

TALON Gun Manual

External Mix



MagnumVenusPlastech

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Terms & Conditions of Sale:

GSSC, Inc.'s Terms & Conditions of Sale ("Terms & Conditions") 588284v4

- 1. ACCEPTANCE:** Acceptance of any purchase order from a customer or potential customer ("Buyer") is subject to credit approval by GSSC, Inc. ("Seller"), acceptance of the purchase order by Seller and, when applicable, any manufacturer, vendor, or other third party that provides goods to Seller for resale to Buyer ("Vendor"). If Seller, in its sole discretion, determines that Buyer's credit becomes unsatisfactory or it has reasonable grounds for insecurity, Seller reserves the right, upon notice to Buyer, to demand adequate assurance of due performance from Buyer and/or terminate any purchase order with no liability to Seller. BY REQUESTING A QUOTE FROM SELLER, ACCEPTING AN INVOICE FROM SELLER, OR PRESENTING A PURCHASE ORDER TO SELLER, BUYER CONFIRMS THAT THESE TERMS & CONDITIONS SHALL GOVERN ALL PURCHASES OF PRODUCTS OR MATERIALS PROVIDED TO BUYER BY SELLER ("GOODS"). GOODS SOLD BY SELLER ARE EXPRESSLY SUBJECT TO THE TERMS AND CONDITIONS SET FORTH HEREIN AND ANY DIFFERENT OR ADDITIONAL TERMS OR CONDITIONS SET FORTH IN A PURCHASE ORDER OR SIMILAR COMMUNICATION RECEIVED FROM BUYER ARE OBJECTED TO AND SHALL NOT BE BINDING UPON SELLER UNLESS SPECIFICALLY AGREED TO IN WRITING BY AN AUTHORIZED CORPORATE OFFICER OF SELLER. NO SELLER EMPLOYEE OR AGENT HAS THE AUTHORITY TO MODIFY THESE TERMS & CONDITIONS VERBALLY. SELLER OBJECTS TO AND REJECTS ANY TERMS BETWEEN BUYER AND ANY OTHER PARTY, AND NO SUCH TERMS, INCLUDING BUT NOT LIMITED TO ANY GOVERNMENT REGULATIONS OR "FLOWDOWN" TERMS, SHALL BE A PART OF OR INCORPORATED INTO ANY PURCHASE ORDER FROM BUYER TO SELLER, UNLESS AGREED TO IN WRITING BY AN AUTHORIZED REPRESENTATIVE OF SELLER.
- 2. PRICES AND TAXES:** Buyer agrees to pay the prices quoted by Seller or listed on any related invoice, and is responsible for additional applicable shipping and handling charges, taxes, duties, and charges for import and export licenses and certificates. All prices quoted by Seller are subject to change without notice. Seller will generally collect applicable taxes along with the purchase price unless Buyer submits a valid tax exemption certificate, and indicates which Goods are covered by it. Prices on special-order Goods may be subject to change before shipment. In order to be corrected, any discrepancies in pricing and/or quantities on invoices must be reported by Buyer within thirty (30) days of the invoice date.
- 3. PAYMENT:** Payment terms are 30 days net from the invoice date or upon such other terms approved by Seller in writing. Retainage shall not apply, and Buyer shall not hold back any retainage from Seller, even if retainage is part of any contract between Buyer and any other party. Payment is not contingent on Buyer's ability to collect or obtain funds from any other party. Credit card sales are billed at the time of purchase. Buyer expressly represents it is solvent at the time it places any purchase order with Seller. Seller, in its sole discretion, may determine that Buyer's financial condition requires full or partial payment prior to manufacture or shipment. If Buyer fails to make any payment when due, Seller reserves the right to suspend performance. Buyer agrees to pay a charge on all amounts past due at the rate of 1 1/2% per month (18% per year) or the maximum lawful rate, whichever is less. In the event of non-payment, Buyer agrees to pay Seller's reasonable attorney fees and court costs, if any, incurred by Seller to collect payment, and all applicable interest charges. Seller may apply payments to any outstanding invoices unless Buyer provides specific payment direction.
- 4. TITLE AND RISK OF LOSS OR DAMAGE:** As to Goods delivered directly by Seller, title passes upon delivery at the place Buyer receives possession; and, thereafter, all risk of loss or damage shall be on Buyer. All other sales are F.O.B., point of shipment, and Buyer takes title and assumes responsibility for risk of loss or damage at the point of shipment for such sales. Claims for Goods damaged in transit are Buyer's sole responsibility when not delivered directly by Seller.
- 5. QUOTATIONS:** All quotations expire thirty (30) days from the date of the quotation unless otherwise noted on the quotation. This time limit applies even if Buyer uses the quotation to submit a job or project bid to any other party.
- 6. ASSIGNMENT:** The Buyer's rights and responsibilities under any purchase order or these Terms & Conditions shall not be assigned by Buyer without the express written consent of the Seller.
- 7. RETURN OF GOODS:** Permission to return items must be requested and granted in advance. No credit will be given if items are returned prior to requesting and receiving permission. Subject to the foregoing, Seller shall accept returns of Goods for any reason for a period of thirty (30) days following shipment for exchange or refund of the purchase price; provided, that such Goods must be unused and are subject to a 15% restocking charge, which may be increased or decreased, in the Seller's sole discretion, depending on the reason for such return. Any Goods which were special ordered by Buyer are may not be returned, and any such Goods which are returned are subject to a restocking/cancellation fee of 100% of the cost of the Goods. Goods shall be deemed accepted by Buyer (and cannot thereafter be returned), if Buyer fails to object to the Goods within thirty (30) days after the Goods are received by Buyer.
- 8. CANCELLATION:** The Buyer may cancel any purchase order prior to shipment of the Goods by mutual agreement of the parties and upon payment to Seller of reasonable and proper cancellation charges.
- 9. TERMINATION:** Seller may terminate the whole or any part of any purchase order if there is a material breach of these Terms & Conditions. In the event of any such breach, the Seller will provide Buyer with written notice of the nature of the breach and the Seller's intention to terminate for default. In the event Buyer does not cure such failure within ten (10) days of such notice, Seller may, by written notice, terminate the purchase order; provided, that Buyer shall continue its performance to the extent not terminated.
- 10. CHANGE IN BUYER'S FINANCIAL CONDITION:** Seller reserves the right to cancel any order or to require full or partial payment in advance without liability to Seller in the event of: (i) insolvency of the Buyer; (ii) the filing of voluntary petition in bankruptcy by Buyer; (iii) the appointment of a Receiver or Trustee for the Buyer; (iv) the execution by Buyer of an assignment for benefit of creditors; or (v) past due payment on previous shipments to Buyer by Seller. Seller reserves the right to cancel Buyer's credit at any time for any reason.
- 11. INTERPRETATION RESPONSIBILITY; PRODUCT USE AND SAFETY:** Seller does not guarantee that the Goods it sells conform to any plans and specifications or intended use. When plans and specifications are involved, Buyer is solely responsible for verifying Seller's interpretations of such plans and specifications, and it is Buyer's sole responsibility to assure that Seller's Goods will be acceptable for any specific job. When Seller offers substitute Goods on any proposal, Buyer is solely responsible for confirming their acceptability.
- 12. DELIVERY:** Shipping dates given in advance of actual shipment are approximate and not guaranteed. All contract dates and timelines begin upon receipt by Seller of a purchase order, Buyer's acceptance of these Terms & Conditions, and the payment of any required down payment.
- 13. EXCUSABLE DELAYS:** Seller shall have no liability if its performance is delayed or prevented by causes beyond its reasonable control, including, without limitation, acts of nature, labor disputes, government priorities, transportation delays, insolvency or other inability to perform by any Vendor, or any other commercial impracticability. In the event of any such delay, the date of delivery or performance shall be extended for a period equal to the time lost by reason of delay. If Goods are held or stored beyond the delivery date for the convenience of Buyer, such Goods shall be so stored at the risk and expense of Buyer.
- 14. CLAIMS:** Claims for any nonconforming Goods must be made by Buyer, in writing, within ten (10) days of Buyer's receipt of such Goods and must state with particularity all material facts concerning the claim then known to Buyer. Failure by Buyer to give notice within such ten (10) day period shall constitute an unqualified acceptance of such Goods by Buyer, and a waiver of any right to reject or revoke acceptance of such Goods.



15. WARRANTIES:

(a) **SELLER'S WARRANTIES:** Seller warrants that all Goods sold shall mechanically operate as specified and shall be free from faults in respect to materials and workmanship for a period of: (i) for parts, twelve (12) months from the date of invoice, and (ii) for systems, twelve (12) months from start-up, or, if earlier, eighteen (18) months from the date of the bill of lading. Seller also warrants that the Goods shall, upon payment in full by Buyer for the Goods, be free and clear of any security interests or liens. Buyer's exclusive remedy for breach of such warranties shall be limited to repair or replacement costs or termination of any security interests or liens, and Seller shall have no responsibility for reimbursing repair costs incurred by Buyer in connection with Goods without first giving written authorization for such charges. In any claims by the Buyer against the Seller in respect of the Goods, the liability of the Seller shall be limited to the value of the Goods. This warranty applies only to Goods properly used and maintained and does not apply to any Goods which are misused or neglected, or which has been installed, operated, repaired, altered or modified other than in accordance with instructions or written authorization by Seller. This warranty does not apply to any Goods not manufactured by Seller, and Buyer's sole warranty with respect to such Goods shall be that of the Seller's Vendor, if any.

(b) **VENDOR'S WARRANTIES:** Seller shall assign to Buyer any Vendor warranties and/or remedies provided to Seller by its Vendor.

(c) **INTELLECTUAL PROPERTY INFRINGEMENT:** SELLER DISCLAIMS ANY AND ALL WARRANTIES AND/OR INDEMNIFICATIONS AGAINST INFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS OF ANY NATURE. SELLER SHALL, IF GIVEN PROMPT NOTICE BY BUYER OF ANY CLAIM OF INTELLECTUAL PROPERTY INFRINGEMENT WITH RESPECT TO ANY GOODS SOLD HEREUNDER, REQUEST THE APPLICABLE VENDOR TO GRANT FOR THE BUYER SUCH WARRANTY OR INDEMNITY RIGHTS AS SUCH VENDOR MAY CUSTOMARILY GIVE WITH RESPECT TO SUCH GOODS.

(d) **LIMITATIONS:** THERE ARE NO OTHER WARRANTIES WRITTEN OR ORAL, EXPRESS, IMPLIED OR BY STATUTE. SELLER SPECIFICALLY DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO REPAIR OF GOODS OR OTHER COSTS ARE ASSUMED BY SELLER UNLESS AGREED TO, IN ADVANCE, IN WRITING.

16. LIMITATIONS OF LIABILITY: UNLESS APPLICABLE LAW OTHERWISE REQUIRES, SELLER'S AND ANY VENDOR'S TOTAL LIABILITY TO BUYER, BUYER'S CUSTOMERS OR TO ANY OTHER PERSON, RELATING TO ANY PURCHASES GOVERNED BY THESE TERMS & CONDITIONS, FROM THE USE OF THE GOODS FURNISHED OR FROM ANY ADVICE, INFORMATION OR ASSISTANCE PROVIDED BY SELLER (BY ANY METHOD, INCLUDING A WEB SITE), IS LIMITED TO THE PRICE OF THE GOODS GIVING RISE TO THE CLAIM. NEITHER SELLER NOR ITS VENDORS SHALL BE LIABLE FOR ANY SPECIAL, INCIDENTAL, DIRECT, CONSEQUENTIAL OR PENAL DAMAGES, INCLUDING, BUT NOT LIMITED TO BACKCHARGES, LABOR COSTS, COSTS OF REMOVAL, REPLACEMENT, TESTING OR INSTALLATION, LOSS OF EFFICIENCY, LOSS OF PROFITS OR REVENUES, LOSS OF USE OF THE GOODS OR ANY ASSOCIATED GOODS, DAMAGE TO ASSOCIATED GOODS, LATENESS OR DELAYS IN DELIVERY, UNAVAILABILITY OF GOODS, COST OF CAPITAL, COST OF SUBSTITUTE GOODS, FACILITIES OR SERVICES, DOWNTIME, OR CLAIMS FROM BUYER'S CUSTOMERS OR OTHER PARTIES. IF SELLER FURNISHES BUYER WITH ADVICE OR OTHER ASSISTANCE WHICH CONCERNS ANY GOODS SUPPLIED HEREUNDER, OR ANY SYSTEM OR EQUIPMENT IN WHICH ANY SUCH GOODS MAY BE INSTALLED, AND WHICH IS NOT REQUIRED PURSUANT TO THESE TERMS & CONDITIONS, THE FURNISHING OF SUCH ADVICE OR ASSISTANCE WILL NOT SUBJECT SELLER TO ANY LIABILITY, WHETHER BASED ON CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE) OR OTHER GROUNDS.

17. BUYER'S USE OF GOODS: Many factors beyond Seller's control contribute to the success of the Buyer's finished products, such as raw materials used to manufacture the products. Seller is not liability for the quality or quantity of finished products produced by Buyer with the use of the Goods.

18. EXPORTS: If Goods are sold for export, Seller's standard terms & condition for export sales, if any, shall also apply. Acceptance of export orders is not valid unless confirmed in writing by Seller. Buyer, and not Seller, is responsible for compliance with all United States export control rules and regulations. Buyer shall not name Seller as shipper or exporter of record in connection with the export of any Goods purchased from Seller.

19. INSTALLATION: Installation of the Goods is the responsibility of Buyer, unless otherwise indicated in the quotation or invoice provided to Buyer. Notwithstanding the foregoing, however, Seller will provide installation supervision personnel within thirty (30) days of Buyer's request. If an installation for which the Seller is to participate is delayed by the Buyer more than six (6) months after the date of shipment of the Goods, or if Buyer's facility, materials, or parts are not prepared for installation for such period of time, Seller shall be entitled to invoice the Buyer for the anticipated installation costs, up to \$1,250 per day plus expenses, for each of Seller's installations technicians which are on site.

20. ANTI-MONEY LAUNDERING RESTRICTIONS: Seller rejects questionable purchase orders and payments: Except for pre-approved credit arrangements, Seller rejects third-party payments, cashiers' checks, money orders and bank drafts. Seller accepts only checks imprinted with Buyer's name; wire transfers originated in Buyer's account; letters of credit with Buyer as account party; and credit or debit cards in Buyer's name. All payments must be by single instrument in the amount of the invoice, less credits, from banks acceptable to Seller.

21. GOVERNING LAW: These Terms & Conditions and all disputes related to it shall be governed by the laws of the State of Florida, United States of America, without giving effect to its conflict of law rules.

22. JURISDICTION AND VENUE: The parties hereby irrevocably submit to the jurisdiction of the state courts of the State of Florida and to the jurisdiction of the United States District Court for the Middle District of Florida, for the purpose of any suit, action, or other proceeding related to, arising out of or based upon these Terms & Conditions or in any way related to, arising out of or involving sale of Goods hereunder; waive and agree not to assert by way of motion, as a defense, or otherwise, in any such suit, action, or proceeding, any claim that it is not subject personally to the jurisdiction of the above-named courts, that its property is exempt or immune from attachment or execution, that the suit, action, or proceeding is brought in any inconvenient forum, that the venue of the suit, action, or proceeding is improper, or that these Terms & Conditions or the subject matter hereof may not be enforced in or by such court; and waive and agree not to seek any review by any court of any other jurisdiction which may be called upon to grant an enforcement of the judgment of any such Florida state or federal court. The parties hereby consent to service of process by registered mail at the address to which notice is to be given. The exclusive venue for any proceeding under these Terms & Conditions shall be solely in any state court in Pinellas County, Florida, or the Federal District Court for the Middle District of Florida, Tampa Division, sitting in Tampa, Florida. Buyer acknowledges that the prices for Goods offered hereunder are in part dependent on Buyer's consent to jurisdiction in Florida and exclusive venue in Pinellas County, Florida or the Federal District Court for the Middle District of Florida, Tampa Division, sitting in Tampa, Florida, and without Buyer's consent to this jurisdiction and venue provision the prices for the Goods may be higher.

23. GENERAL: Any representation, affirmation of fact and course of dealing, promise or condition in connection therewith or usage of trade not contained herein, shall not be binding on either party. If any provision hereof shall be unenforceable, invalid or void for any reason, such provision shall be automatically voided and shall not be part of these Terms & Conditions and the enforceability or validity of the remaining provisions of these Terms & Conditions shall not be affected thereby.

TO THE EXTENT NOT CONTRARY TO APPLICABLE LAW, THE FOLLOWING SHALL APPLY:

24. Buyer waives any available homestead exemption as well as any and all requirements or rights with regard to notice, demand, presentment.

IMPORTANT NOTICE: THIS INSTRUMENT PERMITS SELLER TO OBTAIN AND USE YOUR INDIVIDUAL CREDIT HISTORY FOR CREDIT EVALUATION PURPOSES.



SAFETY & WARNING INFORMATION:

OPERATING YOUR POLYESTER SYSTEM SAFELY



1. Introduction

Any tool, if used improperly, can be dangerous. Safety is ultimately the responsibility of those using the tool. In like manner, safe operation of polyester processes is the responsibility of those who use such processes and those who operate the equipment. This manual outlines procedures to be followed in conducting polyester operations safely. This system has been specifically designed for use of Polyester Resin, Gel-Coat, and Methyl Ethyl Ketone Peroxides (MEKP) applications. Other formulations or blends considered for use in this equipment is strictly prohibited without the expressed consent by Magnum Venus Plastech Inc. Magnum Venus Plastech cannot eliminate every danger nor foresee every circumstance that might cause an injury during equipment operation. Some risks, such as the high pressure liquid stream that exits the spray tip, are inherent to the nature of the machine operation and are necessary to the process in order to manufacture the end-product. For this reason, ALL personnel involved in polyester operations should read and understand the Safety Manual. It is very important for the safety of employees involved in the operation that equipment operators, maintenance and supervisory personnel understand the requirements for safe operation. Each user should examine his own operation, develop his own safety program and be assured that his equipment operators follow correct procedures. Magnum Venus Plastech hopes that this manual is helpful to the user and recommends that the precautions in this manual be included in any such program. Magnum Venus Plastech recommends this Safety Manual remain on your equipment at all times for your personnel safety. In addition to the manual, Magnum Venus Plastech recommends that the user consult the regulations established under the Occupational Safety & Health Act (OSHA), particularly the following sections:

1910.94 Pertaining to Ventilation.

1910.106 Pertaining to flammable liquids

1910.107 Pertaining to spray finishing operations, particularly Paragraph (m) Organic Peroxides and Dual Component Coatings.

Other standards and recognized authorities to consult are the National Fire Protection Association (NFPA) bulletins as follows:

NFPA No.33 Chapter 14, Organic Peroxides and Dual Component Materials

NFPA No.63 Dust Explosion Prevention

NFPA No.70 National Electrical Code

NFPA No.77 Static Electricity

NFPA No.91 Blower and Exhaust System

NFPA No.654 Plastics Industry Dust Hazards



Type of Fire Extinguishing equipment recommended: Fire Extinguisher – code ABC, rating number 4a60bc.

Extinguishing Media – Foam, Carbon Dioxide, Dry Chemical, Water Fog.

Copies of the above bulletins are available, at a nominal charge from:

National Fire Protection Association
470 Atlantic Avenue
Boston, MA 02210



Research Report No.11 of the American Insurance Association deal with “Fire, Explosion and Health Hazards of Organic Peroxides”. It is published by:

American Insurance Association
85 John Street
New York, NY 10038

Local codes and authorities also have standards to be followed in the operation of your spraying equipment. Your insurance carrier will be helpful in answering questions that arise in your development of safe procedures.

1.2 Personal Safety Equipment

Magnum Venus Plastech recommends the following Personal Safety Equipment for conducting safe operations of the Polyester Systems:

Magnum Venus Plastech recommends that the user consult the state and local regulations established for all Safety equipment listed.

2.0 Material Safety

2.1 Hazards Associated with Laminating Operations

The major hazards which should be guarded against in polyester laminating operations are those associated with:

1. The flammability and explosion dangers of the catalyst normally used – Methyl Ethyl Ketone Peroxide (MEKP).
2. The flammability dangers of clean-up solvents sometimes used (Magnum Venus Plastech recommends that clean-up solvents be non-flammable), and of resin diluents used, such as styrene.
3. The flammability dangers of catalyst diluents, if used. (Magnum Venus Plastech recommends that catalyst not be diluted.
4. The flammability dangers of the uncured liquid resins used.
5. The combustibility dangers of the cured laminate, accumulations of over spray, and laminate sandings.
6. The toxicity dangers of all the chemicals used in laminating operations with respect to ingestion, inhalation and skin and eye hazards.

