



INSTALLATION INSTRUCTIONS

51533691

JOYSTICK STEERING KIT WITH SECONDARY ELECTRIC STEERING

APPROXIMATE INSTALLATION TIME: 4.0 hours

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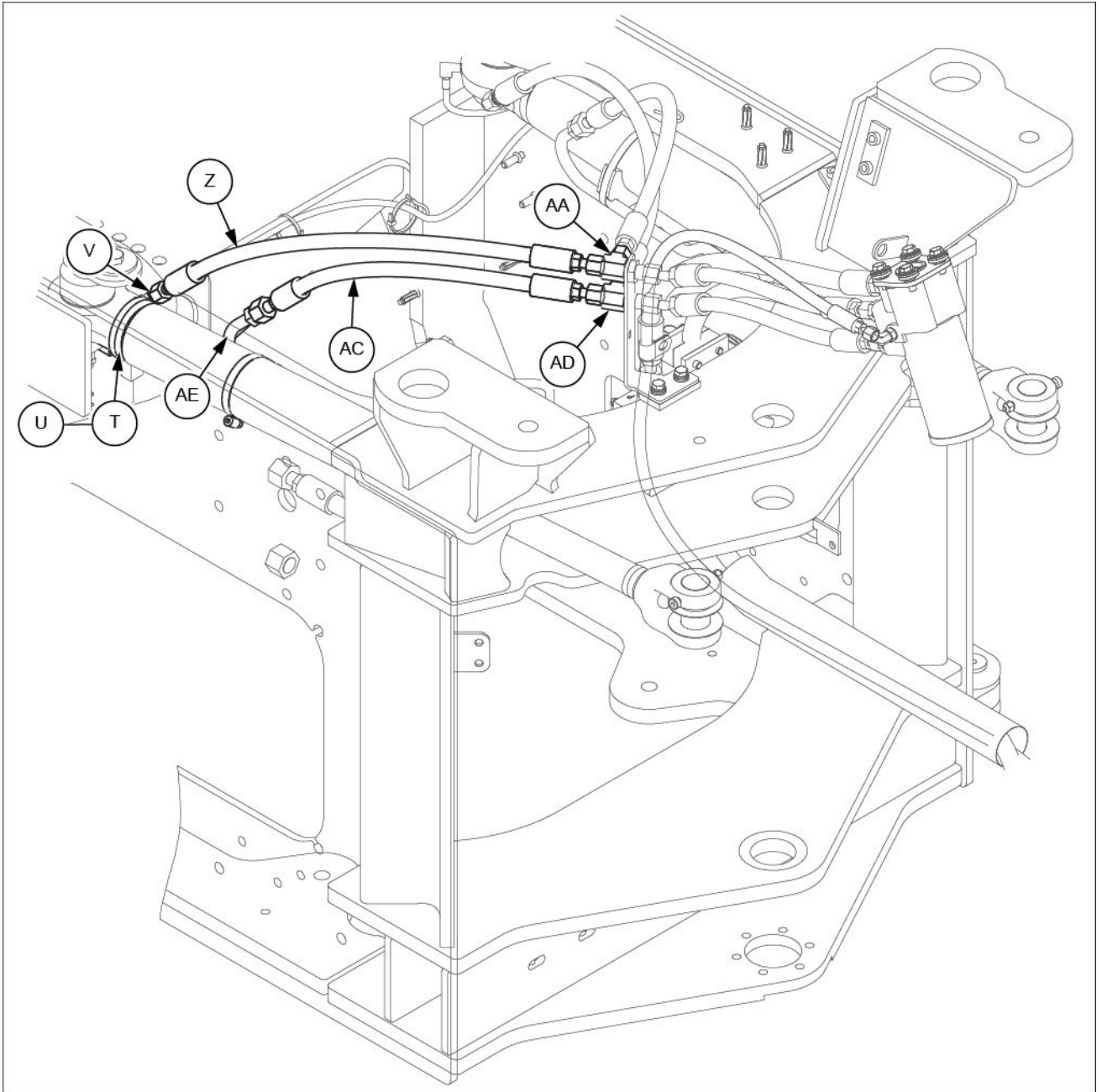
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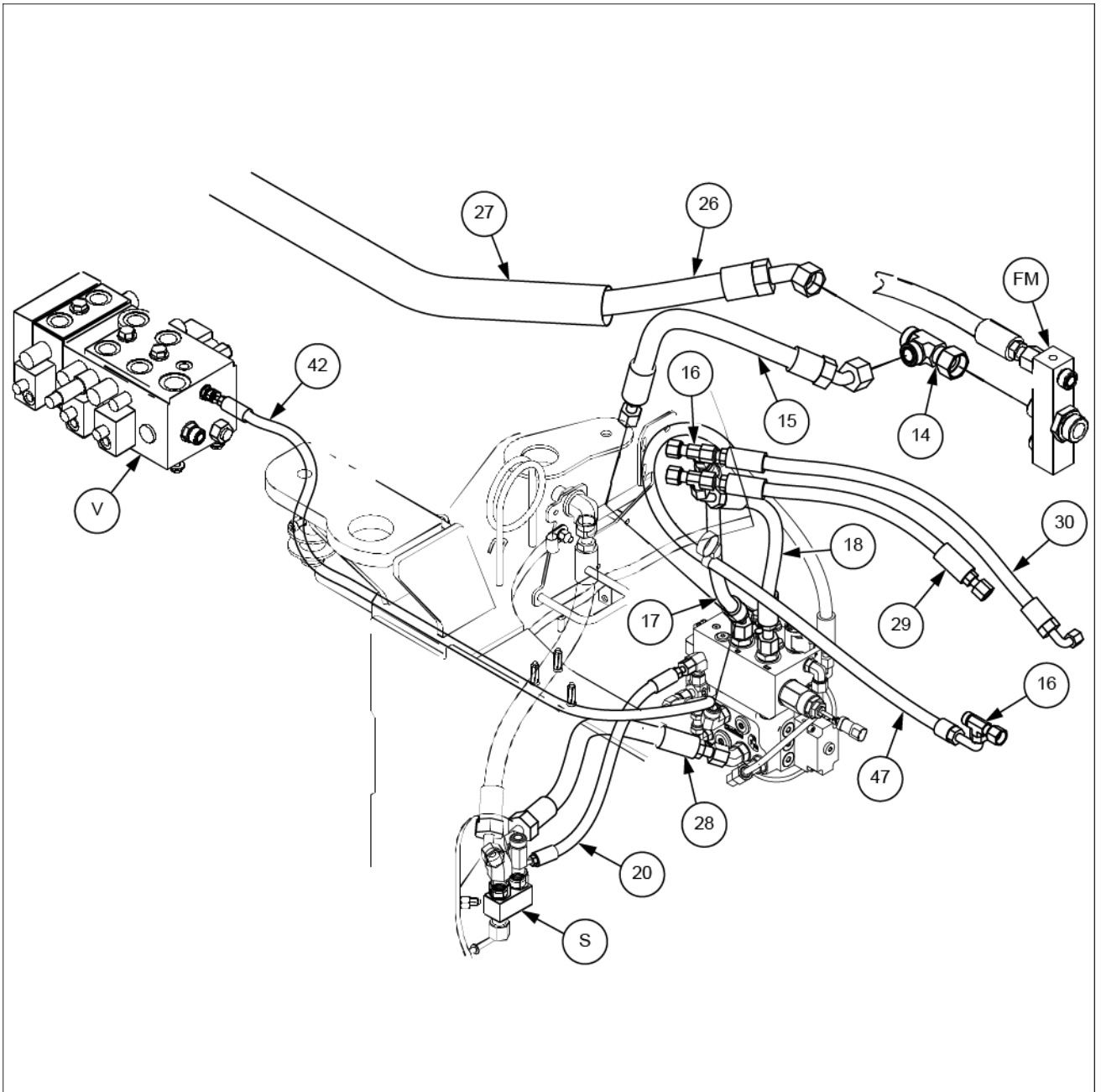
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8. Locate the right-hand steering cylinder area. Remove and discard the clamp (**T**), the block (**U**) and the o-ring (**V**).
9. Disconnect and remove the hose (**Z**) at the union tee (**AA**).
10. Disconnect and remove the hose (**AC**) at the union tee (**AD**) and from the right-hand cylinder tube (**AE**).
11. Discard the hoses (**Z**) and (**AC**).



