A MESSAGE FROM THE PEOPLE WHO BUILT YOUR ARGO

Thank you for selecting an ARGO amphibious, off-road utility vehicle!

Ontario Drive & Gear Limited has been building ARGO vehicles since 1967. By listening carefully to our customers and responding to their needs, we have been constantly improving the ARGO and will continue to do so.

Over thirty thousand ARGO vehicles have provided reliable service all over the world. From Britain to the Far East, Alaska to the Antarctic, and from the tropical forests of South America to the deserts of Saudi Arabia. We are proud to provide you with a vehicle that represents the ultimate in amphibious, all-terrain transportation.

Your safety and the safety of all ARGO users is of the greatest concern to us. You will find numerous safety statements in this manual. Please read and follow them carefully. Always be safety conscious when you operate your ARGO and remember it is a motorized vehicle.

The ARGO is easy to drive and you will soon be tempted to take on new challenges. Please take the time to develop your driving skills before doing so. Observe the recommendations outlined in this Operator’s Manual and remember; some things are just impossible, even with an ARGO.

WELCOME TO THE WORLD WIDE ARGO FAMILY!

673-04-1 Argo Service Manual
673-11 Argo Service Manual - Avenger, Frontier & HDi

Ontario Drive & Gear has produced resources which provide the Argo owner with step-by-step instructions on how to perform general service procedures on vehicles produced since 1992. Everything from removal and replacement of brake pads to rebuilding the transmission. It’s all there. Removal and replacement of engines is included, however, engine overhaul is not. A separate overhaul manual is available for each engine from your Argo dealer. Order these materials from your selling dealer.
NOTE

Read this manual before you operate your ARGO. It contains safe operating instructions and warns the user about potential hazards that can result in personal injury.

Warnings are identified in the text by the following symbol:

⚠️ WARNING

Warning text warns the user about potential hazards that can result in personal injury or death.

Cautions are identified in the text by the following symbol:

⚠️ CAUTION

Caution text contains cautions that can prevent damage to the vehicle.

This manual is based on the latest product information available at the time of printing. Ontario Drive & Gear Limited reserves the right to make changes at any time and without obligation.

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Une version française du manuel d’opération est disponible sous le numéro suivant 671-21FR.

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PREFACE

This manual describes the controls, operation and basic maintenance procedures for all HDi, HD, AVENGER and FRONTIER models of the ARGO from date of printing. Please take the time to read this manual carefully, for your safety and that of others. By following these instructions, you will ensure extended, trouble free operation of your vehicle.

For maintenance and adjustment of the engine, refer to the engine manufacturer’s operation and maintenance manual included in your vehicle’s information package.

Before you drive your ARGO, make sure you understand how to use all controls, particularly the brakes and steering system. Learn how to drive your vehicle in an open level area, away from buildings, trees and other obstacles, until you are completely familiar with its operating characteristics. Drive very slowly until your driving skills improve, and drive with caution and consideration at all times. The risk of accident or injury is greatest during the first weeks of use. Take special care during this period. ALWAYS RESPECT OUR ENVIRONMENT.

CAUTION TO THE ARGO OWNER/OPERATOR
• Make sure everyone who drives this vehicle receives proper operating instructions and reads this Operator’s Manual.
• No one under the age of 16 should be allowed to operate the ARGO. Children under the age of 16 may not have the skills, abilities or judgement needed to operate the ARGO safely and may be involved in an accident causing severe injury or death.
• Never allow anyone under the influence of alcohol or any other intoxicating substance to drive or ride in the vehicle.
• Wear an approved safety helmet and eye protection when driving or riding in the vehicle.
• Special operating and safety procedures described in this manual must be observed before and during water operation as outlined in Section 5.
• When operating your vehicle for extended periods of time, we recommend the use of approved hearing protection.
• Equip your vehicle with a fire extinguisher and a first aid kit.
• Equip your vehicle with basic tools for emergency repairs.
• Before starting your engine, check for spilled gasoline and wipe any up immediately. Gasoline is a potentially explosive substance that can cause serious personal injury when ignited.
• Keep the floor pans secured in place at all times. Fingers, feet, animal tails or paws can be injured in the drive components beneath the floor pans. The floor pans also help keep damaging debris out of the drive components.
• Make sure all passengers remain seated while the vehicle is in motion. Advise your passengers to hold onto the vehicle at all times.
• Never overload your vehicle. Trying to steer an overloaded vehicle can overheat the brakes. This will lead to brake fade which means loss of steering control and the ability to stop the vehicle. Overloading your vehicle can lead to premature brake system failures and costly damage to drive chains, axles or bearings. Follow the recommended load capacity for your vehicle listed in Section 1.
• Do not drive the vehicle at high speeds over unfamiliar or rough terrain. Personal injury or vehicle damage may result.
• Certain terrain and steep hills cannot be traversed safely with the ARGO or any other vehicle. Do not attempt to drive over terrain that is questionable.
• Avoid driving your vehicle on asphalt or concrete roadways when possible. When the vehicle turns, its tires skid on the driving surface. Asphalt or concrete causes extensive tire wear.
• Use common sense at all times when driving your vehicle.
• The ARGO engine hood is designed to stay fastened in place while the vehicle is being driven. If the ARGO is transported by truck or trailer, the hood should be removed and carried in the transport vehicle or secured in place on the ARGO with rope or tie down straps. Wind or turbulence at road speeds could result in the loss of the hood.

IMPORTANT
Operate this vehicle with safety constantly in mind. Off-road vehicles face unpredictable and often hazardous terrain conditions. It is ultimately the operator’s responsibility to handle the vehicle safely within its limitations and to decide when and where to travel.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 GENERAL INFORMATION</td>
<td></td>
</tr>
<tr>
<td>1.1 AMPHIBIOUS OPERATION</td>
<td>1</td>
</tr>
<tr>
<td>1.2 MAINTENANCE PROCEDURES</td>
<td>1</td>
</tr>
<tr>
<td>1.3 WIND CHILL FACTOR</td>
<td>1</td>
</tr>
<tr>
<td>1.4 LEGEND FOR OPERATOR’S MANUAL</td>
<td>1</td>
</tr>
<tr>
<td>1.4.1 Argo Vehicle Capacity</td>
<td>3</td>
</tr>
<tr>
<td>1.5 REAR SEATS - 8 WHEEL MODELS</td>
<td>3</td>
</tr>
<tr>
<td>1.6 FRONTIER VEHICLE MATRIX</td>
<td>4</td>
</tr>
<tr>
<td>1.7 AVENGER VEHICLE MATRIX</td>
<td>6</td>
</tr>
<tr>
<td>1.8 IDENTIFICATION AND LOCATION OF CONTROLS</td>
<td>8</td>
</tr>
<tr>
<td>1.9 INFORMATION LABELS</td>
<td>10</td>
</tr>
<tr>
<td>2.0 GENERAL OPERATING INSTRUCTIONS</td>
<td></td>
</tr>
<tr>
<td>2.1 NEW VEHICLE “BREAK-IN” PROCEDURE</td>
<td>11</td>
</tr>
<tr>
<td>2.2 PRE-OPERATION CHECKS</td>
<td>11</td>
</tr>
<tr>
<td>2.3 CARRYING PASSENGERS AND CARGO</td>
<td>11</td>
</tr>
<tr>
<td>2.4 OPERATORS WITH DISABILITIES</td>
<td>12</td>
</tr>
<tr>
<td>2.5 FUELING THE VEHICLE</td>
<td>13</td>
</tr>
<tr>
<td>2.6 VENTED FUEL SYSTEM - ALL MODELS</td>
<td>13</td>
</tr>
<tr>
<td>2.7 INSTRUMENT CLUSTER</td>
<td>14</td>
</tr>
<tr>
<td>3.0 OPERATING INSTRUCTIONS</td>
<td></td>
</tr>
<tr>
<td>3.1 BRAKES AND STEERING</td>
<td>15</td>
</tr>
<tr>
<td>3.2 EMERGENCY/PARKING BRAKE SYSTEM</td>
<td>15</td>
</tr>
<tr>
<td>3.3 THRUST CONTROL</td>
<td>15</td>
</tr>
<tr>
<td>3.4 STARTING PROCEDURE</td>
<td>15</td>
</tr>
<tr>
<td>3.5 NEUTRAL START SWITCH</td>
<td>16</td>
</tr>
<tr>
<td>3.6 PRIMING PROCEDURE</td>
<td>16</td>
</tr>
<tr>
<td>3.7 STOPPING THE ENGINE</td>
<td>16</td>
</tr>
<tr>
<td>3.8 SELECTING AND CHANGING TRANSMISSION GEARS</td>
<td>16</td>
</tr>
<tr>
<td>3.9 HEADLIGHTS</td>
<td>17</td>
</tr>
<tr>
<td>4.0 DRIVING PROCEDURES</td>
<td></td>
</tr>
<tr>
<td>4.1 DRIVING STRAIGHT AHEAD</td>
<td>18</td>
</tr>
<tr>
<td>4.2 STOPPING THE VEHICLE</td>
<td>18</td>
</tr>
<tr>
<td>4.3 TURNING THE VEHICLE</td>
<td>18</td>
</tr>
<tr>
<td>4.4 BACKING THE VEHICLE</td>
<td>18</td>
</tr>
<tr>
<td>4.5 ARGO OPERATING INSTRUCTIONS FOR VEHICLES WITH ADMIRAL TRANS</td>
<td>19</td>
</tr>
<tr>
<td>5.0 DRIVING PROCEDURES DURING UNUSUAL CONDITIONS</td>
<td></td>
</tr>
<tr>
<td>5.1 REMOTE AREA USE</td>
<td>20</td>
</tr>
<tr>
<td>5.2 ANGLE OF OPERATION</td>
<td>20</td>
</tr>
<tr>
<td>5.3 UPHILL OPERATION</td>
<td>20</td>
</tr>
<tr>
<td>5.4 DOWNSHILL OPERATION</td>
<td>20</td>
</tr>
<tr>
<td>5.5 SIDE SLOPE OPERATION</td>
<td>21</td>
</tr>
<tr>
<td>5.6 AMPHIBIOUS OPERATION - GENERAL</td>
<td>21</td>
</tr>
<tr>
<td>5.6.1 Entering Water</td>
<td>22</td>
</tr>
<tr>
<td>5.6.2 Driving Procedures in Water</td>
<td>22</td>
</tr>
<tr>
<td>5.6.3 Driving Out of Water</td>
<td>23</td>
</tr>
<tr>
<td>5.6.4 Outboard Motor Bracket</td>
<td>23</td>
</tr>
<tr>
<td>SECTION</td>
<td>PAGE</td>
</tr>
<tr>
<td>---------</td>
<td>------</td>
</tr>
<tr>
<td>5.7 WINTER OPERATION</td>
<td>23</td>
</tr>
<tr>
<td>5.7.1 Use on Ice Covered Bodies of Water</td>
<td>23</td>
</tr>
<tr>
<td>6.0 OIL, FILTER AND LUBRICATION INFORMATION</td>
<td>24</td>
</tr>
<tr>
<td>6.1 ENGINE OIL INFORMATION</td>
<td>24</td>
</tr>
<tr>
<td>6.1.1 Checking the Engine Oil Level</td>
<td>24</td>
</tr>
<tr>
<td>6.1.2 Recommended Engine Oil</td>
<td>24</td>
</tr>
<tr>
<td>6.1.3 Changing Engine Oil</td>
<td>24</td>
</tr>
<tr>
<td>Draining the Engine Oil</td>
<td>25</td>
</tr>
<tr>
<td>Refilling the Engine</td>
<td>25</td>
</tr>
<tr>
<td>6.2 TRANSMISSION OIL INFORMATION</td>
<td>25</td>
</tr>
<tr>
<td>6.2.1 Checking the Transmission Oil Level</td>
<td>25</td>
</tr>
<tr>
<td>6.2.2 Changing the Transmission Oil</td>
<td>26</td>
</tr>
<tr>
<td>6.2.3 Refilling the Transmission</td>
<td>26</td>
</tr>
<tr>
<td>6.3 FILTER INFORMATION</td>
<td>26</td>
</tr>
<tr>
<td>6.3.1 Air Filter</td>
<td>26</td>
</tr>
<tr>
<td>6.3.2 Fuel Filter</td>
<td>27</td>
</tr>
<tr>
<td>6.3.3 Oil Filter</td>
<td>27</td>
</tr>
<tr>
<td>6.4 LUBRICATION INFORMATION</td>
<td>27</td>
</tr>
<tr>
<td>6.4.1 General</td>
<td>27</td>
</tr>
<tr>
<td>6.4.2 Clutch Lubrication</td>
<td>27</td>
</tr>
<tr>
<td>6.4.3 Drive Chain Lubrication</td>
<td>27</td>
</tr>
<tr>
<td>6.4.4 Automatic Chain Oiler System</td>
<td>28</td>
</tr>
<tr>
<td>6.4.5 Idler Chain Lubrication</td>
<td>28</td>
</tr>
<tr>
<td>6.4.6 Outer Axle Bearing Lubrication</td>
<td>29</td>
</tr>
<tr>
<td>6.4.7 Idler Shaft Bearing Lubrication</td>
<td>29</td>
</tr>
<tr>
<td>6.4.8 Output Shaft Lubrication</td>
<td>30</td>
</tr>
<tr>
<td>6.4.9 Output Shaft Lubrication (2012 Models and on)</td>
<td>30</td>
</tr>
<tr>
<td>6.4.10 Inner Axle Bearing Lubrication</td>
<td>30</td>
</tr>
<tr>
<td>7.0 MAINTENANCE INFORMATION</td>
<td>31</td>
</tr>
<tr>
<td>7.1 ELECTRICAL SYSTEM</td>
<td>31</td>
</tr>
<tr>
<td>7.1.1 GENERAL</td>
<td>31</td>
</tr>
<tr>
<td>7.1.2 BATTERY</td>
<td>31</td>
</tr>
<tr>
<td>Checking Fluid Level</td>
<td>31</td>
</tr>
<tr>
<td>Charging the Battery</td>
<td>31</td>
</tr>
<tr>
<td>Cleaning the Battery Terminals and Cable Connections</td>
<td>31</td>
</tr>
<tr>
<td>Cleaning the Battery</td>
<td>32</td>
</tr>
<tr>
<td>7.1.3 ELECTRICAL SYSTEM FUSES</td>
<td>32</td>
</tr>
<tr>
<td>7.1.4 SPARK PLUGS</td>
<td>32</td>
</tr>
<tr>
<td>7.1.5 SPARK ARRESTER</td>
<td>32</td>
</tr>
<tr>
<td>7.2 DRIVE SYSTEM &amp; TIRES</td>
<td>32</td>
</tr>
<tr>
<td>7.2.1 DRIVE BELT</td>
<td>32</td>
</tr>
<tr>
<td>Drive Belt Adjustment</td>
<td>33</td>
</tr>
<tr>
<td>Drive Belt Removal</td>
<td>33</td>
</tr>
<tr>
<td>Drive Belt Installation</td>
<td>34</td>
</tr>
<tr>
<td>7.2.2 CLUTCH MAINTENANCE</td>
<td>34</td>
</tr>
<tr>
<td>Clutch Inspection</td>
<td>34</td>
</tr>
</tbody>
</table>
TABLE OF CONTENTS

SECTION PAGE

7.2.3 DRIVE CHAINS ................................................................. 34
  Drive Chain Removal ...................................................... 34
  Drive Chain Installation ............................................... 35

7.2.4 DRIVE CHAIN TAKE-UP SYSTEM ..................................... 35
  Replacement of Slider Blocks ......................................... 36

7.2.5 IDLER CHAIN ................................................................. 37
  Idler Chain Adjustment .................................................. 37
  Removal of Idler Chains ................................................ 37
  Installation of Idler Chains ............................................. 38

7.2.6 TIRE INFLATION ............................................................. 38

7.2.7 TIRE REPAIR AND REPLACEMENT ................................. 38

7.2.8 AXLE BEARING MOUNTING ........................................... 40

7.3 HYDRAULIC BRAKES ......................................................... 40
  7.3.1 GENERAL ................................................................. 40

7.3.2 BRAKE FLUID LEVEL .................................................... 40

7.3.3 CHANGING BRAKE FLUID .............................................. 41

7.3.4 HYDRAULIC BRAKE PAD INSPECTION ................................. 41
  Firewall Removal .......................................................... 41
  Brake Pad Inspection Procedure ...................................... 41
  Re-installation of Brake Pads .......................................... 41
  Handbrake Inspection ..................................................... 42
  Brake Pad Inspection Procedure ...................................... 42
  Re-installation of Firewall .............................................. 42
  Service Brake Bedding in Procedure ................................. 43

7.3.5 HAND BRAKE ADJUSTMENT ........................................... 43

7.3.6 EMERGENCY/PARKING BRAKE ADJUSTMENT ......................... 43

7.3.7 BRAKE PLUNGER ADJUSTMENT ....................................... 45

7.3.8 BRAKE COOLING SYSTEM ............................................... 46

7.3.9 ENGINE COOLING & EXHAUST SYSTEM ............................... 46

7.4 DAILY CHECKLIST ............................................................. 47

7.5 20/20 SERVICE CHART ..................................................... 48
  100/20 SERVICE CHART .................................................. 48

7.6 MAINTENANCE SCHEDULE ................................................. 49

8.0 TROUBLESHOOTING ........................................................... 50

9.0 CLEANING AND STORAGE .................................................. 52
  9.1 CLEANING THE VEHICLE ............................................... 52

9.2 STORING THE VEHICLE ................................................. 52
  Cleaning the Vehicle .................................................... 52
  Drain the Fuel System .................................................... 52
  Prepare the Battery for Storage ....................................... 52
  Protect the Electrical System ......................................... 52
  Raise the Vehicle .......................................................... 52
  Preparing the Engine for Storage ..................................... 52

10.0 POTENTIAL HAZARDS ...................................................... 53
# TABLE OF CONTENTS

## 11.0 ACCESSORY INFORMATION

<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.1 GENERAL</td>
<td>57</td>
</tr>
<tr>
<td>11.2 CARGO TIE-DOWNS (Part No. 614-06)</td>
<td>57</td>
</tr>
<tr>
<td>11.3 ARGO TRACK SYSTEMS (Standard Track and Super Track)</td>
<td>57</td>
</tr>
<tr>
<td>11.3.1 Assembly Instructions</td>
<td>57</td>
</tr>
<tr>
<td>11.3.2 Installing the Axle Extension (Super Track &amp; Rubber Track)</td>
<td>58</td>
</tr>
<tr>
<td>11.3.3 Standard and Super Track Installation</td>
<td>60</td>
</tr>
<tr>
<td>11.3.4 Removal of Standard and Super Tracks</td>
<td>61</td>
</tr>
<tr>
<td>11.3.5 Operating Precautions (All Track Systems)</td>
<td>61</td>
</tr>
<tr>
<td>11.3.6 Standard Tracks</td>
<td>61</td>
</tr>
<tr>
<td>11.3.7 Super Tracks</td>
<td>61</td>
</tr>
<tr>
<td>11.3.8 Rubber Tracks</td>
<td>61</td>
</tr>
<tr>
<td>11.3.9 Installation Instructions (625-50 &amp; 825-50-1 Rubber Track Systems)</td>
<td>61</td>
</tr>
<tr>
<td>11.3.10 Removal of 625-50 &amp; 825-50-1 Argo Rubber Track Systems</td>
<td>63</td>
</tr>
<tr>
<td>11.4 ICE CLEAT KIT (Part Nos. 625-20, 825-20 &amp; 825-21)</td>
<td>63</td>
</tr>
<tr>
<td>11.5 OUTBOARD MOTOR BRACKET - SIDE MOUNT (Part No. 617-09 &amp; 617-10)</td>
<td>63</td>
</tr>
<tr>
<td>11.6 ARGO STORAGE COVERS (Part Nos. 621-21; 821-20 &amp; 821-40)</td>
<td>64</td>
</tr>
<tr>
<td>11.7 POWER WINCH (Part Nos. 622-105 &amp; 622-110)</td>
<td>64</td>
</tr>
<tr>
<td>11.7.1 Rules for Safe Operation</td>
<td>64</td>
</tr>
<tr>
<td>11.7.2 Tips for Extending the Life of Your Winch</td>
<td>66</td>
</tr>
<tr>
<td>11.8 REAR MUD FLAP ACCESSORY (Part No. 625-10)</td>
<td>66</td>
</tr>
<tr>
<td>11.9 BILGE PUMP ACCESSORY (Part No. 638-30)</td>
<td>66</td>
</tr>
<tr>
<td>11.10 HANDRAIL ACCESSORY (Part No. 639-26; 839-30 &amp; 839-35)</td>
<td>66</td>
</tr>
<tr>
<td>11.11 TOW HOOK ACCESSORY (Part No. 642-00)</td>
<td>66</td>
</tr>
<tr>
<td>11.12 WINDSHIELD (Part No. 648-79 &amp; 648-80)</td>
<td>67</td>
</tr>
<tr>
<td>11.13 CONVERTIBLE TOP (Part Nos. 649-51; 849-40 &amp; 849-45 &amp; 849-51)</td>
<td>67</td>
</tr>
<tr>
<td>11.14 ALTERNATOR ACCESSORY for Avenger (Part No. 850-54)</td>
<td>68</td>
</tr>
<tr>
<td>11.15 SNOW PLOW ACCESSORY (Part No. 657-21)</td>
<td>68</td>
</tr>
<tr>
<td>11.16 AMPHIBIOUS TRAILER (4-Wheel &amp; 8-Wheel)</td>
<td>68</td>
</tr>
<tr>
<td>11.16.1 Operating Precautions</td>
<td>68</td>
</tr>
<tr>
<td>11.17 HEATER ACCESSORY - Avenger (Part No. 848-32)</td>
<td>69</td>
</tr>
<tr>
<td>11.18 ROLL OVER PROTECTIVE STRUCTURES (Part Nos. 648-47; 849-90-2 &amp; 849-90-4)</td>
<td>69</td>
</tr>
<tr>
<td>11.19 REAR BENCH SEAT (Part No. 849-80)</td>
<td>70</td>
</tr>
<tr>
<td>11.20 ROLL BAR ACCESSORY (Part No. 648-15)</td>
<td>70</td>
</tr>
<tr>
<td>11.21 BRUSHGUARD KIT (Part No. 642-20 &amp; 642-40)</td>
<td>70</td>
</tr>
</tbody>
</table>
SECTION 1
GENERAL INFORMATION

1.1 AMPHIBIOUS OPERATION
All models of the ARGO are amphibious and capable of traversing calm water. Special operating procedures and safety precautions must be observed before entering the water and during amphibious operation. Do not drive your vehicle into water until you have read Section 5.6 Amphibious Operation. Operators with disabilities need to take certain precautions in the interest of their own safety. Refer to Section 2.4 of this manual for more details.

1.2 MAINTENANCE PROCEDURES
Maintenance procedures described in this manual can be carried out by the operator. These procedures include:

1. checking fluid levels
2. changing the engine and transmission oil
3. cleaning and replacing filters
4. preventative maintenance
5. inspections, adjustments, repairs and trouble-shooting

If you perform your own maintenance, carefully follow the lubrication and preventative maintenance schedule (Section 7.5). By following this schedule, you will receive trouble-free, long-term service from your vehicle. The following comprehensive ARGO service information is available:

- 673-04-1 Argo Service Manual - Complete

Your Argo dealer will perform regular maintenance and lubrication for a reasonable service charge.

The trouble-shooting chart (Section 8) contains information for locating and correcting mechanical problems. In many cases, potential problems can be identified by unusual noises, sluggishness or vibration, before they result in a breakdown. Refer to the chart to identify these symptoms. Take immediate corrective action or take the vehicle to an Argo dealer for service.

This manual does not provide detailed maintenance or servicing information for the engine. Refer to the engine manufacturer’s manual (supplied with each Argo) for important warranty, service and operating information.

If the engine requires servicing, take the vehicle to an authorized engine service outlet.

1.3 WIND CHILL FACTOR
Why does it feel much colder outdoors on a windy day than when there’s no wind, especially in winter?

The cooling effect of the wind makes it feel that it’s colder than it really is. This combined effect of wind and low temperature is known as the “wind chill factor”.

Argo operators should be aware of the wind chill factor. Dress warmly and make sure exposed skin is protected. Pay particular attention that young passengers are properly “bundled up” with their hands and faces well protected.

<table>
<thead>
<tr>
<th>WIND CHILL</th>
<th>Wind Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>km/h</td>
<td>8 16 24 32 40 48 56 64</td>
</tr>
<tr>
<td>Actual Temp (°C)</td>
<td>Gradually Increasing</td>
</tr>
<tr>
<td>-2</td>
<td>-8</td>
</tr>
<tr>
<td>-5</td>
<td>-7</td>
</tr>
<tr>
<td>-10</td>
<td>-12</td>
</tr>
<tr>
<td>-30</td>
<td>-33</td>
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<td>-40</td>
<td>-44</td>
</tr>
<tr>
<td>-45</td>
<td>-49</td>
</tr>
</tbody>
</table>

1.4 LEGEND FOR OPERATOR'S MANUAL
Below are some icons you will find throughout this manual. These icons will indicate that the information is relevant only for vehicles with that feature.

- ADM: Admiral Transmission (34-200 configuration)
- CLA: Classic Transmission (34-100 configuration)
- AVG: Avenger Model Family
- FRN: Frontier Model Family
- Liquid Cooled
- Air Cooled
# SECTION 1
## GENERAL INFORMATION

**Vehicle Models**

Argo manufactures and produces several models. They are listed in the below table, with their corresponding transmission, model family, and wheel configuration.