2.2 Catalyst (Methyl Ethyl Ketone Peroxide)

MEKP is among the more hazardous materials found in commercial channels. The safe handling of the “unstable (reactive)” chemicals presents a definite challenge to the plastics industry. The highly reactive property which makes MEKP valuable to the plastics industry in producing the curing reaction of polyester resins also produces the hazards which require great care and caution in its storage, transportation, handling, processing and disposal. MEKP is a single chemical. Various polymeric forms may exist which are more or less hazardous with respect to each other. These differences may arise not only from different molecular structures (all are, nevertheless, called “MEKP”) and from possible trace impurities left from the manufacture of the chemicals, but may also arise by contamination of MEKP with other materials in its storage or use. Even a small amount of contamination with acetone, for instance, may produce an extremely shock-sensitive and explosive compound.



Contamination with promoters or materials containing promoters, such as laminate sandings, or with any readily oxidizing material, such as brass or iron, will cause exothermic “redox” reactions which can become explosive in nature. Heat applied to MEKP, or heat build-up from contamination reactions can cause it to reach what is called its Self-Accelerating Decomposition Temperature (SADT).

Researchers have reported measuring pressure rates-of-rise well in excess of 100,000 psi per second when certain MEKP's reach their SADT. (For comparison, the highest pressure rate-of-rise listed in NFPA Bulletin NO.68, “Explosion Venting”, is 12,000 psi per second for an explosion of 12% acetylene and air. The maximum value listed for a hydrogen explosion is 10,000 psi per second. Some forms of MEKP, if allowed to reach their SADT, will burst even an open topped container. This suggests that it is not possible to design a relief valve to vent this order of magnitude of pressure rate-of-rise. The user should be aware that any closed container, be it a pressure vessel, surge chamber, or pressure accumulator, could explode under certain conditions. There is no engineering substitute for care by the user in handling organic peroxide catalysts. If, at any time, the pressure relieve valve on top of the catalyst tank should vent, the area should be evacuated at once and the fire department called. The venting could be the first indication of a heat, and therefore, pressure build-up that could eventually lead to an explosion. Moreover, if a catalyst tank is sufficiently full when the pressure relief valve vents, some catalyst may spray out, which could cause eye injury. For this reason, and many others, anyone whose job puts them in an area where this vented spray might go, should always wear full eye protection even when laminating operations are not taking place.

Safety in handling MEKP depends to a great extent on employee education, proper safety instructions and safe use of the chemicals and equipment. Workers should be thoroughly informed of the hazards that may result from improper handling of MEKP, especially in regards to contamination, heat, friction and impact. They should be thoroughly instructed regarding the proper action to be taken in the storage, use and disposal of MEKP and other hazardous materials used in the laminating operation. In addition, users should make every effort to:

- A. Store MEKP in a cool, dry place in original containers away from direct sunlight and away from other chemicals.
- B. Keep MEKP away from heat, sparks and open flames.

- C. Prevent contamination of MEKP with other materials, including polyester over spray and sandings, polymerization accelerators and promoters, brass, aluminum and non-stainless steels.
- D. Never add MEKP to anything that is hot, since explosive decomposition may result.
- E. Avoid contact with skin, eyes and clothing. Protective equipment should be worn at all times. During clean-up of spilled MEKP, personal safety equipment, gloves and eye protection must be worn. Firefighting equipment should be at hand and ready.
- F. Avoid spillage, which can heat up to the point of self-ignition.
- G. Repair any leaks discovered in the catalyst system immediately, and clean up the leaked catalyst at once in accordance with the catalyst manufacturer's instructions.
- H. Use only original equipment or equivalent parts from Magnum Venus Plastech in the catalyst system (i.e.: hoses, fitting, etc.) because a dangerous chemical reaction may result between substituted parts and MEKP.
- I. Catalyst accumulated from the purging of hoses or the measurement of fluid output deliveries should never be returned to the supply tank, such catalyst should be diluted with copious quantities of clean water and disposed of in accordance with the catalyst manufacturer's instructions.



The extent to which the user is successful in accomplishing these ends and any additional recommendations by the catalyst manufacturer determines largely the safety that will be present in his operation.

2.3 Clean-Up Solvents and Resin Diluents

WARNING

A hazardous situation may be present in your pressurized fluid system! Hydrocarbon Solvents can cause an explosion when used with aluminum or galvanized components in a closed (pressurized) fluid system (pump, heaters, filters, valves, spray guns, tanks, etc.). The explosion could cause serious injury, death and/or substantial property damage. Cleaning agents, coatings, paints, etc. may contain Halogenated Hydrocarbon Solvents. Some Magnum Venus Plastech spray equipment includes aluminum or galvanized components and will be affected by Halogenated Hydrocarbon Solvents.

- A. There are three key elements to the Halogenated Hydrocarbon (HHC) solvent hazard.
 - a. The presence of HHC solvents. 1,1,1 – Trichloroethane and Methylene Chloride are the most common of these solvents. However, other HHC solvents are suspect if used; either as part of paint or adhesives formulation, or for clean-up flushing.
 - b. Aluminum or Galvanized Parts. Most handling equipment contains these elements. In contact with these metals, HHC solvents could generate a corrosive reaction of a catalytic nature.
 - b. Equipment capable of withstanding pressure. When HHC solvent contacts aluminum or galvanized parts inside a closed container such as a pump, spray gun, or fluid handling system, the chemical reaction can, over time, result in a build-up of heat and pressure, which can reach explosive proportions.

When all three elements are present, the result can be an extremely violent explosion. The reaction can be sustained with very little aluminum or galvanized metal; any amount of aluminum is too much.

A. The reaction is unpredictable. Prior use of an HHC solvent without incident (corrosion or explosion) does NOT mean that such use is safe. These solvents can be dangerous alone (as a clean-up or flushing agent) or when used as a component or a coating material. There is no known inhibitor that is effective under all circumstances. Furthermore, the mixing of HHC solvents with other materials or solvents, such as MEKP, alcohol, and toluene, may render the inhibitors ineffective.

B. The use of reclaimed solvents is particularly hazardous. Reclaimers may not add any inhibitors. Also, the possible presence of water in reclaimed solvents could feed the reaction.

C. Anodized or other oxide coatings cannot be relied upon to prevent the explosive reaction. Such coatings can be worn, cracked, scratched, or too thin to prevent contact. There is no known way to make oxide coatings or to employ aluminum alloys, which will safely prevent the chemical reaction under all circumstances.

D. Several solvent suppliers have recently begun promoting HHC solvents for use in coating systems. The increasing use of HHC solvents is increasing the risk. Because of their exemption from many State Implementation Plans as Volatile Organic Compounds

(VOC's), their low flammability hazard, and their not being classified as toxic or carcinogenic substances, HHC solvents are very desirable in many respects.



WARNING: Do not use Halogenated Hydrocarbon solvents in pressurized fluid systems having aluminum or galvanized wetted parts.

NOTE: Magnum Venus Plastech is aware of NO stabilizers available to prevent Halogenated Hydrocarbon solvents from reaction under all conditions with aluminum components in closed fluid system. TAKE IMMEDIATE ACTION... Halogenated Hydrocarbon solvents are dangerous when used with aluminum components in a closed fluid system.

A. Consult your material supplier to determine whether your solvent or coating contains Halogenated Hydrocarbon Solvents.

B. Magnum Venus Plastech recommends that you contact your solvent supplier regarding the best non-flammable clean-up solvent with the heat toxicity for your application.

C. If, however, you find it necessary to use flammable solvents, they must be kept in approved, electrically grounded containers.

D. Bulk solvent should be stored in a well-ventilated, separate building, 50 feet away from your main plant.

E. You should allow only enough solvent for one day's use in your laminating area.

F. "NO SMOKING" signs must be posted and observed in all areas of storage or where solvents and other flammable materials are used.

G. Adequate ventilation (as covered in OSHA Section 1910.94 and NFPA No.91) is important wherever solvents are stored or used, to minimize, confine and exhaust the solvent vapors.

H. Solvents should be handled in accordance with OSHA Section 1910.106 and 1910.107.

2.4 Catalyst Diluents

Magnum Venus Plastech spray-up and gel-coat systems currently produced are designed so that catalyst diluents are not required. Magnum Venus Plastech, therefore, recommends that diluents not be used. This avoids the possible contamination which could lead to an explosion due to the handling and mixing of MEKP and diluents. In addition, it eliminates any problems from the diluents being contaminated through rust particles in drums, poor quality control on the part of the diluents suppliers, or any other reason. If, however, diluents are absolutely required, contact your catalyst supplier and follow his instructions explicitly. Preferable, the supplier should premix the catalyst to prevent possible “on the job” contamination while mixing.

WARNING

If diluents are not used, it should be remembered that catalyst spillage, gun, hose and packing leaks are potentially more hazardous, since each drop contains a higher concentration of catalyst, and therefore will react quicker with over spray and the leak.

2.5 Cured Laminate, Overspray and Laminate Sandings Accumulation

A. Remove all accumulations of overspray, FRP sandings, etc. from the building as they occur. If this waste is allowed to build up, spillage of catalyst is more likely to start a fire; in addition, the fire would burn hotter and longer.

B. Floor coverings, if used, should be non-combustible.

C. Spilled or leaked catalyst may cause a fire if it comes in contact with an FRP product, over-sprayed chop or resin, FRP sandings or any other material with MEKP.

To prevent this spillage and leakage, you should:

1. Maintain your Magnum Venus Plastech System. Check the gun several times daily for catalyst and resin packing or valve leaks. **REPAIR ALL LEAKS IMMEDIATELY.**
2. Never leave the gun hanging over, or lying inside the mold. A catalyst leak in this situation would certainly damage the part, possibly the mold, and may cause a fire.
3. Inspect resin and catalyst hoses daily for wear or stress at the entry and exits of the boom sections and at the hose and fittings. Replace if wear or weakness is evident or suspected.
4. Arrange the hoses and fiberglass roving guides so that the fiberglass strands DO NOT rub against any of the hoses at any point. If allowed to rub, the hose will be cut through, causing a hazardous leakage of material which could increase the danger of fire. Also, the material may spew onto personnel in the area.

2.7 Toxicity of Chemicals

- A. Magnum Venus Plastech recommends that you consult OSHA Sections 1910.94, 1910.106, 1910.107 and NFPA No.33, Chapter 14, and NFPA No.91.
- B. Contact your chemical supplier(s) and determine the toxicity of the various chemicals used as well as the best methods to prevent injury, irritation and danger to personnel.
- C. Also determine the best methods of first aid treatment for each chemical used in your plant.

2.8 Treatment of Chemical Injuries

Great care should be used in handling the chemicals (resins, catalyst and solvents) used in polyester systems. Such chemicals should be treated as if they hurt your skin and eyes and as if they are poison to your body. For this reason, Magnum Venus Plastech recommends the use of protective clothing and eye wear in using polyester systems. However, users should be prepared in the event of such an injury. Precautions include:

1. Know precisely what chemicals you are using and obtain information from your chemical supplier on what to do in the event the chemical gets onto your skin or into the eyes, or is swallowed.
2. Keep this information together and easily available so that it may be used by those administering first aid or treating the injured person.
3. Be sure the information from your chemical supplier includes instructions on how to treat any toxic effects the chemicals have.

WARNING



Contact your doctor immediately in the event of any injury and give him the information you have collected. If your information includes first aid instructions, administer first aid immediately while you are contacting your doctor.

Fast treatment of the outer skin and eyes that contact such chemicals generally includes immediate and thorough washing of the exposed skin and immediate and continuous flushing of the eyes with lots of clean water for at least 15 minutes or more. These general instructions of first aid treatment, however, may be incorrect for some chemicals; that is why you must know the chemicals and treatment before an accident occurs. Treatment for swallowing a chemical frequently depends upon the nature of the chemical.

NOTE: Refer to your System User Manual for complete and detailed operating instructions and service information.

3.0 Equipment Safety

WARNING

Magnum Venus Plastech suggests that personal safety equipment such as EYE GOGGLES, GLOVES, EAR PROTECTION, and RESPIRATORS be worn when servicing or operating this equipment. Ear protection should be worn when operating a fiberglass chopper to protect against hearing loss since noise levels can be as high as 116 dB (decibels). This equipment should only be operated or serviced by technically trained personnel!

WARNING

Never place fingers, hands, or any body part near or directly in front of the spray gun fluid tip. The force of the liquid as it exits the spray tip can cause serious injury by shooting liquid through the skin. NEVER LOOK DIRECTLY INTO THE GUN SPRAY TIP OR POINT THE GUN AT OR NEAR ANOTHER PERSON. (TREAT THE GUN AS IF IT WERE A LOADED PISTOL.)

3.1 Emergency Stop Procedures

The following steps should be followed in order to stop the machinery in an emergency situation

1. The ball valve located where the air enters the power head of the resin pump, should be moved to the "OFF" or closed position. To do this, simply rotate the lever on the ball valve 90 degrees. Doing this will cause all the system air to bleed out of the system in a matter of a few seconds, making the system incapable of operating

NOTE: *Step 2 is a precautionary step and should be followed whenever the above mentioned ball valve is activated to the stop mode. Failure to do so, can damage the regulators and components on reactivating to the "ON" position.*

2. Turn all system regulators to the "OFF" position (counter-clockwise) position

NOTE: *Verify that the Catalyst relief line, located on the catalyst manifold, and the resin return line, located on the resin filter, are secured relieving catalyst and resin fluid pressure.*

3. Catalyst pressure in the catalyst pump can be eliminated by rotating the ball valve on the catalyst manifold 90 degrees to the "open" or "on" position.

Note: *The "open" or "on" position is when the ball valve handle is parallel (in line) with the ball valve body. The "closed" or "off" position is when the ball valve handle is perpendicular (across) the ball valve body.*



4. Resin pressure in the resin pump can be eliminated by rotating the ball valve on the resin filter 90 degrees to the "open" or "on" position. Place a container under the ball valve to catch any resin that is ejected out of the valve.

3.2 Grounding

Grounding an object means providing an adequate path for the flow of the electrical charge from the object to the ground. An adequate path is one that permits charge to flow from the object fast enough that it will not accumulate to the extent that a spark can be formed. It is not possible to define exactly what will be an adequate path under all conditions since it depends on many variables. In any event, the grounding means should have the lowest possible electrical resistance. Grounding straps should be installed on all loose conductive objects in the spraying area. This includes material containers and equipment. Magnum Venus Plastech recommends grounding straps be made of AWG No.18 stranded wire as a minimum and the larger wire be used where possible. NFPA Bulletin No77 states that the electrical resistance of such a leakage path may be as low as 1 meg ohm (10 ohms) but that resistance as high as 10,000 meg ohms will produce an adequate leakage path in some cases. Whenever flammable or combustible liquids are transferred from one container to another, or from one container to the equipment, both containers or container and equipment shall be effectively bonded and grounded to dissipate static electricity. For further information, see **National Fire Protection Association** (NFPA) 77, titled "Recommended Practice on Static Electrical". Refer especially to section 7-7 titled "Spray Application of Flammable and Combustible Materials". Check with local codes and authorities for other specific standards that might apply to your application. NEVER USE HARD MATERIALS SUCH AS WIRE, PINS, ETC., TO CLEAR A PLUGGED GUN. HARD MATERIALS CAN CAUSE PERMANENT DAMAGE. DAB WITH A BRISTLE BRUSH, BLOW BACKWARDS WITH AIR UNTIL CLEAR WHILE WEARING A PROTECTIVE EYE SHIELD. REPEAT AS MANY TIMES AS NECESSARY. DO NOT PERFORM ANY MAINTENANCE OR REPAIRS UNTIL YOU HAVE FOLLOWED THE PRECAUTIONS STATED ABOVE. IF YOU, AS AN EQUIPMENT OPERATOR OR SUPERVISOR, DO NOT FEEL THAT YOU HAVE BEEN ADEQUATELY TRAINED OR INSTRUCTED AND THAT YOU LACK THE TECHNICAL KNOWLEDGE TO OPERATE OR PERFORM MAINTENANCE ON A PIECE OF MAGNUM VENUS PLASTECH EQUIPMENT, PLEASE CALL MAGNUM VENUS PLASTECH BEFORE OPERATING OR PERFORMING MAINTENANCE ON THE EQUIPMENT. IF YOU HAVE ANY QUESTIONS REGARDING THE ABOVE PRECAUTIONS OR ANY SERVICE OR OPERATION PRECEDURES, CALL YOUR MAGNUM VENUS PLASTECH DISTRIBUTOR OR MAGNUM VENUS PLASTECH.

NOTICE: *All statements, information and data given herein are believed to be accurate and reliable but are presented without guaranty, warranty or responsibility of any kind express or implied. The user should not assume that all safety measures are indicated or that other measures are not required.*

DANGER: *Contaminated catalyst may cause Fire or Explosion. Before working on the catalyst pump or catalyst accumulator, wash hands and tools thoroughly. Be sure work area is free of dirt, grease or resin. Clean catalyst system components with clean water only.*

DANGER: Eye, skin and respiration hazard. The Catalyst, MEKP, may cause blindness, skin irritation or breathing difficulty. Keep hands away from face. Keep food and drink away from work area.

WARNING: Please refer to your catalyst manufacturer's safety information regarding the safe handling and storage of catalyst. Wear appropriate safety equipment as recommended.



Introduction:

This manual, the **EXTERNAL MIX TALON GUN MANUAL**, provides information you need to perform simple maintenance and repair on your equipment.

- ❑ Step-by-step assembly and disassembly procedures are included for each component.

Please read the manual carefully. Follow the steps in the order given, otherwise you may damage the equipment or injure yourself.

DANGER: Always wear proper safety equipment, including eye protection and gloves when performing service and repair on this equipment.

During Disassembly:

As you disassemble the equipment, lay out the components on a clean surface in the correct order and direction - this will help you to reassemble them. Have a current parts drawing available for reference this assist in assembly and part numbers if parts need to be ordered.

Tools required

You will need the following tools:

- 7/16-inch Socket Wrench * (08472) – 7/16-inch Socket or Wrench
- 11/16-inch Socket or Wrench
- Hex Wrench/Key Set * (08469)
- 8-inch Adjustable Wrench * (08467)
- Flat-end screwdriver
- Scribe set * (08126)

NOTE: Items followed by a * may be purchased from Magnum Venus Plastech.

You should also have appropriate cleaning materials such as solvent, clean shop towels or rags, a small brush, and empty containers into which you will flush the gun.

Also, you will need the appropriate Seal kit for the gun you have and other items that may need to be replace the current ones in the gun. Please refer to the parts drawings to obtain proper parts numbers for the O-rings and Seals to be replaced.



Gun Assemblies:

This manual covers the following Talon External Mix Gun Assemblies:

TLN-XC-100	TALON EXTERNAL MIX CHOP GUN ASSEMBLY
TLN-XC-100-INT	TALON EXTERNAL MIX CHOP GUN ASSEMBLY - INTERNATIONAL
TLN-XC-100S	TALON EXTERNAL MIX CHOP GUN ASSEMBLY - WITH SIGNAL
TLN-XC-100S-INT	TALON EXTERNAL MIX CHOP GUN ASSY - SIGNAL - INTERN.
TLN-XG-300	TALON EXTERNAL MIX GEL GUN ASSEMBLY
TLN-XG-300-INT	TALON EXTERNAL MIX GEL GUN ASSEMBLY - INTERNATIONAL
TLN-XG-300S	TALON EXTERNAL MIX GEL GUN ASSEMBLY - WITH SIGNAL
TLN-XG-300S-INT	TALON EXTERNAL MIX GEL GUN ASSY - SIGNAL - INTERN.

