wiring a pressure transducer

wiring a pressure transducer is a critical step in ensuring accurate pressure measurement and reliable system performance in various industrial and commercial applications. A pressure transducer converts pressure into an electrical signal, which can be used by control systems, data acquisition devices, or display units. Proper wiring is essential to avoid signal interference, ensure sensor accuracy, and maintain system safety. This article provides a comprehensive guide on wiring a pressure transducer, covering the types of pressure transducers, wiring basics, common wiring configurations, and troubleshooting tips. Understanding these fundamentals will help technicians and engineers optimize their pressure measurement setups. The following sections will delve into the details of wiring techniques, necessary tools, and best practices for successful installation.

Understanding Pressure Transducers

Before wiring a pressure transducer, it is vital to understand what a pressure transducer is and how it functions within a system. A pressure transducer is a sensor that measures pressure and converts it into an electrical signal, typically voltage or current. This signal can then be interpreted by electronic devices such as controllers or data loggers. Pressure transducers come in various types, including piezoelectric, capacitive, and strain gauge-based sensors, each with different wiring requirements and signal outputs.

Types of Pressure Transducers

Different pressure transducers have distinct operating principles and wiring needs. Common types include:

- **Strain Gauge Transducers:** Use strain gauges bonded to a diaphragm that

deforms under pressure, altering electrical resistance.

- **Piezoelectric Transducers:** Generate a charge proportional to pressure changes, often requiring special signal conditioning.
- **Capacitive Transducers:** Detect pressure-induced changes in capacitance, which are then converted to an electrical signal.

Each type typically outputs either a voltage signal (e.g., 0-5 V) or a current signal (e.g., 4-20 mA), influencing the wiring method.

Signal Types and Wiring Implications

Understanding the signal type is crucial when wiring a pressure transducer. Voltage output sensors usually have three wires: power, ground, and signal. Current output sensors often use two wires, where the current loop supplies power and carries the signal simultaneously. Some transducers might also include shield wires to protect against electromagnetic interference, which must be connected correctly to maintain signal integrity.

Essential Tools and Materials for Wiring

Proper tools and materials are necessary to ensure a secure and reliable wiring job when installing a pressure transducer. Using the right equipment reduces the risk of damage to the sensor or wiring errors.

Required Tools

Key tools needed for wiring a pressure transducer include:

- **Wire Strippers:** For removing insulation without damaging the conductor.
- **Multimeter:** To verify voltage, current, and continuity during installation and troubleshooting.
- **Screwdrivers:** For tightening terminal screws or connectors.
- **Crimping Tool:** If crimp terminals are used for wire connections.
- **Heat Shrink Tubing or Electrical Tape:** For insulating wire joints and ensuring durability.

Materials Needed

In addition to tools, the following materials are essential for wiring a pressure transducer:

- **Appropriate Gauge Wire:** Typically 18 to 22 AWG, depending on current and distance.
- **Connectors or Terminal Blocks:** To facilitate secure and organized connections.
- **Shielded Cable:** Recommended in environments with high electrical noise.
- **Manufacturer’s Wiring Diagram:** Critical for correct wire identification and connection.

Step-by-Step Wiring Process

The process of wiring a pressure transducer involves several critical steps to ensure proper installation and accurate signal transmission. Following a systematic approach reduces errors and improves system reliability.

Step 1: Identify Wiring Terminals

Refer to the pressure transducer’s datasheet or manual to identify the power, ground, signal, and shield terminals. These designations vary by manufacturer and sensor type.

Step 2: Prepare the Wires

Cut wires to the required length, strip the insulation carefully, and, if necessary, attach connectors or terminals. Ensure wires are free of damage and properly labeled if multiple sensors are involved.

Step 3: Connect Power and Ground

Connect the positive power supply wire to the transducer’s power terminal and the ground wire to the sensor’s ground terminal. Use the recommended voltage and polarity as specified by the manufacturer.

Step 4: Connect the Signal Wire

Attach the signal output wire to the corresponding terminal on the transducer and to the input device receiving the pressure data. For current loop sensors, this may involve wiring the device in series with the power supply.