<table>
<thead>
<tr>
<th>Vehicle</th>
<th>Model Family</th>
<th>Transmission Option</th>
<th>Engine Type</th>
<th>PIN Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frontier 6x6</td>
<td>FRN</td>
<td>CLA</td>
<td></td>
<td>M</td>
</tr>
<tr>
<td>Frontier 6x6 S</td>
<td>FRN</td>
<td>CLA</td>
<td></td>
<td>M</td>
</tr>
<tr>
<td>6x6 Scout</td>
<td>FRN</td>
<td>CLA</td>
<td></td>
<td>M</td>
</tr>
<tr>
<td>Frontier 6x6 ST</td>
<td>FRN</td>
<td>ADM</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>6x6 Scout ST</td>
<td>FRN</td>
<td>ADM</td>
<td></td>
<td>D</td>
</tr>
<tr>
<td>Frontier 8x8 S</td>
<td>FRN</td>
<td>CLA</td>
<td></td>
<td>R</td>
</tr>
<tr>
<td>8x8 Scout S</td>
<td>FRN</td>
<td>CLA</td>
<td></td>
<td>R</td>
</tr>
<tr>
<td>8x8 Responder S</td>
<td>FRN</td>
<td>CLA</td>
<td></td>
<td>R</td>
</tr>
<tr>
<td>Avenger 8x8 S</td>
<td>AVG</td>
<td>CLA</td>
<td></td>
<td>H</td>
</tr>
<tr>
<td>Avenger 8x8 ST</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Avenger 8x8 STR</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Avenger 8x8 STX</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>Avenger 8x8 LX</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>8x8 Hunt Master</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>8x8 Hunt Master R</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>8x8 Hunt Master Z</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>8x8 Hunt Master X</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>8x8 Hunt Master ZX</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>8x8 Responder</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
<tr>
<td>8x8 Responder X</td>
<td>AVG</td>
<td>ADM</td>
<td></td>
<td>P</td>
</tr>
</tbody>
</table>
SECTION 1
GENERAL INFORMATION

4 Wheel Trailer
Load Capacity: 270 kg (600 lbs.)
Trailer Weight: 181 kg (400 lbs.) with 25" tires, 156 kg (345 lbs.) with 24" tires

8 Wheel Trailer
Load Capacity: 590 kg (1300 lbs.) with 25" tires, 635 kg (1405 lbs.) with 24" tires*
Trailer Weight: 318 kg (700 lbs.) with 25" tires, 270 kg (595 lbs.) with 24" tires
Gross Vehicle Rating: 907 kg (2000 lbs.) on land
817 kg (1800 lbs.) on water

1.4.1 Argo Vehicle Capacity

\[ \text{\textcopyright{} WARNING} \]

Do NOT use an Argo on water when equipped with a snow plow. Do NOT use an Argo 6x6 in water when equipped with a ROPS. The increased weight of the snow plow out front or the top-heavy weight of the ROPS on the 6x6 will make the Argo unstable and could cause the vehicle to capsize, causing injury or drowning to the driver and passengers.

1.5 REAR SEATS - 8 WHEEL MODELS

Argo 8 wheel models are fitted with “quick-release” rear seats.

Removal

1. Grasp the inner edge of the rear seat at both ends.
2. Lift the inner edge of the rear seat upwards until both plastic bumpers are clear of the upper body.
3. Using an upward motion, pull the seat toward the centre of the rear compartment.
4. Remove the seat.

Installation

1. Place the rear seat over the seat mounting holes in the upper body. Insert the large seat washers through the holes.
2. Using downward pressure, slide the seat towards the outside of the vehicle to lock it in place.

\[ \text{\textcopyright{} CAUTION} \]

Vehicle capacity includes occupants, cargo, fuel, and all additional accessories. Capacity for occupants and cargo is reduced by the weight of accessories as shown in the following chart.

Some models come with accessories included. Available vehicle capacity must be reduced if your vehicle is equipped with any additional accessories. Reduce the available capacity by the total weight of additional accessories fitted to your vehicle.

\[ \text{\textcopyright{} WARNING} \]

Load capacity on water is reduced by 100 lbs. if your 8x8 Argo is equipped with optional smaller 24x10.00-8 tires when the standard spec would include 25x12.00-9 (see Section 1.4). The reduced buoyancy could cause the Argo to become swamped and sink, causing injury or drowning to the driver and passengers.

<table>
<thead>
<tr>
<th>Accessory</th>
<th>On Vehicle</th>
<th>On Land</th>
<th>On Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Tracks 6x6</td>
<td>135 lbs.</td>
<td>(60 kg)</td>
<td>85 lbs.</td>
</tr>
<tr>
<td>Regular Tracks 8x8</td>
<td>175 lbs.</td>
<td>(80)</td>
<td>110 lbs.</td>
</tr>
<tr>
<td>Supertracks 6x6</td>
<td>145 lbs.</td>
<td>(65)</td>
<td>90 lbs.</td>
</tr>
<tr>
<td>Supertracks 8x8</td>
<td>210 lbs.</td>
<td>(95)</td>
<td>135 lbs.</td>
</tr>
<tr>
<td>Rubber Track 8x8</td>
<td>295 lbs.</td>
<td>(135)</td>
<td>175 lbs.</td>
</tr>
<tr>
<td>Rubber Track 6x6</td>
<td>230 lbs.</td>
<td>(105)</td>
<td>150 lbs.</td>
</tr>
<tr>
<td>Winch Kit</td>
<td>50 lbs.</td>
<td>(23)</td>
<td>50 lbs.</td>
</tr>
<tr>
<td>Brush Guard</td>
<td>11 lbs.</td>
<td>(5)</td>
<td>11 lbs.</td>
</tr>
<tr>
<td>Windshield</td>
<td>33 lbs.</td>
<td>(15)</td>
<td>33 lbs.</td>
</tr>
<tr>
<td>Roll Bar 6x6</td>
<td>50 lbs.</td>
<td>(23)</td>
<td>50 lbs.</td>
</tr>
<tr>
<td>ROPS 6x6</td>
<td>130 lbs.</td>
<td>(60)</td>
<td>SEE WARNING</td>
</tr>
<tr>
<td>ROPS 8x8</td>
<td>155 lbs.</td>
<td>(70)</td>
<td>155 lbs.</td>
</tr>
<tr>
<td>Half Top</td>
<td>16 lbs.</td>
<td>(7)</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>Full Top 8x8</td>
<td>27 lbs.</td>
<td>(12)</td>
<td>27 lbs.</td>
</tr>
<tr>
<td>Full Top 6x6</td>
<td>22 lbs.</td>
<td>(10)</td>
<td>22 lbs.</td>
</tr>
<tr>
<td>Snow Plow</td>
<td>190 lbs.</td>
<td>(85)</td>
<td>SEE WARNING</td>
</tr>
<tr>
<td>Dump Box</td>
<td>100 lbs.</td>
<td>(45)</td>
<td>500 lbs.</td>
</tr>
<tr>
<td>Rear Bench Seat</td>
<td>34 lbs.</td>
<td>(15)</td>
<td>34 lbs.</td>
</tr>
</tbody>
</table>
## SECTION 1
### GENERAL INFORMATION

#### 1.7 FRONTIER 6x6 VEHICLE MATRIX

<table>
<thead>
<tr>
<th>Old Model</th>
<th>6x6 Frontier EFI</th>
<th>6x6 Frontier EFI</th>
<th>6x6 Frontier EFI</th>
<th>Argo 6x6 750 HDi</th>
<th>Argo 6x6 750 HDi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Frontier 6x6</td>
<td>Frontier 6x6 S</td>
<td>Frontier 6x6 ST</td>
<td>Frontier 6x6 Scout ST</td>
<td>Frontier 6x6 Scout ST</td>
</tr>
<tr>
<td>Engine</td>
<td>Kohler Command Pro ECH630 (19HP) V-Twin 4 cycle, air cooled</td>
<td>Kohler Command Pro ECH730 (23HP) V-Twin 4 cycle, air cooled</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmission</td>
<td>2 forward speeds, neutral &amp; reverse</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clutch</td>
<td>Belt-driven, Continuously Variable Transmission (CVT) maximizes engine power to the transmission</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel Capacity</td>
<td>27 L (7.1 U.S Gal.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steering/Brakes</td>
<td>Hydraulic steering disc brakes with hydraulic disc stopping brakes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive Chains</td>
<td>Single RC 60 Roller chain</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrical</td>
<td>12 volt D.C. battery, 435 cranking amps at 0 F; 25 Amp charging system, electronic ignition</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td>Land - 32 km/h (20 mph)*</td>
<td>Water - 5 km/h (3 mph)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load Capacity</td>
<td>Land 670lbs (304 kg)</td>
<td>640lbs (290 kg)</td>
<td>560lbs (254 kg)</td>
<td>630lbs (286 kg)</td>
<td>530lbs (240 kg)</td>
</tr>
<tr>
<td>Seating Capacity</td>
<td>Land 4 persons</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>880 lbs (399 kg)</td>
<td>910 lbs (413 kg)</td>
<td>990 lbs (449 kg)</td>
<td>920 lbs (417 kg)</td>
<td>1020 lbs (463 kg)</td>
</tr>
<tr>
<td>Accessory</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brake Cooling</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Brake lights</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Brushguard</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Package</td>
<td>Frontier</td>
<td>Scout</td>
<td>Frontier</td>
<td>Scout</td>
<td></td>
</tr>
<tr>
<td>Drive Belt</td>
<td>127-159</td>
<td>127-137</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entry Step</td>
<td>No</td>
<td>Single</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seats</td>
<td>Frontier</td>
<td>Wilderness</td>
<td>Frontier</td>
<td>Wilderness</td>
<td></td>
</tr>
<tr>
<td>Tires &amp; Rims</td>
<td>24&quot; Steel rims Argo</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Winch</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

* Speed is 20% less with 34-200-8.1 or 34-100-3.3 transmission  
** Load capacity in water is 100lbs. less if equipped with optional 24x10.00-8NHS tires.  
*** All vehicles come with bearing extensions, bilge pump and skid plate as standard except for the Frontier 6x6.
### SECTION 1  
**GENERAL INFORMATION**

#### 1.7 FRONTIER 8x8 VEHICLE MATRIX

<table>
<thead>
<tr>
<th>Old Model</th>
<th>8x8 Frontier EFI</th>
<th>8x8 Frontier EFI</th>
<th>8x8 Frontier EFI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>Frontier 8x8 S</td>
<td>Frontier 8x8 Scout S</td>
<td>Frontier 8x8 Responder S</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td>Kohler Command Pro ECH730 (23 hp) V-twin 4 cycle, air cooled</td>
<td>Kohler Command Pro ECH749 (26HP) V-twin 4 cycle, air cooled</td>
<td></td>
</tr>
<tr>
<td><strong>Transmission</strong></td>
<td>2 forward speeds, neutral &amp; reverse</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Clutch</strong></td>
<td>Belt-driven, Continuously Variable Transmission (CVT) maximizes engine power to the transmission</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fuel Capacity</strong></td>
<td>27 L (7.1 U.S Gal.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Steering/Brakes</strong></td>
<td>Hydraulic steering disc brakes with hydraulic disc stopping brakes</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Drive Chains</strong></td>
<td>RC50-2 and RC60 roller chain drive to all 8 axles</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Electrical</strong></td>
<td>12 volt D.C. battery, 435 cranking amps at 0 F; 25 Amp charging system, electronic ignition</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Speed</strong></td>
<td>Land - 30 km/h (19 mph)*  Water - 5 km/h (3 mph)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Load Capacity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td>910 lbs (413 kg)</td>
<td>830 lbs (376 kg)</td>
<td>790 lbs (358 kg)</td>
</tr>
<tr>
<td>Water</td>
<td>810 lbs (367 kg)</td>
<td>730 lbs (331 kg)</td>
<td>790 lbs (358 kg)</td>
</tr>
<tr>
<td><strong>Seating Capacity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td>6 persons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>4 persons</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Shipping Weight</strong></td>
<td>1140 lbs (517 kg)</td>
<td>1220 lbs (553 kg)</td>
<td>1260 lbs (572 kg)</td>
</tr>
<tr>
<td><strong>Accessory</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brake Cooling</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brake Lights</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Brushguard</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Package</td>
<td>Frontier</td>
<td>Scout</td>
<td>Responder</td>
</tr>
<tr>
<td>Drive Belt</td>
<td>127-159</td>
<td>127-137HD</td>
<td></td>
</tr>
<tr>
<td>Entry Step</td>
<td>Single</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Handrails</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Receiver Winch</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Seats</td>
<td>Frontier</td>
<td>Wilderness</td>
<td>Fold Down</td>
</tr>
<tr>
<td>Tires &amp; Rims</td>
<td>24&quot; Steel rims Argo</td>
<td>25&quot; Steel offset rims</td>
<td></td>
</tr>
<tr>
<td>Winch</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

* Speed is 20% less with 34-200-8.1 or 34-100-3.3 transmission  
** Load capacity in water is 100lbs. less if equipped with 24x10.00-8NHS tires.  
*** All vehicles come with bearing extensions, bilge pump and skid plate as standard.
# SECTION 1
## GENERAL INFORMATION
### 1.6 AVENGER VEHICLE MATRIX

<table>
<thead>
<tr>
<th>Old Model</th>
<th>Avenger 750 EFi</th>
<th>Argo 750 HDi</th>
<th>Argo 750 HDi</th>
<th>New model</th>
<th>New model</th>
<th>Argo 750 HDi</th>
<th>New model</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>Avenger 8x8 S</td>
<td>Avenger 8x8 ST</td>
<td>Avenger 8x8 STR</td>
<td>Avenger 8x8 STX</td>
<td>Avenger 8x8 LX</td>
<td>Avenger 8x8 Responder</td>
<td>Avenger 8x8 Responder X</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td>Kohler Aegis 775 (30 hp) V-twin 4 cycle, liquid cooled</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Transmission</strong></td>
<td>2 forward speeds, neutral &amp; reverse</td>
<td>Forward, neutral and reverse with High/Low range</td>
<td>HighSpeed, Forward, neutral and reverse with high/low range</td>
<td>Forward, neutral and reverse with high/low range</td>
<td>HighSpeed, Forward, neutral and reverse with high/low range</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Clutch</strong></td>
<td>Belt-driven, Continuously Variable Transmission (CVT) maximizes engine power to the transmission</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fuel Capacity</strong></td>
<td>27 L (7.1 U.S Gal.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Steering/Brakes</strong></td>
<td>Hydraulic steering disc brakes with hydraulic disc stopping brakes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Drive Chains</strong></td>
<td>Double RC-50 roller chains &amp; Single RC 60 Roller chain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Electrical</strong></td>
<td>12 volt D.C. battery, 435 cranking amps at 0 F; 25 Amp charging system, electronic ignition</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Speed</strong></td>
<td>35 km/h (22 mph)</td>
<td>40 km/h (25 mph)</td>
<td>35 km/h (22 mph)</td>
<td>40 km/h (25 mph)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Load Capacity</strong></td>
<td>Land 1110lbs(503 kg)</td>
<td>1070lbs(485 kg)</td>
<td>1045lbs(474 kg)</td>
<td>1035lbs(469 kg)</td>
<td>1000lbs(454 kg)</td>
<td>950lbs(431 kg)</td>
<td>915lbs(415 kg)</td>
</tr>
<tr>
<td><strong>Water</strong></td>
<td>960lbs(435 kg)</td>
<td>920lbs(417 kg)</td>
<td>895lbs(406 kg)</td>
<td>885lbs(401 kg)</td>
<td>850lbs(386 kg)</td>
<td>800lbs(363 kg)</td>
<td>765lbs(347 kg)</td>
</tr>
<tr>
<td><strong>Seating Capacity</strong></td>
<td>Land 6 persons</td>
<td>4 persons</td>
<td>4 persons</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Shipping Weight</strong></td>
<td>1290lbs(585 kg)</td>
<td>1330lbs(603 kg)</td>
<td>1355lbs(615 kg)</td>
<td>1365lbs(619 kg)</td>
<td>1400lbs(635 kg)</td>
<td>1450lbs(658 kg)</td>
<td>1485lbs(674 kg)</td>
</tr>
<tr>
<td><strong>Accessory</strong></td>
<td>Alternator No</td>
<td>Yes</td>
<td>Brake Cooling Yes</td>
<td>No</td>
<td>Yes</td>
<td>Brake Lights No</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Brushguard</strong></td>
<td>No</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Package</strong></td>
<td>Avenger LX</td>
<td>Responder</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Drive Belt</strong></td>
<td>127-137</td>
<td>127-137HD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Entry Step</strong></td>
<td>Single</td>
<td>Dual</td>
<td>Single</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Handrails</strong></td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Receiver Winch</strong></td>
<td>No</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Seats</strong></td>
<td>Avenger LX Premium</td>
<td>Fold Down</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stereo</strong></td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stretcher Frame</strong></td>
<td>No</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tires &amp; Rims</strong>*</td>
<td>25” Steel</td>
<td>25” Aluminum</td>
<td>25” Steel</td>
<td>25” Aluminum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Winch</strong></td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Speed is 20% less with 34-200-8.1 or 34-100-3.3 transmission  
** Load capacity in water is 100lbs. less if equipped with optional 24x10.00-8NHS tires.  
*** All tire & rims are reversible off-set.  
**** All vehicles come with bearing extensions, bilge pump and skid plate as standard.
# Section 1

## General Information

### 1.6 Avenger Vehicle Matrix

<table>
<thead>
<tr>
<th>Old Model</th>
<th>New model</th>
<th>New model</th>
<th>New model</th>
<th>New model</th>
<th>New model</th>
<th>Argo 750 HDi EU-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Avenger 8x8</td>
<td>Avenger 8x8</td>
<td>Avenger 8x8</td>
<td>Avenger 8x8</td>
<td>Avenger 8x8</td>
<td>Argo 750 HDi EU-17</td>
</tr>
<tr>
<td>Engine</td>
<td>Kohler Aegis ELH775 (30 hp) V-twin 4 cycle, liquid cooled</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transmission</td>
<td>Forward, neutral and reverse with high/low range</td>
<td>HighSpeed, Forward, neutral and reverse with high/low range</td>
<td>Forward, neutral and reverse with high/low range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clutch</td>
<td>Belt-driven, Continuously Variable Transmission (CVT) maximizes engine power to the transmission</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel Capacity</td>
<td>27 L (7.1 U.S Gal.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steering/Brakes</td>
<td>Hydraulic steering disc brakes with hydraulic disc stopping brakes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive Chains</td>
<td>Double RC-50 roller chains &amp; Single RC 60 Roller chain</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrical</td>
<td>12 volt D.C. battery, 435 cranking amps at 0 F; 25 Amp charging system, electronic ignition</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speed Land</td>
<td>35 km/h (22 mph)</td>
<td>40 km/h (25 mph)</td>
<td>35 km/h (22 mph)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speed Water</td>
<td>5 km/h (3 mph)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load Capacity Land</td>
<td>935lbs(424 kg)</td>
<td>910lbs(413 kg)</td>
<td>885lbs(401 kg)</td>
<td>905lbs(411 kg)</td>
<td>850lbs(385 kg)</td>
<td>1000lbs(454 kg)</td>
</tr>
<tr>
<td>Load Capacity Water</td>
<td>785lbs(356 kg)</td>
<td>760lbs(345 kg)</td>
<td>735lbs(333 kg)</td>
<td>755lbs(342 kg)</td>
<td>700lbs(318 kg)</td>
<td>850lbs(386 kg)</td>
</tr>
<tr>
<td>Seating Capacity Land</td>
<td>6 persons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seating Capacity Water</td>
<td>4 persons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>1465 lbs(665 kg)</td>
<td>1490 lbs(676 kg)</td>
<td>1515lbs(678 kg)</td>
<td>1495lbs(678 kg)</td>
<td>1550lbs(703 kg)</td>
<td>1410lbs (641 kg)</td>
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<tr>
<td>Accessory</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alternator</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brake Cooling</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brake Lights</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
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<tr>
<td>Brushguard</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Package</td>
<td>Hunt Master</td>
<td>EU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive Belt</td>
<td>127-137HD</td>
<td>127-137</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entry Step</td>
<td>Dual</td>
<td>Single</td>
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<tr>
<td>Handrails</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heater</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Receiver Winch</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seats</td>
<td>Wilderness</td>
<td>Suspension</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tires &amp; Rims**</td>
<td>25 Steel</td>
<td>25 Aluminum</td>
<td>25 Steel</td>
<td>25 Aluminum</td>
<td>25 Steel</td>
<td></td>
</tr>
</tbody>
</table>

* Speed is 20% less with 34-200-8.1 or 34-100-3.3 transmission
** Load capacity in water is 100lbs. less if equipped with optional 24x10.00-8NHS tires.
*** All tire & rims are reversible off-set.
**** All vehicles come with bearing extensions, bilge pump and skid plate as standard.
SECTION 1
GENERAL INFORMATION

1.8 IDENTIFICATION AND LOCATION OF CONTROLS

- Hood Release
- Engine Access Hood
- Light Switch
- USB
- 12 Volt Outlet
- Cup Holders
- Hand Brake Lever
- Firewall
- Vehicle Identification
- Number Plate
- Gear Shift
- Gauge
- Accelerator
- Twist Grip
- Steering Handle Bar
- Hi/Lo Range Shifter
- Ignition Switch
- 12 Volt Outlet
SECTION 1
GENERAL INFORMATION

1.8 IDENTIFICATION AND LOCATION OF CONTROLS

[Diagram showing vehicle controls and their locations, including:
- Hood Release
- Engine Access Hood
- Hand Brake Lever
- 12 Volt Outlet *
- USB Cup Holder
- Vehicle Identification Number Plate
- Firewall
- Gear Shift
- Gauge
- Steering Handle Bar
- Accelerator Twist Grip
- Light Switch
- Cup Holder
- Ignition Switch
- Hi/Lo Range Shifter
- USB Cup Holder
- Light Switch
- Ignition Switch

* If equipped]
SECTION 1  
GENERAL INFORMATION

1.9 INFORMATION LABELS

There are labels on all models which indicate operating hazards and provide special operating instructions. Information about the use of the holding brake system, the use of the vehicle in water, correct fueling procedures and placement of the floorpans has been provided on distinctive coloured labels fastened to the various locations on the Argo.

Figure 1-1 Location of Information Labels - All Models

The label shown below is located behind the seat in the rear compartment of all 6-wheel models.

Figure 1-2 Rear Compartment Capacity Label - All 6x6 Models
SECTION 2
GENERAL OPERATING INFORMATION

2.1 NEW VEHICLE “BREAK-IN” PROCEDURE

To obtain long term, trouble free service from your vehicle, observe the following break-in guidelines:

1. Vary the speed of the vehicle for the first tank of fuel. Avoid full throttle operation during break-in period.

2. Check engine and transmission oil levels daily during break-in period.

3. Change the transmission oil after initial 20 hours of operation. Failure to do so can result in damage to the transmission bearings or gear surfaces. Refer to Section 6.2.3 and 6.2.4 for transmission oil changing instructions.

4. Change the engine oil in the Kohler engine after the first 20 hours of operation. Refer to Section 6.1.3 of this manual and the oil change section of each engine owner’s manual for oil change information.

5. Check the idler chain adjustment each day before driving the vehicle, and after the initial 2 hours of operation. Refer to Section 7.2.5 for idler chain inspection and adjustment information.

There are no idler chains.

6. Never overload your vehicle. Trying to steer an overloaded vehicle can overheat the brakes. This will lead to brake fade which means loss of steering control and the ability to stop the vehicle. Overloading the vehicle can lead to premature brake system failures and costly damage to drive chains, axles or bearings. Follow the recommended load capacity for the vehicle listed in Section 1.4.

7. Do not allow the brakes to drag, particularly during the first 10 hours of operation. To maximize brake pad life, start by making several low speed turns to both sides. Allow the brakes to cool by driving in a straight line. Repeat the low speed turns. Allow the brakes to cool again. This procedure will properly seat the brake pad friction material to the brake disc. The handlebar should be kept centered during straight ahead operation. Dragging the brakes will cause overheating of the brake components and result in brake fade.

2.2 PRE-OPERATION CHECKS

Carefully follow the engine manufacturer’s recommended pre-operation/daily checks as well as the following:

1. Check the fuel level in the see-through tank located under the driver’s seat.

2. Check the air pressure in all tires. NOTE: Improperly inflated tires can cause the vehicle to pull to one side, requiring constant steering correction. See Section 7.2.6 for tire pressure specifications.

3. Test the operation of the twist grip throttle control by turning it to the fully open position and releasing it. The throttle must operate smoothly and return automatically to the fully closed position. Take the vehicle to an ARGO dealer if the twist grip requires adjustment.

4. Check hand operated brake lever on left hand steering bar for braking capability Section 7.3.5. Check steering handle bar travel to the left and to the right for steering capability. See Section 7.3.7 for Plunger Pin Adjustment.

5. Check the engine intake and exhaust screen for obstructions. Clear any debris that has accumulated.

2.3 CARRYING PASSENGERS AND CARGO

1. Keep cargo as low as possible and evenly distributed.

2. Use extreme CAUTION when negotiating inclines with a loaded vehicle. Heavy loads and high loads decrease the stability of the vehicle and may cause it to roll. Be prepared to shift occupant weight and load forward or have passengers get out of the vehicle to climb an incline.

3. Secure cargo to prevent it from shifting while driving.

4. Do not mount any heavy fixtures to the upper body without support to the vehicle frame. The added weight may cause body deformation that could result in the tires rubbing through the body.

**WARNING**

The rear compartment capacity of all 6 wheel ARGO vehicles is 65 kg (140 lbs.) MAXIMUM. Exceeding this weight limitation will decrease the stability of the vehicle on inclines and increase the possibility of rolling over backwards when climbing a grade. Do NOT exceed this weight in the rear compartment.
SECTION 2
GENERAL OPERATING INFORMATION

WARNING

Make sure all passengers riding in an ARGO equipped with tracks and ice cleats are informed to keep hands, feet and clothing inside the vehicle, well away from the tracks and ice cleats, while the ARGO is in motion. Serious injury or death could result from getting caught by the ice cleats.

2.4 OPERATORS WITH DISABILITIES

WARNING

The information below pertains to safety procedures, which, if not followed, can result in personal injury or death to the Argo vehicle.

We advise persons with disabilities who operate Argo vehicles, to take certain precautions in the interest of their own safety. Since the nature of disabilities can vary widely, it is impossible to give complete instructions that apply to every specific case. Therefore, it is the responsibility of the Argo driver to take steps beyond the ones suggested in the following that take the special nature of his/her disability into account in order to operate the vehicle safely.

Please read this Operator’s Manual thoroughly BEFORE OPERATING YOUR NEW ARGO VEHICLE.

Equipment

For mobility-impaired drivers, the following additional equipment should be installed in the Argo vehicle:

- roll-over protection
- a special seat assisting the driver in maintaining his/her seating position
- four-point safety harness
- fire extinguisher within reach of the driver

Maximum Payload

Due to the additionally installed equipment, including any other ARGO accessories, the maximum available payload of the vehicle must be reduced accordingly; refer to Section 1 in your ARGO Operator’s Manual under Argo Vehicle Capacity. Never exceed the maximum load capacity of the vehicle.