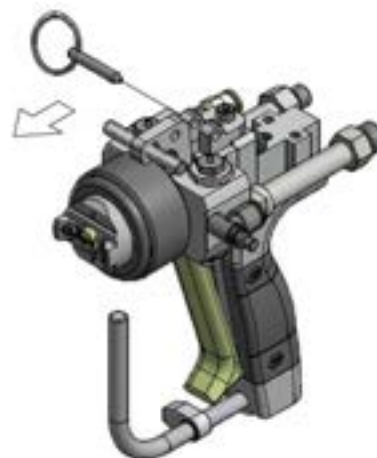


Disassembly / Repair:

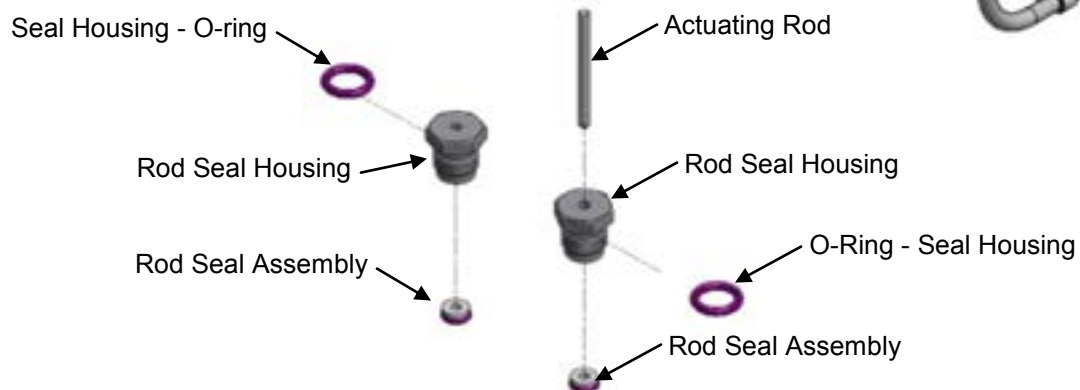
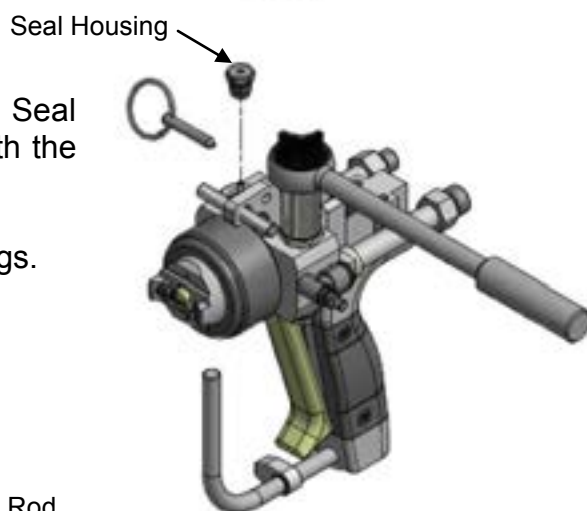
WARNING: Always remove fluid pressures before working on the unit.

Rod Seal Removal:

1. Remove Trigger Pin and push the Trigger assembly forward.

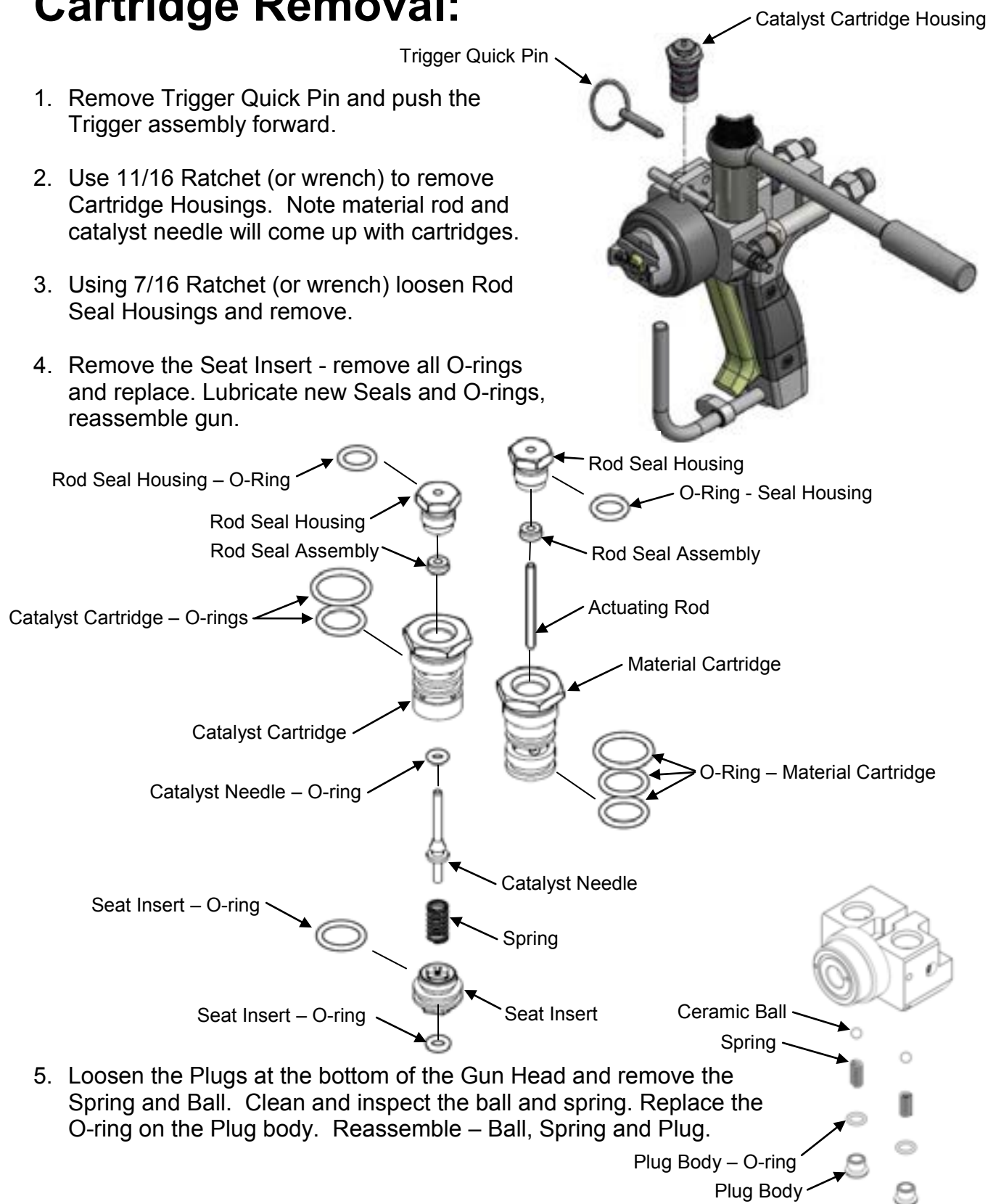


2. Use 7/16 Ratchet (or wrench) to remove the Rod Seal Housing. Note the material Rod will come up with the housing
3. Remove Rod Seal assemblies and Housing O-rings.



Cartridge Removal:

1. Remove Trigger Quick Pin and push the Trigger assembly forward.
2. Use 11/16 Ratchet (or wrench) to remove Cartridge Housings. Note material rod and catalyst needle will come up with cartridges.
3. Using 7/16 Ratchet (or wrench) loosen Rod Seal Housings and remove.
4. Remove the Seat Insert - remove all O-rings and replace. Lubricate new Seals and O-rings, reassemble gun.



5. Loosen the Plugs at the bottom of the Gun Head and remove the Spring and Ball. Clean and inspect the ball and spring. Replace the O-ring on the Plug body. Reassemble - Ball, Spring and Plug.

Cartridge Assemblies:

These allows for a quick “rebuild” of our guns, since this includes everything, other than the ball and spring.

TLN-X-CTR-M (Resin/Gel cartridge):

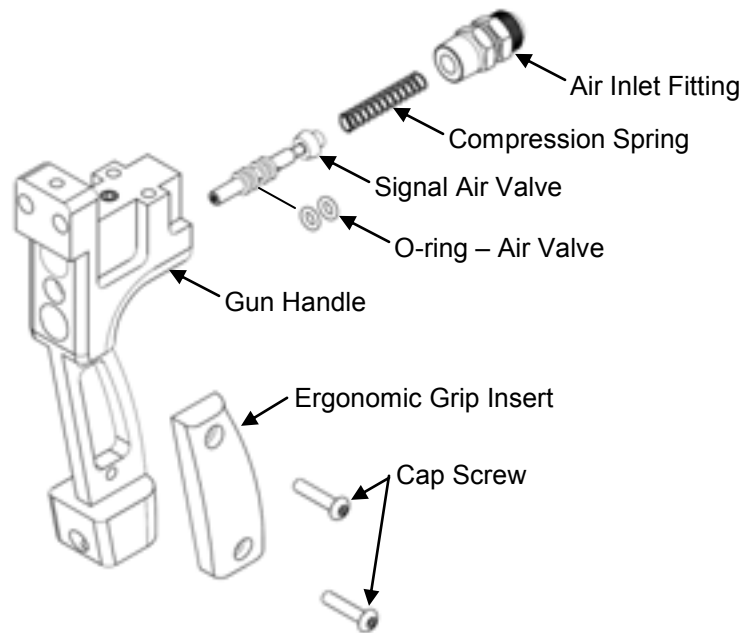
O-E-011	O-RING	1.000
O-E-013	O-RING	2.000
O-E-015	O-RING	1.000
TLN-2016	ACTUATING ROD	1.000
TLN-2021	ROD SEAL HOUSING	1.000
TLN-2028-01	MATERIAL CARTRIDGE	1.000
TLN-2029	ROD SEAL ASSEMBLY	1.000

TLN-X-CTR-C (Catalyst cartridge):

O-A-007	O-RING	1.000
O-S-006	O-RING	1.000
O-S-011	O-RING	1.000
O-S-013	O- RING	2.000
O-S-015	O-RING	1.000
TLN-2021	ROD SEAL HOUSING	1.000
TLN-2029	ROD SEAL ASSEMBLY	1.000
TLN-2048	SEAT INSERT	1.000
TLN-2049	NEEDLE SPRING	1.000
TLN-2082	CATALYST NEEDLE	1.000
TLN-2084	CATALYST CARTRIDGE	1.000

Handle Air Valve:

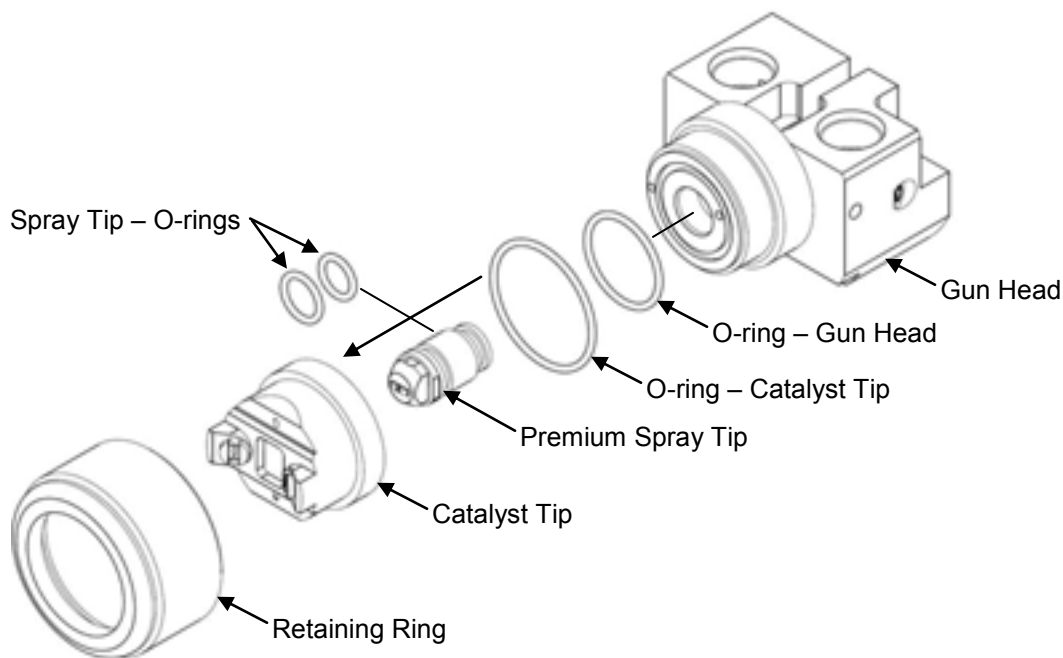
1. Remove the Air Inlet Fitting from the back of the gun handle.
2. Remove the Compression Spring and Signal Air Valve from the handle.
3. Replace the O-rings on the Air Valve.



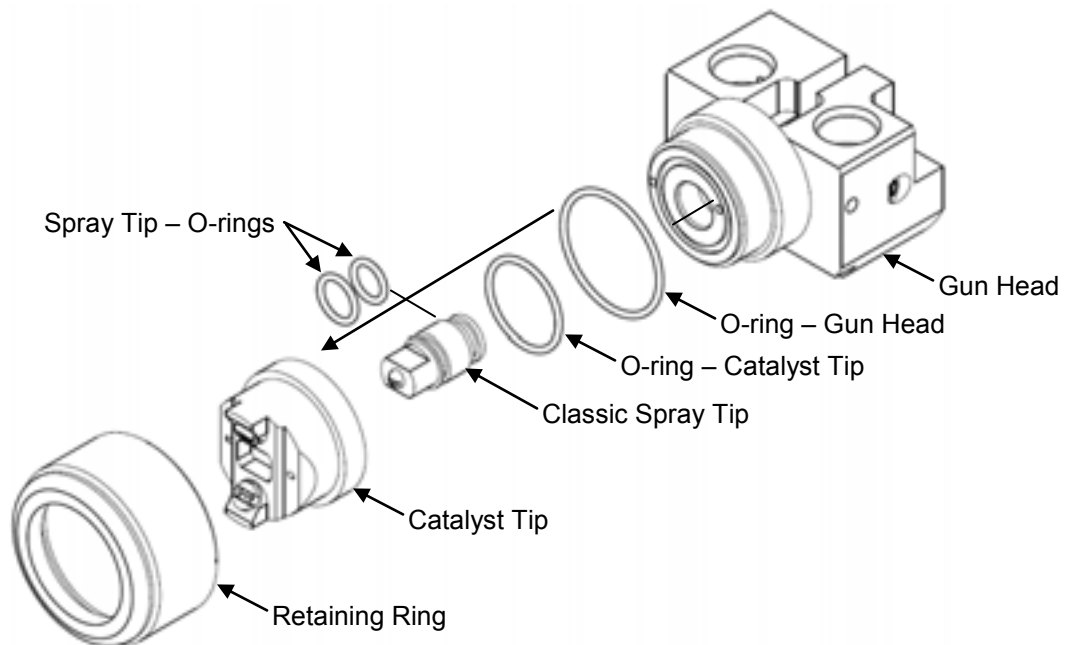
Front of the Gun:

1. Brush Solvent on the front of the Catalyst Tip and Spray Tip to properly clean.
2. Unscrew the Retaining Ring from the front of the gun head.
3. Remove the Catalyst Tip from the front of the gun head. Push the Spray Tip free of the Catalyst Tip if it comes out with the catalyst tip.
4. Thoroughly clean both the Catalyst Tip and Spray Tip. Clean the front of the Gun Head.
5. Replace O-rings as necessary and reassembly.

Gelcoat Gun Front – Premium Spray Tip:

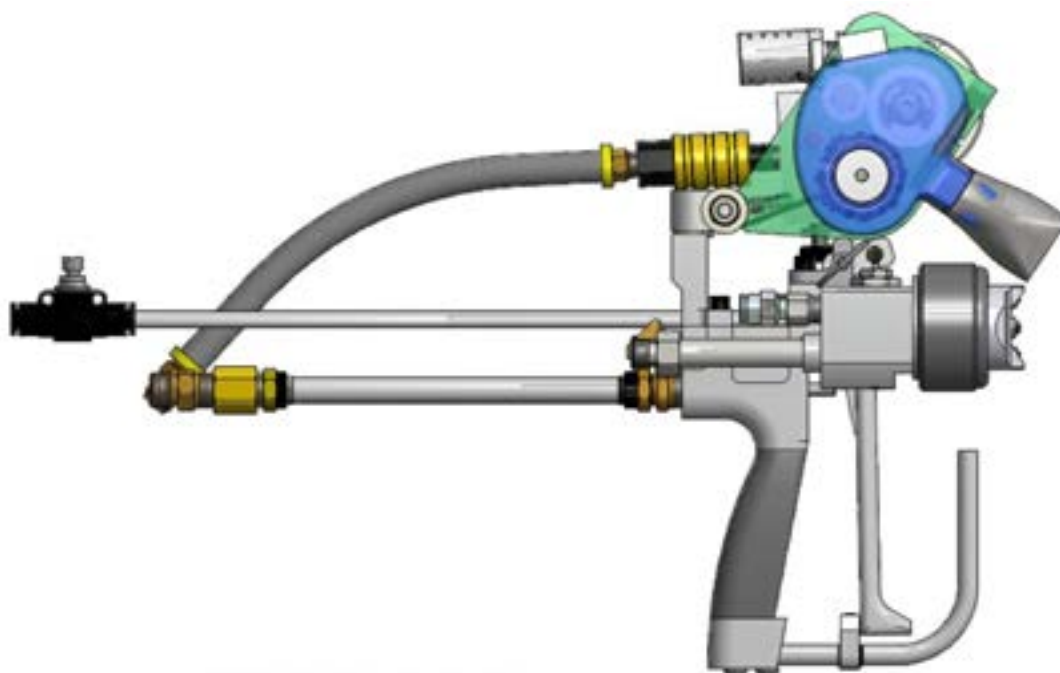


Chopper Gun Front – Classic Spray Tip:

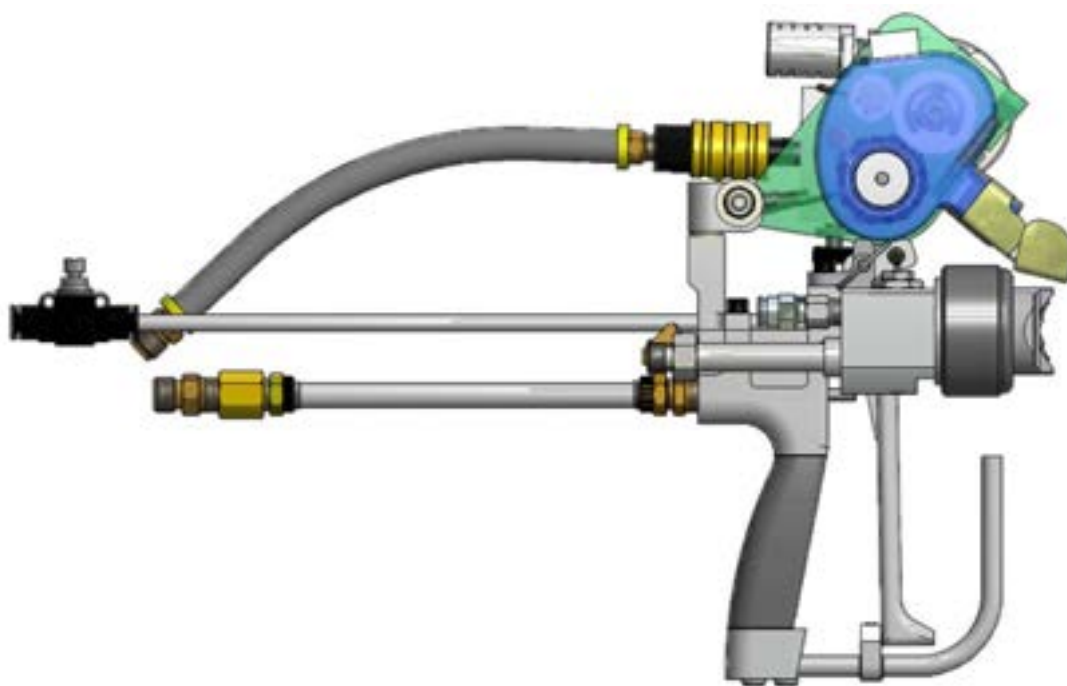




Chopper Options:

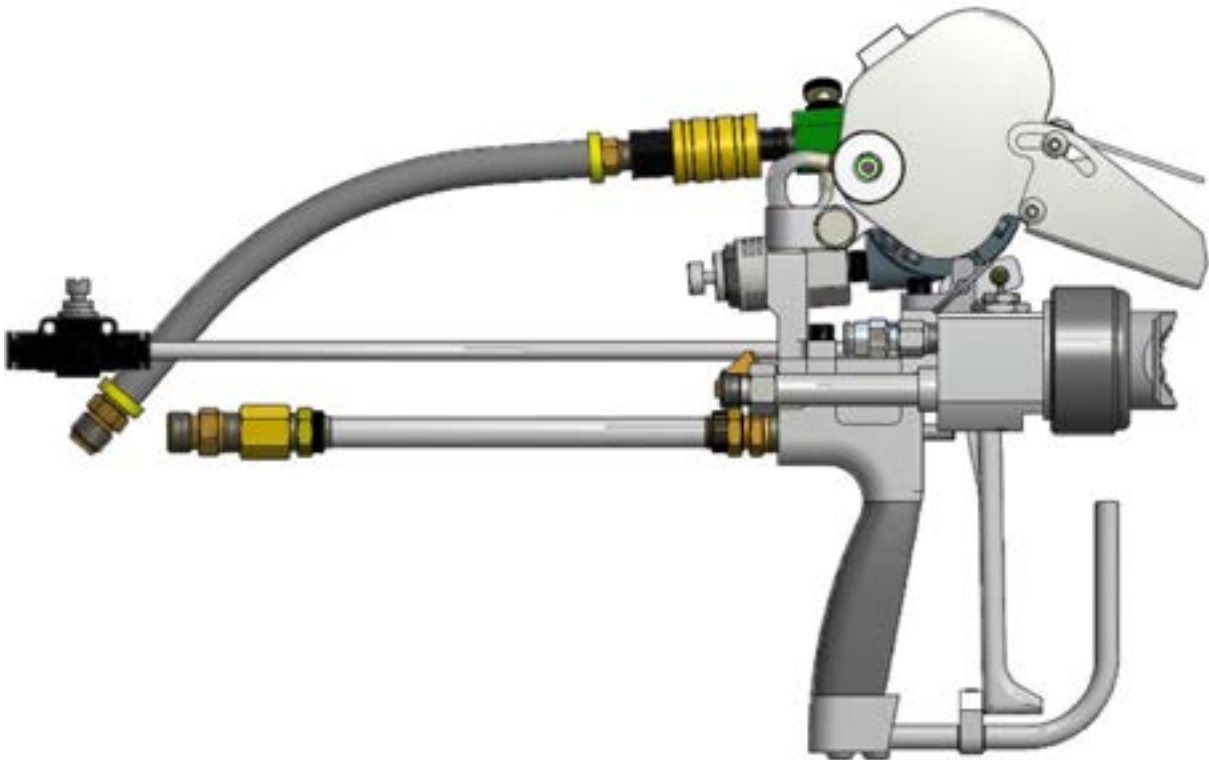


TLN-XC-100 OR TLN-XC-100S
W/ RC-1000-TLN-X AND RC-2000-TLN-X
HTC-1000-TLN-X, HTC-2000-TLN-X

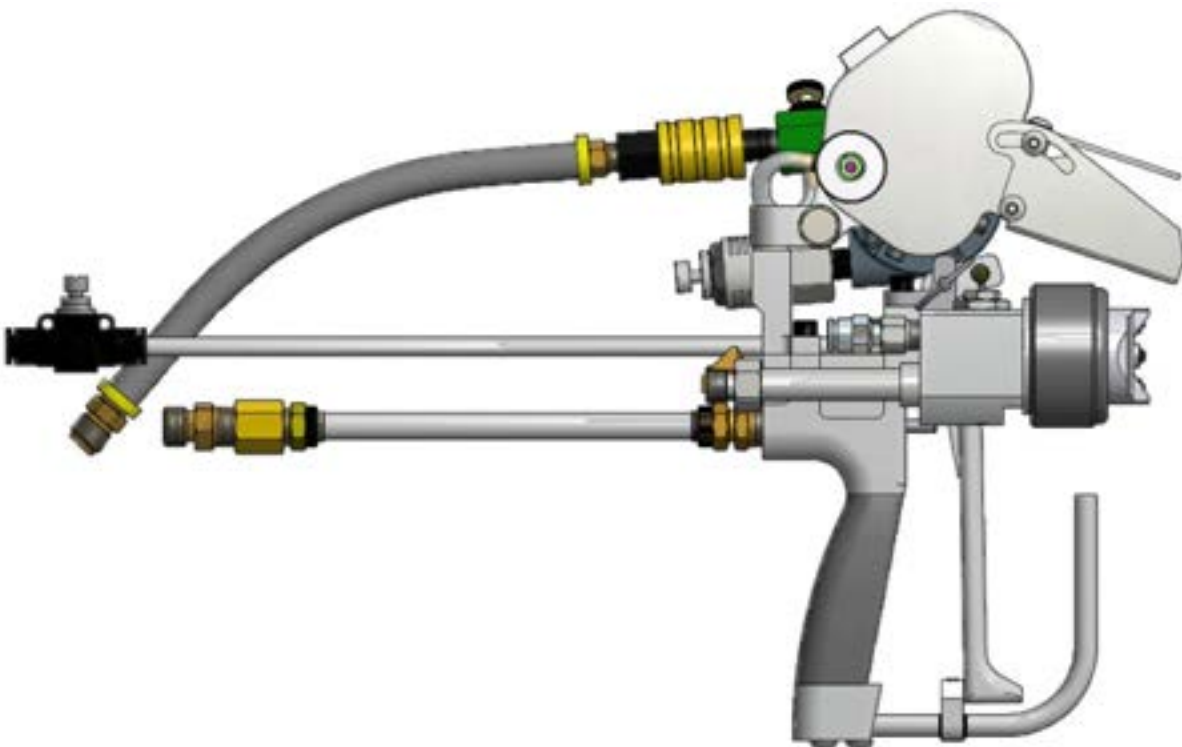


TLN-XC-200 OR TLN-XC-200S
W/ RC-1000-TLN-XF, RC-2000-TLN-XF,
HTC-1000-TLN-XF, HTC-2000-TLN-XF





TLN-XC-200 OR TLN-XC-200S
W/ VRC-1000-TLN-X, VHTC-1000-TLN-X



TLN-XC-100 OR TLN-XC-100S
W/ VRC-1000-TLN-X, VHTC-1000-TLN-X



Basic Troubleshooting:

Catalyst Problems		
Problem	Possible Cause(s)	Recommended Solution(s)
Catalyst leaking around the Catalyst Needle	Rod Seal Housing loose	Tighten Rod Seal Housing
	Damaged Rod Seal Assembly	Replace Rod Seal Assembly
	Damaged Catalyst Needle	Check and replace Catalyst Needle
Catalyst leaking around the Rod Seal Housing	Rod Seal Housing loose	Tighten Rod Seal Housing
	Damaged O-ring on the Rod Seal Housing	Replace the Rod Seal Housing O-ring
Catalyst leaking around Catalyst Cartridge	Catalyst Cartridge not tightened properly	Tighten the Catalyst Cartridge into the gun head
	Damaged O-ring on the Catalyst Cartridge	Replace the O-rings on the Catalyst Cartridge and check the Gun Head for damage
Catalyst leaking around Plug on the Bottom of the Gun Head	Damaged O-ring on the Plug Body	Replace the O-ring on the Plug Body, Check gun head for damage
Catalyst leaking around Catalyst Fitting	Catalyst Fitting loose	Tighten the Catalyst Fitting into the Gun Head
	Damaged O-ring on the Catalyst Fitting	Replace the O-ring on the Catalyst fitting and check the gun head for damage
Catalyst leaking from the front of the Gun block	Damaged O-ring in the Seat Insert	Replace the O-ring in the Seat Insert
	Damaged or Dirty Ball in the Catalyst Cartridge	Clean or Replace the catalyst ball as necessary
	Damaged Compression Spring	Check and replace the Compression Spring in the catalyst Cartridge
	Damaged O-ring on the Seat Insert	Replace the O-ring on the Seat Insert and check gun head for damage
	Catalyst Needle holding the Ball open	Check that the catalyst needle is moving freely and not being pressed down by the handle
Catalyst leaking into the Atomizing Air Tube	No Atomizing Air pressure	Make sure the Atomizing Air pressure is set properly
		Make sure the Atomizing Air hose is not blocked or kinked
	Blocked Catalyst Tip	Check that the Catalyst Tip is not plugged or blocked – clean or replace as necessary
	Blocked Gun Block Porting	Check the catalyst porting in the gun block for blockage
	Leaking or stuck Catalyst Needle	See solutions above for – Catalyst leaking from the front of the Gun block



Catalyst Problems - continued		
Problem	Possible Cause(s)	Recommended Solution(s)
No Catalyst from the gun	Stuck or Damaged Catalyst Needle	Check and repair Catalyst needle as necessary
		Check the Catalyst Ball and Spring for damage or blockage
	Blocked Catalyst Tip	Clean or replace the Catalyst Tip
	Gun Head porting blocked	Check and clean gun head porting
	Blocked catalyst hose or fitting	Be sure the catalyst hose and fitting is not block or damaged
	Damaged or blocked Catalyst Check Valve	Repair or replace the catalyst Check Valve
	Catalyst pump not working correctly	Repair the Catalyst Pump as necessary for proper operation
	Catalyst Pump disconnected from slave drive	Connect the catalyst pump to the slave drive and set to proper percentage. Connect the Slave drive to the pump
	Catalyst Ball valve or relief valve open on the catalyst manifold	Check the ball valve and relief valve on the catalyst manifold – close or repair as needed

Resin Problems		
Problem	Possible Cause(s)	Recommended Solution(s)
Resin leaking around the Actuating Rod	Rod Seal Housing loose	Tighten Rod Seal Housing
	Damaged Rod Seal Assembly	Replace Rod Seal Assembly
	Damaged Actuating Rod	Check and replace Actuating Rod
Resin leaking around the Rod Seal Housing	Rod Seal Housing loose	Tighten Rod Seal Housing
	Damaged O-ring on the Rod Seal Housing	Replace the Rod Seal Housing O-ring
Resin leaking around Material Cartridge	Material Cartridge not tightened properly	Tighten the Material Cartridge into the gun head
	Damaged O-ring on the Material Cartridge	Replace the O-rings on the Material Cartridge and check the Gun Head for damage
Resin leaking around Plug on the Bottom of the Gun Head	Damaged O-ring on the Plug Body	Replace the O-ring on the Plug Body, Check gun head for damage
Resin leaking around Resin Fitting	Resin Fitting loose	Tighten the Resin Fitting into the Gun Head
	Damaged O-ring on the Resin Fitting	Replace the O-ring on the Resin fitting and check the gun head for damage
Resin leaking around the Spray Tip	Damaged O-ring on the Spray Tip	Clean and replace the O-rings on the Spray Tip and check the gun head for damage

Resin Problems - continued		
Problem	Possible Cause(s)	Recommended Solution(s)
Resin leaking from the front of the Gun block / Spray Tip	Damaged or Dirty Ball in the Material Cartridge	Clean or Replace the Material Ball as necessary
	Damaged or Dirty Material Seat in Material Cartridge	Remove the Material Cartridge – check and clean ball seat
	Actuating Rod holding the Ball open	Check that the Actuating Rod is moving freely and not being pressed down by the handle
	Stuck or Damaged Actuating Rod	Check and repair Actuating Rod as necessary
	Damaged Compression Spring	Check and replace the Compression Spring in the Material Cartridge
No Resin from the gun	Blocked Spray Tip	Clean or replace the Spray Tip
	Actuating Rod not opening material ball	Check the Actuating Rod for damage and check the Material cartridge and ball.
	Gun Head porting blocked	Check and clean gun head porting
	Blocked resin hose or fitting	Be sure the resin hose and fitting is not block or damaged
	Resin pump not working correctly	Repair the Resin Pump as necessary for proper operation
	Resin Return Ball valve open	Close the Ball valve located below resin filter.

General Problems		
Problem	Possible Cause(s)	Recommended Solution(s)
Air leaking around the Air Valve	Damaged O-ring on the valve	Check and replace O-ring on the Air Valve.
		Check inside the handle for scratches or damage
Air leaking from Catalyst Needle	Damaged or missing compression spring	Check and replace compression spring as necessary
	Rod Seal Assembly leaking	Replace the Rod Seal Assembly
Resin, Catalyst or air leaking around the Catalyst Tip / Retaining Ring	Damaged Catalyst Needle	Replace the Catalyst Needle
	Retaining Ring not tight	Tighten the Retaining Ring
	Damaged O-ring between the Catalyst Tip and gun head	Check and replace the O-rings between the Catalyst Tip and gun head.
		Check for damage on the catalyst Tip and on the gun head

General Problems - continued		
Problem	Possible Cause(s)	Recommended Solution(s)
Air Assist not working	Air Control Valve not set	Slowly open the Air Control valve to develop a proper spray fan
	Blockage of air	Check the air hose / tube for kinks or leaks
		Check the elbow fitting and gun head for blockage
		Check the Catalyst Tip for blockage or damage

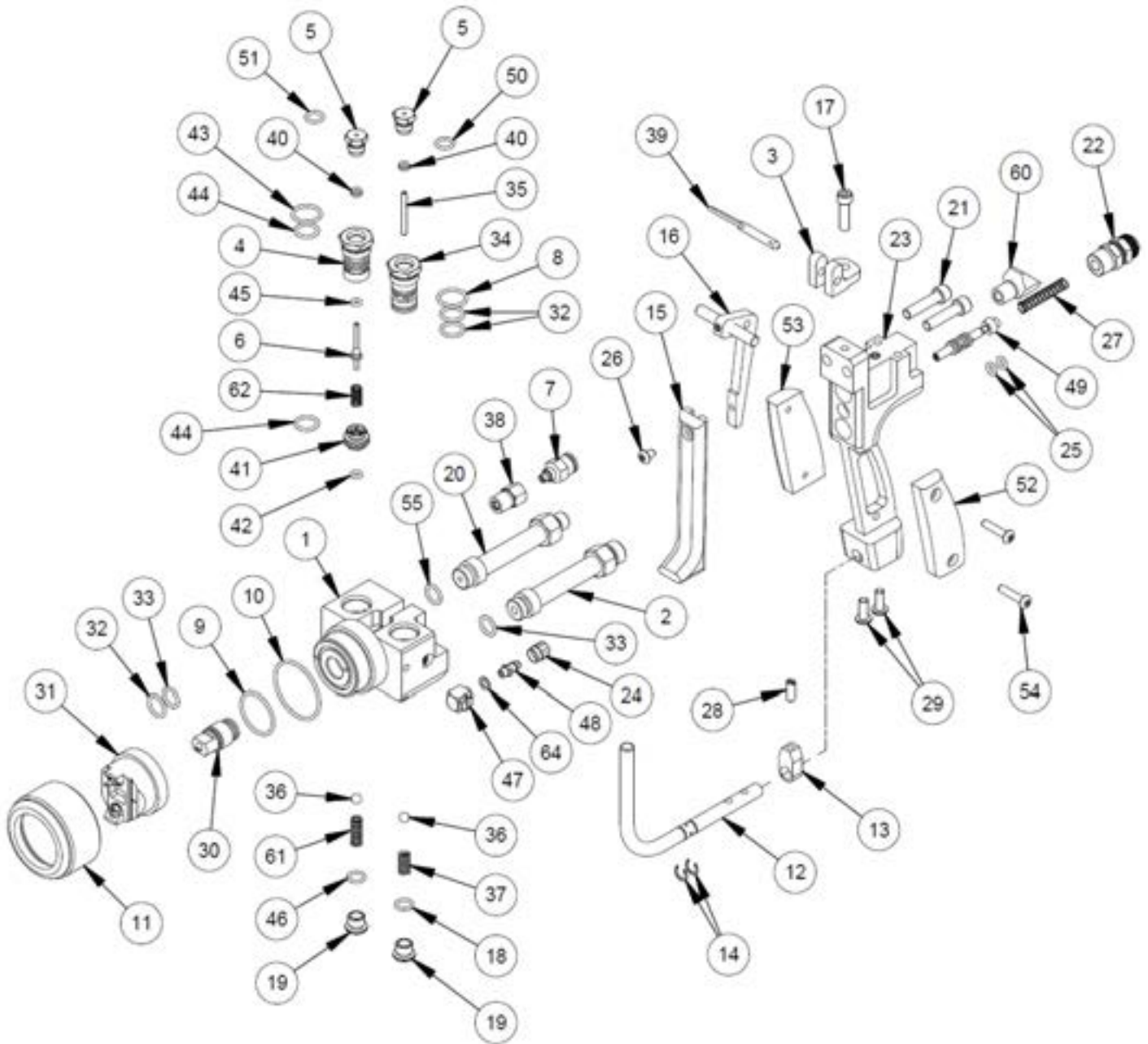


Parts Drawings:

PARTS DRAWINGS:

TLN-XC-100	TALON EXTERNAL MIX CHOP GUN ASSEMBLY
TLN-XC-100-INT	TALON EXTERNAL MIX CHOP GUN ASSEMBLY - INTERNATIONAL
TLN-XC-100S	TALON EXTERNAL MIX CHOP GUN ASSEMBLY - WITH SIGNAL
TLN-XC-100S-INT	TALON EXTERNAL MIX CHOP GUN ASSY - SIGNAL - INTERN.
TLN-XG-300	TALON EXTERNAL MIX GEL GUN ASSEMBLY
TLN-XG-300-INT	TALON EXTERNAL MIX GEL GUN ASSEMBLY - INTERNATIONAL
TLN-XG-300S	TALON EXTERNAL MIX GEL GUN ASSEMBLY - WITH SIGNAL
TLN-XG-300S-INT	TALON EXTERNAL MIX GEL GUN ASSY - SIGNAL - INTERN.
TLN-X-SK	EXTERNAL MIX SEAL KIT





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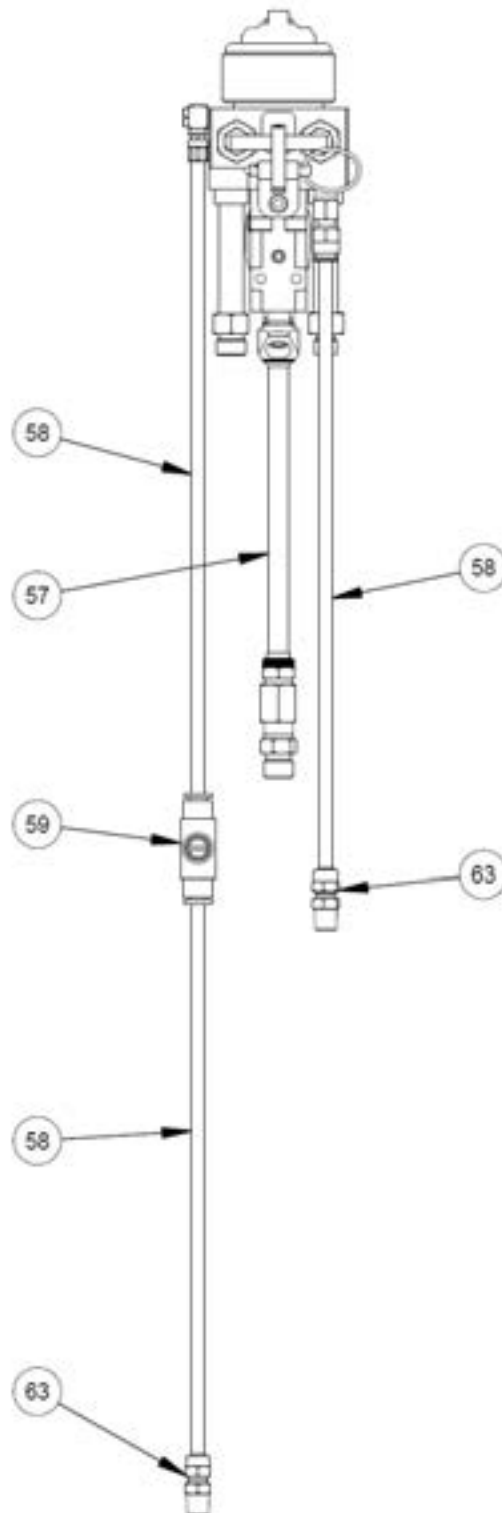
TALON EXTERNAL MIX CHOP GUN

TLN-XC-100

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4/7/2013



MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX CHOP GUN

TLN-XC-100

REV: E 10/17/2013

SHEET 2 / 3

4/7/2013

Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	TLN-2001-01	1	GUN HEAD ASSEMBLY
2	TLN-1005	1	RESIN FITTING
3	TLN-2008-RC	1	TRIGGER MOUNT
4	TLN-2084	1	CATALYST CARTRIDGE
5	TLN-2021	2	ROD SEAL HOUSING
6	TLN-2082	1	CATALYST NEEDLE
7	06977	1	FITTING
* 8	O-E-015	1	O-RING
* 9	O-E-021	1	O-RING
* 10	O-E-027	1	O-RING
11	TLN-2013	1	RETAINING RING
12	TLN-2009	1	TRIGGER GUARD
13	TLN-1028	1	TRIGGER STOP
14	TLN-1031	2	RETAINING RING
15	TLN-2025	1	TRIGGER
16	TLN-2020-01	1	TRIGGER ARM
17	F-CS-1224-12	1	CAP SCREW
* 18	O-E-3-903	1	O-RING
19	TLN-2006	2	PLUG
20	TLN-2014	1	CATALYST FITTING
21	F-CS-04F-16	2	SOCKET HEAD CAP SCREW
22	7701-3-35	1	MALE CONNECTOR
23	TLN-2003-01	1	HANDLE
24	7701-2-1	1	HOSE CLAMP - POLY TUBE
* 25	O-E-008	2	O-RING
26	F-BHCS-832-04	1	BUTTON HEAD CAP SCREW
27	04070-1	1	COMPRESSION SPRING
28	LWG-6527	1	SPRING PLUNGER
29	F-BHCS-1032-08	2	BUTTON HEAD CAP SCREW
30	TLN-XXX-CT	1	CLASSIC SPRAY TIP
31	TLN-40802-CP	1	CATALYST TIP
* 32	O-E-013	3	O-RING
* 33	O-E-012	2	O-RING
34	TLN-2028-01	1	MATERIAL CARTRIDGE
35	TLN-2016	1	ACTUATING ROD
36	TLN-2043	2	CERAMIC BALL
37	TLN-2044	1	SPRING
38	TLN-2023-01	1	CHECK VALVE
39	F-QP-03-12	1	QUICK RELEASE PIN
* 40	TLN-2029	2	ROD SEAL ASSEMBLY
41	TLN-2048	1	SEAT INSERT
* 42	O-A-007	1	O-RING
* 43	O-S-015	1	O-RING
* 44	O-S-013	2	O-RING
* 45	O-S-006	1	O-RING
* 46	O-S-3-903	1	O-RING
47	TRU-1021	1	SWIVEL ELBOW FITTING
48	7701-6-3	1	10-32 BARBED FITTING
49	TLN-2015-01-SIG	1	AIR VALVE - SIGNAL

Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
* 50	O-E-011	1	O-RING
* 51	O-S-011	1	O-RING
52	TLN-2033L-S	1	ERGONOMIC INSERT, LEFT
53	TLN-2033R-S	1	ERGONOMIC INSERT, RIGHT
54	F-BHCS-832-12	2	BUTTON HEAD CAP SCREW
* 55	O-S-012	1	O-RING
57	6506-1-0.5	1	POLY AIR WHIP
58	MS-2052-1	3	POLY TUBE
59	TLN-2046	1	AIR CONTROL VALVE
60	PI-SE-02-05T-45	1	ELBOW
61	TLN-2047	1	BALL SPRING
62	TLN-2049	1	NEEDLE SPRING
63	7701-6-14	2	STRAIGHT POLY FITTING
* 64	7304-3-1	1	NYLON SEAL

REPAIR KIT

* TLN-X-SK (ASTERISKS DENOTE PARTS IN KIT)

AVAILABLE SEPARATELY

TLN-X-CTR-C CATALYST CARTRIDGE ASSEMBLY
INCLUDES ITEMS 4,5,6,40,41,42,43,44,45,51,62TLN-X-CTR-M MATERIAL CARTRIDGE ASSEMBLY
INCLUDES ITEMS 5,8,32,34,35,40,50

MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX CHOP GUN

TLN-XC-100

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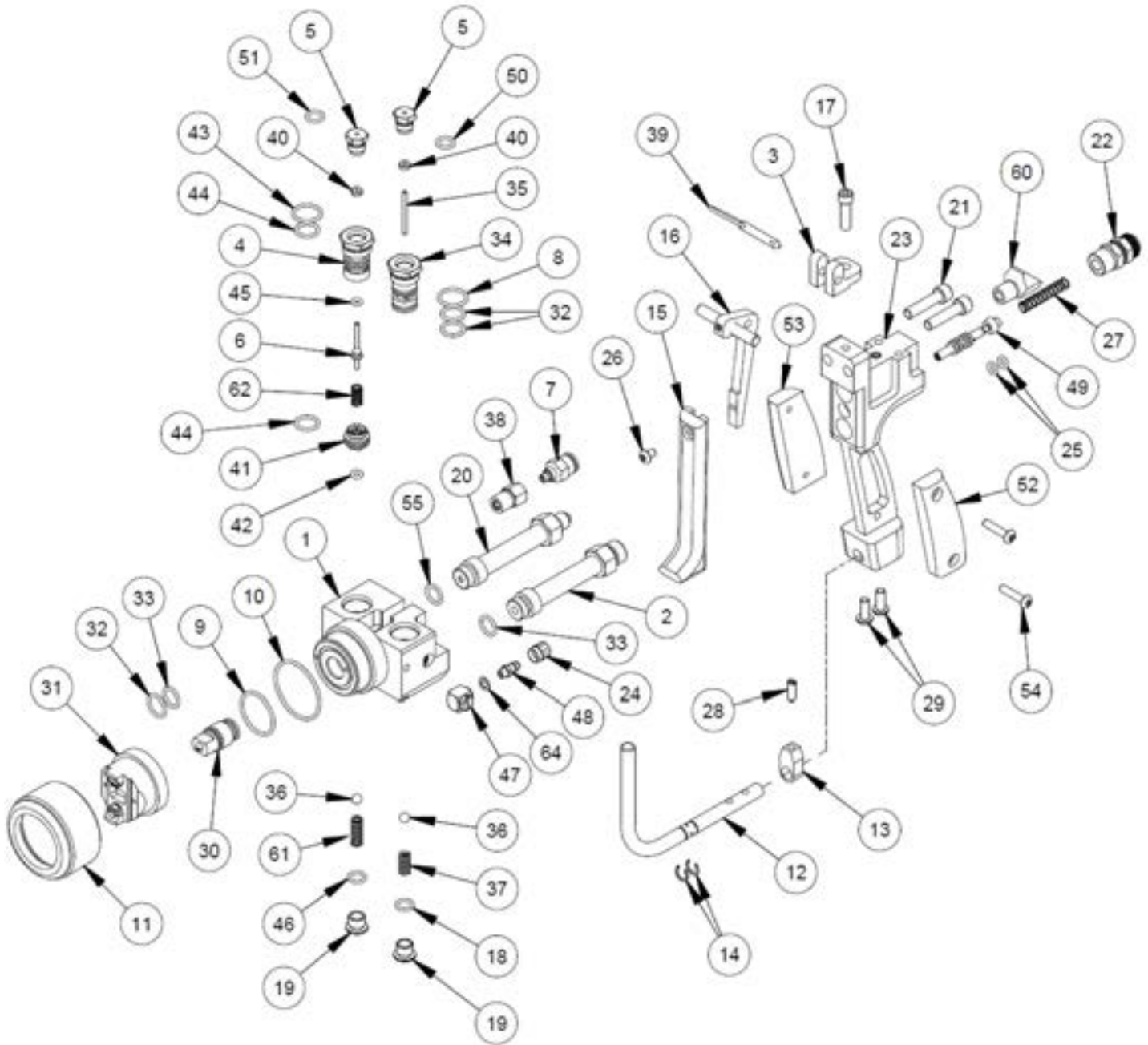
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MAGNUM VENUS PLASTECH

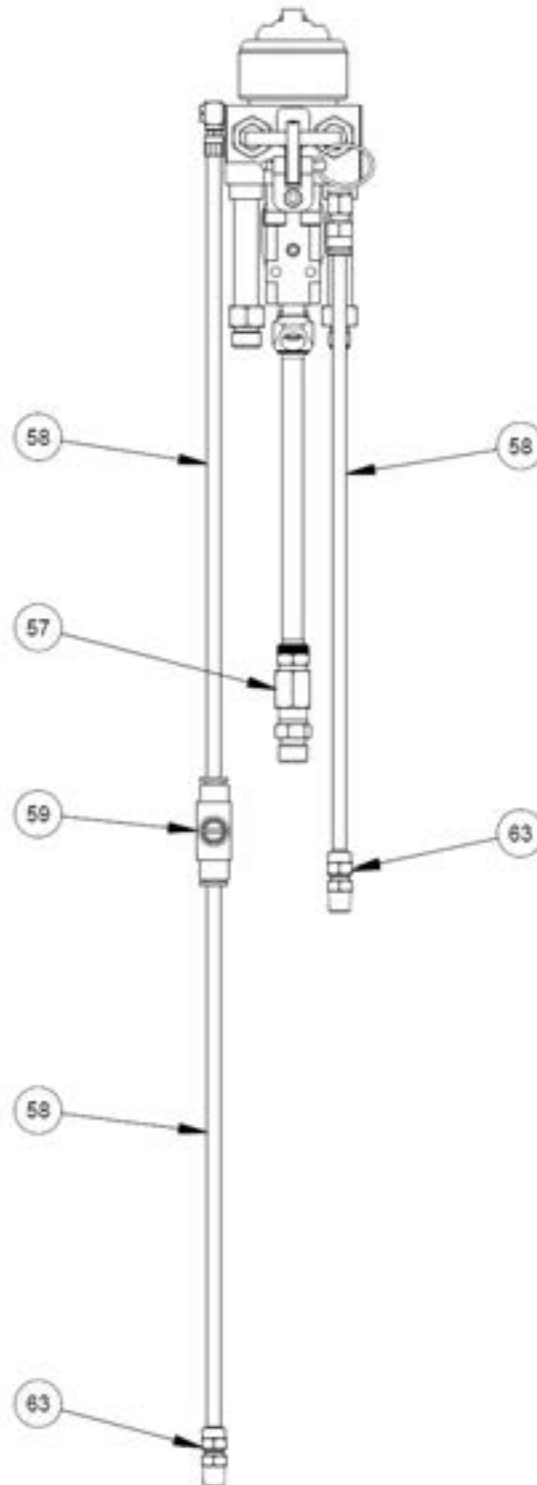
TALON EXTERNAL MIX CHOP GUN

TLN-XC-100-INT

REV:E 10/17/2013

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MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX CHOP GUN

TLN-XC-100-INT

REV:E 10/17/2013

SHEET 2 / 3

5/9/2013

Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	TLN-2001-01	1	GUN HEAD ASSEMBLY
2	TLN-1005	1	RESIN FITTING
3	TLN-2008-RC	1	TRIGGER MOUNT
4	TLN-2084	1	CATALYST CARTRIDGE
5	TLN-2021	2	ROD SEAL HOUSING
6	TLN-2082	1	CATALYST NEEDLE
7	06977	1	FITTING
* 8	O-E-015	1	O-RING
* 9	O-E-021	1	O-RING
* 10	O-E-027	1	O-RING
11	TLN-2013	1	RETAINING RING
12	TLN-2009	1	TRIGGER GUARD
13	TLN-1028	1	TRIGGER STOP
14	TLN-1031	2	RETAINING RING
15	TLN-2025	1	TRIGGER
16	TLN-2020-01	1	TRIGGER ARM
17	F-CS-1224-12	1	CAP SCREW
* 18	O-E-3-903	1	O-RING
19	TLN-2006	2	PLUG
20	TLN-1006	1	CATALYST FITTING
21	F-CS-04F-16	2	SOCKET HEAD CAP SCREW
22	7701-3-35	1	MALE CONNECTOR
23	TLN-2003-01	1	HANDLE
24	7701-2-1	1	HOSE CLAMP - POLY TUBE
* 25	O-E-008	2	O-RING
26	F-BHCS-832-04	1	BUTTON HEAD CAP SCREW
27	04070-1	1	COMPRESSION SPRING
28	LWG-6527	1	SPRING PLUNGER
29	F-BHCS-1032-08	2	BUTTON HEAD CAP SCREW
30	TLN-XXX-CT	1	CLASSIC SPRAY TIP
31	TLN-40802-CP-INT	1	CATALYST TIP
* 32	O-E-013	3	O-RING
* 33	O-E-012	2	O-RING
34	TLN-2028-01	1	MATERIAL CARTRIDGE
35	TLN-2016	1	ACTUATING ROD
36	TLN-2043	2	CERAMIC BALL
37	TLN-2044	1	SPRING
38	TLN-2023-01	1	CHECK VALVE
39	F-QP-03-12	1	QUICK RELEASE PIN
* 40	TLN-2029	2	ROD SEAL ASSEMBLY
41	TLN-2048	1	SEAT INSERT
* 42	O-A-007	1	O-RING
* 43	O-S-015	1	O-RING
* 44	O-S-013	2	O-RING
* 45	O-S-006	1	O-RING
* 46	O-S-3-903	1	O-RING
47	TRU-1021	1	SWIVEL ELBOW FITTING
48	7701-6-3	1	10-32 BARBED FITTING
49	TLN-2015-01-SIG	1	AIR VALVE - SIGNAL

Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
* 50	O-E-011	1	O-RING
* 51	O-S-011	1	O-RING
52	TLN-2033L-S	1	ERGONOMIC INSERT, LEFT
53	TLN-2033R-S	1	ERGONOMIC INSERT, RIGHT
54	F-BHCS-832-12	2	BUTTON HEAD CAP SCREW
* 55	O-S-012	1	O-RING
57	6506-1-0.5	1	POLY AIR WHIP
58	MS-2052-1	3	POLY TUBE
59	TLN-2046	1	AIR CONTROL VALVE
60	PF-SE-02-05T-45	1	ELBOW
61	TLN-2047	1	BALL SPRING
62	TLN-2049	1	NEEDLE SPRING
63	7701-6-14	2	STRAIGHT POLY FITTING
* 64	7304-3-1	1	NYLON SEAL

REPAIR KIT

* TLN-X-SK (ASTERISKS DENOTE PARTS IN KIT)

AVAILABLE SEPARATELY

TLN-X-CTR-C CATALYST CARTRIDGE ASSEMBLY
INCLUDES ITEMS 4,5,6,40,41,42,43,44,45,51,62TLN-X-CTR-M MATERIAL CARTRIDGE ASSEMBLY
INCLUDES ITEMS 5,8,32,34,35,40,50

MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX CHOP GUN

TLN-XC-100-INT

REV:E 10/17/2013

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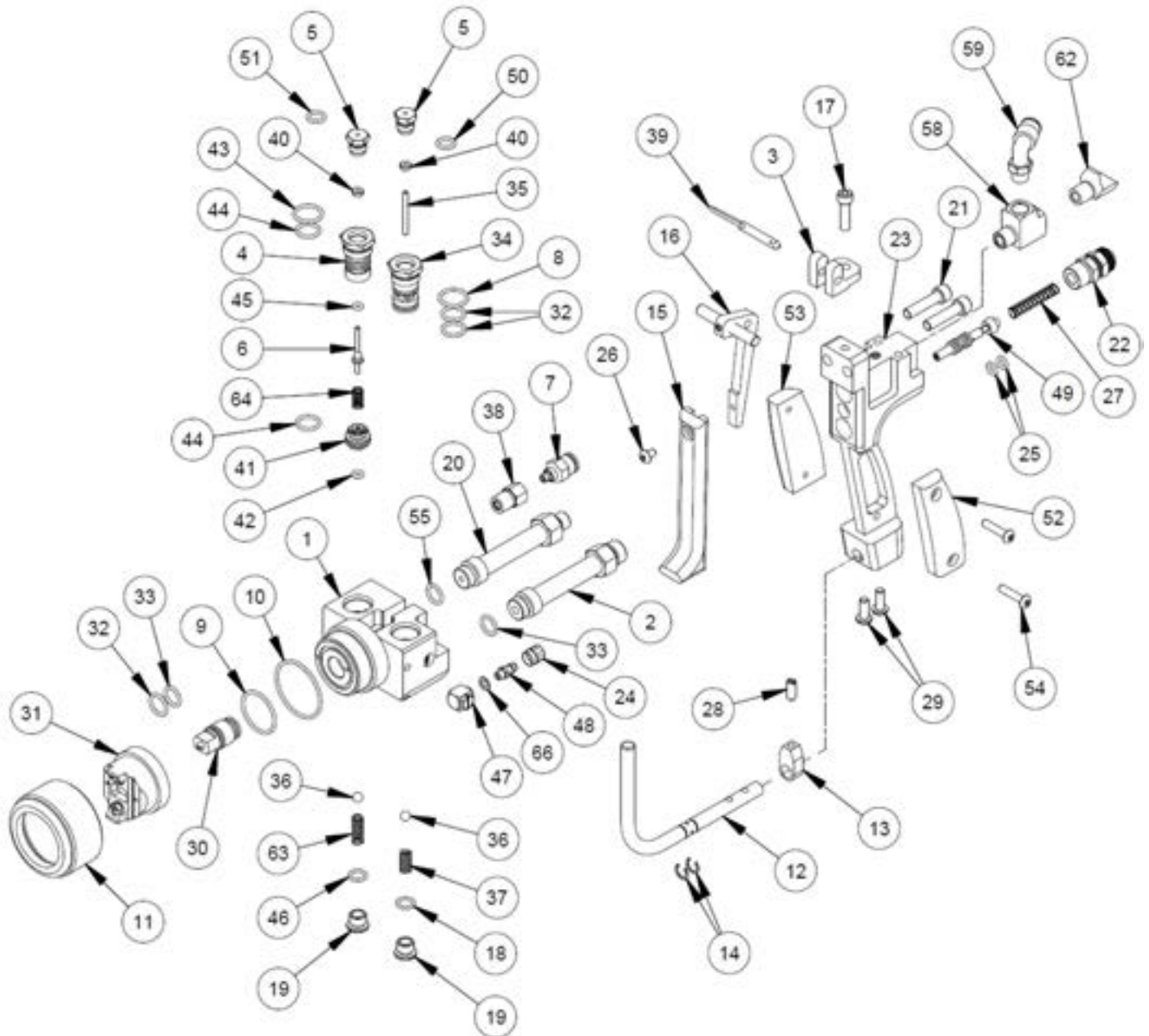
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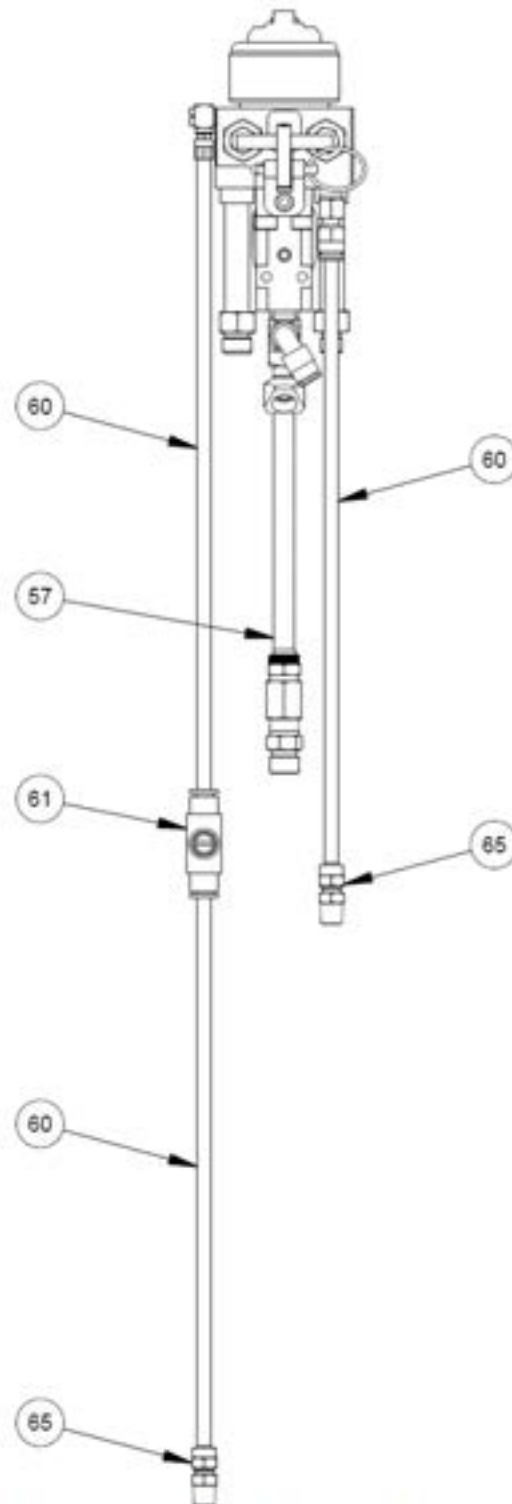
TALON EXTERNAL MIX CHOP GUN - W/SIGNAL

TLN-XC-100S

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MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX CHOP GUN - W/SIGNAL

