

LineLazer IV 130HS Airless Line Striper

Traceur de ligne airless LineLazer IV 130HS

Para las señalizadoras LineLazer IV 130HS

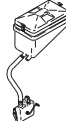
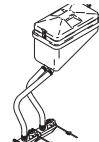
Kit de marcação de baias Airless

(de alta pressão) LineLazer IV 130HS

313775E
EN FR ES PT

- *For the application of line striping materials -*
- *Pour tracer des lignes à la peinture -*
- *Para la aplicación de materiales trazalíneas -*
- *Para aplicação de materiais de marcação de baias -*

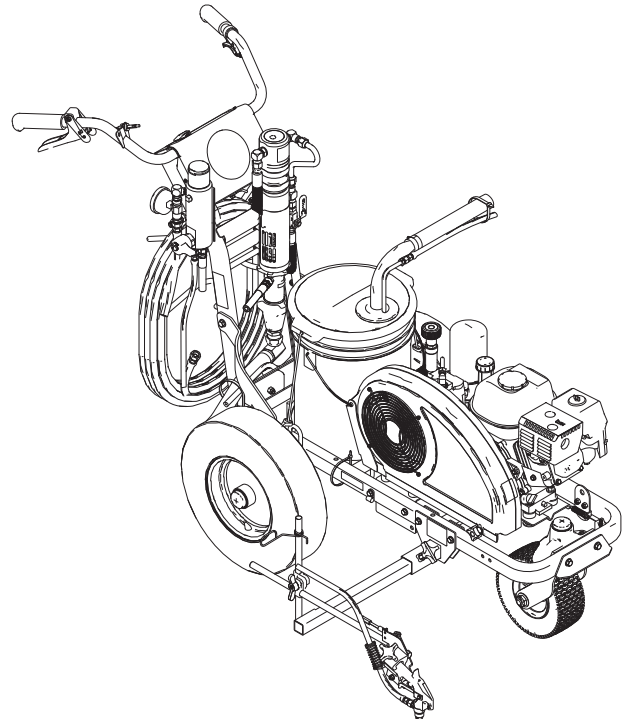
3300 psi (22.8 MPa, 228 bar) Maximum Working Pressure
Pression de service maximum 3300 psi (22,8 MPa, 228 bars)
Presión máxima de trabajo de 3300 psi (22,8 MPa, 228 bar)
Pressão de trabalho máxima de 3300 psi (22,8 MPa, 228 bar)

						
257780	✓			✓		
287025		✓	✓			



Important Safety Instructions

Read all warnings and instructions in this manual. Save these instructions.
Lire tous les avertissements et les instructions de ce manuel. Conservez ces instructions
Lea todas las advertencias e instrucciones en este manual. Guarde estas instrucciones
Leia todos os avisos e instruções deste manual. Guarde estas instruções.



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Warnings

The following are general warnings related to the safe setup, use, grounding, maintenance and repair of this equipment. In the text of this manual, the exclamation point symbol alerts you to a warning and the hazard symbol refers to specific risks. Refer back to these General Warnings pages. Additional procedure-specific warnings will be included where applicable.

	Warnings
	FIRE AND EXPLOSION HAZARD Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion: • Use equipment only in well ventilated area. • Do not fill fuel tank while engine is running or hot; shut off engine and let it cool. Fuel is flammable and can ignite or explode if spilled on hot surface. • Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc). • Keep work area free of debris, including solvent, rags and gasoline. • Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present. • Ground equipment and conductive objects in work area. See Grounding instructions. • Use only grounded hoses. • Hold gun firmly to side of grounded pail when triggering into pail. • If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem. • Keep a fire extinguisher in work area.
	CARBON MONOXIDE HAZARD Exhaust contains poisonous carbon monoxide, which is colorless and odorless. Breathing carbon monoxide can cause death. Do not operate in an enclosed area.
	INJECTION HAZARD High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment. • Do not point gun at anyone or at any part of the body. • Do not put your hand over the spray tip. • Do not stop or deflect leaks with your hand, body, glove, or rag. • Do not spray without tip guard and trigger guard installed. • Engage trigger lock when not spraying. • Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.
	PRESSURIZED EQUIPMENT HAZARD Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury. • Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment. • Tighten all fluid connections before operating the equipment. • Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.
	PRESSURIZED ALUMINUM PARTS HAZARD Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.

	EQUIPMENT MISUSE HAZARD Misuse can cause death or serious injury. • Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals. • Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. • Check equipment daily. Repair or replace worn or damaged parts immediately. • Do not alter or modify equipment. • Use equipment only for its intended purpose. Call your Graco distributor for information. • Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. • Do not kink or overbend hoses or use hoses to pull equipment. • Keep children and animals away from work area. • Comply with all applicable safety regulations.
	BURN HAZARD Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.
	MOVING PARTS HAZARD Moving parts can pinch or amputate fingers and other body parts. • Keep clear of moving parts. • Do not operate equipment with protective guards or covers removed. • Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure in this manual. Disconnect power or air supply.
	PERSONAL PROTECTIVE EQUIPMENT You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to: • Protective eyewear • Clothing and respirator as recommended by the fluid and solvent manufacturer • Gloves • Hearing protection
	CALIFORNIA PROPOSITION 65 The engine exhaust from this product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

Mises en garde

Les mises en garde suivantes sont des mises en garde de sécurité générales relatives à la configuration, utilisation, maintenance et réparation de ce matériel. Dans ce manuel, le point d'exclamation est une mise en garde et le symbole de danger fait référence à des risques spécifiques. Voir les pages Mises en garde générales. D'autres mises en garde spécifiques aux procédures figurent aux endroits concernés.

	Mises en garde
	DANGERS D'INCENDIE ET D'EXPLOSION Les vapeurs inflammables de solvant et de peinture sur le lieu de travail peuvent prendre feu ou exploser. Pour prévenir un incendie ou une explosion : • N'utiliser l'équipement que dans des locaux bien ventilés. • Ne pas faire le plein de carburant pendant que le moteur tourne ou qu'il est chaud; arrêter le moteur et le laisser refroidir. Le carburant est un produit inflammable qui peut prendre feu ou exploser au contact d'une surface brûlante. • Supprimer toutes les source de feu, telles que les veilleuses, cigarettes, lampes électriques portatives et bâches plastique (risque de décharge d'électricité statique). • Veiller à débarrasser la zone de travail de tout résidu, comme les solvants, les chiffons et l'essence. • Ne pas brancher ni débrancher de cordons d'alimentation électrique ni actionner de commutateur marche-arrêt ou de lumière en présence de vapeurs inflammables. • Raccorder à la terre le matériel et les objets conducteurs du site. Voir les instructions de Mise à la terre. • N'utiliser que des flexibles mis à la terre. • Tenir le pistolet fermement contre la paroi d'un seau mis à la terre lorsqu'on pulvérise dans le seau. • Si l'on remarque la moindre étincelle d'électricité statique ou si l'on ressent une décharge électrique, arrêter le travail immédiatement. Ne pas utiliser le matériel tant que le problème n'a pas été identifié et résolu. • Prévoir un extincteur dans la zone de travail.
	DANGER DU MONOXYDE DE CARBONE Les gaz d'échappement contiennent du monoxyde de carbone qui est un gaz dangereux incolore et inodore. L'inhalation de monoxyde de carbone est mortelle. Ne pas travailler dans un endroit fermé.
 	RISQUE D'INJECTION Le produit s'échappant à haute pression du pistolet, d'une fuite sur le flexible ou d'un composant défectueux risque de transpercer la peau. La blessure peut avoir l'aspect d'une simple coupure, mais il s'agit en fait d'une blessure sérieuse pouvant entraîner une amputation. Consulter immédiatement un médecin en vue d'une intervention chirurgicale. • Ne pas diriger le pistolet sur quelqu'un ou une partie quelconque du corps. • Ne pas mettre la main devant la buse de projection. • Ne jamais colmater ou dévier les fuites avec la main, le corps, un gant ou un chiffon. • Ne pas pulvériser sans garde-buse ni sous-garde. • Verrouiller la gâchette à chaque arrêt de la pulvérisation. • Suivre la Procédure de décompression de ce manuel à chaque interruption de la pulvérisation et avant le nettoyage, la vérification ou l'entretien du matériel.
	DANGER ÉQUIPEMENTS SOUS PRESSION Tout jet de produit provenant du pistolet/de la vanne de distribution, de fuites ou de composants défectueux risque d'atteindre les yeux ou la peau et peut causer des blessures graves. • Suivre la Procédure de décompression de ce manuel à chaque interruption de la pulvérisation et avant le nettoyage, la vérification ou l'entretien du matériel. • Serrer tous les raccords produit avant d'utiliser l'équipement. • Vérifier les flexibles, tuyaux et raccords quotidiennement. Remplacer immédiatement tout élément usé ou endommagé.
	RISQUES DUS AUX PIÈCES EN ALUMINIUM SOUS PRESSION N'utiliser ni 1,1,1-trichloréthane, ni chlorure de méthylène, ni solvants à base d'hydrocarbures halogénés, ni produits renfermant de tels solvants dans un appareil sous pression en aluminium. L'utilisation de ces produit peut déclencher une violente réaction chimique et une casse du matériel et provoquer ainsi de graves dommages corporels et matériels pouvant entraîner la mort.

	DANGER EN CAS DE MAUVAISE UTILISATION DE L'ÉQUIPEMENT Toute mauvaise utilisation du matériel peut provoquer des blessures graves, voire mortelles. • Ne pas dépasser la pression ou température de service maximum spécifiée de l'élément le plus faible du système. Voir les Caractéristiques techniques de tous les manuels de l'appareil. • Utiliser des produits et solvants compatibles avec les pièces en contact avec le produit. Voir les Caractéristiques techniques de tous les manuels d'équipement. Lire les mises en garde du fabricant de produit et de solvant. • Vérifier l'équipement tous les jours. Réparer ou remplacer immédiatement les pièces usagées ou endommagées. • Ne pas modifier cet équipement. • N'utiliser ce matériel que pour l'usage auquel il est destiné. Pour plus de renseignements appelez votre distributeur Graco. • Écarter les flexibles et câbles électriques des zones de circulation, des bords coupants, des pièces en mouvement et des surfaces chaudes. • Ne pas plier ni trop cintrer les flexibles ni les utiliser pour tirer l'appareil. • Tenir les enfants et animaux à l'écart du site de travail. • Se conformer à toutes les règles de sécurité applicables.
	RISQUES DE BRÛLURE Les surfaces de l'appareil et le produit chauffé peuvent devenir brûlants quand l'appareil fonctionne. Pour éviter toute brûlure grave, ne toucher ni le produit ni l'appareil quand ils sont chauds. Attendre qu'ils soient complètement refroidis.
	DANGER REPRÉSENTÉ PAR LES PIÈCES EN MOUVEMENT Les pièces en mouvement peuvent pincer ou sectionner les doigts ou toute autre partie du corps. • Se tenir à l'écart des pièces mobiles. • Ne pas faire fonctionner le matériel si les gardes ou protections ont été enlevées. • Un appareil sous pression peut démarrer de façon intempestive. Avant de contrôler, déplacer ou intervenir sur l'appareil, observer la Procédure de décompression figurant dans ce manuel. Débrancher l'alimentation électrique ou pneumatique.
	ÉQUIPEMENT DE PROTECTION INDIVIDUEL Il est impératif que le personnel porte un équipement de protection approprié quand il travaille ou se trouve dans la zone de fonctionnement de l'installation pour éviter des blessures graves telles que des lésions oculaires, inhalation de fumées toxiques, brûlures et perte de l'ouïe notamment. Cet équipement comprend ce qui suit, la liste n'étant pas exhaustive: • Lunettes de sécurité • Le port de vêtements de sécurité et d'un respirateur est conseillé par le fabricant de produit et de solvant • Gants • Casque anti-bruit
	PROPOSITION 65 DE CALIFORNIE Les gaz d'échappement de ce produit contiennent des produits chimiques connus dans l'État de la Californie comme causes de cancer, malformations congénitales ou autres anomalies de reproduction. Ce produit contient un produit chimique connu dans l'État de la Californie comme provoquant le cancer, des malformations congénitales ou d'autres anomalies de reproduction. Lavez-vous les mains après manipulation.

Advertencias

A continuación se ofrecen advertencias en general relacionadas con la seguridad de la puesta en marcha, utilización, conexión a tierra, mantenimiento y reparación de este equipo. En el texto de este manual, el símbolo acompañado de una exclamación le indica que se trata de una advertencia y el símbolo de peligro se refiere a un riesgo específico. Consulte siempre que lo necesite estas páginas de Advertencias generales. Dónde sea pertinente se incluirán advertencias adicionales específicas a los procedimientos.

	Advertencias
	PELIGRO DE INCENDIOS Y EXPLOSIONES Los vapores inflamables, como los vapores de disolvente o de pintura, en la zona de trabajo pueden incendiarse o explotar. Para evitar un incendio o explosión: • Utilice el equipo únicamente en áreas bien ventiladas. • No llene el depósito de combustible mientras el motor esté en marcha o caliente; apague el motor y espere a que enfríe. El combustible es inflamable y puede incendiarse o explotar si se derrama sobre una superficie caliente. • Elimine toda fuente de ignición, tales como las luces piloto, los cigarrillos, las linternas eléctricas y las cubiertas de plástico (arcos estáticos potenciales). • Mantenga limpia la zona de trabajo, sin disolventes, trapos o gasolina. • No enchufe ni desenchufe cables de alimentación ni apague ni encienda las luces en el área de pulverización. • Conecte a tierra el equipo y los objetos conductores de la zona de trabajo. Vea las instrucciones de Conexión a tierra. • Utilice únicamente mangueras conectadas a tierra. • Sujete firmemente la pistola contra el lateral de una lata conectada a tierra mientras dispara la pistola hacia el interior de la misma. • Si se aprecia la formación de electricidad estática durante el uso de este equipo, deje de trabajar inmediatamente. No utilice el sistema hasta haber identificado y corregido el problema. • Guarde un extintor de incendios en la zona de trabajo.
	PELIGRO DE MONÓXIDO DE CARBONO Los gases de escape contienen monóxido de carbono, un veneno incoloro e inodoro. Respirar monóxido de carbono puede causar la muerte. No trabaje con este equipo en un recinto cerrado.
	PELIGRO DE INYECCIÓN El fluido a alta presión procedente de la pistola, fugas de la manguera o componentes rotos penetrarán en la piel. La inyección del líquido puede tener la apariencia de un simple corte, pero se trata de una herida grave que puede conducir a la amputación. Consiga inmediatamente tratamiento quirúrgico. • No apunte nunca la pistola hacia alguien o alguna parte del cuerpo. • No coloque la mano sobre la boquilla de pulverización. • No intente bloquear ni desviar posibles fugas con la mano, el cuerpo, los guantes o con un trapo. • No pulverice sin el portaboquillas y el seguro del gatillo. • Enganche el seguro del gatillo cuando no esté pulverizando. • Siga el Procedimiento de descompresión de este manual, cuando deje de pulverizar y antes de limpiar, revisar o reparar el equipo.
	PELIGROS DEL EQUIPO A PRESIÓN El fluido procedente de la pistola/válvula dispensadora, y las fugas de las mangueras o de piezas rotas pueden salpicar fluido en los ojos o en la piel y causar lesiones graves. • Siga el Procedimiento de descompresión de este manual, cuando deje de pulverizar y antes de limpiar, revisar o reparar el equipo. • Apriete todas las conexiones antes de accionar el equipo. • Compruebe diariamente las mangueras, los tubos y los acoplamientos. Reemplace inmediatamente las piezas desgastadas o dañadas.
	PELIGRO DE PIEZAS DE ALUMINIO A PRESIÓN No utilice 1,1,1 tricloroetano, cloruro de metileno y otros disolventes de hidrocarburos halogenados o productos que contengan dichos disolventes con equipos de aluminio presurizados. Esas sustancias podrían provocar peligrosas reacciones químicas y ruptura del equipo, y causar la muerte, lesiones graves y daños materiales.

	PELIGROS DEBIDOS A LA UTILIZACIÓN INCORRECTA DEL EQUIPO El uso incorrecto puede causar la muerte o heridas graves. • No exceda la presión máxima de trabajo o la temperatura del componente con menor valor nominal del sistema. Consulte la sección Características técnicas de todos los manuales del equipo. • Utilice líquidos y disolventes compatibles con las piezas húmedas del equipo. Consulte las Características técnicas en todos los manuales que acompañan al equipo. Lea las recomendaciones de los fabricantes de los líquidos. • Revise el equipo a diario. Repare o cambie inmediatamente las piezas desgastadas o dañadas. • No altere ni modifique el equipo. • Utilice el equipo únicamente para el fin para el que ha sido destinado. Si desea información, póngase en contacto con su distribuidor Graco. • Desvíe las mangueras de zonas de tráfico intenso, de curvas pronunciadas, de piezas móviles y superficies calientes. • No retuerza ni doble las mangueras, ni las utilice para arrastrar el equipo. • Mantenga a los niños y a los animales lejos de la zona de trabajo. • Respete todas las normas relativas a la seguridad.
	PELIGRO DE QUEMADURAS Las superficies del equipo y del fluido calentado pueden calentarse mucho durante el funcionamiento. Para evitar quemaduras graves, no toque el fluido o el equipo caliente. Espere hasta que haya enfriado.
	PELIGRO DE PIEZAS EN MOVIMIENTO Las piezas en movimiento pueden dañarle o amputarle los dedos u otras partes del cuerpo. • Manténgase alejado de las piezas móviles. • No utilice el equipo sin las cubiertas de protección. • El equipo a presión puede ponerse en marcha inesperadamente. Antes de inspeccionar, mover, o revisar el equipo, siga el Procedimiento de descompresión de este manual. Desconecte la fuente de alimentación o el suministro de aire.
	EQUIPO DE PROTECCIÓN PERSONAL Debe utilizar equipo de protección adecuado cuando trabaje, revise o esté en la zona de funcionamiento del equipo, con el fin de protegerse contra la posibilidad de lesionarse gravemente, incluyendo lesiones oculares, la inhalación de vapores tóxicos, quemaduras o la pérdida auditiva. Este equipo incluye, pero no está limitado a: • Gafas de protección • Ropas protectoras y un respirador, tal como recomiendan los fabricantes del fluido y del disolvente • Guantes • Protección auditiva
	PROPOSICIÓN 65 DE CALIFORNIA El escape del motor de este producto contiene una sustancia química considerada por el Estado de California como causantes de cáncer, defectos en el nacimiento u otros daños reproductivos. Este producto contiene una sustancia química conocida para el Estado de California como causante de cáncer, defectos de nacimiento u otros daños reproductivos. Lávese las manos después de manipular el producto.