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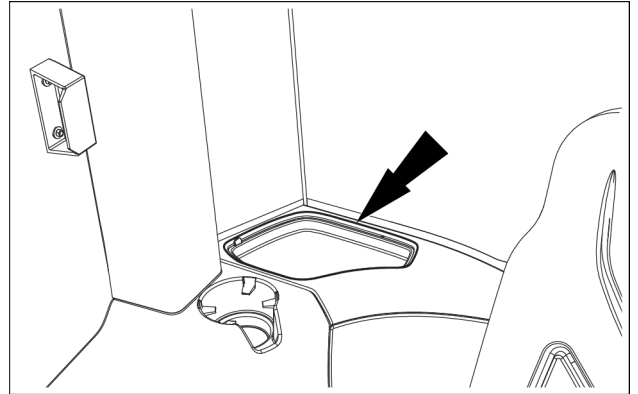
5 - ASSEMBLY



LEIL19WHL0652GB 7

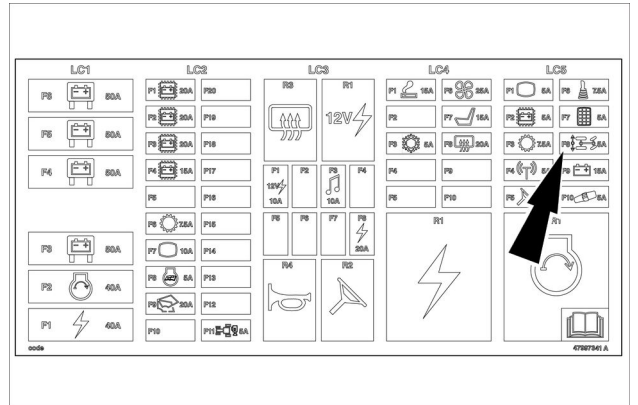
Fuse installation

1. Behind the operator seat, remove the cover and locate the LC5 fuse box.

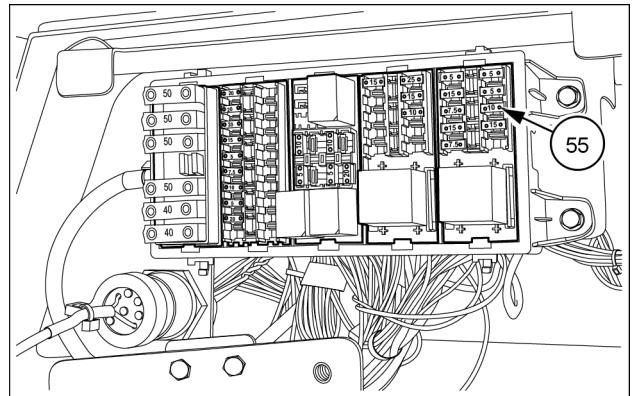


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2. Install the fuse **5 A (55)** to the F8 position



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12. To confirm, select "SEND MODIFIED VALUES TO CONTROLLERS" to update the machine with the new values.

Electronic Service Tool - Case - Wheel Loaders (Models 521G, 621G, 721G, 821G, 921G, 1021G, 1121G) (Tier 4B / Tier 2)

File Tool View Communications Options Window Help

MACHINE CONFIGURATIONS

CONFIGURATION ITEM
Color Display Modu
Engine Dataset Reg
Engine Hours Conf
Engine Restart Cou
Engine Status And I
Machine Configurati
Maintenance Interv
Replacement of Cab
Replacement of the
Replacement of the
Replacement of the
Replacement of the
Replacement of the

SET UP CONTROLLERS

RETRIEVE CONTROLLERS VALUES

SEND MODIFIED VALUES TO CONTROLLERS

STATUS: **READY TO SEND**

REFERENCE	PARAMETER DESCRIPTION	CURRENT VALUES	MODIFIED VALUES
01	Brand	Case	Case
02	Vehicle Model	721G	721G
03	Launch Gear	2	2
04	Linkage Type	Z-Bar	Z-Bar
05	Hydraulics Type	Electro-Hydraulic	Electro-Hydraulic
06	Tire Size	Special	Special
07	Set Tire Circumference (cm)	349	349
08	Aux 1 Hydraulics	Installed	Installed
09	Aux 2 Hydraulics	Installed	Installed
10	Grid Heater	Installed	Installed
11	Joystick Steering Enable	Installed	Installed
12	Auto Ride Control	Installed	Installed

SAVE DATA TO FILE

EXIT

LEIL17WHL0435FB 13

13. Select "EXIT" to return to the main menu, follow prompts.
14. Disconnect the EST from Diagnostic Connector.
15. Turn the key switch to "OFF" position.