TLN-XC-100S

REV:E 10/17/2013

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Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	TLN-2001-01	1	GUN HEAD ASSEMBLY
2	TLN-1005	1	RESIN FITTING
3	TLN-2008-RC	1	TRIGGER MOUNT
4	TLN-2084	1	CATALYST CARTRIDGE
5	TLN-2021	2	ROD SEAL HOUSING
6	TLN-2082	1	CATALYST NEEDLE
7	06977	1	FITTING
* 8	O-E-015	1	O-RING
* 9	O-E-021	1	O-RING
* 10	O-E-027	1	O-RING
11	TLN-2013	1	RETAINING RING
12	TLN-2009	1	TRIGGER GUARD
13	TLN-1028	1	TRIGGER STOP
14	TLN-1031	2	RETAINING RING
15	TLN-2025	1	TRIGGER
16	TLN-2020-01	1	TRIGGER ARM
17	F-CS-1224-12	1	CAP SCREW
* 18	O-E-3-903	1	O-RING
19	TLN-2006	2	PLUG
20	TLN-2014	1	CATALYST FITTING
21	F-CS-04F-16	2	SOCKET HEAD CAP SCREW
22	7701-3-35	1	MALE CONNECTOR
23	TLN-2003-01	1	HANDLE
24	7701-2-1	1	HOSE CLAMP - POLY TUBE
* 25	O-E-008	2	O-RING
26	F-BHCS-832-04	1	BUTTON HEAD CAP SCREW
27	04070-1	1	COMPRESSION SPRING
28	LWG-6527	1	SPRING PLUNGER
29	F-BHCS-1032-08	2	BUTTON HEAD CAP SCREW
30	TLN-XXX-CT	1	CLASSIC SPRAY TIP
31	TLN-40802-CP	1	CATALYST TIP
* 32	O-E-013	3	O-RING
* 33	O-E-012	2	O-RING
34	TLN-2028-01	1	MATERIAL CARTRIDGE
35	TLN-2016	1	ACTUATING ROD
36	TLN-2043	2	CERAMIC BALL
37	TLN-2044	1	SPRING
38	TLN-2023-01	1	CHECK VALVE
39	F-QP-03-12	1	QUICK RELEASE PIN
* 40	TLN-2029	2	ROD SEAL ASSEMBLY
41	TLN-2048	1	SEAT INSERT
* 42	O-A-007	1	O-RING
* 43	O-S-015	1	O-RING
* 44	O-S-013	2	O-RING
* 45	O-S-006	1	O-RING
* 46	O-S-3-903	1	O-RING
47	TRU-1021	1	SWIVEL ELBOW FITTING
48	7701-6-3	1	10-32 BARBED FITTING
49	TLN-2015-01-SIG	1	AIR VALVE - SIGNAL
* 50	O-E-011	1	O-RING
* 51	O-S-011	1	O-RING
52	TLN-2033L-S	1	ERGONOMIC INSERT, LEFT
53	TLN-2033R-S	1	ERGONOMIC INSERT, RIGHT
54	F-BHCS-832-12	2	BUTTON HEAD CAP SCREW
* 55	O-S-012	1	O-RING

Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
57	6506-1-0.5	1	POLY AIR WHIP
58	PF-ST-02-BR	1	TEE FITTING
59	MPH-2539	1	MALE ELBOW
60	MS-2052-1	3	POLY TUBE
61	TLN-2046	1	AIR CONTROL VALVE
62	PF-SE-02-05T-45	1	ELBOW
63	TLN-2047	1	BALL SPRING
64	TLN-2049	1	NEEDLE SPRING
65	7701-6-14	2	STRAIGHT POLY FITTING
* 66	7304-3-1	1	NYLON SEAL

REPAIR KIT

*TLN-X-SK (ASTERISKS DENOTE PARTS IN KIT)

AVAILABLE SEPARATELY

TLN-X-CTR-C CATALYST CARTRIDGE ASSEMBLY
INCLUDES ITEMS 4,5,6,40,41,42,43,44,45,51,64TLN-X-CTR-M MATERIAL CARTRIDGE ASSEMBLY
INCLUDES ITEMS 5,8,32,34,35,40,50

MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX CHOP GUN - W/SIGNAL

TLN-XC-100S

REV: E 10/17/2013

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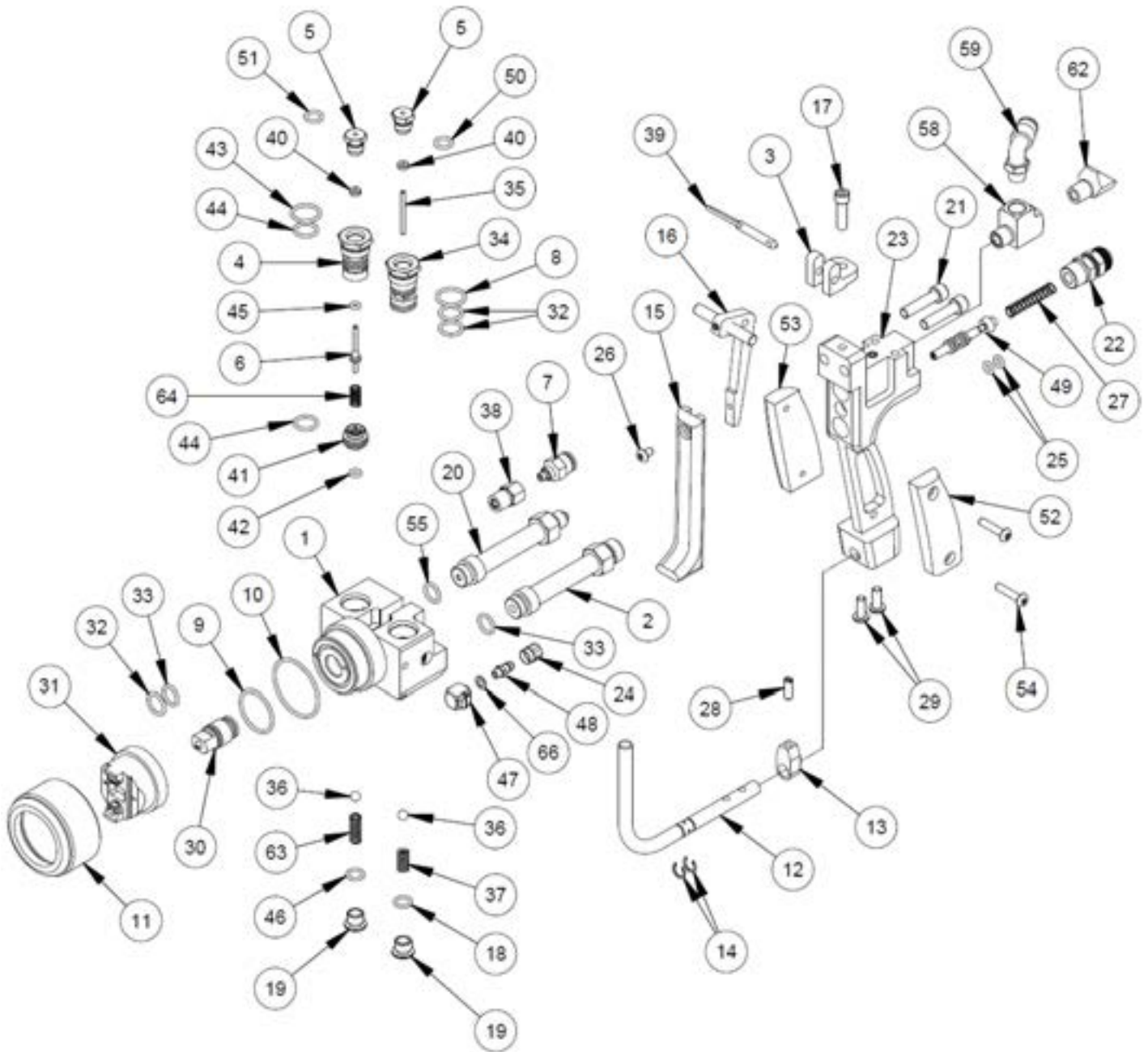
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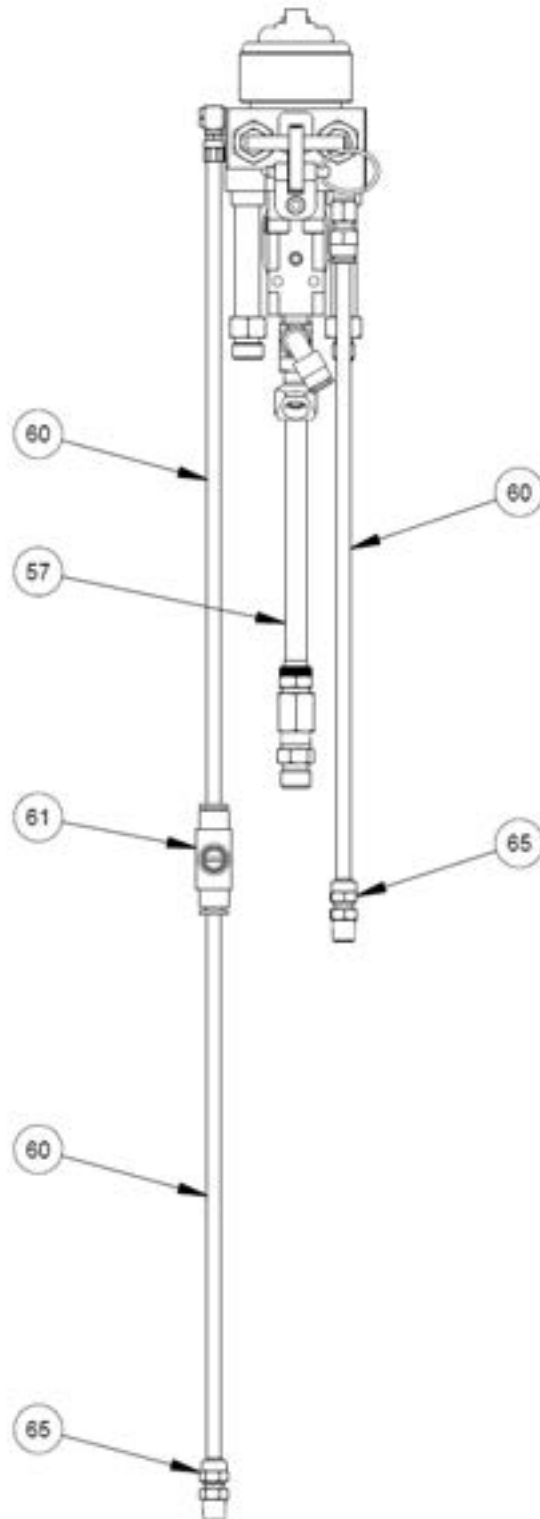
TALON EXTERNAL MIX CHOP GUN - W/SIGNAL

TLN-XC-100S-INT

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MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX CHOP GUN - W/SIGNAL

TLN-XC-100S-INT

REV:E 10/17/2013

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Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	TLN-2001-01	1	GUN HEAD ASSEMBLY
2	TLN-1005	1	RESIN FITTING
3	TLN-2008-RC	1	TRIGGER MOUNT
4	TLN-2084	1	CATALYST CARTRIDGE
5	TLN-2021	2	ROD SEAL HOUSING
6	TLN-2082	1	CATALYST NEEDLE
7	06977	1	FITTING
* 8	O-E-015	1	O-RING
* 9	O-E-021	1	O-RING
* 10	O-E-027	1	O-RING
11	TLN-2013	1	RETAINING RING
12	TLN-2009	1	TRIGGER GUARD
13	TLN-1028	1	TRIGGER STOP
14	TLN-1031	2	RETAINING RING
15	TLN-2025	1	TRIGGER
16	TLN-2020-01	1	TRIGGER ARM
17	F-CS-1224-12	1	CAP SCREW
* 18	O-E-3-903	1	O-RING
19	TLN-2006	2	PLUG
20	TLN-1006	1	CATALYST FITTING
21	F-CS-04F-16	2	SOCKET HEAD CAP SCREW
22	7701-3-35	1	MALE CONNECTOR
23	TLN-2003-01	1	HANDLE
24	7701-2-1	1	HOSE CLAMP - POLY TUBE
* 25	O-E-008	2	O-RING
26	F-BHCS-832-04	1	BUTTON HEAD CAP SCREW
27	04070-1	1	COMPRESSION SPRING
28	LWG-6527	1	SPRING PLUNGER
29	F-BHCS-1032-08	2	BUTTON HEAD CAP SCREW
30	TLN-XXX-CT	1	CLASSIC SPRAY TIP
31	TLN-40802-CP-INT	1	CATALYST TIP
* 32	O-E-013	3	O-RING
* 33	O-E-012	2	O-RING
34	TLN-2028-01	1	MATERIAL CARTRIDGE
35	TLN-2016	1	ACTUATING ROD
36	TLN-2043	2	CERAMIC BALL
37	TLN-2044	1	SPRING
38	TLN-2023-01	1	CHECK VALVE
39	F-QP-03-12	1	QUICK RELEASE PIN
* 40	TLN-2029	2	ROD SEAL ASSEMBLY
41	TLN-2048	1	SEAT INSERT
* 42	O-A-007	1	O-RING
* 43	O-S-015	1	O-RING
* 44	O-S-013	2	O-RING
* 45	O-S-006	1	O-RING
* 46	O-S-3-903	1	O-RING
47	TRU-1021	1	SWIVEL ELBOW FITTING
48	7701-6-3	1	10-32 BARBED FITTING
49	TLN-2015-01-SBG	1	AIR VALVE - SIGNAL
* 50	O-E-011	1	O-RING
* 51	O-S-011	1	O-RING
52	TLN-2033L-S	1	ERGONOMIC INSERT, LEFT
53	TLN-2033R-S	1	ERGONOMIC INSERT, RIGHT
54	F-BHCS-832-12	2	BUTTON HEAD CAP SCREW
* 55	O-S-012	1	O-RING

Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
57	6506-1-0.5	1	POLY AIR WHIP
58	PF-ST-02-BR	1	TEE FITTING
59	MPH-2539	1	MALE ELBOW
60	MS-2052-1	3	POLY TUBE
61	TLN-2046	1	AIR CONTROL VALVE
62	PF-SE-02-05T-45	1	ELBOW
63	TLN-2047	1	BALL SPRING
64	TLN-2049	1	NEEDLE SPRING
65	7701-6-14	2	STRAIGHT POLY FITTING
* 66	7304-3-1	1	NYLON SEAL

REPAIR KIT

* TLN-X-SK (ASTERISKS DENOTE PARTS IN KIT)

AVAILABLE SEPARATELY

TLN-X-CTR-C CATALYST CARTRIDGE ASSEMBLY
INCLUDES ITEMS 4,5,6,40,41,42,43,44,45,51,64TLN-X-CTR-M MATERIAL CARTRIDGE ASSEMBLY
INCLUDES ITEMS 5,8,32,34,35,40,50**MAGNUM VENUS PLASTECH**

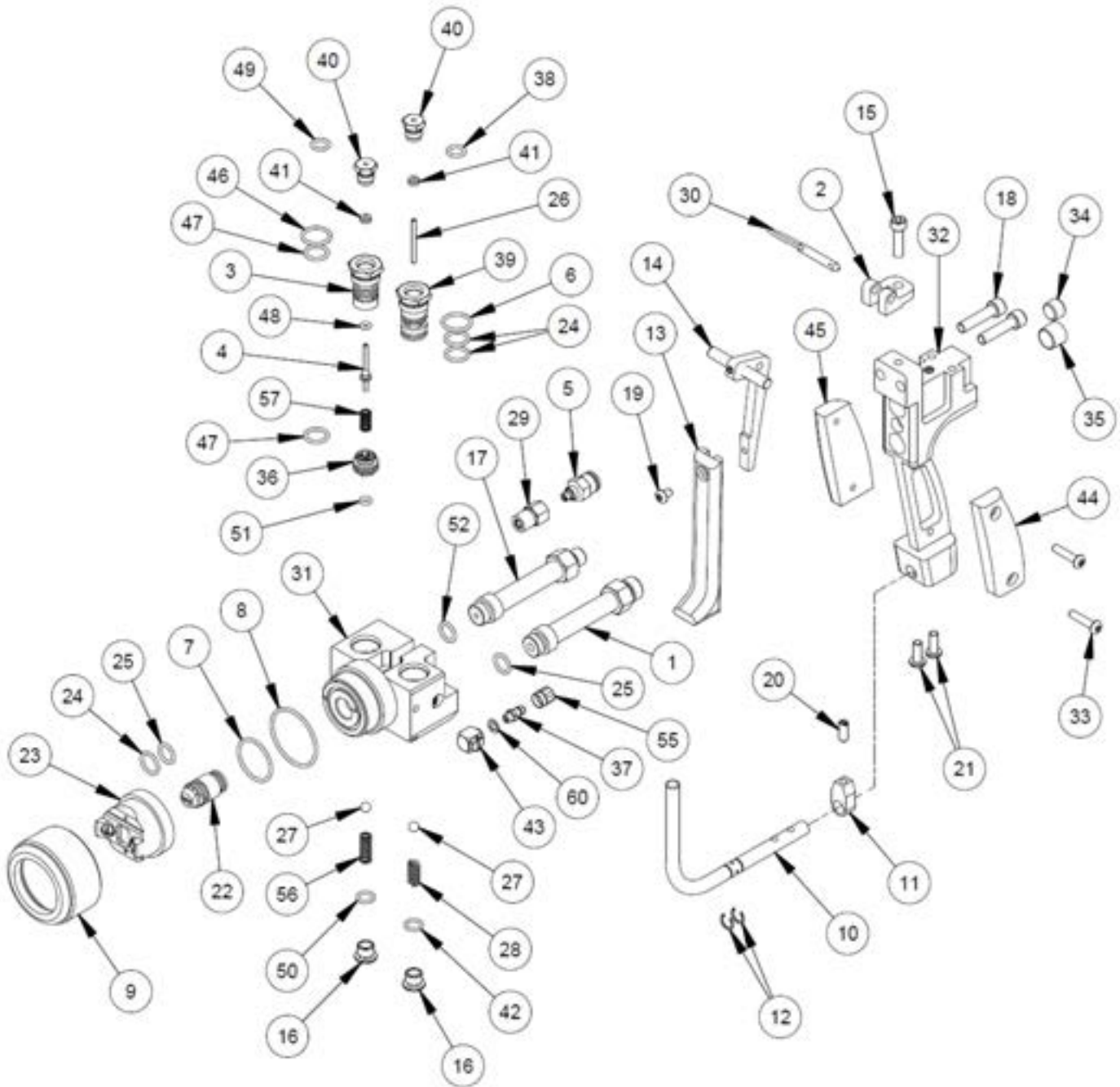
TALON EXTERNAL MIX CHOP GUN - W/SIGNAL

TLN-XC-100S-INT

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MAGNUM VENUS PLASTECH

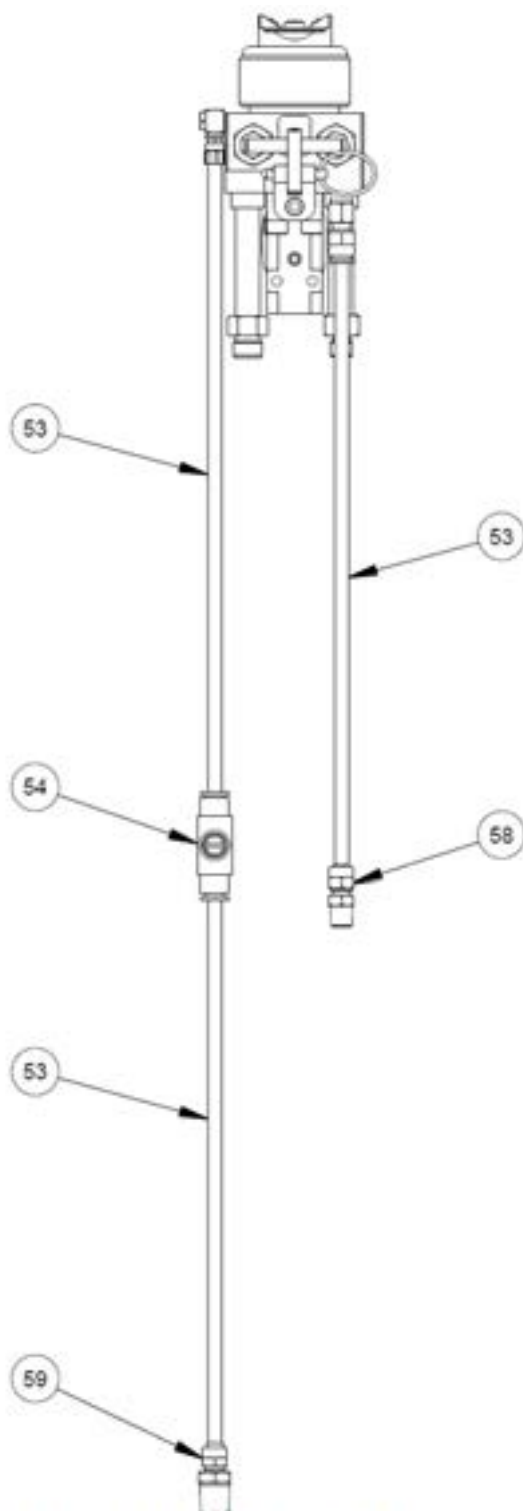
TALON EXTERNAL MIX GELCOAT GUN - PREMIUM SPRAY TIP

TLN-XG-300

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MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX GELCOAT GUN - PREMIUM SPRAY TIP