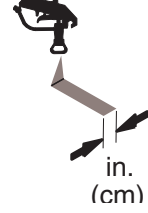
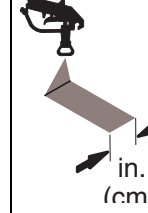
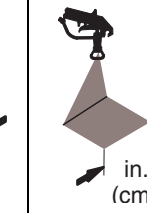
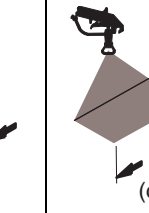
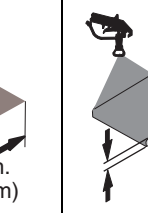
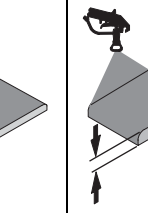
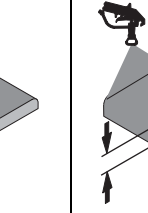
Advertências

Seguem-se advertências gerais relativamente à instalação, utilização, ligação à terra, manutenção e reparação deste equipamento com segurança. Ao longo do texto deste manual, o ponto de exclamação alerta-o para uma advertência e o símbolo de perigo refere-se a riscos específicos. Consulte estas páginas de advertências gerais. Serão incluídas mais advertências específicas relativamente a procedimentos, quando aplicáveis.

	Advertências
  	PERIGO DE INCÊNDIO E EXPLOÇÃO Os vapores inflamáveis na área de trabalho, tais como os provenientes de solventes e tintas, podem inflamar-se ou explodir. Para ajudar a evitar incêndios e explosões: • Utilize o equipamento apenas em áreas bem ventiladas. • Não abasteça o depósito de combustível com o motor em funcionamento ou quente; desligue o motor e deixe-o arrefecer; o combustível é inflamável e pode incendiar ou explodir se derramado numa superfície quente. • Elimine todas as fontes de ignição, como, por exemplo, luzes piloto, cigarros, luzes eléctricas portáteis e plásticos de protecção (potencial arco estático). • Mantenha a área de trabalho sem detritos, incluindo solvente, panos e gasolina. • Não ligue nem desligue cabos de alimentação ou interruptores, na presença de vapores inflamáveis. • Ligue o equipamento e os objectos condutores presentes na área de trabalho à terra. Consulte as instruções de Ligação à terra. • Utilize apenas tubos flexíveis com ligação à terra. • Segure a pistola firmemente apoiando-a na parede do balde em contacto com a terra, quando estiver a descarregar para dentro do mesmo. • Se ocorrerem faíscas de estática ou se sentir um choque eléctrico, interrompa a utilização imediatamente. Não utilize o equipamento até identificar e eliminar o problema. • Tenha sempre um extintor na área de trabalho.
	PERIGO DE MONÓXIDO DE CARBONO Os gases de escape contêm monóxido de carbono tóxico, que é incolor e inodoro. A inalação de monóxido de carbono pode provocar a morte. Não utilize o equipamento em locais sem ventilação.
 	PERIGO DE INJEÇÃO O produto a alta pressão proveniente da pistola, fugas nos tubos flexíveis ou componentes danificados poderá provocar lesões na pele. As lesões podem ter o aspecto de um simples corte, porém, constituem ferimentos graves capazes de conduzir à amputação. Obtenha tratamento médico imediato. • Não aponte a pistola a ninguém nem a nenhuma parte do corpo. • Não coloque as mãos sobre o bico. • Não tente interromper ou desviar fugas com a mão, o corpo, uma luva ou um pano. • Não comece a pintar sem que o protector do bico e o dispositivo de segurança do gatilho estejam instalados. • Engate o dispositivo de segurança do gatilho quando não estiver a pintar. • Siga o Procedimento de Descompressão neste manual, quando parar de pintar e antes de dar início aos procedimentos de limpeza, verificação ou manutenção.
	PERIGO DE EQUIPAMENTO PRESSURIZADO O produto proveniente da pistola/pistola de distribuição, fugas ou componentes danificados poderá entrar em contacto com os olhos ou com a pele e provocar ferimentos extremamente graves. • Siga o Procedimento de Descompressão neste manual, quando parar de pintar e antes de dar início aos procedimentos de limpeza, verificação ou manutenção. • Aperte todas as ligações relativas ao produto antes de utilizar o equipamento. • Verifique diariamente todos os tubos e uniões. Substitua imediatamente as peças gastas ou danificadas.
	PERIGO DE PEÇAS DE ALUMÍNIO PRESSURIZADO Não utilize 1,1,1-tricloroetano, cloreto de metileno, outros solventes de hidrocarboneto halogenado ou produtos que contenham os solventes referidos em equipamento de alumínio pressurizado. A utilização dos produtos referidos pode provocar reacções químicas violentas e avaria do equipamento e resultar em morte, lesões graves e danos materiais.

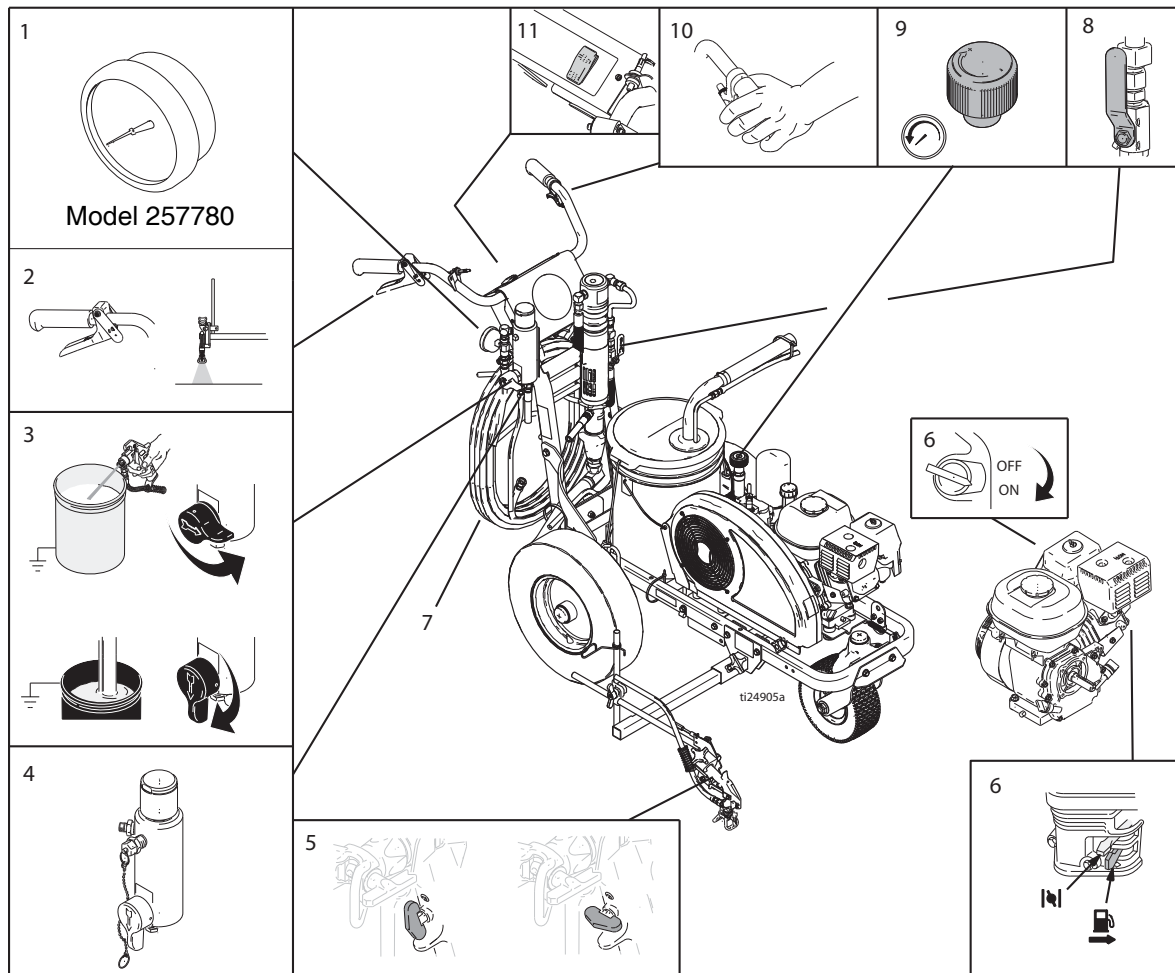
	PERIGOS DE MÁ UTILIZAÇÃO DO EQUIPAMENTO A utilização incorrecta do equipamento poderá resultar em ferimentos graves ou morte. • Não exceda a pressão de trabalho máxima nem o nível de temperatura do componente do sistema de valor mais baixo. Consulte a Ficha Técnica em todos os manuais do equipamento. • Utilize produtos e solventes compatíveis com as partes do equipamento em contacto com o produto. Consulte a Ficha Técnica em todos os manuais do equipamento. Leia as advertências do fabricante do produto e do solvente. • Verifique diariamente o equipamento. Repare ou substitua imediatamente as peças gastas ou danificadas. • Não altere nem modifique este equipamento. • Utilize o equipamento apenas para o fim a que se destina. Solicite informações ao seu distribuidor Graco. • Afaste os tubos flexíveis e cabos de áreas com movimento, pontas afiadas, peças em movimento e superfícies quentes. • Não dê nós nem dobre os tubos flexíveis, nem os utilize para puxar o equipamento. • Mantenha crianças e animais afastados da área de trabalho. • Cumpra todas as normas de segurança aplicáveis.
	PERIGO DE QUEIMADURAS As superfícies do equipamento e o produto sujeito ao calor podem ficar muito quentes durante o funcionamento. Para evitar queimaduras graves, não toque no equipamento nem no produto quando estes estiverem quentes. Aguarde que o equipamento/produto arrefeça completamente.
	PERIGO RESULTANTE DE PEÇAS EM MOVIMENTO As peças em movimento podem entalar ou amputar os dedos e outras partes do corpo. • Mantenha-se afastado das peças em movimento. • Não utilize o equipamento tendo removido as respectivas protecções e coberturas. • O equipamento sob pressão pode começar a funcionar sem aviso. Antes de efectuar procedimentos de verificação, deslocação ou assistência no equipamento, siga o Procedimento de Descompressão neste manual. Desligue a alimentação de energia e de ar.
	EQUIPAMENTO DE PROTECÇÃO PESSOAL Deve usar equipamento de protecção adequado quando utilizar e efectuar procedimentos de manutenção no equipamento, ou quando se encontrar na área de funcionamento do mesmo. O equipamento de protecção protege-o de lesões graves, tais como lesões oculares, inalação de vapores tóxicos, queimaduras e perda de audição. O equipamento protector inclui o seguinte, apesar de não se limitar a tal: • protecção para os olhos; • vestuário protector e máscara, como recomendado pelo fabricante do produto e solvente; • luvas; • protecção para os ouvidos.

Tip Selection / Sélection des buses / Selección de la boquilla / Selecção do bico

							
	in. (cm)	in. (cm)	in. (cm)	in. (cm)			
LL5213*	2 (5)				✓		
LL5215*	2 (5)					✓	
LL5217		4 (10)				✓	
LL5219		4 (10)					✓
LL5315		4 (10)			✓		
LL5317		4 (10)			✓		
LL5319		4 (10)				✓	
LL5321		4 (10)				✓	
LL5323		4 (10)				✓	
LL5325		4 (10)					✓
LL5327		4 (10)					✓
LL5329		4 (10)					✓
LL5331		4 (10)					✓
LL5333		4 (10)					✓
LL5335		4 (10)					✓
LL5355		4 (10)					✓
LL5417			6 (15)		✓		
LL5419			6 (15)		✓		
LL5421			6 (15)		✓		
LL5423			6 (15)			✓	
LL5425			6 (15)			✓	
LL5427			6 (15)			✓	
LL5429			6 (15)			✓	
LL5431			6 (15)				✓
LL5435			6 (15)				✓
LL5621				12 (30)	✓		
LL5623				12 (30)	✓		
LL5625				12 (30)	✓		
LL5627				12 (30)	✓		
LL5629				12 (30)	✓		
LL5631				12 (30)		✓	
LL5635				12 (30)		✓	
LL5639				12 (30)			✓

	English	Français	Español	Português
*	Use 100 mesh filter to reduce tip clogs	Utiliser un filtre de 100 mesh pour diminuer les bouchages de la buse	Utilice el filtro de malla 100 para reducir las obstrucciones de la boquilla	Utilize um filtro de rede 100 para reduzir as obstruções no bico

Component Identification / Identification des composants / Identificación de los componentes / Identificação dos Componentes

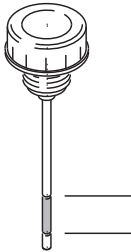
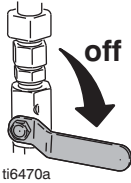
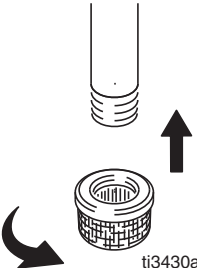


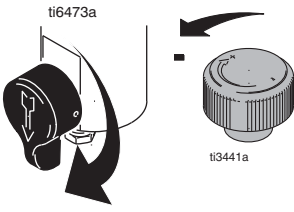
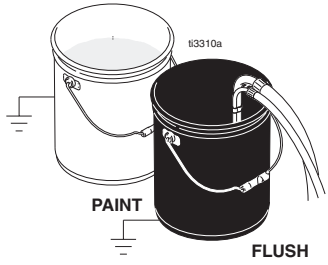
	English	Français	Español	Português
1	Fluid Pressure Gauge	Manomètre produit	Manómetro de fluido	Indicador de pressão do produto
2	Spray gun control	Commande du pistolet	Dispositivo de control de la pistola de pulverización	Regulador da pistola de pintura
3	Prime/Spray valve	Vanne d'amorçage/ de pulvérisation	Válvula de cebado/ pulverización	Válvula de segurança/ bico de injector
4	Filter	Filtre	Filtro	Filtro
5	Trigger lock	Loquet de sécurité	Seguro del gatillo	Fecho do gatilho
6	Engine/Controls	Moteur/commandes	Controles del motor	Controlos do motor
7	Drain and siphon tubes	Tuyaux de vidange et de succion	Tubos de drenaje y de sifón	Tubos de drenagem e de sucção
8	Pump valve	Vanne de la pompe	Válvula de la bomba	Válvula da bomba
9	Pressure control	Régulation de la pression	Dispositivo de control de la presión	Regulador da pressão
10	Turn control	Commande de direction	Gire el control	Controlo de viragem
11	Engine STOP	ARRÊT moteur	Parada del motor	PARAGEM do motor

Setup / Installation / Puesta en marcha / Instalação

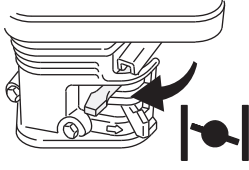
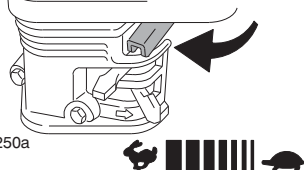
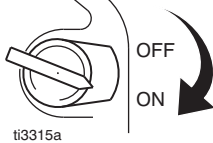


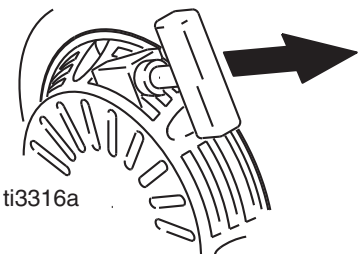
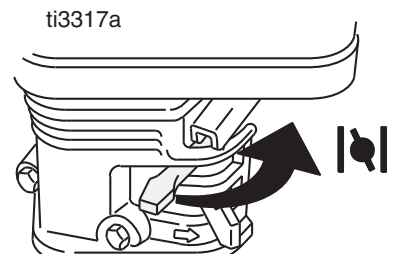
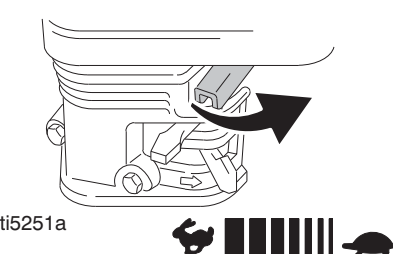
1 Ground sprayer with grounding clamp during Setup and Cleanup.	2 Each time you spray and store, fill throat packing nut with TSL to decrease packing wear.	3 Check engine oil level. Add SAE 10W-30 (summer) or 5W-20 (winter). See Honda manual.	4 Fill fuel tank.
1 Mettre le pulvérisateur à la terre à l'aide d'une pince pour les opérations d'installation et de nettoyage.	2 À chaque pulvérisation et entreposage, remplir l'écrou du presse-étoupe de liquide TSL pour réduire l'usure des garnitures.	3 Contrôler le niveau d'huile. Ajouter de l'huile SAE 10W-30 (été) ou 5W-20 (hiver). Voir le manuel Honda.	4 Remplir le réservoir de carburant.
1 Conecte a tierra el pulverizador con la abrazadera de conexión a tierra durante la Puesta en marcha y la Limpieza.	2 Cada vez que utilice el pulverizador y lo guarde, llene la tuerca prensaestopas del cuello con TSL para reducir el desgaste de las empaquetaduras.	3 Compruebe el nivel del aceite del motor. Añada SAE 10W-30 (verano) o 5W-20 (invierno), si fuera necesario. Vea el manual Honda.	4 Llene el depósito de combustible.
1 Faça a ligação terra do equipamento com o grampo de ligação à terra durante a Instalação e Limpeza.	2 Sempre que utilizar e guardar o equipamento, encha a porca de aperto dos empanques com TSL para minimizar o desgaste prematuro do empanque.	3 Verifique o nível de óleo do motor. Acrescente óleo do tipo SAE 10W-30 (Verão) ou 5W-20 (Inverno). Consulte o manual Honda.	4 Abasteça o depósito de combustível.

