The AMERICAN IRONHORSE® Motorcycle you have just purchased utilizes the latest technology and the highest quality components to produce a motorcycle that strains at the chains of the past and dares to race into the future. Our motorcycles are not for everyone, only the select, free-spirited souls like you. Your AMERICAN IRONHORSE was built with great care for your enjoyment. To ensure that your AMERICAN IRONHORSE performs to its capabilities and to advise you of safety issues, please read this manual in its entirety before riding your AMERICAN IRONHORSE Motorcycle.

This manual provides operating, safety, and maintenance information on the AMERICAN IRONHORSE Bandit ST, Classic SX, Legend SC, Outlaw SY, Slammer SZ, Stalker SR and Thunder SW. Following the recommended inspection and maintenance procedures will ensure that your AMERICAN IRONHORSE is in optimum condition for your comfort, pleasure, and safety. The inspections and maintenance should be performed by an experienced, professional mechanic to ensure this high quality. Enjoy the AMERICAN IRONHORSE Motorcycle that will make your dreams reality.
<table>
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<tr>
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<th><strong>Dealer Name</strong></th>
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Printed type face in this manual is designed to highlight certain sections, paragraphs, sentences or phrases. Please take special note of the following key:

**DANGER: BOLD CAPITALS CONTAINED IN A BOX INDICATE THAT THE SUBJECT IS ONE THAT COULD POSSIBLY LEAD TO PERSONAL BODILY INJURY TO THE RIDER, PASSENGERS, OR OTHERS.**

**WARNING: BOLD PRINT IN CAPITAL LETTERS INDICATES THAT THE SUBJECT IS ONE THAT COULD POSSIBLY LEAD TO DAMAGE TO THE MOTORCYCLE.**

**CAUTION:** *Italic print indicates other important matters.*

This manual covers all models of AMERICAN IRONHORSE motorcycles with standard and optional equipment. Consult your local AMERICAN IRONHORSE dealer for any questions you may have.
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Literally millions of people world-wide ride motorcycles daily for transportation, work and pleasure. At the same time, tens of thousands of accidents occur, many avoidable.

As a motorcyclist, you have taken on additional responsibilities to yourself, passengers and others to ride safely. Here is a safety checklist to review as you enjoy your AMERICAN IRONHORSE motorcycle:

• If you are an inexperienced operator, take a formal motorcycle safety riding course. If you are an experienced rider and have not done so in a long time, consider a refresher course.

• Be aware of the fact that as a responsible rider, you must always know the condition of your vehicle, especially the condition of those systems that directly correlate to bike safety.

• Read this manual in its entirety before riding your AMERICAN IRONHORSE. Follow all of the recommendations, danger, warnings and caution information.

• Find a professionally trained, experienced mechanic with whom you can develop confidence and who can come to know your vehicle’s operation over time.

• Ensure that all the recommended inspection and maintenance procedures in this manual are strictly followed within the prescribed time intervals.

• Stay acutely aware of road and ambient conditions. Motorcycles (with only two wheels) are not as stable as four wheeled vehicles. Consequently, wet or slippery road surfaces, wind, rough pavement, high speeds, oncoming traffic, foreign material on pavement and similar conditions increase the risk to a rider’s control of the vehicle and possible result in personal injury.

• Always wear an approved helmet when riding. Avoid the wearing of loose fitting or flowing garments that can interfere with safe operation of your vehicle. Always wear appropriate eyewear and footwear.

• Always follow the posted speed limits and make appropriate reductions in speed consistent with deteriorating road conditions, traffic, ambient conditions and similar safety factors.
• Before starting your engine and setting off on a ride, always visually and manually check the condition of your vehicle to ensure proper operation, especially the condition of tires, brakes, throttle, clutch, vehicle indicator lights, headlamp, signal and brake lamps and turning radius freedom.

• Gasoline and battery gases are extremely volatile. Pay special attention to the sections of this manual dealing with those two important subjects.

• Always ride your motorcycle defensively. Remember, as a rider, you are the most vulnerable vehicle operator on the road with little or no bodily protection in the event of an accident. Always operate under the premise that the “other guy” will act in a way that will increase the risk of you becoming involved in an accident. Remember, as a motorcyclist, you are often not seen by other vehicle operators. Take particular care of motorists making turns into your oncoming traffic lanes. Always operate with your headlight on, day or night, to help increase your visibility to other vehicle operators.

• Never operate your engine in an enclosed space as carbon monoxide gas found in your vehicle’s exhaust fumes is extremely dangerous, even deadly, if inhaled.

• Always ride your motorcycle defensively. Remember, as a rider, you are the most vulnerable vehicle operator on the road with little or no bodily protection in the event of an accident. Always operate under the premise that the “other guy” will act in a way that will increase the risk of you becoming involved in an accident. Remember, as a motorcyclist, you are often not seen by other vehicle operators. Take particular care of motorists making turns into your oncoming traffic lanes. Always operate with your headlight on, day or night, to help increase your visibility to other vehicle operators.

• Never operate your vehicle in less than 100% control of all of your faculties. Operating under the influence of alcohol, drugs, fatigue or other such conditions greatly increases the chance of becoming involved in an accident.

• Do not overload your vehicle with weight. See the maximum allowable gross vehicle weight rating in this manual and do not exceed it. Overloading or unbalanced loading
CAN LEAD TO VEHICLE INSTABILITY AND MAY RESULT IN PERSONAL INJURY. NEVER TOW A TRAILER OR OTHER VEHICLE. SIMILARLY, A DISABLED MOTORCYCLE SHOULD NEVER BE TOWED BY ANOTHER VEHICLE. TOWING FORCES CREATE AN UNSTABLE CONDITION THAT COULD LEAD TO PERSONAL INJURY. NEVER ADD A SIDE CAR TO YOUR AMERICAN IRONHORSE VEHICLE. IT IS NOT DESIGNED OR CONSTRUCTED FOR SUCH USE.

- The vehicle’s exhaust system becomes very hot from normal operation. Always wear appropriate clothing to prevent direct skin contact with exhaust pipes and mufflers. Never touch exhaust system components until they have had about 25 minutes or more to cool down after shutting down your engine.

- ALWAYS SECURE YOUR VEHICLE WHEN LEFT UNATTENDED BY LOCKING AT THE ROTOR WITH A ROTOR LOCK AND LOCKING AND REMOVING THE IGNITION KEY. THIS WILL HELP PREVENT UNAUTHORIZED USE OR THEFT.

- WHEN YOUR VEHICLE WILL NOT BE IN USE, CLOSE THE FUEL SUPPLY VALVE TO PREVENT ACCIDENTAL GASOLINE SPILLAGE. FOR CALIFORNIA VEHICLES WITH EVAPORATIVE EMISSION SYSTEMS, FAILURE TO DO SO COULD CAUSE SERIOUS DAMAGE TO YOUR ENGINE WHEN GASOLINE LEAKS INTO CRANKCASE OIL.

- PAY PARTICULAR ATTENTION TO THE TRACTION, STEERING COMPONENTS AND SYSTEMS OF YOUR VEHICLE. TIRES SHOULD BE CONTINUOUSLY MONITORED FOR CORRECT INFLATION PRESSURE, TREAD WEAR CONDITION, CUTS AND ABRASIONS. STEERING AND VEHICLE SUSPENSION SYSTEMS SHOULD NOT EXHIBIT EXCESSIVE “PLAY” UNDER OPERATION. SUCH CONDITIONS CAN LEAD TO VEHICLE INSTABILITY AND RESULT IN POSSIBLE PERSONAL INJURY. THE CONDITION OF SHOCK ABSORBING COMPONENTS SUCH AS FRONT FORKS AND UNDERSIDE SHOCK ABSORBERS OR TORSION BAR SHOULD BE MONITORED FOR FUNCTION AND POSSIBLE LEAKS. THE PRESENCE OR SUSPICION OF THE PRESENCE OF ANY OF THESE CONDITIONS SHOULD LEAD TO IMMEDIATE CONSULTATION WITH A PROFESSIONALLY TRAINED MECHANIC.

- NEVER LET OTHER INDIVIDUALS OPERATE YOUR VEHICLE UNLESS YOU ARE CERTAIN OF THEIR RIDING SKILLS AND THEIR FAMILIARITY WITH YOUR AMERICAN IRONHORSE VEHICLE, WHICH MAY OPERATE DIFFERENTLY FROM THOSE VEHICLES WITH WHICH THEY MAY BE FAMILIAR.
### A. Dimensions: (inches)

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<thead>
<tr>
<th></th>
<th>Softstyle</th>
<th>Stalker</th>
<th>Bandit</th>
<th>Legend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheel Base</td>
<td>68.50</td>
<td>68.00</td>
<td>69.75</td>
<td>71.00</td>
</tr>
<tr>
<td>Overall Length</td>
<td>95.25</td>
<td>96.00</td>
<td>104.00</td>
<td>99.00</td>
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<tr>
<td>Overall Width</td>
<td>41.00</td>
<td>34.75</td>
<td>42.50</td>
<td>34.75</td>
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<tr>
<td>Overall Height</td>
<td>45.00</td>
<td>46.50</td>
<td>54.00</td>
<td>52.50</td>
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<tr>
<td>Ground Clearance</td>
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<tr>
<td>Seat Height</td>
<td>24.75</td>
<td>26.50</td>
<td>28.00</td>
<td>25.50</td>
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</tbody>
</table>

### B. Weight: (pounds)

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<th></th>
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<th>Stalker</th>
<th>Bandit</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dry Weight</td>
<td>610</td>
<td>590</td>
<td>700</td>
<td>600</td>
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<td>Maximum Allowable Loaded Motorcycle Weight-GVWR</td>
<td>1100</td>
<td>1100</td>
<td>1210</td>
<td>1100</td>
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<tr>
<td>Maximum Allowable Loaded Motorcycle Axle Weight</td>
<td>GAWR-Front: 450</td>
<td>450</td>
<td>484</td>
<td>450</td>
</tr>
<tr>
<td></td>
<td>GAWR-Rear: 650</td>
<td>650</td>
<td>726</td>
<td>650</td>
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</table>
### C. Fluid Capacities:
- **Fuel Tank Capacity**: 5 gallons
- **Transmission**: 24 ounces
- **Primary**: Fill to bottom of clutch diaphragm spring
- **Oil Reservoir w/Filter**: 98 ounces for Softstyle/Bandit; 82 ounces for Stalker
- **Front Forks (each)**: 12 ounces

### D. Engine Specifications:
- **Number of Cylinders**: 2
- **Design**: 4 cycle, V-twin
- **Compression Ratio**: 10.1 : 1
- **Bore**: 3 5/8"
- **Stroke**: 4 5/8"
- **Volume Displacement**:
  - **Cubic Inches**: 96
  - **Cubic Centimeters**: 1573

