



EXCELSIOR-HENDERSON
MOTORCYCLE MANUFACTURING COMPANY

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EXCELSIOR-HENDERSON MOTORCYCLE MANUFACTURING COMPANY

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Features of the Super X motorcycle are covered by U.S. Patent Nos. D406088, D408565, D409539, D409774, D409964, D412139, with additional patents pending.

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Introduction

Read the Model HCXT Supplement

The *Model HCXT Supplement* is designed to be used in conjunction with the *Super X Riders Handbook*. The *HCXT Supplement* contains information that is specific to the Super X® Model HCXT motorcycle. Read the *Rider's Handbook* and the *Model HCXT Supplement* thoroughly before you ride. The information found in both documents is essential to safe riding and proper maintenance of your motorcycle.

Hazard Symbol and Terms in the Supplement



The hazard symbol indicates a potential hazard to you, others, or your motorcycle. Pay special attention to information in the *Model HXCT Supplement* that begins with this symbol.

The following terms have special meaning in the *Model HCXT Supplement*. Be certain you understand the meaning of each term, as the terms communicate important information about the motorcycle and its operation and maintenance.

WARNING

Indicates a potential hazard that could injure you or others.

Caution

Indicates a potential hazard that could damage the motorcycle.

Notice

Emphasizes important information that might otherwise be overlooked.

Safety Information

This section contains information to help you operate your Super X® Model HCXT motorcycle safely and enjoyably while minimizing risk to you, your passenger, and others. Your ability to safely operate the motorcycle depends on your judgment and use of safe riding techniques. Motorcycling has inherent risks. You can minimize those risks, but you can't eliminate them completely.

We want to keep you riding. Take the time to read and understand the following information to help minimize risk and maximize pleasure when operating the motorcycle. Even if you are an experienced rider, read this section and the rest of the *Model HCXT Supplement* before riding the motorcycle.

- Read, understand, and use the information contained in this section. This section contains safety information specific to the Super X Model HCXT, as well as information about general motorcycle safety.

Gross Vehicle Weight Rating

Gross vehicle weight is the total weight of the motorcycle, the rider, and the passenger.

- The weight of the motorcycle includes: the motorcycle and all its fluids; any accessories and their contents; and any additional cargo on the motorcycle.
- The weight of the rider or passenger includes: body weight, all apparel, and objects in or on apparel.

WARNING

Do not exceed the motorcycle's gross vehicle weight rating. Exceeding the weight rating can lessen stability and handling and could cause you to lose control of the motorcycle.

The gross vehicle weight rating of the Super X Model HCXT is 1140 lb. The total weight of the Super X Model HXCT is approximately 780 lb with a full capacity of all fluids, and without any cargo. The combined weight of the rider, passenger, and cargo cannot exceed 360 lb. The following example shows how to stay within the gross vehicle weight rating.

Super X Model HCXT with cargo

| Item | Weight |
|--|---------|
| Super X with full capacity of all fluids | 780 lb |
| Attached cargo | 30 lb |
| Rider - dressed and ready to ride | 205 lb |
| Passenger - dressed and ready to ride | 125 lb |
| Total gross vehicle weight | 1140 lb |

Loading

WARNING

Adding additional weight to the motorcycle can affect its stability, handling characteristics, and safe operating speed.

Use the following guidelines when attaching cargo to the motorcycle.

- Keep cargo weight to a minimum, and keep it as close to the motorcycle as possible, to minimize a change in the motorcycle's center of gravity. Changing the center of gravity can lessen stability and handling and could cause you to lose control of the motorcycle.
- Distribute weight evenly on both sides of the motorcycle. Maintain even weight distribution by checking cargo to make sure they are securely attached to the motorcycle before riding and whenever you take a break while riding. Uneven

weight distribution, or cargo that shifts suddenly while you are riding, can make the motorcycle hard to handle and cause you to lose control of the motorcycle.

