An Oshkosh Corporation Company

SERVICE MANUAL

TF6-42

9150-4002

March 2003

Starting Serial No.
0192001 thru 0192007
& 0160000052 thru Current

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TRANSFORMER SERIES WORK PLATFORM

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ADDITIONAL STEPS TO INSTALL TRANSFORMER SERIES PLATFORM (items 7 thru 10):



7. Always turn off the machine before performing the next several steps.



8. Press the decompression valve located in cab, this takes the pressure out of the auxiliary hydraulic lines located on boom head.



9. Attach the electric harness lines as shown to the front of boom.



10. Attach the hydraulic lines to the side of boom as shown.

NOTE!

When hooking up the Transformer Series platform, the hydraulic hoses are run through the Quick Switch™. Pull these hoses and electrical cables back to prevent pinching when attaching and hooking up hydraulic hoses to the front of the boom.

Important Notice !

This machine has been equipped with a serial number specific Transformer Series Personnel Work Platform. Do not exchange transformer platforms between machines. Doing so will require calibration changes to the controller that must be performed by a qualified service technician. This platform assembly is designed soley for use with the Transformer Model Machines only.

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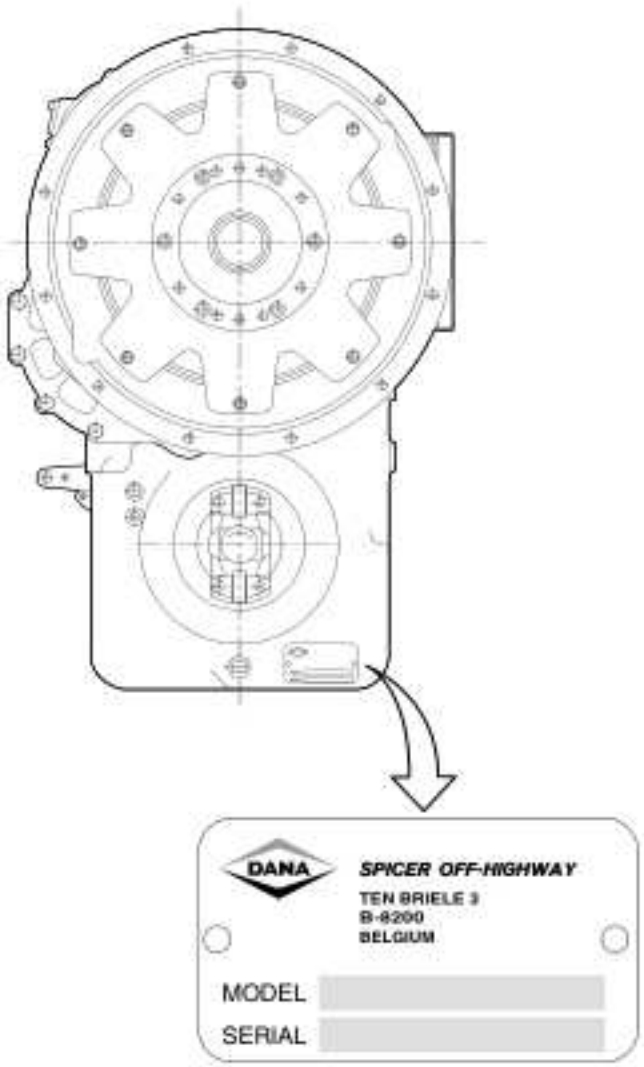
F.1 Controllo ed esame dei guasti

Questo capitolo offre una guida descrittiva ed esplicativa di problemi che si possono comunemente riscontrare sugli assali o di avarie che si possono verificare. La guida suggerisce anche le corrette procedure di riparazione.