TLN-XG-300

REV: C 10/18/2013

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Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	TLN-1005	1	RESIN FITTING
2	TLN-2008	1	TRIGGER MOUNT
3	TLN-2084	1	CATALYST CARTRIDGE
4	TLN-2082	1	CATALYST NEEDLE
5	06977	1	FITTING
* 6	O-E-015	1	O-RING
* 7	O-E-021	1	O-RING
* 8	O-E-027	1	O-RING
9	TLN-2013	1	RETAINING RING
10	TLN-2009	1	TRIGGER GUARD
11	TLN-1028	1	TRIGGER STOP
12	TLN-1031	2	RETAINING RING
13	TLN-2025	1	TRIGGER
14	TLN-2020-01	1	TRIGGER ARM
15	F-CS-1224-12	1	CAP SCREW
16	TLN-2006	2	PLUG
17	TLN-2014	1	CATALYST FITTING
18	F-CS-04F-16	2	SOCKET HEAD CAP SCREW
19	F-BHCS-832-04	1	BUTTON HEAD CAP SCREW
20	LWG-6527	1	SPRING PLUNGER
21	F-BHCS-1032-08	2	BUTTON HEAD CAP SCREW
22	TLN-XXX	1	SPRAY TIP
23	TLN-40402-CP	1	CATALYST TIP
* 24	O-E-013	3	O-RING
* 25	O-E-012	2	O-RING
26	TLN-2016	1	ACTUATING ROD
27	TLN-2043	2	CERAMIC BALL
28	TLN-2044	1	SPRING
29	TLN-2023-01	1	CHECK VALVE
30	F-QP-03-12	1	QUICK RELEASE PIN
31	TLN-2001-01	1	GUN HEAD ASSEMBLY
32	TLN-2003-01	1	HANDLE
33	F-BHCS-832-12	2	BUTTON HEAD CAP SCREW
34	PF-AP-02	1	PIPE PLUG
35	PF-AP-04	1	ALLEN PLUG
36	TLN-2048	1	SEAT INSERT
37	7701-6-3	1	10-32 BARBED FITTING
* 38	O-E-011	1	O-RING
39	TLN-2028-01	1	MATERIAL CARTRIDGE
40	TLN-2021	2	ROD SEAL HOUSING
* 41	TLN-2029	2	ROD SEAL ASSEMBLY
* 42	O-E-3-903	1	O-RING
43	TRU-1021	1	SWIVEL ELBOW FITTING
44	TLN-2033L-S	1	ERGONOMIC INSERT, LEFT
45	TLN-2033R-S	1	ERGONOMIC INSERT, RIGHT
* 46	O-S-015	1	O-RING
* 47	O-S-013	2	O-RING
* 48	O-S-006	1	O-RING
* 49	O-S-011	1	O-RING
* 50	O-S-3-903	1	O-RING
* 51	O-A-007	1	O-RING
* 52	O-S-012	1	O-RING

Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
53	MS-2052-1	3	POLY TUBE
54	TLN-2046	1	AIR CONTROL VALVE
55	7701-2-1	1	HOSE CLAMP - POLY TUBE
56	TLN-2047	1	BALL SPRING
57	TLN-2049	1	NEEDLE SPRING
58	7701-6-14	1	STRAIGHT POLY FITTING
59	00383	1	MALE CONNECTOR
* 60	7304-3-1	1	NYLON SEAL

REPAIR KIT

* TLN-X-SK (ASTERISKS DENOTE PARTS IN KIT)

AVAILABLE SEPARATELY

TLN-X-CTR-C CATALYST CARTRIDGE ASSEMBLY
INCLUDES ITEMS 3,4,36,40,41,46,47,48,49,51,57TLN-X-CTR-M MATERIAL CARTRIDGE ASSEMBLY
INCLUDES ITEMS 6,24,26,38,39,40,41

MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX GELCOAT GUN - PREMIUM SPRAY TIP

TLN-XG-300

REV:C 10/18/2013

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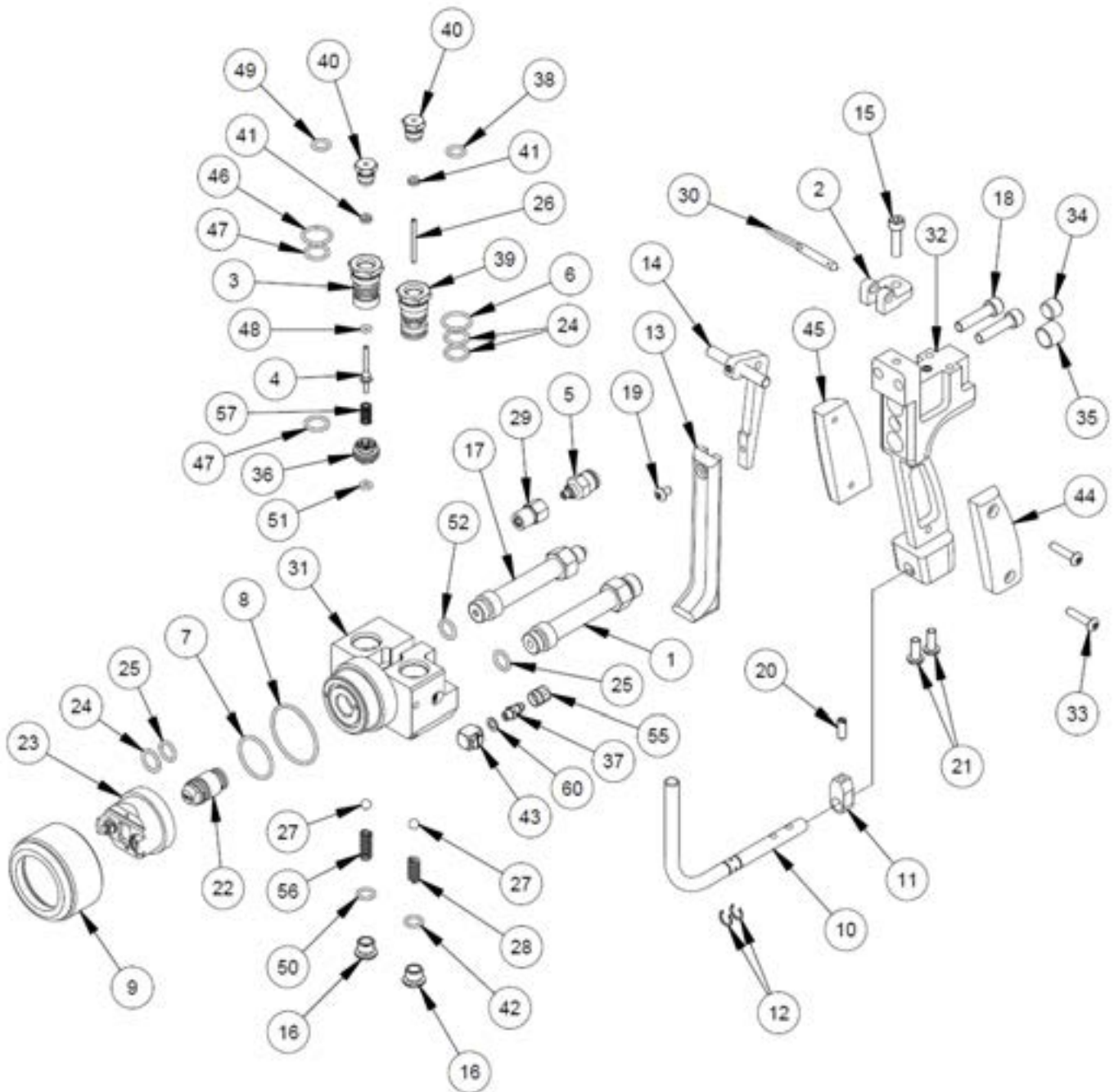
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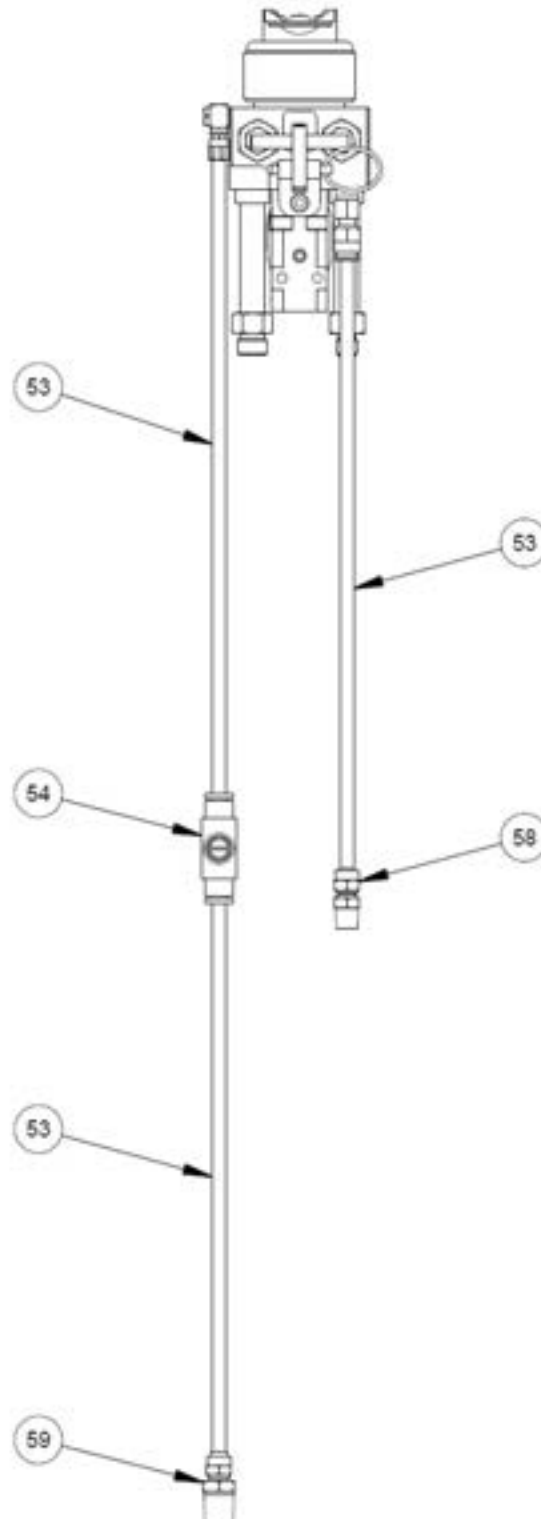
TALON EXTERNAL MIX GELCOAT GUN - PREMIUM SPRAY TIP

TLN-XG-300-INT

REV:C 10/18/2013

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MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX GELCOAT GUN - PREMIUM SPRAY TIP

TLN-XG-300-INT

REV: C 10/18/2013

SHEET 2 / 3

5/9/2013

Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	TLN-1005	1	RESIN FITTING
2	TLN-2008	1	TRIGGER MOUNT
3	TLN-2084	1	CATALYST CARTRIDGE
4	TLN-2082	1	CATALYST NEEDLE
5	06977	1	FITTING
* 6	O-E-015	1	O-RING
* 7	O-E-021	1	O-RING
* 8	O-E-027	1	O-RING
9	TLN-2013	1	RETAINING RING
10	TLN-2009	1	TRIGGER GUARD
11	TLN-1028	1	TRIGGER STOP
12	TLN-1031	2	RETAINING RING
13	TLN-2025	1	TRIGGER
14	TLN-2020-01	1	TRIGGER ARM
15	F-CS-1224-12	1	CAP SCREW
16	TLN-2006	2	PLUG
17	TLN-1006	1	CATALYST FITTING
18	F-CS-04F-16	2	SOCKET HEAD CAP SCREW
19	F-BHCS-832-04	1	BUTTON HEAD CAP SCREW
20	LWG-6527	1	SPRING PLUNGER
21	F-BHCS-1032-08	2	BUTTON HEAD CAP SCREW
22	TLN-XXX	1	SPRAY TIP
23	TLN-40402-CP-INT	1	CATALYST TIP
* 24	O-E-013	3	O-RING
* 25	O-E-012	2	O-RING
26	TLN-2016	1	ACTUATING ROD
27	TLN-2043	2	CERAMIC BALL
28	TLN-2044	1	SPRING
29	TLN-2023-01	1	CHECK VALVE
30	F-QP-03-12	1	QUICK RELEASE PIN
31	TLN-2001-01	1	GUN HEAD ASSEMBLY
32	TLN-2003-01	1	HANDLE
33	F-BHCS-832-12	2	BUTTON HEAD CAP SCREW
34	PF-AP-02	1	PIPE PLUG
35	PF-AP-04	1	ALLEN PLUG
36	TLN-2048	1	SEAT INSERT
37	7701-6-3	1	10-32 BARBED FITTING
* 38	O-E-011	1	O-RING
39	TLN-2028-01	1	MATERIAL CARTRIDGE
40	TLN-2021	2	ROD SEAL HOUSING
* 41	TLN-2029	2	ROD SEAL ASSEMBLY
* 42	O-E-3-903	1	O-RING
43	TRU-1021	1	SWIVEL ELBOW FITTING
44	TLN-2033L-S	1	ERGONOMIC INSERT, LEFT
45	TLN-2033R-S	1	ERGONOMIC INSERT, RIGHT
* 46	O-S-015	1	O-RING
* 47	O-S-013	2	O-RING
* 48	O-S-006	1	O-RING
* 49	O-S-011	1	O-RING
* 50	O-S-3-903	1	O-RING
* 51	O-A-007	1	O-RING
* 52	O-S-012	1	O-RING

Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
53	MS-2052-1	3	POLY TUBE
54	TLN-2046	1	AIR CONTROL VALVE
55	7701-2-1	1	HOSE CLAMP - POLY TUBE
56	TLN-2047	1	BALL SPRING
57	TLN-2049	1	NEEDLE SPRING
58	7701-6-14	1	STRAIGHT POLY FITTING
59	00383	1	MALE CONNECTOR
* 60	7304-3-1	1	NYLON SEAL

REPAIR KIT

* TLN-X-SK (ASTERISKS DENOTE PARTS IN KIT)

AVAILABLE SEPARATELY

TLN-X-CTR-C CATALYST CARTRIDGE ASSEMBLY
INCLUDES ITEMS 3,4,36,40,41,46,47,48,49,51,57TLN-X-CTR-M MATERIAL CARTRIDGE ASSEMBLY
INCLUDES ITEMS 6,24,26,38,39,40,41

MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX GELCOAT GUN - PREMIUM SPRAY TIP

TLN-XG-300-INT

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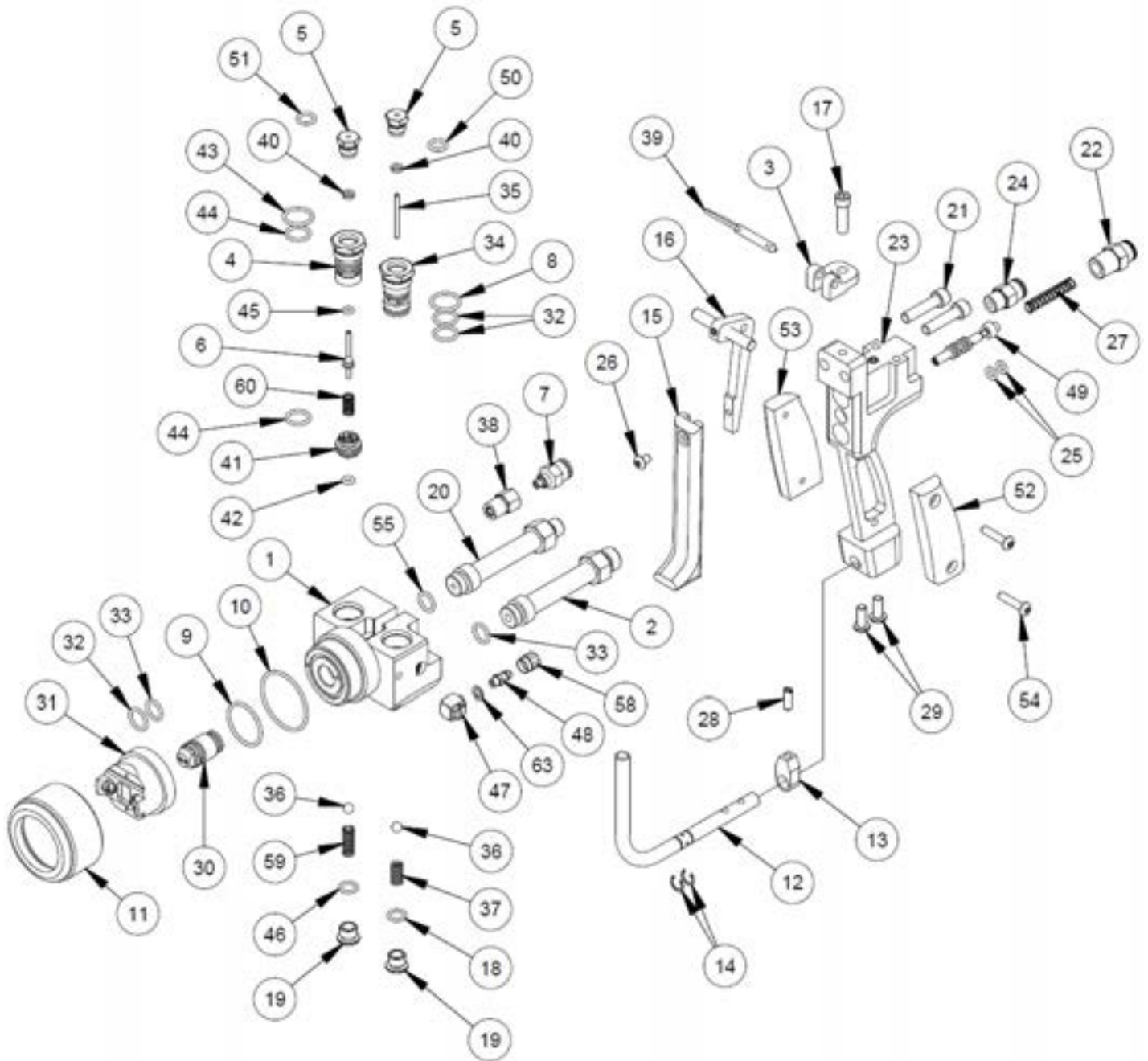
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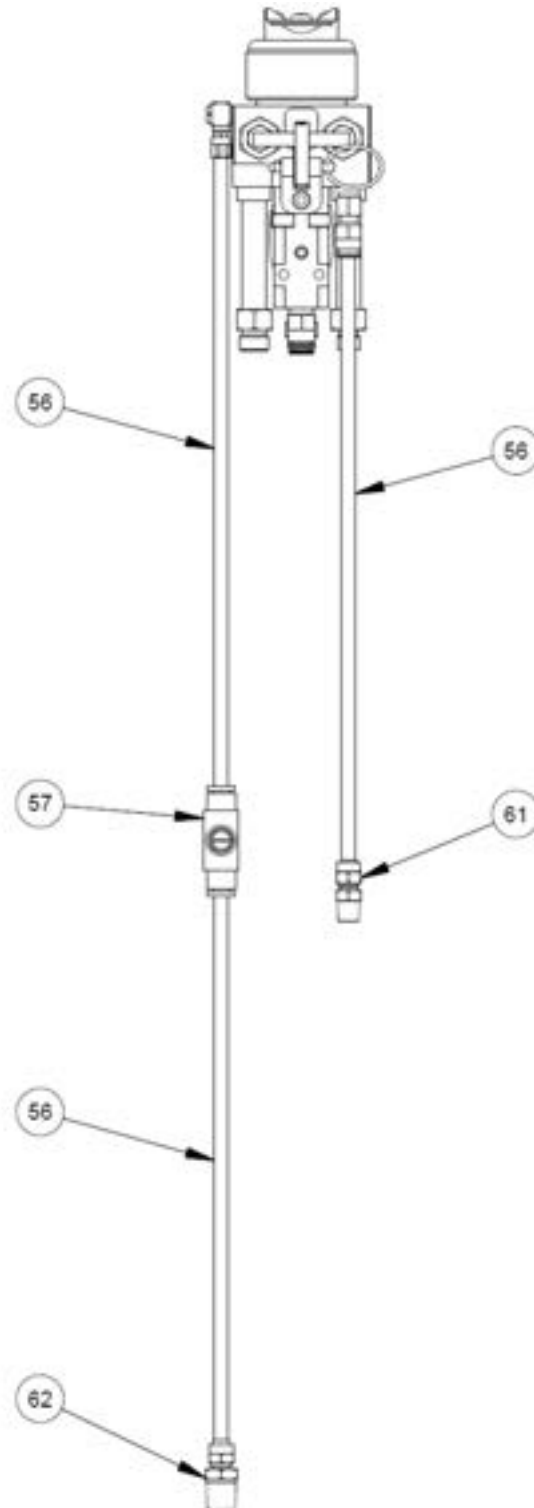
TALON EXTERNAL MIX GELCOAT GUN W/SIGNAL - PREMIUM SPRAY TIP

