

ÚŒÜVÙÆŠŴVŒÕÁY QYP TUWÞVŒÕÆÆÐÖÁJÚÒÜŒ/ŒÕ ŒÙVÜWÔVQUÞÙ

Tiger Corporation HH€FÁ⊃ĖŠŠ[žã^ÁQĘ^È

HH€FAÞES[čã^AQĘ^E Ùã[čÁØæ]•ÉÂŪÖÁÁ Ï F€Ï 1-800-843-6849 1-605-336-7900 www.tiger-mowers.com

06011016

TO THE OWNER / OPERATOR / DEALER

 $\begin{array}{l} Cfl Åi] [A^{+} a a A^{+} [c] A^{+} A^{+} A^{+} [c] A^{+} A$

 $\begin{array}{l} \textbf{BEFORE YOU START!! } \ddot{U} \approx \dot{A} \otimes \dot{A} \otimes \dot{A} \approx \dot{C} \hat{A} \wedge \bullet \bullet \neq & \bullet \dot{A} \\ \dot{U} \approx \dot{A} \otimes \dot{A} \otimes$

READ AND UNDERSTAND THIS MANUAL! Non–English speaking operators will need to GET THE MANUAL TRANSLATED as needed!



FORWARD

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T ŒÞWØŒÔVWÜÒÖÁÓŸK	ŎŴVÜŹŴŴŎŎŔŐŸĸ
Tiger Corporation	
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 This symbol meansk

 CAUTION – YOUR SAFETY IS AT RISK!

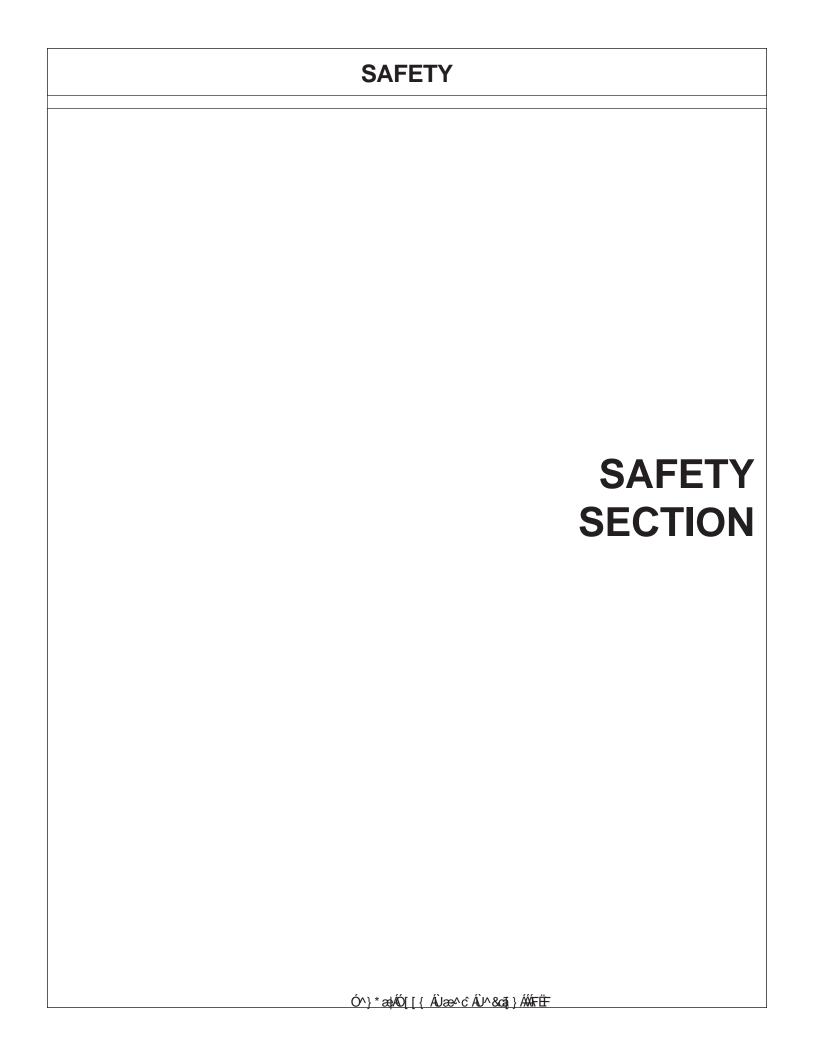
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General Safety Instructions and Practices