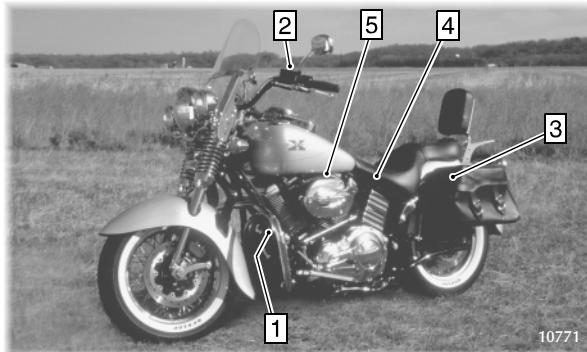
- Do not attach large or heavy cargo such as sleeping bags, duffle bags, or tents to the handlebars, front fork area, or front fender. Cargo placed in any of these areas can cause instability due to improper weight distribution or aerodynamic changes, and can cause you to lose control of the motorcycle. Such items can also block air flow to the engine and could cause overheating that can damage the engine.
- With the exception of highway pegs, do not attach additional weight to the highway bar.
- Do not exceed the maximum cargo weight limit of the saddlebags (15 lbs. each) or luggage carrier (5 lbs.), and do not attach cargo to a component not designed for that purpose, as either of these could result in an equipment failure that could cause you to lose control of the motorcycle.

Highway Bar

⚠ WARNING

The highway bar will not protect you from injury.

Safety and Vehicle Information Labels



Super X Model HCXT — left side view

1 VEHICLE EMISSION CONTROL INFORMATION

 EXCELSIOR-HENDERSON MOTORCYCLE
MANUFACTURING COMPANY

Engine Displacement: 1386CC
Engine Family: YEMCC014001
Engine Exhaust Emission Control: SMFI
Engine Tune Up Specifications
Idle Speed: 900 - 950 RPM
Ignition Timing: Fixed
Fuel: Unleaded Gasoline only, 92 pump octane or higher.
Oil: See Rider's Handbook

This vehicle conforms to USEPA Regulations applicable to 2000 Model Year new motorcycles.

2 **WARNING**
USE ONLY DOTS BRAKE FLUID
FROM A SEALED CONTAINER.
CLEAN FILLER CAP BEFORE
REMOVING.

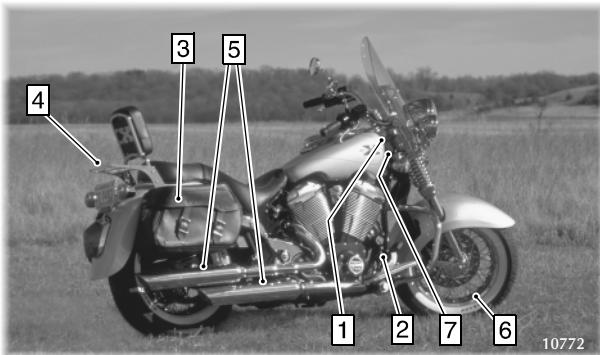
3 **WARNING**
To maintain stability and balance:
• Do not exceed 15 lbs. in each
saddlebag.
• Load weight equally on both sides.
• Adjust tire pressure if necessary.
See Rider's Handbook.
• Do not exceed gross axle or
vehicle weight. See Rider's
Handbook and Certification
Label on headstock.

4 **WARNING:** The rear shock
absorber contains nitrogen gas under
high pressure. To prevent injury, do not
disassemble, rebuild, puncture, or
apply heat to the shock absorber.
See Rider's Handbook.

(Under seat)

5 **WARNING:** Read Rider's Handbook before riding, repairing or adding accessories to
this motorcycle. Failure to follow all safety precautions and warnings, especially those in
the Rider's Handbook, may result in injury and/or damage to the motorcycle.
The Rider's Handbook is available from your dealer or Excelsior-Henderson Motorcycle
Manufacturing Company, 805 Hanlon Drive, Belle Plaine, MN 56011.