NOTE: wait 5 seconds before the next turn of the key switch to "ON" position.

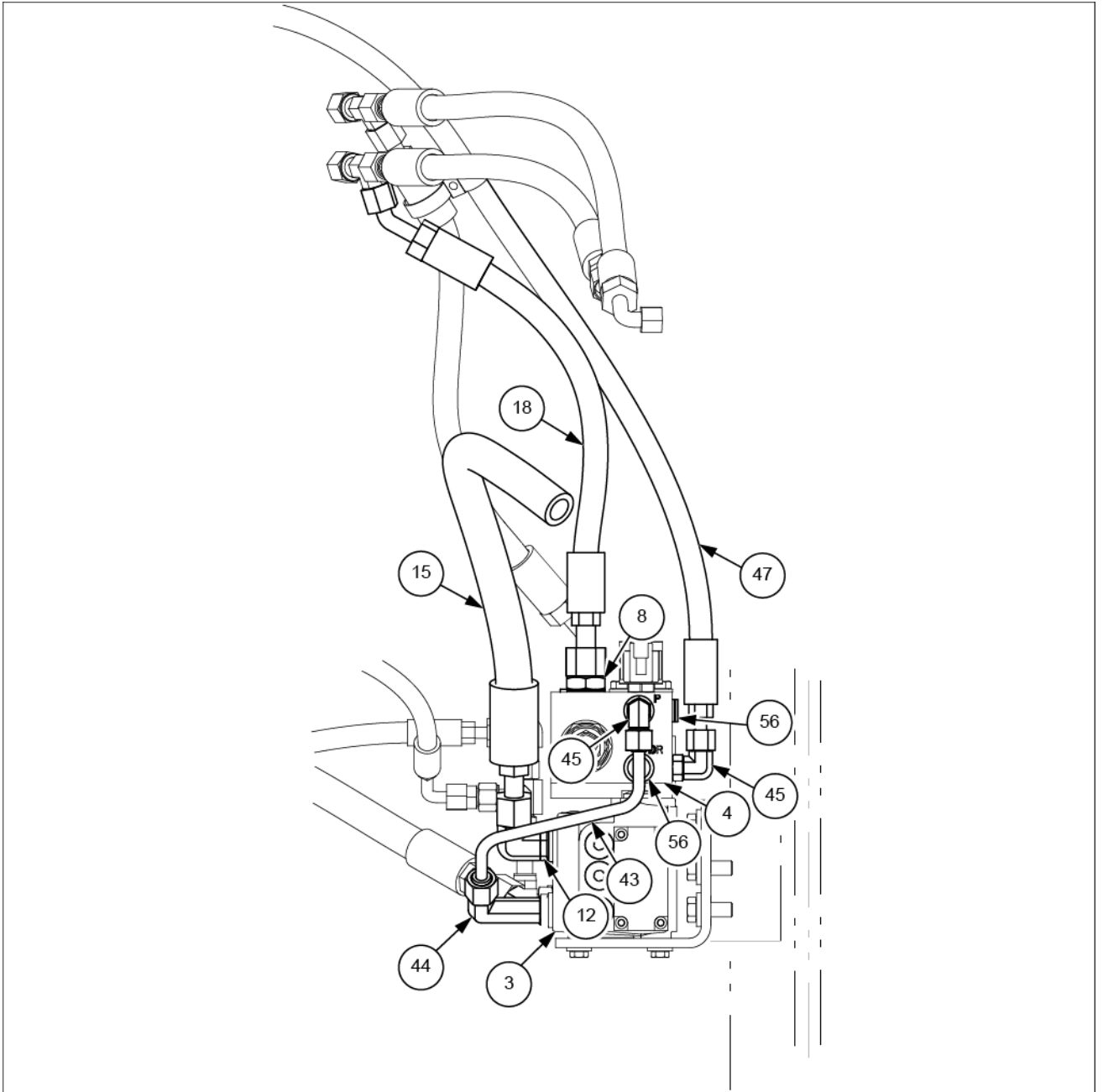
▲ AVERTISSEMENT

Danger d'écrasement !

Engagez l'articulation du verrou de sécurité avant toute opération d'entretien ou de transport.

Le non-respect de ces instructions pourrait entraîner des blessures graves, voire mortelles.

W1154A

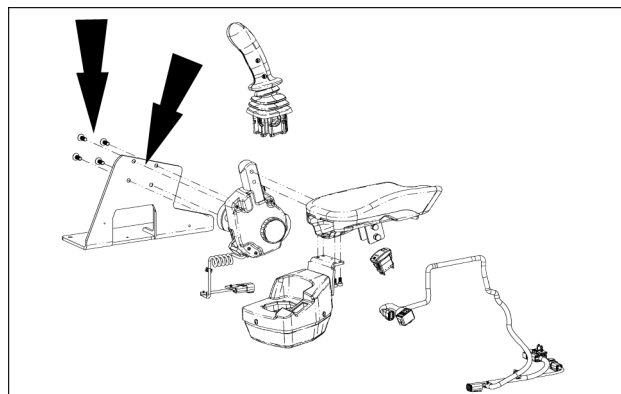


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Installation de l'accoudoir du siège GRAMMER

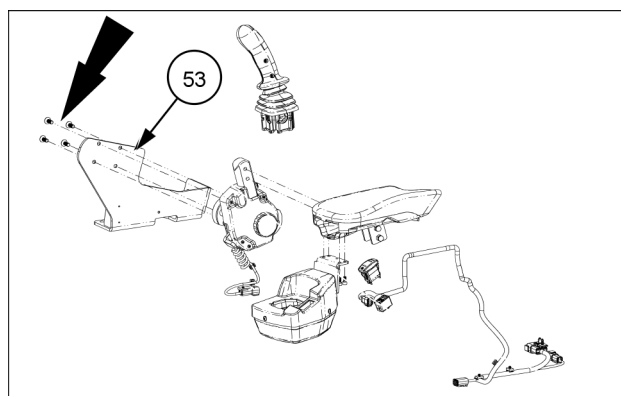
REMARQUE: L'accoudoir de direction par manette est muni de support MILSCO installé sur l'accoudoir. Il est nécessaire de le remplacer avec le support GRAMMER.