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V@AÛæ^cîÁ0E^¦oAÛ^{ à[|Á&[{ àð] ^åA ã@źsAÛðî } æA/[¦åÊáse Á ^^} Ás^|[, Éás Á • ^å c@[* @ cAc@aA(a) aA(a) aA(a) AaA(a) AaA(a) AaA(a) AaA(a) AaA(a) AaA(a) AA(a) æ^c Áthioù { à [|Á ^æ • KATTENTION! BECOME ALERT! YOUR SAFETY IS []^¦æ[¦Á(Á§[]^}åã;*Á@ee æ¦å•Áæ);åÁs@/Áŝ^*¦^^Á(-••ãa|^Á§[b'¦^Á;@}}Á[]^¦æã;* c@∄Á~ĭã[{^}cÈ

Practice all usual and customary safe working precautions and above all -- remember safety is up to YOU! Only YOU can prevent serious injury or death from unsafe practices.

DANGER!



UÜÁXÒÜŸÂJÒÜQJWÙÁ PWÜŸÈ

WARNING!



ÖOOE/PÁJÜÁÙÒÜOJWÙÁOPRWÜŸÈ



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Identifies points of particular interest for more efficient or convienient operation or NOTE:

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WARNING!



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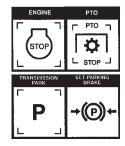
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WARNING!

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DANGER!



Ó^} * æ‡ÁŐ[[{ ÁÙæ^ ĉ ÁÙ^ &cā] } ÁŴFËH

DANGER!	Þ^ç^¦Áq [、Á&@aå¦^}Á,¦Á;c@;¦Á;^¦•[}•Áξ Áãå^Á;}Á@Á/¦æ&q[¦Á;¦ÁQ] ^{ ^}cÈ Øæ jð]*Á;~Á&æ)Á^•` Á§ Á^¦ðj`•Á§ b`¦^Á;¦Áå^æc@È (SG-10)	
DANGER!	Þ^ç^¦Áæ≱∥[, Á&@äåå¦^}Át[Át]^¦ææ^Át¦Áãå^Át}}Áo@^ÁV¦æ&d[¦Át¦ÁQ] ^{{ ^}cÈ (^(SG-11)	
WARNING!	Ö[Á][ơÁ[[ઁ]ơÁo@Á/¦æ&d[¦Á, @ặ^Áo@Ád;æ&d[¦Á&iÁ;[çā]*ÈÁT[č]ơÁo@ V¦æ&d[¦Á;] ^Á, @}}Áo@Á/¦æ&d[¦Áæ)åÁæ Á;[çā]*ÁjæiorÁæi^Á&[{] ^c^ •d[]]^åÈ ¹²⁾	510
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DANGER!	Þ^ç^¦Á[¦\Á}å^¦Áo@ÁQ] ^{ ^}dÉá@A¦æ{^,[¦\É4,lÁæ}^Áã&åÁ&[{][Ë }^}oÁ`}I^••Áo@ÁQ] ^{ ^}oÁ Á*A*`!^ ^Á`]][¦C*åÁ,lÁä [&\^åÁ]Á[]¦^ç^}oÁ`åå^}Á,lÁ5;æåç^!c*}oÁæ j3*Á,@3&@&&[` åÁ&æě•^Á+ląī`•Á5;b' ^ [¦Á [*] ç^}Áå^æc@È4 _(SG-14)	
DANGER!	Ö[Á][ớ{\]^\!æe^Áo@árÁÒ``ā]{^}óA, ão@́4@ å\æ` ã&Á\āļÁ^æ+ā]*ÈÁUāļÁár ^¢]^}•ãç^Áa); åÁār•Á\\^> &^Á&[` åÁ\:^^> óAsó@æ æ+åĚÁÖ[Á][ớ&@ &\Á[^æ+•Á;ão@^{[` Á@æ+)}åÁÁA/*^Áæ+Á;ā*&^Á; Á@ æç^Á;æ]^\A[iA&æ+åà][æ+åÈÁPā*@Ë]!^••`!^Á\āJÁ+d^æ=+Á+[{ Áa: ^æ+•Á5;Åc@ Áā]^Á&[` åÁ]^}dæe^Ác@ Á\] æ+àÅ&æ*•^Áæ**^Áaæ= æ*^Á5;&]`åā]*Á*æ+*]^}EÁQÁţāJÁ&[^•Á,^}dæe^Ác@ •\ājÊŹ@æç^Ác@ Á5;b`!^Át^æe*åÁ5;{ ^åãæe^ ^Áa^Áæ+]@•ã&ãæ)Á}[, ^å*^Ë æaa ^Áæ+åA\ā]^åÁ5;Ác@áA;![&^å`!^Ě(sG-15)	

