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0099001367-02OPERATORS MANUAL/ MANUALDELUSUARIOSears Brands Management Corporation,Hoffman Estates, IL60179 U.S.A.Model / Modelo28.712396V/12VBatteryCharger/MaintainerCargador de bateras 6Vy12V/MantenedorCAUTION:Read and follow all safetyrules and operating instructionsbefore every use of this product.SAVE THESE INSTRUCTIONS.ATENCIN: Lea y siga todas las reglasde seguridad e instrucciones de usoantes de cada uso de este producto.GUARDE ESTAS INSTRUCCIONES.OPERATORS MANUAL / MANUAL DEL USUARIO 6/12V Battery Charger & Engine Starter Cargador de bateras 6 o 12V y arrancador Model / Modelo: 28.71326 CAUTION: Read and follow all safety rules and operating instructions before every use of this product. SAVE THESE INSTRUCTIONS. ATENCIN: Lea y siga todas las reglas de seguridad e instrucciones de uso antes de cada uso de este producto. GUARDE ESTAS INSTRUCCIONES. Sears Brands Management Corporation, Hoffman Estates, IL 60179 U.S.A.DIEHARD THREE-YEAR FULL WARRANTY When operated and maintained according to all supplied instructions, if this DieHard product fails due to a defect in material or workmanship within 3 years from the date of purchase, return it to any DieHard outlet in the United States for free replacement. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.CONTENTS IMPORTANT SAFETY INSTRUCTIONS.....4 PERSONAL SAFETY PRECAUTIONS.....4 ASSEMBLY INSTRUCTIONS.....5 GROUNDING AND AC POWER CORD CONNECTIONS .....5 FEATURES/CONTROL PANEL.....IMPORTANT SAFETY INSTRUCTIONS WARNING RISK OF EXPLOSIVE GASES WORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL OPERATION. FOR THIS REASON, IT IS IMPORTANT THAT YOU FOLLOW THESE INSTRUCTIONS EACH TIME YOU USE THE CHARGER. To reduce the risk of a battery explosion, follow these instructions and those published by the manufacturer of the battery and any equipment you intend to use in the vicinity of the battery.ASSEMBLY INSTRUCTIONS Remove all cord wraps and uncoil the cables prior to using the battery charger. GROUNDING AND AC POWER CORD CONNECTIONS USING AN EXTENSION CORD The use of an extension cord is not recommended. If you must use an extension cord, follow these guidelines: Pins on plug of extension cord must be the same number, size, and shape as those of plug on charger. Ensure that the extension cord is properly wired and in good electrical condition.BATTERY TYPE BUTTON This selects the type of battery to charge. Standard Used in cars, trucks and motorcycles, these batteries have vent caps and are often marked low maintenance or maintenance-free. This type of battery is designed to deliver quick bursts of energy (such as starting engines) and has a greater plate count. The plates are thinner and have somewhat different material composition. Regular batteries should not be used for deep-cycle applications.ABORTED CHARGE If charging cannot be completed normally, charging will abort. When charging aborts, the chargers output is shut off and the CHARGING (yellow) LED will flash. The digital display will show an error code (see the Troubleshooting section for a description of the error codes). To reset after an aborted charge, unplug the charger from the AC outlet, wait a few moments and then plug it back in. DESULFATION MODE Desulfation could take 8 to 10 hours.USING THE BATTERY VOLTAGE TESTER 1. With the charger unplugged from the AC outlet, connect the charger to the battery, following the instructions given in previous sections. 2. Plug the charger AC power cord into the AC outlet. 3. If necessary, press the BATTERY TYPE button until the correct type is indicated. 4. Read the voltage on the digital display. Keep in mind that this reading is only a battery voltage reading; a false surface charge may mislead you. Compare the reading to the following chart.TROUBLESHOOTING AND ERROR CODES Error Codes ERROR CODE DESCRIPTION REASON/SOLUTION F01 The battery voltage is still under 10V (for a 12V battery) or 5V (for a 6V battery) after 2 hours of charging. The battery could be bad. Have it checked or replaced. F02 The charger cannot desulfate the battery. The battery could not be desulfated; have it checked or replaced. F03 The battery was unable to reach the full charge voltage.PROBLEM Short or no start cycle when cranking engine. POSSIBLE CAUSE REASON/SOLUTION Drawing more than the Engine Crank time varies with the amount Start Rate. of current drawn. If cranking draws more than the Engine Start Rate, crank time may be less than 3 seconds. Failure to wait 3 minutes (180 seconds) between cranks. Wait 3 minutes of rest time before the next crank, to allow the battery and charger to cool down. Clamps are not making a good Check for poor connection at connection.Page 2CONTENTSIMPORTANT SAFETY INSTRUCTIONS .....4PERSONAL SAFETY PRECAUTIONS.....4ASSEMBLY INSTRUCTIONS ..... 5GROUNDING AND AC POWER CORD CONNECTIONS .....5FEATURES/CONTROL PANEL .....5OPERATING INSTRUCTIONS .....6MAINTENANCE AND CARE .....8TROUBLESHOOTING AND ERROR CODES .....9BEFORE RETURNING FOR REPAIRS .....10CONTENIDOSINSTRUCCIONES IMPORTANTES DE SEGURIDAD ..... 