- **Specification and Description**"Exhibit A"





The Cessna 172S Skyhawk SP

Specification and Description

Dated January 2003

Beginning With Serial #172S9289



Introduction

This document is published for the purpose of providing general information for the evaluation of design, performance and equipment of the Cessna Skyhawk SP. Should more information be required, please contact:

Cessna Aircraft Company Single Engine Piston Aircraft 2603 S. Hoover Rd. Wichita, Kansas 67215 1-800-4-CESSNA www.se.cessna.com

This document supersedes all previous Specification and Description documents and describes only the Skyhawk Model 172S, its powerplant and equipment.

Also included are the warranties applicable to the Skyhawk Model 172S aircraft, the Textron Lycoming IO-360-L2A engine, the McCauley propeller and the OEM-installed Bendix/King avionics.

In the event of any conflict or discrepancy between this document and the basic purchase agreement, the basic purchase agreement language shall govern.

Due to the time span between the date of this Specification and Description and the scheduled delivery date of the aircraft, Cessna reserves the right to revise the "Specification" whenever occasioned by product improvements, government regulations or other good cause.

Manufacturer: Cessna Aircraft Company Model: 172S

General Description

All information herein applies to the Skyhawk SP (Model 172S).

The Skyhawk SP aircraft is an all-metal, single-engine piston, high-wing monoplane with a four-person seating capacity including a crew of one or two. Suitable allowance for luggage is provided.

The Model 172S is certified to the requirements of U.S. FAA Federal Aviation Regulation Part 23 including day, night, VFR and IFR.

Approximate Dimensions		Design Weights and Capacities	
Overall Height (max) 8'11"	(2.72 m)	Ramp Weight	
Overall Length	(8.28 m)	Normal category2,558 lbs	(1,160 kg)
Wing		Utility category	(1,002 kg)
Span (overall)	(11.00 m)	Takeoff Weight	
Area174 sq ft	(16.2 sq m)	Normal category	(1,157 kg)
Cabin		Utility category	(998 kg)
Height (max) 48"	(1.22 m)	Landing Weight	
Length (firewall to aft baggage area)142"	(3.61 m)	Normal category	(1,157 kg)
Width	(1.00 m)	Utility category	(998 kg)
Cabin Door		Standard Empty Weight ¹	
Height (front) 40.5"	(1.03 m)	Normal category	(746 kg)
Height (rear)	(.99 m)	Utility category	(746 kg)
Width (top)	(.83 m)	Maximum Useful Load	
Width (bottom)	(.94 m)	Normal category 914 lbs	(415 kg)
Baggage Door		Utility category564 lbs	(256 kg)
Height (front)	(.56 m)	Baggage Allowance120 lbs	(54 kg)
Height (rear)	(.53 m)	Fuel Capacity	
Width15.3"	(.39 m)	Total capacity56 gal	(212 L)
		Total usable53 gal	(200.6 L)
		Total capacity each tank 28 gal	(106 L)
Notes:		Total usable capacity each tank 26.5 gal	(100.3 L)
 Standard empty weight based upon: a) 0.6-mil primer on all details, 0.6-mil primer on all exterior surfaces and 2.0-mil paint on all exterior surfaces. 		Oil Capacity 8 qts	(7.6 L)
b) Engineering-defined standard aircraft.			

Skyhawk SP Standard Equipment List

The following list of equipment is included on the standard aircraft and it does not reflect optional equipment.

AVIONICS:

KMA-28 Audio Panel/Marker Beacon/Intercom

Cl-102 Marker Beacon Antenna

KX-155A NAV/COM without Glide Slope

KI-208 VOR/LOC Indicator

CI-128A VHF Antenna

NAV Antenna

KT-76C Transponder - Mode C

Cl-105 Transponder Antenna

SSD 120-30A Blind Encoder

Pointer 3000-11 Emergency Locator Transmitter (ELT)

Emergency Locator Transmitter (ELT) Whip Antenna

Emergency Locator Transmitter (ELT) Remote Mounted Switch

FN 300 Avionics Cooling Fan

Avionics Circuit Breaker Panel

Control Wheel Push-To-Talk Switch -

Pilot/Copilot

Mic & Phone Jacks
Pilot/Copilot/Passengers

Auxiliary Stereo Input Jack

ELECTRICAL POWER:

Alternator, 28 Volt, 60 Amp

Battery, 24 Volt, 12.75 AH, Manifold Type

Electrical Circuit Panel

- Ignition/Starter Switch, Key Operated
- Alternator/Battery Master Switch
- Split Avionics Master Switch
- Circuit Breakers, Electrical

· Switch Breakers, Electrical

Electrical J-Box

- Alternator Control Unit
- Ground Service Receptacle
- Starter Relay
- Alternator Relay
- Battery Relay
- Ground Power Relay

Auxiliary Power Jack - 12 Volt

ENGINE INSTRUMENTS:

Oil Pressure/Temperature

Ammeter/Vacuum

LH/RH Fuel Quantity

Fuel Flow/Exhaust Gas Temperature

Tachometer - Hour Recorder

Flight Hour Recorder

Annunciator Panel

- LH Low Fuel Light
- RH Low Fuel Light
- LH Low Vacuum Light
- RH Low Vacuum Light
- Low Oil Pressure Light
- Low Voltage Light

Annunciator Panel Test/Bright/Dim Switch

ENVIRONMENTAL:

Windshield Defroster, Pilot/Copilot

Ventilator, Adjustable (6 places)

Heating System, Shrouded Muffler

w/Firewall Valve

Soundproofing

EXTERIOR:

Epoxy Corrosion Proofing, All Structure

LH Door, Pilot w/Hinged Window,

Lock and Key

RH Door, Copilot w/Hinged Window

Baggage Door, w/Lock and Key

Rear Window

All Windows Tinted

Gear Jack Pads

Fixed Landing Gear

White Polyurethane Exterior Paint

Refueling Steps and Handles,

Wing Struts and Fuselage

Fixed Cabin Entrance Steps

Tie Down Rings, LH/RH Wing & Tail

Tube Type Tires

- Nose 5.00 X 5
- Mains 6.00 X 6

Conical Camber Wing Tips

Strut Braced, Camber Lift Wings

Static Wicks

EXTERIOR LIGHTS:

Ground Recognition - Vertical Tail

Navigation, LH/RH Wing Tip & Vertical Tail

Wing Tip Navigation Lights, Detectors,

LH/RH

Wing Tip Strobe, LH/RH

Landing and Taxi, LH Wing

Underwing Courtesy, LH/RH

FLIGHT CONTROLS:

Hydraulic Brakes, Toe-Operated

Parking Brake

Stainless Steel Control Cables

Pilot/Copilot All Purpose Control Wheels

Electrical Preselect - Flaps

Dual Flight Controls -

Aileron/Elevator/Rudder

Steerable Nose Wheel

Aileron and Elevator Lock

Elevator Trim (Manual & Electronic)

FLIGHT INSTRUMENTS:

Airspeed, w/True Airspeed

Attitude Gyro

Dual Mode Altimeter (In/Mb), Sensitive 20,000 ft.

Turn Coordinator, w/Slip Skid

Directional Gyro

Vertical Speed

Magnetic Compass

<u>Digital Clock</u>, w/OAT/Voltmeter/Flight

Time

Pitot System - Heated

Static System

Alternate Static Source

Dual Vacuum Pump System, Engine Driven

Audible Stall Warning System

FUEL SYSTEM:

Electric Auxiliary Fuel Pump

Engine Driven Fuel Pump

Integral Fuel Tanks, 53 Gal. Usable

Fuel Selector Valve, Left/Both/Right

Fuel Shutoff

Fuel Strainer, Incorporated with

Fuselage Quick Drain

Fuel Tank Quick Drain, 5 per wing

Fuel Sampler Cup

INTERIOR:

Dark Brown Leather/ Cordova Vinyl Seats w/Dark Beige Leather Insert

Seat Belts & Shoulder Harness,

Inertia Reel, All Seats

Pilot and Copilot Seats

- Adjustable Fore and Aft
- Reclining Backs
- Vertical Adjustment

Rear Seat Bench w/One Piece

Reclining Back

Kydex Upholstery w/Cloth Insert

Approach Plate Holder, Pilot Control

Wheel

Armrests - Pilot & Copilot

Doors/Passengers Side Wall

Wall-to-Wall Carpet

Pilot's Check List

Pilot's Operating Handbook

Fire Extinguisher, Hand Held

Glareshield w/Lighting

Clothes Hanger Bar

Metal Instrument Panel, w/Removable

Subpanels

Map/Glove Compartment

Baggage Net

Radio Call Plate

radio can i lato

Map & Storage Pockets

Sun Visors, Pilot/Copilot

Cup Holders - Passengers

Control Wheel Lock - Pilot/Copilot

Jepp Manual Storage Console w/Cup Holders

INTERIOR LIGHTING:

Avionics Instruments Internally Lighted

Avionics Radios Internally Lighted

Engine Instruments Internally Lighted

Flight Instruments Internally Lighted

Glareshield Lighting

Interior Lights Dimming Control

Map Light, Pilot Control Wheel

Cabin Overhead Lights,

Pilot/Copilot/Passenger

Compass Internally Lighted

Fuel Selector Lighting

POWER PLANT & ACCESSORIES:

Lycoming IO-360-L2A Engine

180 HP @ 2700 RPM (172S) Certified for 100LL & 100 Fuel

Fuel Injection System

Tubular Steel Engine Mount

Dynafocal Rear Mount

Automatic Alternate Engine Air

Oil Cooler

Shock Mounted Cowling

Induction Air Filter

Full Flow Oil Filter

Throttle Control

Vernier Mixture Control

Dual Ignition System, Shielded Magneto

Engine Exhaust Muffler

McCauley Fixed Pitch 2-Blade

Metal Propeller

Propeller Spinner, Polished

Electric Starter

Performance

Conditions

All estimated performance data are based on airplane weights at 2,550 pounds; standard atmospheric conditions; level, hard-surface, dry runways; and no wind. They are calculated values derived from flight tests conducted by Cessna Aircraft Company under carefully documented conditions and will vary with individual airplanes, pilots, and numerous other factors affecting flight performance.

Speed, CAS	
Maximum at sea level	
Cruise, 75% power at 8,500 ft	
Cruise (Recommended lean mixture with fuel allowance for engine start, taxi, takeoff, climb and 45	5-minute reserve)
75% power at 8,500 ft range 518 nm	(959 km)
53 gallons usable fueltime 4.26 hr	
45% power at 10,000 ft 638 nm	(1,182 km)
53 gallons usable fueltime 6.72 hr	
Rate of Climb at Sea Level	(223 mpm)
Service Ceiling	(4,267 m)
Takeoff Performance	
Ground roll	(293 m)
Total distance over 50-ft obstacle	(497 m)
Landing Performance	
Ground roll	(175 m)
Total distance over 50-ft obstacle	(407 m)
Stall Speed, CAS	
Flaps up, power off	
Flaps down, power off	
Wing Loading14.7 lb/sq ft	(71.8 kg/sq m)
Power Loading14.2 lb/hp	(6.4 kg/hp)
Engine: Textron Lycoming	
180 BHP at 2,700 RPM	
Propeller: 2-bladed Fixed Pitch, Diameter	(1.9 m)
Consideration and in the standard without making	

Specifications subject to change without notice.

Optional Equipment

Avionics

NAV I: Standard Avionics Plus:

KLN 94 GPS-IFR

2nd KX 155A Nav/Comm With Glideslope

KI 209A VOR/LOC/GS Indicator

With GPS Interface

MD 41-231 GPS-Nav Selector/Annunciator

NAV II:

Standard Avionics Plus:

KLN 94 GPS-IFR

2nd KX 155A Nav/Comm With Glideslope

KI 209A VOR/LOC/GS Indicator

With GPS Interface

MD 41-231 GPS-Nav Selector/Annunciator

KAP 140 Two-axis Autopilot With Altitude Preselect Air Conditioning

Keith Products

ADF: (NAV I & NAV II Only)

KR 87 ADF System

HSI: (NAV II Only)

KI 525

MD 41-233 GPS-Nav (HSI) Selector/

Annunciator (Exchange)

MFD: (NAV II Only)

KMD 550 Multifunction Display

(FIS & EGPWS Wiring Provisions w/MFD Option)

Exterior Striping Options

515B: Thunderbolt Blue, China Blue and Silver Stripes, Thunderbolt Blue Logos and Registration Number.