Problema	Causa	Riparazione consigliata
Rottura verso l'estremità esterna del dente corona dentata	1. Carico dell'ingranaggio eccessivo rispetto a quello previsto 2. Regolazione ingranaggio scorretto (gioco eccessivo) 3. Dado del pignone allentato.	Sostituire corona dentata e pignone. Seguire attentamente le operazioni raccomandate di regolazione del gioco della corona dentata e del pignone e per la rilevazione dell'impronta del dente.
Rottura verso l'estremità interna del dente corona dentata	1. Urto da carico 2. Regolazione ingranaggio scorretto (gioco insufficiente) 3. Dado del pignone allentato	Sostituire corona dentata e pignone. Seguire attentamente le operazioni raccomandate di regolazione del gioco della corona dentata e del pignone e per la rilevazione dell'impronta del dente
Denti del pignone e della corona dentata erosi o rigati	1. Lubrificazione insufficiente 2. Lubrificante sporco 3. Lubrificante errato o con additivi impoveriti 4. Cuscinetti del pignone consumati che provocano un gioco assiale del pignone e un contatto tra pignone e corona scorretto.	Sostituire corona dentata e pignone. Sostituire i cuscinetti del pignone facendo attenzione a sistemare correttamente la corona, il pignone e i precarichi dei cuscinetti. Usare il lubrificante corretto, riempire vino al giusto livello e sostituirlo agli intervalli raccomandati.
Denti della corona e del pignone surriscaldati. Guardare se i denti dell'ingranaggio hanno perso la colorazione	1. Funzionamento prolungato a temperatura eccessiva. 2. Lubrificante scorretto 3. Livello dell'olio basso 4. Lubrificante sporco.	Sostituire corona dentata e pignone. Usare il lubrificante corretto, riempire vino al giusto livello e sostituirlo agli intervalli raccomandati.
Denti del pignone di comando butterati	1. Uso estremamente intenso 2. Lubrificazione insufficiente	Sostituire corona dentata e pignone. Usare il lubrificante corretto, riempire fino al giusto livello e sostituirlo agli intervalli raccomandati.
Corpo trave dell'assale piegato	1. Sovraccarico del veicolo 2. Veicolo incidentato 3. Urto da carico	Sostituire il corpo trave dell'assale
Cuscinetti consumati o butterati	1. Lubrificazione insufficiente 2. Lubrificante sporco 3. Uso estremamente intenso 4. Consumo normale 5. Dado del pignone allentato.	Sostituire i cuscinetti. Usare il lubrificante corretto, riempire fino al giusto livello e sostituirlo agli intervalli raccomandati.
Le guarnizioni perdono olio	1. Funzionamento prolungato con temperatura dell'olio eccessiva. 2. Guarnizione dell'olio montata male 3. Bordo della guarnizione tagliata o intaccata 4. Lubrificante sporco	Sostituire la guarnizione e la superficie di accoppiamento se danneggiata. Usare il lubrificante corretto, riempire fino al giusto livello e sostituirlo agli intervalli raccomandati.
Usura eccessiva della scanalatura della flangia di entrata.	1. Uso intenso 2. Dado del pignone allentato 3. Gioco assiale del pignone	Sostituire la flangia Controllare che la scanalatura del pignone non sia eccessivamente consumata Sostituire corona dentata e pignone, se necessario.

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3. TECHNICAL SPECIFICATIONS



3.1 IDENTIFICATION OF THE UNIT

1. Model and type of the unit.
2. Serial number.

3.2 WEIGHT, DIMENSIONS, OIL CAPACITY

Weight (dry): ±174.6 kg (385 lb.)

	T-model	MT-model
Maximum length:	623.1 mm (24.53")	712.5 mm (28.05")
Maximum width:	477.0 mm (18.78")	477.0 mm (18.78")
Maximum height:	701.1 mm (27.60")	701.1 mm (27.60")

Oil capacity

±12.9 l (3.4 US Gallon) without cooler and hydraulic lines.

Consult operator's manual on applicable machine for system capacity.

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Figure 288

Install spring spacer in spring retainer. Refer to the cleaning and inspection pages.



Figure 291

Install spring retainer, spring and regulator valve in sleeve against inner cross pin.



Figure 289

Install spring in spring retainer.



Figure 292

Compress regulator spool and spring in sleeve far enough to install cross pin.



Figure 290

Check orifice in regulator spool to be free and clear of any foreign material.



Figure 293

Install cross pin.

NOTE: Some units will have two cross pins the same length. Some units will have two pins of different lengths. The longest pin goes in the bottom hole.

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Figure 20

Install a new "O"-ring on regulator spool sleeve.
Position check ball in sleeve.
Refer to the cleaning and inspection pages.