11PRECAUCIONES DE SEGURIDAD PERSONAL .....12INSTRUCCIONES DE MONTAJE .....12CONEXIONES A TIERRA Y ENERGA DE CA ..... 12CARACTERISTCAS/PANEL DE CONTROL .....12INSTRUCCIONES DE OPERACIN .....14MANTENIMIENTO Y CUIDADO ..... 16LOCALIZACIN Y RESOLUCIN DE PROBLEMAS Y CODIGO DE ERROR .....17ANTES DE DEVOLVER A REPARACIONES .....19Page 3DIEHARD THREE-YEAR FULL WARRANTYWhen operated and maintained according to all supplied instructions, if this DieHardproduct fails due to a defect in material or workmanship within 3 years from the date of purchase, return it to any DieHard outlet in the United States for free replacement.This warranty gives you specic legal rights, and you may also have other rights which vary from state to state.Sears Brands Management Corporation, Hoffman Estates, IL 60179FOR CUSTOMER ASSISTANCE OR REPLACEMENT PARTS, CALL 1-800-SEARS-64 (1-800-732-7764) TOLL-FREE FROM 7 AM TO 5 PM CT. DIEHARD TRES AOS DE GARANTA TOTALCuando se opere o maneje con las debidas precauciones de acuerdo a las instrucciones, si el DieHard falla en alguno de sus componentes de fabricacin durante los 3 aos contados a partir de la fecha de compra, regresarlo al autoservicio DieHard en los estados unidos para reemplazar el aparato sin costo alguno.Esta garanta le otorga derechos legales especcos, as como otros derechos, que varan de estado a estado.Sears Brands Management Corporation, Hoffman Estates, IL 60179PARA ASISTENCIA AL CLIENTE O REPUESTOS, LLAME GRATIS AL 7 AM-5 PM CT LUNES A VIERNES: 1-800-SEARS-64 (1-800-732-7764) Page 4 4 IMPORTANT SAFETY INSTRUCTIONSWARNING RISK OF EXPLOSIVE GASESWORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL OPERATION. FOR THIS REASON, IT IS IMPORTANT THAT YOU FOLLOW THESE INSTRUCTIONS EACH TIME YOU USE THE CHARGER.To reduce the risk of a battery explosion, follow these instructions and those published by the manufacturer of the battery and any equipment you intend to use in the vicinity of the battery. Review the cautionary markings on these products and on the engine.WARNING: Pursuant to California Proposition 65, this product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling. Keep out of reach of children. Use the battery charger on LEAD-ACID, GEL and AGM-type rechargeable batteries with recommended rated capacities of 12Ah (6V) and 22-59Ah (12V), as used in automobiles, trucks, tractors, airplanes, vans, RVs, trolling motors, etc. This charger is not intended to supply power to low-voltage electrical systems, other than in a motor-starting application.WARNING: Do not use battery charger with dry cell batteries that are commonly used with home appliances. These batteries may burst and cause injury or damage to property. Use only attachments recommended or sold by the battery chargers manufacturer. Use of non-recommended attachments may result in a re, electric shock or injury. Locate the battery chargers power cord so it cannot be stepped on, tripped over, or subjected to damage or stress. Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged in any way. Take it to a qualied professional for inspection and repair. Do not disassemble the charger. Take it to a qualied professional when service or repair is required. To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning. Do not use an extension cord. Always charge the battery in a well-ventilated area. Do not set the charger on ammable materials, such as carpeting, upholstery, paper, cardboard, etc. NEVER smoke or allow sparks or ames in the vicinity of the battery or engine. WARNING: RISK OF EXPLOSIVE GAS. Operate the charger as far away from the battery as DC charger cables permit. Do not expose the charger to rain or snow. NEVER charge a frozen battery. NEVER set a battery on top of the charger. NEVER place the charger directly above a battery being charged. Gases from the battery will corrode and damage the charger. NEVER touch the battery clamps together when the charger is energized. When disconnecting the battery charger, pull by the plug, not by the cord. Pulling on the cord may cause damage to the cord or plug. Do not operate the charger with a damaged cord or plug. NEVER allow battery acid to drip onto the charger. NEVER overcharge a battery.PERSONAL SAFETY PRECAUTIONS Wear complete eye protection and protective clothing when working near lead-acid batteries. Always have someone nearby for help. Have plenty of fresh water, soap and baking soda nearby for use, in case battery acid contacts your eyes, skin, or clothing. Wash immediately with soap and water and seek medical attention. If battery acid comes in contact with eyes, ush eyes immediately for a minimum 10 minutes and get medical attention. Neutralize any acid spills thoroughly with baking soda before attempting to clean up. Remove all personal metal items from your body, such as rings, bracelets, necklaces and watches. A battery can produce a short circuit current high enough to weld a ring to metal, causing a severe burn. Do not drop a metal tool onto the battery. If it is necessary to remove the battery from the vehicle to charge it, always remove the grounded terminal rst. Page 5 6 BATTERY TYPE BUTTON This