-135	5331-01-005-0508	O-RING
53WK16008	2995-01-072-5918	STARTER, ENGINE, HYDR
7166-14	1650-01-214-9189	SEAT, PISTON
60950	1650-01-432-0843	MODULE ASSY APU



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THE POWER OF PARTNERSHIP



# CH-47 CAPABILITIES



*Adams Rite Aerospace*

Adams Rite Aerospace (ARA) designs and manufactures a wide variety of custom-engineered components and systems for the aerospace industry.

## ADAPTER, TIE DOWN

P/N 2254



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# CH-47 CAPABILITIES

## ROBERTSON FUEL SYSTEMS

A HEICO COMPANY

### CARGO MISSIONS CRASHWORTHY SURVIVABLE FUEL SYSTEMS

Robertson is proud to help safeguard CH-47 crews with battle-proven crashworthy fuel systems, each designed to the highest standards and built for self-sealing fuel containment, survivability and ease of installation.

### RSERFS CH-47 REDUCED SIZE EXTENDED RANGE FUEL SYSTEM



Average usable fuel  
515 gals



Dimensions  
58 x 42 x 64.5 in.

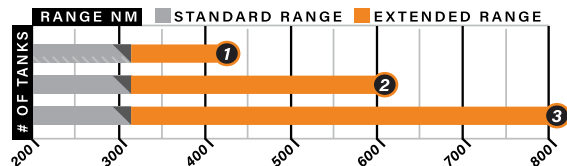


Estimated weight with restraint  
593 lbs.

- AIRCRAFTS: CH-47D/F/J/JA/SD/MH-47G CHINOOK  
CH-53E SUPER STALLION, CH-53K KING STALLION, AND  
CH-53G/GA SEA STALLION
- INSTALLATION OF UP TO 3 TANKS
- INSTALLATION AND REMOVAL IN APPROXIMATELY 15  
MINS PER TANK
- MIX & MATCH CAPABILITY WITH ERFS II
- SINGLE-POINT PRESSURE REFUELABLE WITH THE  
PRIMARY FUEL SYSTEM
- FUEL QUANTITY INDICATION SYSTEM AVAILABLE WITH  
CAAS COCKPIT
- CRASHWORTHY & SELF-SEALING IAW MIL-DTL-27422



APPROXIMATE RANGE EXTENSION



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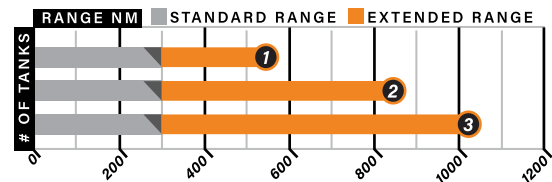
## ERFS II CH-47 EXTENDED RANGE FUEL SYSTEM

Average usable fuel <b>783 gals</b>	Dimensions <b>58 x 62 x 64.5 in.</b>	Estimated weight with restraint <b>735 lbs.</b>
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- AIRCRAFT: CH-47D/F/J/JA/SD/MH-47G CHINOOK, CH-53G/GA
- INSTALLATION OF UP TO 3 TANKS
- INSTALLATION AND REMOVAL IN APPROXIMATELY 15 MINS PER TANK
- SINGLE-POINT PRESSURE REFUELABLE WITH THE PRIMARY FUEL SYSTEM
- FUEL QUANTITY INDICATION SYSTEM AVAILABLE WITH CAAS COCKPIT
- CRASHWORTHY & SELF-SEALING IAW MIL-DTL-27422



APPROXIMATE RANGE EXTENSION



### SUPPORT EQUIPMENT

## FARE KIT

### FORWARD AREA REFUELING KIT

- REFUELS OTHER AIRCRAFT OR GROUND VEHICLES WITH MULTIPLE FORWARD AREA REFUELING STATIONS FROM THE CARRYING AIRCRAFT
- SELF-PRIMING 120 GPM CENTRIFUGAL PUMP MODULE
- UTILIZES 115/200 VAC, 400 HZ, 3-PHASE AIRCRAFT AUXILIARY POWER
- 592 LBS.