### E. Transmission Specifications:
- **Number of Forward Speeds**: 5 speed / 6 speed optional
- **Type**: Constant Mesh
F. Drive Train Specifications:
   Number of Teeth
   Engine 24
   Clutch 37
   Transmission 34
   Rear Wheel 70 tooth standard or 65 tooth on 107 / 113

Driving Gear Ratios (standard)
1st Gear 2.94 : 1.00
2nd Gear 2.21 : 1.00
3rd Gear 1.60 : 1.00
4th Gear 1.23 : 1.00
5th Gear 1.00 : 1.00
6th Gear (optional) 1.00 : 0.86

G. Electrical Specifications:
   Battery 12 volt negative ground
   Spark Plug Champion
   Type RN12YC
   Gap 0.040 inches
   Size Thread 14 mm
H. Tire Specifications:

- **FOLLOWING PROPER PROCEDURES FOR YOUR MOTORCYCLE TIRES AND RIMS IS CRITICAL TO YOUR SAFETY.**
- **USE ONLY TIRES MEETING AMERICAN IRONHORSE SPECIFICATIONS AS OUTLINED IN “AMERICAN IRONHORSE CONSUMABLE TABLE.” NEVER MISMATCH TIRES, TUBES, RIMS OR AIR VALVES – THIS COULD RESULT IN TIRE FAILURE.**
- **ALWAYS USE TUBED TYPE TIRES WITH WIRE SPOKE WHEELS AND TUBELESS TYPE TIRES WITH CAST, DISC OR BILLET WHEELS. IN ADDITION, PROTECTIVE RUBBER RIM LINERS MUST ALWAYS BE EMPLOYED WITH WIRE SPOKE WHEELS.**
- **NEVER SWAP FRONT AND REAR TIRES. THEY ARE NOT INTERCHANGEABLE AND CAN LEAD TO VEHICLE INSTABILITY IN USE.**
- **NEVER EXCEED MAXIMUM INFLATION PRESSURE AS INDICATED ON TIRE SIDEWALL.**
- **NEVER INSTALL A NEW WHEEL/TIRE ASSEMBLY WITHOUT PROPER BALANCING.**

<table>
<thead>
<tr>
<th>Wheel Size</th>
<th>Tire Size</th>
<th>Type</th>
<th>Rim Size</th>
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<tr>
<td>Front Tire Size</td>
<td>Front Wheel Size</td>
<td>AM23</td>
<td>130/70 VB 18 tire</td>
</tr>
<tr>
<td>Front Tire Size</td>
<td>Front Wheel Size</td>
<td>AM20</td>
<td>90/90 H 21 tire</td>
</tr>
<tr>
<td>Rear Tire Size</td>
<td>Rear Wheel</td>
<td>AM23</td>
<td>180/55 VB 18 tire</td>
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## Brake Specifications:

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<th># Pistons</th>
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<td></td>
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<tr>
<td>All Models</td>
<td>11.5”</td>
<td>PM125X4S</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or AIH equivalent</td>
<td></td>
<td></td>
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<tr>
<td><strong>Rear</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Models</td>
<td>11.5”</td>
<td>PM125X4R</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or AIH equivalent</td>
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J. Fueling & Fuel Specifications:
Always use a high quality, high octane unleaded fuel. Minimum octane should be 91 to ensure maximum engine performance.

- ALWAYS REMOVE GAS TANK CAP SLOWLY. PRESSURE BUILD UP IN FUEL TANKS CAN CAUSE GASOLINE FLUID AND MIST TO CONTACT PERSON REFUELING.
- ALWAYS FILL TANK SLOWLY AND LEAVE THE TANK NECK SPOUT VOID AS FUEL EXPANDS WITH AMBIENT, AND OPERATING, TEMPERATURE INCREASES.
- ALWAYS ENSURE THAT GAS TANK CAP IS SECURELY TIGHTENED AFTER REFUELING, TAKING SPECIAL CARE NOT TO CROSS THREAD.

Note that the gas caps are a left and right thread and cannot be interchanged. Only the right cap is vented.

WARNING
- GASOLINE WITH FUEL ADDITIVES MAY CAUSE DAMAGE TO VEHICLE PARTS.
- GASOLINE SPILLS CAN DISCOLOR VEHICLE PAINT AND FINISHES.
- GASOLINE WITH METHANOL ADDITIVES SHOULD NOT BE USED.
The Critical First 500 Miles
Your AMERICAN IRONHORSE motorcycle has been road-test ridden by a trained AMERICAN IRONHORSE mechanic prior to shipment. Besides initiating the critical engine “break-in” period, a check of proper in-use systems operations has been conducted and any noted deficiencies corrected.

Now it is your turn to complete the critical engine “break-in” period. (Improper engine break-in may void your AMERICAN IRONHORSE limited warranty.)

First 500 Miles:
• **DO NOT OVERREV THE ENGINE DURING BREAK-IN PERIOD.**
• Never rev the engine in neutral gear.
• Avoid running engine in 4th or 5th gear at very low rpm.
• Never hold engine speed constant for long periods of time; vary the speed frequently.
• **AVOID “JACKRABBIT” STARTS OR RACING FROM A STANDSTILL WITH ENGINE THROTTLE WIDE OPEN.**
• Change oil and filter.

1000 Miles:
• Avoid engine overheating.
• Keep speed at or below 65 mph maximum.
• Vary engine speed.
• Change oil and filter.

Over 2,000 Miles – HAVE FUN AND RIDE SAFELY!
The ignition switch access is controlled by key to prevent unauthorized use. Always lock the ignition switch and remove the ignition switch key when vehicle is not in use. The ignition switch is wired to activate the headlight.

DO NOT MODIFY IGNITION SWITCH TO BYPASS THIS FEATURE.
ALWAYS OPERATE YOUR AMERICAN IRONHORSE WITH THE HEADLIGHT ON TO IMPROVE YOUR VISIBILITY TO OTHERS FOR IMPROVED SAFETY.

The ignition switch (Fig. #1, Letter B) has two operative positions as wired from the factory. The “off/lock” mode is located approximately at the 12 o’clock position. The switch mechanism is activated by inserting the key into the ignition key slot and turning the switch mechanism straight up and down and parallel with the bike frame.

To reach the “ON” position, rotate the ignition switch to approximately the 2 o’clock position. The headlight will come on when the switch has been positioned in the “ON” position.
Engine speed is controlled by the Engine Throttle Control Grip (Fig.#2, Letter A)

- Turn the Engine Throttle Control Grip counterclockwise (towards the operator) to increase engine speed.
- Turn the Engine Throttle Control Grip clockwise (away from operator) to reduce engine speed.

An Engine Throttle Tension Adjustment Screw (Fig. #2, Letter B) is provided to increase or decrease gripping pressure required to activate throttle control.

Unscrew the Engine Throttle Tension Adjustment Screw such that the throttle control returns to the idle position when operator's hand is removed. This is the normal operating tension for the throttle control grip.

The Engine Throttle Tension Adjustment Screw may be screwed in from the normal operating tension to reduce the continuous grip pressure that the operator must apply to keep the Engine Throttle Control Grip activated. This will reduce operator fatigue on long highway trips.

THE ENGINE THROTTLE TENSION ADJUSTMENT SCREW SHOULD NEVER BE TIGHTENED SO THAT THE CONTROL GRIP WILL NOT AUTOMATICALLY RETURN THE ENGINE TO THE IDLE POSITION WHEN RELEASED. SUCH OVERTIGHTENING MAY CREATE A DANGEROUS SITUATION WHEN THE ENGINE WILL NOT AUTOMATICALLY RETURN TO THE IDLE POSITION IN AN EMERGENCY.
Your AMERICAN IRONHORSE has been tuned at the factory for optimum fuel-to-air mixture ratio. However, to facilitate initial starting of the engine, it is sometimes necessary that the fuel-to-air mixture ratio be increased with a higher concentration of fuel than what is required for normal, warm engine operation.

This temporary adjustment to fuel-to-air mixture ratio is accomplished by adjusting the fuel/air mixture lever (CHOKE or enrichener). See Section 2-4 Starting Procedures.

As the CHOKE or enrichener is engaged, engine speed will increase as a richer fuel mixture is delivered to the engine. During normal operation, the CHOKE should always be in the “OFF” (fully depressed) position.

**WARNING**

**OPERATING ENGINE FOR EXTENDED PERIODS WITH THE FUEL/AIR MIXTURE LEVER (CHOKE) IN THE “ON”, ENGAGED POSITION MAY CAUSE IMPROPER ENGINE PERFORMANCE AND FOULING OF SPARK PLUGS.**
To facilitate an easy start of the vehicle’s engine, the following choking, throttle speed control sequence is recommended. Always ensure transmission is in the “NEUTRAL” position. Determine if your American IronHorse motorcycle came equipped with an S&S carburetor or a Mikuni carburetor (ask your dealer), and follow appropriate starting instructions.

A. FOR COOL WEATHER (lower than 45˚F) AND COOL ENGINE with S&S carburetor (Fig. #5):
   • Turn fuel petcock (located on bottom of left tank to “ON” position.
   • Twist throttle control grip counterclockwise (toward operator) two times and return grip to engine idle position.
   • Pull up enrichener lever (Letter C) to its maximum extended position. Lever is located just above and to the rear of the S&S air cleaner cover.
   • Start engine.
   • Twist throttle speed control grip as required to keep engine running.
   • After engine has run for a period long enough to warm-up (usually no longer than 1 minute) depress the enrichener to the “OFF” position.

NOTE: If enrichener is left on while throttle is actuated, the spark plugs will foul and cause motor to perform poorly. To fix fouled plugs, remove and replace.
B. FOR COOL WEATHER (lower than 45˚F) AND COOL ENGINE with Mikuni carburetor (Fig. #3):
   • Turn fuel petcock (locate on bottom of left tank) to “ON” position.
   • Twist throttle control grip counterclockwise (toward operator) two times and turn grip to engine idle position.
   • Pull out choke knob (Letter A). Knob is located above horn bracket on all softstyle models, and to the rear of the coil on a rubber mounted models.
   • Start engine.
   • Twist throttle speed control grip as required to keep engine running.
   • After engine has run for a period long enough to warm-up (usually no longer than 3 minutes) depress the choke knob inward to the “OFF” position.

   **NOTE:** If choke is left on while throttle is actuated, the spark plugs will foul and cause motor to perform poorly. To fix fouled plugs, remove and replace.

C. FOR WARMER WEATHER (above 45˚F) AND COOL ENGINE for both carburetor types:
   Use similar procedures as indicated in the preceding paragraph (A) but reduce the warm-up time and choke by approximately one half.