selects the type of battery to charge. Standard Used in cars, trucks and motorcycles, these batteries have vent caps and are often marked low maintenance or maintenance-free. This type of battery is designed to deliver quick bursts of energy (such as starting engines) and has a greater plate count. The plates are thinner and have somewhat different material composition. Regular batteries should not be used for deep-cycle applications. AGM The Absorbed Glass Mat construction allows the electrolyte to be suspended in close proximity with the plates active material. In theory, this enhances both the discharge and recharge efciency. The AGM batteries are a variant of Sealed VRLA (valve regulated lead-acid) batteries. Popular uses include high-performance engine starting, power sports, deep-cycle, solar and storage batteries. Gel The electrolyte in a GEL cell has a silica additive that causes it to set up or stiffen. The recharge voltages on this type of cell are lower than those for other styles of lead-acid battery. This is probably the most sensitive cell in terms of adverse reactions to overvoltage charging. Gel batteries are best used in VERY DEEP cycle application and may last a bit longer in hot weather applications. If the wrong battery charger is used on a gel cell battery, poor performance and premature failure will result.OPERATING INSTRUCTIONSWARNING: A spark near battery may cause a battery explosion. IMPORTANT: Do not start the vehicle with the charger connected to the AC outlet, or it could result in damage to the chargerCHARGING A BATTERY IN THE VEHICLE1. Turn off all the vehicles accessories.2. Keep the hood open.3. Clean the battery terminals.4. Place the charger on a dry, non-ammable surface.5. Lay the AC/DC cables away from any fan blades, belts, pulleys and other moving parts.6. For a negative-ground vehicle (as in most vehicles), connect the chargers POSITIVE (RED) clamp to the POSITIVE (POS, P, +) battery post. Next, connect the chargers NEGATIVE (BLACK) clamp to the vehicle chassis or engine block, away from the battery.7. For a positive-ground vehicle, connect the chargers NEGATIVE (BLACK) clamp to the NEGATIVE (NEG, N, -) battery post. Next, connect the chargers POSITIVE (RED) clamp to the vehicle chassis or engine block away from the battery. NEVER connect any clamps to the carburetor, fuel lines or sheet-metal body parts.8. Connect the charger to an electrical outlet.9. Select the battery type and charge rate.10. When charging is complete, disconnect the charger from the AC power, remove the clamps from the vehicles chassis, and then remove the clamp from the battery terminal.CHARGING A BATTERY OUTSIDE OF THE VEHICLE1. Place battery in a well-ventilated area.2. Clean the battery terminals.3. Connect a 24-inch long, 6-gauge (AWG) insulated battery cable to the NEGATIVE (NEG, N, -) battery post (i.e., jumper cable) (not provided).4. Connect the POSITIVE (RED) clamp to the POSITIVE (POS, P, +) battery post. 5. Position yourself and the negative post extension cable as far away from the battery as possible, and connect the NEGATIVE (BLACK) clamp to the cables free end.6. Connect the charger to the electrical outlet.7. Select the battery type and charge rate.8. When charging is complete, disconnect the charger from the AC power, disconnect the negative clamp, and nally the positive clamp.9. A marine (boat) battery must be removed and charged on shore.NOTE: This charger is equipped with an auto-start feature. Current will not be supplied to the battery clamps until a battery is properly connected. The clamps will not spark if touched together. AUTOMATIC CHARGING MODEWhen an Automatic Charge is performed, the charger switches to the maintain mode automatically after the battery is charged. Page 6 5 ASSEMBLY INSTRUCTIONSRemove all cord wraps and uncoil the cables prior to using the battery charger. GROUNDING AND AC POWER CORD CONNECTIONS This battery charger is for use on a nominal 120 volt circuit and has a grounded plug. The charger must be grounded, to reduce the risk of electric shock. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances. The plug pins must t the receptacle (outlet). Do not use with an ungrounded system.NOTE: Pursuant to Canadian Regulations, use of an adapter plug is not allowed in Canada. Use of an adapter plug in the United States is not recommended and should not be used.USING AN EXTENSION CORDThe use of an extension cord is not recommended. If you must use an extension cord, follow these guidelines: Pins on plug of extension cord must be the same number, size, and shape as those of plug on charger. Ensure that the extension cord is properly wired and in good electrical condition. Wire size must be large enough for the AC ampere rating of charger, as specied below: Length of cord (feet)25 50 100 150AWG* size of cord18 16 14 12*AWG-American Wire GaugeFEATURES/CONTROL PANELDIGITAL DISPLAYThe Digital Display gives a digital indication of voltage, % of charge or time. The display will show the battery VOLTAGE when the charger is not charging a battery. When it goes into charging mode, the display will