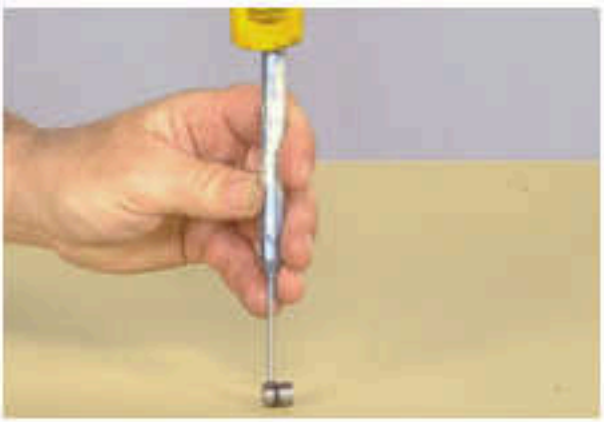


Figure 21

Install check ball retainer pin.



Figure 22

Position sleeve and ball assembly in regulator spool with check ball retainer pin up.



Figure 23

Install sleeve retainer ring.



Figure 24

Install housing sleeve pin.



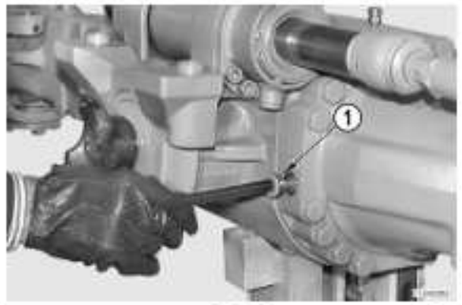
Figure 25

Install regulator spool stop, spring and regulator spool and sleeve assembly in housing sleeve.

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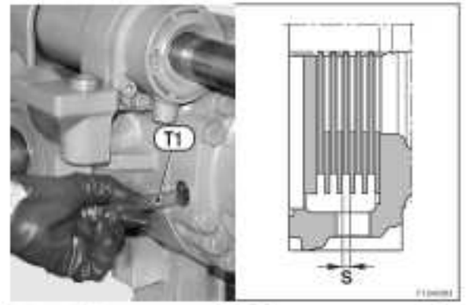
SYMBOLS - SIMBOLI - SYMBOLS
SIMBOLOS - SYMBOLES

	Disassembly of assembly groups Smontaggio di sottogruppi Zerlegen von Baugruppen Desmontaje de subgrupos Démontage des sous-groupes
	Reassemble to from assembly groups Montaggio di sottogruppi Zusammenbauen von Baugruppen Ensamblaje de subgrupos Montage des sous-groupes
	Remove obstruction parts Smontaggio di particolari ingombri Abbauen-Ausbauen Desmontaje de componentes abultados Démontage des pièces encombrante
	Reinstall-remount parts which had obstructed disassembly Montaggio di particolari ingombri Einbauen-Ausbauen Montaje de componentes abultados Montage des pièces encombrante
	Attention! Important notice Attenzione, indicazione importante Achtung, wichtiger Hinweis ¡Cuidado! Indicación importante Attention, indication importante
	Check - adjust e.g. torque, dimensions, pressures, etc. Controllare - regolare p.e. coppie, misure, pressioni ecc. Prüfen - Einstellen z.B. Momente, Maße, Drücke u.a.m. Controlar y ajustar, por ej. pares, medidas, presiones, etc. Contrôler, régler p.e. couples, mesures, pressions ecc.
	T = Special tool — P = page T = Attrezzature speciali — P = Pagina T = Spezialwerkzeug — P = Seite T = Herramientas especiales — P = Página T = Outils — P = Page
	Note direction of installation Rispettare direzione di montaggio Einbaurichtung beachten Respetar la dirección de ensamblaje Respecter direction de montage
	Visual inspection Esaminare con controllo visuale Kontrollieren -Prüfen Examinar mediante inspección visual Contrôler, examiner, controle visuel
	Possibly still serviceable, renew if necessary Eventualmente riutilizzare (sostituire se necessario) Bedingt weiterverwendbar Puede volver a utilizarse (reemplazar, si es preciso) Eventuellement a utiliser a nouveau (remplacer si nécessaire)
	Renew at each reassembly Sostituire ad ogni montaggio Beim Zusammenbau immer erneuern Puede reemplazarse a cada ensamblaje Remplacer avec chaque montage
	Unlock - lock e.g. split pin, locking plate, etc. Togliere-mettere la sicura Entsichern-Sichern Quitar-colocar el seguro Enlever-mettre la sécurité
	Lock-adhere (liquid sealant) Mettere la sicura, incollare (mastice liquido) Sichern-Kleben (Flüssige Dichtung) Colocar el seguro, pegar (mastique líquido) Mettre la sécurité, coller (mastic liquide)
	Guard against material damage, damage to parts Evitare danni materiali, danni a pezzi Materialschaden verhüten Evitar dañar los materiales o las piezas Eviter dommages au materiaux, dommages au pièces
	Mark before disassembly; observe marks when reassembly Marchiare prima dello smontaggio (per il montaggio) Vor dem Ausbau markieren (für den Zusammenbau) Marcar antes de desmontar (para facilitar el ensamblaje) Marquer avant la démontage (pour le montage)
	Filling - topping up - refilling e.g. oil, cooling water, etc. Caricare - riempire (olio - lubrificante) Einfüllen - Auffüllen - Nachfüllen (Öl-Schmiermittel) Cargar - llenar (aceite lubricante) Charger - remplir (huile - lubrifiant)
	Drain off oil, lubricant Scaricare olio, lubrificante Öl, bzw. Schmiermittel Ablassen Descargar aceite lubricante Vidanger, lubrifiant
	Tighten Tendere Spannen Tensar Tendre
	Apply pressure into hydraulic circuit Inserire pressione nel circuito idraulico Leitung unter Druck setzen Introducir presión en el circuito hidráulico Inserer pression dans le circuit hydraulique
	To clean Pulire Reinigen Limpiar Nettoyer
	Lubricate - grease Lubrificare - ingrassare Schmieren - einfetten Lubrificar - Engrasar Lubrifier - Graisser