1. Du côté gauche du siège, déplacer le couvercle du tampon en plastique, puis démonter le tampon et le support en retirant le matériel de fixation. Jeter le tampon et le matériel de fixation.
2. Déposer le support MILSCO de l'accoudoir en retirant les quatre vis de fixation. Jeter le support MILSCO.



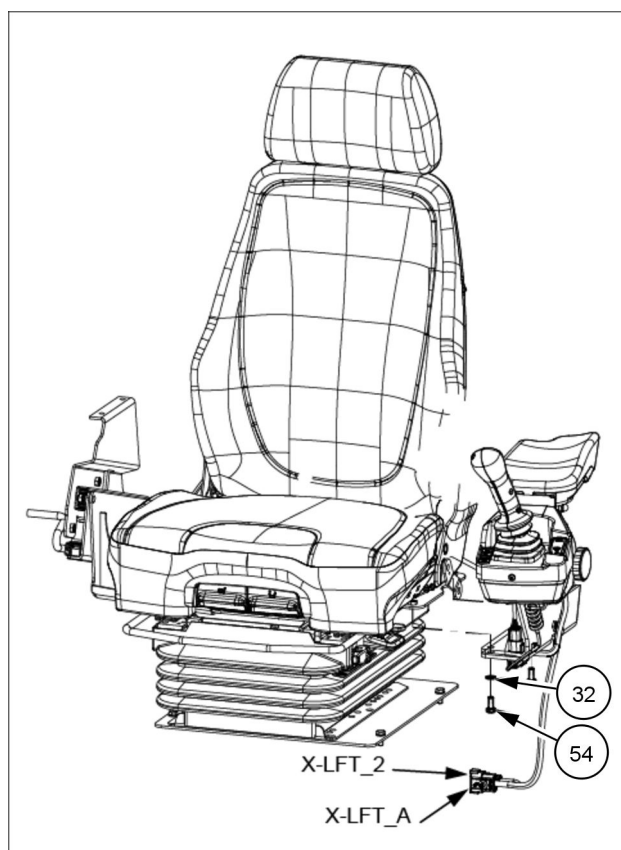
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3. Poser le support GRAMMER (53) sur l'accoudoir en réutilisant les mêmes quatre vis de fixation.



LEIL17WHL1313AB 15

4. Installer la mise à jour de l'accoudoir de la manette à l'aide des trois boulons de fixation M8x20 (54) et des trois rondelles 9x16x1.6 (32).
5. Brancher le connecteur du faisceau X-LFT_A au connecteur du toit de la cabine existant CAB_L et le connecteur du faisceau X-LFT_2 au connecteur du toit de la cabine existant CAB_L2 situé derrière le siège.



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9. Sélectionner « Configuration ».

CONTROLLER	HARDWARE VERSION	SOFTWARE VERSION	COMMUNICATION STATUS
ECM Engine Control Module			ON LINE
GDSP Color Display Module	5.1.0.0	1.3.0.0	ON LINE
KEYPD Key Pad	48.49.255.255	01.00.00.00	ON LINE
SFB Smart Fuse Box	1.0.0.1	1.0.0.0	ON LINE
TECM Transmission Controller			ON LINE
UCM Universal Control Module	2.0.0.0	1.0.0.0	ON LINE

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2 - SATZINHALT

Übersicht Montagesatz

HINWEIS: Die Teilenummern der Artikel in diesem Satz können dem Teilekatalog entnommen werden.

HINWEIS: in der folgenden Tabelle sind die Teile aufgeführt und wie in der Montageanleitung nummeriert.

Pos.	Beschreibung	Menge
2	JSS Ventilhalterung	1
3	Lenkventil EHPS	1
4	JSS Absperrventil	1
5	Unterlegscheibe 11x21x2.5	6
6	Schraube M10x105	6
7	90° -Winkelstück	1
8	Gerader Steckverbinder	2
9	Schwenkverbindung	1
10	Hydraulisches T-Wechselventil	1
11	90° -Winkelstück	1
12	90° -Winkelstück	1
13	45° -Winkelstück	1
14	T-Stück	1
15	Hydraulikschlauch 655 mm (25.8 in)	1
16	T-Stück	3
17	Zylinder Hydraulikschlauch 500 mm (19.7 in)	1
18	Zylinder Hydraulikschlauch 467 mm (18.4 in)	1
19	T-Stück	1
20	JSS Lastmessschlauch 545 mm (21.4 in)	1
21	Unterlegscheibe 13.5x28x4	3
22	Schraube M12x30	3
23	Unterlegscheibe 9x21x2.5	3
24	Schraube M8x20	3
25	Drehbares 90° -Winkelstück	1
26	Ventilrücklaufschlauch 1490 mm (58.7 in)	1
27	Schlauchmuffe 60x1200	1
28	JSS-Ventildruckschlauch 665 mm (26.2 in)	1
29	Stabschlauch rechts Lenkung 475 mm (18.7 in)	1
30	Basisschlauch rechts Lenkung 664 mm (26.1 in)	1
31	JSS Halterung des Joysticklenkungssensors	1
32	Unterlegscheibe 9x16x1.6	7
33	Schraube M8x10	4
34	Lenkwinkelsensor	1
35	Mutter M10	3
36	Lenkpumpenisolator	1
37	Gummibuchse	4
38	Stahlbuchse	4
39	Sicherungsscheibe M10x22	4
40	Schraube M10x30	4
41	Sprungstück	1
42	Lenkungslastmessschlauch 1461 mm (57.5 in)	1
43	Hydraulikleitung Joysticklenkung 140.2 mm (5.5 in)	1
44	Langes 90° -Winkelstück	1
45	90° -Winkelstück	2
46	Doppelkabelbinder	2
47	Schlauch zwischen Absperrventil und Tank 1650 mm (65 in)	1
48	JSS-Rahmenkabelbaum	1
49	Kabelbinder	14