(Under flap)



Super X Model HXCT — right side view

1

MFD. BY EXCELSIOR-HENDERSON
MOTORCYCLE MANUFACTURING COMPANY
MADE IN USA
DATE MANUFACTURED
GAWR: 144.15
MODEL: SUPER X MODEL YEAR
GAWR: F-384 LB WITH MT90H16 TIRE*
16 X 3.0 D RIM AT 36 PSI COLD
GAWR: R-746 LB WITH MU90H16 TIRE*
16 X 3.5 D RIM AT 40 PSI COLD
THIS VEHICLE MEETS APPLICABLE FEDERAL
MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON
THE DATE OF MANUFACTURE SHOWN ABOVE.
V.I.N.
MOTORCYCLE
*WARNING - SEE RIM LABELS

2

MOTORCYCLE NOISE EMISSION
CONTROL INFORMATION

This 2000 Excelsior-Henderson EMC42X1386 motorcycle, 4599-0029, meets USEPA noise emission requirements of 80 dBA at 2750 RPM by the Federal test procedure. Modifications which cause this motorcycle to exceed Federal noise standards are prohibited by Federal law. See Rider's Handbook.

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MANUFACTURING COMPANY

3

WARNING

To maintain stability and balance:

- Do not exceed 15 lbs. in each saddlebag.
- Load weight equally on both sides.
- Adjust tire pressure if necessary. See Rider's Handbook.
- Do not exceed gross axle or vehicle weight. See Rider's Handbook and Certification Label on headstock.

4

WARNING:
Maximum load
is 5 lbs.

5

MOTORCYCLE EXHAUST
SYSTEM NOISE CONTROL
INFORMATION

THIS EXCELSIOR HENDERSON
EXHAUST SYSTEM 4599-0029
MEETS EPA NOISE EMISSION
REQUIREMENTS OF 80 dBA
FOR THE FOLLOWING
MOTORCYCLES. EXCEPT
INSTALLATION OF THIS
EXHAUST SYSTEM ON
MOTORCYCLE MODELS NOT
SPECIFIED MAY VIOLATE
FEDERAL LAW

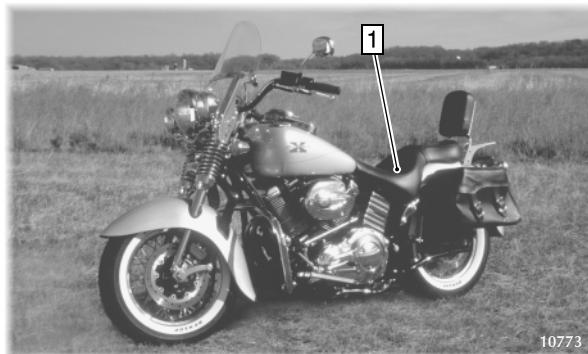
6

WARNING: Use only correct series tire on this rim. Mount using tire mounting
lubricant. Never exceed maximum tire pressure, especially to seat bead,
otherwise tire tube or rim could fall resulting in injury. See Rider's Handbook.

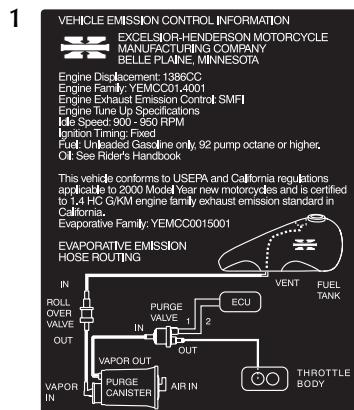
7

US Patent Nos. D406088, D408565, D409539, D409774,
D409964, D412139, Additional Patents Pending

(Under flap)



Super X Model HCXT — left side view (California model only)



Product Description

This section identifies the additional components found on the Super X® Model HCXT motorcycle and shows their locations.