Step 5: Connect Shield Wire (If Applicable)

Connect the shield wire to earth ground at one end only to prevent ground loops, which can introduce noise into the signal.

Step 6: Verify Connections

Double-check all wiring against the schematic and manufacturer specifications to ensure accuracy.

Step 7: Power On and Test

Apply power to the system and use a multimeter or signal analyzer to confirm the transducer outputs the expected signal range corresponding to pressure levels.

Common Wiring Configurations

Different pressure transducers require specific wiring configurations depending on their output signal types and application requirements. Understanding common wiring schemes aids in proper installation.

Three-Wire Voltage Output Configuration

Most voltage output pressure transducers use a three-wire setup:

1. **Power Supply Wire:** Provides excitation voltage, usually 5V or 10V DC.
2. **Ground Wire:** Completes the electrical circuit and serves as a reference.
3. **Signal Wire:** Carries the voltage output proportional to pressure.

This configuration is straightforward but may be susceptible to noise in electrically noisy environments, making shielding important.

Two-Wire Current Loop Configuration (4-20 mA)

Two-wire pressure transducers combine power and signal in a current loop, typically 4-20 mA, which is less sensitive to electrical noise and voltage drops over long distances. Wiring involves:

- Connecting the positive power supply to the positive terminal of the transducer.
- Connecting the negative terminal of the transducer to the input device or controller, which completes the loop back to the power supply.

This loop carries both power and signal in series, simplifying wiring and enhancing signal integrity.

Four-Wire Configuration

Some transducers use a four-wire setup for separate excitation and sensing lines. This reduces errors caused by voltage drops in the wiring. The four wires typically include:

- Excitation positive
- Excitation negative
- Signal positive
- Signal negative

Proper wiring is crucial for maintaining measurement accuracy in this configuration.

Troubleshooting Wiring Issues

Wiring errors or faults in pressure transducer installations can lead to inaccurate readings or sensor damage. Systematic troubleshooting helps identify and correct common issues.

Common Wiring Problems

Typical wiring-related issues include:

- Incorrect wire connections causing reversed polarity or signal loss.
- Loose or corroded terminals leading to intermittent signals.

- Improper grounding or shielding resulting in electrical noise interference.
- Using incorrect voltage or current supply damaging the sensor.

Troubleshooting Steps

1. **Visual Inspection:** Check all connections for proper placement, tightness, and damage.
2. **Use a Multimeter:** Verify power supply voltage, ground continuity, and signal output.
3. **Check Wiring Against Diagrams:** Confirm wiring matches the manufacturer’s schematic.
4. **Test with Known Good Sensor:** Substitute the transducer to isolate wiring issues.
5. **Inspect Shielding:** Ensure shield wires are properly connected and not causing ground loops.

Safety Considerations and Best Practices

Adhering to safety protocols and best practices when wiring a pressure transducer protects personnel and equipment, and ensures reliable operation.

Safety Precautions

- Always disconnect power before beginning wiring work to prevent electrical shock.
- Use insulated tools to reduce the risk of accidental shorts or shocks.
- Follow manufacturer’s voltage and current specifications strictly to avoid sensor damage.
- Ensure proper grounding to minimize electrical interference and static discharge.

Best Practices for Wiring

Implementing the following best practices improves wiring quality and sensor performance:

- Use shielded cables in noisy industrial environments to protect signal integrity.
- Keep wiring runs as short as possible to reduce voltage drop and noise pickup.
- Label wires clearly for ease of maintenance and troubleshooting.
- Secure cables to prevent mechanical strain on connections.
- Regularly inspect wiring and connectors for wear or damage as part of maintenance routines.

Frequently Asked Questions

What is a pressure transducer and how does it work?

A pressure transducer is a device that converts pressure measurements into electrical signals. It works by sensing pressure through a diaphragm or sensing element, which changes electrical properties like resistance or capacitance, generating a corresponding electrical output.

What are the common wiring configurations for pressure transducers?

Common wiring configurations include 2-wire, 3-wire, and 4-wire setups. 2-wire transducers typically have power and signal combined, 3-wire include power, ground, and signal, and 4-wire provide separate excitation, sense, and signal lines for higher accuracy.

How do I identify the wiring terminals on a pressure transducer?