515C: Burgundy, Red and Sandstone Stripes, Burgundy Logos and Registration Number.

Interior

Leather Seat Surfaces, Dark Brown Leather, w/Dark Beige Leather Insert/Cordova Vinyl

CESSNA'S LIMITED WARRANTY (SINGLE ENGINE PISTON AIRCRAFT)

Cessna warrants the aircraft and all parts included therein are free from defects in material and workmanship under normal use and service for a period of twenty-four (24) months after delivery to the original retail purchaser or first user, except as hereafter noted. Cessna's limited warranty also applies to aircraft paint; however, the warranty period for aircraft paint is twelve months after delivery of the aircraft to the original retail purchaser or first user. Engines, engine parts accessories, avionics, batteries and propellers are specifically excluded from this warranty. Replacement spare parts sold by Cessna, excluding engines, engine part accessories, avionics, batteries and propellers are warranted for 6 months after installation or first use, except as hereafter noted. Cessna's obligation under this warranty is limited to repairing or replacing with new, overhauled or exchange parts, at its option, any part or parts found defective by its examination which are returned by the owner within the applicable twenty-four (24) or six (6) month period to any Cessna appointed or Cessna Contracted Distributor appointed Service Station. Replacement parts are warranted only for the remainder of the applicable twenty-four (24) or six (6) month original warranty period. The repair or replacement of defective parts under this warranty will be made without charge to the owner for parts and labor for removal, installation and/or actual repair, except that the owner shall pay all import duties, sales and use taxes on replacements. This limited warranty does not apply to parts subjected to misuse, negligence, improper installation, accident, alteration; repairs not authorized by Cessna; normal maintenance services (cleaning, control rigging, brake and other mechanical adjustments, maintenance inspections, etc.); replacement of service items (light bulbs, brake linings, filters, hoses, tires, cowl mounts, etc.); or to normal deterioration of soft trim and appearance items (paint, upholstery, rubber-like items, etc.) due to wear and exposure.

TO THE EXTENT ALLOWED BY APPLICABLE LAW, THIS LIMITED WARRANTY IS EXPRESSLY IN LIEU OF AND CESSNA SPECIFICALLY DISCLAIMS AND EXCLUDES ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED IN FACT OR BY LAW, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES OF REPAIR OR REPLACEMENT ARE THE ONLY REMEDIES UNDER THIS WARRANTY.

CESSNA DISCLAIMS AND EXCLUDES ALL OTHER OBLIGATIONS AND LIABILITIES WHETHER IN CONTRACT OR IN TORT, INCLUDING LOSS OF USE, LOSS OF TIME, LOSS OF VALUE, INCONVENIENCE, COMMERCIAL LOSS OR ANY OTHER DIRECT, CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES.

Textron Lycoming Warranty (Limited) New Reciprocating Aircraft Engine What Textron Lycoming Promises You

 Engine Model
 Aircraft Model

 IO-360-L2A
 Cessna-172R, 172S

 IO-540-AB1A5
 Cessna-182T

 IO-540-AC1A5
 Cessna-206H

 TIO-540-AK1A
 Cessna-T182T

 TIO-540-AJ1A
 Cessna-T206H

Textron Lycoming warrants the above listed engine model new reciprocating engine sold by it to be free from defects in material and workmanship for a period of twenty-four (24) months after aircraft delivery to the original retail purchaser or first user.

Textron Lycoming's obligation under this warranty shall be limited to its choice of repair or replacement, on an exchange basis, of the engine or any part of the engine, when Textron Lycoming has determined that the engine is defective in material or workmanship. Such repair or replacement will be made by Textron Lycoming at no charge to you. Textron Lycoming will also bear the cost for labor in connection with the repair or replacement as provided in Textron Lycoming's then-current Removal and Installation Labor Allowance Guidebook. Any engine or part so repaired or replaced will be entitled to warranty for the remainder of the original warranty period.