Vehicle Components



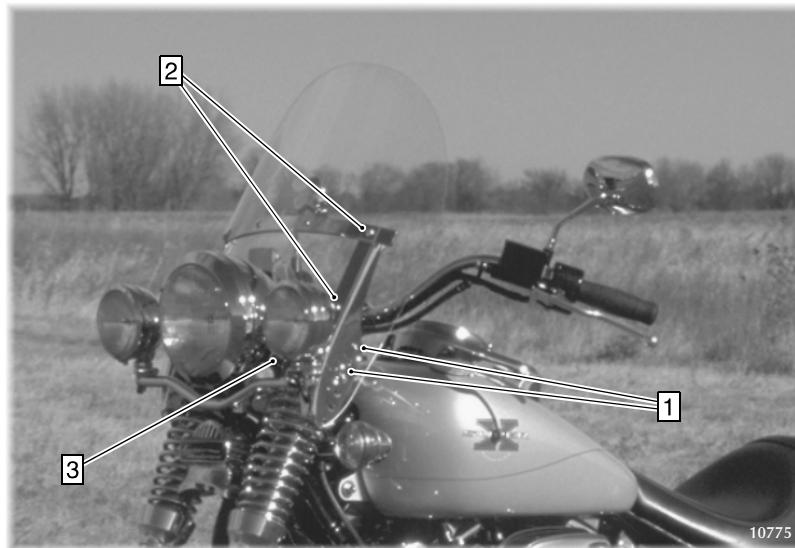
Super X Model HCXT

| | | |
|-----------------|-----------------|--------------------|
| 1. Windshield | 4. Sissy Bar | 6. Luggage Carrier |
| 2. Driving Lamp | 5. Backrest Pad | 7. Saddlebag |
| 3. Highway Bar | | |

Instruments and Controls

This section shows you where to find additional controls on the Super X® Model HXCT motorcycle and explains their function and use.

Location



1. Windshield height and tilt adjustment
2. Windshield air gap adjustment
3. Driving Lamp Switch

Windshield

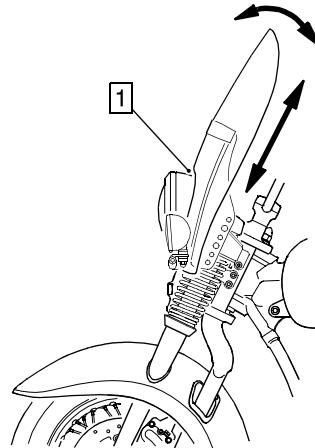
The windshield can be adjusted to one of four different heights. It may also be tilted slightly forward or rearward to remove any reflections or glare caused by highly polished or plated components. The air gap between the bottom of the windshield and the top of the headlamp can also be adjusted.

Notice

Select a windshield height that allows you to easily look over the top of the windshield in the event the windshield suddenly becomes obstructed, preventing you from looking through it.

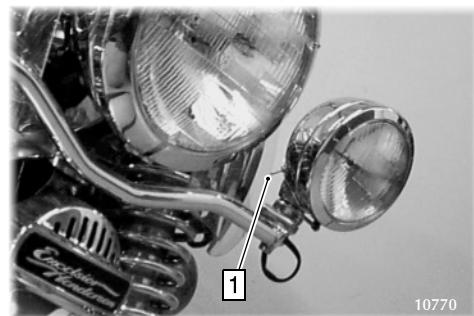
Driving Lamps

A toggle switch located below the right side driving lamp controls both lamps. The motorcycle may be operated with the driving lamps on or off.



10768

1. Air gap



10770

1. Driving lamp toggle switch

Pre-Operation Check

To keep your Super X® Model HCXT motorcycle in good working order, make the checks described in this section before each ride. This is especially important before you make a longer trip or when you remove the motorcycle from storage. You can find additional service information in the *Maintenance* section of the *Rider's Handbook*, in the *Super X Service Handbook*, or from your local authorized Excelsior-Henderson Dealer.

WARNING

Failure to perform these checks before you ride may result in injury or damage. Adjust components designed for normal wear adjustment, and repair or replace worn or damaged components, as necessary.

Tires

Tire Pressure

Normal riding warms the tires and increases the tire pressure. For an accurate reading, check the tire pressure before you ride. Adjust tire pressure as required.

| | Up to 360 lb load |
|---|--------------------------|
| Front: Dunlop® tires CruiseMax 130/90-16 WW TL | 36 psi (cold) |
| Rear: Dunlop® tires CruiseMax 140/90-16 WW TL | 36 psi (cold) |

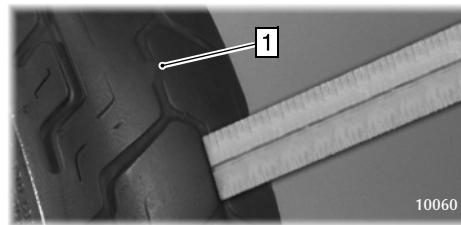
Tire Condition

Inspect the tire sidewalls, road contact surface, and tread base for cuts, punctures, and cracking. Replace damaged tires immediately (see your *Super X Service Handbook* or an authorized Excelsior-Henderson Dealer).