General

Ensure that an on-board fire extinguisher is fully charged at all times and have it inspected on a regular basis by qualified personnel.

We recommend that you do not venture out in your Argo without being accompanied by an able-bodied person to assist you in case you encounter difficulty. If this is not possible, make sure that adequate communications equipment (eg. cell phone, two-way radio) with an independent power supply is on-board and communication lines are open at all times to call for help if necessary. Remember, a simple technical failure could leave you stranded.

If parts of your body are pain insensitive, please take extra care to ensure that your skin does not touch components of the Argo that may be hot. Also, be aware of hot air exhaust outlets and moving parts.

Water Operation

Carefully read Section 5 of the Operator’s Manual covering water operation.

Enter the water from a firm gradual slope. If the water is deep enough for the vehicle to float, unlatch all safety belts and restraining devices, including the operator's. In shallow water be prepared to free yourself from restraining devices quickly. If an emergency arises, you and your passengers may have to leave the vehicle quickly.

If the vehicle is equipped with an optional convertible top assembly, fold the top assembly down to allow for a quick exit in case the vehicle submerges and to reduce the surface exposed to the wind.

Be aware that the weight of the ROPS makes the vehicle more likely to rollover in water than an unmodified vehicle.

We do not recommend the use of your Argo on frozen water surfaces because of the danger of breaking through the ice and the risk of exposure in cold water. (Refer to Section 5 of the Operator’s Manual.) If you must cross ice-covered bodies of water, take along an able-bodied person to assist if difficulties are encountered.

Land Operation

When operating the vehicle on land, make sure all occupants including yourself are wearing the seat belts and you are strapped in your seat firmly at all times. Loss of seating position could result in loss of control of the vehicle.

Be constantly aware of the overall height and width of your Argo vehicle equipped with the ROPS. Watch out for low objects, eg. brush, branches, etc. which could strike the ROPS and cause the vehicle to stop abruptly, rollover, or go out of control.
Due to the weight of the ROPS, your vehicle is more likely to rollover on land than a standard Argo vehicle. Ensure passengers and operator remain seated at all times and keep all cargo low and evenly distributed.

Seat belts must be properly adjusted and worn by all occupants at all times EXCEPT when the vehicle is floating in water.

We have provided this information because we want you to enjoy your mobility in the outdoors safely. However, please keep in mind that all the warnings and instructions in the world cannot replace common sense. You’ve got it – please use it.

2.5 FUELING THE VEHICLE

**WARNING**

Gasoline is extremely flammable and can explode under certain conditions. Do not add fuel while the engine is running or hot. If fuel is spilled in, on or around the vehicle, wipe it up immediately. Flush out any fuel spilled in the vehicle with water and allow it to drain out through the drain plug holes. Do not smoke when filling the fuel tank.

Use clean, fresh, unleaded gasoline in all models of the ARGO. Minimum 87 octane fuel is recommended.

Leaded gasoline can be used as a substitute fuel. However, if leaded gasoline is used, the engine will require more frequent servicing.

Never use gasoline containing methanol or white gas since engine or fuel system damage could occur.

All Argo models are equipped with a 27 litre (5.9 Imp. Gal, 7.1 U.S. Gal.) "see-thru" polyethylene fuel tank located under the driver's seat. Depending on loading and driving conditions, an ARGO can be driven for 7 to 12 hours on one tank of fuel. Verify your vehicle's actual fuel consumption before attempting any long trips. Never travel in remote areas or set out on long trips without a full tank of fuel and adequate spare fuel stored in approved watertight fuel containers.

The fuel filler neck and fuel cap are located on the right side of the vehicle behind the driver's seat. Replace the fuel cap if fuel leakage occurs, or if moisture is detected in the fuel. Use ARGO Part No. 126-46 fuel cap.

Never fill the tank to the point where the fuel level rises into the filler neck. If the tank is overfilled, heat may cause the fuel to expand and overflow through the vent.

Portable fuel containers may contain contaminants (dirt, water, etc.) that will cause engine operating problems. Use only clean, approved gasoline containers.

After filling the fuel tank, be sure the fuel cap is replaced securely. Do not drive the vehicle unless the fuel cap is properly in place.

**CAUTION**

Never use untreated gasoline that has been stored for more than 45 days. Stale gasoline can cause deposits to form in the fuel lines and carburetor. These deposits clog the fuel system and cause engine starting and operating problems.

When storing the ARGO for 45 days or more, use ARGO Part No. 127-77 Fuel Stabilizer to treat fuel in the fuel tank and fuel containers.

2.6 VENTED FUEL SYSTEM - ALL MODELS

All ARGO models have fuel systems that are vented through a special hose connected to the filler neck assembly that runs along the upper body forward to the engine.

**WARNING**

When installing the Convertible Top Kit; Since the fuel vent hose runs along the under side of the upper body, care must be taken when drilling mounting holes. The fuel vent hose could be pierced during the drilling process, resulting in a dangerous fuel leak into the vehicle and a costly repair procedure.

**CAUTION**

Never use gasoline or other harsh solvents to clean the Argo body. All Camouflage material is especially vulnerable to damage and peeling if it comes into contact with gasoline. Take precautionary action when refueling to protect the body from any such occurrences.
SECTION 2
GENERAL OPERATING INFORMATION

2.7 INSTRUMENT CLUSTER
Argos are equipped with an LCD instrument cluster. Figure 2-1.

It displays battery voltage, hourmeter, odometer, speedometer, coolant temperature (liquid cooled engines only) and tachometer. There are indicator lights for parking brake, low oil pressure, and diagnostic light.

Gauges are calibrated in metric, speed is in km/h and odometer is in km. Pressing the KM/MILE button will switch the speed to mph and the odometer to mi.

To toggle between odometer and hourmeter, press MODE.

The temperature reading on the gauge is as follows:

1 bar: <131°F / <55°C
2 bars: 131-166°F / 56-74°C
3 bars: 167-202°F / 75-94°C
4 bars: 203-237°F / 95-114°C
5 bars: >237°F / >115°C

Figure 2-1. LCD Instrument Cluster.
SECTION 3
OPERATING INSTRUCTIONS

3.1 BRAKES AND STEERING

**CAUTION**

Do NOT oversteer. Avoid the tendency to push or pull harder on the steering system if the vehicle is not responding as expected. Once the steering brakes have been locked, pushing or pulling harder on the steering system will not increase the turning capacity of the vehicle. Damage may occur to the steering system as a result of oversteering.

The moto-cross style steering handle bar is used to turn the vehicle when it is moving in forward or reverse. Pulling back on the right side of the steering handle bar while pushing on the left side of the handle bar, causes the vehicle to turn right. Pulling back on the left side of the steering handle bar while pushing on the right side causes the vehicle to turn left. (Figure 3-1). To stop the vehicle, pull back on the hand brake lever located on the left handle bar.

The ARGO is a skid steer vehicle. During a turn, the rear of the vehicle swings outward as the vehicle pivots on the front tire on the inside of the turn. To make a right hand turn, the rear of the vehicle skids out to the left. To make a left hand turn, the rear of the vehicle skids out to the right.

**WARNING**

When turning, the back of the vehicle swings to the opposite direction of the turn. 8-wheel vehicles swing out further than 6-wheelers. Always take care to avoid hitting persons or objects with the rear of the vehicle! Serious injury or death can result!

3.2 EMERGENCY/PARKING BRAKE SYSTEM

When in use, the emergency/parking brake system keeps the wheels locked in the full braking position.

To apply the emergency/parking brake system:

1. Pull the hand brake lever up firmly so the ratchet mechanism engages.

To release the emergency/parking system:

1. Pull up on the hand brake lever and press the button on the end to release the ratchet mechanism.

3.3 THROTTLE CONTROL

Vehicle speed is controlled by the throttle twist grip. To increase vehicle speed, turn the twist grip as shown in Figure 3-2. To decrease vehicle speed, release the twist grip so the engine returns to idle.

![Figure 3-2. Operation of the throttle twist grip](image)

3.4 STARTING PROCEDURE

**WARNING**

Never start or run the engine in a closed building or confined area. Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odourless, colourless and can cause serious personal injury or death.

All ARGO models are equipped with key operated, electric start systems. Starting procedure is identical for all models. To start the vehicle, proceed as follows:

1. Place the gearshift in the neutral (N) position.
2. Apply the emergency/parking brake system.
3. Turn the key to the “START” position. (See Figure 3-3).
SECTION 3
OPERATING INSTRUCTIONS

3. If the engine fails to start, repeat steps 1 and 2. If the engine
does not start after two priming intervals, contact your
Kohler Engine Service Dealer for further assistance.

3.7 STOPPING THE ENGINE
Release the throttle twist grip. Let the engine speed return to
idle and turn ignition switch to the “OFF” position. Always
remove key from ignition switch when leaving the vehicle
unattended.

3.8 SELECTING AND CHANGING TRANSMISSION
GEARS
DO NOT CHANGE TRANSMISSION GEARS WHILE THE
VEHICLE IS MOVING. To change gears, bring the vehicle to
a complete stop, let the engine idle down completely, engage
hand brake and move the shift lever to the selected gear.

3.8.1 Changing Transmission Gears
The “classic” transmission is a four position transmission. The
gearshift lever extends through the firewall and is moved in an
"H" pattern. Low Range is located to the left of neutral, high
range to the right of neutral and reverse up and to the right of
neutral. (See Figure 3-5.) PLEASE OBSERVE CAUTIONS.

3.8.2 Changing Transmission Gears
The "Admiral" transmission is equipped with two shift levers.
One gearshift lever extends through the firewall and moves
left and right. Forward gear is located to the left of neutral
and reverse gear to the right of neutral. (See Figure 3-6.)
PLEASE OBSERVE CAUTIONS. There is a second shift

CAUTION
Do not operate the starter continuously for more than 5
seconds or the starter may overheat. Wait 30 seconds
between each operation of the starter to let it cool and
the battery power recover. Never attempt to restart the
engine until the engine completely stops. Always remove
key from switch when leaving vehicle unattended or when
vehicle is not in use.

4. Release the key as soon as the engine starts: the key will
automatically return to the “RUN” position.

5. Release the twist grip control and allow the engine to come
to an idle.

6. Release the parking brake.

7. If the engine fails to start, refer to the troubleshooting chart
in Section 8 for corrective action.

3.5 NEUTRAL START SWITCH
If the vehicle will not start in neutral, the battery has a charge,
and the electrical connections to the neutral start are all ok,
find the two green wires labelled "override" and unplug them
from the wire harness. (Open the hood and locate them to the
right of the fuse block.) Connect the 2 wires that are labelled
"override" together. This bypasses the neutral start switch on
the transmission. Have the problem corrected by your Argo
dealer ASAP. Connect these two wires together and start the
unit. Make sure that the neutral start device is repaired
and reconnected at the earliest convenience as an accident
may occur.

3.6 PRIMING PROCEDURE
If the vehicle has run out of fuel, follow the procedure below
to prime the fuel system to restart.

1. Turn the key switch to the "ON" position for one minute.
 Allow the fuel pump to cycle and prime the system. Turn
the key switch "OFF".
2. Turn the key switch to the "START" position, crank and
start engine.
SECTION 3
OPERATING INSTRUCTIONS

lever located on the right dash. High range is selected when
the lever is in the up position and should be used for most
driving conditions. Low range is selected when the lever is
in the down position. (See Figure 3-7.)

⚠️ CAUTION

Do not shift from Hi to Lo range or vice versa while
vehicle is in motion. Ensure vehicle is at a complete
stop before placing the lever into the desired range.

Figure 3-6. Gear shift travel and gear positions.

⚠️ CAUTION

Do not attempt to move the gearshift from the neutral (N)
starting position until the engine idles down completely.
The ARGO is equipped with an automatic clutch that
is activated by engine speed. If the engine idle speed
is too high, the transmission will grind during gear
engagement.

3.9 HEADLIGHTS

All ARGO vehicles are equipped with 2 headlights that are
operated through the dash mounted light switch. To turn the
lights on, push the switch.

⚠️ CAUTION

Do not leave the lights on for any length of time when
the engine is not running. Leaving them on will drain
the battery.

Always turn the ignition switch to the ‘OFF’ position
when turning off the engine. On AVENGER models the
brake cooling system remains operational in the ‘RUN’
position after the engine has been turned off.

Avoid frequent starting of the engine and extensive
idling. Both will lead to a drain of the battery because
the electrical draw may be greater than the charging
rate at engine idle.

Figure 3-7. Hi/Low range positions.
SECTION 4
DRIVING PROCEDURES

4.1 DRIVING STRAIGHT AHEAD

The Moto-Cross style steering bar is spring loaded to return to a centered position. (See Figure 4-1). At this location, no braking is applied to either of the calipers. It is at this position that the steering bar should be when driving straight ahead. Turn the throttle twist grip slowly until the clutch system engages and the vehicle moves forward.

Figure 4-1. Position of moto-cross style steering bar in straight ahead operation.

4.2 STOPPING THE VEHICLE

Allow the throttle grip to return to the idle position. Squeeze the handle mounted brake lever with your left hand.

4.3 TURNING THE VEHICLE

The ARGO is a skid steer vehicle. The rear of the vehicle swings outward during a turn. Always take precautions when making turns to avoid hitting persons or objects. The proper way to make a wide turn is illustrated in Figure 4-2. Make a series of short turns. Centre the steering handle bar. Riding the brakes while making turns will result in excessive heat, brake fade and lead to premature brake wear.

Figure 4-2. Correct method of making a wide turn

4.3.1 Left Turn

Do NOT oversteer. Avoid the tendency to push or pull harder on the steering system if the vehicle is not responding as expected. Once the vehicle's brake disc has been locked, pushing or pulling harder on the steering system will not increase the turning capacity of the vehicle. Damage may occur to the steering system as a result of oversteering.

To make a left turn, pull back on the left steering bar while at the same time pushing on the right to stop the brake on the left side of the vehicle. When the turn has been completed, return the steering bar to the centre position.

4.3.2 Right Turn

Pull back on the right steering bar while at the same time pushing on the left to stop the brake on the right side of the vehicle. When the turn has been completed, return the steering bar to the centre position.

4.4 BACKING THE VEHICLE UP

With the engine at idle, shift the transmission into reverse. Ensure that the steering handle bar is centred. Turn the throttle twist grip slowly until the clutch engages and the vehicle moves backwards. Increase speed by gradually turning the accelerator twist grip. For the HDi and HD models, it is recommended that the Hi/Low shift be set in the Low position when operating in reverse.

4.4.1 Turning The Vehicle While Backing Up

Pull on the right bar and push on the left to turn right. Pull on the left bar and push on the right to turn left. When turning the vehicle while backing up, the rear of the vehicle swings in the direction of the turn. This is unusual for most people who are not familiar with skid steer vehicles. Carefully practice backing up and turning in an open area until you become accustomed to this procedure. Take precautions to avoid hitting persons or objects.

WARNING

Sharp turns, especially at high speeds or when heavily loaded, may cause the vehicle to roll over. Slow the vehicle down before making a turn. Do not apply the brakes too suddenly.

WARNING

Do not push against the firewall with your knees. Damage to the firewall and serious personal injury can result from the driven clutch wearing through the firewall.
SECTION 4
DRIVING PROCEDURES

4.5 OPERATING INSTRUCTIONS

The 750 HDi and HD models are equipped with the ADMIRAL steering transmission. The ADMIRAL is a triple differential transmission with unique steering characteristics not found in prior Argo models or traditional skid steer vehicles. The ADMIRAL features two distinct modes of operation, HIGH range for typical trail riding and LOW range when tight turns are required. This transmission allows the ARGO to tackle a wider range of terrains and operating conditions.

When operating in HIGH range, a full lock right steering input will cause the right side wheels to turn forward at a lower rate (approximately 1/3 the speed) compared to the left side wheels and vice versa when full lock left steering input is applied. While this does not allow for zero radius turns, as found on Avenger and Frontier models, it does greatly increase efficiency, reduces engine, transmission & brake temperatures and reduces driver steering effort.

When operating in LOW range, a full lock right steering input will cause the right side wheels to turn backwards slightly. This will result in a tighter turn compared to transmissions found on the Avenger and Frontier. This mode of operation should only be used for slow speed operation when tight turning is required.

NOTE: Extended use of Low range at higher speeds may result in increased engine, transmission and brake temperatures. This mode of operation should be avoided unless the terrain or obstacles warrants its use.

4.5.1 Selecting Forward, Neutral, Reverse, High or Low

The ADMIRAL transmission uses dog clutches to engage internal gears. The dog clutch is not synchronized to allow for shifting-on-the-fly. To avoid personal injury, transmission, vehicle or property damage, always bring the vehicle to a complete stop, allow the engine to return to idle, compress and hold the hydraulic hand brake, then select the appropriate gear function. Once selected, release the hydraulic hand brake and accelerate to desired speed.

NOTE: When selecting from HI to LOW or LOW to HI, the dog clutch may not automatically engage its mating gear. This is normal and expected. The HI and LOW selector is spring-loaded and will lock into place once engine RPM rises and clutches begin to engage. A slight, but normal, “clunk” noise may be heard during this procedure.

4.5.2 Recommended Gear Selections

Trails and higher speed driving: Recommended gear selection HIGH range: In High range, these models will turn as tight as most ATV’s and UTV’s, which is ideal for trail riding. Compared to previous braked skid steer vehicles, these models will corner with minimal loss of speed or engine power. The increased efficiency results in cooler running temperatures for the engine, transmission and steering system.

Towing: Recommended gear selection HIGH range: With increased efficiency and positive all-wheel drive in high range, the operator is able to maintain momentum, traction and control while under load. Engine power and smooth steering is maintained, point-turn operation is eliminated, allowing for smooth operation and towing. The elimination of point-turn while in high range reduces the likelihood of a “jackknife” situation.

Climbing hills: Recommended gear selection HIGH range: Similar to a towing situation, climbing hills successfully means maintaining traction and momentum. It is usually unwise (and unsafe) to perform sharp turns while climbing hills, so Low range, if required, should be used with caution in these situations.

Mud and Snow (including track use): Recommended gear selection HIGH or LOW range: Low traction situations are usually handled best in high range due to the fact that any turning inputs will “lock the differential” and force all 8 wheels to drive. If tightly spaced obstacles are present, low range will provide added maneuverability, albeit at a cost in both traction and efficiency.

Water / Amphibious use: Recommended gear selection HIGH or LOW range: While operating the vehicle in deep water, either range selection may be appropriate. In High range, the operator may notice a lack of maneuverability, especially at full throttle. In Low range, the inside, or steered, tires can counter rotate thereby providing greater maneuverability and control when turning the vehicle. There is a slight reduction of top speed when selecting Low range for water / amphibious use.

Low speed (with obstacles): Recommended gear selection Low range: While traversing a rock field or a wooded area, increased maneuverability available in Low range is a valuable asset. Switching back to High is highly recommended when the terrain clears and tight / sharp turning is not required.
SECTION 5
DRIVING PROCEDURES IN UNUSUAL CONDITIONS

5.1 REMOTE AREA USE

When traveling in remote areas or when traveling long distances, the following items are essential:

- a first aid kit
- a complete survival kit
- protective clothing and footwear
- waterproof safety matches
- candles
- emergency flares
- communications equipment
- adequate fuel supply in approved, watertight containers
- fire extinguisher
- back-up battery
- basic mechanic’s tools and Argo spare parts

Before venturing into remote areas, carry out all inspections, adjustments and lubrication checks detailed in this manual. Do not proceed unless your vehicle is in good working condition.

Inform someone of your departure and return plans and your route so that help can be dispatched if you do not return as scheduled. Do not travel into a remote area alone.

Choose your equipment and supplies to meet the climate and terrain conditions that you may encounter.

Practice safe driving habits when traveling in remote areas. Avoid terrain that may be impassable.

5.2 ANGLE OF OPERATION

When operating any Argo vehicle on an angle, (up and down hills or across uneven terrain that causes the vehicle to tilt in any direction) the engine oil level and fuel delivery to the engine is affected.

If the engine oil level falls below the oil pump intake, damage can occur because of inadequate lubrication. To avoid engine damage and costly repairs:

- Do not operate your engine continuously on angles or inclines that are greater than 30 degrees in any direction.
- Make sure the engine oil level is near the “full” mark (However, do not overfill.)

The engine may also starve for fuel if the angle of operation is excessive. An engine starved for fuel is likely to sputter and hesitate, and may cause the vehicle to “buck.” This can lead to loss of control and rollover. To prevent this, do not operate the vehicle on slopes greater than 30 degrees.

5.3 UPHILL OPERATION

**WARNING**

Never accelerate or brake suddenly while driving up or down a hill. Sudden acceleration or braking can cause the vehicle to roll over, causing serious personal injury or death.

The rear compartment capacity of all 6 wheel ARGO vehicles is 65 kg (140 lbs.) MAXIMUM. Exceeding this weight limitation will decrease the stability of the vehicle on inclines and increase the possibility of rolling over backwards when climbing a grade. Do NOT exceed this weight in the rear compartment.

Never attempt to turn the vehicle around on a steep hill or grade. Turning the vehicle around on a hill can result in the vehicle rolling over.

Approach the hill head on to minimize the possibility of sliding sideways or rolling over. Accelerate slowly to prevent loss of traction. When traction is lost, the vehicle may slide sideways or backwards. If this occurs, apply the brakes gently and evenly to stop the slide. Allow the vehicle to coast to the bottom of the hill by carefully releasing the brakes.

Try to avoid steep hills. When a steep hill can’t be avoided, be prepared to shift occupant weight forward, or have them get out of the vehicle to prevent the vehicle from rolling over. As a general rule, driving up a steep hill greatly increases the possibility of rolling over.

5.4 DOWNHILL OPERATION

Always approach the hill head on to minimize the possibility of sliding sideways, or rolling over. Gently apply the brakes to control downward vehicle speed. Do not jam on the brakes while traveling downhill. Sudden braking can cause the vehicle to roll over forwards. Continuous or excessive use of the brakes while going downhill can overheat them, leading to brake fade. An alternative to applying the brakes while going down a gentle decline is to use engine braking. Select low range and keep the engine speed up just enough to keep the clutch engaged.

**WARNING**

Continuous or excessive use of the brakes while going downhill can overheat them, leading to brake fade. Loss of brakes could result in serious injury or death.

Avoid steep declines when possible. When a steep decline cannot be avoided, shift occupant weight to the rear of the vehicle to prevent the vehicle from rolling over. As a general rule, driving the vehicle down a steep decline greatly increases the possibility of rolling over.
SECTION 5
DRIVING PROCEDURES IN UNUSUAL CONDITIONS

5.5 SIDE SLOPE OPERATION

Do not drive your vehicle across the side of a hill. Side slope operation greatly increases the risk of rolling the vehicle over sideways.

Prolonged side slope operation may cause engine damage. Observe the engine angle of operation limitations in Section 5.2.

Operation on side slopes will require frequent use of the brakes for steering correction since the vehicle tends to head downhill. This may cause brake overheating or fade.

5.6 AMPHIBIOUS OPERATION - GENERAL

WARNING

ARGO vehicles may sink if they fill with water. If water starts entering the vehicle, head to the nearest shore immediately. Be prepared to abandon the vehicle if it appears that the vehicle will fill with water before you reach the shore. Be especially cautious when operating a loaded vehicle (cargo and/or passengers) in water. Observe the capacity limits.

Use caution and good judgement when entering water. Drowning can occur even in shallow water. Watch for obstacles under the water that could destabilize or upset the vehicle and may cause occupants to be ejected from the vehicle. Make sure all persons in the vehicle are wearing approved life jackets or Personal Flotation Devices.

All ARGO vehicles are self-propelled, amphibious vehicles, capable of navigating calm water, provided the following precautions are observed:

1. Do not enter water if the vehicle is overloaded. Refer to Section 1.4 of this manual for recommended load capacity in water.

2. Do not use seat belts or any restraining device while the ARGO is floating in water. In shallow water, be prepared to free yourself from restraining devices quickly. If an emergency arises, you and your passengers may have to leave the vehicle quickly.

3. Do not attempt to cross large bodies of water. Stay close to the shore in case an emergency arises and you have to leave the water.

4. Do not attempt to navigate any body of water with a strong current. Avoid water operation under windy conditions.

5. Do not use the Argo in water when equipped with tracks unless it is also equipped with an outboard motor. The tracks do not propel the Argo in water.

6. Use extra caution when operating the ARGO in cold water. If the vehicle upsets or swamps, exposure in cold water significantly reduces the chance of survival.

7. Be prepared to adjust the position of cargo and passengers so the vehicle floats level.

8. Care must be taken when encountering submerged obstacles that may upset the vehicle.

Observe the following safety precautions BEFORE entering the water:

1. All occupants must wear an approved personal flotation device (PFD) or life jacket while traveling in water.

2. Equip the vehicle with a paddle and bailing can for water operation. An optional bilge pump kit (ARGO Part No. 638-40) is available from your ARGO dealer and is recommended in addition to the onboard bailing can.

Drain Plugs

1. Drain Plugs are accessible from the outside of the vehicle. Make sure both drain plugs in the rear of the lower body (Figure 5-1) are in place and properly tightened. To install, locate the drain plugs at the rear of the vehicle and thread each drain plug in a clockwise direction into the plug fitting ensuring a snug fit. Check the O-ring on drain plug periodically. When removed, each drain plug remains attached to the hole opening to prevent loss or misplacement of the plug while the vehicle is draining. (Figure 5-2).

2. Visually check the lower body of the vehicle for cuts, punctures or holes that will allow water to enter the vehicle.

3. Make sure that any cargo in the rear of the vehicle is evenly distributed.
SECTION 5
DRIVING PROCEDURES IN UNUSUAL CONDITIONS

4. Periodically inspect the outer bearing flange and gaskets of each axle (Figure 5-3) to ensure they are water tight. If there are signs of water leaking into the lower body, take corrective action before entering water again. Make sure there is sufficient grease in the bearing flange and that the grease seal is in good condition.

If a leak is detected, drive back onto shore. Drain the vehicle and repair the leak before re-entering the water.

If the body of water must be entered from a steep slope or uneven terrain, it may be better to back the vehicle into the water. With the engine and transmission weight concentrated in the front of the vehicle, the rear is lighter and floats higher if the rear compartment is not heavily loaded. In some cases, if there is a passenger or two and/or additional cargo in the rear, backing into the water could cause water to flood over the transom area and into the rear compartment. Always seek out a safer route for entry into the water if the terrain appears too dangerous.