YOUR OBLIGATIONS

The engine must have received normal use and service. You must apply for warranty with an authorized Textron Lycoming distributor within 30 days of the appearance of the defect in material or workmanship.

Textron Lycoming's warranty does not cover normal maintenance expenses or consumable items. The obligations on the part of Textron Lycoming set forth above are your exclusive remedy and the exclusive liability of Textron Lycoming. This warranty allocates the risk of product failure between you and Textron Lycoming, as permitted by applicable law.

Textron Lycoming reserves the right to deny any warranty claim if it reasonably determines that the engine or part has been subject to accident or used, adjusted, altered, handled, maintained, or stored other than as directed in your operator's manual, or if nongenuine Textron Lycoming parts are installed in or on the engine and are determined to be a possible cause of the incident for which the warranty application is filed.

Textron Lycoming may change the construction of engines at any time without incurring any obligation to incorporate such alterations in engines or parts previously sold.

This limited warranty is exclusive and in lieu of all other warranties and representations, express or implied or statutory, whether written or oral, including but not limited to any warranty of merchantability or fitness for any particular purpose, and any implied warranty arising from any course of performance or dealing or trade usage. This warranty is also in lieu of any other obligation, liability, right, or claim, whether in contract or in tort, including any right in strict liability in tort or any right arising from negligence on the part of Textron Lycoming, and Textron Lycoming's liability on such claim shall in no case exceed the price allocable to the engine or part that gives rise to the claim.

LIMITATION OF LIABILITY

In no event, whether as a result of a breach of warranty, contract, or alleged negligence, shall Textron Lycoming be liable for special or consequential or any other damages, including but not limited to loss of profits or revenues, loss of use of the engine, or cost of a replacement.

No agreement varying this warranty or Textron Lycoming's obligations under it will be binding upon Textron Lycoming unless in writing signed by a duly authorized representative of Textron Lycoming.

Cessna Model Aircraft Only Textron Lycoming Williamsport, Pennsylvania Original Engine Installation Only Effective 1996

McCauley Limited Warranty

McCauley Propeller Systems (McCauley), Vandalia, Ohio, U.S.A., expressly warrants each new propeller and governor produced and sold by McCauley to be free from defects in material and workmanship under normal use and service for a period of thirty-six (36)-months after delivery to the original retail purchaser or first user.

McCauley's obligation under this limited warranty is limited to repairing or replacing, at its option, any propeller, governor, or parts therefore that are properly returned by the owner, with a written statement providing a description of the alleged defect, to McCauley at Vandalia, Ohio, or to any McCauley-appointed Service Station authorized by such appointment to service the individual McCauley new propeller and governor, within thirty-six (36)-month period after delivery to the original retail purchaser or first user, transportation charges prepaid, which upon examination shall be determined to McCauley's sole satisfaction to have been defective. A new warranty period is not established for warranty replacements. Replacements are warranted for the remainder of the applicable warranty period.

The repair or replacement of defective parts under this warranty will be made by McCauley or its authorized Service Stations without charge to the owner for parts, cost of part repair, or labor for removal or installation, except that export/import duties, and sales and/or use taxes, if any, on replacements are solely the owner's or first user's responsibility.

The provisions of this limited warranty do not apply to incidents including, but not limited to, any McCauley new propellers and governors, and the parts therefore, which have been subject to misuse, negligence, or accident; which shall have been repaired or altered outside of McCauley's factory in any way so as in the sole judgment of McCauley to adversely affect their performance, stability, or reliability; to normal maintenance services (such as cleaning, mechanical adjustments, and maintenance inspections); to the replacement of service items made in connection with normal maintenance; to normal deterioration of soft trim and appearance items (such as paint and rubber like items) due to wear and exposure; to parts that have been improperly installed by entities other than McCauley and/or McCauley-appointed Service Stations; or to propellers, governors, and the parts therefore, which are not maintained, stored, or utilized as directed in the aircraft's pilot's operating handbook.

Without McCauley's prior written approval, the new propeller limited warranty is void on any new propeller and/or governor installed on a non-type certificated engine, or on any engine that has received an overhaul or modification which is not approved by the engine manufacturer and which results in a change to the vibratory environment of the engine such as, but not limited to, an alteration of horsepower, operating RPM, crankshaft damper configuration, compression ratio, magneto timing, camshaft design, or any other overhaul or modification not expressly approved by the original engine manufacturer.