D. FOR ENGINE ALREADY WARM OR HOT FROM RECENT PRIOR USE:
   • Turn fuel petcock to “ON” position.
   • Ensure choke is in the “OFF,” fully pushed-in position.
   • Twist throttle counterclockwise approximately one quarter turn.
   • Start engine.
Should the engine fail to start after repeated attempts, it often is the result of engine “flooding”, i.e. too rich a fuel/air mixture. This is often exhibited when attempting to start a hot engine. In such cases:

- Ensure choke is in the “OFF,” fully depressed position.
- Turn throttle control grip to the full “ON,” full counterclockwise position.
- Start engine.
- Do not “feather” the throttle while attempting to start the engine. Leave throttle in the wide open position to offset the effects of “flooding.”
- Immediately upon starting, return throttle position to idle.

BEFORE ATTEMPTING TO START THE ENGINE, ALWAYS ENSURE THAT THE TRANSMISSION IS SET TO THE NEUTRAL POSITION (THE GREEN DASH INDICATOR SHOULD BE ILLUMINATED). ATTEMPTING TO START THE ENGINE WHILE THE TRANSMISSION IS IN A FORWARD GEAR MAY CAUSE VEHICLE MOVEMENT RESULTING IN POSSIBLE PERSONAL INJURY AND/OR VEHICLE DAMAGE.
WARNING
THE CLUTCH MECHANISM MUST BE FULLY DISENGAGED BEFORE CHANGING GEAR POSITIONS. FAILURE TO DO SO CAN RESULT IN DAMAGE TO CLUTCH AND/OR TRANSMISSION.

DOWNSHIFTING (SHIFTING FROM A HIGHER TO A LOWER GEAR POSITION) AT SPEEDS IN EXCESS OF THOSE LISTED IN THE “GEAR SHIFTING TABLE” IN THIS SECTION OF THE MANUAL MAY RESULT IN SEVERE DAMAGE TO THE VEHICLE AND LOSS OF CONTROL OF THE VEHICLE DUE TO REAR WHEEL TRACTION LOSS.

The clutch engage/disengage mechanism is controlled by the clutch hand lever on the left side handlebar of the vehicle. (Fig. #4, Letter A)

Squeezing the lever in toward the grip disengages the clutch mechanism. Releasing the clutch lever engages the clutch mechanism.

The clutch mechanism is the means by which the engine and transmission gears are engaged and disengaged to allow the vehicle to stand still while the engine is still running and to disengage engine from transmission to allow smooth changing of gears.
The gear shifter lever is located on the lower left side of the vehicle. (Fig. #5, Letter A). It is operated with the left foot.

To change gears, the gear shifter lever must be raised all the way up with the top of the left foot to increase the gear number desired and must be lowered all the way down with the bottom of the left foot to lower the gear number desired. One full traverse up or down will accommodate one full gear position change up or down.

ALWAYS RELEASE THE CLUTCH LEVER SLOWLY TO ALLOW THE ENGINE AND TRANSMISSION TO ENGAGE SMOOTHLY AND TO ALLOW THE REAR TIRE TO DEVELOP POSITIVE TRACTION WITH THE ROAD. FAILURE TO DO SO CAN RESULT IN MECHANICAL DAMAGE, EXCESSIVE WEAR AND BODILY INJURY DUE TO LOSS OF VEHICLE CONTROL.
### Gear Shifting Speed Table

#### RECOMMENDED ACCELERATION SPEED

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>M.P.H.</th>
<th>KM/Hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Gear</td>
<td>2nd Gear</td>
<td>15</td>
<td>24</td>
</tr>
<tr>
<td>2nd Gear</td>
<td>3rd Gear</td>
<td>25</td>
<td>40</td>
</tr>
<tr>
<td>3rd Gear</td>
<td>4th Gear</td>
<td>40</td>
<td>63</td>
</tr>
<tr>
<td>4th Gear</td>
<td>5th Gear</td>
<td>50</td>
<td>79</td>
</tr>
<tr>
<td>5th Gear</td>
<td>6th Gear</td>
<td>65</td>
<td>103</td>
</tr>
</tbody>
</table>

#### RECOMMENDED DECELERATION SPEED

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
<th>M.P.H.</th>
<th>KM/Hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6th Gear</td>
<td>5th Gear</td>
<td>50</td>
<td>79</td>
</tr>
<tr>
<td>5th Gear</td>
<td>4th Gear</td>
<td>40</td>
<td>63</td>
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<tr>
<td>4th Gear</td>
<td>3rd Gear</td>
<td>30</td>
<td>48</td>
</tr>
<tr>
<td>3rd Gear</td>
<td>2nd Gear</td>
<td>20</td>
<td>32</td>
</tr>
<tr>
<td>2nd Gear</td>
<td>1st Gear</td>
<td>10</td>
<td>16</td>
</tr>
</tbody>
</table>

After each gear shift, the gear shift lever must be allowed to return to its “rest” position before it can be actuated again for another gear change. This is accomplished by merely removing left foot pressure and allowing the mechanism’s spring to return the foot lever to its rest position.
The “neutral” or “no gear” position is found between 1st and 2nd gear. The neutral position completely disengages the engine and transmission regardless of the position of the clutch control lever.

To shift to the “neutral” gear or position, it is only necessary to lift or push down (depending upon which gear you are shifting from) the gear shift lever one half of its normal traverse distance. Neutral gear can be reached by depressing the gear shift lever one half of its normal traverse from second (2nd) gear or by lifting the gear shift lever up by one half of its normal traverse from first (1st) gear.

When at a standstill with the engine off and wanting to shift gears it may be necessary to slightly “roll” the vehicle forward and backward while the clutch mechanism is fully engaged and with slight pressure on the foot gear shifting lever.

If at a standstill with the engine running and wanting to shift gears and experiencing difficulty in so doing, do not force it. This could cause severe damage to the vehicle. Simply retry the “rocking” approach with the engine off. If this still does not work, with the engine running let the clutch lever out slightly while maintaining slight pressure on the foot gear shift lever. This maneuver may cause the vehicle to move slightly forward during engagement.
The following is a summary of procedures to be used to get underway and shift gears properly:

- **ALWAYS FULLY DISENGAGE THE HAND CLUTCH LEVER (SQUEEZED FULLY INTO HANDLEBAR GRIPS) BEFORE SHIFTING GEARS.**
- **NEVER GET UNDERWAY FROM A STANDSTILL IN ANY OTHER GEAR EXCEPT FIRST (1ST) GEAR.**

1. Start engine per procedures listed in Section 2-4 and maintain vehicle in a full upright position at engine idle with gear shifter in neutral position, physically seated and straddling the vehicle.
2. Squeeze clutch lever (Fig. #4, Letter A) to the fully disengaged position with left hand.
3. With the left foot, push the gear shifter foot lever (Fig. #5, Letter A) down as far as it will go and release it to return to its “rest” position. You should now be in first (1st) gear.
4. Slowly release the clutch lever (Fig. #4, Letter A) in your left hand to allow the clutch mechanism to gradually engage.
5. At the same time, slowly twist the right hand engine throttle control grip (Fig. #2, Letter A) counterclockwise (toward operator) to increase engine speed.
6. As the vehicle gets underway, continue to increase engine speed. Move feet onboard to their normal operating positions.
7. Begin the process of shifting from first (1st) to second (2nd) gear after the vehicle has progressed a few yards. First gear is used primarily to get the vehicle started moving forward and stabilized under operator control.

8. Simultaneously decelerate the engine (by twisting throttle control grip all the way clockwise, away from the operator) and disengage the clutch (by squeezing the clutch lever all the way into the control grip.)

9. Lift the foot gear shift lever to its full up position and release. This should put the vehicle into 2nd gear.

10. Repeat steps 8 and 9 to continue advancing in gear number to fifth (5th) gear or sixth (6th) gear as desired.

Use “Gear Shifting Speed Table” as a guide as to when to shift to the next highest gear.

To downshift (shift from a higher to a lower gear) follow the similar procedure of disengaging clutch, only reducing engine throttle by about one half to ensure engaging to a lower gear does not cause the rear wheel to lose traction, depressing the foot shifter lever to its full down position and release, smoothly releasing the clutch lever to permit engagement, and increasing throttle speed as desired. Always shift into first gear when coming to a full stop.

**Downshifting (Shifting from a Higher to a Lower Gear Position) At Speeds in Excess of Those Listed in the “Gear Shifting Speed Table” in This Section of the Manual May Result in Severe Damage to the Vehicle and Loss of Control of the Vehicle Due to Rear Wheel Traction Loss. Gear Shifting Speeds Should Be Adjusted Downward If Road Surface Conditions Warrant.**
Your AMERICAN IRONHORSE vehicle is equipped with both front and rear brakes. (Fig. #6, Letter A) (Some standard models and model options offer more than one set of brakes per wheel.)

For more detailed information about your braking components, refer to Section 2-6 of this manual.

The front brake(s) is operated by squeezing the front brake hand lever located on the right handlebar. (Fig. #2, Letter E) The rear brake is operated by depressing the rear brake pedal on the lower right hand side of the vehicle. (Fig. #7, Letter A)

- BRAKES ARE BEST USED WHEN EQUALLY BALANCED BETWEEN BOTH FRONT AND REAR BRAKE FOR BRAKING AND STOPPING.
- NEVER APPLY BRAKES SO STRONGLY THAT FRONT OR BACK WHEELS “LOCK UP.” THIS WILL CAUSE LOSS OF OPERATOR CONTROL AND MAY RESULT IN PERSONAL INJURY.
- ALWAYS APPLY BRAKES SMOOTHLY AND BALANCED BETWEEN FRONT AND REAR WHEELS.
- BRAKES SHOULD BE USED SPARINGLY ON WET PAVEMENT.

Note that a rear wheel slide can be somewhat controlled, but a front wheel slide cannot.
Your AMERICAN IRONHORSE motorcycle is equipped with front and rear, left and right side self-canceling turn signals on all models except the Stalker (Fig. #7, Letters C & D).

These turn signals are operated by turn signal switches located on the vehicle's handlebar controls. The left side turn signal switch (Fig. #4, Letter E) operates both the front and rear left side turn signal lights. The right side turn signal switch (Fig. #2, Letter F) operates both the front and rear right side turn signal lights.

Depressing either turn signal switch will begin the corresponding side turn indicator lights blinking on and off. On Stalker models, they will continue to blink until manual pressure on switch is removed.

Always ensure that turn signal lamps are operating. Replace burned-out lamps only with replacements as listed in “AMERICAN IRONHORSE Consumable Table.”