Be careful not to submerge the bumper as you enter the water. With the bumper submerged, water can enter through the openings in the upper body.

5.6.2 Driving Procedures in Water

After the vehicle is floating evenly on the water, turn the throttle twist grip to increase speed. (Note: If the vehicle is equipped with a ROPS, unlatch all seatbelts.) Use only part throttle when traveling through water. Full throttle only results in excessive turbulence, not higher speeds.

The vehicle is steered by a combination of pulling on the right bar and pushing on the left to steer right or vise-versa to travel left. The turning radius is somewhat greater in water, and the vehicle does not respond to changes in direction as quickly as it does on land. Turning in water may be more effective in Low gear.

The vehicle is propelled forward through the water by the web of the tires as they rotate. To back up in water, release the throttle, shift the transmission into neutral, and use a paddle.

Avoid rocks, stumps or other obstacles that are below the surface of the water. Striking these obstacles may damage the bottom or upset the vehicle.

If your vehicle begins to fill with water, immediately head to the nearest shore. Get the vehicle out of the water and drain it by removing both rear drain plugs. Correct the leak before entering the water again.

**WARNING**

Load capacity on water is reduced by 100lbs. if your 8x8 Argo is equipped with optional smaller 24x10.00-8 tires when the standard spec would include 25x12.00-9 (see Section 1.4). The reduced buoyancy could cause the Argo to become swamped and sink, causing injury or drowning to the driver and passengers.

The point of entry should be free of rocks, stumps and other obstacles. Enter the water from a firm, gradual slope whenever possible. With the wheels partially submerged but still in contact with the bottom, stop and check thoroughly for water entering the lower body.

**CAUTION**

Do not leave the vehicle in water for extended periods of time. Water could enter the axle seals and cause damage to the axle bearings.
SECTION 5
DRIVING PROCEDURES IN UNUSUAL CONDITIONS

5.6.3 Driving Out of Water

When driving out of water, choose an area of the shore that is reasonably flat and free of rocks, stumps and other obstacles. Steer the vehicle so that both front wheels reach the shore at the same time. Accelerate slowly until the vehicle is out of the water. If vehicle is equipped with a ROPS system, re-fasten seatbelts.

5.6.4 Outboard Motor Bracket

Your vehicle may be equipped with an optional outboard motor bracket (ARGO Part No. 617-09 or 617-10) to mount an outboard motor up to 9.9 h.p. A long shaft outboard motor is preferred to prevent cavitation.

Do not mount an outboard motor on the vehicle unless the special bracket is used. Damage to the vehicle will occur if an outboard motor is mounted directly on the vehicle body.

WARNING

Gasoline is extremely flammable and can explode if ignited. Fill outboard motor fuel tanks outside of the vehicle. Wipe up any spilled fuel immediately. Do not carry or store fuel tanks in a vehicle equipped with a cab or convertible top unless adequate ventilation is provided.

5.7 WINTER OPERATION

Follow these precautions when operating the ARGO in winter conditions:

- Equip the vehicle for remote area use, as listed in Section 5.1.
- Keep the battery fully charged and in good condition.
- Use the recommended winter grade of engine oil.
- Do not allow water or snow to accumulate in the vehicle. Snow may melt during operation of the vehicle, collect in the lower body and freeze around the chains and final drive components, immobilizing the vehicle.
- Store the vehicle indoors or under cover.
- Equip your vehicle with snow tracks for travel over deep snow.
- Steep, snow-covered or icy hills may be more difficult to ascend. Ice cleat kits (625-20 for 6 wheel or 825-21 for 8 wheel) are available for Super Track and Rubber Track systems.
- Never travel alone into a remote area. Leave your route and arrival plans with someone who can send help if you fail to arrive as planned.

5.7.1 Use on Ice Covered Bodies of Water

WARNING

Using the ARGO on ice-covered bodies of water is potentially hazardous. Use extreme caution. Exposure to cold water reduces a person’s chance of survival. Protective clothing, such as a marine survival suit will significantly decrease the effect of exposure in frigid water.

Before venturing out onto ice-covered bodies of water, it is extremely important to:

- Check the ice thickness and condition to be sure it will support the vehicle.
- Take all precautions as in Section 5.6, particularly paragraph 3 referring to drain plugs.

If the vehicle breaks through the ice, it will float in the water, provided that there are no leaks in the body, the drain plugs are in place and vehicle is not taking on water through any body openings. However, there is a risk of the vehicle tipping, particularly if the load is unbalanced. Be prepared to shift occupants’ weight for balance.

Getting back onto safe ice depends on various conditions and the expertise of the driver. Be especially careful to prevent water from entering the vehicle.

- Balance the cargo and passenger load.
- Keep openings, like air intakes/exhaust, etc. above the water line.
- Keep the bilge pump running.
- Winch the vehicle out.
- Back onto ice, as the back end is lighter and floats higher in the water.
- Avoid getting the wheels on only one side onto the ice surface as water could enter over the opposite side of the vehicle.
- Avoid turning as the Argo is climbing out to avoid vehicle tip-over.
- Break the thin ice around the vehicle with the paddle until there is firm ice for the vehicle to climb onto.
- Be wary of currents which may pull the vehicle under the ice.

If you feel that you may not be able to get the vehicle back onto safe ice or land, you might consider staying put to await rescue. This may be safer than trying to leave the vehicle to walk over thin ice.
SECTION 6
OIL, FILTER AND LUBRICATION INFORMATION

6.1 ENGINE OIL INFORMATION

⚠️ WARNING
Detailed information on standard workshop and safety procedures and general installation practices is not included here. ODG assumes no responsibility or liability for PERSONAL INJURY or VEHICLE DAMAGE which results from any procedure performed, including those procedures outlined here. Before performing any procedure, an individual must have determined to his/her satisfaction that personal injury or vehicle damage will not result from the procedure, working environment or tools selected.

6.1.1 Checking the Engine Oil Level

Check the engine oil level each day before operating the engine.

To check the oil during an operating period, shut the engine off, let it cool down and allow the oil time to drain into the sump before checking the oil level. Position the vehicle so the engine is level.

Kohler engines (Figure 6-1 and Figure 6-2) are equipped with a dipstick and a separate oil filler tube. To check the oil level, clean the area around the dipstick before removing. Remove the dipstick and wipe it with a clean cloth. Re-insert the dipstick and push it all the way into the tube. Remove the dipstick and check the oil level. The oil level should be between the ADD and FULL marks. If the level has dropped, add oil to bring the level up to the FULL mark. **DO NOT OVERFILL.**

⚠️ CAUTION

Do not run the engine if the oil level is above the FULL mark or below the ADD mark. Premature engine damage or total engine failure can occur when the oil level is not properly maintained.

6.1.2 Recommended Engine Oil

Use a high quality detergent oil of API (American Petroleum Institute) service class as listed in chart. Choose the correct viscosity of oil for seasonal driving conditions. Using the proper type and weight of oil in the crankcase is extremely important. So is checking oil daily and changing oil regularly. Failure to use the correct oil, or using dirty oil, causes premature engine wear and failure.

!*Oil Recommendations*

We recommend use of Kohler oils for best performance. Other high-quality detergent oils (including synthetic) of API (American Petroleum Institute) service class SJ or higher are acceptable. Select viscosity based on air temperature at time of operation as shown in table below.

Oil capacity (with filter) of all models is 1.9 L (20 qts.)

6.1.3 Changing Engine Oil

During the initial engine break-in period, change the oil after the first 20 hours of operation. After the break-in period, change the engine oil every 100 operating hours or annually or more frequently if the vehicle is operated in dusty or dirty conditions.
Draining the Engine Oil

Each engine is equipped with a drain plug for draining the oil. The drain plug location is shown in the engine owner’s manual. Drain the oil from the engine as follows:

1. Start and warm up the engine so the oil will drain easily.
2. Level the vehicle so the oil will drain completely.
3. Place a suitable container under oil drain of engine and remove drain plug with a 5/16” Allen socket.

**NOTE**

*There is limited space between the engine and power pack frame. Cut down an empty plastic container to the correct height so it will fit under the engine oil drain. Make sure the container will hold the correct amount of oil in the engine.*

*As an alternative to draining the engine oil from the drain plug you can use a vacuum pump and remove the oil through the dipstick tube. A pump suitable for this is available through your Argo dealer, Part No. 638-02.*

**PLEASE DISPOSE OF WASTE OIL PROPERLY TO CONSERVE OUR ENVIRONMENT.**

4. When all the oil has been drained from the engine, clean and replace the drain plug. MAKE SURE it is properly tightened before refilling the engine.
5. See Oil Filter Replacement in Section 6.3.3.

Refilling the Engine

Refill the engine through the oil fill port with the correct amount of oil (Figure 6-3). Make sure the appropriate grade of oil is used (Section 6.1.2). As you add oil, frequently check the level with the dipstick. Do not overfill. Start engine. Check for leaks. Stop the engine. Check the oil level. Add oil only to the “Full” mark on the dipstick.

6.2 TRANSMISSION OIL INFORMATION

6.2.1 Checking the Transmission Oil Level

Check the transmission oil level every 50 operating hours. Most models of the ARGO are equipped with a transmission oil dipstick (Figure 6-4a). Clean the area around the dipstick before removing. Remove the dipstick by pulling up.

The transmission oil level should be even with the mark on the dipstick as shown in Figure 6-4. Add 80 W 90 Gear Lube HYPOY-C through the transmission oil fill/dipstick hole until the transmission is filled to the correct level. DO NOT OVERFILL. Replace the dipstick securely.

Admiral transmissions do not have an oil dipstick. Check for correct oil level by viewing the site glass installed to the lower portion of the transmission housing (Figure 6-4b). To view this site glass, remove the quick release firewall. Oil filling half the site glass indicates correct oil level.
Overfilling may result in oil being forced out the breather hole that could contaminate the brake pads and lead to brake failure.

### Refilling the Transmission

Install the drain plug. Remove the fill/vent plug located on the top of the transmission. Fill the transmission with 80W90 Gear Lube HYPO-C. Fill the transmission until the sight glass is half full. For Oil capacity see Oil Capacity Chart (Figure 6-5).

<table>
<thead>
<tr>
<th>Transmission Oil Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admiral (34-200)</td>
</tr>
<tr>
<td>Classic (34-100)</td>
</tr>
</tbody>
</table>

### 6.3 FILTER INFORMATION

#### 6.3.1 Air Filter

All Kohler Command Pro Low-Profile engines are equipped with a foam precleaner and dry paper air filter element housed in an air cleaner assembly attached to the throttle body.

Replace or wash precleaner in warm water with detergent. Rinse and allow to air dry. Saturate precleaner with new engine oil; squeeze out excess oil. Replace the paper element.

Wash and oil the precleaner after every 25 hours of operation or more often under extremely dusty or dirty conditions.

Check the paper air filter element every 100 hours of operation or more often under extremely dusty or dirty conditions.

#### AVENGER

The Kohler Aegis engine is equipped with a heavy duty high density paper air cleaner element surrounding a canister style inner element. Cleaning is not recommended, each element should be replaced when dirty. See Figure 6-5a.
SECTION 6
OIL, FILTER AND LUBRICATION INFORMATION

For instructions to remove, clean and replace the air filter components, refer to the air cleaner section of the engine Owner’s Manual.

6.3.2 Fuel Filter

All models of the ARGO are equipped with an in-line fuel filter. Avenger EFI models have 1 fuel filter, located in the rear compartment at the fuel tank (Part No. 24 050 03). Figure 6-6.

Replace the Kohler high pressure fuel filter after every 1000 hours of operation or once a year. To replace the filter, loosen the gear clamps with a standard screw driver and pull the rubber fuel lines off of the filter. Install the new filter with the flow arrow pointing toward the engine. Tighten the clamps securely. Start the engine and check for fuel leaks.

6.3.3 Fuel Filter - Frontier

On all other Argo models the fuel filter is located at the engine (ARGO Part No. 125-64 or 25 050 13 for Frontier EFI). Replace every 250 hours or once a year.

6.3.4 Oil Filter

Change the oil filter when the oil is changed (Part No.12 050 01-S for Kohler Aegis and Command Pro EFI engines).

Before installing the new filter, lubricate the rubber filter gasket with clean engine oil. Screw the filter on by hand until the gasket contacts filter adapter. Tighten 1/2 to 3/4 turn more. Start and run engine to check for oil leaks. Stop engine and re-check oil level. Add oil if required.

6.4 LUBRICATION INFORMATION

6.4.1 General

The following parts and components require regularly scheduled lubrication to prevent premature wear and replacement.

1. Idler Chain (if equipped)
2. Drive Chains
3. Bearings

Use the recommended lubricants listed in this section and carefully observe the recommended lubrication intervals.

6.4.2 Clutch Lubrication

No lubrication is required for either the driven clutch or driver clutch. They are designed to run dry. If lubricant is used, use of the vehicle will attract dirt and cause damage to the clutch components. Contamination by dust and dirt can cause poor performance, premature wear or failure.

Only qualified personnel should perform installation, maintenance, adjustments and repair operations on the variable speed transmission system.

A complete service of the clutch units is required after every 250 hours of operation. To perform this procedure, the clutches must be disassembled. Special tools are required to disassemble the clutch units. We recommend that you return your vehicle to an authorized ARGO dealer to have the clutch units serviced.

6.4.3 Drive Chain Lubrication

Your ARGO vehicle is equipped with roller chains to each axle. Lubricate the chains every 10 hours with Aerosol Chain Lube (ARGO Part No. 125-86), or more frequently in dirty or wet conditions.

After every 100 hours of operation, or for extended periods of storage, remove all the drive chains from the vehicle and clean them thoroughly in a suitable solvent, i.e. degreaser. See WARNING following page.
SECTION 6
OIL, FILTER AND LUBRICATION INFORMATION

**WARNING**

Never use gasoline as a cleaning solvent. Gasoline is extremely flammable and can explode if ignited, causing serious personal injury.

Allow the chains to dry thoroughly, re-lubricate generously with ARGO Chain Lube and re-install.

Refer to Section 7.2.3 of this manual for drive chain removal and re-installation instructions.

6.4.4 Automatic Chain Oil Luber System (if equipped)

**NOTE**

Proper lubrication of the chain drive components greatly increases their service life. Keeping chains out of water and dirt will also improve the effectiveness of chain lubrication.

**Operation:**
The automatic chain oil system operates on a timed circuit that starts as soon as the key is turned to the run position. The system starts with a 15 minute (or 1 hour optional) off cycle followed by a 5 second on cycle when the pump runs and supplies oil to the oil drip tubes. The drip tubes, direct the drips to land between each inner and outer plate of the chain.

The override switch on the dash bypasses the timer and will run the pump for as long as the switch is pressed. This switch is meant to be used to run the pump for initially priming the system, checking drip tube alignment, or manually re-lubricating the chains after cleaning them. Once the switch is activated, the timer is reset to the beginning of the 15 minute or 1 hour timer cycle.

The chain lube system timer ground is also run through the parking brake switch. When the engine is running and the parking brake is applied, the timer is interrupted and shuts down the lube system. The timer is reset to beginning of timer cycle, 15 minute or 1 hour. **IMPORTANT:** If vehicle is never driven longer than the 15 minute or 1 hour time duration, lube system will never operate to lube chains.

**Recommended Oil:**
Any good quality oil of the proper viscosity (based on temperature, see chart) can be used. The oil must be able to penetrate into the bushings and side plates to be effective. Do **not use** used oils, high tack oils (i.e. chainsaw bar oil), heavy oil, or grease.

<table>
<thead>
<tr>
<th>TEMPERATURE</th>
<th>OIL VISCOSITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40 ~ 0 C</td>
<td>SAE 10 or 5W-30</td>
</tr>
<tr>
<td>(40 ~ 32 deg. F)</td>
<td>(32 ~ 104 deg. F)</td>
</tr>
<tr>
<td>0 ~ 40 C</td>
<td>SAE 20 or 10W-30</td>
</tr>
<tr>
<td>(32 ~ 104 deg. F)</td>
<td>(104 ~ 122 deg. F)</td>
</tr>
<tr>
<td>40 ~ 50 C</td>
<td>SAE 30 or 10W-40</td>
</tr>
</tbody>
</table>

First time operation:
1. Fill the reservoir with appropriate oil.
2. Remove the front floor pan, firewall, and rear floor pan.
3. Turn the key to run position, press and hold the override switch. You will hear the pump.
4. With the pump running watch below the drip tubes to see when the oil begins to drip. It may take close to 2 minutes of continuously holding the switch before the system is primed. The oil will start dripping on the front chains several seconds before it drips on the rear.
5. Once the oil starts dripping watch the drips to make sure they are falling onto the side plates of the chain.
6. Loosen the bolt holding the drip tube and adjust the position as required.

System may require priming if reservoir is run dry or after extended periods of non use.

**Maintenance:**
- Check the level in the reservoir prior to daily operation.
- For optimum pump and chain life, do not let the reservoir run dry.
- Periodically check to make sure all holes are dripping oil correctly.
- Wiping the bottom of the drip tubes with a rag will remove any larger deposits of dirt.
- A full reservoir of oil should last approx 40 hrs of run time.

**CAUTION**

If your vehicle is equipped with an auto chain lube system, monitor steering brake discs and service brake discs weekly, for any signs of oil contaminated dirt and debris. This can be the result of excess oil spraying from moving chains. Regularly clean or pressure wash drive train if oily dirt and debris builds up on drive chains, brake discs or other components that could affect vehicle performance and braking capabilities.

6.4.5 Idler Chain Lubrication

Lubricate the idler chains after 10 hours of operation, and more frequently if the vehicle is operated in dirty or wet conditions (Figure 6-7). Use only ARGO Chain Lube (ARGO Part No. 125-86) to lubricate the idler chains.
SECTION 6
OIL, FILTER AND LUBRICATION INFORMATION

When applying the chain lube, protect the brake discs with a rag or simple cardboard shield (Figure 6-8). DO NOT SPRAY CHAIN LUBE ON THE BRAKE DISCS OR PADS. Roll the vehicle so that all of the idler chain is accessible for lubrication.

Do not use regular oil or grease to lubricate the idler chains. Regular oil or grease will be thrown off the idler chains during normal operation, and contaminate the brake pads or discs. When these components become contaminated, brake effectiveness can be compromised or complete brake failure can occur.

After every 100 hours of operation or for prolonged periods of storage, remove both idler chains from the vehicle and clean them thoroughly in a suitable solvent. Allow the idler chains to dry thoroughly, re-lubricate them generously with Argo chain lube and re-install. (Refer to section 7.2.5 of this manual for idler chain removal and re-installation instructions.)

NOTE
There are no idler chains on Admiral models.

6.4.6 Outer Axle Bearing Lubrication

CAUTION
DO NOT USE HIGH PRESSURE PNEUMATIC GREASING EQUIPMENT

Each outer axle flange is equipped with one grease nipple. This grease nipple supplies grease directly to the outer axle bearing. It requires re-greasing every 25 hours of operation or before the vehicle is taken out of service for any extended period. Use a pistol grip type grease gun to avoid dislocating the bearing seals due to excessive grease pressure. Figure 6-10.

To promote regular maintenance of important Argo components, Ontario Drive & Gear has provided an access hole through each rim and hub for ease of bearing lubrication.

CAUTION
Do not use high pressure or excessive amounts of grease. Damage to the bearing seals could result.

6.4.7 Idler Shaft Bearing Lubrication

Left and right hand side inner and outer idler shaft bearings are fitted with a right angled grease fitting. With the front floor pan removed, the left side inner idler shaft grease fitting is accessible at the bottom of the bearing flange. The right side inner idler shaft grease fitting is located at the top of
the flange. Both outer idler shaft bearing grease fittings are located at the top of the flange. All of these can be accessed conveniently with a grease gun fitted with a flexible extension head. Grease with a small amount of a lithium based, NLGI #2 or 3 mineral oil based grease, (such as Shell Alvania #3). Apply every 50 hours of operation, if vehicle has been used in water for extended periods of time or whenever major maintenance is performed on the vehicle.

**NOTE**

*There are no inner greaseable idler shaft bearings on Admiral transmission models.*

6.4.8 Output Shaft Lubrication

Output shaft assemblies are equipped with a grease fitting (Figure 6-11) to allow lubrication to both splines of the shaft and coupling connectors. Lubricate every 25 hours with a lithium based, NLGI #2 or 3 mineral oil based grease, (such as Shell Alvania #3). Wipe off excess.

**CAUTION**

*Do NOT apply excessive amounts of grease as this could contaminate brake discs when vehicle is under application and output shafts are turning at a high rate of speed.*

6.4.9 Output Shaft Lubrication (2012 Models and on)

Output shaft spline couplers are equipped with a grease fitting (Figure 6-12) to allow lubrication to the spline of the shaft and coupling connector. Lubricate every 25 hours with a lithium based, NLGI #2 or 3 mineral oil based grease, (such as Shell Alvania #3). Wipe off excess.

6.4.10 Inner Axle Bearing Lubrication

The inner axle flanges are equipped with a grease nipple (Figure 6-13). Lubricate the bearings with a small amount of a lithium based, NLGI #2 or 3 mineral oil based grease, (such as Shell Alvania #3). Apply every 50 hours or before the vehicle is taken out of service for any extended period. Dirt, dust and exposure to water will accelerate this servicing to less than 50 hour intervals. Only a small amount of grease is required.
SECTION 7
MAINTENANCE INFORMATION

7.1 ELECTRICAL SYSTEM

⚠️ WARNING

Detailed information on standard workshop and safety procedures and general installation practices is not included here. ODG assumes no responsibility or liability for PERSONAL INJURY or VEHICLE DAMAGE which results from any procedure performed, including those procedures outlined here. Before performing any procedure, an individual must have determined to his/her satisfaction that personal injury or vehicle damage will not result from the procedure, working environment or tools selected.

7.1.1 General

To prevent damage to the electrical system:

- Never weld on the vehicle. If welding is required, take your vehicle to an authorized Argo dealer.
- Connect battery booster cables properly, positive to positive and negative to negative. Connect negative cable last, disconnect first. **It is not a recommended practice to boost your argo if the battery is dead. If possible, avoid the use of booster cables from an external battery source. Damage can occur to the engine ignition system.**
- Connect switch terminals properly, especially the ground wire.

7.1.2 Battery - ARGO Part No. 127-54 (Exide 45-60)

⚠️ WARNING

Battery fluid contains sulphuric acid. If battery fluid comes in contact with skin or eyes, flush thoroughly with water. If swallowed, call physician or poison control centre immediately. **KEEP AWAY FROM CHILDREN.** Serious personal injury can occur. Always wear rubber gloves and safety glasses when servicing the battery.

Batteries can explode and cause serious personal injury if exposed to flame or sparks. Never smoke while servicing the battery.

The battery is located beneath the drivers bench seat, along side the fuel tank, to the right side of the driver. Argos are also available with maintenance-free AGM (absorbed glass mat) batteries, Argo part no. 613-161.

**Checking the Fluid Level** (Not required for AGM batteries)

Check the fluid level every 50 hours of operation. Remove the pod vents and make sure each cell is filled to the fluid level as shown in Figure 7-1. If the fluid has dropped below the fill well, add distilled water until the cell is filled to correct level. **DO NOT OVERFILL.**

![Fluid Level](image)

**Figure 7-1. Battery fluid level**

**Charging the Battery**

If the battery loses its electrical charge, remove the battery from the ARGO and recharge it with a 12 volt battery charger at the rate of 10-12 amps maximum. Adjust electrolyte if required to bring to proper level. **DO NOT OVERFILL BATTERY.** Replace service vents and install battery per equipment manufacturer’s instructions. Re-install the battery in the vehicle and try to start the engine. If the battery fails to perform properly, have it tested by a battery service dealer. Replace a defective battery with ARGO Part No. 127-54 or ARGO Part No. 613-161 AGM battery.

⚠️ WARNING

Ventilate area when charging. Keep away from spark, heat, cigarettes or open flame.

**Cleaning the Battery Terminals and Cable Connections**

Clean the battery terminals and cable connections every 100 hours. Remove the black NEGATIVE (-) cables first. Make sure you reconnect the NEGATIVE (-) post and the red POSITIVE (+) cables to the POSITIVE (+) posts. Damage to the electrical system will occur if the cables are reversed.
SECTION 7
MAINTENANCE INFORMATION

Cleaning the Battery

Clean the top of the battery every 250 hours with a mixture of baking soda and water. Before cleaning the battery, remove it from the vehicle and make sure the pod vents are in place (non-sealed batteries only). Soak a cloth in the soda/water mixture and scrub the top of the battery. After the foaming has stopped, flush with clean water and dry with a clean cloth.

7.1.3 ELECTRICAL SYSTEM FUSES

All models of the ARGO are equipped with push-in type automotive fuses. The fuses protect the electrical circuits of the vehicle. They are located in the fuse block, inside the engine compartment, just in front of the steering system. Replace any blown fuses. Return your vehicle to an ARGO dealer for inspection of the electrical circuit if a fuse blows repeatedly.

7.1.4 SPARK PLUGS

Remove and inspect the spark plugs after every 100 hours of operation. Clean the plugs and reset the gap as detailed in the engine owner’s manual.

Replace the spark plugs if the electrodes are corroded or damaged or if the insulator is cracked. Use the correct plug for the engine as detailed in the engine owner’s manual.

Re-install the spark plugs carefully, taking care to start the threads properly. Torque the plugs to 10 - 15 ft. lbs (14 to 20 N·m). Do not over tighten.

7.1.5 SPARK ARRESTER

Cleaning the Spark Arrester

CAUTION

After operating the engine, do not touch any part of the exhaust system until it has had sufficient time to cool!

1. Keep a record of the number of hours of engine use. The spark arrester should be removed, cleaned and inspected every 50 hours of operation.

2. Remove the tail pipe assembly by disconnecting the springs from the muffler attached to the tail pipe.

3. The screen-type spark arrester assembly is located inside the tail pipe. It is fastened with one (1) slotted washer-head hex screw and one (1) internal tooth lockwasher. Find the screw on the side of the outlet tube.

4. Remove the screw and save it for step 8.

5. Take out the screen-type spark arrester assembly.

6. Shake loose particles out of the screen assembly.

7. Clean the screen with a wire brush. (Soak it in oil solvent if necessary.)

8. If any breaks in the screen or weldments are discovered, replace the assembly with Part No. 607-171.

9. Return the screen assembly to the tailpipe and outlet tube assembly and re-fasten it with the screw and internal tooth lock washer from Step 4.