Dimension  
44 x 45.5 x 34.5 in.

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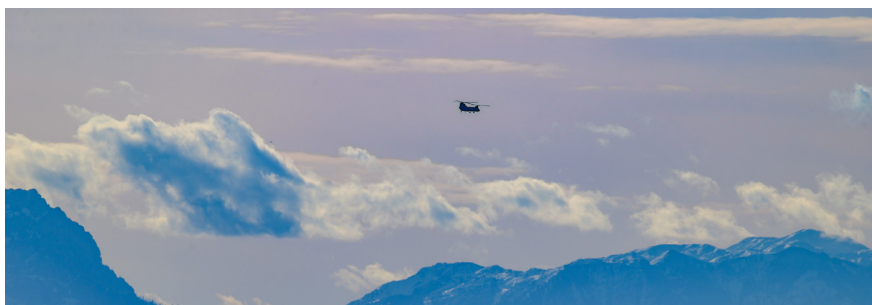


# CH-47 CAPABILITIES



## AEROFLUIDPRODUCTS

PART NUMBER	NSN	DESCRIPTION
787800-1	4820-01-126-9459	VALVE ASSEMBLY, SHUT



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# CH-47 CAPABILITIES

## BAE SYSTEMS

### AIRCRAFT ARMOR SYSTEMS

Unique and lightweight ceramic, transparent and soft aircraft armor solutions for fixed-wing and rotary-wing aircraft



Monolithic Armored Wing Panel



Monolithic Floor Armor Panel

#### KEY FEATURES

- MONOLITHIC ARMOR TECHNOLOGY ACCOMMODATES CURVATURES AND SAVES WEIGHT
- VARIETY OF ARMOR SYSTEMS AVAILABLE TO MEET SPECIFIC REQUIREMENTS
- INDUSTRY LEADER IN INTEGRATION AND QUALIFICATION OF COMPLEX ARMOR SYSTEMS MEETING STRINGENT CRASH, ENVIRONMENTAL AND IMPACT REQUIREMENTS
- LIGHTEST WEIGHT CERAMIC ARMOR TECHNOLOGY AVAILABLE
- UNMATCHED TRANSPARENT ARMOR TECHNOLOGY



Monolithic Wall Armor Panel

BAE Systems prides itself on over 30 years of experience in developing and manufacturing lightweight composite armor protection systems for military aircraft. Utilizing our expertise in ceramic composite armor, BAE Systems introduced the first successful military armored crashworthy crew seat for the UH-60 Black Hawk aircraft in 1977.



Floor Armor

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## COMPREHENSIVE DEVELOPMENT CAPABILITIES AND HIGH VOLUME MANUFACTURING

- ARMOR AND COMPOSITE PRODUCTION AREAS ENCOMPASS MORE THAN 100,000 SQ. FT.
- WORK IS COMPLETED BY A TEAM OF SKILLED TECHNICIANS TRAINED IN COMPOSITE FABRICATION TECHNIQUES AND SPECIFIC PRODUCT REQUIREMENTS
- ARMOR PRE-FIT AND BONDING OPERATIONS
- IN-HOUSE BALLISTIC TEST LABORATORY
- IN-DEPTH UNDERSTANDING OF AIRCRAFT INTEGRATION AND QUALIFICATION REQUIREMENTS

## TRANSPARENT ARMOR

BAE SYSTEMS HAS DEVELOPED AND PATENTED, AND IS PRODUCING A NEW LIQUID-CASTABLE TRANSPARENT POLYURETHANE, CLEARGARD<sup>®</sup>\*, WHICH PROVIDES SUPERIOR BALLISTIC PERFORMANCE WITH OPTIMAL CLARITY.