Tread Depth

Raised areas at the base of the tread, known as wear bars, act as easily-visible tread depth indicators. When the road contact surface has worn to the top of the wear bars, replace the tire.

If you have installed tires that do not have wear bars, use an accurate ruler or depth gauge to measure the shallowest tire tread you can find (usually near the center of the tire surface). Replace a tire with a tread depth less than $1/16$ " (see your *Super X Service Handbook* or an authorized Excelsior-Henderson Dealer).



1. Wear bar

Electrical Equipment

Driving Lamps

Set the main switch and the driving lamp switch to the On position. Both of the driving lamps should illuminate. Set the driving lamp switch to the Off position. Both of the driving lamps should turn off.

Maintenance

This section includes information for maintaining your Super X® Model HCXS motorcycle. Regular service increases motorcycle durability, safety, and dependability, and provides greater riding pleasure.

Before you begin any maintenance procedure, read the instructions for the entire procedure. Choose a flat, firm surface for servicing the motorcycle. Make sure you have the time, tools, and expertise to complete a procedure properly.

For information on major repairs, see the *Super X Service Handbook*. Major repairs typically require the technical skills and specially designed tools available from your authorized Excelsior-Henderson Dealer.

To comply with emission regulations and to ensure proper engine function, we advise that all emission system maintenance and repair be performed by an authorized Excelsior-Henderson Dealer.

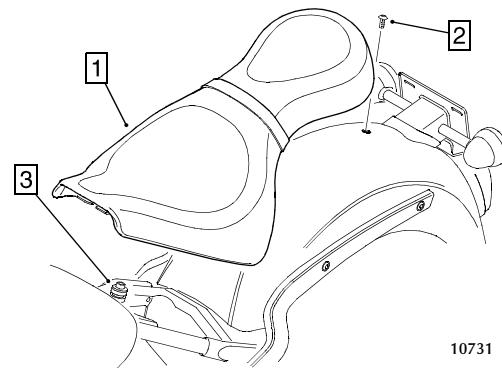
Saddle

To remove the saddle:

1. Remove the saddle screw.
2. Lift the back of the saddle slightly and pull it to the rear, out from the saddle post.

To install the saddle:

1. Slide the front of the saddle into the saddle post at the rear of the fuel tank.
2. Install the saddle screw.



10731

1. Saddle
2. Saddle screw
3. Saddle post

Electrical Equipment

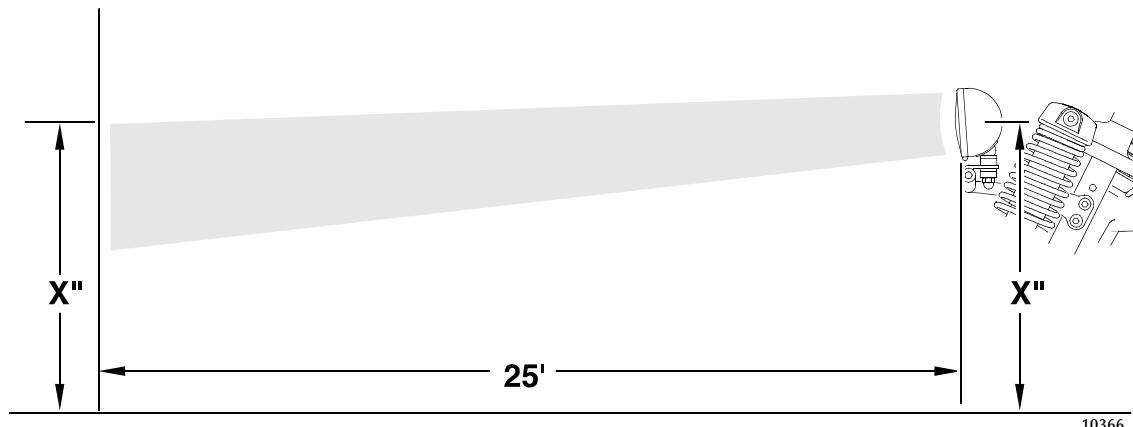
Check Driving Lamps

Set the main switch to the On position. Both of the driving lamps should illuminate. Set the driving lamp switch to the Off position. Both of the driving lamps should turn off.