7.2 DRIVE SYSTEM & TIRES

WARNING

Do not attempt to adjust, repair or replace the drive belt, clutches or any moving part while the engine is running. Doing so will cause injury. Before servicing the vehicle, disconnect the battery to prevent accidentally starting the engine.

Keep the engine compartment hood, clutch guard and firewall securely in place when the engine is running. Severe injury can result if the drive belt, clutch components or other moving parts come loose.

If engine compartment inspection is necessary while the engine is running, use EXTREME CAUTION! Keep engine RPM low. Avoid standing directly in line with moving components. Use a mirror to view the components.

7.2.1 DRIVE BELT

The drive belt transmits power from the driver clutch (on the engine) to the driven clutch (on the transmission). These components are located on the left side of the engine compartment (Figure 7-2).

Figure 7-2. Location of drive clutches and drive belt.
SECTION 7
MAINTENANCE INFORMATION

Check the drive belt after every 25 hours of operation, or whenever there is a noticeable reduction in clutch performance. Replace the belt when:

- the top width of the belt has worn to 1-1/16" (27mm)
- cracks, fraying or shredding is apparent
- it becomes contaminated with oil or some other fluid

Refer to the ARGO Parts Manual for correct drive belt part number.

Drive Belt Adjustment

To extend the life of the drive belt, the INVANCE driven clutch allows for some adjustment to reset the belt height if necessary. If belt wear causes the belt to start sitting below the sheaves at idle, adjustment can be made to bring the belt back up to flush or 1/10" above the sheaves.

1. Remove the driven clutch from the vehicle and move to a clean work bench.

2. Loosen both jam nuts located on the fixed face of the clutch. Figure 7-2a.

3. Using an allen wrench, turn the adjustment set screw either in (to lower the belt) or out (to raise the belt) between the clutch sheaves. Figure 7-2b.

IMPORTANT

Loosen set screws uniformly 1/2 turn at a time. It is crucial that the clutch faces remain true and parallel to each other around the entire circumference of the sheaves.

4. After adjustment, check belt level by placing a drive belt between the sheaves. Belt position should be anywhere from flush with the top of the sheaves, to 1/10" above. Re-tighten jam nuts and torque to 60-75 in. lbs. (7.5 +/- 1 Nm)

To Remove the Drive Belt

The Invance Driven Clutch (transmission clutch), is manufactured with a 6mm x 1.0 threaded hole in the clutch face. This hole is provided to assist in spreading the driven clutch pulleys apart by threading a 6mm x 1.0 thread bolt in through the face. This bolt should be a least 2” in length with full thread. Spreading the pulleys allows for easy removal and installation of the 127-137 (Avenger) or 127-159 (Frontier) drive belt. Figure 7-2c.
To install the Drive Belt:

⚠️ CAUTION

If this procedure is not carried out as described, the edge of the fixed face may cut or damage the drive belt.

1. Position the belt around the driver clutch first.
2. Ease the belt over the edge of the fixed face on the driven clutch and at the same time, turn the inside, movable face clockwise.

Drive Belt alignment and tension are pre-set at the factory and are not adjustable. They are critical for proper operation of the drive system. Return the vehicle to an ARGO dealer if rapid belt wear occurs.

7.2.2 CLUTCH MAINTENANCE

Disassembly and repair of the driver and driven clutch requires special tools. Return the vehicle to an authorized ARGO dealer if the clutch units need servicing. The following indicates that clutch service might be required:

- a drop in vehicle performance
- the clutch does not shift smoothly
- the clutch sticks during vehicle operation
- the drive belt wears rapidly
- the vehicle vibrates severely during operation
- the vehicle does not accelerate when the engine speed is increased with the transmission in gear
- transmission will not shift smoothly into gear at engine idle.

Clutch Inspection

Inspect the nylon sliders every 50 hours. The nylon sliders are mounted in the driven clutch moveable pulley. (Figure 7-3). When the clutch shifts, the cam moves on the nylon sliders.

Replace the nylon sliders before there is aluminum to aluminum contact between the cam and the movable pulley. Driven clutch disassembly is required to replace the nylon sliders properly. Return the vehicle to an ARGO dealer for service.

7.2.3 DRIVE CHAINS

Roller chain “stretch” results from wear to the chain pins and bushings because of the loss of lubricant.

To prevent sprocket damage and unnecessary breakdowns, replace the chains when:

- the chain tensioner can no longer take up the chain slack.
- the chain is rubbing on a frame cross member.
- the chain is seized due to rust and lack of lubrication.
- the chain climbs the sprocket teeth, especially noticeable when turning.

To remove the Drive Chains:

1. Place the gearshift in the N (neutral) position.
2. Remove the floor pans.
3. Turn the tensioner cam assembly in the direction which winds up the torsion spring and push the assembly down as close as possible to the cam follower block in the bottom of the frame. Secure it in this position with a Vice-Grip 10CR as illustrated in Figure 7-4.
4. Roll the vehicle until the connecting link on one of the chains is visible.
5. Remove the spring clip from the connecting link as shown in Figure 7-5. Remove the outside plate and tap out the connecting link. The inside plates will be released when the connecting link is removed (Figure 7-6).
6. Remove the chain from the vehicle.
7. Repeat steps 4 to 6 until all drive chains are removed.
SECTION 7
MAINTENANCE INFORMATION

To install the Drive Chains:

1. Position the drive chain over the slider block and around the drive sprockets.

2. Pull the ends of the chain together and insert the connecting link as shown in Figure 7-6 and 7-7. When connecting the RC50-2 chain, insert the inside plates before tapping the connecting link into position.

**NOTE**

*Use a pair of modified 7R Vice Grips to hold the ends of the chain together while inserting the connecting link. Some drive chains have no slack, and replacement of the connecting link is difficult without this tool. Modified Vice Grips can be ordered from your ARGO dealer (ARGO Part No. 658-08) or refer to Appendix 1 for modification information.*

3. Replace the outside plate and spring clip. The open end of the clip must face rearward when it is on top of the chain.

4. Remove the vice-grips securing the cam assembly in its lowest position.

5. Repeat steps 1 to 4 until all chains are replaced.

The chain tensioning system on all models consists of a torsion spring loaded cam assembly with a slider block which takes up the slack on the bottom side of all but the front final drive chains. As the chain wears, the chain tensioning mechanism adjusts semi-automatically. Under most conditions, the tensioner cam assembly will move to the next step of adjustment simply due to normal drive system dynamics. Sometimes, however, the cam assembly can bind due to debris caught in the area. IT IS VERY IMPORTANT TO CHECK THAT THE
CAM ASSEMBLY IS PROGRESSING PROPERLY. CHECK FOR PROPER CHAIN TENSIONER OPERATION EVERY 10 HOURS OF VEHICLE OPERATION, WHEN THE DRIVE CHAINS ARE BEING LUBRICATED. Each step of the cam takes up about 3 inches of chain slack (see Fig. 7-8).

The tensioner cannot progress to the next step until there is enough slack in the chain. With the wheels raised off the ground, check if the chain slack exceeds 3 inches. If it does, then reach under the slider block assembly and pull up. Remove any debris that may be present in the adjuster guides.

CAUTION

Check for proper chain tensioner operation every 10 hours of vehicle operation.

Each chain tensioner has a single UHMW slider block. Inspect the UHMW slider blocks for wear every 50 hours. Replace the blocks (ARGO Part No. 606-44) when the wear groove, as shown in Figure 7-9, measures 1/4" (6mm).

To Replace a Slider Block:

1. Remove the floor pans.

2. Turn the tensioner cam assembly in the direction which winds up the torsion spring and push the assembly down as close as possible to the cam follower block across the bottom of the frame channels. Clamp it in this position with a Vice-Grip 10CR or similar plier as illustrated in Figure 7-10 and remove the drive chain.

3. With pliers, pry the slider block off the cam assembly as illustrated in Figure 7-10.

4. Place a new slider block over the shaft of the cam assembly.

5. Using a piece of wood (or similar material) pressed against the top of the slider block, carefully hammer the piece of wood so the slider block snaps onto the cam assembly shaft as shown in Figure 7-11.

6. Re-install the drive chain and remove the locking pliers securing the cam assembly in its lowest position.

7. Pull up on the cam assembly to allow it to take up as much chain slack as possible.

8. Replace the floor pans.
SECTION 7
MAINTENANCE INFORMATION

To check the idler chain adjustment, push the slack side of the chain and measure the amount of chain deflection (Figure 7-12). Adjust the idler chain tension if deflection is more than 3mm (1/8").

Idler Chain Adjustment
1. Remove the firewall from the vehicle as detailed in Section 7.3.4.
2. Loosen the 2 left side clamping nuts with a 15/16" socket wrench (figure 7-13).
3. Turn the vertical adjustment bolts counter-clockwise to raise the power pack and tighten the idler chains. The idler chains are properly adjusted when the deflection measures 3 mm (1/8"), (Figure 7-12).
4. Tighten the 2 left side clamping nuts securely. Torque to 80ft./lbs.

To Remove the Idler Chains:
Loosen the power pack clamping nuts and adjusting bolts as shown in Figure 7-13 and proceed as follows:
1. Place the gearshift in neutral and roll the vehicle until the connecting link of one of the idler chains is positioned as shown in Figure 7-14.
2. Remove the spring clip or cotter pins, depending on model, from the connecting link. Remove the outside plate and tap out the connecting link. On models that utilize a double 40 or 50 drive chain, as the connecting link is removed, the inside plates will be released (refer to Figure 7-6). Models with single 60 drive idler chains have no inside plates.
3. Remove the idler chain from the vehicle.
4. Repeat steps 1 to 3 to remove the other idler chain.

CAUTION
Do not over tighten idler chains. Premature chain wear, bearing wear or idler shaft failure can occur.
SECTION 7
MAINTENANCE INFORMATION

Figure 7-14. Position of idler chain link for removal.

To Install the Idler Chains:

1. Install the chain over the brake disc sprocket and the idler shaft sprocket.

2. Pull the ends of the chains together and insert the connecting link. Insert the inside plates before pushing the connecting link into position (double 40 or 50 chain models only).

NOTE: Use a pair of modified 7R Vice Grips to hold the ends of the chain together while inserting the connecting link. There may be no slack in the idler chain, making installation of the connecting link difficult without this tool. Modified Vice Grips can be ordered from your ARGO dealer (ARGO Part No. 658-08) or refer to Appendix 1 for modification information.

3. Replace the outside plate and spring clip as shown in Figure 7-5. Note: These models are secured with (2) cotter pins. Always use new cotter pins.

4. Repeat steps 1 to 3 to replace the other idler chain.

7.2.6 TIRE INFLATION

Improperly inflated tires can cause the vehicle to pull to one side, requiring constant steering correction. Suggested inflation is based on the type of rim in the wheel, and are listed below.

<table>
<thead>
<tr>
<th>Rim Type</th>
<th>Suggested Inflation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard 8&quot; Steel Rim</td>
<td>2.5 to 3.5 psi (17 to 24 kPa)</td>
</tr>
<tr>
<td>Standard 9&quot; Steel Rim</td>
<td>2.5 to 3.5 psi (17 to 24 kPa)</td>
</tr>
<tr>
<td>Offset 9&quot; Steel Rim</td>
<td>2.5 to 3.5 psi (17 to 24 kPa)</td>
</tr>
<tr>
<td>Offset 9&quot; Aluminum Beadlock Rim</td>
<td>1.5 to 3.5 psi (10 to 24 kPa)</td>
</tr>
</tbody>
</table>

The maximum operating pressure for all tires is 7.0 psi (48 kPa).

A special low pressure tire gauge (ARGO Part No. 619-10) is available from your ARGO dealer.

CHANGING TIRE PRESSURE FOR DIFFERENT TERRAIN CONDITIONS

The tire pressure should be adjusted according to differences in terrain. Observance of these guidelines will lead to less wear & tear on both vehicle and tires. The operator should equip the vehicle with a low pressure tire gauge (Part No. 619-10) and with a hand pump.

RECOMMENDED GUIDELINES for TERRAIN

<table>
<thead>
<tr>
<th>Terrain Type</th>
<th>Recommended Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soft Ground:</td>
<td>Low Pressure</td>
</tr>
<tr>
<td></td>
<td>• On soft terrain, use lower pressure</td>
</tr>
<tr>
<td>Hard Ground:</td>
<td>Higher Pressure</td>
</tr>
<tr>
<td></td>
<td>• On hard terrain and water, use higher pressure</td>
</tr>
<tr>
<td>Rocky Ground:</td>
<td>Highest Pressure</td>
</tr>
<tr>
<td></td>
<td>• On rough or rocky terrain, fill to, but not more than the recommended range indicated on the tire sidewall</td>
</tr>
</tbody>
</table>

This will reduce the possibility of tires and rims being damaged during heavy duty applications.

It is also important to observe the recommended load capacities of your vehicle when travelling on different kinds of terrain. For load capacities of your particular vehicle, see Section 1 of General Information in this operators guide.

IMPORTANT

It is ultimately the responsibility of the operator to determine a SAFE MAXIMUM load capacity in accordance with the driving terrain, conditions and vehicle specifications.

7.2.7 TIRE REPAIR AND REPLACEMENT

Standard Tire:

Repair a flat tire by removing the tire completely from the rim. Proper tire changing equipment is necessary to remove and remount the tire. Your authorized ARGO dealer will have the necessary tools.

Apply a radial tire patch on the inside of the tire over the puncture or hole.

Remount the tire on the rim using a bead lubricant such as Murphy’s Tire & Tube Mounting Compound. Spoon the tire
onto the rim to prevent tire bead area damage. THE TIRE MAY EXPLODE IF OVER-INFLATED. Place the tire and rim assembly in a protective cage to inflate and to seat the beads. Never inflate over 32 psi (220 kPa) to seat the bead. Once both beads are seated, deflate to 2.5 to 3.5 psi (17 to 24 kPa), 7 psi (48 kPa) maximum operating pressure. A special, low pressure tire gauge (ARGO Part No. 619-10) is available from your ARGO dealer.

Replace badly worn or damaged tires with original equipment Argo tires. Consult your ARGO dealer if in doubt. Any other tires (size, type or tread pattern), will affect the skid steering characteristics of the vehicle and may cause vehicle damage.

ARGO track systems are designed for use ONLY with original equipment Goodyear, Carlisle or ARGO tires.

**Bead Lock Tire and Rim Assembly**

Before assembling a new tire to the bead lock rim, check both valve stems for any damage. Ensure rim beads are free and clean of any dirt/debris that might cause leakage due to poor seating. Secure the rim tightly before proceeding with tire installation. Figure 7-15.

Apply tire bead lube around the perimeter of both tire beads Figure 7-16.

Install tire to rim, pushing bead over rim lip. Figure 7-17.

**Figure 7-15. Bead lock rim.**

**Figure 7-16. Apply tire bead lube.**

Install (10) fasteners to all locations around tire/rim assembly and torque to 7.2 ft.lbs (10 Nm). Torque in a cross pattern sequence. Do NOT over-torque. Figure 7-19.

**Figure 7-19. Install fasteners.**

Ensure the tire bead is seated properly into the rim lip around the entire perimeter of the rim (see Figure 7-15), before placing the rim ring into position to the top of the tire bead. Align machined edges of rim ring with machined edges of rim. Figure 7-18.

**Figure 7-18. Align rim ring with rim.**

Turn rim over and spoon tire onto lip of opposite side. Figure 20. Place second rim ring into position as described in previous

**Figure 7-17. Install tire to rim.**

**Figure 7-18. Align rim ring with rim.**

**Figure 7-19. Install fasteners.**
steps and install fasteners. Torque to 7.2 ft.lbs. (10Nm). Fill to 10 psi and check for leaks. Set final air pressure to 1.5 - 2.0 psi.

**7.2.8 AXLE BEARING MOUNTING**

The axles are mounted to the Argo using special cork gaskets between the flanged bearings and the outside surface of the lower body (see Figure 7-21). During the initial run-in period, the gasket material may relax causing the nuts to loosen slightly. These should be checked and re-tightened after initial 8 hours of use and then after every 100 hours. See Figure 7-16.

![Figure 7-21. Bearing Flange and Cork Gasket](image)

**7.3 HYDRAULIC BRAKES**

**7.3.1 GENERAL**

Although the hydraulic brake system is self adjusting, the following require periodic attention:

**7.3.2 BRAKE FLUID LEVEL**

After every 50 hours of operation, check the brake fluid level by removing the master cylinder covers.

**IMPORTANT**

Thoroughly clean the master cylinder cover and surrounding area before removal.

The master cylinders are mounted tilted slightly back. When adding fluid, fill until the shallowest end of the fluid level in the well is approximately 1/2" from the top lip of the master cylinder (Figure 7-23).

If the brake fluid is below this level:

1. Add only fresh clean SILICONE - DOT 5 BRAKE FLUID (ARGO Part No. 126-19) to the correct level.
2. Replace the cover on each master cylinder, making sure the rubber gaskets are properly seated before tightening the cover screws. Tighten snug by hand only.
SECTION 7
MAINTENANCE INFORMATION

To remove the firewall:

Note: Remove floor pan first.

1. Turn the firewall release catch(es) (located at the top of the firewall) counter-clockwise 1/4 turn.
2. Pull the top of the firewall rearward moving the throttle cable clear of the area at the steering column that it is routed through. Push the rubber gear shift boot back into the engine compartment.
3. Lift the firewall clear of the driving compartment.

Brake Pad Inspection Procedure

With the firewall removed, both hydraulic brake calipers are visible. Each caliper has 2 brake pads which are secured by cotter pins (Figure 7-25). Inspect all 4 brake pads.

Replace the pads when:

• the brake lining material molded to each metal backing plate is worn to 0.10" thickness. (Figure 7-24).
• the pads are glazed and brake performance is affected.
• the pads are contaminated with lubricant, and brake performance is affected.

To replace the brake pads:

Brake pads are easily replaced by removing the 2 cotter pins securing them within the brake caliper assembly and pulling each pad up and out of the caliper. See Figure 7-19. Pistons have to be pushed back in first, to allow clearance for the new pads. Slip the new pads into the caliper and install 2 new cotter pins bending the ends over to secure the pads in position. Pump the steering handle bar a few times to the left and to the right to build up proper pressure and to locate the pads in the caliper assembly.

CAUTION

Do not overfill the brake master cylinders. Overfilling can cause seal damage.

Use only SILICONE - DOT5 BRAKE FLUID. Other brake fluid is not compatible with ARGO brake components and operating temperatures. Use of other fluids will void the warranty and may cause loss of brakes or steering.

7.3.3 CHANGING BRAKE FLUID

The inherent stability of Silicone DOT 5 Brake Fluid reduces the need for frequent brake fluid replacement. Inspect the fluid for degradation (discolouration or particles) during normal fluid level inspections. If discolouration has occurred, the brake fluid system should be drained, flushed and refilled with fresh brake fluid. If particles are evident in the fluid, drain the system, overhaul the master cylinder and the brake caliper before flushing and refilling. An ARGO dealer will perform these operations for you.

NOTE

Spilled brake fluid is environmentally damaging. Proper disposal is required.

7.3.4 HYDRAULIC BRAKE PAD INSPECTION

Inspect the brake pads after every 25 hours of operation. Worn, glazed or contaminated brake pads affect the efficiency of the brake system. To inspect the pads, first remove the firewall.

Figure 7-23. Hydraulic brake cylinder and fluid level

Figure 7-24. Brake pad wear, hydraulic brakes.
SECTION 7
MAINTENANCE INFORMATION

Handbrake Inspection

The models featuring the Admiral transmission are equipped with a hydraulic handbrake system. This consists of an independent set of hydraulic brake calipers and brake discs. The master cylinder is mounted on the left side steering bar. Figure 7-26.

Brake Pad Inspection Procedure

Inspect the brake pads after every 25 hours of operation. Worn, glazed or contaminated brake pads affect the efficiency of the brake system. To inspect the pads, first remove the firewall.

To remove the firewall:

1. Remove the front floor pan and turn the firewall release catches (located at the top of the firewall) counterclockwise 1/4 turn.

2. Pull the top of the firewall rearward moving the throttle cable clear of the area at the steering column that it is routed through. Push the rubber gear shift boot back into the engine compartment.

3. Lift the firewall clear of the driving compartment.

With the firewall removed, both handbrake hydraulic brake calipers are visible. Each caliper has 2 brake pads which are secured by (2) 3/8” Socket Head bolts. Inspect all 4 brake pads.

Replace the pads when:

- the brake lining material molded to each metal backing plate is worn to 0.035” (1/32”) thickness. (Figure 7-27).
- the pads are glazed and brake performance is affected.
- the pads are contaminated with lubricant, and brake performance is affected.

To replace the firewall:

1. Position the firewall in the driving compartment.

2. Slide in the bottom of the firewall first and route the throttle cable through the open area at the steering column.

Monitor the hand brake fluid on a regular basis. The master cylinder reservoir is translucent and the fluid level is visible to the eye without removing the cover. Ensure the level is to the “top” level mark. Figure 7-26.

Inspect all brake hoses and brake fittings at both hand brake and hydraulic calipers for any signs of brake fluid leaks.

IMPORTANT: If the cover needs to be removed to replenish or service the system, thoroughly clean the cover and surrounding area before removing to avoid any contamination to the brake system.

Figure 7-25. Removing the brake pads from the brake caliper.

Figure 7-26. Hydraulic handbrake levels

Figure 7-27. Brake pad wear, hydraulic handbrake pads

Figure 7-26. Hydraulic handbrake levels
3. Push in the top of firewall up against the tabs located on the left and right hand side of the dash support.

4. Line up the firewall release catch with the mounting clasp on the frame and turn clockwise 1/4 turn to lock.

5. Reinstall the shifting lever boot.

**WARNING**

*Do NOT operate the ARGO with the firewall removed.*

Service Brake Bedding in Procedure

Bedding in of the service brakes is recommended by the brake pad manufacturer to obtain maximum performance and wear from the brake pads. When new service brake pads have been installed, the following procedure will need to be completed. Please include this procedure immediately after service pads have been replaced.

1. Ensure that the service brake system has been bled to provide maximum braking.

2. For this procedure select an area that is open and flat, such as an empty parking lot.

3. Drive the Argo at a speed of approximately 20kph. While continuing to apply throttle, gradually apply the service brake, slowing your speed down to 10kph, then release the brake and accelerate back to 20kph. Do not bring the Argo to a full stop (unless required for safety reasons). **Bringing the Argo to a full stop when the brakes are hot may cause the brake pad to imprint itself on the rotor. If this happens it will cause vibration and poor brake performance.**

4. Repeat step 3 a total of 10 times. Do not wait between cycles to let brakes cool.

**CAUTION**

*Brake components will be extremely hot at this point.*

After the 10 cycles are complete, shut down the Argo and allow the brakes to cool down. When brakes have cooled, repeat steps 3 and 4. The bedding procedure is now complete. The brakes may smell, and some smoke could be present.

7.3.5 HAND BRAKE ADJUSTMENT

The brake system has been factory adjusted to ensure proper braking effectiveness. However, **before the vehicle is used for the first time**, and after every 25 hours of operation, the adjustment of the brake must be inspected.

**WARNING**

The use of an improperly adjusted brake is a serious hazard, and could lead to vehicle damage or personal injury.

The lockable holding portion of the brake system is not a parking brake, and therefore is not designed to hold the vehicle in place for long periods of time. The holding brake is for short term use only.

When parking on an incline, engage the holding brake lever pin, leave the vehicle in gear, turn the engine off and block the vehicle's wheels.

The hand brake lever should be adjusted such that when squeezed and locked into position, it is capable of holding the vehicle from rolling on a grade. It should also ensure a good braking response when applied to stop the vehicle during normal operation. Loosen the locking jam nut at the adjustment end of the brake cable and thread the adjustment "OUT" to decrease brake lever travel and provide more braking action or "IN" to increase brake lever travel and less braking action. Retighten the jam nut.

**CAUTION**

*If the holding brake system is too tight, excessive pressure in the brake system will damage the seals.*

7.3.6 EMERGENCY/PARKING BRAKE ADJUSTMENT

Adjusting the Emergency/Parking Brake

There are 8 positions on the hand brake lever. The cable should be adjusted to have the 5th position (click) as fully engaged with normal firm effort (extra effort required for 6th). A properly adjusted cable with the hand lever fully down should allow the parking brake disk to turn easily between the pads while rocking the vehicle slightly back and forth. If the cable is too tight the brake will be engaged and the operator may experience a sluggish vehicle and cause the pads to wear prematurely. If the 5th position (click) does not provide full engagement with normal firm effort (extra effort for the 6th) adjust the cable accordingly. Loosen the jam nut at the caliper and adjust as needed. Reduce distance "A" to provide more braking force or increase distance "A" if brake does not turn freely. Figure 7-28.
SECTION 7
MAINTENANCE INFORMATION

The emergency/parking brake system has been factory adjusted to ensure proper braking effectiveness. However, before the vehicle is used for the first time, and after every 25 hours of operation, the adjustment of the brake must be inspected.

**WARNING**

The use of an improperly adjusted emergency/parking brake is a serious hazard, and could lead to vehicle damage or personal injury.

The hand brake lever should be adjusted such that when pulled up firmly it is capable of holding the vehicle from rolling on a grade. It should also ensure a good braking response when applied to stop the vehicle during normal operation.

**CAUTION**

If the emergency/parking brake system is adjusted too tight when the lever is in the down position, overheating of the brake system will occur due to drag between brake pads and brake discs.

Adjusting the Emergency/Parking Brake

1. Remove the firewall.
2. Ensure the parking brake lever is fully down.
3. Locate the 850-72 Parking Brake Adjustment Bracket attached to the top of the transmission. Figure 7-29. Adjust to remove any slack in the cable that may be present between the brake lever, and the brake cams at the emergency/parking brake calipers. This may require physically pulling down on the equalizer flat bar to ensure all slack is eliminated. See Figure 7-30.

4. Adjust the cable at the transmission until the cam levers are actually starting to pre-load the return springs and the

---

Figure 7-28. Adjusting the parking brake.

Figure 7-29. Location of Bracket

Figure 7-30. Equalizer Flat Bar.
cam lever actuation pin on the caliper, is centered in the "v-grove" of the cam. Figure 7-31.