CLEARGARD'S ADVANTAGES ARE CHARACTERIZED BY:

- UNMATCHED MONOLITHIC PERFORMANCE
- LOWER DENSITY THAN ACRYLIC OR POLYCARBONATE
- HIGH-IMPACT RESISTANCE
- EXCELLENT OPTICAL CLARITY
- HIGH DUCTILITY
- HIGH THERMAL AND CHEMICAL RESISTANCE
- COMPATIBLE WITH A VARIETY OF DYE PACKAGES AND COATINGS
- CASTABLE TO COMPLEX SHAPES OR SHEET FORM

## STANDARD ARMOR FEATURES

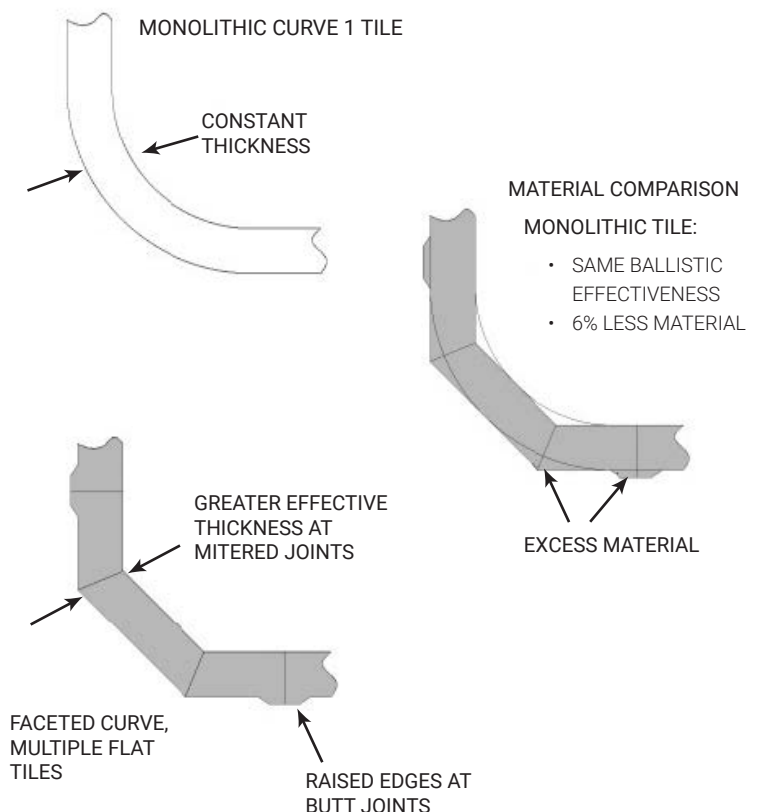
- LIGHTEST WEIGHT AND LOWEST AREAL DENSITY (WEIGHT PER UNIT AREA) IN THE INDUSTRY
- DEFEATS ARMOR PIERCING (AP) THREATS FOR 7.62 MM AND GREATER CALIBERS
- COMPLEX CURVATURES, UNUSUAL SHAPES AS WELL AS FLAT COMPONENTS
- FLEXIBILITY FOR HOLE SIZE AND LOCATION
- WIDE VARIETY OF QUALIFIED MOUNTING/ ATTACHMENT METHODS
- ENVIRONMENTALLY TESTED TO MIL-STD-810
- MEETS FAR 25 FLAMMABILITY REQUIREMENTS
- SECURED FOR CRASH AND IMPACT LOADS

## MONOLITHIC ARMOR

- OUR MONOLITHIC CERAMIC TECHNOLOGY ALLOWS FOR:
- MINIMUM AMOUNTS FOR MATERIAL FOR REDUCED WEIGHT
- ELIMINATION OF RAISED EDGES AND JOINTS
- MINIMIZED PARTS COUNTS AND COSTS
- RETAINED MULTI-HIT PERFORMANCE



## THE MONOLITHIC ADVANTAGE IS CLEAR:



\*Cleargard<sup>®</sup> is a registered trademark of BAE Systems

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## LOW PROFILE FLOTATION COLLAR

(LPFC)

BAE Systems' Life Preserver Unit (LPU) series of collars are the most advanced flotation collars manufactured today. Engineered for dependability and reliability, the LPUs have a proven performance history.