Ó^}*æ¢ÁÓ[[{ ÂÙæ^ĉÂÙ^&cā[}}ÁЖ/FË

WARNING! V@^Á[]^¦æq[¦Áæ);åÁæ||Á*`]][¦óÁ]^¦∙[}}^\Á`@?`|åÁ,^æłÁ@æb;åÁ@ææ•Ê •æ^ć Á @ ^•Ê4 æ^ć Á |æ••^•Ê5ee) å Á; ¦[]^¦Á@ æið; * Á; ¦[c^&cã; } Ásec/áse; cãį ^•Áį¦Áį¦[c^&cãį}}Á+j[{Áşib`¦^Áşi&|ĭåā;*Áşib`¦^Á+j[{Ásc^{•Ác@}[.]}Åsî (SG-16) c@^Á~ĭã]{^}cÈ

CAUTION!

PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMA-NENT HEARING LOSS! V | æ&d [|• Á ãc@á | Á ãc@ č ó æ) ÁQ] |^{ ^} o Śæë cæ&@åÅ&æ)Á,~e^}Ás^Á,[ã^Á}[`*@k[Á&æ`•^Á,^¦{æ}^}d@æa],*Á[••È Y^Á^&[{ { ^}åkû@æaÁ[`Áæt, æê•Á, ^ætÁ@ætā]*Á,¦[c^&cā]}ÁãaÁo@A,[ã^^Á§; c@ ÁU]^¦æe[¦qrÁ[•ãaā]}Á^¢&^^å• €åàÈÁAP[ãr^Á;ç^¦ÂĺåàÁ;ç^¦Ásə) ^¢c^}å^åÁ^¦āiåÁ; Áqãi ^Á; álÁ&aĕ •^Á^ç^¦^Á@adai*Á[••ÈÁÞ[ã^Á;ç^¦ÁJ€åà æåbæ&^}cÁt[Ás@^ÁU]^¦æe[¦Átç^¦Ása)Á^¢c^}å^åÁj^¦ã[åÁt,-Ásã[^Á, ã|Á&æĕ∙^]^¦{ æ}^}ơ{\| Á\$[æ¢Á@ æb]ā * Á[•• ÈÁNote:Á\P^æb]ā * Á[•• Á\| { Á[čůÁ,[ã^