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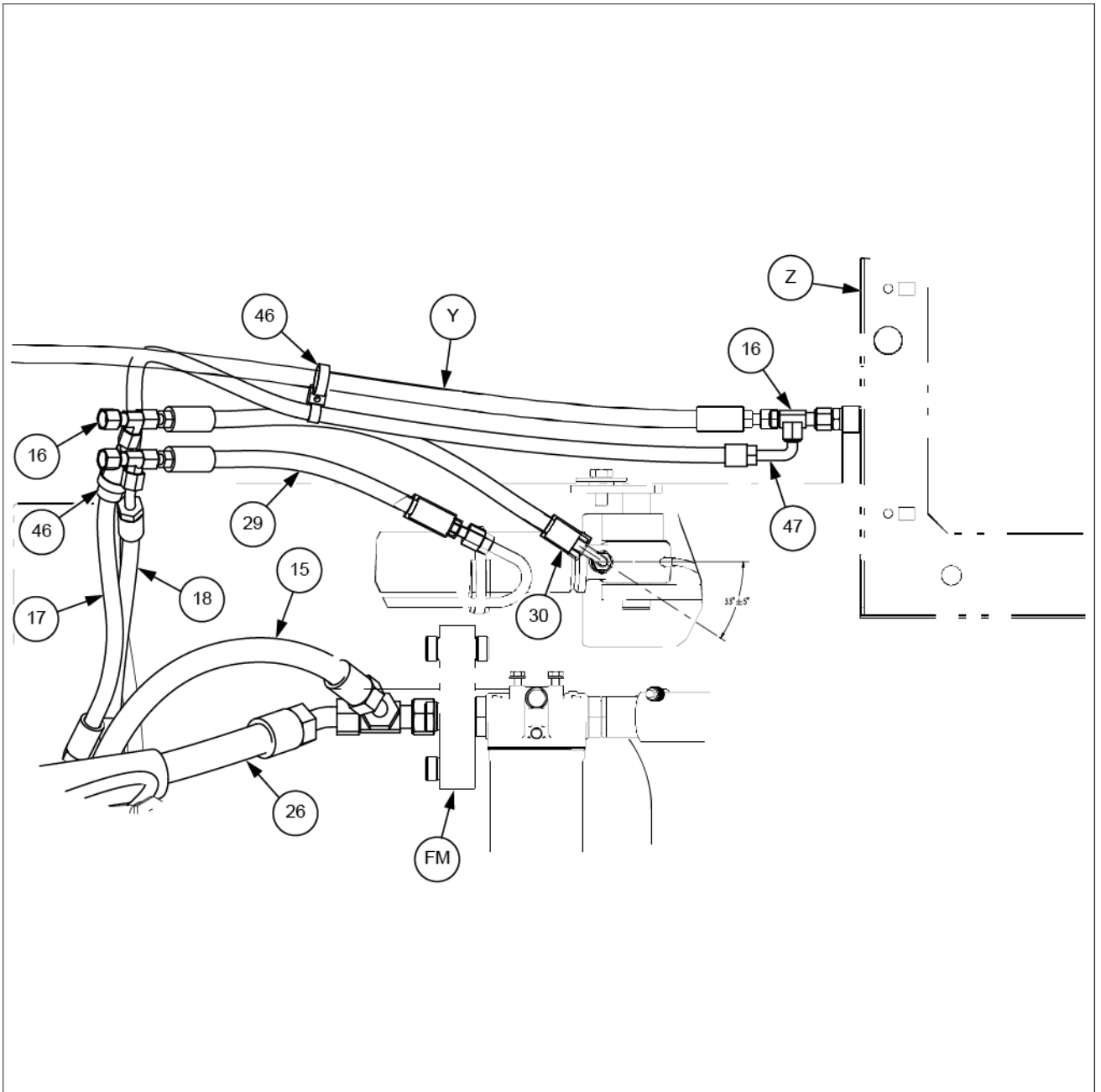
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5. Montieren Sie das lange **90°-Winkelstück (44)** am Anschluss PS des EHPS-Lenkventils **(3)**.
6. Montieren Sie das **45°-Winkelstück (13)** am Anschluss P des EHPS-Lenkventils **(3)**.
7. Montieren Sie das **90°-Winkelstück (12)** am Anschluss T des EHPS-Lenkventils **(3)**.
8. Montieren Sie das **90°-Winkelstück (7)** am Anschluss LS des EHPS-Lenkventils **(3)**.
9. T-Verbindung **(9)** am **90°-Winkelstück (7)** montieren.
10. Montieren Sie das hydraulische T-Wechselventil **(10)** an der T-Verbindung **(9)**.
11. Montieren Sie das schwenkbare **90°-Winkelstück (11)** am hydraulischen T-Wechselventil **(10)**.
12. Das Sprungstück **(41)** am hydraulischen T-Wechselventil **(10)** montieren.



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4. Das Hauptsteuergerät und das Sicherheitssteuergerät sollen On Line sein.
Wählen Sie das Konfigurationssymbol.

Electronic Service Tool - Case - Wheel Loaders (Models 512G, 621G, 721G, 821G, 921G, 1021G, 1121G) (Tier 4B / Tier 2)

File Tool View Communications Options Utilities Window Help

CONTROLLER STATUS - CAN Diagnostic Connector - Steering

CONTROLLER	SOFTWARE VERSION	COMMUNICATION STATUS
JOY Primary Implement Joystick		ON LINE
MC Main Controller	APP_CLS_M_R197_SEHS ----_11153340_-B04	ON LINE
SASA Steering Wheel Sensor		ON LINE
SC Safety Controller	APP_CLS_S_R197_SEHS ----_11153341_-B04	ON LINE