### FEATURES

- LOWER PROFILE AND SUPERIOR COMFORT OVER COMPARABLE SYSTEMS
- INCREASED NECK SIZE FOR GREATER MOBILITY
- CONSTRUCTION EXTENDS REPACK AND LOWERS INSPECTION CYCLE
- REDUNDANT FLOTATION CELLS ORIENT WEARER FACE-UP IN WATER (AUTO-ROTATION)
- BUOYANCY CELL DESIGN SUPPORTS 67 LB (30 KG) OF STEEL
- MODULAR COMPONENTS, REDUCE SPARES COSTS
- ADAPTS TO EXISTING VESTS AND RECOVERY PARACHUTE HARNESSSES
- USES IN-SERVICE, WATER-SENSING AUTO-INFLATORS\*
- MANUAL INFLATOR ENABLES USER EGRESS BEFORE DEPLOYMENT



	LPU 33/P	LPU 34/P	LPU 36A/P	LPU 37A/P	LPU 38/P	LPFT3H
P/N- Packed	-	0103100-3	-	0111100-3	-	0101100-1
P/N- Kit	0102200-1 <sup>1</sup>	0103200-3	0110200-1	0111200-3	0115200-1 <sup>2</sup>	0101200-1
NSN- Kit	-	4220-01-483-4390	4220-01-483-9381	4220-01-520-8058	4220-01-510-8555	-
Inflator	Automatic	Manual	Automatic	Manual	Automatic	Manual
Color Options	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan
Qualification	U.S. Navy	U.S. Navy	U.S. Navy	U.S. Navy	U.S. Air Force	U.S. Army
Notes	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3) Trainer system also available.	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)	Integrates with PCU-15/16 flight harness	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)

1. LPU 33/P and LPU 36A/P kits do not include FLU-8B/P automatic inflation device

2. LPU 38/P kit does not include FLU-9B/P automatic inflation device or CO<sub>2</sub> cylinders

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THE POWER OF PARTNERSHIP



# CH-47 CAPABILITIES

# TIMKEN

Timken is a leader in all bearing types, including ball, cylindrical, needle, tapered, thrust and spherical. Related products such as housed units, integrated bearing assemblies, precision assemblies and aerospace bearings offer additional features and performance capabilities.

As the leading authority on tapered roller bearings, The Timken Company applies its deep knowledge of metallurgy, tribology and mechanical systems to improve the reliability and efficiency of equipment, machinery and vehicles worldwide.



PART NUMBER	NSN	DESCRIPTION
MDPP4A1173	3110010957683	BEARING, BALL, AIRFRAME
A24390-001	3110010957683	BEARING, BALL, AIRFRAME
MDPP4FS464	3110010957683	BEARING, BALL, AIRFRAME
BS12ATC26	3120010069149	BEARING, PLAIN, SELF-ALIGNING
SBS12ATH26M	3120010069149	BEARING, PLAIN, SELF-ALIGNING

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Hartwell is the industry's first choice in the design and manufacture of quick access latching systems for aircraft and the first company that aircraft engineers call on for design assistance on all new latching applications.

Hartwell Corporation (83104) and Integrated Procurement Technologies have entered into an agreement to support military customer needs worldwide. This proactive partnership enables us to provide optimized solutions for high performance components to military operators around the world.