NEVER REMOVE FACTORY INSTALLED TURN SIGNALS OR REPLACE WITH NON-D.O.T. APPROVED VERSIONS. REPLACEMENTS MAY BE MORE DIFFICULT TO BE SEEN BY OTHER VEHICLE OPERATORS.
Various indicator lights are provided on the vehicle control panel located just below the vehicle’s handlebars and centered on vehicle’s gas tanks. (Fig. # 1, Letter D)

- Turn signal indicators (AMBER) indicates which turn signal is flashing, right or left.
- Headlamp high beam indicator (BLUE) indicates that the front headlight is lit and in the high beam position.
- The neutral gear indicator light, (GREEN) means that the vehicle’s transmission is in the neutral position.
- The low oil pressure light (RED) indicates that the engine is experiencing low oil pressure. When initially starting the vehicle, this indicator light should momentarily go on for one or two seconds before the engine is experiencing adequate oil lubrication. This condition should last only one or two seconds. Sometimes, especially when a vehicle’s idle speed is set very low, this light may flash on as the vehicle idles.

**IF THE RED LOW OIL PRESSURE LIGHT REMAINS ON AS ENGINE SPEED INCREASES ABOVE IDLE, IMMEDIATELY TURN OFF THE ENGINE. OPERATING THE VEHICLE’S ENGINE WITH LOW OR NO OIL PRESSURE CAN SERIOUSLY DAMAGE THE ENGINE. OPERATING AN ENGINE WITH LOW OR NO OIL PRESSURE MAY SEIZE UP THE ENGINE CAUSING SEVERE DAMAGE AND RESULTING IN POSSIBLE PERSONAL INJURY TO THE OPERATOR. SEEK IMMEDIATE PROFESSIONAL ATTENTION TO THE SITUATION BEFORE RESTARTING OR REUSING THE VEHICLE.**
Your AMERICAN IRONHORSE motorcycle is equipped with one or more of these indicators, all of which are located on the vehicle’s control panel (Fig. 1, Letter D).

- **Speedometer** – Your vehicle’s speedometer provides a continuous reading (either digital or analog) of the vehicle’s forward speed.

**WARNING**

NEVER ALTER OR TAMPER WITH VEHICLE’S ODOMETER READING. THIS IS ILLEGAL AND MAY ALSO PERMANENTLY DAMAGE THE VEHICLE.

- **Odometer** – Your vehicle’s odometer indicates total miles traveled by the vehicle since leaving the factory.

**NEVER EXCEED THE POSTED SPEED LIMIT. ALWAYS LOWER SPEED BELOW THE POSTED SPEED LIMIT WHEN CONDITIONS WARRANT.**
The vehicle’s front headlight is automatically turned on by activating the key ignition switch to the “ON” position. (Fig. #1, Letter B)

- To turn on high beams, push the headlight switch to “HI” position.
- To turn headlights down to normal intensity, push switch back to the “LO” position.

The vehicle’s horn can be momentarily activated by depressing the horn switch on the left side handlebar controls. (Fig. #4, Letter D) Removing pressure from the switch will discontinue horn operation.
Your vehicle is provided with a kickstand mechanism to support your vehicle when not in use.

To extend the kickstand (Fig. #6, Letter C), sitting on the motorcycle, hold the vehicle upright with hands properly positioned on handlebars and engage the kickstand with your left foot. Swing the kickstand to the fully extended, locked position with your foot.

Always turn handlebars to the left and gently allow the vehicle to lean onto the kickstand mechanism ensuring that the kickstand is properly positioned and fully supporting the vehicle before removing hands and support from the front handlebars.

**WARNING**

**ALWAYS PARK YOUR VEHICLE ON A LEVEL, FIRM SURFACE CAPABLE OF HANDLING THE WEIGHT OF THE MOTORCYCLE AS IT IS TRANSMITTED THROUGH THE KICKSTAND MECHANISM TO THE SUPPORTING SURFACE. FAILURE TO DO SO COULD RESULT IN THE VEHICLE FALLING OVER AND CAUSING VEHICLE DAMAGE AND POSSIBLE PERSONAL INJURY.**
• ENSURE THAT THE KICKSTAND IS IN THE FULLY FORWARD, LOCKED POSITION BEFORE APPLYING THE WEIGHT OF THE VEHICLE. IF THIS IS NOT DONE, ANY SUBSEQUENT MOTION OR MOVEMENT OF THE VEHICLE MAY RESULT IN RETRACTION OF THE KICKSTAND AND THE VEHICLE FALLING OVER TO THE PARKING SURFACE. THIS WOULD CAUSE DAMAGE TO THE VEHICLE AND POSSIBLE PERSONAL INJURY TO THE OPERATOR OR OTHERS. THE WEIGHT OF THE MOTORCYCLE ENSURES THAT THE KICKSTAND STAYS IN THE FULLY EXTENDED, LOCKED POSITION ONCE PROPERLY ENGAGED.

• ENSURE THAT THE KICKSTAND HAS BEEN FULLY RETRACTED BEFORE RIDING THE VEHICLE. FAILURE TO DO SO COULD CAUSE DAMAGE TO THE VEHICLE AND POTENTIAL LOSS OF VEHICLE CONTROL BY THE OPERATOR.

• FAILING TO TURN HANDLEBAR TO THE LEFT WHEN USING KICKSTAND COULD CAUSE VEHICLE TO FALL TO THE RIGHT CAUSING DAMAGE TO THE MOTORCYCLE OR SERIOUS PHYSICAL INJURY.
Your AMERICAN IRONHORSE is equipped with handlebar mounted side mirrors. (Fig. #2, Letter G and Fig. #4, Letter B) These mirrors have a curved, convex viewing surface in order to provide the operator with a wider span of visibility to the rear.

The convex nature of the mirror gives the illusion that items viewed in the rear view mirror are smaller and thus farther away from you than they really are. Therefore, great care must be exercised when making judgments as to how far back items actually are in your rear view mirror.

Objects viewed in your rear view mirrors are closer than they appear. Take care when judging distances through use of rear viewing mirrors.

Using rear viewing mirrors is an excellent habit to develop. Always check the positioning of your mirrors before starting off on a ride. Always use “Over the Shoulder” check method to check blind spots not visible through mirrors.

Caution
*Mirrors can become misaligned through vehicle use, bumping, vibration, etc. Always ensure that your mirrors are firmly attached to the vehicle and are adjusted according to the operator’s requirements prior to each ride.*
Always secure your vehicle when not in use. At a minimum, this includes locking and removing the key from the ignition and padlocking the brake rotor mechanism. (Fig. #6, Letter A) Always use a heavy duty rotor lock when securing your AMERICAN IRONHORSE.

**WHEN THE ROTOR LOCK IS IN PLACE, VEHICLE CANNOT ROLL. NEVER ATTEMPT TO RIDE A VEHICLE WHOSE ROTOR LOCK MECHANISM IS LOCKED. THIS MAY RESULT IN SERIOUS PERSONAL INJURY.**
Your AMERICAN IRONHORSE is supplied with two 2.5 gallon gas tanks. Each is fitted with its own gas cap. Take care not to cross gas cap threads during reattachment.

To remove the left side tank gas cap, turn the cap clockwise. To secure left side tank gas cap, turn the cap counterclockwise.

To remove the right side tank gas cap, turn the cap counterclockwise. To secure right side tank gas cap, turn the cap clockwise.
WHEN REFUELING:

• ALWAYS REMOVE GAS TANK CAPS SLOWLY. PRESSURE BUILD UP IN FUEL TANKS CAN CAUSE GASOLINE FLUID AND MIST TO CONTACT PERSON REFUELING.
• ALWAYS FILL TANK SLOWLY AND LEAVE THE TANK NECK SPOUT VOID AS FUEL EXPANDS WITH AMBIENT, AND OPERATING, TEMPERATURE INCREASES.
• ALWAYS ENSURE THAT GAS TANK CAP IS SECURELY TIGHT AFTER REFUELING, TAKING SPECIAL CARE NOT TO CROSS THREAD.
• NEVER REPLACE FACTORY EQUIPPED GAS TANK CAPS WITH ONES WHICH REQUIRE FEWER TURNS TO REMOVE. THESE “QUICK CAPS” CAN EASILY BE DISLODGED AND ALLOW EASY SPILLAGE OF GASOLINE FROM THE TANK. SUCH SPILLAGE MAY BE SUBSEQUENTLY IGNITED, AS IN A VEHICLE UPSET.

WARNING

• GASOLINE WITH FUEL ADDITIVES MAY CAUSE DAMAGE TO VEHICLE PARTS.
• GASOLINE SPILLS CAN DISCOLOR VEHICLE PAINT AND FINISHES. CLEAN OFF IMMEDIATELY.
1. If you have an AMERICAN IRONHORSE Classic, Outlaw, Legend, Slammer or Thunder, they are equipped with two shock absorbers located in the underside of your vehicle. (Fig. #6, Letter B)

2. These shock absorber devices are constructed of a spring mechanism mounted in a container with a shaft at one end and a frame mounting collar at the other. These shock absorbers are set at the factory and should be replaced with new devices when worn.

3. Your AMERICAN IRONHORSE Stalker & Bandit Rubber Mount Series are equipped with two external shock absorbers.

4. These shock absorbers can be adjusted for rebound and dampening settings.

Your AMERICAN IRONHORSE was custom designed to operate with an operator and optionally with one passenger riding directly behind the operator in an appropriate companion seat. The addition of accessories, additional weight loads, etc. have not been taken into consideration in the vehicle design and are to be strictly avoided.

NEVER ADD WEIGHT LOADS AND/OR ACCESSORIES BEYOND RIDER AND ONE PASSENGER. SUCH ADDITIONAL WEIGHT AND POTENTIAL WIND DYNAMIC LOADS MAY CAUSE VEHICLE INSTABILITY AND RESULT IN PERSONAL INJURY. SIMILARLY, CUSTOMIZATION OF ORIGINAL VEHICLE DESIGN SHOULD NEVER BE MADE UNLESS FORMALLY REVIEWED BY AMERICAN IRONHORSE AND CONFIRMED IN WRITING.
Like all mechanical devices, constant wear and tear on motorcycle parts and assemblies is a normal result of use. Recommended periodic inspection, topping off or changing fluids, and replacement of worn parts and assemblies is the only way to ensure continuous, safe operation of your AMERICAN IRONHORSE motorcycle. Strictly following recommended procedures cannot be overemphasized.

**General procedures of maintenance:**

Insuring a safe, well operating AMERICAN IRONHORSE motorcycle requires a partnership between rider and a competent, formally trained, professional motorcycle mechanic.