Most pressure transducers have labeled terminals or color-coded wires. Typically, red is positive excitation, black is ground, and another color (often white or green) is the signal output. Always refer to the manufacturer's datasheet for exact wiring details.

Can I wire a pressure transducer directly to a PLC analog input?

Yes, you can wire a pressure transducer to a PLC analog input if the transducer's output voltage or current matches the PLC input specifications. Ensure proper power supply and signal compatibility to avoid damage or inaccurate readings.

What is the difference between voltage output and current output pressure transducers in wiring?

Voltage output transducers provide a voltage signal proportional to pressure and usually require a stable power supply and proper grounding. Current output transducers (4-20 mA) require a power supply and are wired in series with the measuring device, offering better noise immunity over long distances.

How do I prevent noise and interference when wiring a pressure transducer?

Use shielded twisted-pair cables, properly ground the shield at one end, keep wiring away from high voltage or electromagnetic sources, and use differential inputs on measurement devices to minimize noise and interference.

What precautions should I take when wiring a pressure transducer to avoid damage?

Ensure correct polarity when connecting wires, use the recommended power supply voltage, avoid short circuits, and follow manufacturer wiring instructions carefully. Using fuses or current limiting devices can also protect the transducer.

How do I calibrate a pressure transducer after wiring?

After wiring, apply known pressure values to the transducer and record the output signal. Adjust the measurement device or transducer settings as necessary to ensure the output corresponds accurately to the pressure applied.

Is it necessary to use a dedicated power supply for a pressure transducer?

Yes, using a dedicated, stable power supply within the transducer’s specified voltage range ensures accurate readings and prevents damage. Fluctuating or incorrect power supply voltages can lead to measurement errors or device

failure.

How do I troubleshoot wiring issues with a pressure transducer?

Check for correct wiring according to the datasheet, verify power supply voltage, inspect for loose or damaged wires, measure output signal with a multimeter, and test with a known pressure source. Replacing cables or connectors can also help identify faults.

Additional Resources

1. *Wiring and Installation of Pressure Transducers: A Practical Guide*
This book provides a comprehensive overview of the wiring techniques necessary for pressure transducers. It covers fundamental electrical concepts, step-by-step wiring procedures, and troubleshooting tips. Ideal for both beginners and experienced technicians, it ensures proper installation to achieve accurate pressure readings.

2. *Pressure Transducer Fundamentals and Wiring Techniques*
Focusing on the basics of pressure transducers, this book explains sensor operation and the importance of correct wiring. It includes detailed diagrams and wiring configurations to assist in various industrial applications. The text also explores common wiring errors and how to avoid them to maintain sensor integrity.

3. *Industrial Automation Wiring: Pressure Transducers and Sensors*
This resource delves into the integration of pressure transducers within automated systems. Readers learn about signal types, wiring standards, and the use of connectors and shielding to reduce interference. The book also discusses best practices for installing pressure transducers in harsh industrial environments.

4. *Electrical Wiring for Process Control Instruments*
Covering a broad range of process control devices, this book dedicates significant sections to the wiring of pressure transducers. It explains wiring color codes, grounding methods, and how to interpret wiring diagrams. The material supports professionals aiming to ensure safety and reliability in process instrumentation.

5. *Sensor Wiring and Signal Conditioning for Pressure Measurement*
This title focuses on the electrical wiring and signal conditioning aspects of pressure transducers. It explores how wiring choices affect signal quality and sensor performance. The book also provides guidance on selecting appropriate cables and connectors for optimal pressure measurement.

6. *Pressure Transducers: Installation, Wiring, and Calibration*
A practical manual that guides readers through the entire process from installation and wiring to calibration of pressure transducers. It emphasizes

the importance of correct wiring for accurate sensor output and long-term reliability. The book includes case studies and troubleshooting charts to assist in real-world scenarios.

7. *Wiring Diagrams and Troubleshooting for Pressure Sensors*
This book is a handy reference filled with wiring diagrams for various pressure transducer models. It offers troubleshooting techniques to diagnose wiring faults and sensor malfunctions. Ideal for maintenance technicians, it helps reduce downtime and improve system accuracy.