automatically change to ON (to show charging has started) and either 6 or 12 (the voltage of the battery, determined by the charger). If you manually stop the charging process (by pressing the Rate Selection button) before the battery is fully charged, the display will show Off.NOTE: During charging, the display will go into sleep mode and will not show the percentage of charge or voltage of the battery. To turn the display back on, press the Display button.DISPLAY MODE BUTTONUse this button to set the function of the digital display to one of the following: Battery % The digital display shows an estimated charge percentage of the battery connected to the chargers battery clamps, when charging. Alternator % (12V only) The digital display shows an estimated output percentage of the vehicles charging system connected to the chargers battery clamps, compared to a properly functioning system. The alternator percent range is from 0% to 100%. Readings below 0% (13.2 volts) will read LO and readings above 100% (14.6 volts) will read HI. If you get a HI or LO reading, have the electrical system checked by a qualied technician. Voltage The Digital Display shows the voltage at the charger battery clamps, in DC volts.RATE SELECTIONUse this button to select one of the following: 62A CHARGE/MAINTAIN For charging small and large batteries. Not recommended for industrial applications. 3012A BOOST This setting may be used for a quick boost, prior to using the engine start setting. Do not use this setting to charge your battery. 80A ENGINE START Provides additional amps for cranking an engine with a weak or run-down battery. Always use in combination with a battery.NOTE: Once the charger has started charging the battery, if you press the Rate Selection button once, the output current is shut off and the display with show OFF and then the battery voltage. If you press the Rate Selection button again, the current will go back on at the same setting it was when it was turned off. LED INDICATORSCLAMPSREVERSED(red)LEDashing:The connections are reversed.CHARGING (yellow) LED lit: The charger is charging the battery.CHARGING(yellow)LEDashing: The charger is in abort mode.CHARGED/MAINTAINING (green) LED pulsing: The battery is fully charged and the charger is in maintain mode.NOTE: See the Operating Instructions section for a complete description of the charger modes.Page 7 7 ABORTED CHARGEIf charging cannot be completed normally, charging will abort. When charging aborts, the chargers output is shut off and the CHARGING(yellow) LED will ash. The digital display will show an error code (see the Troubleshooting section for a description of the error codes). To reset after an aborted charge, unplug the charger from the AC outlet, wait a few moments and then plug it back in.DESULFATION MODEDesulfation could take 8 to 10 hours. If desulfation fails, charging will abort and the CHARGING(yellow) LED will ash.COMPLETION OF CHARGECharge completion is indicated by the CHARGED/MAINTAINING (green) LED. When pulsing, the charger has switched to the maintain mode of operation. MAINTAIN MODE (FLOAT-MODE MONITORING)When the CHARGED/MAINTAINING (green) LED is lit, the charger has started maintain mode. In this mode, the charger keeps the battery fully charged by delivering a small current when necessary. If the charger has to provide its maximum maintain current for a continuous 12 hour period, it will go into abort mode (see Aborted Charge section). This is usually caused by a drain on the battery or the battery could be bad. MAINTAINING A BATTERYThe 28.71326 charges and maintains both 6 and 12 volt batteries.NOTE: The maintain mode technology allows you to safely charge and maintain a healthy battery for extended periods of time. However, problems with the battery, electrical problems in the vehicle, improper connections or other unanticipated conditions could cause excessive current draws. As such, occasionally monitoring your battery and the charging process is required.USING THE ENGINE START FEATUREYour battery charger can be used to jump start your car if the battery is low. Follow all safety instructions and precautions for charging your battery. Wear complete eye protection and protective clothing. WARNING: Using the ENGINE START feature WITHOUT a battery installed in the vehicle will damage the vehicles electrical system. NOTE: If you have charged the battery and it still will not start your car, do not use the Engine Start feature, or it will damage the vehicles electrical system. Have the battery checked.1. With the charger unplugged from the AC outlet, connect the charger to the battery following the instructions given in the CHARGING A BATTERY IN THE VEHICLE section.2. Plug the charger AC power cord into the AC outlet.3. With the charger plugged in and connected to the battery and chassis, press the RATE SELECTION button until the ENGINE START LED is lit. 4. Crank the engine until it starts or 3 seconds pass. If the engine does not start, wait 3 minutes before cranking again. This allows the charger and battery to cool down.NOTE: During extremely cold weather, or if the