RETRIEVE VERSION INFORMATION FOR THE SELECTED CONTROLLER

RETRIEVE VERSION INFORMATION FROM ALL CONTROLLERS

Activate Configuration Window

CAN 2 Comm Link Up 11:13:10 AM



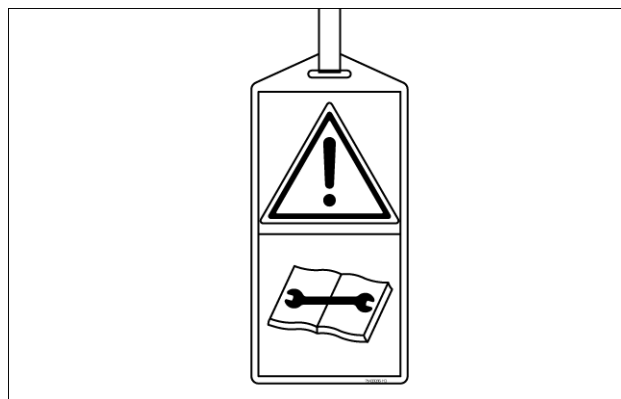
ISTRUZIONI DI INSTALLAZIONE

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KIT STERZO A JOYSTICK CON STERZO ELETTRICO SECONDARIO

TEMPO DI MONTAGGIO APPROSSIMATIVO: 4.0 ore

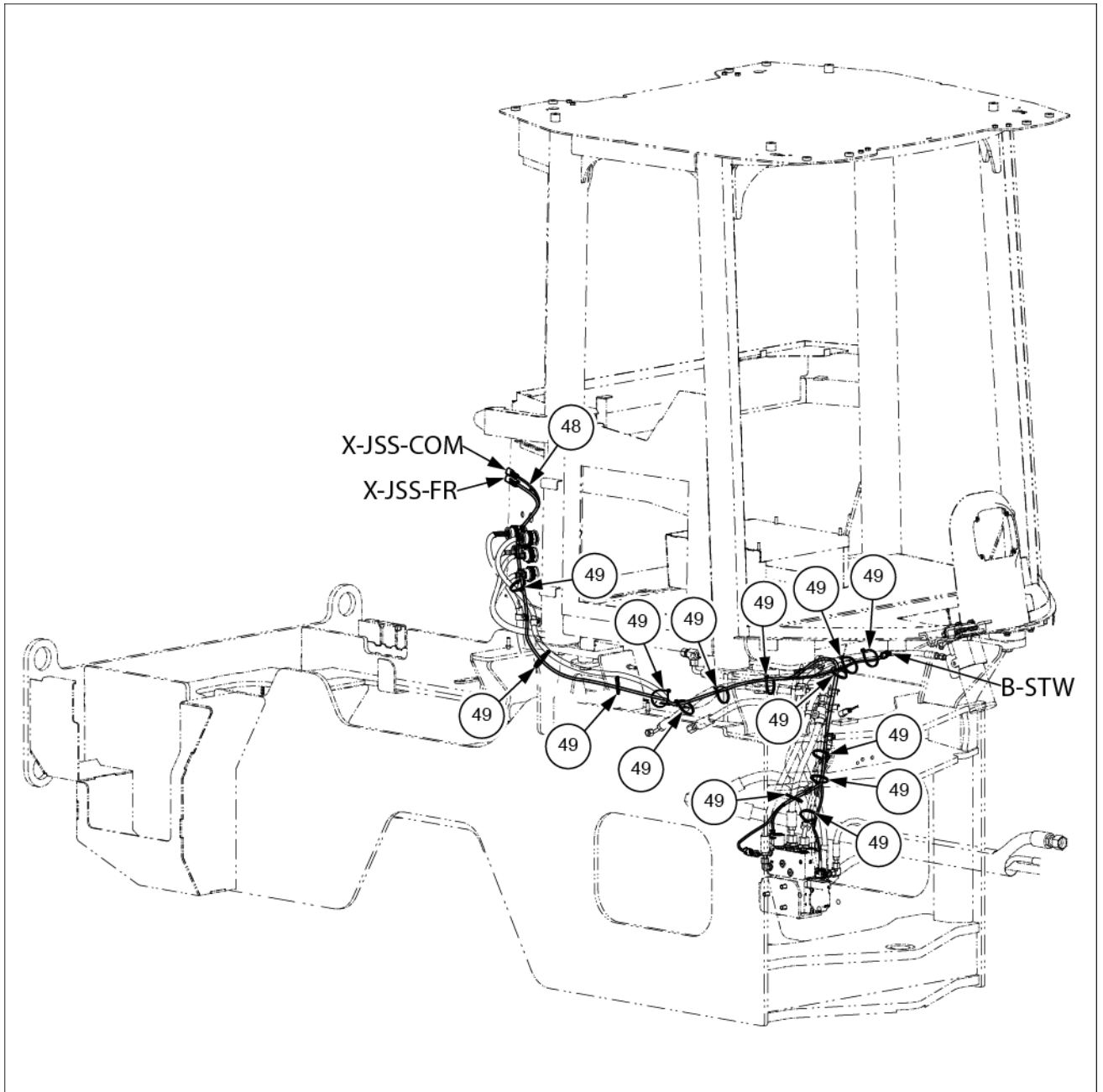
7. Apporre un cartello di manutenzione con la scritta "FUORI SERVIZIO". Questo cartello può essere affisso allo sportello della cabina.



SP0043 4

26. Montare il tubo flessibile di rilevamento del carico dello sterzo **(42)** al distributore principale **(V)**.
27. Montare il raccordo a T **(14)** sul collettore **(FM)**.
28. Montare il tubo flessibile idraulico del serbatoio **(15)** sul raccordo a T **(14)**.
29. Montare il tubo flessibile di ritorno della valvola **(26)** al raccordo a T **(14)**.
30. Orientare il tubo flessibile di ritorno della valvola **(26)** attraverso il manicotto **(27)** e collegarlo al gomito **(M1)** montato sulla linea di ritorno della valvola principale **(V)**.
31. Montare i due raccordi a T **(16)** sui giunti a T **(AA)** e **(AD)**.
32. Collegare i tubi flessibili del cilindro **(17)** e **(18)** al raccordo a T **(16)**.
- 33.
34. Montare il tubo flessibile del cilindro stelo destro di sterzo **(29)** tra il raccordo a T **(16)** e il tubo del cilindro **(CT)**.
35. Montare il tubo flessibile del cilindro base destro di sterzo **(30)** tra il raccordo a T **(16)** e la base del cilindro.
36. Montare il gomito a **90°** **(25)** e il raccordo a T **(19)** sull'elettrovalvola **(S)**.
37. Montare il tubo flessibile di pressione valvola JSS **(28)** sul raccordo a T **(19)**.
38. Montare il tubo flessibile di rilevamento carico JSS **(20)** sull'elettrovalvola **(S)**.
39. Montare il tubo flessibile di pressione sterzo ausiliario **(F)** sul gomito a **90°** **(25)**.
40. Montare il raccordo a T **(16)** sul telaio di raffreddamento **(Z)**.
41. Montare la valvola di esclusione sul flessibile del serbatoio **(47)** e il freno di ritorno al tubo flessibile idraulico del serbatoio **(Y)** sul raccordo a T **(16)**.
42. Fissare la valvola di esclusione al flessibile idraulico del serbatoio **(47)** sul freno del tubo flessibile del serbatoio **(Y)** e al flessibile del cilindro **(17)** con due fascette serrafili **(46)**.