Adjust Driving Lamps

Each lamp should shine straight ahead or slightly to the right of the motorcycle. The top of each lamp beam should be just below the center of the lamp at a distance of 25 feet.

1. Stand the motorcycle in an upright position.
2. Turn the main switch and the driving light switch to the On position.
3. Loosen each driving lamp post nut and aim each lamp beam as shown.
4. Tighten each post nut and check each lamp for correct aim.



Replace Driving Lamp Bulb

Make sure the driving lamps are cool to the touch, and that the main switch and the driving lamp switch are in the Off position.

1. Loosen the driving lamp bezel screw. While supporting the bulb, gently spread the bezel and remove it from the lamp body.
2. Disconnect the bulb wires.
3. Reverse this procedure to install a new bulb.

Windshield

The windshield can be adjusted to one of four different heights. It may also be tilted slightly forward or rearward to remove any reflections or glare caused by highly polished or plated components. The air gap between the bottom of the windshield and the top of the headlamp can also be adjusted.

Adjust Windshield Height and Tilt

Notice

Select a windshield height that allows you to easily look over the top of the windshield in the event the windshield becomes obstructed.

1. Support the windshield and remove the 4 mounting screws.

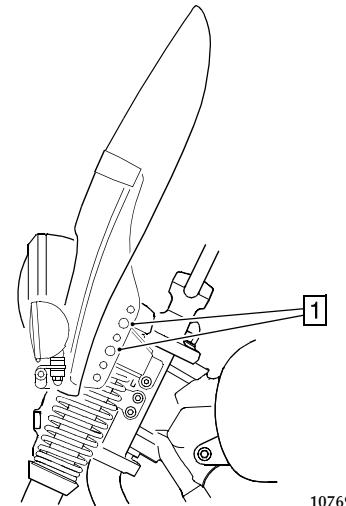
Notice

When adjusting the windshield downward, loosen the windshield pinch screws and slide the windshield insert all the way up.

2. Select the appropriate windshield height and install the 4 mounting screws finger tight.
3. Tilt the windshield forward or backward to reduce or eliminate any reflective glare from highly polished or plated parts and tighten the mounting screws.

Torque: 17 ft-lbs

4. Adjust the windshield air gap.



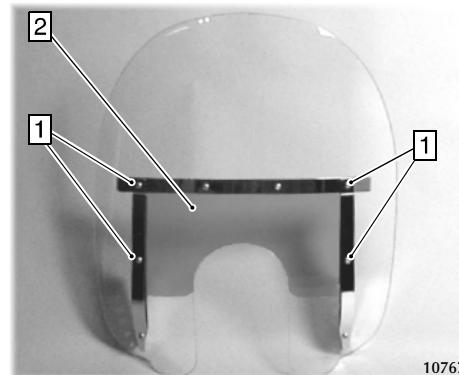
10769

1. Mounting screws

Adjust Windshield Air Gap

Adjust the amount of air gap between the top of the headlamp and the bottom of the windshield to approximately 1/4".

1. Loosen the windshield pinch screws.
2. Move the windshield insert to the desired position.
3. Tighten the windshield pinch screws.



1. Windshield pinch screws
2. Windshield insert

Tires

Check Tire Pressure

Normal riding warms the tires and increases the tire pressure. For an accurate reading, check the tire pressure before you ride. Adjust tire pressure as required.

| | Up to 360 lb load |
|--|-------------------|
| Front: Dunlop® tires CruiseMax 130/90-16 WW TL | 36 psi (cold) |
| Rear: Dunlop® tires CruiseMax 140/90-16 WW TL | 36 psi (cold) |

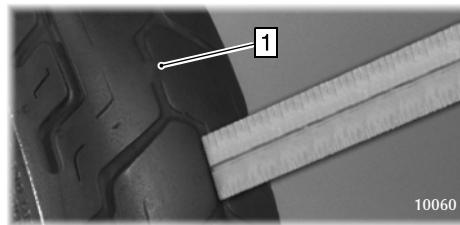
Check Tire Surface Condition

Inspect the tire sidewalls, road contact surface, and tread base for cuts, punctures, and cracking. Replace damaged tires immediately (see your *Super X Service Handbook* or an authorized Excelsior-Henderson Dealer).