battery is under 2 volts, charge the battery for 5 minutes before cranking the engine.5. If the engine fails to start, charge the battery for 5 more minutes before attempting to crank the engine again.6. After the engine starts, unplug the AC power cord before disconnecting the battery clamps from the vehicle.7. Clean and store the charger in a dry location.NOTE: If the engine does turn over but never starts, there is not a problem with the starting system; there is a problem somewhere else with the vehicle. STOP cranking the engine until the other problem has been diagnosed and corrected.ENGINE STARTING NOTESDuring the starting sequence listed above, the charger is set to one of three states: Wait for cranking While waiting for cranking, the digital display shows rdy. The charger waits until the engine is actually being cranked before delivering the amps for engine start. Cranking When cranking is detected, the charger will automatically deliver up to its maximum output as required by the starting system for up to 5 seconds. The digital display shows a countdown of the remaining crank time. Cool Down After cranking, the charger enters a mandatory 3 minute (180 second) cool down state. The digital display indicates the remaining cool down time in seconds. It starts at 180 and counts down to 0. After 3 minutes, the digital display will change from displaying the countdown to displaying rdy. 50%(2)50% found this document useful (2 votes)31K viewsSaveSave Diehard Battery Charger Owners Manual 28.71323 For Later50%50% found this document useful, undefinedOPERATORS MANUAL Battery Charger Model No. 28.71219 Read and follow all Safety Rules and Operating Instructions before Every Use of this Product. Save these instructions. Sears Brands Management Corporation, Hoffman Estates, IL 60179 U.S.A.DieHard THREe-Year Full Warranty When operated and maintained according to all supplied instructions, if this DieHard product fails due to a defect in material or workmanship within 3 years from the date of purchase, return it to any DieHard outlet in the United States for free replacement. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.1. 1.4 1.5 1.6 1.7 1.8 1.9 IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS. This manual contains important safety and operating instructions. RISK OF ELECTRIC SHOCK OR FIRE. 1.1 Keep out of reach of children. 1.2 Do not expose the charger to rain or snow. 1.3 Use only recommended attachments. Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock or injury to persons or damage to property.1.11 1.12 2. 2.3 2.4 2.5 2.6 RISK OF EXPLOSIVE GASES. 1.10 WORKING IN THE VICINITY OF A LEADACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE CHARGER. To reduce the risk of a battery explosion, follow these instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of the battery.2.7 2.8 2.9 2.10 2.11 3. 3.2 3.3 3.4 3.5 Consider having someone nearby to come to your aid when you work near a lead-acid battery. Have plenty of fresh water and soap nearby in case battery acid contacts your skin, clothing or eyes. Wear complete eye and body protection, including safety goggles and protective clothing. Avoid touching your eyes while working near the battery. If battery acid contacts your skin or clothing, immediately wash the area with soap and water.3.6 3.7 4. 4.2 4.3 4.4 4.5 5. 5.1 5.2 6. and charger. Study all of the battery manufacturers specific precautions while charging and recommended rates of charge. Determine the voltage of the battery by referring to the vehicle owners manual and make sure that the output voltage selector switch is set to the correct voltage. If the charger has an adjustable charge rate, charge the battery in the lowest rate first. Make sure that the charger cable clips make tight connections.6.1 6.2 6.3 6.4 6.5 6.6 6.7 Position the AC and DC cables to reduce the risk of damage by the hood, door and moving or hot engine parts. NOTE: If it is necessary to close the hood during the charging process, ensure that the hood does not touch the metal part of the battery clips or cut the insulation of the cables. Stay clear of fan blades, belts, pulleys and other parts that can cause injury. Check the polarity of the battery posts.6.8 6.9 7. 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 When disconnecting the charger, turn all switches to off (if applicable), disconnect the AC cord, remove the clip from the vehicle chassis and then remove the clip from the battery terminal. See CALCULATING CHARGE TIME for length of charge information. FOLLOW THESE STEPS WHEN BATTERY IS OUTSIDE VEHICLE. A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY: Check the polarity of the battery posts.8. ac power cord connections RISK OF ELECTRIC SHOCK OR FIRE. 8.1 This battery charger is for use on a nominal 120-volt circuit. The plug must be plugged into an outlet that is properly installed in accordance with all local codes and ordinances. The plug pins must fit the receptacle (outlet). 