**THE MECHANIC WILL PERFORM PERIODIC RECOMMENDED PROCEDURES AND TESTS AT RECOMMENDED MILEAGE INTERVALS.** The rider will perform checks prior to every ride and between recommended intervals. In this way your AMERICAN IRONHORSE motorcycle will continuously receive the attention needed for safe and pleasurable ownership.
1. Check fluid levels on transmission, primary and engine oil.
2. Check tires for proper inflation and general inspection of tire surfaces for uneven wear, excessive tread wear, cuts or abrasions. Check wheel spoke tightness, if applicable.
3. Check drive belts or chains for proper tension and integrity.
4. Check operation of brakes, brake fluid levels, brake hydraulic lines and fittings for leaks or damage and brake pads and discs for excessive and/or uneven wear.
5. Check system lamps for proper operation: headlight, taillight, brake light, and front and rear directional lights.
6. Check major operating systems for proper function: throttle controls, steering and brakes. Ensure all operating cables are in good condition and free from interference.
7. Ensure proper engine idle speed and operation and that throttle and choke controls are correct.
WARNING

RECOMMENDED INTERVAL MAINTENANCE AND INSPECTIONS ARE CRITICAL TO OPERATOR SAFETY AND A PROPERLY PERFORMING MOTORCYCLE. ENSURE THAT THE MECHANIC WORKING ON YOUR MOTORCYCLE IS FORMALLY TRAINED, EXPERIENCED, AND PROFESSIONALLY QUALIFIED TO PERFORM THESE IMPORTANT PROCEDURES.

THE FIRST RECOMMENDED COMPLETE, PROFESSIONAL INSPECTION AND MAINTENANCE MUST BE PERFORMED AT 500 MILES.

SUBSEQUENT PROFESSIONAL INSPECTION AND MAINTENANCE PROCEDURES MUST BE PERFORMED AT LEAST EVERY 2500 MILES THEREAFTER. CONSEQUENTLY, A COMPLETE, PROFESSIONAL INSPECTION AND MAINTENANCE MUST BE PERFORMED AT THE FOLLOWING ODOMETER INTERVALS: 500 MILES, 2500 MILES, 5000 MILES, 7500 MILES, 10000 MILES, AND SO ON FOR THE LIFE OF THE MOTORCYCLE.
Procedures are categorized by motorcycle system. Consult “AMERICAN IRONHORSE Consumable Table” for proper replacement items.

a. Engine System:
   • Drain and replace engine oil with 20W50 weight non-synthetic motor oil. Similar weight synthetics may be used after initial 2,000 miles have been completed.
   • Replace oil filter and filter gasket.
   • Replace air cleaner.
   • Inspect, clean or replace tappet oil screen.
   Note: Always apply blue Loctite or equivalent to fasteners upon reassembly.

b. Electrical Systems:
   • Check integrity of battery connections.
   • Replace spark plugs and check for proper gap setting.
   • Check that all lights are functioning properly: headlight, front and rear turn signal lights, brake light and taillight.
   • Check all electrical switches and assemblies for proper operation.
c. Drive Train Systems:
   • Check rear belt for proper tension, condition of teeth and general integrity of belt (if applicable).
   • Check primary chain for proper tension, condition of links and general integrity.
   • Check clutch control cable integrity and interconnections.
   • Check clutch adjustment.
   • Drain and replace transmission fluid with 80W-90 transmission fluid. Drain and replace primary fluid with HD primary fluid.

d. Fuel, Ignition and Throttle Systems:
   • Check fuel valve and lines for leaks and general integrity.
   • Remove and clean tank filter screen(s).
   • Check proper operation of throttle and choke controls.
   • Check proper engine idle speed.
   • Check speedometer cable and connections.
   • Check integrity and interconnections on throttle control cables.
   • Lubricate cables as necessary to avoid corrosion.
   • Check ignition timing.
e. Braking Systems:
   • Check brake fluid level and general condition of fluid, replace or replenish as indicated by inspection.
   • Check brake pads and discs for wear life and abnormal or uneven patterns of wear. Replace in sets as indicated.
   • Check rear brake pedal height adjustment.
   • Check front and rear brake lever operation.
   • Check brake caliper mounting integrity.
   • Check brake system hydraulic lines and fittings for integrity (leaks, fraying, etc.).
   • Check brake hand levers.

f. Wheels and Tires:
   • Check tire pressure, front and rear.
   • Check front and rear tire surfaces for uneven wear, tread thickness, cuts or abrasions.
   • Check wheel bearings.
g. Suspension System:
   • Replace front end fork oil at 10,000 mile intervals, beginning with odometer reading of 10,000 miles.
   • Check, adjust front fork neck bearings.
   • Check, adjust rear fork bearings.
   • Check, adjust rear fork pivot nut.
   • Check condition of shock absorbers.

h. Other Checks:
   • Check engine mounts (special attention to top mount).
   • Check motorcycle alignment.
   • Check integrity of vapor containment system and interconnections (on California models only).
   • Check all points of fastening for proper tightness and adhesive interlocking as applicable (see Torque Specs).
AFTER EVERY RECOMMENDED INTERVAL MAINTENANCE, A COMPETENT, PROFESSIONALLY TRAINED AND EXPERIENCED MOTORCYCLE MECHANIC SHOULD ROAD TEST THE MOTORCYCLE TO ENSURE THAT ALL VEHICLE SYSTEMS ARE IN GOOD, SAFE OPERATING CONDITION.

- NEVER USE A PRESSURE WASHER ON YOUR MOTORCYCLE AS IT MAY RESULT IN FAILURE/DAMAGE OF ELECTRICAL SYSTEM OR COMPONENTS.
Proper engine lubrication is critical to the life and performance of your vehicle’s engine. AMERICAN IRONHORSE engines run best with 20W50 rated oil. For extremely low operating temperatures, (below 40° F) 10W40 may be used.

Change oil at recommended service intervals. In colder weather, dusty road conditions or generally more demanding conditions, it is recommended that engine oil be changed more frequently.

Under normal operating conditions, slight water vapor in the crankcase is expelled through the oil breather port. However, operation in extremely cold ambient conditions or riding in short runs may not allow the engine oil to heat up to the point of passing water vapor thereby retaining it in the crankcase. Such occurrences may block oil flow lines and create sludge in the crankcase.

**WARNING**

**CHANGE THE OIL MORE FREQUENTLY THAN NORMAL SERVICE INTERVALS IN COLD WEATHER USE. ENSURE THAT CRANKCASE OIL IS THOROUGHLY HEATED BEFORE DRAINING TO ENSURE COMPLETE REMOVAL OF ALL ACCUMULATED WATER.**
Engine oil level can be checked by removal of the oil reservoir cap, (Fig. # 8, Letter C) and verifying that engine oil level is approximately 1/2" to 1" below top of oil tank. Engine oil levels should be checked each time your vehicle’s gas tanks are filled.

In order to properly read engine oil level, engine oil must be at normal operating temperature level. Achieving this condition will vary according to ambient temperatures.

When the engine oil has reached the appropriate temperature, turn off the engine and remove the oil cap. If level indicates addition of oil is required, do so using S.A.E. 20W50 oil. Oil is added through the fill spout opening (Fig. 8, Letter C).

**WARNING**

*ALWAYS USE THE APPROPRIATE FILLING DEVICE TO ENSURE THAT OIL DOES NOT SPILL ONTO VEHICLE PARTS, TIRES, OR PAVEMENT UNDER THE VEHICLE. THIS MAY CAUSE DAMAGE TO THE VEHICLE AND MAY CAUSE VEHICLE OPERATOR TO LOSE CONTROL WHEN TIRES COME IN CONTACT WITH OIL SLICK TRACTION SURFACES.*
When engine oil requires replacement:
• Ensure oil is warm from vehicle engine operation.
• Place an appropriately sized container directly under the oil tank drain plug.
• Remove drain plug ensuring that cascading or splashing oil will not come in contact with eyes or skin.
• Allow engine oil to thoroughly drain. (About 5 minutes.)
• Replace oil drain plug.
• Remove oil filter by unscrewing canister in a counterclockwise direction. (Fig. #3, Letter B)
• Clean oil filter mounting plate surface to remove any foreign material, old gasket remnants, etc.
• Apply a thin film of oil to the cleaned oil filter mounting plate. Apply a similar thin film of oil to a new oil filter gasket.
• Screw the new filter with gasket into oil filter mounting plate. Fill oil tank with appropriate amount of oil listed in 1-2, Section C Fluid Capacities Type listed in Consumables Table 1.
• Start engine after filling oil tank with about 72 ounces of oil. Watch for the oil level to lower as the filter fills; then foam starts forming on oil surface as oil starts to return from engine. Finish topping off tank with the balance of the required amount of oil (from chart).
• Replace oil tank cap.
Proper transmission lubrication is critical to the safe, long life operation of your vehicle's transmission. Transmission fluid should be replaced at recommended maintenance intervals. If the vehicle is not ridden often, transmission fluid should be changed at least annually.

Transmission fluid levels should be checked monthly between recommended service intervals. To check transmission fluid level:

• Ensure that the vehicle's engine has reached normal operating temperature and is turned off.
• Ensure that the vehicle is standing straight up, level and vertical with the pavement.
• Allow about two minutes for the vehicle's transmission fluid to equalize before taking a reading. Proper level is read with dipstick touching first thread of case. Transmissions are easy to overfill and very messy when overfilled.
• Remove and read the indicated transmission fluid level on the transmission fluid dipstick. (Fig. # 9, Letter A) If indicated, add transmission fluid type recommended in “AMERICAN IRONHORSE Consumable Table” in this manual through the transmission fluid dipstick port.
• Prior to draining spent transmission fluid, place an appropriately sized container directly under the transmission fluid drain plug. (Fig.#9, Letter B)
• Unscrew the drain plug ensuring that cascading or splashing fluid will not come in contact with eyes or skin.
• Allow fluid to thoroughly drain. (About 5 minutes.)
• Replace drain plug by tightening in a clockwise direction. Replenish with new transmission fluid as recommended in “AMERICAN IRONHORSE Consumable Table” through the transmission dipstick port. Quantities are listed in Section 1-2, Section C.
• Reinsert and check dipstick for new fluid level.
WARNING
BE CAREFUL NOT TO OVERTIGHTEN DRAIN PLUG, ABOUT 6 TO 8 FOOT POUNDS IS ADEQUATE. ASSURE THAT NO FOREIGN MATERIAL, DUST, DEBRIS, ETC. ARE INTRODUCED INTO THE TRANSMISSION DURING DRAINING AND REFILLING OF RESERVOIR.

ENSURE THAT TRANSMISSION FLUID DOES NOT SPILL OVER ONTO TIRES, BRAKES OR REAR WHEEL AS THIS COULD IMPAIR SAFE OPERATION OF THE VEHICLE AND CAUSE BODILY HARM.
Tension and integrity of the primary and rear drive belt or chains should be checked at each recommended service interval unless vehicle operation indicates sooner.