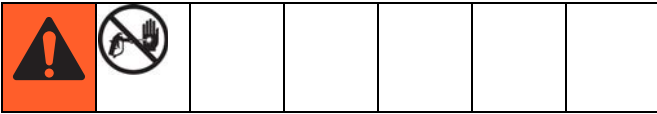
 ti3431a Safe Range (cold)	 ti6470a off	 ti3430a
5 Check hydraulic oil level. Add Graco hydraulic oil, Grade 46, 169236 (5 gallon/ 18.9 liter) or 207428 (1 gallon/3.8 liter). Hydraulic tank capacity is 1.25 gallon (4.73 liter).	6 Set pump valve OFF.	7 If removed, install strainer.
5 Contrôler le niveau d'huile hydraulique. Faire l'appoint d'huile hydraulique, grade 46, 169236 (5 gallons/ 18,9 litres) ou 207428 (1 gallon/3,8 litres). Capacité du réservoir hydraulique: 1,25 gallon (4,73 litres).	6 Mettre la vanne de pompe sur ARRÊT.	7 Remettre la crépine en place si elle a été enlevée.
5 Compruebe el nivel de aceite hidráulico. Añada aceite hidráulico Graco, grado 46, 169236 (18,9 litros/5 gal) o 207428 (1 gal/3,8 litros). La capacidad del depósito hidráulico es de 4,73 litros (1,25 galón).	6 Cierre la válvula de la bomba (OFF).	7 Si lo ha desmontado, instale el colador.
5 Verifique o nível do óleo hidráulico. Acrescente óleo hidráulico Graco, Grau 46, 169236 (18,9 litros/5 galões) ou 207428 (3,8 litros/1 galão). A capacidade do depósito hidráulico é de 4,73 litros (1,25 galões).	6 Coloque a válvula da bomba na posição de desactivada.	7 Se o filtro tiver sido retirado, coloque-o.

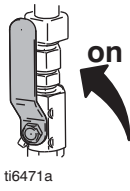
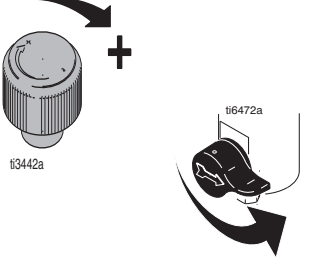
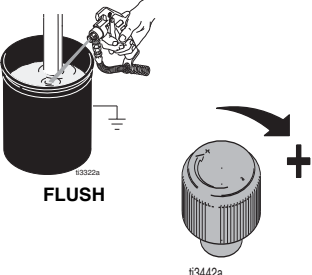
		
CAUTION Minimum hose size allowable for proper sprayer operation is 3/8 in. x 50 ft.	8 Turn prime valve down. Turn pressure control counterclockwise to lowest pressure.	9 Place siphon tube set in grounded metal pail partially filled with flushing fluid. Attach ground wire to pail and to true earth ground. Do 1. - 5. of Startup to flush out storage oil shipped in sprayer. Use water to flush water-base paint and mineral spirits to flush oil-base paint and storage oil.
ATTENTION Pour un bon fonctionnement du pulvérisateur, le flexible doit répondre aux cotes minimales suivantes: 3/8 in. x 50 ft.	8 Abaisser la vanne d'amorçage. Tourner la régulation de pression dans le sens anti-horaire jusqu'à la pression minimale.	9 Plonger le tuyau de succion dans un seau métallique mis à la terre et rempli en partie de fluide de rinçage. Fixer le fil de terre sur le seau et sur une véritable terre. Effectuer les opérations 1. - 5. de la rubrique Démarrage pour rincer le pulvérisateur de l'huile d'entreposage laissée à l'intérieur. Rincer à l'eau pour éliminer la peinture à base aqueuse et au white-spirit pour éliminer la peinture à l'huile et l'huile d'entreposage.
PRECAUCIÓN El tamaño mínimo de la manguera disponible para el correcto funcionamiento del pulverizador es 3/8 pulg. x 50 pies.	8 Gire hacia abajo la válvula de cebado. Gire el dispositivo de control de presión en sentido antihorario, hasta la presión más baja.	9 Coloque el tubo de aspiración en un recipiente metálico parcialmente lleno con líquido de lavado. Sujete el cable de conexión a tierra a una tierra verdadera. Lleve a cabo los pasos 1. - 5. de la Puesta en marcha para eliminar el aceite de almacenamiento enviado con el pulverizador. Utilice agua para eliminar las pinturas acuosas y alcoholes minerales para las pinturas a base de aceite y el aceite de almacenamiento.
CUIDADO O tamanho mínimo do tubo flexível para permitir um funcionamento adequado do equipamento é de aprox. 9,5 mm x 15,25 m (3/8 pol. x 50 pés).	8 Rode a válvula de segurança para baixo. Rode o regulador da pressão, no sentido contrário ao dos ponteiros do relógio para o valor mais baixo.	9 Coloque o tubo de sucção dentro de um balde metálico com protecção terra parcialmente cheio com líquido de lavagem. Ligue o fio terra ao balde e à terra. Efectue os passos 1. a 5. do procedimento de Colocação em serviço para eliminar o óleo utilizado para a armazenagem do equipamento. Utilize água para tintas à base de água e diluente para tintas à base de óleo e o óleo utilizado para a armazenagem.

Startup / Démarrage / Puesta en marcha / Colocação em serviço

			
1 Start engine.			
A Move fuel valve to open.	B Move choke to closed.	C Set throttle to fast.	D Set engine switch ON.
1 Démarrage du moteur.			
A Mettre la vanne de carburant sur ouvert.	B Mettre le volet du starter sur fermé.	C Régler l'accélérateur sur rapide.	D Mettre l'interrupteur du moteur sur ON.
1 Ponga en marcha el pulverizador.			
A Abra la válvula de combustible.	B Cierre el obturador.	C Coloque el acelerador en posición rápida.	D Coloque el interruptor del motor en posición ON.
1 Coloque o motor em funcionamento.			
A Abra a válvula do combustível.	B Feche o redutor de passagem.	C Regule a válvula de redução para rápida.	D Ligue o interruptor do motor (ON).

 ti3316a	 ti3317a	 ti5251a
e Pull starter cord.	F After engine starts, move choke to open.	G Set throttle to desired setting.
e Tirer sur le cordon du lanceur.	F Dès que le moteur tourne, mettre le volant du starter sur ouvert.	G Régler l'accélérateur en position désirée.
e Tire de la cuerda de arranque.	F Después de que el motor se ponga en marcha, abra el obturador.	G Coloque el acelerador en la posición deseada.
e Puxe o cabo do motor de arranque.	F Depois de o motor arrancar, abra o redutor de passagem.	G Regule a válvula de redução para o valor pretendido.

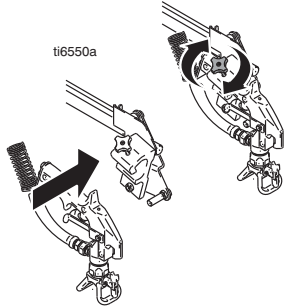
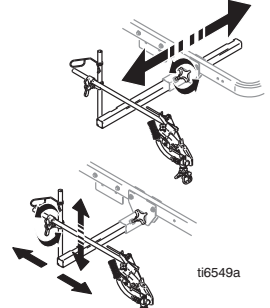
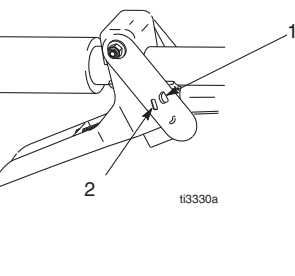


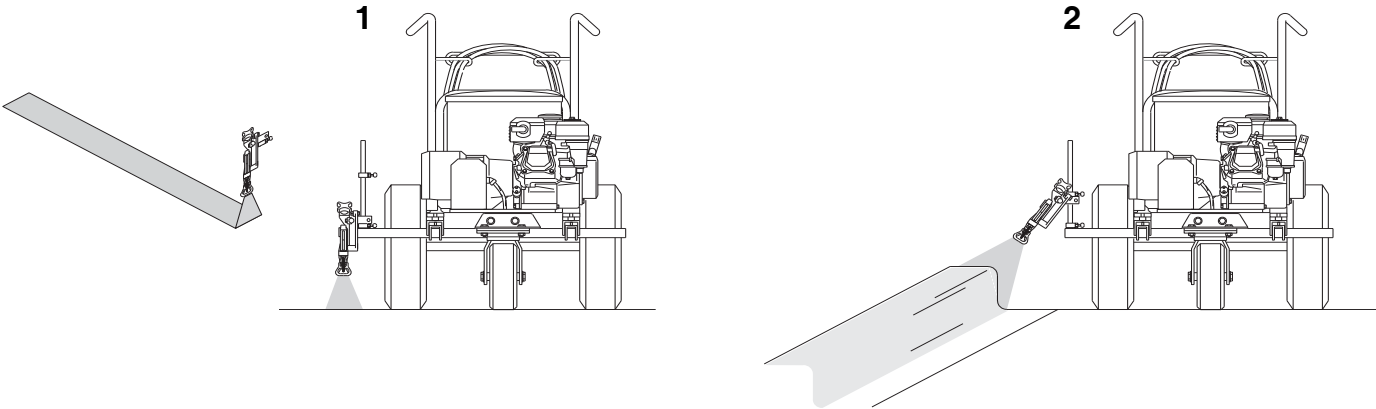
			
2 Set pump valve ON. - Hydraulic motor is now active -	3 Increase pressure enough to start hydraulic motor stroking. Allow fluid to circulate 15 seconds; turn pressure down, turn prime valve horizontal.	4 Disengage gun trigger safety.	5 Hold gun against grounded metal flushing pail. Trigger gun and increase fluid pressure slowly until pump runs smoothly.
2 Mettre la vanne de pompe sur ON. - Moteur hydraulique maintenant activé -	3 Augmenter suffisamment la pression pour lancer le moteur hydraulique. Faire circuler le fluide pendant 15 secondes; réduire la pression, mettre la vanne d'amorçage à l'horizontale.	4 Déverrouiller la gâchette du pistolet.	5 Appuyer le pistolet contre un seau de rinçage métallique mis à la terre. Actionner le pistolet et augmenter lentement la pression du produit jusqu'à ce que la pompe démarre en douceur.
2 Coloque la válvula de la bomba en posición ON. - El motor hidráulico está activado -	3 Aumente la presión lo suficiente como para poner en marcha el motor hidráulico. Deje que el fluido circule durante 15 segundos; baje la presión, gire la válvula de cebado hasta la posición horizontal.	4 Desenganche el seguro del gatillo de la pistola.	5 Mantenga la pistola contra una lata metálica de lavado conectada a tierra. Dispare la pistola y aumente lentamente la presión de fluido hasta que la bomba funcione suavemente.
2 Coloque a válvula da bomba na posição de activada (ON). - O motor hidráulico encontra-se agora activo -	3 Aumente suficientemente a pressão para activar o motor hidráulico e deixe o líquido circular no motor durante 15 segundos; reduza a pressão e rode a válvula de segurança para a posição horizontal.	4 Desengate o dispositivo de segurança do gatilho da pistola.	5 Encoste a pistola a um balde de lavagem metálico com ligação terra. Accione a pistola e aumente lentamente a pressão do líquido até que a bomba funcione suavemente.



Inspect fittings for leaks. Do not stop leaks with your hand or a rag! If leaks occur, turn sprayer OFF immediately. Do Pressure Relief on pg 23. Tighten leaky fittings. Repeat Startup , 1.-2. If no leaks, continue to trigger gun until system is thoroughly flushed. Proceed to 6.	6 Place siphon tube in paint pail. Trigger gun again into flushing fluid pail until paint appears. Assemble tip and guard.	1 Engage trigger safety. Use end of SwitchTip (A) to press OneSeal (B) into tip guard (D), with curve matching tip bore (C).	2 Insert SwitchTip in tip boare and firmly thread assembly unto gun.
		SwitchTip and Guard Assembly	
Contrôler l'étanchéité des raccords. Ne pas arrêter une fuite avec la main ou un chiffon! En cas de fuite, ARRÊTER le pulvérisateur immédiatement. Effectuer la Décompression page 23. Resserrer les raccords non étanches. Répéter le Démarrage , 1.-2. S'il n'y a plus de fuite, continuer à actionner le pistolet jusqu'à ce que le pulvérisateur soit bien rincé. Passer à 6.	6 Mettre le tuyau d'aspiration dans le seau de peinture. Actionner à nouveau le pistolet en dirigeant le jet dans le seau de rinçage jusqu'à ce que la peinture s'écoule. Monter la buse et la garde.	1 Verrouiller la gâchette. Se servir de l'extrémité de la buse SwitchTip (A) pour enfoncer le joint OneSeal (B) dans la garde (D), le côté incurvé faisant face à l'orifice de la garde (C).	2 Introduire la buse SwitchTip dans le trou de la buse et la visser à fond dans le pistolet.
		Ensemble buse SwitchTip et garde	
Inspeccione los racores en busca de fugas. ¡No detenga las fugas con la mano o con un trapo! Si hubiera fugas, APAGUE inmediatamente el pulverizador. Lleve a cabo el Procedimiento de descompresión en la página 23. Apriete los racores que tenían. Repita el procedimiento de Puesta en marcha , 1.-2. Si no hubiera fugas, siga disparando la pistola hasta que el sistema esté bien lavado. Proceda al paso 6.	6 Coloque le tubo de sifón en el cubo de pintura. Dispare la pistola en la lata de líquido de lavado hasta que salga pintura. Instale la boquilla y el portaboquillas.	1 Enganche el seguro del gatillo. Utilice la base de la boquilla SwitchTip (A) para colocar el cierre OneSeal (B) en el portaboquillas (D), encajando el cilindro en el alojamiento (C).	2 Introduzca la boquilla SwitchTip en el alojamiento y enrosque firmemente el conjunto en la pistola.
		Conjunto de boquilla de giro SwitchTip y portaboquillas	
Verifique se há fugas nos encaixes. Não impeça as fugas com a mão nem com um pano! Caso existam fugas, DESLIGUE imediatamente o equipamento. Efectue a Descompressão , na página 23. Aperte os encaixes que tiverem fugas. Repita o Procedimento de arranque , 1.-2. Caso não se verificarem fugas, continue a accionar a pistola até o sistema estar minuciosamente lavado. Avance para 6.	6 Coloque o tubo de sucção no balde de tinta. Accione novamente a pistola em direcção ao balde com líquido de lavagem, até aparecer tinta. Monte o bico e a protecção.	1 Engate o dispositivo de segurança do gatilho. Utilize a extremidade do SwitchTip (A) para encaixar o OneSeal (B) no protector do bico (D), com a parte curva na direcção do orifício do bico (C).	2 Introduza o SwitchTip no orifício do bico e enrosque firmemente a unidade à pistola.
		Montagem do bico SwitchTip e da protecção	

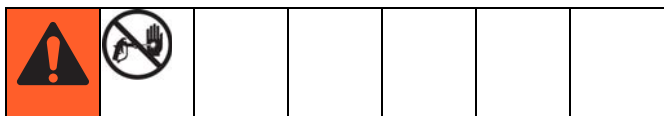
Gun Placement / Mise en place du pistolet / Colocación de la pistola / Preparação da pistola

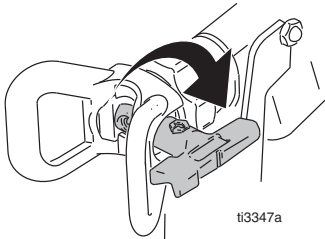
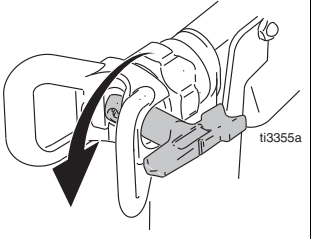
			
Install Gun 1 Insert gun into gun holder. Tighten clamp.	Position Gun 2 Position gun: up/down, forward/reverse, left/right. See examples, page 21.	Select Gun 3 Connect gun cables to left or right gun selector plates.	a One gun: Disconnect one gun selector plate from trigger.
Montage du pistolet 1 Mettre le pistolet dans le porte-pistolet. Serrer la fixation.	Position du pistolet 2 Positionner le pistolet vers le haut/le bas, en avant/en arrière, à gauche/à droite. Voir exemples, page 21.	Sélection du pistolet 3 Brancher les fils des pistolets sur les sélecteurs de pistolets: droit ou gauche.	a Un pistolet: débrancher le sélecteur un pistolet de la gâchette.
Instalación de la pistola 1 Introduzca la pistola en su soporte. Apriete la abrazadera.	Colocación de la pistola 2 Dirija la pistola hacia arriba/abajo, hacia adelante/atrás, hacia la izquierda/derecha. Vea los ejemplos, página 21.	Selección de la pistola 3 Conecte los cables de la pistola a las placas selectoras de la pistola izquierda o derecha.	a Una pistola: Desconecte la placa selectora de una de las pistolas del gatillo.
Instalação da pistola 1 Introduza a pistola no respectivo suporte. Aperte o grampo.	Posicionamento da pistola 2 Posicione a pistola para cima/para baixo, para a frente/para trás, para a esquerda/para a direita. Veja os exemplos, página 21.	Seleção da pistola 3 Ligue os cabos da pistola às placas de selecção esquerda ou direita da pistola.	a Uma pistola: desligue uma placa de selecção da pistola no gatilho.



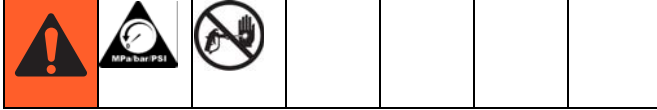
	English	Français	Español	Português
1	One line	Une ligne	Una línea	Uma linha
2	One gun curb	Bordure avec un pistolet	Flanco con una pistola	Uma pistola para passeio

Clearing Tip Clogs / Déboucher la buse / Despeje de las obstrucciones de la boquilla / Desobstrução do bico



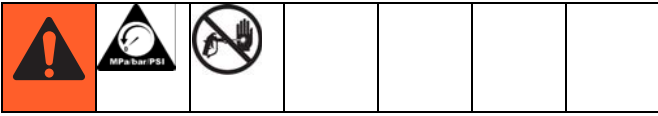
			
1	Release trigger, engage gun trigger safety. Rotate SwitchTip. Disengage gun trigger safety and trigger gun to clear the clog. Never point gun toward your hand or into a rag!	2	Engage gun trigger safety, return SwitchTip to original position, disengage gun trigger safety and continue spraying.
1	Relâcher la gâchette, la verrouiller. Faire pivoter la buse SwitchTip. Déverrouiller la gâchette et actionner le pistolet pour déboucher la buse. Ne jamais pointer le pistolet sur votre main ou un chiffon!	2	Verrouiller la gâchette du pistolet, remettre la SwitchTip en position initiale, déverrouiller la gâchette et continuer la pulvérisateur.
1	Suelte el gatillo, y enganche el seguro. Gire la boquilla de giro SwitchTip. Desenganche el seguro del gatillo y dispare la pistola para despejar la obstrucción. ¡Nunca apunte la pistola hacia su mano o hacia un trapo!	2	Enganche el seguro del gatillo de la pistola, vuelva a colocar la boquilla SwitchTip en posición original, desenganche el seguro del gatillo y siga pulverizando.
1	Solte o gatilho e engate a segurança do gatilho da pistola. Rode o SwitchTip. Desengate a segurança do gatilho e accione a pistola para a desobstruir. Nunca aponte a pistola para a mão nem para um pano!	2	Engate a segurança do gatilho da pistola, coloque o SwitchTip na posição original, desengate a segurança do gatilho da pistola e continue a pintar.