8.2 Never alter the AC cord or plug provided if it does not fit the outlet, have a proper outlet installed by a qualified electrician..1 Amp/Volt Selector Switch 2A, 12V AMP/VOLT SELECTOR 4A, 6V 10.2 LED Display CHECK BATTERY (red) LED lit: Indicates the battery is not properly connected to the charger. CHECK BATTERY (red) LED blinking: Indicates the charger is in abort mode. CHARGING (yellow) LED lit: Indicates the charger is charging the battery. CHARGED (green) LED lit: Indicates the battery is fully charged and the charger is in maintain mode.3. Set the Amp/Volt Selector switch to the proper setting for the battery being charged. 4. Connect the AC power following the precautions listed in section 8. 5. If youve connected everything correctly, the CHARGING (yellow) LED should be lit indicating that the charger is charging. If the CHARGING (yellow) LED does not light or if the CHECK BATTERY (red) LED is lit, check the connections or have the battery checked/replaced.5. Connect the cable to the end of the charger output cord. Take care to keep the wires and plug away from metal and moving parts. 6. Plug the charger power cord into a 120V AC electrical wall outlet. Make sure to place the charger on a dry, non-flammable surface. 12V Accessory Plug Charge or maintain your battery without lifting the hood. 1. Connect the end of the 12V Accessory Plug Cable QuickConnect to the charger. 2. Insert the 12V accessory plug into the 12V accessory outlet. 3.the battery could be bad. Make sure there are no loads on the battery. If there are, remove them. If there are none, have the battery checked or replaced. Maintaining a Battery The 71219 is a battery maintainer that maintains both 6 and 12 volt batteries, keeping them at full charge. It can charge small batteries and maintain both small and large batteries. If you are maintaining a fully charged large battery, you will be properly utilizing the battery charger.12.1 Charging Times Battery Condition 2 Amp, 12 Volt Battery 50% Discharged Ampere Hour Battery Capacity Approximate Average Charge Time in Hours 100% Discharged 10 3.2 6.2 12 4.0 7.5 20 6.4 12.4 Battery Condition 4 Amp, 6 Volt Battery 50% Discharged Ampere Hour Battery Capacity Approximate Average Charge Time in Hours 13. 13.1 13.2 13.3 13.4 13.5 100% Discharged 10 1.6 3.2 12 2.0 4.0 20 3.2 6.14. 14.1 14.2 14.3 14.4 15. Moving and STORAGE INSTRUCTIONS Store the charger unplugged, in an upright condition. The AC cord will still conduct electricity until it is unplugged from the outlet. Store inside, in a dry, cool place. Do not store the clips on or around metal, clipped together or clipped to cables. If the charger is moved around the shop or transported to another location, take care to avoid/prevent damage to the cords, clips and charger.PROBLEM POSSIBLE CAUSE REASON/SOLUTION CHECK BATTERY (red) LED is blinking Charger is in abort mode. Battery clips do not spark when touched together. The charger is equipped No problem; this is a with an auto-start feature. normal condition. It will not supply current to the battery clips until a battery is properly connected. Meaning, the clips will not spark if touched together. 16. 16.1 16.2 See Aborted Charge in the OPERATING INSTRUCTIONS Section.Page 2 3 IMPORTANT SAFETY INSTRUCTIONS 1. SAVE THESE INSTRUCTIONS. This manual contains important safety and operating instructions.RISK OF ELECTRIC SHOCK OR FIRE.Keep out of reach of children.1.1 Do not expose the charger to rain or 1.2 snow.Use only recommended attachments. 1.3 Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of re, electric shock or injury to persons or damage to property.To reduce the risk of damage to the electric plug or cord, pull by 1.4 the plug rather than the cord when disconnecting the charger.An extension cord should not be used unless absolutely 1.5 necessary. Use of an improper extension cord could result in a risk of re and electric shock. If an extension cord must be used, make sure:That the pins on the plug of the extension cord are the same number, size and shape as those of the plug on the charger.That the extension cord is properly wired and in good electrical condition.That the wire size is large enough for the AC ampere rating of the charger as specied in section 8.To reduce the risk of electric shock, unplug the charger from the 1.6 outlet before attempting any maintenance or cleaning. Simply turning off the controls will not reduce this risk.Do not operate the charger with a damaged cord or plug; have 1.7 the cord or plug replaced immediately by a qualied service person. (Call customer service at 1-800-732-7764.)Do not operate the charger if it has received a sharp blow, been 1.8 dropped or otherwise damaged in any way; take it to a qualied service person. (Call customer service at 1-800-732-7764.)Do not disassemble the charger; take it to a qualied service 1.9 person when service or repair is required. Incorrect reassembly may result in a risk of re or electric shock. (Call customer service at 1-800-732-7764.)Page 3 2 DIEHARD THREE-YEAR FULL WARRANTYWhen operated and maintained according to all supplied instructions, if this DieHard product fails due to a defect in material or workmanship within 3 years from the date of purchase, return it to any