Tread Depth

Raised areas at the base of the tread, known as wear bars, act as easily-visible tread depth indicators. When the road contact surface has worn to the top of the wear bars, replace the tire.

If you have installed tires that do not have wear bars, use an accurate ruler or depth gauge to measure the shallowest tire tread you can find (usually near the center of the tire surface). Replace a tire with a tread depth less than $1/16$ " (see your *Super X Service Handbook* or an authorized Excelsior-Henderson Dealer).



1. Wear bar

Cleaning and Storage

This section explains how to properly clean the various parts of the motorcycle that are unique to the Super X® Model HCXT.

Cleaning

Clean your motorcycle regularly to protect it from corrosion and to keep it looking new. Clean the motorcycle if it is dusty or muddy, or if it has picked up foreign material such as road salt, insects, oil, tar, or tree sap. If you ride in an area with salty or polluted air, wash your motorcycle frequently. Proper cleaning requires washing and drying the motorcycle, and then applying wax, polish, and protectants to extend the service life and appearance of various components.

During cleaning and storage you might use products that are potentially hazardous; such as polishing compounds and fuel stabilizer. When using any of these products, follow the instructions and warnings on the product packaging.

Some foreign materials are corrosive to the motorcycle's finish, and you should remove these materials as soon as possible. Road salt is particularly corrosive. If you have been riding on salted roads, wash the motorcycle immediately with cold water. Do not use warm or hot water for this purpose, as increased water temperature increases the corrosive effect of salt. Oil, tar, and tree sap may also damage the motorcycle's finish. If normal washing does not remove these materials, you may need to use a special cleaner. Choose a cleaner designed for use on the type of surface you need to clean.

Windshield Care

Wash the windshield using a soft cloth or sponge soaked in a solution of mild detergent and warm water, applying minimal pressure as you wash. Let the detergent do the cleaning, not the pressure you apply. Excessive washing pressure may cause dirt, sand, or other foreign materials on the windshield to scratch it. Soak the cloth or sponge in the detergent and water solution frequently to provide plenty of soapy water for washing, and keep the cloth or sponge clean by rinsing it frequently.

- Minor scratches may be removed with a quality plastic polishing compound. Follow the manufacturer's instructions when using plastic polishing compounds.
- Oil, tar, and tree sap may also damage the windshield's finish. If normal washing does not remove these materials, you may need to use a special cleaner. Choose a cleaner designed for use on clear plastic and follow the manufacturer's instructions when using special cleaners.

Saddlebag Care

Natural leather has "character." Each piece used in the construction of these saddlebags is unique, and will settle into its own distinct form over time and miles. Mature leather is "one-of-a-kind", and if properly cared for, only gets better with age.

Caring for natural leather is similar to caring for your own skin. To prevent leather from becoming hard and dry, occasionally apply a leather conditioner. A good quality leather conditioner replaces the natural oils lost by repeated exposure to sun, wind, and rain. Leather subject to drier climates will require more frequent conditioning.

To retain the beauty and character of your leather saddlebags, please follow these steps.

1. Vacuum or blow any loose dust or dirt from the saddlebag.
2. Use a good quality saddle soap and a sponge or soft cloth to clean the saddlebag. Always follow the manufacturer's directions. Rinse the saddlebag with a clean wet cloth or sponge.
3. Once the leather is dry, treat it with a good quality leather conditioner. Always follow the manufacturer's directions.
4. Allow the conditioner to dry, and wipe off any excess before using the saddlebag.