Belts should also be inspected for fraying, uneven wear pattern and excessive tooth surface wear.

Primary chain must have chain tightness checked. Primary chain should have 3/8"-5/8" play hot and no more than 7/8" cold. In addition to belt condition, tightness of belts on pulleys must be checked. This is accomplished by alternately applying a ten (10) pound force to the top and bottom belt strands in the center of the distance between the two pulleys. The “play” or deflection on the bottom strand should be 1/2”.

A trained, professional mechanic should conduct belt inspection and adjustments. Unsuitable belts should be discarded and replaced with recommended belts from “AMERICAN IRONHORSE Consumable Table.”

In order to check primary fluid level, remove the derby cover to make sure that the bottom edge of the clutch diaphragm spring is touching surface of fluid.
The clutch mechanism is controlled by the clutch lever (Fig. #4, Letter A) located on the left hand side handlebar. Interconnection between clutch mechanism and the clutch lever is made by the clutch control cable.

The clutch control cable must be oiled, adjusted and tested for proper operation at recommended inspection and maintenance periods. Improperly adjusted clutch cable or worn clutch plates can cause clutch slippage under load conditions or can cause hesitation before engaging upon lever release. These indications should be inspected and corrected by a trained, experienced mechanic.
Brake system pads and discs should be checked at recommended inspections and maintenance intervals. At the same intervals, brake system fluid level should be checked to ensure appropriate levels are maintained. Use only hydraulic brake fluids approved by U.S. Department of Transportation, D.O.T #5 such as that listed in “AMERICAN IRONHORSE Consumable Table.”

Brake pads and discs should be inspected for wear at least every 2,000 miles. Under city driving, stop and go conditions or with continuous operation in hilly terrain, more frequent inspections every 500 to 1,000 miles should be made.
Visual inspection of brake pads can be done without removing any parts. **IF THE THICKNESS OF THE BRAKE PAD FRICTION MATERIAL (NOT INCLUDING THE BRAKE PAD METAL BACKING PLATE) IS NOT AT LEAST 1/16 OF AN INCH MINIMUM, IMMEDIATELY REPLACE THE BRAKE PAD PAIR.** Always replace brake pads in pairs.

**OPERATING BRAKE SYSTEMS WITH BRAKE PAD FRICTION MATERIAL THICKNESS (NOT INCLUDING THE BRAKE PAD METAL BACKING PLATE) OF LESS THAN 1/16" IS VERY DANGEROUS AND CAN LEAD TO BRAKE FAILURE OR INADEQUACY OF BRAKING RESULTING IN SEVERE BODILY HARM.**
Proper tire operation is a critical safety element. It requires a constant vigilance by the operator to ensure continuous safe conditions.

Tire inflation pressure levels should be monitored at each tank fueling to ensure proper levels.

**IMPROPER TIRE INFLATION CAN CAUSE UNEVEN TIRE TREAD WEAR RESULTING IN UNSTABLE VEHICLE OPERATION. UNDERINFLATION OF TIRES CAN RESULT IN TIRE SLIPAGE OR TIRE FAILURE. THESE AND SIMILAR RESULTS OF IMPROPER TIRE INFLATION CAN RESULT IN SEVERE BODILY HARM.**

Always follow recommended inflation pressures of tire manufacturer. For AMERICAN IRONHORSE original equipment tires, the following inflation pressure should be maintained (measured when tire is cold, not immediately following road use.):

<table>
<thead>
<tr>
<th>TIRE INFLATION</th>
<th>PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIDERS</td>
<td>FRONT</td>
</tr>
<tr>
<td>Solo</td>
<td>32 p.s.i.</td>
</tr>
<tr>
<td>Solo plus one Passenger</td>
<td>32 p.s.i.</td>
</tr>
</tbody>
</table>
In addition to tire inflation pressure, the general condition of your vehicle’s tires is very important to continuously monitor.

- **NEVER USE DAMAGED OR REPAIRED TIRES.** Once your vehicle’s tire(s) has been so compromised, it should never be reused. It should be replaced with a new tire(s) as it is unsafe.

- **NEVER INDISCRIMINATELY REPLACE A SPENT TIRE WITH JUST ANY NEW TIRE.** Replacement new tires should be the same as original equipment tires. (See “AMERICAN IRONHORSE Consumable Table” for replacement tire information.) Selection of an improper replacement tire could cause unstable vehicle operation.

- Always have a trained, professional service replace your vehicle’s tires. Special procedures and tools are required to properly and safely install, maintain and replace tires, tubes and wheels.

- Operating your vehicle with excessively or unevenly worn, improperly inflated or unbalanced tires can effect vehicle stability and may result in serious injury.
• Always be attentive to situations where your vehicle’s tire(s) may have been overly stressed due to striking objects such as curbs, pot holes, etc. It is possible for a tire to experience severe internal damage in such situations without exhibiting any outward signs. Always have such tires removed and inspected, inside and out for possible damage before re-operating your vehicle with such tires. If ever in doubt of a tire’s stability for safe operation, replace it with a new tire. Never take chances on a questionable tire.

Wheel bearings and neck bearings should be inspected at each recommended inspection and maintenance interval. Unless deemed necessary to repack these bearings at more frequent intervals, all bearings should be repacked at 10,000 mile intervals or once annually whichever comes first. Indications of roughness of operation or excessive “play” in bearings should be heeded by initiation of bearing replacement or repacking. Repacking procedures should always include use of the proper lubrication medium and replacement of spent seals with new ones.

If shock absorbers malfunction or leak, they should be replaced (do not attempt to repair shock absorbers) with same as new shock absorbers model type as indicated in “AMERICAN IRONHORSE Consumable Table.”
Spark plugs should be inspected, cleaned and gap measured (and adjusted if required) at every recommended inspection and maintenance interval. Spark plugs should be replaced at a minimum of every 12,000 miles. (It is recommended that they be replaced every 2,500 miles for optimum vehicle performance.)

When replacing your vehicle’s spark plugs:

- Always replace with same as original equipment plugs as indicated in the “AMERICAN IRONHORSE Consumable Table.”
- Ensure the gap setting is between .040 and .045 inches. An appropriate spark plug feeler gauge should be used.
- Never remove spark plug wires from plugs by pulling on wires. Always grasp the molded rubber spark plug cap for removal of wires.
- Spark plugs should be tightened down to about 100 inch pounds to ensure proper, continuous operation.

Your AMERICAN IRONHORSE is equipped with one of the most advanced, electronic ignition systems presently available on the market. Its sophisticated electronic operation should only be addressed by a professionally trained mechanic. As set at the factory, your ignition systems optimizes fuel consumption, engine horsepower and exhaust emissions. It should not be adjusted except by a professional motorcycle mechanic familiar with its operation and functions utilizing the appropriate equipment.
• VEHICLE ALIGNMENT IS CRITICAL TO SAFE OPERATION OF YOUR VEHICLE. FRONT AND REAR WHEEL ALIGNMENT SHOULD BE CHECKED AT EACH RECOMMENDED INSPECTION AND MAINTENANCE INTERVAL. IF EXCESSIVE “PLAY” EXISTS IN FRONT OR REAR OF VEHICLE WHEN OPERATING, THIS COULD INDICATE AN OUT OF ALIGNMENT CONDITION THAT COULD LEAD TO A LOSS OF VEHICLE STABILITY AND/OR CONTROL. SUCH SITUATIONS COULD LEAD TO SEVERE BODILY INJURY.

• ADJUSTMENTS TO VEHICLE ALIGNMENT SHOULD ONLY BE DONE BY A PROFESSIONALLY TRAINED MOTORCYCLE MECHANIC.
Your vehicle’s battery is the critical energy source that permits normal electronic function. It is physically located under the vehicle operator’s seat. (Fig. # 8) In addition, its chemical nature requires constant attention and care to ensure reliable, full life use. In addition, its chemical nature requires important safety precautions to prevent severe bodily harm.

To create electricity, your vehicle’s battery is constantly in a state of chemical flux, thereby also creating explosive hydrogen gas as a by-product.

THE FOLLOWING PRECAUTIONS SHOULD ALWAYS BE EXERCISED WITH YOUR VEHICLE BATTERY:

- **Batteries contain sulfuric acid to properly operate. At all times, care must be taken not to bring eyes, skin, clothing or other items in contact with battery acid. Such contact could cause severe injury or damage.**
Your AMERICAN IRONHORSE battery is a heavy duty model to provide the adequate power needed to start your high horsepower engine. Replacement batteries should always be the same as original equipment as indicated in “AMERICAN IRONHORSE Consumable Table.”
WARNING
• DO NOT TIP BATTERY; OVERFLOW MAY DAMAGE OTHER VEHICLE PARTS AND POSSIBLY CREATE PERSONAL INJURY RISKS.
• ENSURE THAT BATTERY CONNECTIONS ARE TIGHT, CLEAN AND COATED WITH A LIGHT COVERING OF PETROLEUM JELLY TO RETARD CORROSION.

Batteries exhibit certain characteristics of note.
• If a battery sits for long periods of time, it will gradually lose its charge. If this condition persists, a battery may be permanently damaged and be unable to ever properly hold a charge and function properly again. A similar situation can occur if the internal battery plates remain uncovered without electrolyte for extended periods.
• If long term storage is required, it is recommended that the battery be in a fully charged condition, removed from the vehicle and stored in a cool dry place. The battery should be recharged before reinserting it into the vehicle after periods of idle storage.
• Battery fluids can freeze at low temperatures. This can result in lowered battery life or failure. Always ensure that your battery is protected from freezing temperatures. Batteries in a low charge condition are more susceptible to freezing.
Battery should be charged according to one of the two following charge rates.

For a 2 amp/hour battery charger, charge for 10 hours, or until charger shows “fully charged” for a partially discharged battery.

For a 10 amp/hour battery charger, charge for 1 hour, or until charger shows “fully charged” for a partially discharged battery.
Step 1. Connect one end of the positive jumper cable to the discharged battery's positive terminal. Ensure the connection breaks through any surface contamination that may exist on the battery terminal. (Fig. # 8, Letter A)

Step 2. Connect the opposite end of the positive jumper cable to the strong, booster battery’s positive terminal.

Step 3. Connect one end of the negative jumper cable to the strong, booster battery’s negative terminal. (Fig. # 8, Letter B)

Step 4. Finally, connect the opposite end of the negative jumper cable to a safe ground on the uncharged vehicle.

Step 5. Start the disabled motorcycle.

Step 6. Quickly but safely remove the cables in the reverse order that they were applied; namely a sequence of steps 4, then 3, then 2, then 1.