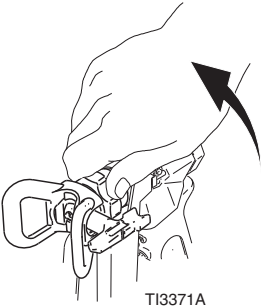
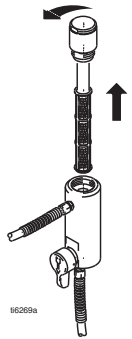
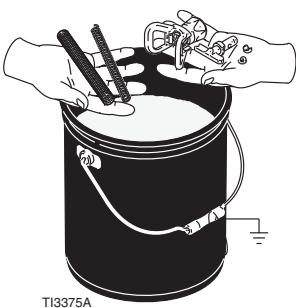
Pressure Relief / Décompression / Descompresión / Descompressão

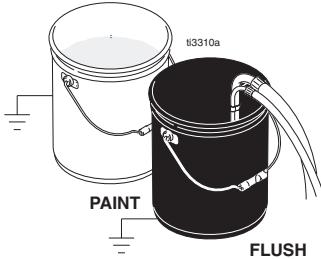
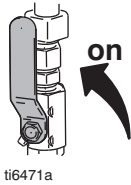
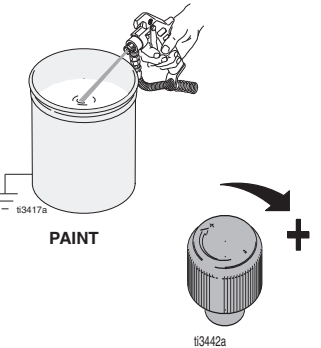


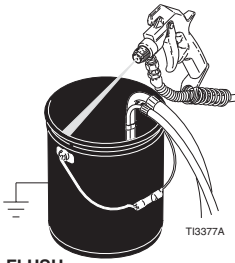
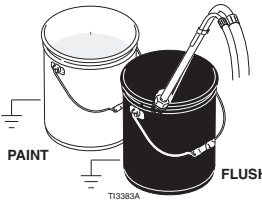
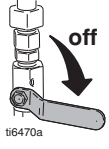
1 Ground sprayer with grounding clamp.	2 Set pump valve OFF . Turn engine OFF .	3 Turn pressure to lowest setting. Trigger gun to relieve pressure.	4 Engage gun trigger safety. Turn prime valve down.
1 Mettre le pulvérisateur à la terre au moyen de la pince de terre.	2 Mettre la vanne de la pompe sur OFF . Mettre le moteur sur OFF .	3 Réduire la pression au plus bas. Actionner le pistolet pour relâcher la pression.	4 Verrouiller la gâchette. Tourner la vanne d'amorçage vers le bas.
1 Conecte a tierra el pulverizador con una abrazadera de conexión a tierra.	2 Cierre la válvula de la bomba OFF . Apague el motor OFF .	3 Fije la presión en el valor más bajo. Dispare la pistola para liberar la presión.	4 Enganche el seguro del gatillo de la pistola. Gire la válvula de cebado hacia abajo.
1 Faça a ligação terra do equipamento com o grampo de ligação à terra.	2 Coloque a válvula da bomba na posição de desactivada OFF . Desligue o motor OFF .	3 Reduza a pressão para o valor mínimo. Accione a pistola para descomprimir.	4 Engate a segurança do gatilho da pistola. Rode a válvula de segurança para baixo.

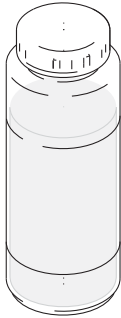
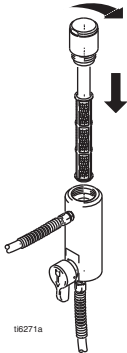
Cleanup / Nettoyage / Limpieza / Limpeza



			
			FLUSH
Perform Pressure Relief , page 23.	1 Remove guard and SwitchTip.	2 Unscrew bowl, remove filter. Assemble without filter.	3 Clean filter, guard and SwitchTip in flushing fluid.
Effectuer la Décompression , page 23.	1 Démonter la garde et la buse SwitchTip.	2 Dévisser la cloche, démonter le filtre. Remonter sans le filtre.	3 Nettoyer le filtre, la garde et SwitchTip avec un produit de rinçage.
Realice el Procedimiento de descompresión , página 23.	1 Retire el portaboquillas y la boquilla de giro SwitchTip.	2 Desenrosque la tapa del filtro, retire el filtro. Vuelva a montar sin el filtro.	3 Limpie el filtro, el porta boquillas y la boquilla de giro SwitchTip con el líquido de lavado.
Efectue a Descompressão , página 23.	1 Retire a protecção e o SwitchTip.	2 Desaperte o reservatório, retire o filtro. Monte o conjunto sem o filtro.	3 Limpe o filtro, o protector e o SwitchTip em líquido de lavagem.

			
4 Remove siphon tube set from paint and place in flushing fluid. Use water for water base paint and mineral spirits for oil base paint.	5 Set pump valve on.	6 Turn prime valve horizontal.	7 Hold gun against paint pail. Disengage gun trigger safety. Turn pressure control up until motor begins to drive pump. Trigger gun until flushing fluid appears.
4 Sortir le tuyau de succion de la peinture et le plonger dans le produit de rinçage. Utiliser de l'eau pour une peinture à base aqueuse et du white-spirit pour une peinture à l'huile.	5 Mettre la vanne de pompe en marche.	6 Mettre la vanne d'amorçage en position horizontale.	7 Appuyer le pistolet contre le seau de peinture. Déverrouiller la gâchette. Augmenter la pression jusqu'à ce que le moteur commence à entraîner la pompe. Actionner le pistolet jusqu'à ce que le fluide de rinçage s'écoule.
4 Retire el conjunto del tubo de aspiración del cubo de pintura e introdúzcalo en el líquido de lavado. Utilice agua para las pinturas al agua y alcohol mineral para pinturas al aceite.	5 Abra la válvula de la bomba (ON).	6 Coloque la válvula de cebado en posición horizontal.	7 Mantenga la pistola contra la lata de pintura. Desenganche el seguro del gatillo. Aumente el valor del control de presión hasta que el motor comience a accionar la bomba. Dispare al pistola hasta que comience a aparecer el líquido de lavado.
4 Retire o conjunto do tubo de sucção da tinta e coloque-o no líquido de lavagem. Utilize água para tintas à base de água e diluente para tintas à base de óleo.	5 Active a válvula da bomba.	6 Coloque a válvula de segurança na horizontal.	7 Encoste a pistola ao balde de tinta. Desengate o dispositivo de segurança da pistola. Aumente o regulador da pressão até o motor começar a accionar a bomba. Accione a pistola até aparecer líquido de lavagem.

 FLUSH	 1 -2 MIN.	 15-30 SEC.	
8 Move gun to flushing pail, hold gun against pail, trigger gun to thoroughly flush system. Release trigger and engage trigger safety.	9 Turn prime valve down and allow flushing fluid to circulate for 1-2 minutes to clean drain tube.	10 Raise siphon tube above flushing fluid and run sprayer for 15 to 30 seconds to drain fluid.	11 Turn pump valve OFF.
8 Approcher le pistolet du seau de rinçage, l'appuyer contre le seau et actionner le pistolet pour rincer soigneusement le pulvérisateur. Relâcher la gâchette et verrouiller la gâchette.	9 Tourner la vanne d'amorçage vers le bas et faire circuler le produit de rinçage pendant 1 à 2 minutes pour nettoyer le tuyau de vidange.	10 Relever le tuyau de succion au-dessus du niveau de produit de rinçage et faire fonctionner le pulvérisateur pendant 15 à 30 secondes pour vidanger le produit.	11 Mettre la vanne de la pompe sur OFF.
8 Mueva la pistola hasta el bidón de lavado, mantenga la pistola contra el bidón y dispárela para lavar el sistema. Suelte el gatillo y enganche el seguro.	9 Gire hacia abajo la válvula de cebado y deje que el líquido de lavado circule durante 1 ó 2 minutos para limpiar el tubo de drenaje.	10 Suba el tubo de aspiración por encima del líquido de lavado y haga funcionar el pulverizador durante 15 a 30 segundos para drenar el líquido.	11 Cierre la válvula de la bomba (OFF).
8 Vire a pistola para o balde de lavagem, segure a pistola contra o bale e accione-a, para lavar minuciosamente o sistema. Solte o gatilho e engate a respectiva segurança.	9 Rode a válvula de segurança para baixo e permita que o líquido de lavagem circule durante 1 a 2 minutos para limpar o tubo de drenagem.	10 Coloque o tubo de sucção acima do nível do líquido de lavagem e coloque o equipamento em funcionamento durante 15 a 30 segundos, para drenar o líquido.	11 Desligue a válvula da bomba OFF.

  Pump Armor ti2895a	 ti6271a	 TI3388A	 TI3390A FLUSH
CAUTION If flushing with water, flush again with mineral spirits, or Pump Armor, to leave a protective coating to prevent freezing or corrosion.	12 Make sure plastic center tube is tightened securely. Install filter bowl and filter. Hand tighten filter bowl.	13 Wipe sprayer, hose and gun with a rag soaked in water or mineral spirits.	14 Clean tip, guard and gasket with a soft bristle brush to prevent part failure due to dried materials. Assemble parts and attach loosely onto gun.
ATTENTION En cas de rinçage à l'eau, rincer à nouveau avec du white-spirit ou un produit anti-corrosion pour que ce produit constitue un revêtement protecteur qui empêchera le gel ou la corrosion.	12 S'assurer que le tuyau plastique central est bien fixé. Remonter la cloche du filtre et le filtre. Serrer la cloche du filtre à la main.	13 Essuyer le pulvérisateur, le flexible et le pistolet avec un chiffon imbibé d'eau ou de white-spirit.	14 Nettoyer la buse et le joint avec un pinceau souple pour empêcher tout dysfonctionnement dû à des dépôts de produit séché. Assembler les pièces et les monter sur le pistolet sans les bloquer.
PRECAUCIÓN Si se utiliza agua para el lavado, vuelva a lavar con alcohol mineral, o Protección para bombas y deje este recubrimiento protector en el pulverizador para ayudar a evitar la congelación o la corrosión.	12 Asegúrese de que el tubo central de plástico está firmemente apretado. Instale la cubeta del filtro y el filtro. Apriete a mano la cubeta del filtro.	13 Frote el pulverizador, la manguera y la pistola con un paño empapado en agua o alcohol mineral.	14 Limpie la boquilla, el portaboquillas y la junta con un cepillo suave para evitar su deterioro debido a la acumulación de producto seco. Ensamble las piezas y sujételas, sin apretarlas demasiado, en la pistola.
CUIDADO Se efectuar a lavagem com água, lave novamente com diluente ou Pump Armor para deixar um revestimento protector para ajudar a evitar congelação ou corrosão.	12 Certifique-se de que o tubo central em plástico está firmemente apertado. Instale o filtro e o respectivo reservatório. Aperte o reservatório do filtro à mão.	13 Limpe o equipamento de pintura, o tubo e a pistola com um pano embebido em água ou diluente.	14 Limpe o bico, o protector e a junta com uma escova de cerdas macias, para evitar que as peças avariem devido à presença de produto seco. Monte as peças e encaixe-as folgadoamente na pistola.

[illegible]

Warranty / Garantie / Garantía / Garantia

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

FOR GRACO CANADA CUSTOMERS

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ADDITIONAL WARRANTY COVERAGE

Graco does provide extended warranty and wear warranty for products described in the "Graco Contractor Equipment Warranty Program".

Graco Information

For the latest information about Graco products, visit www.graco.com.

For patent information, see www.graco.com/patents.

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Original instructions. This manual contains English MM 313775

Traduction des instructions originales. This manual contains French. MM 313775

Traducción de las instrucciones originales. This manual contains Spanish. MM 313775

Tradução das instruções originais. This manual contains Portuguese. MM 313775

Graco Headquarters: Minneapolis

International Offices: Belgium, China, Japan, Korea

GRACO INC. AND SUBSIDIARIES • P.O. BOX 1441 • MINNEAPOLIS MN 55440-1441 • USA

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Revision E, November 2014



LineLazer™ 130HS
Airless Paint Striper

313776D
EN

For application of line striping materials. For professional use only. Not for use in explosive atmospheres.

3300 psi (22.8 MPa, 228 bar) Maximum Working Pressure

257780	✓			✓		
287025	✓	✓	✓			

Important Safety Instructions

Read all warnings and instructions in this manual.
Save these instructions.

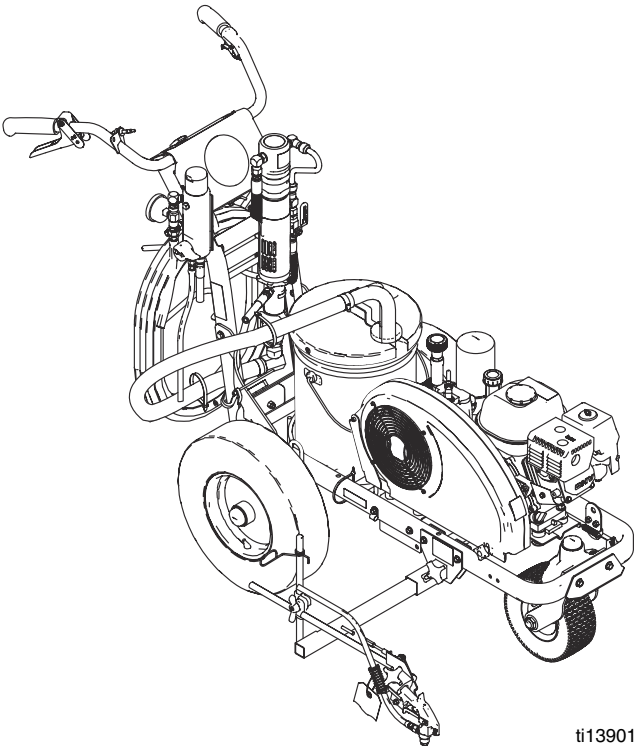
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Chinese Patent ZL03801904.3
U.S. Patent 6,913,417
U.S. Patent 7,654,771
Europe Patent 1841310
Europe Patent 1827710
Ukraine Patent 90886
Australian Patent 2005319204
Russian Patent 2398927



ti13901a



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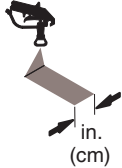
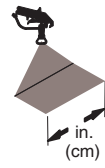
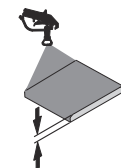
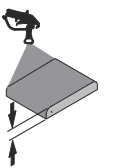
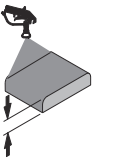
Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbol refers to procedure-specific risk. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

 WARNING	
	FIRE AND EXPLOSION HAZARD Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion: • Use equipment only in well ventilated area. • Do not fill fuel tank while engine is running or hot; shut off engine and let it cool. Fuel is flammable and can ignite or explode if spilled on hot surface. • Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc). • Keep work area free of debris, including solvent, rags and gasoline. • Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present. • Ground all equipment in the work area. See Grounding instructions. • Use only grounded hoses. • Hold gun firmly to side of grounded pail when triggering into pail. • If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem. • Keep a working fire extinguisher in the work area.
	CARBON MONOXIDE HAZARD Exhaust contains poisonous carbon monoxide, which is colorless and odorless. Breathing carbon monoxide can cause death. Do not operate in an enclosed area.
	SKIN INJECTION HAZARD High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment. • Do not point gun at anyone or at any part of the body. • Do not put your hand over the spray tip. • Do not stop or deflect leaks with your hand, body, glove, or rag. • Do not spray without tip guard and trigger guard installed. • Engage trigger lock when not spraying. • Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.
	PRESSURIZED EQUIPMENT HAZARD Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury. • Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment. • Tighten all fluid connections before operating the equipment. • Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.

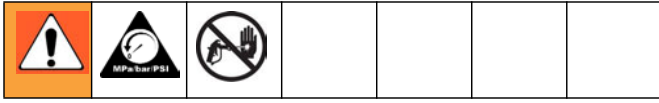
 WARNING	
	EQUIPMENT MISUSE HAZARD Misuse can cause death or serious injury. • Do not operate the unit when fatigued or under the influence of drugs or alcohol. • Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals. • Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS forms from distributor or retailer. • Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only. • Do not alter or modify equipment. • Use equipment only for its intended purpose. Call your distributor for information. • Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. • Do not kink or over bend hoses or use hoses to pull equipment. • Keep children and animals away from work area. • Comply with all applicable safety regulations.
	BURN HAZARD Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.
	MOVING PARTS HAZARD Moving parts can pinch or amputate fingers and other body parts. • Keep clear of moving parts. • Do not operate equipment with protective guards or covers removed. • Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure in this manual. Disconnect power or air supply.
	TOXIC FLUID OR FUMES HAZARD Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed. • Read MSDS's to know the specific hazards of the fluids you are using. • Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines. • Always wear impervious gloves when spraying or cleaning equipment.
	PERSONAL PROTECTIVE EQUIPMENT You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to: • Protective eyewear • Clothing and respirator as recommended by the fluid and solvent manufacturer • Gloves • Hearing protection
	RECOIL HAZARD Gun may recoil when triggered. If you are not standing securely, you could fall and be seriously injured.