8. *Advanced Wiring Practices for Pressure Transducers in Hazardous Areas*
Targeted at professionals working in hazardous environments, this book discusses specialized wiring methods for pressure transducers. Topics include explosion-proof wiring, intrinsic safety, and compliance with industry standards. It ensures safe and effective wiring practices in sensitive applications.

9. *Pressure Transducer Wiring: Theory and Application*
Combining theoretical knowledge with practical application, this book covers electrical principles underlying pressure transducer wiring. It includes detailed explanations of sensor outputs, wiring configurations, and interface circuits. Suitable for engineers and technicians, it bridges the gap between theory and hands-on wiring tasks.

Wiring A Pressure Transducer

wiring a pressure transducer: ,

wiring a pressure transducer: Multiple Pressure Transducer Banks and Their Application D. B. Risher, 1967 The report describes the multiple pressure instrumentation being used in the Wind Tunnel Facilities at the Naval Ordnance Laboratory. Methods are described for obtaining rapid pressure stabilization and high speed data acquisition. The associated instrumentation which have been developed include a valve assembly for rapid transducer calibration, quick disconnect fittings for pressure tubes, and a remotely operated valve positioner. (Author).

wiring a pressure transducer: Aviation Unit and Intermediate Maintenance Manual , 1990

wiring a pressure transducer: Unit, Direct Support, and General Support Maintenance Including Repair Parts and Special Tools List , 1993

wiring a pressure transducer: *NASA Technical Note* , 1973

wiring a pressure transducer: Manuals Combined: 100+ U.S. Army CH-47A CH-47B CH-47C and CH-47D Chinook Helicopter Operator; Repair Parts And Special Tools List; Modification Word Order; One Time Inspection; Maintenance; And Maintenance Test Flight Manuals , Well over 18,000 total pages ... Most manuals published by the Department of the Army (with updates) between 1999

and 2003. Contains Repair, Repair Parts, Special Tools Lists, Maintenance, Checklist and Flight-related Technical Manuals and Bulletins for the CH-47A, CH-47B, CH-47C and CH-47D Chinook helicopter. Just a SAMPLE of the CONTENTS: AVIATION UNIT AND AVIATION INTERMEDIATE MAINTENANCE MANUAL CH-47D HELICOPTER, 1,335 pages - Aviation Unit and Aviation Intermediate Troubleshooting Manual, CH-47D Helicopter, 1,225 pages - ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS FOR ELECTRONIC EQUIPMENT CONFIGURATION FOR CH-47A, CH-47B, AND CH-47C HELICOPTERS, 116 pages - Preparation for Shipment of CH-47 HELICOPTER, 131 pages - OPERATOR, AVIATION UNIT, AND AVIATION INTERMEDIATE MAINTENANCE MANUAL WITH REPAIR PARTS AND SPECIAL TOOLS LIST EXTENDED RANGE FUEL SYSTEM ARMY MODEL CH-47 HELICOPTER, 194 pages - AVIATION UNIT AND INTERMEDIATEMAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS) HELICOPTER, CARGO TRANSPORT CH-47D, 689 pages - AVIATION UNIT AND INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS) HELICOPTER, CARGO TRANSPORT CH-47D, 511 pages - PREVENTIVE MAINTENANCE DAILY INSPECTION CHECKLIST CH-47D HELICOPTER, 30 pages - PHASED MAINTENANCE CHECKLIST CH-47D HELICOPTER, 117 pages - MAINTENANCE TEST FLIGHT MANUAL ARMY MODEL CH-47D HELICOPTER, 195 pages - Operator's and Crewmember's Checklist ARMY CH-47D HELICOPTER, 49 pages - ONE TIME VISUAL INSPECTION AND RECORDS CHECK OF THE UPPER BOOST ACTUATORS AND PULL TEST OF SWASHPLATE FOR ALL CH-47D, MH-47D, AND MH-47E AIRCRAFT, 11 pages - WARRANTY PROGRAM FOR HELICOPTER, CARGO TRANSPORT CH-47D, 28 pages - CALIBRATION PROCEDURE FOR CH-47 INTEGRATED LOWER CONTROL ACTUATOR (ILCA) BENCH TEST SET, 50 pages REPAIR PARTS AND SPECIAL TOOLS LIST FOR STABILITY AUGMENTATION SYSTEM AMPLIFIERS CH-47A, CH-47B, AND CH-47C HELICOPTERS, 53 pages - AVIATION UNIT AND AVIATION INTERMEDIATE MAINTENANCE For GENERAL TIE-DOWN AND MOORING ON ALL SERIES ARMY MODELS AH-64, UH-60, CH-47, UH-1, AH-1, OH-58 HELICOPTERS, 60 pages - OPERATOR'S MANUAL FOR CH-47D (CHINOOK) FLIGHT SIMULATOR Device 2B31A, 185 pages