DieHard outlet in the United States for free replacement.This warranty gives you specic legal rights, and you may also have other rights which vary from state to state.Sears Brands Management Corporation, Hoffman Estates, IL 60179FOR CUSTOMER ASSISTANCE OR REPLACEMENT PARTS, CALL TOLL-FREE FROM 7 AM TO 5 PM CT MONDAY THROUGH FRIDAY: 1-800-732-7764IMPORTANT: READ AND SAVE THIS SAFETY AND INSTRUCTION MANUAL.SAVE THESE INSTRUCTIONS This manual will show you how to use your charger safely and effectively. Please read, understand and follow these instructions and precautions carefully, as this manual contains important safety and operating instructions. The safety messages used throughout this manual contain a signal word, a message and an icon.The signal word indicates the level of the hazard in a situation.Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or bystanders.Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or bystanders.Indicates a potentially hazardous situation which, if not avoided, could result in moderate or minor injury to the operator or bystanders.Indicates a potentially hazardous situation which, if not avoided, could result in damage to the equipment or vehicle or property damage.Pursuant to California Proposition 65, this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands before handling.Page 4 4 RISK OF EXPLOSIVE GASES.WORKING IN THE VICINITY OF A LEAD-1.10 ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF UTMOST IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE CHARGER.To reduce the risk of a battery explosion, follow these 1.11 instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of the battery. Review the cautionary markings on these products and on the engine.This charger employs parts, such as switches and circuit 1.12 breakers, that tend to produce arcs and sparks. If used in a garage, locate this charger 18 inches or more above oor level.PERSONAL PRECAUTIONS2. RISK OF EXPLOSIVE GASES.NEVER smoke or allow a spark or ame in the 2.1 vicinity of a battery or engine.Remove personal metal items such as rings, 2.2 bracelets, necklaces and watches when working with a lead-acid battery. A lead-acid battery can produce a short-circuit current high enough to weld a ring or the like to metal, causing a severe burn.Be extra cautious, to reduce the risk of dropping a metal tool 2.3 onto the battery. It might spark or short-circuit the battery or other electrical part that may cause an explosion.Use this charger for charging LEAD-ACID batteries only. It is 2.4 not intended to supply power to a low voltage electrical system other than in a starter-motor application. Do not use this battery charger for charging dry-cell batteries that are commonly used with home appliances. These batteries may burst and cause injury to persons and damage to property.NEVER charge a frozen battery.2.5 NEVER overcharge a battery.2.6 Page 5 6 and charger. Study all of the battery manufacturers specic precautions while charging and recommended rates of charge.Determine the voltage of the battery by referring to the vehicle 3.6 owners manual and make sure that the output voltage selector switch is set to the correct voltage. If the charger has an adjustable charge rate, charge the battery in the lowest rate rst.Make sure that the charger cable clips make tight connections.3.7 CHARGER LOCATION4. RISK OF EXPLOSION AND CONTACT WITH BATTERY ACID.Locate the charger as far 4.1 away from the battery as the DC cables permit.Never place the charger directly above the battery being charged; 4.2 gases from the battery will corrode and damage the charger.Do not set the battery on top of the charger.4.3 Never allow battery acid to drip onto the charger when reading 4.4 the electrolyte specic gravity or lling the battery.Do not operate the charger in a closed-in area or restrict the 4.5 ventilation in any way.DC CONNECTION PRECAUTIONS5. Connect and disconnect the DC output clips only after setting 5.1 all of the charger switches to the off position (if applicable) and removing the AC plug from the electrical outlet. Never allow the clips to touch each other.Attach the clips to the battery and chassis, as indicated in 5.2 sections 6 and 7.FOLLOW THESE STEPS WHEN BATTERY IS INSTALLED 6. IN VEHICLE.A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY:Page 6 5 Consider having someone nearby to come to your aid when you 2.7 work near a lead-acid battery.Have plenty of fresh water and soap nearby in case battery acid 2.8 contacts your skin, clothing or eyes.Wear complete eye and body protection, including safety 2.9 goggles and protective clothing. Avoid touching your eyes while working near the battery.If battery acid contacts your skin or clothing, immediately 2.10 wash the area with soap and water. If acid enters your eye, immediately ood the eye with cold running water for at least 10 minutes and get medical attention right away.If battery acid is accidentally swallowed, drink milk, the whites of 2.11 eggs or water. DO NOT induce vomiting. Seek medical attention immediately.PREPARING TO CHARGE3. RISK OF CONTACT WITH BATTERY ACID. BATTERY ACID