2. Sulla valvola Orbitrol, individuare il sensore di posizione e collegarlo al connettore del cablaggio B-STW.
3. Rimuovere il terminatore CAN esistente da X-JSS_CAN e gettarlo.
4. Collegare il connettore del cablaggio X-JSS_FR al cablaggio della cabina (X-CAB_JSS).
5. Collegare il connettore del cablaggio X-JSS_COM al cablaggio della cabina (X-JSS_CAN).
6. Fissare il cablaggio del telaio del joystick (**48**) con le fascette serrafili (**49**).



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11. Selezionare “SET UP CONTROLLERS” (CONFIGURA CENTRALINE), quindi selezionare “installed” (installa)

Electronic Service Tool - Case - Wheel Loaders (Models 521G, 621G, 721G, 821G, 921G, 1021G, 1121G) (Tier 4B / Tier 2)

File Tool View Communications Options Window Help

MACHINE CONFIGURATIONS

SET UP CONTROLLERS

RETRIEVE CONTROLLERS VALUES

SEND MODIFIED VALUES TO CONTROLLERS

STATUS: RETRIEVING COMPLETE

REFERENCE	PARAMETER DESCRIPTION	CURRENT VALUES	MODIFIED VALUES
01	Brand	Case	Case
02	Vehicle Model	721G	721G
03	Launch Gear	2	2
04	Linkage Type	Z-Bar	Z-Bar
05	Hydraulics Type	Electro-Hydraulic	Electro-Hydraulic
06	Tire Size	Special	Special
07	Set Tire Circumference (cm)	349	349
08	Aux 1 Hydraulics	Installed	Installed
09	Aux 2 Hydraulics	Installed	Installed
10	Grid Heater	Installed	Installed
11	Joystick Steering Enable	Installed	Installed
12	Auto Ride Control	Installed	Not Installed Installed

SAVE DATA TO FILE

EXIT

3 - INFORMACIÓN GENERAL

Instrucciones básicas

ANTES DE COMENZAR EL MONTAJE, LEA TODAS LAS INSTRUCCIONES.

Las referencias de derecha e izquierda deben entenderse como si estuviésemos de pie detrás de la máquina, mirando en el sentido de la marcha.

NOTA: Al consultar las instrucciones para ver las llamadas, los números (por ejemplo: **(1)**) se refieren al componente **(1)** del kit de materiales. La letra (ejemplo: **(A)**) indica el componente de la unidad, no a un componente del kit de materiales.

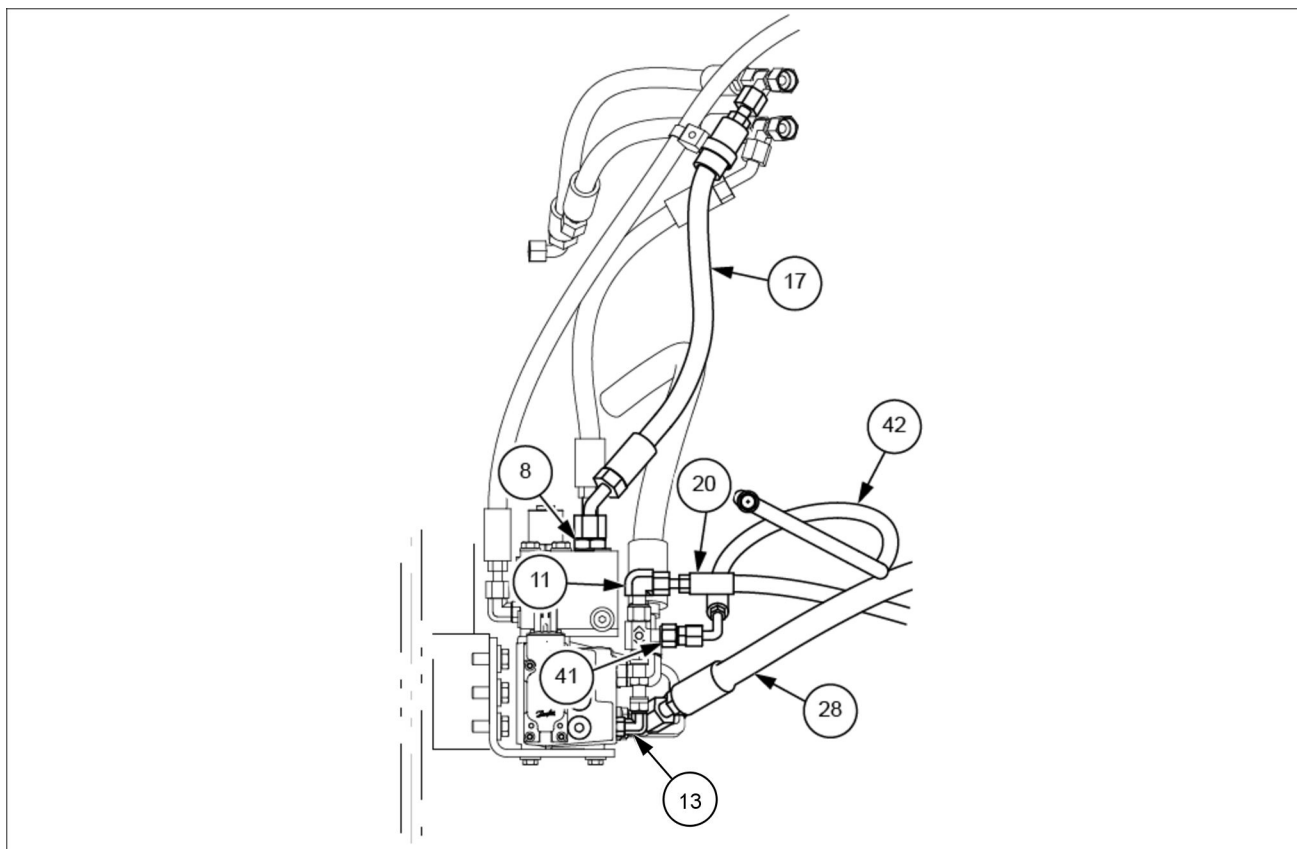
AVISO: No apriete la tornillería hasta que se indique en las instrucciones de montaje.