P/N	DESCRIPTION	NSN
102667-3		
H120P1-032-224	CATCH,FLUSH	5340-00-856-4424
H120P1-040-080	CATCH,FLUSH	5340-00-885-8726
H120P1-040-145	LATCH ASSEMBLY,AIRCRAFT	1560-01-618-5043
H120P1-040-224	LATCH,SNAPSLIDE FASTENER	5325-00-885-8680
H120P1-040-250	CATCH,FLUSH	5340-00-803-5322
H134K474	LATCH ASSEMBLY,PUSH	1560-00-856-7422
H134K852	CATCH,FLUSH	5340-00-849-4615
H134P1-156-531	CATCH,FLUSH	5340-00-856-4426
H2293K1492	CATCH,FLUSH	5340-01-333-7031
H2293K2363	LATCH ASSY DOOR IN	5340-32-074-2229
H274-21	LATCH,MORTISE	5340-00-794-0720
H312-1	LATCH,ASSEMBLY	5342-00-961-4435
H312-2	LATCH,ASSEMBLY	5342-00-961-4436
H313-1	LATCH,ASSEMBLY	5342-00-961-4437
H313-2	CATCH,FLUSH	5340-00-961-4438
H313-3	LATCH,SAFETY,HOOK	4030-01-394-3275
H313-4	CATCH,FLUSH	5340-01-212-9481
H324-1	LOCK	5340-01-333-6801
H324-19		
H324-9	LOCK	5342-00-738-4637
H339-1	LATCH ASSEMBLY,COCK	1560-00-885-8679
H346-1	CATCH,CLAMPING	5340-00-887-1522
H3799-1B	LATCH,MORTISE	5340-01-373-3728

P/N	DESCRIPTION	NSN
H386-5	LATCH,SAFETY,HOOK	4030-01-394-3273
H444-27	LATCH,ASSY,AIRCRAFT	1680-01-553-5553
H452-1		
H5000-2-032-064	CATCH,FLUSH	5340-00-598-2806
H5000-2-040-102	CATCH,FLUSH	5340-00-201-1780
H5100-2-051-179	CATCH,CLAMPING	5340-01-093-4081
H5200K950	LATCH,WORK PLATFORM	5342-00-119-4081
H560-1AE	CATCH,FLUSH	5340-00-176-0373
H560-3AE	CATCH,FLUSH	5340-01-216-9733
H560-3AEK4244	CATCH,FLUSH	5340-01-618-5042
H560-3BD	CATCH,FLUSH	5340-01-197-1743
H560K3085	REPAIR KIT,SHEAR PI	5342-01-357-6955
H6099DA040A	HINGE,BUTT	5340-01-182-9039
H739-11	KEEPER	
H876K1963	TOGGLE LATCH ASSY	
H882-1	CATCH,FLUSH	5340-00-874-2921
H9190S	CATCH,CLAMPING	5340-00-566-5272
H9380-9	CATCH,FLUSH	5340-01-618-5040
H976-7	LATCH ASSEMBLY	5342-01-028-0086
HA1259-1	CATCH,FLUSH	5340-01-618-5044
HA1259-2	CATCH,FLUSH	5340-01-618-5045
HA638-1	LATCH ASSEMBLY,AIRCRAFT	1560-01-498-3501
HA639-1	PIN,STRAIGHT,HEADLESS	5315-01-502-9380
H560-3AE	CATCH,FLUSH	5340-01-216-9733

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THE POWER OF PARTNERSHIP



# CH-47 CAPABILITIES



PART NUMBER	NSN	DESCRIPTION
MDPP4FS464	311010957683	BEARING, BALL, AIRFRAME
SBS12ATH26M	312010069149	BEARING, PLAIN, SELF-ALIGNING
BS12ATC26	312010069149	BEARING, PLAIN, SELF-ALIGNING
114R2130-2	311009545730	BEARING, ROLLER, NEEDLE
ESJ74656-9D	311009545730	BEARING, ROLLER, NEEDLE
TJ75223-9D	311013102258	BEARING, ROLLER, AIRFRAME
SWKN6-400 W	312010069149	BEARING, PLAIN, SELF-ALIGNING
177253	312008341507	BEARING, PLAIN, ROD END
114CS118-2	312008341507	BEARING, PLAIN, ROD END
03-825-06	312010069149	BEARING, PLAIN, SELF-ALIGNING
03-654-010E-002	312011250964	BEARING, PLAIN, SELF-ALIGNING

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