5. Locate the castle nut at the mechanical brake cam lever and remove the cotter pin. Figure 7-32.

6. Loosen the castle nut until it can be threaded by hand.

7. Using a 0.004" feeler gauge or a piece of regular photo copy paper (such as used for these instructions), slip it between the emergency/parking brake pad and brake disc. Ensure that you push the opposite side pad up against the brake disc before setting this gap.

8. Slowly hand tighten the castle nut until the feeler gauge (or piece of paper), becomes snug between the pad and brake disc.

9. Back off the castle just enough for a new cotter pin to be installed. The feeler gauge (or piece of paper), should pull out at this point with just the slightest bit of resistance.

10. Lock down jam nuts at the parking brake adjustment bracket on the transmission.

11. Check to ensure that the brakes are NOT engaged when the Brake Lever is in the down & off position.

12. Check for drag by driving without activating any brakes for about 100 feet. Stop and check for heat on the brake discs. They should both be cool (or no hotter than the beginning of the test). Adjust if necessary.

13. Check the effectiveness of the parking brake by parking the Argo on the steepest hill encountered and by loading to it’s maximum working load. The parking brake should hold the Argo from moving.

14. Check the effectiveness of the emergency brake by activating it while coasting down a slight grade. The Argo should come to a controlled stop without pulling left or right. Re-adjust the brakes if necessary.

15. The emergency/parking brake should be checked for proper adjustment every 25 hours. Note: Oil on the brake disc caused by improper chain oiling can permanently reduce the effectiveness of all brake systems.

850-98 Emergency/Parking Brake Kit is available for servicing of the emergency/parking brake pads. The kit includes all necessary components and detailed servicing instructions.

**NOTE**

Both left and right hand side emergency/parking brake caliper pads should be changed in pairs. Do not attempt to just replace one side.

7.3.7 BRAKE PLUNGER ADJUSTMENT

**IMPORTANT**

It is critical that the master cylinder pistons are adjusted properly when the steering handlebars are in the centred position. Overheating of the brake system could occur due to the piston being adjusted too far in. This could cause a drag on the system and a possible brake lockup or brake fade. On the other hand, the piston being adjusted too far out increases the distance the piston is required to travel to provide brake pressure. This can result in the steering arm contacting and/or bending the plunger pin guide tab resulting in compromised system operation.

1. Remove the firewall.

2. Locate collars on plunger pins. Loosen off set screws until collars freely move on the plunger pins.
SECTION 7
MAINTENANCE INFORMATION

3. While holding the steering bar parallel to the dash, slide each collar up tight against collar stop tabs and secure the set screw using Blue Loctite #243.

4. Loosen jam nut on adjustable plunger pin to allow for adjustment. Thread the plunger pin “in” (shortening it), allowing the master cylinder plunger piston to come back and firmly rest against the installed retaining ring in the bore. Once the plunger piston is firmly against the retaining ring, thread the adjustable pin "out" (lengthen it) until it is firmly sitting in the pocket of the plunger piston, but not pushing it in. Turn 1/4 turn further "out" to ensure it is seated into the pocket. Re-tighten jam nuts on plunger pins and reinstall rubber boots.

Coolant Recommendations - Kohler Aegis

Use equal parts of ethylene glycol (anti-freeze) and water only. Distilled or deionized water is recommended, especially in areas where the water contains a high mineral content. Propylene glycol based anti-freeze is not recommended.

This mixture will provide protection from -37º C (-34º F) to 108º C (226º F). For protection and use outside the indicated temperature limits, follow the anti-freeze manufacturers instructions on the container, but do not exceed 70% anti-freeze.

DO NOT use anti-freeze with stop-leak additive(s), or put any other additives in the cooling system.

Type: Permanent type of anti-freeze; green coloured
Mixed Ratio: 50% mixed
Freezing Point: -35º C (-31º F)

Coolant Capacity
ELH775 2 L (2.18 U.S. qt)

WARNING

If the vehicle is equipped with an enclosed cab of any sort, make sure there is plenty of ventilation to avoid exposure to exhaust and engine fumes. Engine exhaust contains carbon monoxide; an odourless, colourless toxic gas that will cause serious personal injury or death. Inspect the exhaust system periodically for worn or damaged components. Listen for a change in exhaust or engine noise that may indicate a dangerous exhaust leak. If a leak is detected, have the exhaust system repaired immediately before further use.

Check the area around the exhaust system periodically for accumulated debris, particularly when travelling through dry vegetation. Failure to inspect and clean the exhaust system on a regular basis may create a fire hazard.

The tail pipe exiting through the left side of the upper body becomes very hot when the vehicle is operated. DO NOT ALLOW ANYONE TO TOUCH THE EXHAUST COMPONENTS. A SEVERE BURN CAN RESULT.

NOTE

An annual complete check over of your ARGO vehicle is recommended. This will reduce maintenance costs over the life of your vehicle and ensure it will function properly during use periods.
### SECTION 7
MAINTENANCE INFORMATION

#### 7.4 DAILY CHECKLIST - Minimum Recommendation

<table>
<thead>
<tr>
<th>34-100 / S Models</th>
<th>34-200 / ST models</th>
<th>FRONTIER</th>
</tr>
</thead>
<tbody>
<tr>
<td>♦ Check/Clean Air Intake Screen</td>
<td>♦ Check/Clean Air Intake Screen</td>
<td>♦ Check/Clean Air Intake Screen</td>
</tr>
<tr>
<td>♦ Check/Clean Exhaust Screen</td>
<td>♦ Check/Clean Exhaust Screen</td>
<td>♦ Check/Clean Exhaust Screen</td>
</tr>
<tr>
<td>♦ Check Parking/Emergency Brake (Cable Inspection)</td>
<td>♦ Check/Parking/Emergency Brake (Cable Inspection)</td>
<td>♦ Check Parking/Emergency Brake (Cable Inspection)</td>
</tr>
<tr>
<td>♦ Check Handbrake (Cable Inspection)</td>
<td>♦ Check/Hi-Lo Shifter (Cable Inspection)</td>
<td>♦ Check Handbrake (Cable Inspection)</td>
</tr>
<tr>
<td>♦ Check Coolant Level</td>
<td>♦ Check/Fuel Level</td>
<td>♦ Check Fuel Level</td>
</tr>
<tr>
<td>♦ Check Fuel Level</td>
<td>♦ Check Coolant Level</td>
<td>♦ Check Coolant Level</td>
</tr>
<tr>
<td>♦ Check Tire Inflation</td>
<td>♦ Check Fuel Level</td>
<td>♦ Check Tire Inflation</td>
</tr>
<tr>
<td>♦ Check Oils (Engine &amp; Transmission)</td>
<td>♦ Check Tire Inflation</td>
<td>♦ Check Oils (Engine &amp; Transmission)</td>
</tr>
<tr>
<td>♦ Check Throttle Cable Operation</td>
<td>♦ Check Oil (Engine &amp; Transmission)</td>
<td>♦ Check Throttle Cable Operation</td>
</tr>
<tr>
<td>♦ Check Drain Plug Installation</td>
<td>♦ Check Throttle Cable Operation</td>
<td>♦ Check Drain Plug Installation</td>
</tr>
<tr>
<td>♦ Check Electrical, Lights, Wiring, Horn (if equipped)</td>
<td>♦ Check Drain Plug Installation</td>
<td>♦ Check Electrical, Lights, Wiring, Horn (if equipped)</td>
</tr>
<tr>
<td>♦ Check/Clean Hood Screen</td>
<td>♦ Check Electrical, Lights, Wiring, Horn (if equipped)</td>
<td>♦ Check/Clean Hood Screen</td>
</tr>
</tbody>
</table>

**All models:** Check and inspect all accessories for proper fit and performance.
## SECTION 7
MAINTENANCE INFORMATION

### 20/20 SERVICE CHART
**20-POINT INSPECTION AFTER 20 HOURS OF OPERATION**

<table>
<thead>
<tr>
<th>Task</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Change engine oil and filter</td>
<td>✓ Clean battery posts/top of electrolyte/checking charging system operation</td>
</tr>
<tr>
<td>✓ Inspect air filter</td>
<td>✓ Check engine idle speed &amp; top no load RPM, adjust as required</td>
</tr>
<tr>
<td>✓ Change transmission oil</td>
<td>✓ Adjust parking brake cable</td>
</tr>
<tr>
<td>✓ Inspect and adjust chain tensioners</td>
<td>✓ Inspect fuel system and filter</td>
</tr>
<tr>
<td>✓ Inspect steering and stopping brake operation</td>
<td>✓ Inspect CVT’s &amp; belt. Adjust secondary clutch as required</td>
</tr>
<tr>
<td>✓ Check tightness of all bearing and sprocket set screws</td>
<td>✓ Re-torque axle bearing and extension bolts</td>
</tr>
<tr>
<td>✓ Grease inner, outer &amp; output shaft bearings</td>
<td>✓ Adjust steering plunger pins if required</td>
</tr>
<tr>
<td>✓ Lubricate drive chains, inspect and adjust idler chains (if equipped)</td>
<td>✓ Operational check of all Argo Accessories</td>
</tr>
<tr>
<td>✓ Inspect and clean air intake, check lubricant (if equipped)</td>
<td></td>
</tr>
<tr>
<td>✓ Inspect electrical system</td>
<td></td>
</tr>
<tr>
<td>✓ Inspect lower body and skid plate</td>
<td></td>
</tr>
<tr>
<td>✓ Adjust and set tire pressures</td>
<td></td>
</tr>
</tbody>
</table>

### 100/12 SERVICE CHART
**100 HOURS OR ONCE-A-YEAR SERVICE**

<table>
<thead>
<tr>
<th>Task</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Change engine oil and filter</td>
<td>✓ Inspect CVT’s &amp; belt. Adjust secondary clutch as required</td>
</tr>
<tr>
<td>✓ Inspect air filter</td>
<td>✓ Re-torque axle bearing and extension bolts</td>
</tr>
<tr>
<td>✓ Change transmission oil</td>
<td>✓ Adjust steering plunger pins if required</td>
</tr>
<tr>
<td>✓ Inspect and adjust chain tensioners</td>
<td>✓ Operational check of all Argo Accessories</td>
</tr>
<tr>
<td>✓ Inspect steering and stopping brake operation</td>
<td>✓ Change primary air filter</td>
</tr>
<tr>
<td>✓ Check tightness of all bearing and sprocket set screws</td>
<td>✓ Inspect secondary air filter</td>
</tr>
<tr>
<td>✓ Grease inner, outer &amp; output shaft bearings</td>
<td>✓ Clean pre-filter screen (air cooled models)</td>
</tr>
<tr>
<td>✓ Lubricate drive chains, inspect and adjust idler chains (if equipped)</td>
<td>✓ Degrease/clean drive chains and re-lubricate</td>
</tr>
<tr>
<td>✓ Inspect and clean air intake, check lubricant (if equipped)</td>
<td>✓ Inspect all bearings for wear</td>
</tr>
<tr>
<td>✓ Inspect electrical system</td>
<td>✓ Inspect lower body / skid plate for damage</td>
</tr>
<tr>
<td>✓ Inspect lower body and skid plate</td>
<td>✓ Inspect drain plug seal</td>
</tr>
<tr>
<td>✓ Adjust and set tire pressures</td>
<td>✓ De-grease and power wash vehicle</td>
</tr>
<tr>
<td>✓ Clean battery posts/top of electrolyte/checking charging system operation</td>
<td>✓ Replace fuel filter</td>
</tr>
<tr>
<td>✓ Check engine idle speed &amp; top no load RPM, adjust as required</td>
<td>✓ Replace spark plugs</td>
</tr>
<tr>
<td>✓ Adjust parking brake cable</td>
<td>✓ Inspect chain slider blocks</td>
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<tr>
<td>✓ Inspect fuel system and filter</td>
<td>✓ Clean and inspect spark arrester</td>
</tr>
<tr>
<td></td>
<td>✓ Inspect sprockets for wear</td>
</tr>
<tr>
<td></td>
<td>✓ Check and adjust fan belt if necessary</td>
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</table>
### SECTION 7
MAINTENANCE INFORMATION

<table>
<thead>
<tr>
<th>BEFORE EACH USE</th>
<th>AFTER INITIAL</th>
<th>EVERY</th>
<th>SECTION REF.</th>
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<tr>
<td></td>
<td>2hrs. 8hrs. 20hrs.</td>
<td>10hrs. 25hrs. 50hrs. 100hrs. 250hrs.</td>
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<td>Check coolant level (Kohler Aegis engine)</td>
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<tr>
<td>Check fan belt tension (Kohler Aegis engine)</td>
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<tr>
<td>Check fuel level</td>
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<td>2.2</td>
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<tr>
<td>Check tire inflation</td>
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<td>7.2.6</td>
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<tr>
<td>Check twist grip throttle operation</td>
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<tr>
<td>Check handlebar travel</td>
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<tr>
<td>Check engine intake/exhaust for obstructions</td>
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<td>Check that drain plugs are in place</td>
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<td>Check engine oil level</td>
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<td>Change engine oil &amp; oil filter</td>
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<td>Check transmission oil level</td>
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<td>6.2.1</td>
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<tr>
<td>Change transmission oil</td>
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<td>Clean air pre-cleaner (Kohler air-cooled only)</td>
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<td>Check clean/replace air filter</td>
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<td>Replace fuel filter (Kohler high pressure every 1000 hrs.)</td>
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<td>Service driver &amp; driven clutch</td>
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<td>6.4.2</td>
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<td>Lubricate drive chains</td>
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<td>6.4.3</td>
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<td>Remove, clean &amp; lube drive chains</td>
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<td>Lubricate idler chains (if equipped)</td>
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<td>Remove, clean &amp; lube idler chains (if equipped)</td>
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<td>Lubricate outer axle bearings</td>
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<td>Check battery fluid level &amp; caps</td>
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<td>Clean battery terminals &amp; connections</td>
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<td>7.1.2</td>
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<tr>
<td>Clean battery</td>
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<td>X</td>
<td>7.1.2</td>
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<tr>
<td>Clean, adjust/replace spark plugs</td>
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<td>7.1.4</td>
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<td>Check the drive belt</td>
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<td>Check nylon sliders - driven clutch</td>
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<td></td>
<td>7.2.2</td>
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<td>Check sliders - chain take-up system</td>
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<td>X</td>
<td>7.2.4</td>
</tr>
<tr>
<td>Check &amp; adjust idler chains</td>
<td>X</td>
<td>X</td>
<td>7.2.5</td>
</tr>
<tr>
<td>Inspect brake pads</td>
<td>X</td>
<td></td>
<td>7.3.4</td>
</tr>
<tr>
<td>Inspect/adjust emergency/parking brake</td>
<td>X</td>
<td></td>
<td>7.3.5</td>
</tr>
<tr>
<td>Check hydraulic brake fluid level/condition</td>
<td>X</td>
<td></td>
<td>7.3.2</td>
</tr>
<tr>
<td>Check fuel tank connections/lines</td>
<td>X</td>
<td></td>
<td>7.2.3</td>
</tr>
<tr>
<td>Inspect wiring harness</td>
<td>X</td>
<td></td>
<td>7.2.8</td>
</tr>
<tr>
<td>Tighten bearing extension bolts</td>
<td>X</td>
<td>X</td>
<td>7.1.5</td>
</tr>
<tr>
<td>Clean out spark arrester</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The intervals shown on the schedule are based on average operating conditions. Vehicles which are subjected to severe use and wet or dusty conditions will require more frequent servicing. Use only Argo replacement parts to ensure safe operation of the vehicle and to comply with the warranty coverage.

**We strongly recommend that an Argo Dealer perform a complete check-over of your vehicle after the initial 20 hours of operation, then once each year. This will reduce maintenance costs over the life of your vehicle.**
### SECTION 8
#### TROUBLE SHOOTING

<table>
<thead>
<tr>
<th>MALFUNCTION (SYMPTOM)</th>
<th>PROBABLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
</table>
| **Electric starter inoperative** | 1. Loose electrical connections  
2. Battery charge low or dead  
3. Faulty starter motor | 1. Clean and re-tighten electrical connections  
2. Recharge battery or replace as necessary  
3. Return the vehicle to an Argo dealer for servicing |
| **Engine turns over but will not start** | 1. Fuel tank is empty  
2. Blocked fuel or air filter  
3. Spark plugs defective or fouled  
4. Ignition system inoperative  
5. Insufficient compression | 1. Refill tank  
2. Remove obstruction or replace filter as necessary  
3. Clean and re-gap or replace  
4. Have unit serviced by a properly trained and equipped mechanic  
5. Take the vehicle to a factory authorized engine repair outlet |
| **Engine will not run** | | 1. Refer to engine manual |
| **Vehicle will not move or turn** | 1. Transmission in neutral or not properly engaged in gear  
2. Drive belt worn (see Section 7.2.1)  
3. Clutch not engaging  
4. Transmission failure  
5. Brakes not functioning  
6. Idler chain broken  
7. Idler sprocket weld broken | 1. Place gear shift properly in gear  
2. Replace belt if worn excessively  
3. Return the vehicle to an Argo dealer for servicing  
4. Same as 3. above  
5. Adjust caliper or replace brake pads  
6. Repair or replace  
7. Have vehicle serviced by an Argo dealer |
| **Vehicle pulls to right** | 1. Right tire pressure too low  
2. Left tire pressure too high  
3. Right brake engaged  
4. Right side drive chain broken | 1. Inflate all tires to the correct pressure  
2. Same as above  
3. Make sure the handlebar is held parallel to the dash. Adjust brake assembly if required.  
4. Repair or replace |
| **Vehicle pulls to left** | 1. See “Vehicle pulls to right” - substitute right with left | |
## SECTION 8
### TROUBLE SHOOTING

<table>
<thead>
<tr>
<th>MALFUNCTION (SYMPTOM)</th>
<th>PROBABLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Severe vibration when vehicle is operated</strong></td>
<td>1. Engine loose on mounts 2. Driver or driven clutch or engine defective 3. Axle bent 4. Wheel rim bent 5. Worn or damaged drive belt</td>
<td>1. Take vehicle to an Argo dealer for service. 2. Same as above. 3. Remove and straighten or replace. 4. Replace. 5. Replace. Clutch service may be required.</td>
</tr>
<tr>
<td><strong>Water leaks into lower body</strong></td>
<td>1. Leak has developed at the axle bearing flange 2. Bearing flange seal has been damaged 3. Water is leaking in around the outer bearing flange bolts 4. Lower body is cut or punctured 5. Drain plugs not in place</td>
<td>1. Replace the bearing flange gaskets. 2. Replace the bearing flange seal. 3. Caulk under 103-81 bolt heads with silicone sealer. 4. Repair or replace vehicle lower body 5. Secure drain plugs.</td>
</tr>
<tr>
<td><strong>Tire leaks air</strong></td>
<td>1. Tire is punctured 2. Tire is not properly seated on bead 3. Position of air leak is not obvious 4. Defective valve</td>
<td>1. Remove tire from rim and repair the hole with a radial tire patch or install a tube in the tire. 2. Deflate tire and carefully push tire bead off the rim. Clean the rim bead area to remove dirt and foreign matter. Re-inflate tire. 3. Submerge tire and rim in a water tank. Air may be escaping through the rim halves or the valve stem. Repair as required. 4. Replace defective valve.</td>
</tr>
<tr>
<td><strong>Hydraulic brakes are spongy, or there is excessive handle bar travel</strong></td>
<td>1. Air in hydraulic system 2. Leak in system 3. Loose brakes</td>
<td>1. Have an Argo dealer bleed the brake 2. Have an Argo dealer check all fittings, hoses, calipers and seals for loose connections or leakage. Refill as needed. 3. Adjust or tighten.</td>
</tr>
<tr>
<td><strong>Brakes ineffective</strong></td>
<td>1. Pads have overheated and glazed 2. Pads worn beyond 0.10&quot; 3. Pads are contaminated with lubricant</td>
<td>1. Have the pads cleaned by an Argo dealer or replace pads. 2. Replace. 3. Have the pads cleaned by an Argo dealer or replace pads.</td>
</tr>
<tr>
<td><strong>There is a loud bang when the vehicle is turned right or left</strong></td>
<td>1. Idler chains worn/loose 2. Drive chains worn/loose</td>
<td>1. Adjust/replace idler chains as required. 2. Adjust/replace drive chains as required.</td>
</tr>
<tr>
<td><strong>Vehicle does not steer left or right</strong></td>
<td>1. Worn or contaminated brake pads 2. Leaking caliper or brake lines or air in system</td>
<td>1. Change pads 2. Take the vehicle to an Argo dealer for servicing</td>
</tr>
</tbody>
</table>
SECTION 9
CLEANING AND STORAGE

9.1 CLEANING THE VEHICLE

Wash the vehicle body with a household detergent and rinse with water. Flush dirt out of the lower body by using a high pressure sprayer or garden hose after removing the drain plugs. After the bottom of the vehicle is dry, lubricate the drive chains with ARGO chain Lube. Make sure the drain plugs are replaced.

9.2 STORING THE VEHICLE

When the vehicle is stored for an extended period, the following preparation is required:

Clean the Vehicle

Remove all dirt and water from the vehicle body as directed above.

Remove the drain plugs if the vehicle is not fully sheltered from the elements.

CAUTION

Any water accumulation in the vehicle will, over time, destroy chains, sprockets and bearings. Grease all bearings and flanges (refer to Section 6.4.5).

NOTE

Bearing corrosion due to inadequate preparation and lubrication for storage is the leading cause of premature bearing failure.

Drain the Fuel System

Insert a siphon hose into the gas tank through the filler neck and drain the gasoline. Start the engine and run it until all fuel in the system is consumed.

OR

Add fuel stabilizer (ARGO Part No. 127-77) to the fuel tank and fill with fresh gasoline. Run the engine for a few minutes to allow the treated fuel to reach the carburetor.

Prepare the Battery for Storage

Remove the battery from the vehicle. Clean it and charge it with a battery charger. Coat the battery terminals with a multi-purpose grease to prevent corrosion. Store the battery in a cool dry place.

WARNING

Do not store the battery near flames, sparks or any source of fire. Batteries can explode if exposed to flames or sparks, causing serious personal injury.

Recharge the battery monthly.

Protect the Electrical System

Spray the wiring harnesses and all the electrical connections with a silicone based lubricant (WD40 or equivalent) to prevent corrosion.

Carefully inspect the wiring for loose connections, bare wires or corrosion. Repair as necessary.

Raise the Vehicle

Place blocks under the front and rear of the vehicle to raise the tires off the ground. The blocks must be placed under the frame members to prevent body damage (Figure 9-1).