AVISO: Utilice la tornillería especificada, ya que intentar instalar un perno métrico en una rosca de calibre en pulgadas o viceversa, se dañarán las roscas.

NOTA: Instale arandelas planas en los orificios con ranuras, a menos que se utilicen pernos con cabeza de refuerzo o alomados. Instale una arandela de bloqueo en todos los pernos, a menos que se especifique una contratuerca o una tuerca autoblocante.

NOTA: Instale arandelas endurecidas especiales donde se especifique.

13. Instale la manguera de presión de la válvula JSS (28) al codo de 45° (13).
14. Instale la manguera de detección de carga de dirección (42) en la unión puente (41).
15. Instale la detección de carga JSS (20) al codo de giro de 90° (11).
16. Instale el conector recto (8) en el puerto C1 de la válvula de corte JSS (4).
17. Instale la manguera hidráulica del cilindro (17) en el conector recto (8).



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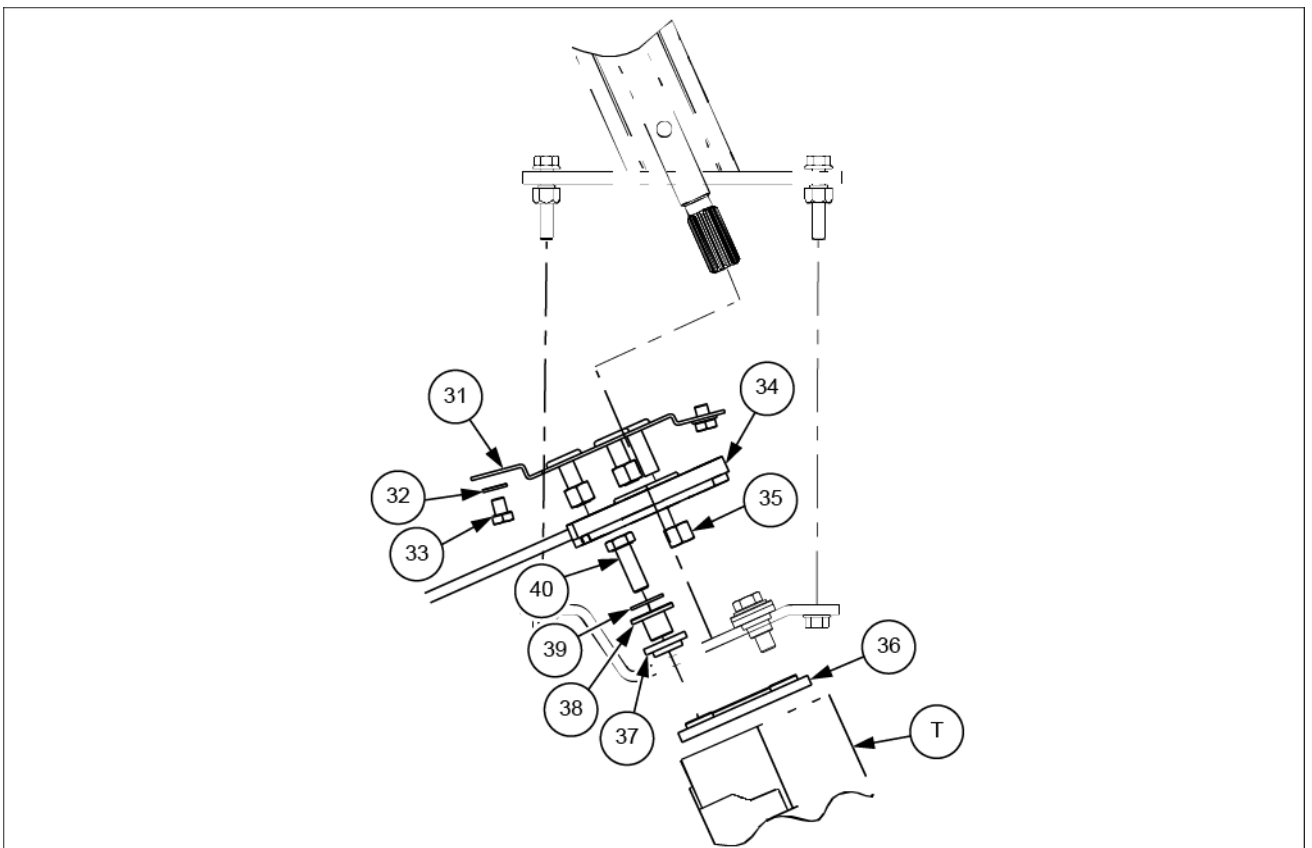
Instalación del sensor

44. Bajo la cabina, instale el aislador de la bomba de dirección (36) a la válvula de orbitrol (T). Fíjelo con pernos M10x30 (40), arandelas de bloqueo M10x22 (39), casquillos de acero (38) y casquillos de goma (37).

NOTA: oriéntelo de modo que el mazo de cables salga hacia la izquierda de la cabina y la etiqueta del fabricante mire hacia arriba.

NOTA: oriente el aislador como se indica en la figura con las protuberancias hacia la cabina.

45. Debajo de la cabina, instale el soporte del sensor de JSS (31) y el sensor del ángulo de dirección (34). Fíjelo con los pernos M8x10 (33), las arandelas 9x16x1.6 (32) y las tuercas M10 (35).



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