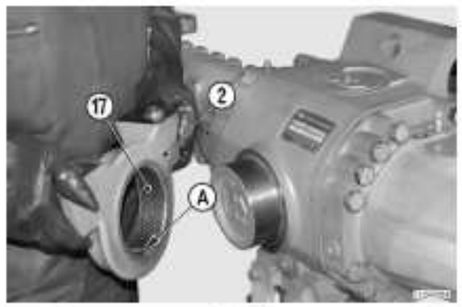
GB a

CAUTION! Perform all operations on both arms.
Remove the oil-level plug (1).



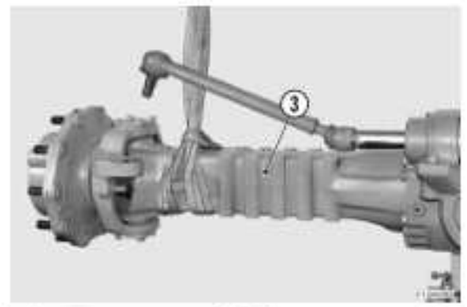
bar GB b

Apply the brakes and, keeping them under pressure, check the linings "**S**" between the disks using tool **T1**.
Minimum "**S**": 4.5 mm.
CAUTION! Replace the braking disks and the intermediate disks on both sides if necessary.



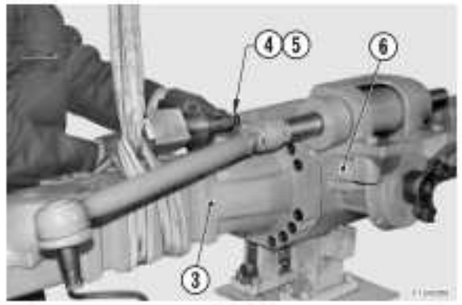
GB c

Remove the swinging support (2) on the side opposite the drive.
NOTE. If the bushing (17) is worn and needs replacing, note down the assembly side of the connection notch "**A**".



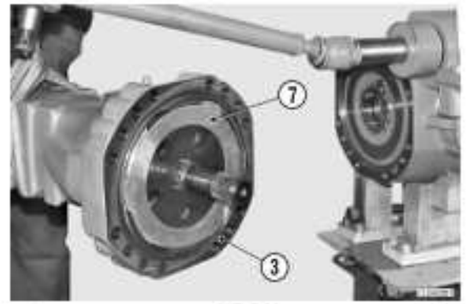
GB d

Disconnect the pins of the steering bars from the steering case (See «HOW TO REMOVE THE STEERING CYLINDER»).
Sling the arm (3) to be removed and put the rod under slight tension.



GB e

Unloose and remove the screws (4) and the washers (5) that fix the arm (3) to the central body (6).



GB f

Remove the arm (3) together with the pack of the braking disks (7).
Place the arm on a bench.

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