IS A HIGHLY CORROSIVE SULFURIC ACID.If it is necessary to remove the battery 3.1 from the vehicle to charge it, always remove the grounded terminal rst. Make sure all of the accessories in the vehicle are off to prevent arcing.Be sure the area around the battery is well ventilated while the 3.2 battery is being charged.Clean the battery terminals before charging the battery. During 3.3 cleaning, keep airborne corrosion from coming into contact with your eyes, nose and mouth. Use baking soda and water to neutralize the battery acid and help eliminate airborne corrosion. Do not touch your eyes, nose or mouth.Add distilled water to each cell until the battery acid reaches the 3.4 level specied by the battery manufacturer. Do not overll. For a battery without removable cell caps, such as valve regulated lead acid batteries (VRLA), carefully follow the manufacturers recharging instructions.Read, understand and follow all instructions for the charger, 3.5 battery, vehicle and any equipment used near the battery Page 7 7 Position the AC and DC cables to reduce the risk of damage 6.1 by the hood, door and moving or hot engine parts. NOTE: If it is necessary to close the hood during the charging process, ensure that the hood does not touch the metal part of the battery clips or cut the insulation of the cables.Stay clear of fan blades, belts, pulleys and other parts that can 6.2 cause injury.Check the polarity of the battery posts. The POSITIVE (POS, 6.3 P, +) battery post usually has a larger diameter than the NEGATIVE (NEG, N, -) post.Determine which post of the battery is grounded (connected) to 6.4 the chassis. If the negative post is grounded to the chassis (as in most vehicles), see step 6.5. If the positive post is grounded to the chassis, see step 6.6.For a negative-grounded 6.5 vehicle, connect the POSITIVE (RED) clip from the battery charger to the POSITIVE (POS, P, +) ungrounded post of the battery. Connect the NEGATIVE (BLACK) clip to the vehicle chassis or engine block away from the battery. Do not connect the clip to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.For a positive-grounded vehicle, connect the NEGATIVE 6.6 (BLACK) clip from the battery charger to the NEGATIVE (NEG, N, -) ungrounded post of the battery. Connect the POSITIVE (RED) clip to the vehicle chassis or engine block away from the battery. Do not connect the clip to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.Connect charger AC supply cord to electrical outlet.6.7 NEGATIVE GROUNDED SYSTEMTo ensure that you are using the DieHard 28.71219 battery charger safely and following all necessary precautions, you can follow these steps:1. Read and Save the Instructions: It is important to read and save the safety and operating instructions provided in the manual.2. Use Recommended Attachments: Only use attachments recommended or sold by the battery charger manufacturer to avoid the risk of fire, electric shock, or injury.3. Properly Disconnect the Charger: When disconnecting the charger, pull the plug rather than the cord to reduce the risk of damage to the electric plug or cord.4. Use Extension Cord Properly (if necessary): If you need to use an extension cord, ensure that it has the same number, size, and shape of pins as the charger's plug. Also, make sure the extension cord is properly wired, in good electrical condition, and has a wire size suitable for the charger's AC ampere rating.5. Unplug Before Maintenance or Cleaning: Before performing any maintenance or cleaning, unplug the charger from the outlet to reduce the risk of electric shock.6. Replace Damaged Cord or Plug: If the charger's cord or plug is damaged, have it replaced immediately by a qualified service person.7. Avoid Disassembling the Charger: Do not disassemble the charger yourself. If service or repair is required, take it to a qualified service person to avoid the risk of fire or electric shock.8. Take Safety Precautions when Working with Batteries: When working near a lead-acid battery, have someone nearby to assist you. Wear complete eye and body protection, including safety goggles and protective clothing. In case battery acid contacts your skin, clothing, or eyes, have fresh water and soap nearby for immediate washing.9. Properly Prepare to Charge the Battery: If you need to remove the battery from the vehicle to charge it, always remove the grounded terminal first. Ensure that the area around the battery is well-ventilated during the charging process. Clean the battery terminals before charging, using baking soda and water to neutralize battery acid and prevent contact with your eyes, nose, and mouth. Add distilled water to each cell as specified by the battery manufacturer, without overfilling.10. Follow Instructions for Charger, Battery, and Equipment: Read, understand, and follow all instructions provided for the charger, battery, vehicle, and any equipment used near the battery.By following these steps, you can use the DieHard 28.71219 battery charger safely and minimize any potential risks.OPERATORS MANUAL / MANUAL DEL USUARIO 6

with a 12v charger. Die hard manual battery charger.