TLN-XG-300S

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MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX GELCOAT GUN W/SIGNAL - PREMIUM SPRAY TIP

TLN-XG-300S

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Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
1	TLN-2001-01	1	GUN HEAD ASSEMBLY
2	TLN-1005	1	RESIN FITTING
3	TLN-2008	1	TRIGGER MOUNT
4	TLN-2084	1	CATALYST CARTRIDGE
5	TLN-2021	2	ROD SEAL HOUSING
6	TLN-2082	1	CATALYST NEEDLE
7	06977	1	FITTING
* 8	O-E-015	1	O-RING
* 9	O-E-021	1	O-RING
* 10	O-E-027	1	O-RING
11	TLN-2013	1	RETAINING RING
12	TLN-2009	1	TRIGGER GUARD
13	TLN-1028	1	TRIGGER STOP
14	TLN-1031	2	RETAINING RING
15	TLN-2025	1	TRIGGER
16	TLN-2020-01	1	TRIGGER ARM
17	F-CS-1224-12	1	CAP SCREW
* 18	O-E-3-903	1	O-RING
19	TLN-2006	2	PLUG
20	TLN-2014	1	CATALYST FITTING
21	F-CS-04F-16	2	SOCKET HEAD CAP SCREW
22	TLN-2035	1	AIR INLET FITTING
23	TLN-2003-01	1	HANDLE
24	07223	1	MALE CONNECTOR
* 25	O-E-008	2	O-RING
26	F-BHCS-832-04	1	BUTTON HEAD CAP SCREW
27	04070-1	1	COMPRESSION SPRING
28	LWG-6527	1	SPRING PLUNGER
29	F-BHCS-1032-08	2	BUTTON HEAD CAP SCREW
30	TLN-XXX	1	SPRAY TIP
31	TLN-40402-CP	1	CATALYST TIP
* 32	O-E-013	3	O-RING
* 33	O-E-012	2	O-RING
34	TLN-2028-01	1	MATERIAL CARTRIDGE
35	TLN-2016	1	ACTUATING ROD
36	TLN-2043	2	CERAMIC BALL
37	TLN-2044	1	SPRING
38	TLN-2023-01	1	CHECK VALVE
39	F-QP-03-12	1	QUICK RELEASE PIN
* 40	TLN-2029	2	ROD SEAL ASSEMBLY
41	TLN-2048	1	SEAT INSERT
* 42	O-A-007	1	O-RING
* 43	O-S-015	1	O-RING
* 44	O-S-013	2	O-RING
* 45	O-S-006	1	O-RING
* 46	O-S-3-903	1	O-RING
47	TRU-1021	1	SWIVEL ELBOW FITTING
48	7701-6-3	1	10-32 BARBED FITTING
49	TLN-2015-01-SIG	1	AIR VALVE - SIGNAL
* 50	O-E-011	1	O-RING
* 51	O-S-011	1	O-RING
52	TLN-2033L-S	1	ERGONOMIC INSERT, LEFT
53	TLN-2033R-S	1	ERGONOMIC INSERT, RIGHT
54	F-BHCS-832-12	2	BUTTON HEAD CAP SCREW
* 55	O-S-012	1	O-RING

Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION
56	MS-2052-1	3	POLY TUBE
57	TLN-2046	1	AIR CONTROL VALVE
58	7701-2-1	1	HOSE CLAMP - POLY TUBE
59	TLN-2047	1	BALL SPRING
60	TLN-2049	1	NEEDLE SPRING
61	7701-6-14	1	STRAIGHT POLY FITTING
62	00383	1	MALE CONNECTOR
* 63	7304-3-1	1	NYLON SEAL

REPAIR KIT

* TLN-X-SK (ASTERISKS DENOTE PARTS IN KIT)

AVAILABLE SEPARATELY

TLN-X-CTR-C CATALYST CARTRIDGE ASSEMBLY
INCLUDES ITEMS 4,5,6,40,41,42,43,44,45,51,60TLN-X-CTR-M MATERIAL CARTRIDGE ASSEMBLY
INCLUDES ITEMS 5,8,32,34,35,40,50

MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX GELCOAT GUN W/SIGNAL - PREMIUM SPRAY TIP

TLN-XG-300S

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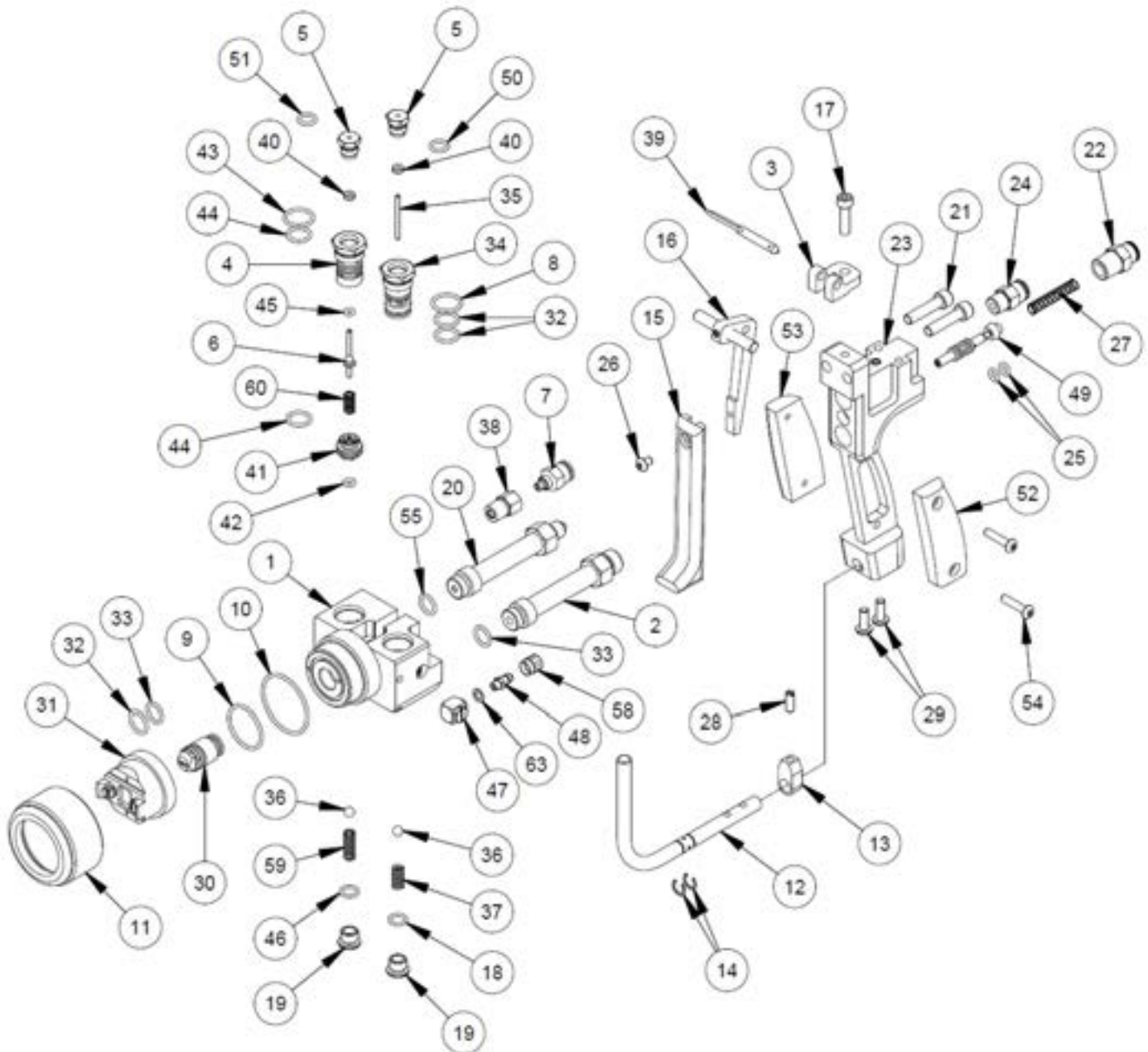
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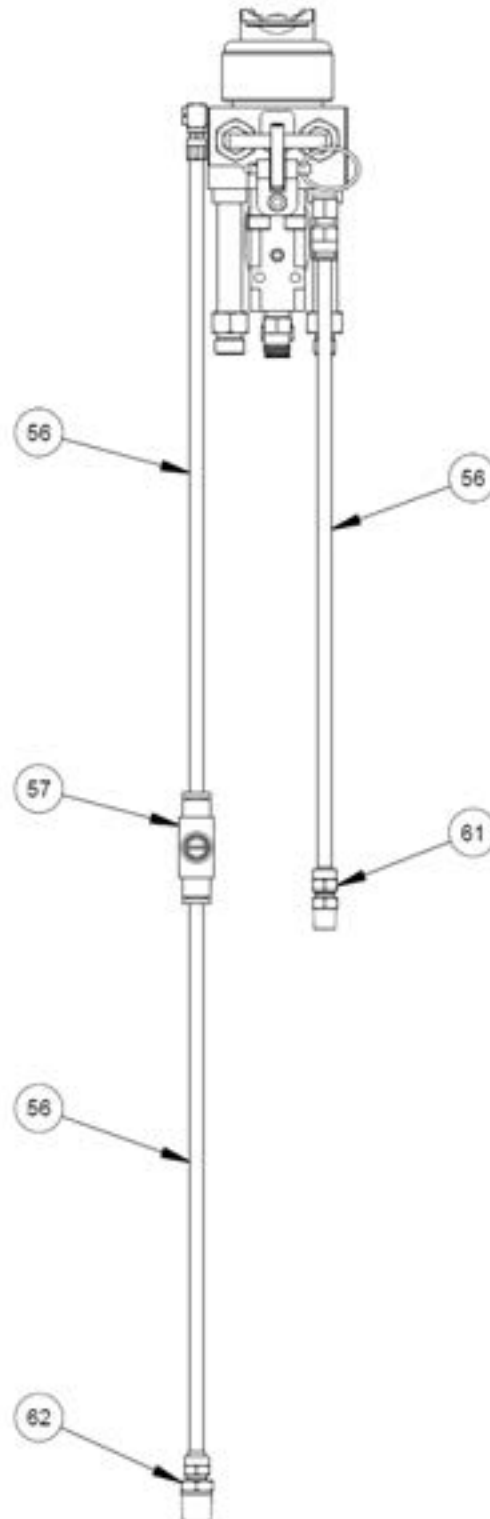
TALON EXTERNAL MIX GELCOAT GUN W/SIGNAL - PREMIUM SPRAY TIP

TLN-XG-300S-INT

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MAGNUM VENUS PLASTECH

TALON EXTERNAL MIX GELCOAT GUN W/SIGNAL - PREMIUM SPRAY TIP

TLN-XG-3005-INT

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Parts List				Parts List			
ITEM	PART NUMBER	QTY	DESCRIPTION	ITEM	PART NUMBER	QTY	DESCRIPTION
1	TLN-2001-01	1	GUN HEAD ASSEMBLY	56	MS-2052-1	3	POLY TUBE
2	TLN-1005	1	RESIN FITTING	57	TLN-2046	1	AIR CONTROL VALVE
3	TLN-2008	1	TRIGGER MOUNT	58	7701-2-1	1	HOSE CLAMP - POLY TUBE
4	TLN-2084	1	CATALYST CARTRIDGE	59	TLN-2047	1	BALL SPRING
5	TLN-2021	2	ROD SEAL HOUSING	60	TLN-2049	1	NEEDLE SPRING
6	TLN-2082	1	CATALYST NEEDLE	61	7701-6-14	1	STRAIGHT POLY FITTING
7	06977	1	FITTING	62	00383	1	MALE CONNECTOR
* 8	O-E-015	1	O-RING	* 63	7304-3-1	1	NYLON SEAL
* 9	O-E-021	1	O-RING				
* 10	O-E-027	1	O-RING				
11	TLN-2013	1	RETAINING RING				
12	TLN-2009	1	TRIGGER GUARD				
13	TLN-1028	1	TRIGGER STOP				
14	TLN-1031	2	RETAINING RING				
15	TLN-2025	1	TRIGGER				
16	TLN-2020-01	1	TRIGGER ARM				
17	F-CS-1224-12	1	CAP SCREW				
* 18	O-E-3-903	1	O-RING				
19	TLN-2006	2	PLUG				
20	TLN-1006	1	CATALYST FITTING				
21	F-CS-04F-16	2	SOCKET HEAD CAP SCREW				
22	TLN-2035	1	AIR INLET FITTING				
23	TLN-2003-01	1	HANDLE				
24	07223	1	MALE CONNECTOR				
* 25	O-E-008	2	O-RING				
26	F-BHCS-832-04	1	BUTTON HEAD CAP SCREW				
27	04070-1	1	COMPRESSION SPRING				
28	ILWG-6527	1	SPRING PLUNGER				
29	F-BHCS-1032-08	2	BUTTON HEAD CAP SCREW				
30	TLN-XXX	1	SPRAY TIP				
31	TLN-40402-CP-INT	1	CATALYST TIP				
* 32	O-E-013	3	O-RING				
* 33	O-E-012	2	O-RING				
34	TLN-2028-01	1	MATERIAL CARTRIDGE				
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36	TLN-2043	2	CERAMIC BALL				
37	TLN-2044	1	SPRING				
38	TLN-2023-01	1	CHECK VALVE				
39	F-QP-03-12	1	QUICK RELEASE PIN				
* 40	TLN-2029	2	ROD SEAL ASSEMBLY				
41	TLN-2048	1	SEAT INSERT				
* 42	O-A-007	1	O-RING				
* 43	O-S-015	1	O-RING				
* 44	O-S-013	2	O-RING				
* 45	O-S-006	1	O-RING				
* 46	O-S-3-903	1	O-RING				
47	TRU-1021	1	SWIVEL ELBOW FITTING				
48	7701-6-3	1	10-32 BARBED FITTING				
49	TLN-2015-01-SIG	1	AIR VALVE - SIGNAL				
* 50	O-E-011	1	O-RING				
* 51	O-S-011	1	O-RING				
52	TLN-2033L-S	1	ERGONOMIC INSERT, LEFT				
53	TLN-2033R-S	1	ERGONOMIC INSERT, RIGHT				
54	F-BHCS-832-12	2	BUTTON HEAD CAP SCREW				
* 55	O-S-012	1	O-RING				

REPAIR KIT

* TLN-X-SK (ASTERISKS DENOTE PARTS IN KIT)

AVAILABLE SEPARATELY

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INCLUDES ITEMS 5,8,32,34,35,40,50**MAGNUM VENUS PLASTECH**

TALON EXTERNAL MIX GELCOAT GUN W/SIGNAL - PREMIUM SPRAY TIP

TLN-XG-300S-INT

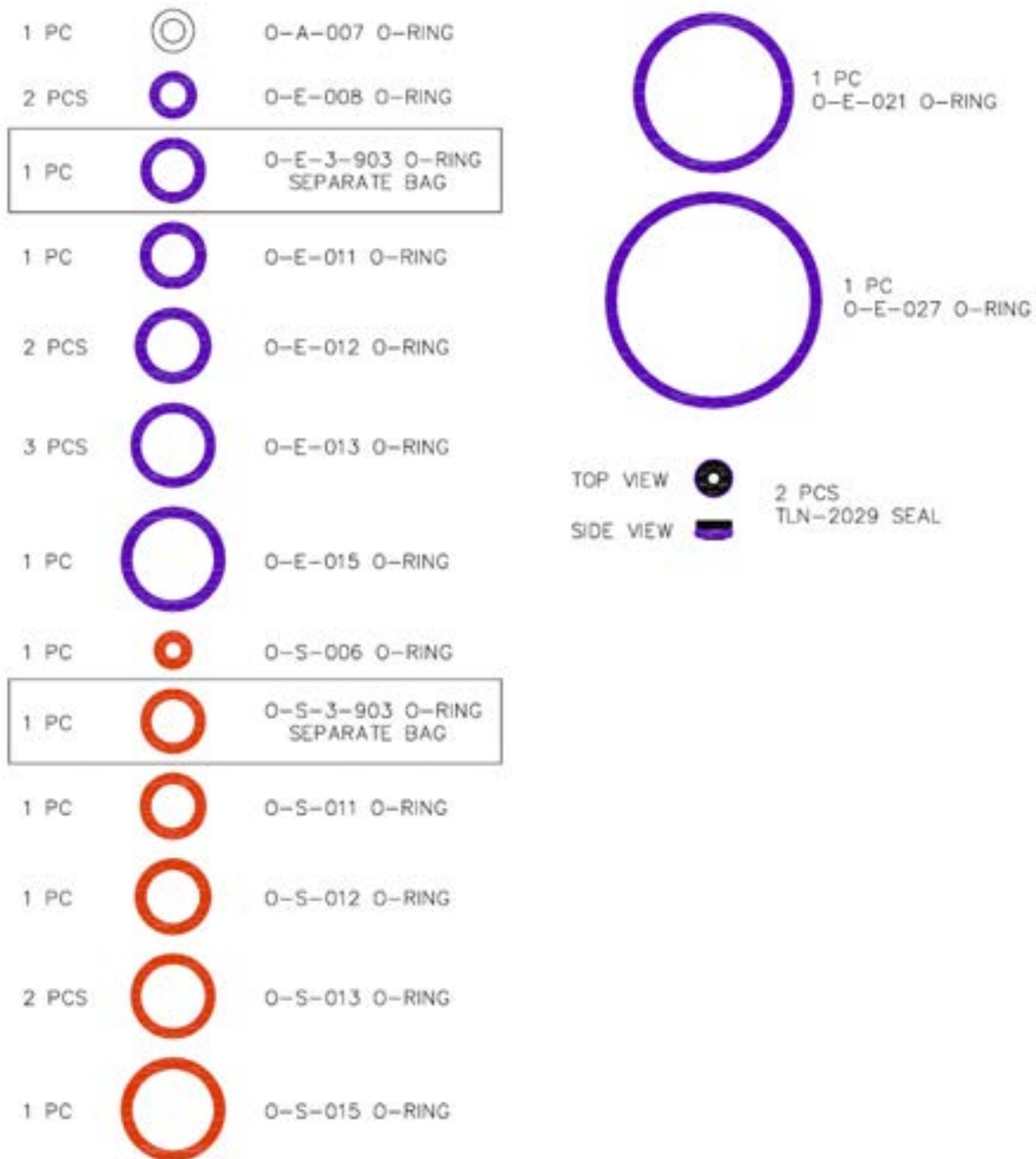
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TLN-X-SK SEAL KIT – TALON EXTERNAL MIX GUNS





Revision Information:

Revision:**Description:****Rev. 06/2013**

Manual was created

Rev. 10/2013

Remove reference to Plastech. Updated the drawings and added the Seal Kit (TLN-X-SK) drawing. Updated to remove chopper nozzle spacer, optional grips. Added the information on the Cartridge Assemblies. Added Chopper Options section





MAGNUM VENUS PLASTECH

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1862 Ives Ave. * Kent, WA 98032 * Tel 253-854-2660 * Fax 253-854-1666

www.mvpind.com

Assemblies Covered in this Manual:

- | | |
|--|--|
| <input type="checkbox"/> TLN-XC-100 | TALON EXTERNAL MIX CHOP GUN ASSEMBLY |
| <input type="checkbox"/> TLN-XC-100-INT | TALON EXTERNAL MIX CHOP GUN ASSEMBLY - INTERNATIONAL |
| <input type="checkbox"/> TLN-XC-100S | TALON EXTERNAL MIX CHOP GUN ASSEMBLY - WITH SIGNAL |
| <input type="checkbox"/> TLN-XC-100S-INT | TALON EXTERNAL MIX CHOP GUN ASSY - SIGNAL - INTERN. |
| <input type="checkbox"/> TLN-XG-300 | TALON EXTERNAL MIX GEL GUN ASSEMBLY |
| <input type="checkbox"/> TLN-XG-300-INT | TALON EXTERNAL MIX GEL GUN ASSEMBLY - INTERNATIONAL |
| <input type="checkbox"/> TLN-XG-300S | TALON EXTERNAL MIX GEL GUN ASSEMBLY - WITH SIGNAL |
| <input type="checkbox"/> TLN-XG-300S-INT | TALON EXTERNAL MIX GEL GUN ASSY - SIGNAL - INTERN. |