Tip Selection

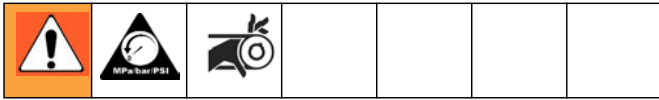
							
LL5213*	2 (5)				✓		
LL5215*	2 (5)					✓	
LL5217		4 (10)				✓	
LL5219		4 (10)					✓
LL5315		4 (10)			✓		
LL5317		4 (10)			✓		
LL5319		4 (10)				✓	
LL5321		4 (10)				✓	
LL5323		4 (10)				✓	
LL5325		4 (10)					✓
LL5327		4 (10)					✓
LL5329		4 (10)					✓
LL5331		4 (10)					✓
LL5333		4 (10)					✓
LL5335		4 (10)					✓
LL5355		4 (10)					✓
LL5417			6 (15)		✓		
LL5419			6 (15)		✓		
LL5421			6 (15)		✓		
LL5423			6 (15)			✓	
LL5425			6 (15)			✓	
LL5427			6 (15)			✓	
LL5429			6 (15)			✓	
LL5431			6 (15)				✓
LL5435			6 (15)				✓
LL5621				12 (30)	✓		
LL5623				12 (30)	✓		
LL5625				12 (30)	✓		
LL5627				12 (30)	✓		
LL5629				12 (30)	✓		
LL5631				12 (30)		✓	
LL5635				12 (30)		✓	
LL5639				12 (30)			✓

* Use 100 mesh filter to reduce tip clogs.

General Repair Information



1. **Keep all screws, nuts, washers, gaskets, and electrical fittings** removed during repair procedures. These parts are not normally provided with replacement assemblies.
2. **Test repair** after problem is corrected.
3. **If sprayer does not operate properly**, review repair procedure to verify procedure was done correctly. If necessary, see **Troubleshooting**, page 8, for other possible solutions.



4. **Install belt guard before operation** of sprayer and replace if damaged. Belt guard reduces risk of pinching and loss of fingers.

Grounding



Ground sprayer with grounding clamp to earth ground when flushing sprayer. FIG. 1.

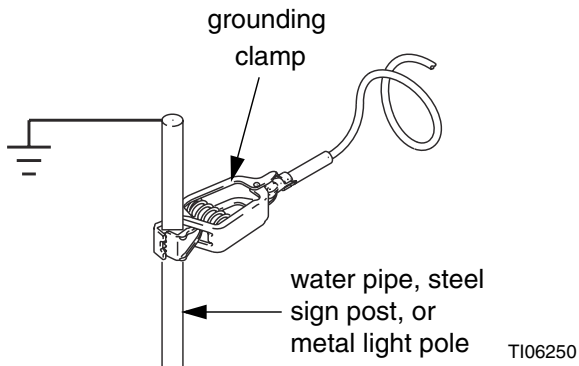
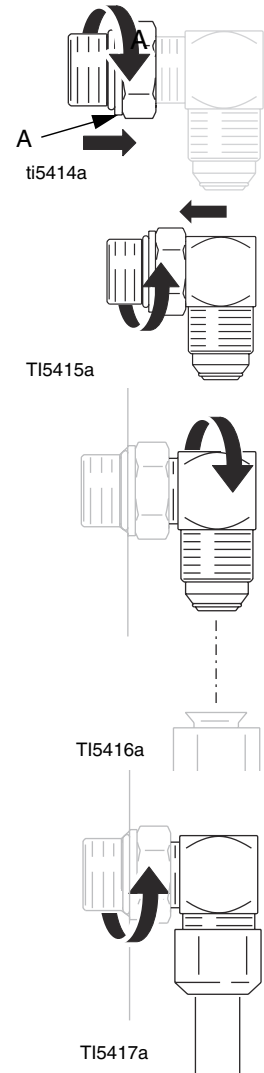


FIG. 1

SAE O-Ring Installation

1. Unscrew lock nut to touch fitting.
2. Lubricate o-ring (A).
3. Screw in fitting hand tight.
4. Unscrew fitting until oriented properly.



5. Tighten lock nut to indicated torque. (Make sure washer is seated properly without pinching o-ring).

Maintenance

Pressure Relief Procedure



1. Engage trigger lock.
2. Turn engine ON/OFF switch to OFF.
3. Move pump valve to OFF (clockwise) and turn pressure control knob fully counterclockwise.
4. Disengage the trigger lock. Hold a metal part of the gun firmly to a grounded metal pail, and trigger the gun to relieve pressure.
5. Engage the trigger lock.
6. Open pressure drain valve. Leave valve open until you are ready to spray again.

If you suspect the spray tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen tip guard retaining nut or hose end coupling to relieve pressure gradually, then loosen completely. Clear hose or tip obstruction.

CAUTION

- Minimum hose size allowable for proper sprayer operation is 3/8 in. x 50 ft.
- For detailed engine maintenance and specifications, refer to separate Honda Engines Owner's Manual, supplied.

DAILY: Check engine oil level and fill as necessary.

DAILY: Check hydraulic oil level and fill as necessary.

DAILY: Check hose for wear and damage.

DAILY: Check gun safety for proper operation.

DAILY: Check prime/spray drain valve for proper operation.

DAILY: Check and fill the gas tank.

DAILY: Check that displacement pump is tight.

DAILY: Top off TSL level in displacement pump packing nut to help prevent material buildup on piston rod and early wear of packings.

AFTER THE FIRST 20 HOURS OF OPERATION: Drain engine oil and refill with clean oil. Reference Honda Engines Owner's Manual for correct oil viscosity.

WEEKLY: Remove engine air filter cover and clean element and replace, if necessary. If operating in an unusually dusty environment: check filter daily.

WEEKLY/DAILY: Remove any debris from hydraulic rod.

AFTER EACH 100 HOURS OF OPERATION: Change engine oil. Reference Honda Engines Owner's Manual for correct oil viscosity.

SEMI-ANNUALLY: Check belt wear, page 18; replace if necessary.

YEARLY OR 2000 HOURS: Replace hydraulic oil and filter element with Graco hydraulic oil 169236 (5 gal-lon/18.9 liter) or 207428 (1 gallon/3.8 liter) and filter element 246173; page 17.

SPARK PLUG: Use only BPR6ES (NGK) or W20EPR-U (NIPPONDENSO) plug. Gap plug to 0.028 to 0.031 in. (0.7 to 0.8 mm). Use spark plug wrench when installing and removing plug.

Caster Wheel

(See letter call-outs in **Parts** drawing on page 19.)

1. Once each year, tighten nut (127, detail A) until spring washer bottoms out. Then back off the nut 1/2 to 3/4 turn.
2. Once each year, tighten nut (127) until it begins to compress spring washer. Then tighten the nut an additional 1/4 turn.
3. Once each month, grease the wheel bearing (F).
4. Check pin (55) for wear. If pin is worn out, there will be play in the caster wheel. Reverse or replace the pin as needed.
5. Check caster wheel alignment as necessary. To align: loosen bolt (145), align wheel and tighten bolt.

Troubleshooting



Problem	Cause	Solution
Gas engine pulls hard (won't start).	Hydraulic pressure is too high.	Turn hydraulic pressure knob counterclockwise to lowest setting.
Engine won't start.	Engine switch is OFF.	Turn engine switch ON.
	Engine is out of gas.	Refill gas tank. Honda Engines Owner's Manual.
	Engine oil level is low.	Try to start engine. Replenish oil, if necessary. Honda Engines Owner's Manual.
	Spark plug cable is disconnected or damaged.	Connect spark plug cable or replace spark plug.
	Cold engine.	Use choke.
	Fuel shutoff lever is OFF.	Move lever to ON position.
	Oil is seeping into combustion chamber.	Remove spark plug. Pull starter 3 to 4 times. Clean or replace spark plug. Start engine. Keep sprayer upright to avoid oil seepage.
Engine operates, but displacement pump does not operate.	Pump valve is OFF.	Turn pump valve ON.
	Pressure setting is too low.	Turn pressure adjusting knob clockwise to increase pressure. Manual 311018.
	Fluid filter (11) is dirty.	Clean filter.
	Tip or tip filter is clogged.	Clean tip or tip filter. Manual 311254.
	Displacement pump piston rod is stuck due to dried paint.	Repair pump. Manual 311845.
	Belt worn, broken or off pulley.	Replace.
	Hydraulic fluid too low.	Shut of sprayer. Add fluid*.
	Hydraulic motor not shifting.	Set pump valve OFF. Turn pressure down. Turn engine OFF. Pry rod up or down until hydraulic motor shifts.

* Check hydraulic fluid level often. Do not allow it to become too low. Use only Graco approved hydraulic fluid, page 7.

Problem	Cause	Solution
Displacement pump operates, but output is low on upstroke	Piston ball is not seating.	Service piston ball. Manual 311845.
	Piston packings are worn or damaged.	Replace packings. Manual 311845.
Displacement pump operates but output is low on downstroke and/or on both strokes.	Strainer (34e) is clogged.	Clean strainer.
	O-ring in pump is worn or damaged.	Replace o-ring. Manual 311845..
	Intake valve ball is packed with material or is not seating properly.	Clean intake valve. Manual 311845..
	Engine speed is too low.	Increase throttle setting. Manual 313775.
	Suction tube air leak.	Tighten suction tube.
	Pressure setting is too low.	Increase pressure. Manual 313775.
	Fluid filter (11), tip filter or tip is clogged or dirty.	Clean filter. Manual 313775 or 311254.
	Large pressure drop in hose with heavy materials.	Use larger diameter hose and/or reduce overall length of hose. Use of more than 100 ft of 1/4 in. hose significantly reduces performance of sprayer. Use 3/8 in. hose for optimum performance (50 ft minimum).
Pump is difficult to prime.	Air in pump or hose.	Check and tighten all fluid connections. Reduce engine speed and cycle pump as slowly as possible during priming.
	Intake valve is leaking.	Clean intake valve. Be sure ball seat is not nicked or worn and that ball seats well. Reassemble valve.
	Pump packings are worn.	Replace pump packings. Manual 311845.
	Paint is too thick.	Thin the paint according to the supplier's recommendations.
	Engine speed is too high.	Decrease throttle setting before priming pump. Manual 313775.
High engine speed at no load.	Misadjusted throttle setting.	Reset throttle to 3700-3800 engine rpm at no load.
	Worn engine governor.	Replace or service engine governor.
Low stall or run pressure shown on display.	New pump or new packings.	Pump break-in period takes up to 100 gallons of material.
	Faulty transducer.	Replace transducer.
Excessive paint leakage into throat packing nut.	Throat packing nut is loose.	Remove throat packing nut spacer. Tighten throat packing nut just enough to stop leakage.
	Throat packings are worn or damaged.	Replace packings. Manual 311845.
	Displacement rod is worn or damaged.	Replace rod. Manual 311845.
Fluid is spitting from gun.	Air in pump or hose.	Check and tighten all fluid connections. Reprime pump. Manual 313775.
	Tip is partially clogged.	Clear tip. Manual 311254.
	Fluid supply is low or empty.	Refill fluid supply. Prime pump. Manual 313775. Check fluid supply often to prevent running pump dry.

Problem	Cause	Solution
Excessive leakage around hydraulic motor piston rod wiper.	Piston rod seal worn or damaged.	Replace these parts.
Fluid delivery is low.	Pressure setting too low.	Increase pressure. Manual 313775.
	Displacement pump outlet filter (if used) is dirty or clogged.	Clean filter.
	Intake line to pump inlet is not tight.	Tighten.
	Hydraulic motor is worn or damaged.	Bring sprayer to Graco distributor for repair.
	Large pressure drop in fluid hose.	Use larger diameter or shorter hose.
The sprayer overheats.	Paint buildup on hydraulic components.	Clean.
	Oil level is low.	Fill with oil, page 7.
Excessive hydraulic pump noise.	Low hydraulic fluid level.	Shut off sprayer. Add fluid*, page 7.

Hydraulic Pump

Removal



1. Allow hydraulic system to cool before beginning service.
2. Relieve pressure, page 7.
3. Place drip pan or rags under sprayer to catch hydraulic oil that leaks out during repair.
4. Remove drain plug (195) and oil filter (199) and allow hydraulic oil to drain.
5. Remove screw (224), loosen belt guard knob (241) and belt guard (24).
6. Raise motor and remove belt (143).
7. Remove two set screws (169) and fan pulley (86).
8. Remove case drain tube (251).
9. Remove elbow (182).
10. Loosen screw (184) and remove pressure control guard (63).
11. Loosen set screw (102) and remove remote pressure control cable (12).
12. Remove eight screws (184) and washers (101), reservoir cover (237), filter assembly (A) and gasket (85).
13. Remove four screws (215) and o-rings (178), o-ring (180) and hydraulic pump (252) from reservoir cover (237).

Installation

1. Install hydraulic pump (252) on reservoir cover (237) with four screws (215) and o-rings (178), o-ring (180); torque 100 in-lb (11 N•m).
2. Install gasket (85) filter assembly (A) and reservoir cover (237) with eight washers (101) and screws (184); torque 90 in-lb (10 N•m).
3. Install elbow (182) per instructions, page 6; torque to 15 ft-lb (20.3 N•m).
4. Install pressure control guard (63) and tighten screw (184).
5. Connect hydraulic hoses (32) and (35).
6. Install case drain tube (251); torque to 15 ft-lb (20.3 N•m).
7. Install fan pulley (86) with two set screws (193).
8. Raise motor and install belt (143).
9. Install belt guard (24) with screw (224) and belt guard knob (241).
10. Install remote pressure control cable (12). Tighten set screw (102).
11. Install drain plug (195); torque to 110 in-lb (12.4 N•m). Install oil filter (199); tighten 3/4 turn after gasket contacts base. Fill with Graco hydraulic oil, page 7.
12. Start up and allow pump to operate at low pressure for approximately 5 minutes to purge all air.
13. Check and top off hydraulic oil level.

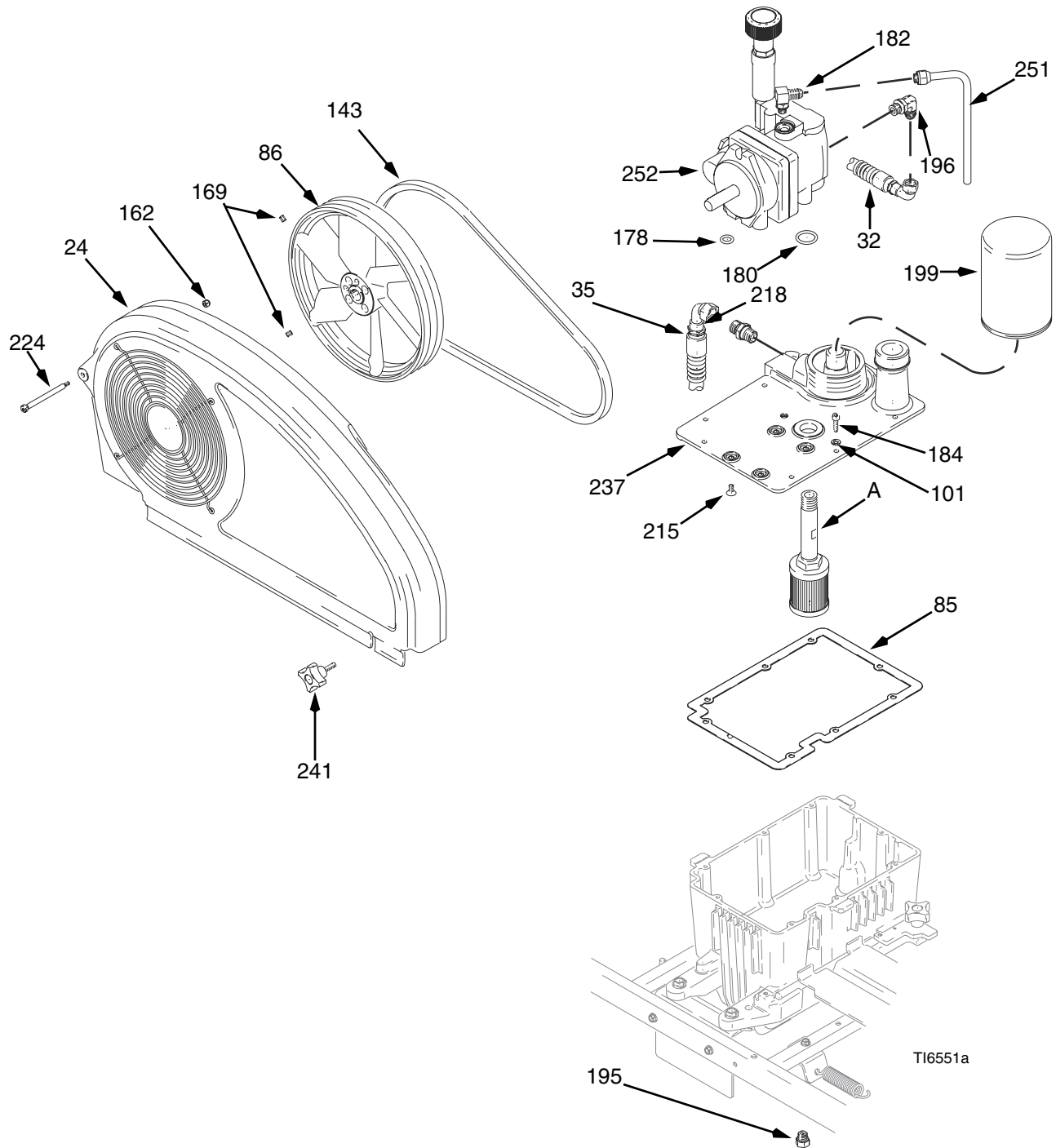


FIG. 2

Fan Belt

Removal

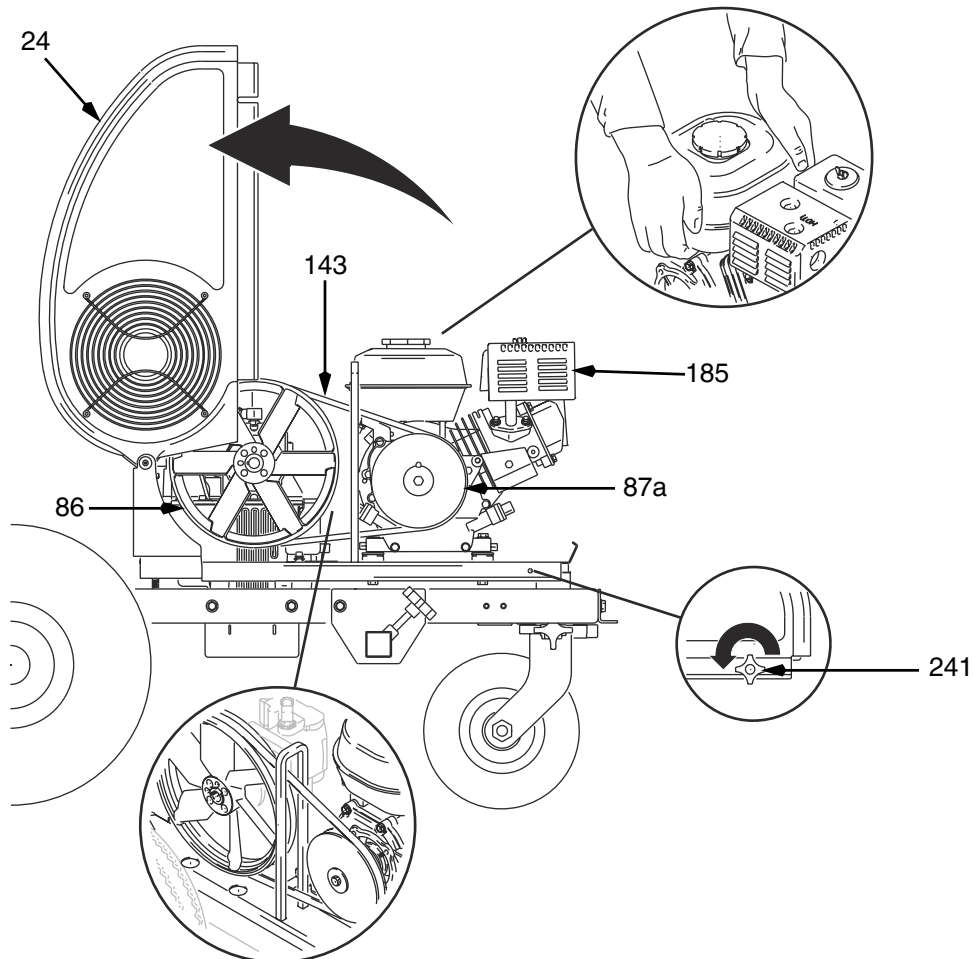


1. Relieve pressure, page 7.
2. FIG. 3. Loosen belt guard knob (241).
3. Rotate belt guard (24) up.
4. Lift engine (185) up to remove tension on belt (143).