Figure 9-1 Correct placement of blocks

Preparing the Engine for Storage

Read the engine operator’s manual and carry out all recommended storage procedures.
SECTION 10
POTENTIAL HAZARDS

<table>
<thead>
<tr>
<th>POTENTIAL HAZARD</th>
<th>WHAT CAN HAPPEN</th>
<th>HOW TO AVOID THE HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating the Argo without reading and understanding the Operator’s Manual</td>
<td>The risk of accident is greatly increased if the operator does not know how to operate the Argo properly in different situations and on different types of terrain.</td>
<td>New or inexperienced operators should read and understand the Operator’s Manual. They should then regularly practice the operating techniques described in this Operator’s Manual.</td>
</tr>
<tr>
<td>Allowing anyone under age 16 to operate this vehicle.</td>
<td>Children under the age of 16 may not have the skills, abilities, or judgement needed to operate the Argo safely and may be involved in an accident causing severe injury or death.</td>
<td>No one under the age of 16 should be allowed to operate the Argo.</td>
</tr>
<tr>
<td>Operating or riding as a passenger in the Argo without wearing an approved motorcycle helmet, eye protection, and protective clothing.</td>
<td>Operating or driving without an approved motorcycle helmet increases the chance of severe head injury or death in the event of an accident. Operating or driving without eye protection can result in an accident and increases your chances of a severe injury in the event of an accident.</td>
<td>Wear an approved safety helmet and eye protection when driving or riding in the vehicle.</td>
</tr>
<tr>
<td>Operating the Argo after or while consuming alcohol or drugs.</td>
<td>Could seriously affect your judgement, cause you to react more slowly, and affect your balance and perception. This could result in an accident.</td>
<td>Never allow anyone under the influence of alcohol or any other intoxicating substance to drive or ride in the vehicle. Never use with drugs or alcohol.</td>
</tr>
<tr>
<td>Carrying passengers in the dump box.</td>
<td>Riders can fall off and be killed.</td>
<td>No riders in the dump box.</td>
</tr>
<tr>
<td>Carrying cargo when using the Argo in water.</td>
<td>Argo vehicles may sink if they fill with water, resulting in injury or drowning to driver and passengers. If the vehicle upsets or swamps, exposure in cold water significantly reduces the chance of survival.</td>
<td>Be especially cautious when operating a loaded vehicle (cargo and/or passengers) in water. Observe the capacity limits. Do not enter water if the vehicle is overloaded. Use extra caution when operating the Argo in cold water.</td>
</tr>
<tr>
<td>Carrying cargo in the dump box when used in water.</td>
<td>Greatly reduces your ability to balance and control the Argo in the water. Could cause an accident, including capsizing and sinking, resulting in injury or drowning to driver and passengers.</td>
<td>Do not use the dump box equipped Argo in water.</td>
</tr>
<tr>
<td>Operating the Argo in water without drain plugs properly installed.</td>
<td>Will cause the vehicle to fill with water and cause it to capsize or sink, which could result in injury or drowning to driver and passengers.</td>
<td>Always make sure the drain plugs are properly installed in the Argo as described in the Operator’s Manual.</td>
</tr>
<tr>
<td>Using the Argo to tow anything in the water other than an Argo amphibious trailer.</td>
<td>Greatly reduces your ability to balance and control the Argo in the water. Could cause an accident, including capsizing and sinking, which could result in injury or drowning to driver and passengers.</td>
<td>Never tow anything other than an Argo amphibious trailer when the Argo is used in water. Keep cargo low and centered in the trailer, especially if used in water.</td>
</tr>
<tr>
<td>Operating the Argo in rough water.</td>
<td>Greatly reduces your ability to balance and control the Argo in the water. Could cause an accident, including capsizing and sinking, which could result in injury or drowning to driver and passengers.</td>
<td>Do not attempt to navigate any body of water with a strong current. Avoid water operation under windy conditions. Do not attempt to cross large bodies of water. Stay close to shore in case of emergency and you have to leave the water.</td>
</tr>
</tbody>
</table>
# SECTION 10
## POTENTIAL HAZARDS

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</tr>
</thead>
<tbody>
<tr>
<td>Operating or driving the Argo in water without the occupants wearing an approved personal flotation device (PFD).</td>
<td>If you lose control of the Argo in water and it capsizes and sinks, the driver and passengers may be injured or drown.</td>
<td>All occupants must wear an approved personal flotation device (PFD) or life jacket while travelling in water.</td>
</tr>
<tr>
<td>Operating the Argo in water without taking along a paddle.</td>
<td>If you run out of gas or have an engine failure the Argo will not be able to move under it’s own power and you may be stranded.</td>
<td>Equip the vehicle with a paddle and bailing can.</td>
</tr>
<tr>
<td>Failure of driver and passengers to adjust positions so that the vehicle is floating level when operating the Argo in water.</td>
<td>Water may enter the vehicle and cause it to capsize or sink, which could result in injury or drowning to driver and passengers.</td>
<td>When using the Argo in water, adjust the position of cargo and passengers so the vehicle floats level.</td>
</tr>
<tr>
<td>Failure to enter the water correctly.</td>
<td>You may cause waves, which will enter the Argo and cause it to capsize or sink, which could result in injury or drowning to driver and passengers.</td>
<td>The point of entry should be free of rocks, stumps and other obstacles. Enter the water from a firm, gradual slope whenever possible. Be careful not to submerge the bumper as you enter the water.</td>
</tr>
<tr>
<td>Carrying more than specified number of people in an Argo, either on land or in water.</td>
<td>Greatly reduces ability to balance and control the Argo on both land and in the water and could cause an accident, resulting in injury or death to driver and passengers.</td>
<td>Never exceed the load capacity of the Argo as detailed in Section 1.4 of this manual.</td>
</tr>
<tr>
<td>Overloading the vehicle.</td>
<td>Heavy loads and high loads decrease the stability of the vehicle and may cause it to roll.</td>
<td>Follow the recommended load capacity for your vehicle listed in Section 1.</td>
</tr>
<tr>
<td>Overloading cargo area in 6x6.</td>
<td>Exceeding the weight limitation will decrease the stability of the vehicle on inclines and increase the possibility of rolling over backwards when climbing a grade.</td>
<td>The rear compartment capacity of all 6 wheel Argo vehicles is 65 kg (140 lbs). Do not exceed this weight in the rear compartment.</td>
</tr>
<tr>
<td>Failure to fasten seat belts if the Argo is equipped with rollover protection.</td>
<td>If the Argo overturns, the driver and passengers may be thrown from the vehicle and the roll bar or roll cage could strike them.</td>
<td>Seat belts must be properly adjusted and worn by all occupants at all times EXCEPT when operating in water.</td>
</tr>
<tr>
<td>Failure to unfasten seat belts (if the Argo is so equipped) when the vehicle is in water.</td>
<td>If the Argo capsizes or sinks the driver and passengers may be unable to unfasten their seat belts and may drown.</td>
<td>Do not use seat belts or any passenger restraining device while operating an Argo in water.</td>
</tr>
<tr>
<td>Failure to inspect the Argo before operating. Failure to properly maintain the Argo.</td>
<td>Increases the possibility of an accident or equipment damage.</td>
<td>Always inspect your Argo each time you use it to make sure it is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in this Operator’s Manual.</td>
</tr>
</tbody>
</table>
# SECTION 10
## POTENTIAL HAZARDS

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</thead>
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<tr>
<td>Operating the Argo with improper tires or with improper or uneven tire pressure.</td>
<td>Use of improper tires on the Argo, or operation of the Argo with improper or uneven tire pressure may cause loss of control increasing your risk of an accident.</td>
<td>Always use the size and type tires specified in this Operator’s Manual for this Argo. Always maintain proper tire pressure as described in this Operator’s Manual.</td>
</tr>
<tr>
<td>Operating the Argo with improper modifications.</td>
<td>Improper installation of accessories or modification of the Argo may cause changes in handling which in some situations could lead to an accident.</td>
<td>Never modify the Argo through improper installation or improper use of accessories. All parts and accessories added to this Argo should be genuine Argo components designed for use on the Argo and should be installed and used according to instructions. If you have questions, consult an authorized Argo dealer or contact Ontario Drive &amp; Gear Limited at 1-519-662-4000.</td>
</tr>
<tr>
<td>Applying brakes suddenly when going downhill.</td>
<td>Sudden braking can cause the vehicle to roll over forwards.</td>
<td>Gently apply the brakes to control downward vehicle speed. Do not jam on the brakes while travelling downhill.</td>
</tr>
<tr>
<td>Operating the Argo on paved surfaces.</td>
<td>Pavement may seriously affect handling and control.</td>
<td>Do not drive your vehicle on asphalt or concrete roadways.</td>
</tr>
<tr>
<td>Operating Argo on public streets, roads or highways.</td>
<td>A collision can occur with another vehicle.</td>
<td>Never drive on public roads.</td>
</tr>
<tr>
<td>Operating at excessive speeds.</td>
<td>Personal injury or vehicle damage may result.</td>
<td>Do not drive the vehicle at high speeds over unfamiliar or rough terrain. Never operate at speeds too fast for your skills or the conditions.</td>
</tr>
<tr>
<td>Failure to use extra care when operating the Argo on unfamiliar terrain.</td>
<td>Personal injury or vehicle damage may result.</td>
<td>Do not drive the vehicle at high speeds over unfamiliar or rough terrain.</td>
</tr>
<tr>
<td>Failure to use extra care when operating on rough, slippery or loose terrain.</td>
<td>Could cause loss of traction or vehicle control, which could result in an accident, including an overturn.</td>
<td>Do not operate on rough, slippery or loose terrain until you have learned and practised the skills necessary to control the Argo on such terrain.</td>
</tr>
<tr>
<td>Turning improperly.</td>
<td>When turning, the back of the vehicle swings to the opposite direction of the turn, creating a risk of hitting persons or objects. Sharp turns, especially at high speeds or when heavily loaded, may cause the vehicle to roll over.</td>
<td>Always take precautions when making turns to avoid rolling the vehicle or hitting persons or objects. Slow the vehicle down before making a turn. Do not apply the brakes too suddenly.</td>
</tr>
<tr>
<td>Driving on inclines with a loaded vehicle.</td>
<td>Heavy loads and high loads decrease the stability of the vehicle and may cause it to roll.</td>
<td>Use extreme CAUTION when negotiating inclines with a loaded vehicle. Be prepared to shift occupant weight and load forward or have passengers get out of the vehicle to walk up an incline.</td>
</tr>
<tr>
<td>Going downhill improperly.</td>
<td>Sudden braking can cause the vehicle to roll over forwards.</td>
<td>Avoid steep declines when possible. When a steep decline cannot be avoided, shift occupant weight to the rear of the vehicle to prevent the vehicle from rolling over.</td>
</tr>
</tbody>
</table>
## POTENTIAL HAZARDS

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<tr>
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</thead>
<tbody>
<tr>
<td>Improperly crossing hills or turning on hills.</td>
<td>Side slope operation greatly increases the risk of rolling the vehicle over sideways. Prolonged side slope operation may cause engine damage.</td>
<td>Do not drive your vehicle across the side of a hill. Observe the engine angle of operation limitations in Section 5.2.</td>
</tr>
<tr>
<td>Stalling or rolling backwards while climbing a hill.</td>
<td>Could cause loss of control which could lead to an accident including an overturn.</td>
<td>Try to avoid steep hills. Maintain steady speed when climbing a hill. If you lose all forward speed: - keep weight uphill - lean toward the hill - slowly coast backwards down the hill using the handlebar brake</td>
</tr>
<tr>
<td>Improperly operating over obstacles.</td>
<td>Personal injury or vehicle damage may result.</td>
<td>Before operating in a new area, check for obstacles. Never attempt to drive over large obstacles such as large rocks or fallen trees. When you go over obstacles always follow proper procedures as described in this Operator’s Manual.</td>
</tr>
<tr>
<td>Skidding or sliding.</td>
<td>You may lose control of the Argo. You may also regain traction unexpectedly which may cause the Argo to overturn.</td>
<td>Learn to safely control skidding or sliding by practising at slow speeds and on level, smooth terrain. On extremely slippery surfaces, such as ice, go slowly and be very cautious in order to reduce the chance of skidding or sliding out of control.</td>
</tr>
<tr>
<td>Improperly operating in reverse.</td>
<td>You could hit an obstacle or person behind you resulting in serious injury.</td>
<td>Carefully practice backing up and turning in an open area until you become accustomed to this procedure. Take precautions to avoid hitting persons or objects.</td>
</tr>
<tr>
<td>Use of the holding brake as a parking brake.</td>
<td>The holding brake system is not a parking brake, and therefore is not designed to hold the vehicle in place for long periods of time. The holding brake is for short term use only. The hydraulic brake pressure could drop over time, releasing the brakes, allowing the vehicle to roll into persons or objects, causing serious injury.</td>
<td>When parking on an incline, apply the emergency/parking brake, leave the vehicle in gear, turn the engine off and block the vehicle’s wheels.</td>
</tr>
<tr>
<td>Using the firewall to brace your knees.</td>
<td>Damage to the firewall and serious personal injury can result from the driven clutch wearing through the firewall.</td>
<td>Do not push against the firewall with your knees.</td>
</tr>
<tr>
<td>Running the engine in a closed building or confined area.</td>
<td>Engine exhaust gases contain poisonous carbon monoxide. Carbon monoxide is odourless, colourless and can cause serious injury or death.</td>
<td>Never start or run the engine in a closed building or confined area.</td>
</tr>
<tr>
<td>Adding fuel while the engine is running or hot.</td>
<td>Gasoline is extremely flammable and can explode under certain conditions, causing serious injury or death.</td>
<td>Do not add fuel while the engine is running or hot.</td>
</tr>
<tr>
<td>Filling outboard motor fuel tanks while they are in the Argo.</td>
<td>Gasoline is extremely flammable and can explode if ignited, causing serious injury or death.</td>
<td>Fill outboard motor fuel tanks outside of the vehicle. Wipe up any spilled fuel immediately. Do not carry or store fuel tanks in a vehicle equipped with a cab or convertible top unless adequate ventilation is provided.</td>
</tr>
</tbody>
</table>
SECTION 11
ACCESSORY INFORMATION

11.1 GENERAL

This section deals with accessories that have been specifically designed for the ARGO and can be purchased separately from your dealer. Special operating procedures and safety precautions must be observed before operating or using certain accessories.

11.2 CARGO TIE DOWNS (Part No. 614-06)

Cargo tie downs are intended to assist in securing a load in the rear compartment of any Argo. Use rope or elastic cords, laced over the load and through the tie down rings, to hold the load in place.

⚠️ CAUTION

Never attempt to raise the vehicle by using the tie down rings as lifting points.

⚠️ WARNING

Never exceed gross vehicle weight. Never exceed the maximum rear compartment weight for 6-wheelers (65 kg/140 lbs.).

11.3 ARGO TRACK SYSTEMS (Standard Track - Part Nos. 615-43 & 815-42K, Super Track - Part Nos. 625-43 & 825-42K & Rubber Track - Part Nos. 625-50 & 825-50-1)

There are three different types of track systems available for use with the Argo, the standard track system, the super track system and the rubber track system. Standard tracks and super tracks are similar in basic design and use the same pins and lock collars to join the segments together. However, super tracks and rubber tracks are wider than standard tracks and require axle extensions and studs assembled to each wheel hub.

The 625-50 & 825-50-1 Rubber Track Systems are NOT a segmented track. This track is installed over the existing tires and is hinged in one location only.

The track systems spread the weight of the vehicle over a larger area than the tires, thereby reducing the ground pressure and allowing the vehicle to stay on top of, rather than sinking into, soft terrain.

The segmented track design allows the replacement of only those segments that may have become damaged or worn with use.

⚠️ CAUTION

Only use track segments that show the Argo trademark. Other track systems may fail and damage axles, bearings and the final drive system.

Track segments will wear prematurely if used over pavement, gravel, rock or on any abrasive surface.

11.3.1 Assembly Instructions (Standard and Super Track)

1. Join 2 track segments together, lining up the 1/4” holes. See Fig. 11-1. Hammer a track pin through the holes, placing the lock bushing as shown in the centre space provided. When installing the track pins which hold the track segments together, alternate the direction in which the pins are pushed through the track segment holes. See Fig. 11-2.
SECTION 11
ACCESSORY INFORMATION

NOTE
Centre the track pin so that it does not stick out on either side of the track.

2. Apply a drop of blue 242 Loctite to the hole in the lock bushing and the set screw. Install the set screw using a 1/8” Allen wrench. TIGHTEN SECURELY. Set screw must seat in ground recess of track pin.

3. Assemble two complete tracks:
   6 wheel models - 31 segments each side for 6x6 models
   - 1 half segment
   8 wheel models - 39 segments each side for 8x8 models
   - 1 half segment

IMPORTANT: The actual number of track segments used will vary and will be determined when the tracks are being installed. Wrap the track assembly around the tires. Ensure they are snug to the front and rear deflated tires. Then add or remove segments until there is a gap of approximately 0 to 1” between the adjoining segments for all 8x8 models. These will have to be drawn together using two C-clamp style vise grips to install the connecting pin.

CAUTION
Supertrack & Rubber track systems require the assembly of 605-77 axle extensions and 126-08 extension studs to each wheel hub before installation of the tracks. Failure to install these components will cause severe damage to the lower body.

Note: Axle extensions are recommended for use only with Argo Super tracks and Rubber tracks and should be removed for tire-only use.

11.3.2 Installing the Axle Extension (Supertrack & Rubber Track). Required for 825-50-1 rubber track use with the exception of vehicles utilizing beadlock or steel offset rims.

For track installation to vehicles with beadlock or steel offset rims, skip to step 7.

4. Raise the vehicle off the ground and remove the wheels using 3/4” socket.

5. Install the extension studs on all of the vehicle wheel studs and tighten securely with a 5/8” socket. See Fig. 11-3.

6. Place the axle extension collars onto the extension studs and seat firmly against the axle hub plate. The small hole must face away from the hub plate.

NOTE
The extension studs have hexagonal sides and must sit properly within the slots on the axle extension collar (See Fig. 11-4). If the extension studs are misaligned with the slots of the axle extension collar when tightened, adjust each stud as necessary by tightening them further (never by loosening them), until alignment allows for the extension collar to slide on easily (by hand), up against the axle hub. Torque to a minimum of 40 ft lbs. Once the extension studs are tightened and aligned correctly, they will not require re-tightening unless they are removed. However, it is very important that with the Super Tracks and Rubber Tracks installed, the wheel nuts of the Argo are tightened to 55 ft lbs. (75 N.m) initially, re-torqued after the first 3 to 5 hours of operation, then again after the next 10 hours, followed by re-torquing every 25 hours of operation.

Figure 11-3. Installing the Axle Extensions.

Figure 11-4. Check Stud Position in Axle Extension.

CAUTION
Damage to the extension studs, wheel hub studs or axle extension may occur if the extension studs are not tightened correctly. Use good judgement when installing.
SECTION 11
ACCESSORY INFORMATION

Vehicles with Beadlock or Steel Offset Wheels:

7. Beadlock or steel offset rim wheels have rim mounting discs that are offset from the centre of the rim and are mounted on longer axles. The rims can be turned around to increase the distance between the tires and vehicle body. Tires still require sizing and correct tire pressure to be used with tracks. Carefully follow the next steps to ensure optimal performance of tracks on your Argo.

Track Installation:

8. Tires must be checked for size and installed in a specific order as shown in the charts, Figure 11-7. If this is not done, chain windup will happen causing damage to the chain tensioning system and possibly, to other drive system components. Tires should be sized this way:
   a. With the tires still off the machine, inflate them all to 5.0 psi.
   b. Measure the circumference of each tire using a suitable tape measure, being sure to measure around the center-line of the tire. Figure 11-5. Write down the measurement on each tire. Figure 11-6.
   c. Install the tires as shown in the chart (Figure 11-7).

9. Remove the air from the end tires.

NOTE

Two tires that measure a certain difference in circumference when at 5 psi, will always be the same difference in circumference when at equal pressure. Check tire pressure every 10 hours and adjust to the pressures shown in the chart.

Wheel Position - 6x6

<table>
<thead>
<tr>
<th></th>
<th>Wheel #1</th>
<th>Wheel #2</th>
<th>Wheel #3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured Size</td>
<td>Smallest</td>
<td>Mid-size</td>
<td>Largest</td>
</tr>
<tr>
<td>Tire Pressure</td>
<td>5 psi</td>
<td>5 psi</td>
<td>6 psi</td>
</tr>
</tbody>
</table>

Wheel Position - 8x8

<table>
<thead>
<tr>
<th></th>
<th>Wheel #1</th>
<th>Wheel #2</th>
<th>Wheel #3</th>
<th>Wheel #4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured Size</td>
<td>Smallest</td>
<td>Largest</td>
<td>Second Largest</td>
<td>Second Smallest</td>
</tr>
<tr>
<td>Tire Pressure</td>
<td>5 psi</td>
<td>7 psi</td>
<td>7 psi</td>
<td>6 psi</td>
</tr>
</tbody>
</table>

Figure 11-5. Measuring the tire.

Figure 11-6. Marking the tire.

Figure 11-7. Tire Sizing Chart.
SECTION 11
ACCESSORY INFORMATION

IMPORTANT

BEFORE INSTALLING THE RUBBER TRACK SYSTEM, IT IS CRITICAL THAT TIRE SIZING IS PERFORMED AND THE TIRES INSTALLED AS SHOWN IN THE CHART (Figure 11-7). PLEASE REVIEW AND ENSURE YOU HAVE FOLLOWED THE PREVIOUS INSTRUCTION BEFORE PROCEEDING WITH THE FOLLOWING:

9. Using a 3/4" socket, install the wheels. Use extreme care and allow extra installation time to protect the axle extensions from damage. Torque the wheel nuts to 55 ft. lbs. (75 N.m).

11.3.3 Standard and Super Track Installation

NOTE

If the tracks, when laid on the ground, appear to curve to one side, then turn one set so that they curve in opposite directions, as shown in Fig. 11-8. If this is NOT done, the vehicle may pull to the left or right during straight line operation.

10. Lay the two assembled tracks on the ground. Drive the vehicle forward onto the tracks until only two segments are in front of the tires.

11. Pull the remaining track around the rear tire and forward to the front of the vehicle.

12. Deflate the front and rear tires for easier installation of the final track pin. The gap between the adjoining segments should be between 0 to 1" for Avenger and Frontier models and 2 to 2-1/2" for all other models. Adjust the quantity of track segments to meet this requirement.

13. Join the two ends of the track and secure them in place with C-clamps as shown in Fig. 11-9, so that the 1/4" holes are lined up.

13. Install the final track pin as in instruction No. 1 & 2. Remove the C-clamps.

14. Re-inflate the tires as shown in the charts in Figure 11-7. Note: Putting too much tension in the track will severely stress the axles, bearings and frame.

15. Allow the tires to reach temperature of operating conditions. Recheck the tire inflation at operating conditions before operation.

Temperature changes will cause the segments to expand or contract and will also change the tire pressure. In order to maintain suitable tension on the track system, observe the following precautions:

⚠️ CAUTION

DO NOT over inflate tires. Lower body damage could result from track segments rubbing against the polyethylene body material. Pay special attention to the tracks during the first few “run-in” hours of use.

If the tracks become slack, start hitting the lower body, or the tires begin to slip inside the tracks, DO NOT INCREASE TIRE PRESSURE ABOVE WHAT IS SHOWN IN THE CHART (Figure 11-7). REMOVE THE HALF SEGMENT FROM EACH TRACK, OR REMOVE A FULL SEGMENT AND ADD THE HALF SEGMENT.

Over inflation of the tires will cause excessive and premature wear of the tires and ARGO track system, and may cause axle and/or axle bearing damage. Under inflation of the tires may allow them to slip in the track or may cause the tire to pop off the wheel rim. Under certain conditions, the tires may climb out of the track system during a turn or side hill operation. Check that all tires are correctly inflated, and avoid sharp high speed turns when the Argo is heavily loaded.
11.3.4 Removal of Standard and Super Tracks

1. Use C-clamp to take tension off of track pin, as in Fig.11-9.

2. Loosen the set screw in the lock bushing of the track pin. Store set screw in a safe place.

3. Using a 1/4” pin punch and hammer, start the removal of the track pin from the vehicle side of the track. Once started, pull the pin out of the segment with Vise Grip.

4. Pull the track off the top of the tires and drive the vehicle out of the tracks.

11.3.5 Operating Precautions (All Track Systems)

An Argo equipped with tracks has a reduced carrying capacity in water (See Section 1.4.1). Refer to Section 5.6 of this manual for additional information on safe operation in water.

Do not use the Argo in water when equipped with tracks unless it is also equipped with an outboard motor. The tracks do not propel the Argo in water.

**CAUTION**

CAUTION should be observed when operating in winter conditions and a drop in temperature occurs. Snow and slush accumulation in the track could freeze, resulting in damage to the track system. Slush, snow and ice accumulation should be cleared from the axles and track periodically to prevent build-up.

**CAUTION** should be observed when using any track system on an Argo. Make sure the steel connecting pins are properly secured in each track segment. Failure to secure the track pins in the segment can result in lower body damage if the track pin moves out of the segment toward the lower body.

**WARNING**

EXTREME CAUTION must be observed when using the track systems on icy surfaces. Steering and braking effectiveness will be reduced. Reduce speed.

EXTREME CAUTION must be observed when crossing ice-covered water. The vehicle may sink if it breaks through the ice surface and fills with water. Make sure drain plugs are securely in place and do not overload the vehicle. Should the vehicle break through the ice, attempt to back the vehicle out, taking care that water does not enter the engine compartment. Refer to section 5.7.1 of this manual for additional information on safe operation on ice-covered water.

11.3.6 Standard Tracks

Standard Tracks are intended to extend the use of the Argo so that it can be driven over softer terrain conditions such as mud, swamp, muskeg and snow. The standard track system is well suited for a wide variety of terrain conditions. However, for deep snow conditions, the Super Track system will outperform the standard track system.

11.3.7 Super Tracks

Super Tracks provide the maximum “flotation” available for the Argo. They are very effective in deep snow, swamp and muskeg.

Care must be used while traveling over uneven ground conditions. The extra width of the segments can lead to the segments tipping to one side on the tire to such an extent that the tire guide forces the tire bead off the rim. SUPER TRACKS ARE NOT RECOMMENDED FOR TRAVEL OVER LOGS, STUMPS OR ROCKS.

11.3.8 625-50 & 825-50-1 Rubber Tracks

Rubber tracks provide the same flotation as Super Tracks. They are a highly durable belt track design constructed of rubber. This system has low rolling resistance.

11.3.9 Installation Instructions (625-50 & 825-50-1 Rubber Track Systems)

1. Install the Hinge Assembly as described in the 625-50 or 825-50-1 Rubber Track Kit instructions.

2. Install axle extension and extension studs to the wheel hubs following the guidelines as described in 11.3.2 of this section.

3. Tires must be checked for size and installed in a specific order as shown in section 11.3.2, step 7.

4. Remove the air from the front and rear tires.

**Installing The Tracks To The Vehicle**

**IMPORTANT**

BEFORE INSTALLING THE RUBBER TRACK SYSTEM, IT IS CRITICAL THAT TIRE SIZING IS PERFORMED AND THE TIRES INSTALLED AS SHOWN IN THE CHART (Figure 11-7). PLEASE REVIEW AND ENSURE YOU HAVE FOLLOWED THE PREVIOUS INSTRUCTION BEFORE PROCEEDING WITH THE FOLLOWING:
5. Lay the two assembled tracks on the floor.

6. Drive the vehicle forward onto the tracks leaving approximately 8” extending past the front tires.

7. Pull the remaining track around the rear tire and forward to the front of the vehicle.

8. Deflate the front and rear (or all tires) for easier installation of the final track pin.

9. Join the two ends of the track and secure them in place with C-Clamps as shown in Figure 11-10, so that the holes of the hinge lacing line up.

10. Insert the 825-56 Track Pin through one of the 108-23 washers and then through the hinge lacing. Be sure to install the pin from the outside edge of the track so the end with the cotter pin hole ends up nearest the vehicle lower body.

11. Secure the Track Pin in the hinge with a 108-23 washer and 100-100 cotter pin at end closest to the vehicle body.

12. Re-inflate the tires as shown in the chart. With the tires installed and inflated as shown in the chart, there should be 2 to 3 inches between the bottom of the second (or third) tire and the inside surface of the track when the vehicle is elevated. Figure 11-11 & 11-12 for Avenger and Figure 11-13 & 11-14 for Frontier. This may require the installation of a track extension or additional hinge kit. For Avengers with typical 79-80” tires, the total track length should be 235” (including hinges and track extensions.) For Frontiers with typical 76-77” tires, the total track length should be 189” pin to pin. The extension can be easily removed if the wheels slip within the track during winter use. **NOTE: Putting too much tension in the track will severely stress the axles, bearings and frame.**

**CAUTION**

Rubber tracks over 25” tires work best in snow or marsh conditions. Care must be taken when turning to prevent the inside edge of the tracks from rubbing the lower body. Do not make sharp turns on terrain that has high traction with the rubber tracks tread.
SECTION 11
ACCESSORY INFORMATION

11.3.10 Removal of 625-50 & 825-50-1 Argo Rubber Track Systems

1. Use a "C" clamp style vise grip to take the tension off the pin. Remove the flat washer and cotter pin. With a drift punch and hammer, tap the pin until it can be grabbed and pulled from the hinge lacing.

If an Argo is taken outdoors into freezing temperatures after the track system has been installed indoors at normal room temperature, the tires will lose air pressure. After the tires have cooled down to the outdoor temperature where the vehicle is to be operated, the tire pressure should be rechecked and adjusted as required.

Extreme CAUTION is advised when crossing ice covered water. The vehicle may sink if it breaks through the ice surface and fills with water. Make sure drain plugs are securely in place, and do not overload the vehicle. Should the vehicle break through the ice, attempt to back the vehicle out. During this maneuver, take care that water does not enter the engine compartment. Refer to the Argo operator’s manual for additional information on safe operation in water.

Under certain winter conditions, such as a rapid drop in temperature after a mild period, slush can build up on the track to the point that the ARGO may be unable to move. Stop periodically to clean snow and ice from the axles and track components to prevent buildup.