wiring a pressure transducer: *Manuals Combined: U.S. Army M923 M927 M929 M931 M932 M934 M939 Truck Operator Repair Parts Manuals* , OVERVIEW: a. The following manuals contains instructions for operating and servicing the following M939/A1/A2 series vehicles: (1) M923/A1/A2, Cargo Truck, WO/W (Dropside) (2) M925/A1/A2, Cargo Truck, W/W (Dropside) (3) M927/A1/A2, Cargo Truck, WO/W (XLWB) (4) M928/A1/A2, Cargo Truck, W/W (XLWB) (5) M929/A1/A2, Dump Truck, WO/W (6) M930/A1/A2, Dump Truck, W/W (7) M931/A1/A2, Tractor Truck, WO/W (8) M932/A1/A2, Tractor Truck, W/W (9) M934/A1/A2, Expansible Van, WO/W (10) M936/A1/A2, Medium Wrecker, W/W b. Vehicles’ purpose. (1) The M923/A1/A2, M925/A1/A2, M927/A1/A2, and M928/A1/A2 series cargo trucks provide transportation of personnel or equipment over a variety of terrain and climate conditions. (2) The M929/A1/A2 and M930/A1/A2 series dump trucks are used to transport various materials over a variety of terrains. Each vehicle can be equipped with troop seat, and tarpaulin and bow kits for troop transport operations. (3) The M931/A1/A2 and M932/A1/A2 series tractor trucks are equipped with a fifth wheel used to haul a semitrailer over a variety of terrain. (4) The M934/A1/A2 series expansible vans are designed to transport electronic base stations over a variety of terrain. (5) The M936/A1/A2 series wreckers are designed for recovery of disabled or mired vehicles, and perform crane operation. CONTENTS: TM 9-2320-272-10 OPERATORS MANUAL FOR TRUCK, 5-TON, 6X6, M939, M939A1, AND M939 SERIES TRUCKS (DIESEL), TRUCK, CARGO: 5-TON, 6X6 DROPSIDE, M923 (2320-01-0505-2084) (EIC: BRY); M923A1 (2320-01-206-4087) EIC: M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (M925A1 (2320-01-206-4088) (EIC: BST); M925A2 (2320-01-230-0308) BS8); TRUCK, CARGO: 5-TON, 6X6 XLWB, M927 (2320-01-047-8771) (E M927A1 (2320-01-206-4089) (EIC: BSW); M27A2 (2320-01-230-0309) (BS9); M928 (2320-01-047-8770) (EIC: BRU); M928A1 (2320-01-206- (EI TM 9-2320-272-10-HR HAND RECEIPT COVERING END ITEM/COMPONENTS OF