5. Remove belt from fan pulley (86) and fan pulley (87a).

Installation

1. Thread belt (143) around fan pulley (87a) and fan pulley (86).
2. Lower engine (185) to put tension on belt.
3. Rotate belt guard (24) down.
4. Tighten belt guard knob (241).



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FIG. 3

Engine

NOTE: All service to the engine must be performed by an authorized HONDA dealer,

Removal

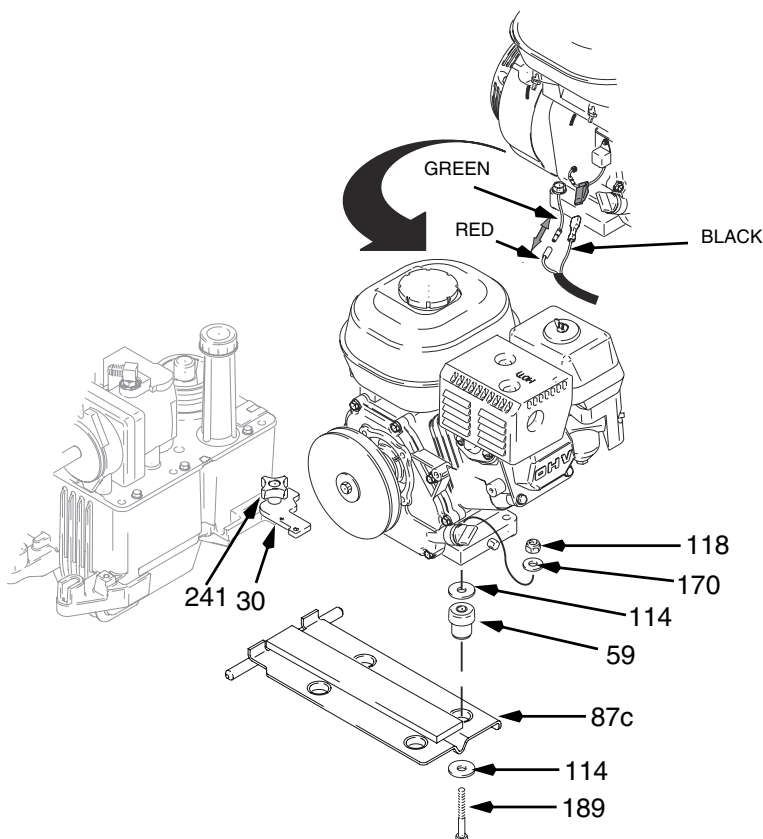


1. Relieve pressure, page 7.
2. Do **Fan Belt, Removal**; page 13.
3. Loosen hand nut (241). Swing bracket (30) out.
4. FIG. 4. Disconnect red and black leads from engine.
5. Remove engine and rocker plate (87c) from sprayer.

6. Remove four screws (189), washers (114), washers (170) and nuts (118) and remove rocker plate, dampeners (59) and washers (114) from engine.

Installation

1. Install rocker plate (87c), dampeners (59) and washers (170), washers (114) on engine (185) with four screws (189), washers (170) and nuts (118); torque to 20 ft-lb (27.1 N•m).
2. Install engine and rocker plate (87c) on sprayer.
3. Connect red and black leads.
4. Do **Fan Belt, Installation**; page 13.
5. Swing motor retainer bracket (30) in. Tighten hand nut (241).



TI6520b

FIG. 4

Hydraulic Motor Yoke

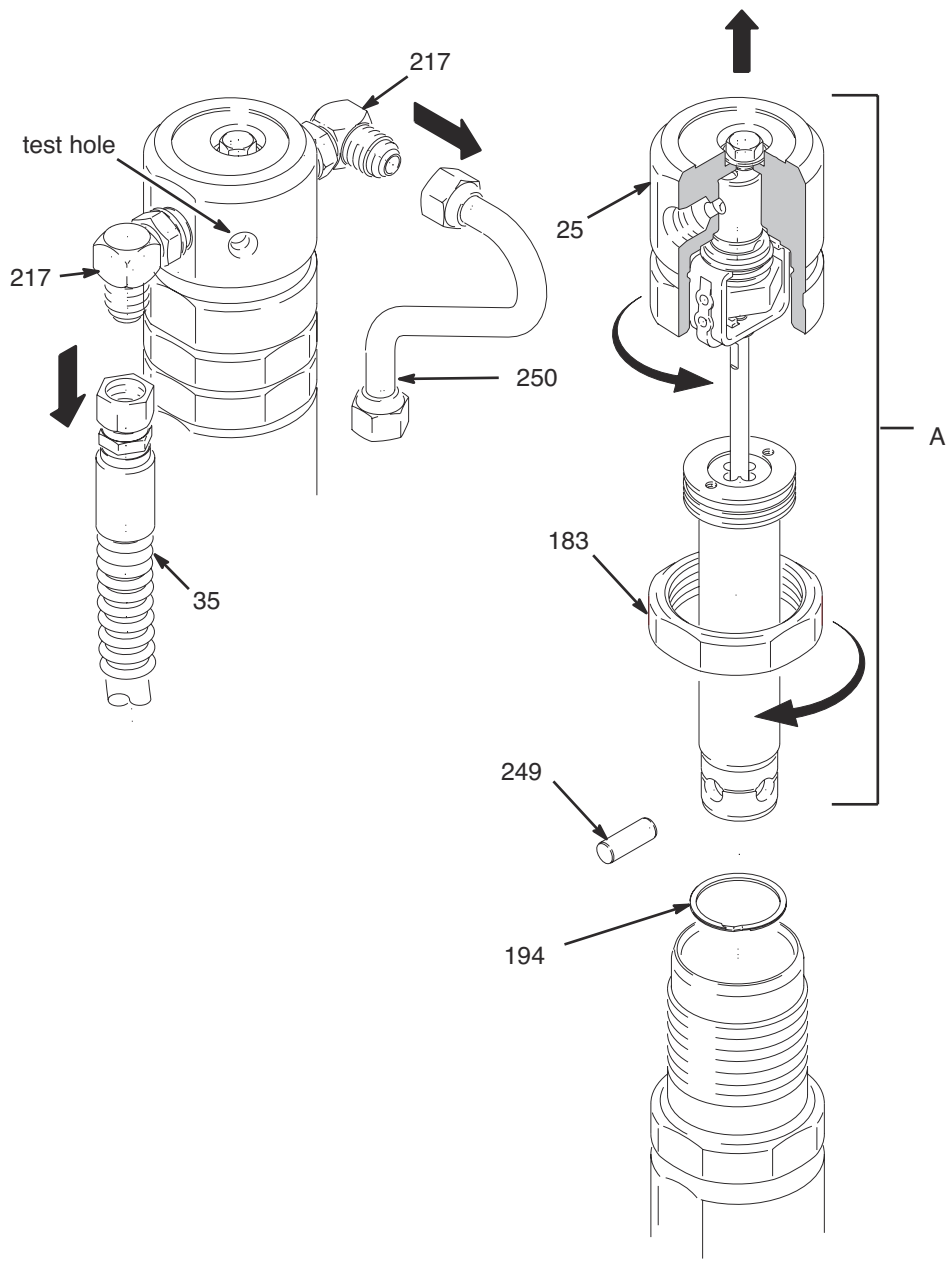
Removal



1. Relieve pressure, page 7.
2. Place drip pan or rags under sprayer to catch hydraulic oil that leaks out during repair.
3. FIG. 5. Slide retainer clip (194) down to remove. Remove pump pin (249).
4. Remove hydraulic lines (35, 250) from fittings (217) at top left and right side of hydraulic motor.
5. Loosen jam nut (183).
6. Unscrew and remove hydraulic motor cap (25).
7. Slide piston rod/hydraulic motor cap assembly (A) from hydraulic motor cylinder (69).

Installation

1. Slide piston rod assembly (A) into hydraulic motor cylinder.
2. Screw down hydraulic motor cap (25) until cap bottoms out. Unscrew hydraulic motor cap until inlet and outlet align with hydraulic line fittings and test hole in hydraulic motor cap points toward belt guard (24).
3. Torque jam nut (183) against hydraulic motor cap (25) to 150 ft-lb (17 N•m).
4. Install hydraulic lines (35, 250) to fittings (217) to top left and right side of hydraulic motor per procedure on page 6; torque to 40 ft-lb (54.2 N•m).
5. Pull start rope slowly to align pin holes of hydraulic motor and displacement pump (21). Connect with pump pin (249); and retainer clip (194), page 18.
6. Start engine and operate pump for 30 seconds. Turn engine OFF. Check hydraulic oil level and fill with Graco hydraulic oil, page 7.



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FIG. 5

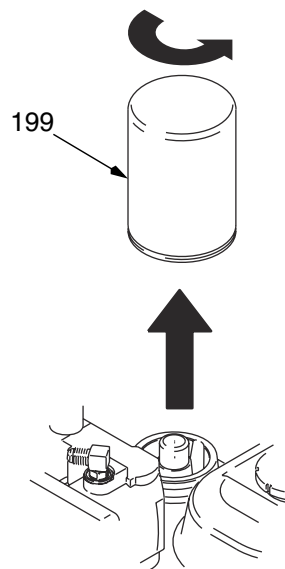
Oil/Filter Change

Removal

1. FIG. 6 Place drip pan or rags under sprayer to catch hydraulic oil that drains out.
2. Remove drain plug (195). Allow hydraulic oil to drain.
3. Unscrew filter (199) slowly - oil runs into groove and drains out rear.

Installation

1. Install drain plug (195). Apply a light coat of oil to oil filter gasket and install oil filter (199). Tighten oil filter 3/4 turn after gasket contacts base.
2. Fill with 1.25 gallons (4.73 liters) of Graco hydraulic oil 169236 (5 gallon/20 liter) or 207428 (1 gallon/3.8 liter)
3. Check oil level.
4. Check oil level.



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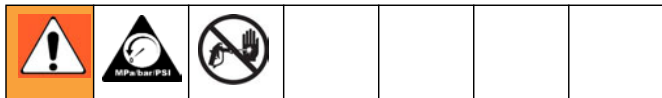
FIG. 6

Displacement Pump

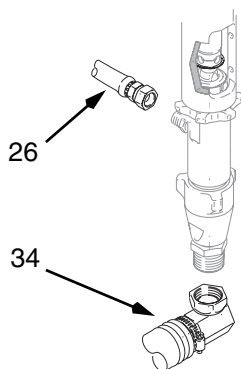
See manual 311845 for pump repair instructions.

Removal

1. Flush pump.



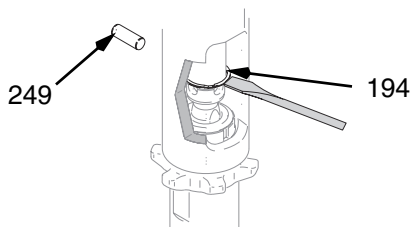
2. Relieve pressure, page 7.
3. FIG. 7. Remove suction tube (34) and hose (26).



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FIG. 7

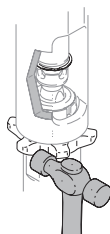
4. FIG. 8. Push retaining spring (194) up. Push out pin (249).



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FIG. 8

5. FIG. 9. Loosen jam nut. Unscrew pump.



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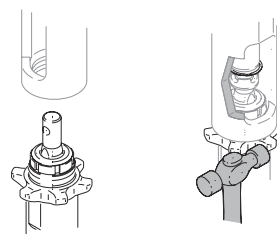
FIG. 9

Installation

CAUTION

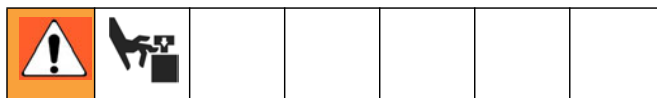
If the pump jam nut loosens during operation, the threads of the hydraulic motor manifold will be damaged. Tighten jam nut as specified.

1. FIG. 10. Screw jam nut to bottom of pump threads. Screw pump completely into manifold. Unscrew pump from manifold until pump outlet aligns with hose. Hand tighten jam nut, then tap 1/8 to 1/4 turn with hammer or torque to 200 ft-lb (270 N•m).

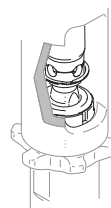


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FIG. 10



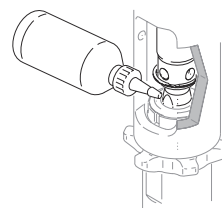
2. FIG. 11. Slowly pull engine starter rope until pump rod pin hole is aligned with hydraulic rod hole. FIG. 8. Push pin (249) into hole. Push retaining spring (194) into groove.