- DO NOT ALLOW SMOKING, SPARKS OR OPEN FLAMES IN THE VICINITY OF THE VEHICLES DURING JUMP STARTING.
- ENSURE THAT ALL AUXILIARY EQUIPMENT ON BOTH VEHICLES IS IN THE OFF POSITION (LIGHTS, ETC.).
- ENSURE THAT THE JUMPING BATTERY IS A 12 VOLT SYSTEM.
- TAKE SPECIAL CARE THAT JUMPER CABLE CLAMPS DO NOT TOUCH EACH OTHER OR ANY OTHER METAL OBJECTS EXCEPT BATTERY TERMINALS AND INTENDED METAL GROUNDING COMPONENT.
THE RECOMMENDED SAFE GROUND ON THE DISCHARGED BATTERY’S VEHICLE IS THE ENGINE CASE BOLT.

- NEVER CONNECT THE OPPOSITE END OF THE NEGATIVE CABLE TO THE DISCHARGED BATTERY’S NEGATIVE TERMINAL. A SPARK COULD RESULT, CAUSING AN EXPLOSION.
- NEVER CONNECT THE OPPOSITE END OF THE NEGATIVE CABLE NEAR THE BATTERY VENT TUBE. HYDROGEN GASSES PRESENT MAY CAUSE AN EXPLOSION FROM A RESULTING SPARK.

CAUTION
Connecting the opposite end of the negative jumper cable to or near painted, chrome plated, or polished surfaces could cause permanent charring or discoloration.
Your AMERICAN IRONHORSE vehicle’s voltage regulator is located on the front of the vehicle’s frame (Fig. #5, Letter B).

Its function is to control the electrical energy flow to the vehicle’s battery. No settings or adjustments of the voltage regulator are required after leaving the factory.

The vehicle’s alternator should be diagnosed by a professionally trained motorcycle mechanic. Vehicle electrical problems can be very difficult to diagnose and correct. Consequently, it is recommended that any such problems be dealt with by a professionally trained mechanic.

Circuit breakers are provided to protect your vehicle’s system wiring. They can be found underneath the dash cover (Fig. # 1, Letter E).
Your vehicle is provided with the following lights:
- Front headlamp
- 2 front turn signals
- 2 rear turn signals
- Rear brake light
- License plate light

The vehicle operator should frequently verify the proper operation of these lights. Replacement lamps (bulbs) should always be same as new type as indicated in the “AMERICAN IRONHORSE Consumable Table.”

**WARNING**

- USING HIGHER WATTAGE REPLACEMENT LAMPS (BULBS) THAN ORIGINAL EQUIPMENT CAN CAUSE ELECTRICAL SYSTEM PROBLEMS.
- FINGERPRINTS, OILS OR OTHER FOREIGN MATERIALS CAN DAMAGE HEAD LAMPS. ALWAYS USE CLEAN GLOVES, CLOTH OR SIMILAR PRECAUTIONS TO PREVENT SUCH DAMAGE WHEN HANDLING HEADLAMPS.

**WARNING**

- USING LOWER WATTAGE REPLACEMENT LAMPS (BULBS) THAN ORIGINAL EQUIPMENT CAN RESULT IN IMPAIRED VISIBILITY BY OPERATOR OF OTHER VEHICLES RESULTING IN POSSIBLE PHYSICAL INJURY. HEADLAMPS CONTAIN PRESSURIZED GAS. THEY MUST BE HANDLED CAREFULLY, AND HANDLER SHOULD WEAR EYE PROTECTION TO AVOID POSSIBLE INJURY.
Tappets are self-adjusting hydraulic type. These type of tappets automatically adjust length to compensate for engine expansion and keep the valve mechanism free of lash while motor is running to reduce valve wear.

The valve mechanism may be slightly noisy when the motor is cold, until the hydraulic tappets “pump-up” or completely refill with oil. If at any other point the valve mechanism becomes excessively or abnormally noisy, it may indicate that one or several of the hydraulic units are not functioning correctly.

Always check oil supply at first, as normal oil circulation through engine is necessary for hydraulic units to function properly.

If there is oil in the tank, there may be dirt or debris in the oil supply passages leading to the hydraulic units, thereby causing the units to not function properly. Inspect and clean tappet oil supply filter screen.
Several points or systems on your AMERICAN IRONHORSE motorcycle need to be lubricated or oiled at scheduled inspection and maintenance intervals or earlier if so indicated by system operation.

Some of these points are discussed in detail elsewhere in this manual. A summary is provided in this section, briefly noting those discussed in more detail elsewhere in this manual and indicating additional points or systems. (See Section 1-3 for indications of various point systems addressed in this section.)

1. Engine oil – see Section 4-3.
2. Oil filter – see Section 4-3.
3. Transmission fluid – See Section 4-4.
4. The following levers and cables should be inspected and lubricated as needed at recommended inspection and maintenance intervals or sooner if systems operation indicate.
   • Clutch control cable and lever, throttle control cable and speedometer cable
   • Front brake hand lever
5. Lubricate mechanical kickstand with white lithium grease or anti-seize. Do not over lubricate as it will contribute to possible dirt and grime buildup on the mechanism.
6. The following bearings should be repacked with fresh grease at least at 10,000 mile intervals or 12 months, whichever occurs first – steering head bearings, front and rear wheel bearings.
7. Lubricate handlebar throttle grip mechanism with new, fine grain graphite powder at least annually or sooner if operation of mechanism indicates.
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<th>Item</th>
<th>Description</th>
<th>Distributor/Manufacturer</th>
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<td>20W-50</td>
<td>Drag Specialties 934-217-216</td>
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<td>Spark Plugs</td>
<td>.040 - .045</td>
<td>NGK BPR5ES-11/Champion RN12YC</td>
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<td>Tucker Rocky 58-1318</td>
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<td>AM20 90/90 HZI</td>
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<td>Crane Dual Fire</td>
<td>Drag Specialties DS-325486</td>
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<td>Chrome</td>
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<td>Bulbs:</td>
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<td>5 3/4&quot; 7&quot;</td>
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<tr>
<td>Transmission Mount Plate</td>
<td>35 Ft/Lbs</td>
<td></td>
</tr>
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<td>Transmission to Mount Plate</td>
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<tr>
<td>Engine Mount to Frame</td>
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<td>Inner Primary Bolts</td>
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<td>Jack Shaft Bolt</td>
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<td>Bracket to Motor Mount</td>
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<tr>
<td>Bracket to Frame</td>
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<tr>
<td>Fork Stem Nut</td>
<td>80 Ft/Lbs, check fallaway and re-adjust as needed</td>
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<tr>
<td>Triple Tree Pinch Bolts</td>
<td>25 Ft/Lbs</td>
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<td>55 Ft/Lbs</td>
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<tr>
<td>Rear Axle</td>
<td>65 Ft/Lbs</td>
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<tr>
<td>Axle Pinch Bolts</td>
<td>8-10 Ft/Lbs</td>
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<tr>
<td>Spark Plugs</td>
<td>100 Inch/Lbs</td>
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<tr>
<td>Transmission Top Cover</td>
<td>8-10 Ft/Lbs</td>
<td></td>
</tr>
<tr>
<td>Transmission Door</td>
<td>(5/16) 13-16 Ft/Lbs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1/4) 8-10 Ft/Lbs</td>
<td></td>
</tr>
<tr>
<td>Component</td>
<td>Torque Specifications</td>
<td></td>
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<tr>
<td>Transmission Side Cover</td>
<td>8-10 Ft/Lbs</td>
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</tr>
<tr>
<td>Case Bolts</td>
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<tr>
<td>Head Bolts</td>
<td>8-18 Ft/Lbs 90° turn</td>
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<tr>
<td>Pinion Gear Nut</td>
<td>45 Ft/Lbs</td>
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<tr>
<td>Rocker Box</td>
<td>(5/16) 20 Ft/Lbs</td>
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<tr>
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<td>(1/4) 10 Ft/Lbs</td>
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<td>Alternator Stator Screws</td>
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<td>Lifter Blocks</td>
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<td>Relief Valve Plug</td>
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<tr>
<td>Check Valve Plug</td>
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</tbody>
</table>
If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform AMERICAN IRONHORSE MOTORCYCLE CO. at (817) 665-2000, in addition to the National Highway Traffic Safety Administration (NHTSA). If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer or AMERICAN IRONHORSE. To contact NHTSA, you may either call the Auto Safety Hotline toll free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the hotline.

AMERICAN IRONHORSE warrants that this exhaust system, at the time of sale, meets all applicable U.S. EPA Federal Noise Standards. This warranty extends to the first person who buys this exhaust system for purposes other than resale and all subsequent buyers. Warranty claims should be directed to:

AMERICAN IRONHORSE MOTORCYCLE CO.
4600 BLUE MOUND ROAD
FORT WORTH, TEXAS 76106
Tampering with noise control systems is prohibited. Federal law prohibits the following acts or causing thereof:

1. The removal or rendering inoperative by any person other than for purposes of maintenance, repair or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in the use, or
2. The use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

Among these acts presumed to constitute tampering are the acts listed below:

1. Removal of or puncturing the muffler, baffles, header pipes or any other component which conducts exhaust gasses.
2. Removal or puncturing of any part of the intake system.
3. Lack of proper maintenance.
4. Replacing any moving part of the vehicle or parts of the exhaust or intake system with parts other than those specified by the manufacturer.
WARNING
THIS PRODUCT SHOULD BE CHECKED FOR REPAIR OR REPLACEMENT IF THE MOTORCYCLE NOISE HAS INCREASED SIGNIFICANTLY THROUGH USE. OTHERWISE, THE OWNER MAY BECOME SUBJECT TO PENALTIES UNDER STATE AND LOCAL ORDINANCES.

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENTS:
The California Air Resources Board and AMERICAN IRONHORSE MOTORCYCLE COMPANY is pleased to explain the emission control system warranty on your motorcycle. In California, new motor vehicles must be designed, built and equipped to meet the State’s stringent anti-smog standards. AMERICAN IRONHORSE MOTORCYCLE COMPANY must warrant the emission control system on your motorcycle for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your motorcycle.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, catalytic converter and engine computer. Also included may be hoses, belts, connectors and other emission-related assemblies.

Where a warrantable condition exists, AMERICAN IRONHORSE MOTORCYCLE COMPANY will repair your motorcycle at no cost to you including diagnosis, parts and labor.