To the extent allowed by applicable law, THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED IN FACT OR BY LAW, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTIC-ULAR PURPOSE. THE REMEDIES OF REPAIR OR REPLACEMENT SET FORTH HEREIN ARE THE ONLY REMEDIES UNDER THIS LIMITED WARRANTY. McCAULEY DISCLAIMS ANY OBLIGATION OR LIABILITY, WHETHER IN CONTRACT OR IN TORT (AND WHETHER FOR NEGLIGENCE, STRICT LIABILITY, PRODUCT LIABILITY OR OTHERWISE), INCLUDING LOSS OF USE OF THE PRODUCT WARRANTED, LOSS OF TIME, INCONVENIENCE, LOSS OF PROFITS, COMMERCIAL LOSS, OR ANY OTHER DIRECT, CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES. THIS WARRANTY IS IN LIEU OF ANY OBLIGATION OR LIABILITY ON THE PART OF McCAULEY TO ANYONE OF ANY NATURE WHATSOEVER BY REASON OF THE MANUFACTURE, SALE, LEASE, OR USE OF THE WARRANTED PRODUCTS AND McCAULEY NEITHER ASSUMES NOR AUTHORIZES ANYONE TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH WARRANTED PRODUCTS. THE UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS, 1980, AND ANY SUCCESSOR THERETO, IS EXPRESSLY EXCLUDED FROM THIS WARRANTY.

Bendix/King Equipment Retail Warranty Statement For Cessna Aircraft Company Single Engine Program

- A. General Aviation Avionics products manufactured by Honeywell under the brand name Bendix/King (collectively referred to herein as "Honeywell") are warranted against defects in design, material, or workmanship caused by Honeywell or its authorized agent(s) for the warranty period as defined in Paragraph (B) of this statement, which occur under normal and intended use and service, subject to all of the qualifications and conditions hereinafter stated.
- B. The warranty term for new product(s) installed on new aircraft shall be twenty-four (24) months from delivery to the original retail purchaser or first user. Cessna to provide warranty start date information.
- C. Any product Honeywell finds to be in violation of the warranty as set out in Paragraph (A) hereof, at the option of Honeywell, shall be repaired, replaced, or exchanged in accordance with the following procedures:
 - 1. Products shall be returned to any authorized Honeywell Service Center or Honeywell Regional Product Support Repair/Overhaul Facility, with transport charges prepaid.
 - 2. After correction, the products shall be returned to the purchaser with surface transportation charges prepaid.
 - 3. The risk of loss or damage to all products in transit shall be borne by the party initiating the transportation of such products unless the purchaser makes a request for specific mode of transportation. In such case, the risk of loss and the cost of shipment shall be borne by the purchaser.

All items repaired or replaced hereunder shall be warranted for the unexpired portion of the original warranty period.

- D. This warranty specifically excludes defects that Honeywell determines to be the result of any or all of the following:
 - 1. Abuse, accident, or misuse
 - 2. Contamination, negligence, tampering, or improper storage or maintenance
 - Repair or attempted repair by unauthorized persons or use of non-Honeywell or unauthorized repair or replacement parts
 - Products not installed by an authorized Honeywell Installation Facility in accordance with the appropriate installation manual.
- E. The warranty as set out in Paragraph (A) is the only warranty for Honeywell products and is in lieu of all other warranties expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose that are herewith expressly excluded and disclaimed.
- F. The remedies as set out in Paragraph (C) hereof state the entire liability of Honeywell and constitute the sole and exclusive remedy of the purchaser. Honeywell shall not be liable for any other claim, loss, or damage, including, but not limited to, incidental, consequential, or other kinds of damages whether based on contract, tort, negligence, or other theory of product liability.
- G. Honeywell reserves the right to make design changes, additions to, and improvements in its products without the obligation to install same in products previously manufactured.

THIS IS A LIMITED WARRANTY Honeywell 23500 W. 105th Street Olathe, Kansas 66061



SPA03-172SPEC-15 02/03 5C Litho in U.S.A.