ti13908a

FIG. 11

3. FIG. 12. Fill packing nut with Graco TSL.

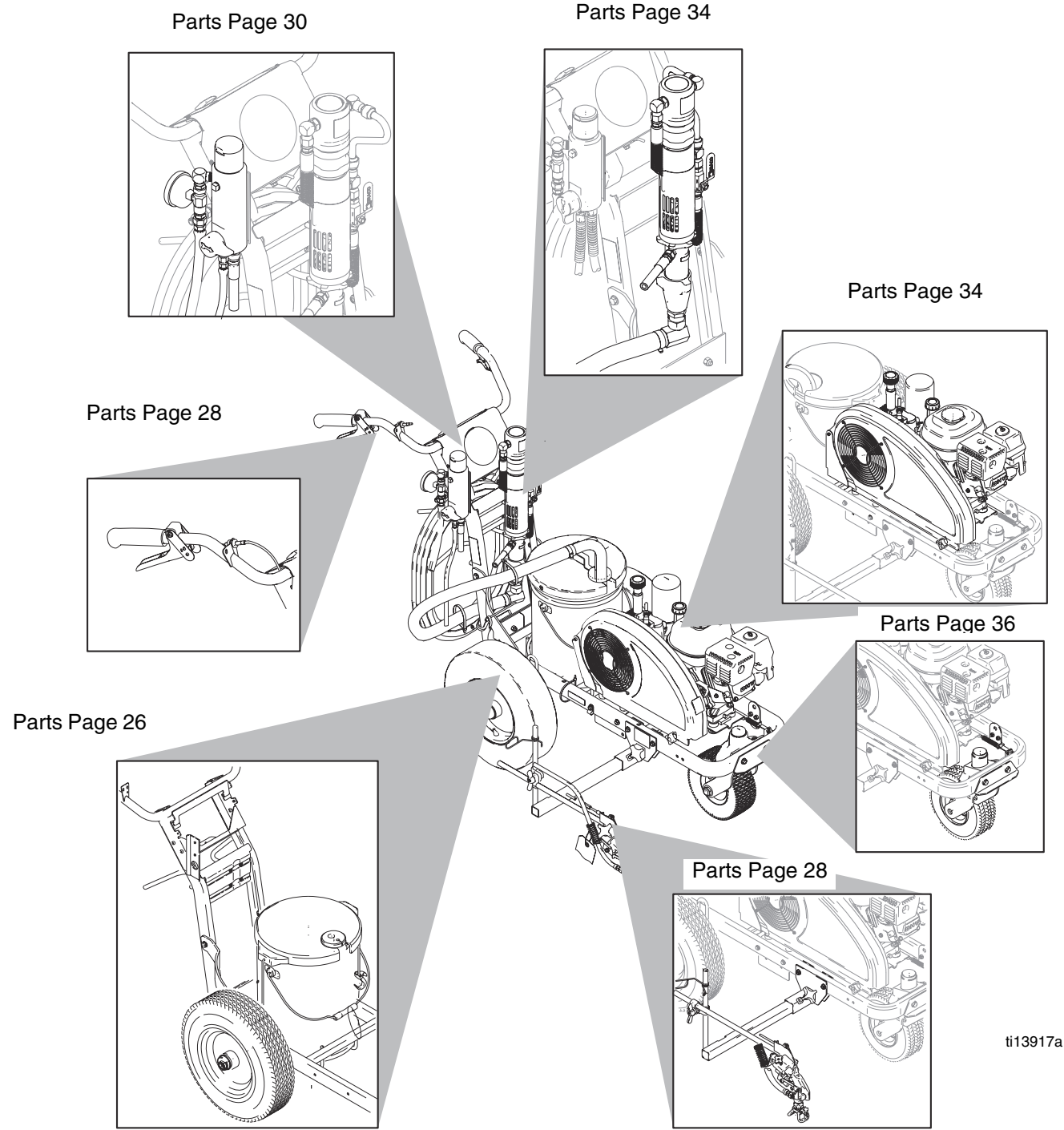


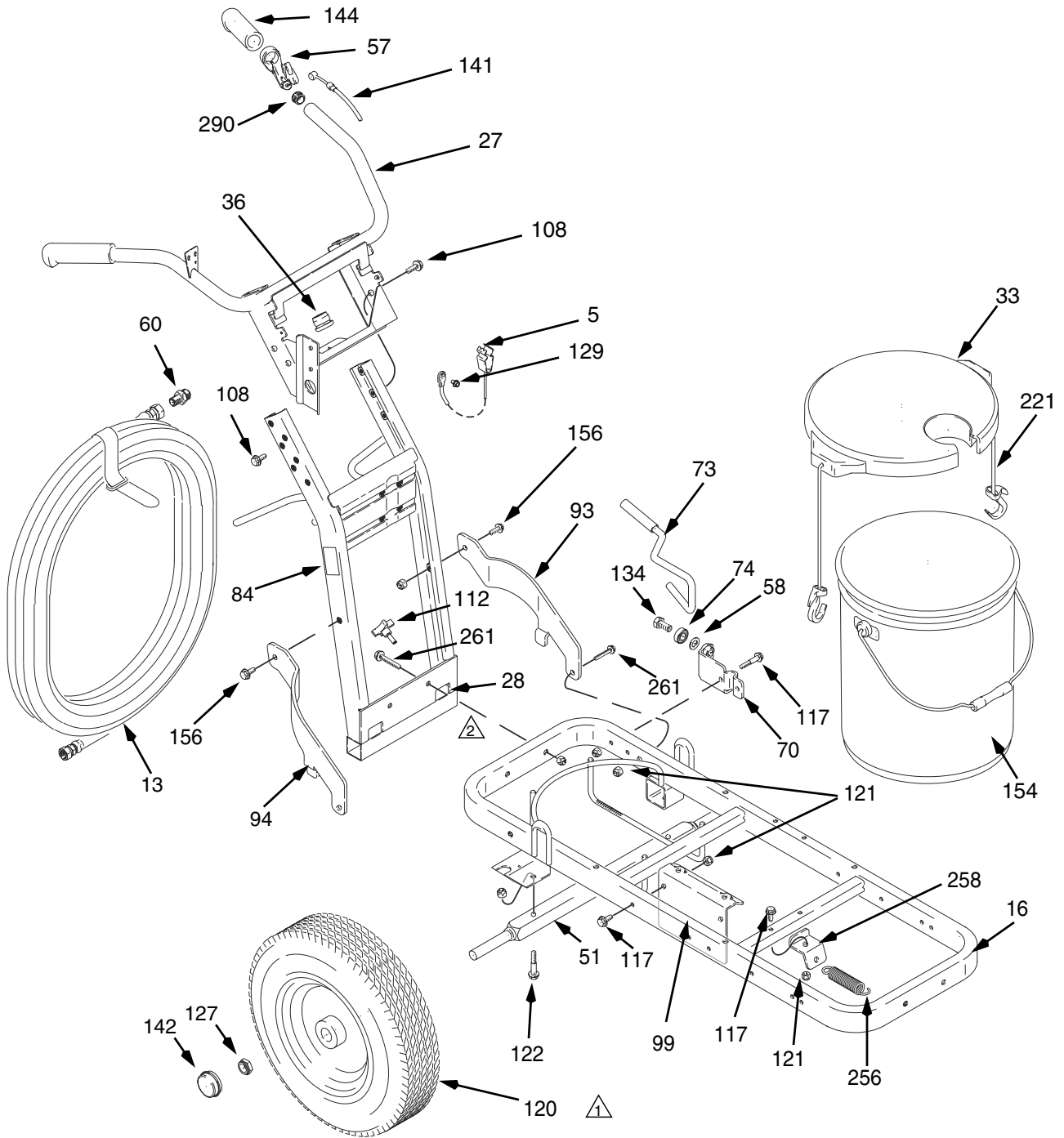
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FIG. 12

Parts

LineLazer IV 130HS





ti13910a

LineLazer IV 130HS

Ref	Part	Description	Qty	Ref	Part	Description	Qty
5	237686	CLAMP, grounding assy	1	112	111145	KNOB, pronged	2
13	245225	HOSE, 3/8 in. x 50 ft	1	117	110837	SCREW, flange, hex	10
16	287623	FRAME, linestriper (painted)	1	120	255162	WHEEL, pneumatic	2
27	287417	HANDLE	1	121	111040	NUT, lock, insert, nylock, 5/16	10
28	287622	SUPPORT, handle, painted	1	122	111194	SCREW, cap flange hd	2
33		COVER, pail		127	112405	NUT, lock	4
	240926	No. 221 (Model 257780)	1	129	112798	SCREW, thread forming, hex hd	2
	287567	includes 221 (Model 287025)	1	134	113961	SCREW, cap, hex hd	1
36	115642	BUSHING, strain relief	2	141	241445	CABLE, caster	1
51	193405	AXLE	1	142	114648	CAP, dust	3
57	194310	LEVER, actuator	1	144	114659	GRIP, handle	2
58	195134	SPACER, ball guide	1	154	115077	PAIL, plastic	1
60	196176	ADAPTER, nipple	1	156	112395	SCREW, cap, flng hd	2
66	15K357	SENSOR, distance	1	221	119771	STRAP, cover	2
68	15J088	SHIELD, sensor, distance	1	256	119696	SPRING, extension	1
70	198891	BRACKET, mounting	1	258	15F441	BRACKET, frame	1
73	198930	ROD, brake	1	261	116780	SCREW, hex hd	4
74	198931	BEARING	1	290	120151	PLUG, tube	2
77	114271	STRAP, retaining	1	134	113961	SCREW, cap, hex hd	1
84▲	15F638	LABEL, warning, fire and skin	1	141	241445	CABLE, caster	1
93	15F577	BRACE, left, painted	1				
94	15F576	BRACE, right, painted	1				
99	15F425	BRACKET, reservoir	1				
107	178342	CLIP, spring	4				
108	112395	SCREW, cap	2				
109	102478	STRAP, wiring tie (not shown)	6				
51	193405	AXLE	1				

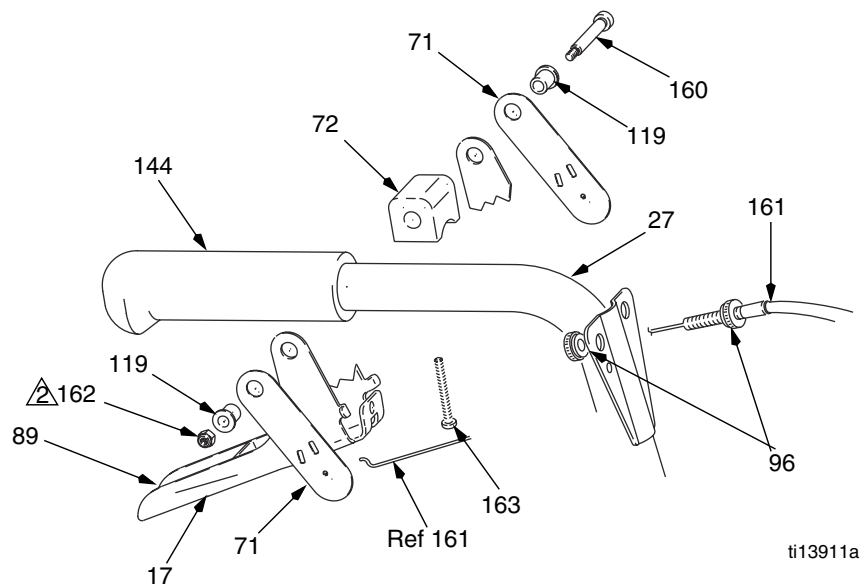
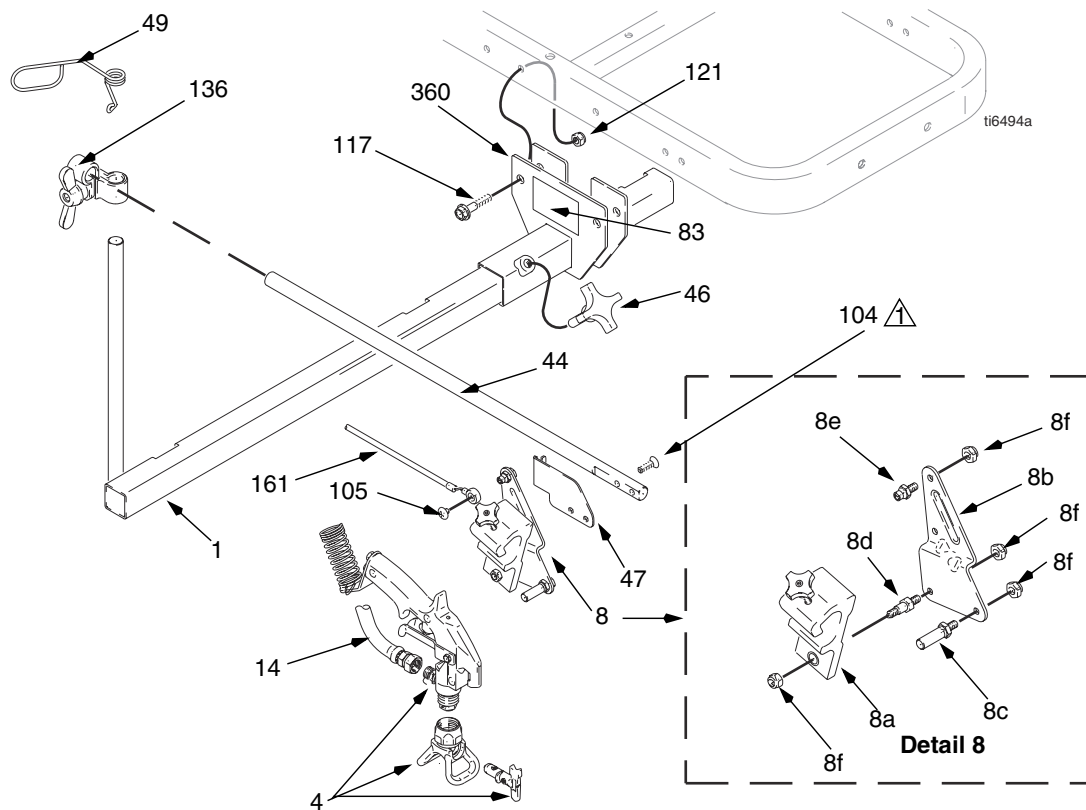
▲ Replacement warning labels may be ordered free of charge.

Notes

① Maintain tire pressure at 28-32 psi

② Torque to 17-23 ft-lb

LineLazer IV 130Hs



LineLazer IV 130Hs

Ref	Part	Description	Qty
1	224052	BRACKET, support gun	1
4	248157	GUN, flex, basic, includes guard & tip	1
8	287570	KIT, holder, gun	1
8a	287569	HOLDER, gun	1
8b	15F214	LEVER, actuator	1
8c	15F209	STUD, pull, trigger	1
8d	15F210	STUD, pivot	1
8e	15F211	STUD, cable	1
8f	102040	NUT, lock	4
14	245798	HOSE, 1/4 x 7 ft	11
17	245733	KIT, trigger handle repair	1
27	287417	HANDLE	1
44	15F212	ARM, support	1
46	111145	KNOB, pronged	1
47	15F213	BRACKET, cable	1
49	188135	GUIDE, cable	1
71	198895	PLATE, lever, pivot	2
72	198896	BLOCK, mounting (mach)	1
83▲	15F637	LABEL, skin injection	1
89▲	15A644	LABEL, trigger	1
96	15F624	NUT, cable, gun	2
104	119647	SCREW, cap, socket, flthd	2
105	119648	SCREW, mach tursshhd, cross recess	1
109	102478	STRAP, wiring tie	6
117	110837	SCREW, flange, hex	2
119	111017	BEARING, flange	2
121	111040	NUT, lock	2
136	287566	KIT, clamp, includes 136a	1
144	114659	GRIP, handle	2
160	116941	SCREW, shoulder, socket head	1
161	287696	CABLE, includes 96	1
162	116969	NUT, lock	2
163	116973	SCREW, #10 taptite phil	1
360	15F389	BRACKET, gun arm	1

▲ Replacement warning labels may be ordered free of charge

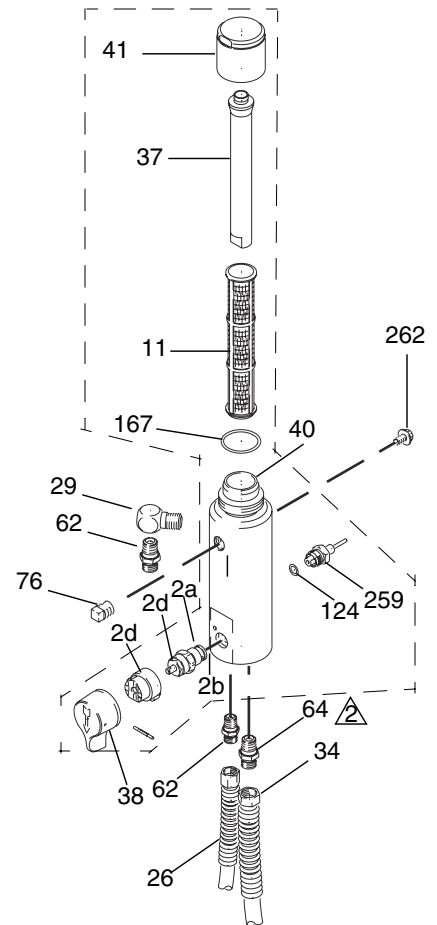
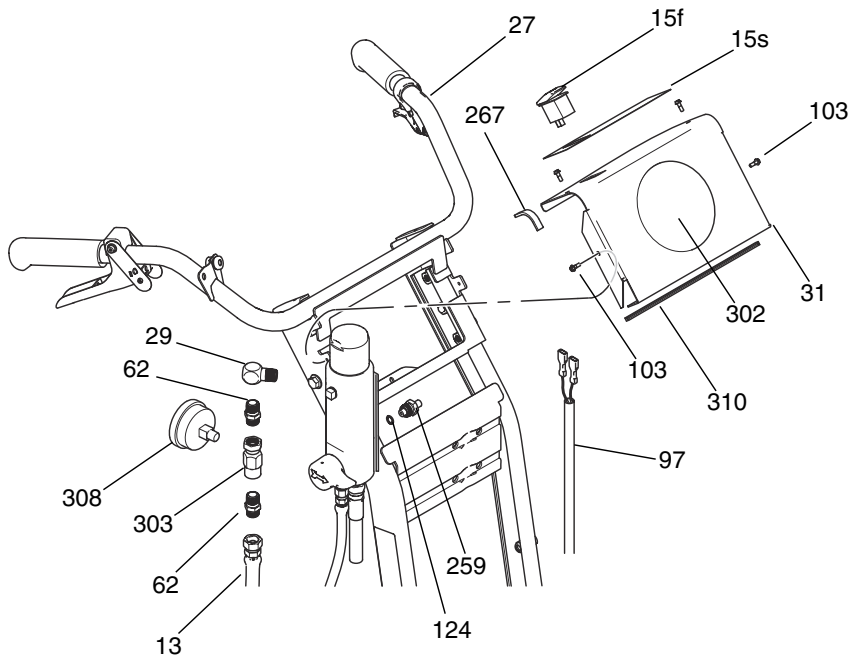
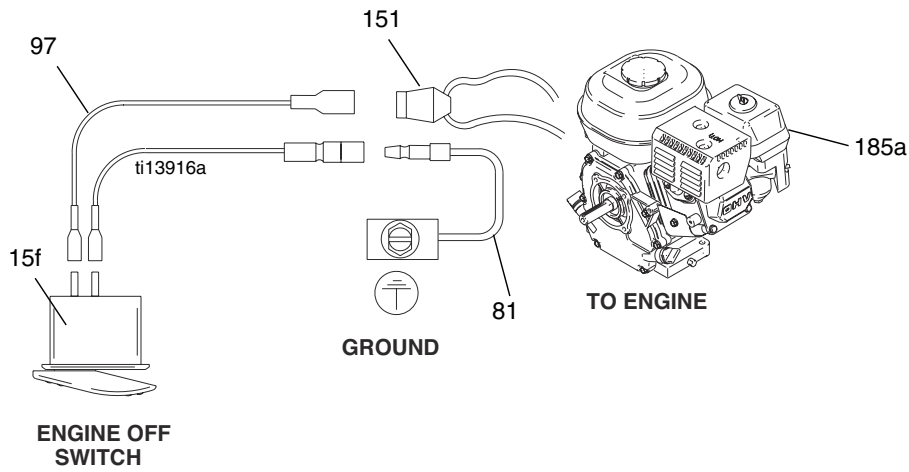
Notes

① Torque to 90-110 in-lb

② Torque to 10-20 ft-lb

Parts - LineLazer IV 130Hs

(Engine Control Wiring Diagram)



LineLazer IV 130Hs

Ref	Part	Description	Qty
2*	245103	VALVE, drain	1
2a	193709	SEAT, valve	1
2b	193710	SEAT, valve	1
2c	116424	NUT, cap	1
2d	114708	SPRING	1
11*	244067	FILTER, fluid	1
13	245225	HOSE, 3/8 in. x 50 ft	1
15f	114954	SWITCH, rocker	1
15s▲	15Y608	LABEL, control	1
26	245226	HOSE, coupled, 3/8 in.	1
27	287417	HANDLE	1
29	196179	FITTING, elbow, street	2
31	15Y465	COVER, control	1
34	287206	HOSE, suction/drain	1
37	15C766	TUBE, diffuser	1
38	15G563	HANDLE	1
40	15H561	MANIFOLD, filter, 3/8 npt	1
41	287285	KIT, repair, filter cap, includes 37, 167	1
62	196178	ADAPTER, nipple	2
64	196181	FITTING, nipple	1
76	104813	PLUG, pipe	1
97	112854	HARNESS, wiring	1
103	117501	SCREW	5
124	111457	O-RING	1
125	112303	SCREW, set, sch	1
167	117285	O-RING	1
259	15Y462	PLUG, filter	1
262	111801	SCREW, cap, hex	2
267	15F814	GASKET, handle	1
270	24B749	KIT, repair, filter, includes 2, 3, 11, 37, 38, 39, 40, 41, 124, 167, 259	1
302	15Y598	LABEL, brand	1
303	243683	ADAPTER (Model 257780)	1
308	115523	GAUGE (Model 257780)	1
310	123116	TRIM, rubber	1