MANUFACTURER’S WARRANTY COVERAGE:
For 5 years or 18,641 miles (30,000 km), whichever occurs first:
1. If an emission-related part on your motorcycle is defective, the part will be repaired or replaced by AMERICAN IRONHORSE MOTORCYCLE COMPANY. This is your emission control system DEFECTS WARRANTY.
AMERICAN IRONHORSE warrants that each new AMERICAN IRONHORSE motorcycle manufactured on or after January 1978, includes as standard equipment a headlight, taillight and stoplight, and is street legal:

A. is designed, built and equipped so as to conform at the time of initial retail purchase with all applicable regulations of the United States Environmental Protection Agency, and the California Air Resources Board; and

B. is free from defects in material and workmanship which cause such motorcycle to fail to conform with applicable regulations of the United States Environmental Protection Agency or the California Air Resources Board for a period of use, depending on the engine displacement, of 12,000 kilometers (7,456 miles), if the motorcycle’s engine displacement is less than 170 cubic centimeters; of 18,000 kilometers (11,185 miles), if the motorcycle’s engine displacement is equal to or greater than 170 cubic centimeters but less than 280 centimeters; or of 30,000 kilometers (18,641 miles), if the motorcycle’s engine displacement is 280 cubic centimeters or greater; or five (5) years from the date of initial retail delivery, whichever occurs first.
I. COVERAGE

Warranty defects shall be remedied during customary business hours at any authorized AMERICAN IRONHORSE motorcycle dealer located within the United States of America in compliance with the Clean Air Act and applicable regulations of the United States Environmental Protection Agency and the California Air Resources Board. Any part or parts replaced under this warranty shall become the property of AMERICAN IRONHORSE.

In the State of California only, emission related warranted parts are specifically defined by the state's Emission Warranty Parts List. These warranted parts are: carburetor and internal parts; intake manifold; fuel injection system; spark advance mechanism; crankcase breather; air cutoff valves; fuel tank cap for evaporative emission controlled vehicles; pressure control valve; fuel/vapor separator; canister; igniters; breaker governors; ignition coils; ignition wires; ignition points; condensers; spark plugs if failure occurs prior to the first scheduled replacement; and hoses, clamps fittings and tubing used directly in these parts. Since emission related parts may vary from model to model, certain models may not contain all of these parts and certain models may contain functionally equivalent parts.

In the State of California only, Emission Control System emergency repairs, as provided for in the California Administrative Code, may be performed by other than an authorized AMERICAN IRONHORSE dealer. An emergency situation occurs when an authorized AMERICAN IRONHORSE dealer is not reasonably available, a part is not available within 30 days, or a repair is not complete within 30 days. Any replacement part can be used in an emergency repair. AMERICAN IRONHORSE will reimburse the owner for the expenses, including diagnosis, not to exceed AMERICAN IRONHORSE's suggested retail price for all warranted parts replaced and labor charges based on AMERICAN IRONHORSE's recommended time allowance for the warranty repair and the geographically appropriate hourly labor rate. The owner may be required to keep receipts and failed parts in order to receive compensation.
II. LIMITATIONS

This Emission Control System warranty shall not cover any of the following:

A. Repair or replacement required as a result of:
   1. accident,
   2. misuse,
   3. lack of required maintenance,
   4. repairs improperly performed or replacements improperly installed,
   5. use of replacement parts or accessories not conforming to AMERICAN IRONHORSE specifications which adversely effect performance, and/or
   6. use in competitive racing or related events.

B. Inspections, replacement of parts and other services and adjustments required for required maintenance.

C. Any motorcycle on which the odometer mileage has been changed so that actual mileage cannot be readily determined.
III. LIMITED LIABILITY

A. The liability of AMERICAN IRONHORSE under this Emission Control Systems Warranty is limited solely to the remedying of defects in material or workmanship by an authorized AMERICAN IRONHORSE motorcycle dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the motorcycle or transportation of the motorcycle to or from the AMERICAN IRONHORSE dealer. AMERICAN IRONHORSE SHALL NOT BE LIABLE FOR ANY OTHER EXPENSES, LOSS OR DAMAGE, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

B. No express emission control systems warranty is given by AMERICAN IRONHORSE except as specifically set forth herein. Any emission control system warranty implied by law, including any warranty of merchantability or fitness for a particular purpose, is limited to the express emission control systems warranty terms stated in this warranty. The foregoing statements of warranty are exclusive and in lieu of all other remedies. Some states do not allow limitations on how long an implied warranty lasts so the above limitations may not apply to you.

C. No dealer is authorized to modify this AMERICAN IRONHORSE Limited Emission Control System Warranty.

IV. LEGAL RIGHTS

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
V. THIS WARRANTY IS IN ADDITION TO THE AMERICAN IRONHORSE LIMITED MOTORCYCLE WARRANTY.

VI. ADDITIONAL INFORMATION

Any replacement part that is equivalent in performance and durability may be used in the performance of any maintenance or repairs. However, AMERICAN IRONHORSE is not liable for these parts. The owner is responsible for the performance of all required maintenance. Such maintenance may be performed at a service establishment or by any individual. The warranty period begins on the date the motorcycle is delivered to an ultimate purchaser.
LIMITED WARRANTY

AMERICAN IRONHORSE Motorcycle Co. (AMERICAN IRONHORSE) warrants to the initial purchaser and any subsequent authorized transferees that AMERICAN IRONHORSE will repair or replace, without charge, any parts found to be defective in factory materials or workmanship under normal use under the following terms and conditions:

1. DURATION
   This limited warranty is valid for a period of 36 months/36,000 miles.

2. INITIAL QUALIFICATION
   To qualify for the limited warranty, the purchaser (and the selling Dealer if sold through an authorized dealer) must complete the Warranty Registration Form and return it to AMERICAN IRONHORSE within 5 days after delivery.

3. TRANSFERENCE
   Any unexpired portion of this limited warranty may be transferred to a purchaser of said motorcycle upon the receipt of written authorization. Such request must be made in writing by registered mail or facsimile transmission. Upon compliance with certain information and vehicle inspection requirements, AMERICAN IRONHORSE will transfer the remaining portion of the unexpired limited warranty to the transferee.
4. **EXCLUSIONS**

   The following circumstances constitute exclusions from the limited warranty:
   
   **a.** Operation of the vehicle without performance of AMERICAN IRONHORSE prescribed periodic maintenance.
   
   **b.** Abusive operation of the vehicle, “off-the-road” operation, racing or similar competitive use.
   
   **c.** Alteration to the vehicle outside of original factory specifications or improper storage.
   
   **d.** Removal or tampering with vehicle odometer.
   
   **e.** Abusive use of vehicle by overreving due to missed gear change.

5. **LIMITATIONS**

   This limited warranty does not apply to:
   
   **a.** Deterioration of paint, chrome, seats, trim or other parts and accessories due to normal wear and tear.
   
   **b.** Parts and labor for any normal recommended maintenance items including but not limited to the following: battery maintenance, oil and oil filter change, spark plugs, lubrication, cleansing of fuel system and adjustments to engine, brakes, clutch, belt and chains.
In order to obtain service under this limited warranty, return your vehicle at your expense to the selling dealer. Should a location prove difficult due to relocation, touring, or similar situations, contact AMERICAN IRONHORSE for the name of the nearest authorized provider of service under this limited warranty. Under no circumstance will AMERICAN IRONHORSE accept responsibility for any expenses incurred by anyone other than the selling dealer or other authorized service provider in carrying out warranty activities under this agreement. Such warranty activities through the selling dealer and other authorized service providers must receive prior written approval from AMERICAN IRONHORSE. Such warranty activities will be provided by authorized providers during normal business hours and scheduled by the provider consistent with existing workloads and parts availability.

**IMPORTANT NOTICE**

AMERICAN IRONHORSE DEALERS ARE INDEPENDENTLY OWNED AND OPERATED AND AS SUCH AMERICAN IRONHORSE IS NOT RESPONSIBLE IN ANY WAY FOR ANY PARTS, LABOR, ALTERATIONS OR MODIFICATIONS MADE TO SAID MOTORCYCLE.

THIS WRITTEN LIMITED WARRANTY IS THE TOTAL WARRANTY PROVIDED BY AMERICAN IRONHORSE. NO OTHER EXPRESS OR IMPLIED WARRANTIES ARE VALID.

AMERICAN IRONHORSE SHALL NOT BE LIABLE FOR ANY DAMAGES CLAIMED BY PURCHASER DUE TO LOSS OF USE, COMMERCIAL LOSS, OR ANY OTHER CLAIMS OF LOSS DUE TO NON-NORMAL FUNCTIONING OF SAID MOTORCYCLE.
FIGURE 1

A. Odometer
B. Ignition Switch
C. Speedometer
D. Indicator Lights
E. Dash
FIGURE 2

- **G** Rear View Mirror
- **D** Start Switch
- **C** Engine Start/Stop Switch
- **F** Right Turn Signal Switch
- **E** Front Brake Lever
- **A** Engine Throttle Control Grip
- **B** Engine Throttle Tension Adjuster
FIGURE 3

A Choke

B Oil Filter
FIGURE 4

- **A** Clutch Lever
- **B** Rear View Mirror
- **C** Headlight Hi/Lo Switch
- **D** Horn Switch
- **E** Left Side Turn Signal Switch
FIGURE 6

A Front Brake Rotor/Caliper

B Shocks

C Kick Stand
FIGURE 7

- **A**: Rear Brake Pedal
- **B**: Rear Brake Rotor/Caliper
- **C**: Front Turn Signal
- **D**: Rear Turn Signal
FIGURE 8

- **A**: Positive Terminal
- **B**: Negative Terminal
- **C**: Engine Oil Dipstick
FIGURE 9

Transmission Drain Plug

Transmission Dipstick
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<th>Date</th>
<th>Mileage</th>
<th>Owner's Signature</th>
<th>VIN</th>
<th>Date</th>
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**500 MILE (800 km) MAINTENANCE**

You are authorized to perform the applicable maintenance and lubrication services. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

**OWNER RECORD**

**DEALER RECORD**
You are authorized to perform the applicable maintenance and lubrication services. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Date

Mileage

Owner's Signature

VIN

Date ___________  Mileage___________

Dealer (or other) Signature

OWNER RECORD

DEALER RECORD
MAINTENANCE RECORDS

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<td><strong>Dealer (or other) Signature</strong></td>
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**OWNER RECORD**

**DEALER RECORD**

---

5000 MILE (8000 km) MAINTENANCE

You are authorized to perform the applicable maintenance and lubrication services. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

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**DEALER RECORD**

** OWNER RECORD **
MAINTENANCE RECORDS

7500 MILE
(12000 km)
MAINTENANCE

You are authorized to perform the applicable maintenance and lubrication services. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.

Date

Mileage

Owner's Signature

VIN

Date ______________  Mileage_____________

Dealer (or other) Signature

OWNER RECORD

DEALER RECORD
**10000 MILE**  
(16000 km)  
**MAINTENANCE**

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**You are authorized to perform the applicable maintenance and lubrication services. These services are to be performed at your regular rates and paid for by me, the owner. I also authorize you to road test this motorcycle for proper operation.**

---

**Dealer (or other) Signature**

**OWNER RECORD**

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**DEALER RECORD**
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