END ITEM (COEI), B ISSUE ITEMS (BII), AND ADDITIONAL AUTHORIZATION LISTS (AAL) FOR TRUCK, 5-TON, 6X6, M939, M939A1 AND M939A2 SERIES (DIESEL): TRU CARGO: 5-TON, 6X6, DROPSIDE, M923 (2320-01-050-2084), M923A1 (2320-01-206-4087), M923A2 (2320-01-230-0307), M925 (2320-01-04 M925A1 (2320-01-206-4088), M925A2 (2320-01-230-0308); TRUCK, CA 5-TON 6X6, M924 (2320-01-047-8773), M924A1 (2320-01-205-2692), (2320-01-047-8772), M926A1 (2320-01-205-2693); TRUCK, CARGO: 5- 6X6, TM 9-2320-272-24-1 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FOR TRUCK, 5-TON, 6X6, M939, M939A1, M939A2 SERIES TRUCKS (DIESEL) TRUCK, CARGO: 5-TON, 6X6, DROPSIDE, M923 (NSN 2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BR M925A1(2320-01-206-4088) (EIC: BST); M925A2 (2320-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 XLWB, M927 (2320-01-047-87 (EIC; BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M927A2 (2320-01-230-030 TM 9-2320-272-24-2 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FO TRUCK, 5-TON, 6X6, M939, M939A1, M939A2 SERIES TRUCKS (DIESEL) TRUCK, CARGO: 5-TON, 6X6, DROPSIDE, M923 (NSN 2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BR M925A1 (2320-01-206-4088) (EIC: BST); M925A2 (2350-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 XLWB, M927 (2320-01-047-87 (EIC: BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M927A2 (2320-01-230-03 TM 9-2320-272-24-3 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FO TRUCK, 5-TON, 6X6, M939, M939A1, M939A2 SERIES TRUCKS (DIESEL) TRUCK, CARGO: 5-TON, 6X6, DROPSIDE, M923 (NSN 2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BR M925A1 (2320-01-206-4088) (EIC: BST); M925A2 (2320-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 XLWB, M927 (2320-01-047-87 (EIC: BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M927A2 (2320-01-230-03 TM 9-2320-272-24-4 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FO 5-TON, 6X6, M939, M939A1, M939A2 SERIES TRUCKS (DIESEL): TRUCK, 5-TON, 6X6, DROPSIDE , M923 (NSN 2320-01-050-2084) (EIC: BRY); (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-2302-0307) (EIC: M925 (2320-01-047-8769) (EIC: BRT); N925A1 (2320-01-206-4088) (M925A2 (2320-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 M927 (2320-01-047-8771) (EIC: BRV); M927A1 (2320-01-206-4089) (M927A2 (2320-01-230-0309) (EIC: BS9); M928 (2320-01-047-8770) (M9 TM 9-2320-272-24P-1 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PA AND SPECIAL TOOLS LIST FOR TRUCK, 5-TON, 6X6, M939, M939A1, M93 SERIES TRUCKS (DIESEL) TRUCK, CARGO: 5-TON, 6X6, DROPSIDE, M923 (NSN 2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: BSS); M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BRT); M925A1 (2320-01-206-4088) (EIC: M925A2 (2320-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 M927 (2320-01-047-8771) (EIC: BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M9 TM 9-2320-272-24P-2 UNIT, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST FOR TRUCK, 5-TON, 6X6, M939, M939A1, M93 SERIES TRUCKS (DIESEL) TRUCK, CARGO: 5-TON, 6X6, DROPSIDE, M923 (2320-01-050-2084) (EIC: BRY); M923A1 (2320-01-206-4087) (EIC: M923A2 (2320-01-230-0307) (EIC: BS7); M925 (2320-01-047-8769) (EIC: BRT); M925A1 (2320-01-206-4088) (EIC: BST); M925A2 (2320-01-230-0308) (EIC: BS8); TRUCK, CARGO: 5-TON, 6X6 XLWB, M927 (2320-01-047-8771) (EIC: BRV); M927A1 (2320-01-206-4089) (EIC: BSW); M LO 9-2320-272-12 TRUCK, 5-TON, 6X6, M939, M939A1 AND M939A2 SERIES (DIESEL) TRUC CARGO, 5-TON, 6X6, DROPSIDE, M923 (NSN 2320-01-050-2084), M923A (2320-01-206-4087), M923A2 (2320-01-230-0307), M925 (2320-01-04 M925A1 (2320-01-206-4088), M925A2 (2320-01-230-0308); TRUCK, CA 5-TON, 6X6, M924 (2320-01-047-8773), M924A1 (2320-01-205-2692), M926 (2320-01-047-8772), M926A1 (2320-01-205-2693): TRUCK, CARG 5-TON, 6X6, XLWB, M927 (2320-01-047-8771), M927A1 (2320-01-206- M927A2 (2320-01-230-0309), M928 (2320-01-047-8770), M928A1 (2320 TB 11-5820-890-20-71 INSTALLATION INSTRUCTIONS FOR

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