CAUTION

Maximum Total Load Capacity in Water of a Frontier or 6x6 with Rubber Tracks is 160 kg (350 lbs.) and an 8x8 is 365 kg (800 lbs.)

WARNING

Make sure all passengers riding in an Argo equipped with ice cleats are informed to keep hands, feet and clothing inside the vehicle, well away from the tracks and ice cleats while the Argo is in motion. Serious injury or death could result from getting caught by the ice cleats.

CAUTION

Installing Argo ice cleats or any other traction device on the in-board side of the track segment, close to the lower body, may cause damage to the lower body if contact results while the vehicle is being driven.

11.5 OUTBOARD MOTOR BRACKET - SIDE MOUNT (Part Nos. 617-09 & 617-10)

The side mount outboard motor bracket attaches to the right rear of any Argo model. It allows the attachment of a gasoline or electric outboard motor of 9.9 horsepower maximum. When traveling on land it is recommended that the outboard motor be transported in the rear compartment of the Argo.

Use caution when turning in confined spaces or close to bystanders. Personal injury or damage may result.
SECTION 11
ACCESSORY INFORMATION

11.6 ARGO STORAGE COVERS (Part Nos. 621-21; 821-20 & 821-40)

The Argo storage covers prevent debris, rain water or snow from accumulating in the Argo. Secure the cover by pulling it down over the bumper and tying the cord tightly in place. A cord or tie strap through the side grommets and under the vehicle lower body securely holds the cover in place in windy conditions.

⚠️ CAUTION ⚠️

Damage may result to the cover if the vehicle is transported at highway speeds with the cover in place. If the cover must be used while transporting the vehicle, damage may be minimized by placing padding over sharp corners such as the tail pipe or the winch and tying the cover securely in place against the Argo body.

11.7 POWER WINCH (Part Nos. 622-105 & 622-110)

The power winch mounts to the front of the Argo and can be used for self-recovery and to raise and lower the snowplow blade (Part No. 657-00). The winch has a free-wheeling feature that allows the cable to be pulled off the winch drum without using the 12 volt electric motor.

The electrical components and the wiring design of the winch kit prevents the use of the winch motor unless the ignition key is turned to the 'on' position. This is a safety feature that prevents the unauthorized use of the winch when the vehicle is parked.

After the installation of the winch kit is completed, test the electrical connections by moving the toggle switch control from side to side with the ignition switch removed. If the winch DOES NOT operate the connections are correct. If the winch starts during this test have the installer correct the wiring connections immediately.

⚠️ CAUTION ⚠️

11.7.1 Rules For Safe Operation

1. The winch is rated at 3,000 pounds (single-line) capacity. DO NOT OVERLOAD. DO NOT ATTEMPT PROLONGED Pulls AT HEAVY LOADS. DO NOT MAINTAIN POWER TO THE WINCH IF THE MOTOR STALLS. Overloads can damage the winch and/or the wire rope and create unsafe operating conditions. For heavy loads, we recommend the use of the optional pulley block and hook assembly (Warn Part No. 28881 or Superwinch Part No. 1503) to double line the wire rope (Figure 11-16). This reduces the load on the winch and the strain on the wire rope by approximately 50%.

2. Periodically check the winch installation to assure that all bolts are tight.

3. DO NOT “move” your vehicle to assist the winch in pulling a load. The combination of the winch and vehicle pulling together could overload the wire rope and the winch itself.

4. KEEP WINCHING AREA CLEAR. Do not allow people to remain in the area during winching operations. Do not step over a taut wire rope or allow anyone else to do so. Do not stand between the winch and the load.

5. INSPECT WIRE ROPE AND EQUIPMENT FREQUENTLY. A frayed wire rope with broken strands should be replaced immediately. Always replace wire rope with the manufacturer’s identical replacement part, Warn Part No. 60076 or Superwinch Part No. 1513.

6. USE HEAVY LEATHER GLOVES when handling wire rope. Do not let wire rope slide through your hands. A broken strand could seriously injure your hands.

7. Keep clear of winch wire rope and hook when operating winch. Never put your fingers through the hook when reeling in the last few feet of line. If your finger should become trapped in the hook, you could lose your finger. Use the HANDSAVER STRAP (Figure 11-17) to guide the hook within the last few feet. Never guide a wire rope onto the drum with your hand.

Figure 11-16 Double Line.

Figure 11-17. Using the Handsaver Strap.
SECTION 11
ACCESSORY INFORMATION

8. NEVER HOOK THE WIRE ROPE BACK ONTO ITSELF. Use a nylon sling. (Figure 11-18.) Hooking the wire rope onto itself can damage the rope (Figure 11-19).

9. It is a good idea to lay a heavy blanket or jacket over the wire rope near the hook end when pulling heavy loads (Figure 11-20). If a wire rope failure should occur, the cloth will act as a damper and help prevent the rope from whipping.

10. Your winch is not designed or intended for overhead hoisting operations. Never use your winch for lifting or moving people.

11. Avoid continuous pulls from extreme angles as this will cause the wire rope to pile up at one end of the drum (Figure 11-21 & Figure 11-22). This can jam the wire rope in the winch causing damage to the wire rope or the winch itself.

12. Always operate the winch with an unobstructed view of the winching operation.

13. Do not operate the winch when under the influence of drugs, alcohol or medication.

14. Never work on or around the fairlead or winch drum when the winch is under load.

15. When using your winch to move a load, place the vehicle transmission in neutral, set vehicle parking brake, chock all wheels, and keep the engine running.

16. Do not use the winch to hold the Argo in place during transportation. Use tie-down straps.

17. Maintain at least five turns of wire rope around wire rope drum to prevent the wire rope from pulling off under load.
11.7.2 Tips for Extending the Life of Your Winch

1. Keep a tightly and evenly wound wire rope drum. Do not allow the wire rope to become loosely wound. A loosely-wound spool allows a wire rope under load to work its way down into the layers of wire rope on the drum. When this happens, the wire rope may become wedged within the body of the windings damaging the wire rope. To prevent this problem, keep the wire rope tightly and evenly wound on the drum at all times. During winching, periodically check to see that the wire rope is winding on evenly. A good practice is to rewind the wire rope under tension after each use. One way to do this is to attach the hook to a stationary object at the top of a small hill or incline and winch your vehicle up the incline.

2. Do not allow motor to overheat. Remember, the winch is only for intermittent use. During long or heavy pulls the motor will get hot. The internal parts will be hotter than the case. To check the motor temperature, stop winching and carefully touch the end of the motor. If the motor is uncomfortably warm, allow the motor to cool before continuing — keep the engine running to recharge the battery during this break.

3. Use a pulley block for heavy loads. To maximize winch and wire rope life, use a pulley block (Warn Part No. 28881 or Superwinch Part No. 1503) to double line heavier loads.

4. The pull required to start a load moving is often much greater than the pull required to keep it moving. Avoid frequent stopping and starting during a pull.

5. Prevent kinks before they occur.
   (1) This is the start of a kink. At this time, the wire rope should be straightened.
   
   (2) The wire rope was pulled and the loop has tightened to a kink. The wire rope is now permanently damaged and must be replaced.

(3) The result of kinking is that each strand pulls a different amount, causing the strands under greatest tension to break and reduce load capacity of the wire rope. The wire rope must be replaced.

11.8 REAR MUD FLAP ACCESSORY (Part No. 625-10)
Argo mud flaps are made of black polyethylene sheet cut to conform to the curve of the rear corners of the lower body. They are recommended for use with either track system to block the mud and snow thrown up during higher speed travel.

11.9 BILGE PUMP ACCESSORY (Part No. 638-40)
The bilge pump kit features a 12 volt, 500 gallon per hour pump to empty water from the lower body. Operated by a dash mounted push/pull switch, the bilge pump is recommended for any amphibious use of an Argo.

⚠️ CAUTION

The pump is not designed to run dry. Use only when water has collected in the lower body.

11.10 HANDRAIL ACCESSORY (Part Nos. 639-26, 839-30 & 839-35)
Handrails mount to the top of the upper body around the rear compartment, providing a convenient passenger hand hold or cargo tie down point.

⚠️ CAUTION

Do not attempt to lift the vehicle by using the handrails.

11.11 TOW HOOK ACCESSORY (Part No. 642-00)
The tow hook kit is a steel fabrication that bolts securely through the bumper and both body halves at the front or rear of the vehicle.

⚠️ CAUTION

The tow hook is not intended to secure an Argo to a trailer or truck bed. Body deformation could result from a downward pull.
SECTION 11
ACCESSORY INFORMATION

11.12 WINDSHIELD (Part Nos. 648-79 & 648-80)

The windshield features an anodized aluminum frame with rubber mounted 24” high x 48” wide laminated safety glass. It mounts to the top of the dash area of any Argo model, folds down and secures in place over the hood and is required for the convertible top.

⚠️ CAUTION

When the windshield is raised in the upright position, it must be supported by the two side support arms. Attach both support arms to the windshield frame brackets using the quick pins supplied. Do not attempt to fasten the front of a convertible top to the windshield until the support arms are in place.

DO NOT transport the Argo at highway speeds with the windshield upright. For transportation at highway speeds, it is recommended that the vehicle be reversed on the truck or trailer so that the front of the Argo faces to the rear. The windshield should be folded down and secured in place using a rope or a tie down strap.

⚠️ CAUTION

Operating the Argo for extended periods in high ambient temperatures with the windshield in the folded down position may restrict hot air flow from the engine compartment which could lead to engine overheating and heat build-up in the windshield frame and glass. Use caution when operating the vehicle with the windshield folded down to avoid overheating in warm temperatures.

The following decal should be attached to the inside of the windshield:

⚠️ DANGER

Engine exhaust fumes are poisonous and can cause illness or death if inhaled. Allow for adequate ventilation in the passenger compartment when a top is installed.

Les gaz d'échappement sont nocifs. Les inhaler peut causer la maladie ou la mort. Assurez-vous d'une bonne ventilation du compartiment des passagers quand un toit est installé.

If this decal is not attached to the windshield, contact your Argo retailer for a free-of-charge replacement. The part number is 126-84.

11.13 CONVERTIBLE TOP (Part Nos. 649-51, 849-40, 849-45 & 849-51)

The convertible top provides protection from the elements for the occupants and offers the option of rolling up or removing the side doors, rear door and rear side panels while leaving the overhead portion in place.

⚠️ CAUTION

Never fold the clear plastic windows; always roll them up to store them in place on the top assembly or remove them.

To fold the convertible top for storage, unzip the side and rear doors and the side panels, lay them aside and unsnap the domes along the front of the roof panel from the windshield frame. Fold the aluminum top frames together and roll the overhead panel around the frames loosely. Then, roll the window panels around the top material so the boot will cover the complete assembly for protection.

⚠️ CAUTION

The convertible top assembly is not designed to withstand the turbulence created while transporting the vehicle with the top assembled in the ‘up’ position. Fold the top down and secure it properly to the vehicle body or remove it from the vehicle for high speed transportation.

⚠️ WARNING

Hearing protection is strongly advised when operating the vehicle equipped with any convertible top assembly.

The following decal should be attached to the inside of the windshield:

⚠️ DANGER

Engine exhaust fumes are poisonous and can cause illness or death if inhaled. Allow for adequate ventilation in the passenger compartment when a top is installed.

Les gaz d'échappement sont nocifs. Les inhaler peut causer la maladie ou la mort. Assurez-vous d'une bonne ventilation du compartiment des passagers quand un toit est installé.

If this decal is not attached to the windshield, contact your Argo retailer for a free-of-charge replacement. The part number is 126-84.

67
11.14 ALTERNATOR ACCESSORY - For Avenger (Part No. 850-54)

The externally mounted, belt driven, 40 amp alternator is recommended when electrical accessories such as a winch are added to the vehicle.

Check the V-belt tension frequently to be sure belt deflection is no more than 1/8” or 3 mm with approximately 6 lbs. or 3 kgs of force applied to the belt, halfway between the pulleys. Adjust the belt tension as necessary. Failure to do so will reduce the charge rate and lead to battery failure.

11.15 SNOW PLOW ACCESSORY (Part No. 657-21)

The snow plow assembly attaches to the front of the Argo at two mounting brackets that bolt to the front axle bearing extension housings. The plow blade is raised and lowered by operating the power winch in and out.

⚠️ WARNING

DO NOT STAND BETWEEN THE PLOW BLADE AND THE FRONT OF THE ARGO. Injury could result if the blade is raised.

The vehicle operator must observe caution when operating the vehicle and snow plow in the presence of others. Injury could result if a bystander is struck when the vehicle swings to turn or the blade is lowered onto someone’s foot. Always be aware of the area being plowed. Although there is a blade trip mechanism feature of the blade, damage or operator injury could result from hitting rocks, stakes or curbs hidden under the snow being plowed.

To avoid serious injury or death:

• Do NOT operate the vehicle on open or frozen bodies of water with the snow plow attached.

• Do not exceed 8 kph (5 mph) with blade installed.

• Plow cautiously. Impact with hidden or stationary objects may cause the vehicle to stop suddenly or go out of control.

• Operate with extreme caution on slopes. Do not operate the plow on steep grades and rough terrain.

• Keep bystanders away from the blade or vehicle while moving or stationary.

• Never put feet or hands under plow blade.

• Inspect plow mechanism, fasteners, cables, and adjustments before operating. Replace all worn or damaged components before operating.

• Lower the plow to the down position before leaving the vehicle unattended.

11.16 AMPHIBIOUS TRAILER (4-Wheel & 8-Wheel)

The Argo amphibious trailers have been designed as an additional cargo carrier for any Argo model. The 4-wheel trailer can be used with any 6 and 8 wheeled Argo, while the 8-wheel trailer can be used with any 8 wheeled Argo. They are NOT intended for transporting people.

Become familiar with the trailer’s handling characteristics, especially in hilly conditions, BEFORE using it in unfamiliar terrain or fully loaded.

The trailer tongue is designed to swivel, much like a universal joint, even in the roughest terrain.

⚠️ WARNING

Keep fingers clear of tongue swiveling components.

⚠️ CAUTION

DO NOT exceed maximum load capacity for your specific application.

Exceeding the load capacity could cause trailer or tow vehicle damage and personal injury could be incurred.

11.16.1 Operating Precautions

Observe the following recommendations for safe and trouble free operations:

• 4 wheel trailer load capacity - 600 lbs. (270 kg). Trailer weight is 400 lbs (181 kg) with 25” tires and 345 lbs (156 kg) with 24” tires.

• 8 wheel trailer load capacity is 1300 lbs (590 kg) with 25” tires and 1405 lbs (635 kg) with 24” tires. Trailer weight is 700 lbs (318 kg) with 25” tires and 595 lbs (270 kg) with 24” tires. Load capacity equals gross weight rating minus the weight of the trailer and accessories.

• 8 wheel trailer gross vehicle rating: 2000 lbs (907 kg) on land, 1800 lbs (817 kg) on water.

• Keep tire pressure at 4 psi.

• Cargo must be kept low and centered in the trailer at all times especially if used in the water. Be aware that loads may shift when trailer is operated in uneven terrain.

• Ensure drain plugs are installed in trailer and tow vehicle before entering water. Keep both drain plugs in place and tightly sealed. Drain plugs are accessible from the outside...
of the trailer. To install, thread in clockwise until snug. To remove, turn counter clockwise.

- Caution - Asphalt or concrete surfaces will cause excessive tire wear.

- Do not use in fast flowing or rough water. Operator discretion is advised.

- Do not stop suddenly when pulling a loaded trailer down hill as it may run ahead or into the back of the vehicle pulling it. Remember that the increased load and weight of the trailer will increase the braking distance of the tow vehicle.

- Do not exceed the tow vehicle's towing capacity. Avoid making sharp turns (where the trailer is less than 90 ° to the vehicle).

- Do not park on hills. Avoid side hill operation, and going over sudden drop-offs greater than 12".

- Do not step on or place loads on the edge of the body over the trailer wheels. This area of the trailer body is intended only as a mud guard.

- Do not "train" multiple trailers together.

Follow the instructions listed in Section 6.4.5 of this manual to service the axle bearings. Do not allow water and debris to accumulate in the bottom of trailer body to avoid premature bearing failure.

11.17 HEATER ACCESSORY - Avenger (Part No. 848-32)

The heater kit includes a conventional automotive style hot coolant heater core with 2 speed fan to circulate the warm air through the ducts to the right side of the driver’s compartment and the windshield. In some operating conditions, ie. high humidity or full passenger load, defrosting the windshield and side panel windows may not be effective.

In extremely cold weather and operating at low load, the heater may perform like a second radiator and keep the engine from reaching proper operating temperature. Under these conditions, a piece of cardboard or similar material should be used to partially cover the engine radiator.

11.18 ROLL OVER PROTECTIVE STRUCTURES (Part Nos. 648-47, 849-90-2 & 849-90-4)

The optional Rollbar (see Section 11.20) or optional Roll Over Protective Structure, also referred to as a ROPS, provides additional protection for the occupants in case the vehicle overturns, provided all occupants wear seatbelts.

However, Rollbars and ROPS also introduce additional hazards that have to be carefully weighed against the safety benefits of these devices:

- If your vehicle is equipped with either a Rollbar or ROPS, always remember that your vehicle is now more top heavy. This reduces the vehicle's stability both on land and in the water. Therefore, always wear your seatbelt when driving on land, but never when driving in the water. The increased instability and weight may mean that you will no longer be able to maneuver some slopes with either a rollbar or ROPS installed. Follow all weight restrictions and, as always, drive slowly and carefully.

- A 6 wheeled Argo with ROPS installed should not be used in water at any time.

- Be particularly careful when driving under trees, as low-hanging branches can upset your vehicle.

- Never place or carry anything on top of the ROPS.

Roll Over Protective Structures (ROPS) are designed for use on all Argo models. Part No. 848-90-2 provides roll over protection and lap belts for the driver and front seat passenger of all Argo 8 x 8 models. Part No. 848-90-4 provides roll over protection and lap belts for driver, front seat passenger and two passengers in the optional rear bench seat (Part No. 849-80). Part No. 648-47 provides roll over protection and lap belts for driver and front seat passenger of all 6x6 models.

The ROPS design provides reasonable protection from injury in the event of a rollover. DO NOT rely on it to protect the occupants from irresponsible driving.

The ROPS has been designed to meet the requirements of the Occupational Health and Safety Act - Regulation 856 ‘Roll-Over Protection Structures’ for the Province of Ontario, Canada.

座带必须被正确调整并由所有乘客于任何时候除外佩戴。6x6 车型配备的 ROPS 应该不能用于水路操作。千万不要让多个人在车辆上而没有确定的座椅带。

必须在 ROPS 上使用文章。使用 ROPS 时要小心在不平坦的路面上；ROPS 减少车辆的稳定性。

不得在 ROPS 上钻、焊或更改任何方式，除非制造商的授权。

最大总重量为 907 公斤（2000 磅），Avenger 1066 公斤（2350 磅）。

必须小心在穿越树线的路径。树枝
SECTION 11
ACCESSORY INFORMATION

could be knocked down, causing injury to the vehicle occupants.  
FAILURE TO COMPLY WITH THE ABOVE COULD RESULT IN PERSONAL INJURY OR DEATH.

CAUTION

DO NOT use the ROPS as an attachment point for towing or winching the Argo.  
Check fastener tightness annually.  Inspect for and replace any damaged or worn parts of the ROPS and the seat belts.

11.19 REAR BENCH SEAT (Part No. 849-80)

This bench seat assembly is similar to the front bench seat design, providing a back rest and more comfort for two persons riding in the rear compartment of any current Argo 8 x 8 model.  The seat cushion and back rest are easily removed to use the rear compartment for cargo.

CAUTION

Always ensure that the spring loaded pull pin (Part No. 849-72) on each side is fully engaged after installing the seat.  Pull the seat hard to ensure that it is secured properly.  
Never attach a tow line to the handrail of the seat back rest.  
When a roll over protection structure (ROPS) is installed, seat belts must be installed for rear bench seat passengers and used properly.

11.20 ROLL BAR ACCESSORY (Part No. 648-15)

The roll bar is designed for use on all Argo 6 x 6 models.  The roll bar provides some roll over protection and lap belts for the driver and front seat passenger.

WARNING

When the Roll Bar Kit is installed, ALWAYS wear seat belts when operating the vehicle on land.  REMOVE seat belts when entering water.

Maximum total vehicle weight must not exceed 1465 lbs. or 665 kg. which means 2 people and 100 lbs. or 46 kg. of cargo in the vehicle.  
Never attach anything to the Roll Bar other than Ontario Drive & Gear 648-15 Roll Bar specific accessories.  
The Roll Bar reduces vehicle stability.  Always use common sense when traveling over rough terrain.  
The Roll Bar is designed to reduce the chance of injury.  
DO NOT rely on it to protect the vehicle occupants from irresponsible driving.  
The Roll Bar could come in contact with tree branches.  
Falling branches or vehicle upset could occur.  Use extreme caution when traveling on narrow tree lined trails.

11.21 BRUSHGUARD ACCESSORY (Part Nos. 642-20 & 642-40)

The Brushguard Kit protects the winch and headlights from damage by the brush encountered along the trail.  It features an integrated tow hook.  Installation of mounting kit or power winch is required.
LIMITED WARRANTY

ARGO warrants its vehicles, sold by authorized ARGO dealers, from defects in material or workmanship for the period and under the conditions described herein.

The ARGO must be purchased as new and unused by its first owner from an Authorized ARGO Dealer in the country in which the sale occurred.

If the ownership of a product is transferred during the warranty coverage period, this limited warranty, subject to its terms and conditions, shall also be transferred.

This warranty covers parts and labour charges for repair or replacement of defective parts. Parts must be genuine ARGO parts, and repairs must be performed by an authorized ARGO Dealer. Dealers must keep defective parts for 90 days following the repair, in the event that ARGO requires the part for further inspection.

WARRANTY COVERAGE PERIOD

The warranty period is limited to 12 months from the date of sale, for personal or commercial use. For emission-related components; please also refer to the US EPA Emission Related Warranty contained herein. The repair or replacement of parts or the performance of service under this warranty does not extend the life of this warranty beyond its original expiration date.

WARRANTY LIMITATIONS & EXCLUSIONS

This ARGO limited warranty will become null and void if:
• The ARGO was used for racing or any other competitive activity, at any point, even by a previous owner.
• The ARGO was operated in a manner inconsistent with the recommended operation described in the ARGO Operator’s Manual.
• The ARGO has been altered or modified in such a way so as to affect its operation, performance or durability, or has been altered or modified to change its intended use.
• The scheduled maintenance per the ARGO Operator’s Manual has not been followed.
• The mandatory Pre-Delivery Inspection (PDI) has not been completed and documented by an authorized ARGO dealer.

This ARGO limited warranty does not cover the following items:
• Failures that are not caused by a defect in material or workmanship.
• Claims of defective design.
• Damage caused by Acts of God
• Accidental damage
• Normal wear and tear
• Damages or failures resulting from improper lubrication and fluids; See the Operator’s Manual for ARGO approved lubricants and procedures.
• Damage caused by failure to provide proper maintenance and/or storage, as described in the ARGO Operator’s Manual.
• Damage caused by abuse, abnormal use, neglect or operation of the product in a manner inconsistent with the recommended operation described in the ARGO Operator’s Manual.
• Damage caused by use of aftermarket or unapproved components, accessories, or attachments
• Unauthorized repairs; or repairs made by an unauthorized repair center.
• Incidental or consequential damages, or damages of any kind including without limitation towing, storage, telephone, rental, taxi, inconvenience, insurance coverage, loan payments, loss of time, loss of income.

WHAT TO DO TO OBTAIN WARRANTY COVERAGE

The customer must cease using the ARGO upon the appearance of an anomaly. The customer must notify an authorized ARGO dealer within three (3) days of the appearance of a defect, and provide it with reasonable access to the product and reasonable opportunity to repair it.

Please contact an authorized ARGO dealer to resolve any warranty issues.
ARGO warrants to the purchaser and each subsequent purchaser that the ARGO emissions system is:

- Designed, built and equipped so as to conform with all applicable regulations
- Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in ARGO’s application for certification. The warranty period is limited to 30 months from date of sale.

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

- Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied, is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by ARGO. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.
- Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
- Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by ARGO. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
- Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station at no charge to the owner.
- The Argo owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station.
- ARGO is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.
- Throughout the ARGO warranty period stated above, ARGO will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
- Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of ARGO.
- Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the purchaser will be grounds for disallowing a warranty claims. ARGO will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.
U.S. EPA & CARB EVAPORATIVE EMMISIONS WARRANTED PARTS:

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if ARGO demonstrates that the vehicle has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emission warranty parts are covered:

For exhaust emissions, emission-related components include any engine parts related to the following systems:
1. Air-induction system
2. Fuel system
3. Ignition system
4. Exhaust gas recirculation systems

The following parts are also considered emission-related components for exhaust emissions:
1. Aftertreatment devices
2. Crankcase ventilation valves
3. Sensors
4. Electronic control units

The following parts are considered emission-related components for evaporative emissions:
1. Fuel Tank
2. Fuel Cap
3. Fuel Line
4. Fuel Line Fittings
5. Clamps*
6. Pressure Relief Valves*
7. Control Valves*
8. Control Solenoids*
9. Electronic Controls*
10. Vacuum Control Diaphragms*
11. Control Cables*
12. Control Linkages*
13. Purge Valves
14. Vapor Hoses†
15. Liquid/Vapor Separator
16. Carbon Canister†
17. Canister Mounting Brackets
18. Carburetor Purge Port Connector

*As related to the evaporative emission control system.

†Applicable to California models only.
ARGO RETAILER... Please complete this page at the time of sale to the new owner so your customer has all pertinent information that may be required.

ARGO MODEL ________________________________

ARGO SERIAL NO. ________________________________

ENGINE SERIAL NO. ________________________________

TRANSMISSION SERIAL NO. ________________________________

SOLD TO: _______________________________________

STREET ADDRESS: _______________________________________

CITY OR TOWN:_______________________ PROV/STATE: ___________

POSTAL/ZIP: _______________________________________

DATE OF SALE: _______________________________________

WARRANTY PERIOD EXPIRES: _______________________________________

DEALER NAME: _______________________________________

PHONE: _______________________________________

ADDRESS: _______________________________________

CITY/TOWN:_______________________ PROV/STATE: ___________

ARGO PRODUCTS MANUFACTURED BY:

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