Specifications

Dimensions

| | |
|-----------------------|-------|
| Overall length | 92.5" |
| Overall width..... | 39.5" |
| Overall height | 52.5" |
| Saddle height..... | 26.5" |
| Wheelbase..... | 62.9" |
| Ground clearance..... | 5.9" |

Weight

| | |
|---|----------|
| Dry weight..... | 755 lbs |
| Gross Vehicle Weight Rating (GVWR) | 1140 lbs |
| Gross Axle Weight Rating – front... | 394 lbs |
| Gross Axle Weight Rating – rear ... | 746 lbs |

Engine

| | |
|------------------------|----------------------|
| Type..... | 50° X-Twin™ |
| Number of cylinders... | 2 |
| Bore..... | 3.66" |
| Stroke | 4.02" |
| Displacement..... | 85 cu. in. (1386 cc) |
| Compression ratio..... | 9.2 : 1 |

| | |
|--------------------------|--|
| Fuel system | port sequential, closed loop fuel injection |
| Starting system | electric |
| Lubrication system | pressure lubrication, dual scavenge |
| Air cleaner..... | dry paper/wire mesh |

Transmission

| | |
|-----------------------------------|---------------------------------|
| Type | 5 speed, constant mesh |
| Primary reduction system | wet multi-gear drive |
| Primary reduction ratio..... | 1.75 : 1 |
| Gear shift pattern | 1 down, 4 up |
| Gear ratios: 1st..... | 2.53 : 1 |
| 2nd..... | 1.77 : 1 |
| 3rd..... | 1.35 : 1 |
| 4th..... | 1.00 : 1 |
| 5th..... | 0.80 : 1 |
| Clutch..... | wet multi-disk |
| Drive belt..... | high performance synchronous |

Chassis

| | |
|----------------------------|--|
| Frame type | tubular steel, double cradle |
| Front suspension | leading link, double strut system |
| Rear suspension..... | adjustable, gas charged system |
| Caster angle | 30° |
| Trail..... | 6.25" |
| Steering angle | ±43° |
| Turning radius..... | 7.6' |
| Brakes (diameter X width): | |
| Front | 11.5" X 0.236" floating disc, 4 piston caliper |
| Rear | 11.5" X 0.236" floating disc, 4 piston caliper |

Wheels

Type:

| | |
|-------------|--------------------------|
| Front | stainless steel 40 spoke |
| Rear | stainless steel 40 spoke |

Size:

| | |
|-------------|----------|
| Front | 3.0 X 16 |
| Rear | 3.5 X 16 |

Tires

| | |
|-----------|------|
| Type..... | tube |
|-----------|------|

Size:

| | |
|-------------|-----------------|
| Front | 130/90-16 WW TL |
| Rear | 140/90-16 WW TL |

| | |
|---------------------------------|------------------|
| Manufacturer and model | Dunlop CruiseMax |
|---------------------------------|------------------|

Maximum load:

| | |
|-------------|---------|
| Front | 677 lbs |
| Rear | 761 lbs |

Air pressure (cold):

Up to 360 lb. load:

| | |
|-------------|---------------|
| Front | 41 psi (cold) |
| Rear | 41 psi (cold) |

Electrical

Ignition system:

Type..... inductive coil

Timing..... ECM-driven

Spark plug:

Type..... Excelsior-Henderson
part no. 3199-0030

Gap..... 0.035 in.

Battery..... sealed 18AH

Generator..... 35 amp regulator

Light bulbs (voltage, wattage X quantity):

Headlamp..... halogen sealed
beam, ANSI #H6024

Running light/Front
turn signal..... ANSI #198

Rear turn signal..... ANSI #199

Tail/brake light..... ANSI #198

License plate light..... ANSI #193

Speedometer..... ANSI #161

Tachometer..... ANSI #74

Fuel gauge..... ANSI #74

Instrument Pod Indicators:

Headlamp high beam..... ANSI #74

Check engine..... ANSI #74

Turn signal..... ANSI #74

Neutral..... ANSI #74

Low oil pressure ANSI #74

Low battery voltage ... LED

Low fuel ANSI #74

Fuses:

Auxiliary lights..... 10 amps

Fuel pump 10 amps

EFI 15 amps

Lights..... 15 amps

Horn 10 amps

Ignition 5 amps

Fluids

Capacities:

Fuel tank..... 5.75 gal

Engine oil (with filter) .. 3.5 qt (US)

Fuel unleaded gasoline
only, 92 pump
octane minimum

Engine oil:

Classification API-rated SF or SG

Viscosity..... 25W-50 (+40°F)

Brake and clutch fluid DOT 5 hydraulic
fluid