▲ Replacement warning labels may be ordered free of charge

Notes

① Torque to 115-135 in-lb

② Torque to 130-150 ft-lb



LineLazer IV 130Hs

Ref	Part	Description	Qty	Ref	Part	Description	Qty
21	24B748	PUMP, displacement Manual 311845	1	183	15A726	NUT, jam	1
26	245747	HOSE, coupled, 3/8 in.	1	186	112342	BEARING, rod	1
32	287175	HOSE, hydraulic, supply	1	187	112561	PACKING, block	1
34	287206	HOSE, suction/drain	1	194	116551	RING, retaining	1
35	287176	HOSE, hydraulic, return	1	213	117283	O-RING	1
48	117328	FITTING, nipple, straight	1	217	117607	FITTING, elbow, std thd	2
60	196178	ADAPTER, nipple 3/8 in. x 3/8 in.	1	218	117608	FITTING, nipple, straight	1
69	246176	SLEEVE, hydraulic cylinder, includes 213	1	220	117739	WIPER, rod	1
92	193031	NUT, retaining	1	222	15Y463	BUSHING	1
107	117441	VALVE, ball	1	230	15H953	MANIFOLD, adapter	1
108	101566	NUT, lock	4	231	15B063	LABEL,	1
137	15F911	GUARD, pump rod	1	233	107210	SCREW, cap, socket head	4
138	106276	SCREW, cap, hex hd	1	235	15B804	LABEL, Graco Logo	1
149	119841	FITTING, tee, branch, str thd	1	243	178179	WASHER, sealing	1
159	155685	O-RING	1	244	178207	BEARING, piston	1
173	100139	PLUG, pipe	1	245	178226	SEAL, piston	1
174	102040	NUT, lock, hex	2	249	197443	PIN, pump	1
176	105765	O-RING	1	250	15F519	TUBE, hydraulic, supply	1
179	108014	O-RING	1	283	110982	SCREW, cap, hex head	1
183	15A726	NUT, jam	1	284	288758	KIT, repair, hydraulic motor	1
186	112342	BEARING, rod	1	285	288735	KIT, repair, trip rod, piston	1
				KITS			
				246174 KIT, repair, seal, hydraulic, includes 176, 186, 213, 220, 244, 245			

Notes

 Torque to 75 ft-lb

 Torque to 85-95 in-lb

 Torque to 150 ft-lb

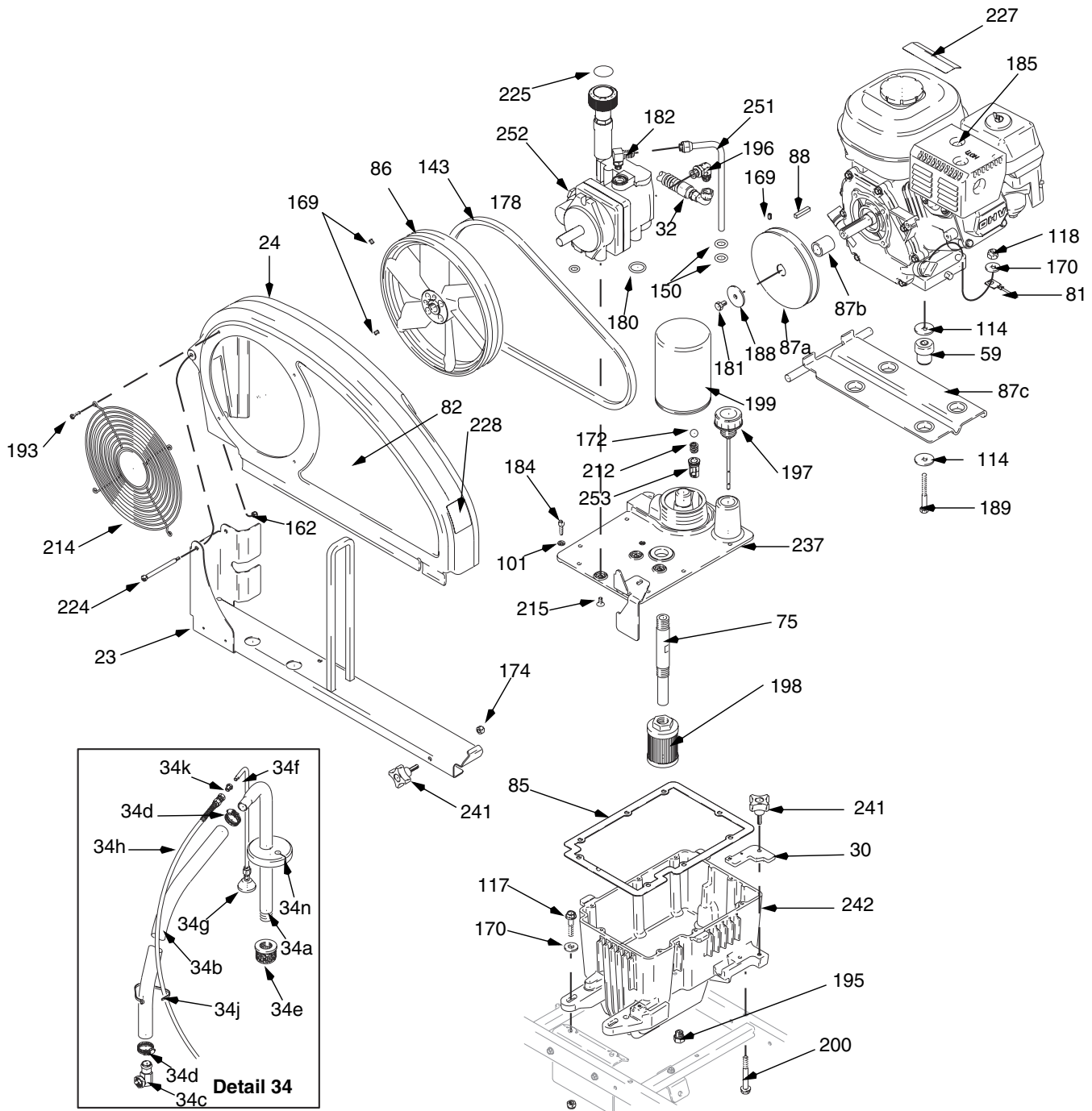
 Torque to 54-56 in-lb

 Torque to 40-44 ft-lb

 Torque to 40 ft-lb

 Torque to 25 ft-lb

LineLazer IV 130HS



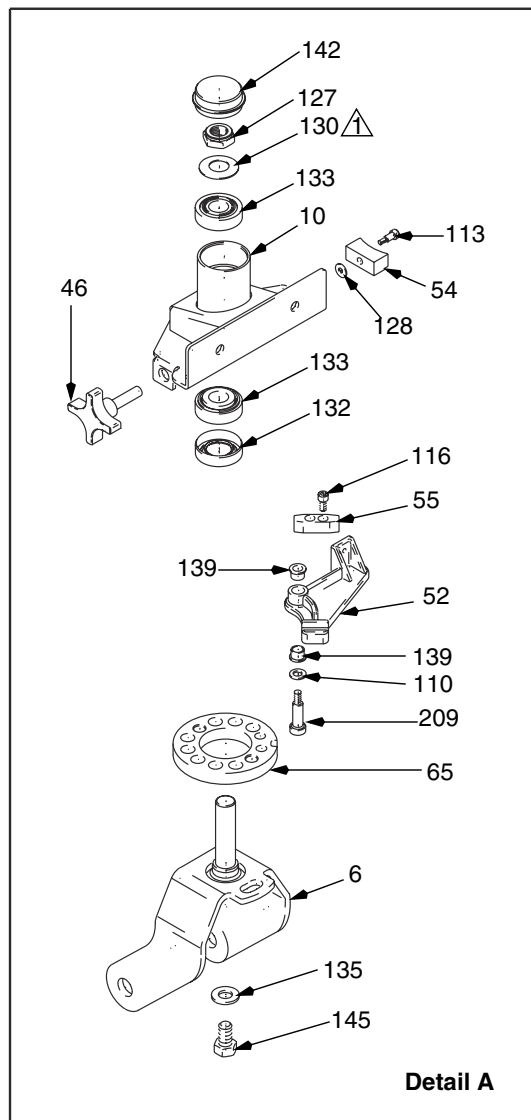
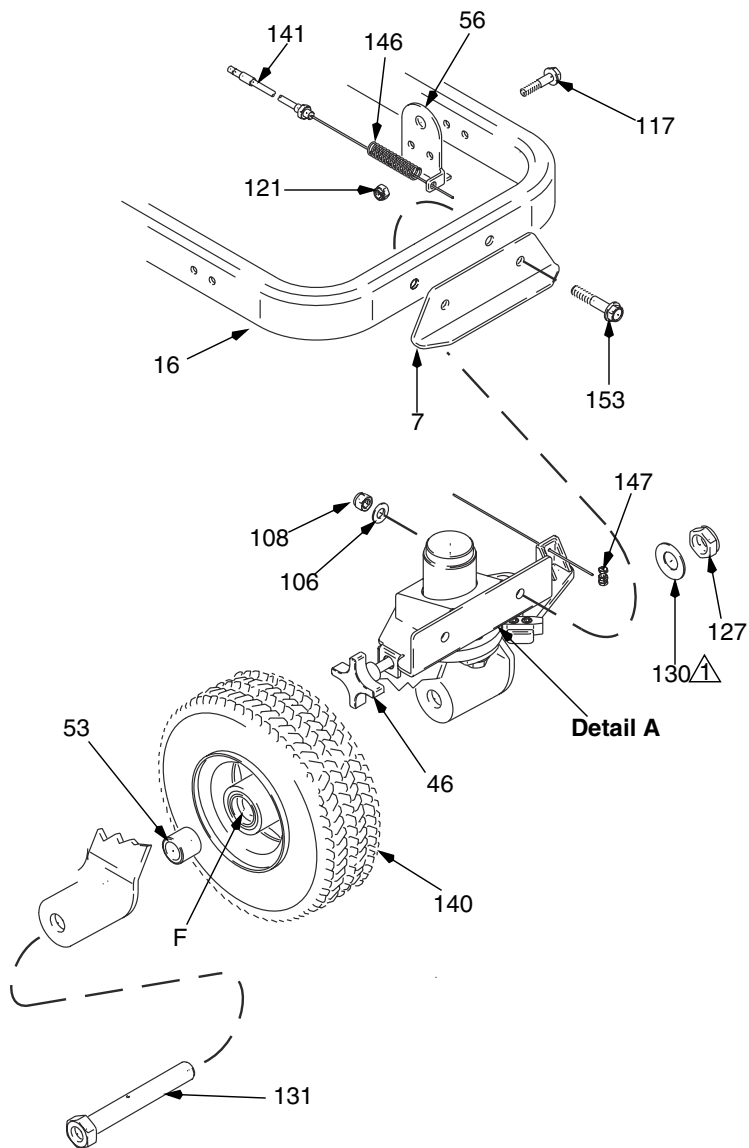
TI6493b

LineLazer IV 130HS

Ref	Part	Description	Qty	Ref	Part	Description	Qty
23	288261	RAIL, belt	1	198	116919	FILTER, hydraulic, suction	1
24	248973	GUARD, belt, includes: 162, 193, 214, 224, and 228	1	199	246173	FILTER, oil, spin on	1
30	15E476	BRACKET, retainer, motor	1	200	120981	SCREW, hex wash hd	2
32	287175	HOSE, hydraulic supply	1	212	116967	SPRING, compression	1
34	287206	HOSE, suction/drain	1	214	117284	GRILL, fan guard	1
34a	15F149	TUBE, suction	1	215	117471	SCREW, 1/4-20 flat hd mach	4
34b	194306	HOSE, fluid	1	224	119434	SCREW, shoulder, socket head	1
34c	198119	ELBOW, barbed	1	225	15A464	LABEL, control	1
34d	101818	CLAMP, hose	1	227▲	194126	LABEL, warning	1
34e	181072	STRAINER, inlet	1	228▲	198492	LABEL, warning	1
34f	198601	TUBE, drain	1	237	15M057	COVER, reservoir, GH130 LL	1
34g	241920	DEFLECTOR, threaded	1	241	15D862	NUT, hand	2
34h	248008	HOSE, coupled 1/4 in. x 4 ft.	1	242	15J513	TANK, reservoir	1
34j	114958	STRAP, tie	7	251	246167	TUBE, hydraulic, case drain, includes: 150	1
34k	196180	BUSHING	1	252	288733	PUMP, hydraulic	1
34m	195119	LABEL, warning (not shown)	1	253	198841	RETAINER, ball, press bypass	1
34n	15F513	GASKET, pail	1				
59	15E888	DAMPENER, motor mount	4				
75	15E587	TUBE, suction	1				
81	240997	CONDUCTOR, ground	1				
82▲	15Y464	LABEL, brand 130HS	1				
85	120604	GASKET, reservoir	1				
86	15E410	PULLEY, fan	1				
87a	116908	PULLEY, 5.50 diameter	1				
87b	15E759	SPACER, shaft, engine	1				
87c	15F485	BRACKET, engine mount	1				
88	117632	KEY, square, 3/16 x 1.25	1				
101	100016	WASHER	8				
114	108851	WASHER, plain	8				
117	110837	SCREW, flange, hex	10				
118	110838	NUT, lock	4				
143	119433	BELT, vee, gripnotch	1				
150	154594	O-RING	2				
151	114956	TERMINAL, wire tap, insulated	1				
162	116969	NUT, lock	2				
169	100002	SCREW, set, sch	3				
170	100023	WASHER, flat	6				
172	100084	BALL, metallic	1				
174	102040	NUT, lock	1				
178	107188	O-RING	1				
180	156401	O-RING	1				
181	108842	SCREW, cap, hex head	1				
182	110792	ELBOW, male, 90 degree	1				
184	112166	SCREW, cap, sch	15				
185	248943	KIT, engine, gas, 5.5 hp, Honda, includes: 59, 87, 88, 98, 114, 118, 169, 170, 181, 185a, 188, 189, 227 and 234	1				
185a	120590	ENGINE, gas, 4.0 hp, Honda	1				
188	112717	WASHER,	1				
189	113664	SCREW, flange, hex	4				
193	115477	SCREW, mach, torx pan hd	4				
195	101754	PLUG, hex head, hydraulic	1				
196	116793	FITTING, elbow, hydraulic	1				
197	116915	CAP, breather filler	1				

▲ Replacement warning labels may be ordered free of charge

LineLazer IV 130HS



TI6492b

LineLazer IV 130HS

Ref	Part	Description	Qty	Ref	Part	Description	Qty
6	240942	SHAFT, fork	1				
7	240991	BRACKET, caster, front	1	128	112776	WASHER, plain	1
10*	15G952	BRACKET, hub	1	130	112825	SPRING, Belleville	3
16	287623	FRAME, linestriper, painted	1	131	113471	SCREW, cap, hex hd	
46	181818	KNOB, pronged	1	132*	113484	SEAL, grease	1
52	193528	ARM, detent	1	133*	113485	BEARING, cup/cone	2
53	193658	SPACER, seal	2	135	113962	WASHER, hardened	1
54	193661	JAW	2	139	114548	BEARING, bronze	2
55	193662	STOP, wedge	1	140	114549	WHEEL, pneumatic	1
56	15F910	BRACKET, cable	1	141	241445	CABLE	1
65	198606	DISK, adjuster	1	142	114648	CAP, dust	3
106	100731	WASHER	2	145	114681	SCREW, cap, hex hd	1
108	101566	NUT, lock	2	146	114682	SPRING, compression	1
110	15J603	WASHER, plain	1	147	114802	STOP, wire	1
113	108483	SCREW, shoulder, soc, hd	1	153	114982	SCREW, cap, flng, hd	2
116	110754	SCREW, flange, hex	10	154*	120476	BOLT	1
121	111040	NUT, lock	2				
127	112405	NUT, lock	4				

*Included in 240940 Bracket Repair Kit; purchase separately.

Notes

 Install washers (130) concave surface to inside

Technical Data

Honda GX160 Engine

Power Rating @ 3600 rpm	
ANSI	4.0 Horsepower
Maximum working pressure	3300 psi (227 bar, 22.7 MPa)
Noise Level	
Sound power	103 dBa, per ISO 3744
Sound pressure	88 dBa, measured at 3.1 feet (1 m)
*Vibration Level	
Left hand	2.90 m/sec ²
Right hand	2.83 m/sec ²
* Vibration measured per ISO 5349 based on 8 hour daily exposure	
Cycles/gallon (liter)	104 (27.5)
Maximum delivery	1.3 gpm (5.9 liter/min)
Maximum tip size	
1 gun	with 0.037 in. tip
Inlet paint strainer	16 mesh (1190 micron) stainless steel screen, reusable
Outlet paint strainer	60 mesh (250 micron) stainless steel screen, reusable
Pump inlet size	1 in. npsm(m)
Fluid outlet size	3/8 npt(f)
Hydraulic reservoir capacity	1.25 gallon (4.73 liters)
Hydraulic pressure	1510 psi (104 bar)
Weight (dry, without packaging)	242 lb (110 kg)
Height	40 in. (101.6 cm)
Length	65 in. (165.1 cm)
Width	32 in. (81.3 cm)
Wetted parts	PTFE, Nylon, polyurethane, V-Max™ UHMWPE polyethylene, fluoroelastomer, acetal, leather, tungsten carbide, stainless steel, chrome plating, nickel-plated carbon steel, ceramic

Accessories

Must be purchased separately.

GRACO-APPROVED HYDRAULIC OIL

169236	5 gallons (19 liters)
207428	1 gallon (3.8 liters)

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

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This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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Graco does provide extended warranty and wear warranty for products described in the "Graco Contractor Equipment Warranty Program".

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TO PLACE AN ORDER, contact your Graco distributor or call 1-800-690-2894 to identify the nearest distributor.

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Original instructions. This manual contains English. MM 313776

Graco Headquarters: Minneapolis
International Offices: Belgium, China, Japan, Korea

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