V¦æ)•][¦ơÁ;}|^ÁsceÁ;æ^Á;]^^å•ÈÁÁÙ^¦ã;č•Ásce&&ãå^}c•Áse}åÁ§;b'¦ã•• & a) Á¹,• ^{*} | oÁ; [{ Á;] ^ | aca; * Ás@a Á^{*} ^{*} a] { ^} oÁsaÁ^{*} } • ae^ Á;] ^^å• È $W_1 a^{+} c_{aa} a_{a} b_{aa$ dæ)•][¦æ]*Á[}Á:d^^œ-Áæ)åÁ@ã@æî•Ě₩ATæ}^Á`¦^Ás@eA V¦æ&d;¦ • c^^¦ā] * Ása) å Ási¦æ) ^• Ása'^ Ási Á'[[å Ási] } åããi] } Ása) å Ái] ^¦æe^ Ái ¦[] ^¦|È

ަ[{ Ásiæ&d;¦•É&&@æanjÁæ;•ÉÅæanåa]•ÉæanjåÁ;c@;¦Á`&@Á[`¦&^•Á&][•^Á‡[Ás@ $^{adata} As { () accertain A constraints ()$

Before transporting the Tractor and Implement, determine the safe transport speeds for you and the equipment. Make sure you abide by the following rules:

- Test the tractor at a slow speed and increase the speed slowly. Apply the Brakes smoothly to determine the stopping characteristics of the Tractor and Implement. As you increase the speed of the Tractor the stopping distance increases. Determine the maximum safe transport speed for you and this Equipment.
- 2. V^• ok@ A~~~] { ^} ok a k i [, A] ^^ a k A k i } E k & k ^ a e ^ k @ A] ^^ a c@[`*@ka@Ač;}A;}^Âee^;A[`As^c;{ 3;^Ac@ee/sa/sa A;e^A;A;A;]^;ee^ ærÁxtÁ@ã@\Á]^^åÈÁWI^^Á?¢d^{ ^Á&æt^Áæt}åÁ^å`&^Á[`\Á]^^å @} Áš ¦} ā * Á @eel] |^ Áţ Á, l^ç^} oks@ Áslæ&d; l Áse) å Áşt] |^{ ^} oÁ+[{ č¦}ą;*Áįç^¦ĖÄÖ^c^¦{ą;^Ás@^Áῢąį~{Áæ^Áč¦}ą;*Á]^^åÁ[¦Á[` æ)åÁs@ãÁ[×]čãl{^}œá^-{¦^Á;]^¦ææã;*Á;}Á[æå∙Á;¦Á'}^ç^}Á*¦[č}åÈ
- 3. U} |^ Áslæ)] [¦ Ósl@ Á/¦æslo[¦ Áse) å ÁQ] |^{ ^} ofsær k@ Á] ^^å Ás@ær Á [` @eeç^Ási^c^¦{ ā]^åÁsel^Á;æ^Áse)åÁ; @a&@ése|[, Á[`Áş[Á;¦[]^¦|^ &{ } d{ | & @ A `` a { ^} c È

Be aware of the operating conditions. Do not operate the Tractor with weak or faulty brakes. When operating down a hill or on wet or rain slick roads, the braking distance increases: use extreme care and reduce your speed. When operating in traffic always use the Tractor's flashing warning lights and reduce your speed. Be aware of traffic around you and watch out for the other guy. (SG-19) <u>Ó^} * æłÁÓ[[{ ÁÙæ^ ĉ ÁÙ^ & cã } ÁŴFĔ</u>









Þ^ç^¦Áææc^{] cát[ʎ, `à¦æææ^Êźæåbŏ • dŹh, ¦Á^{ [ç^ ʎ, ææ^¦ææhÁ'[{ Ác@^ Q] |^{ ^} c^ @aħ^ᡬæ⁄á₽ Át [cat] } ʎ; l ʎ @aħ^átæ&d [l ʎ+} * ā] ^ ʎæ Á` }] ā] * ÈÁT æb ^ • ` ¦^ʎs@`Át æ&d [l ʎ+} * ā] ^ ʎæ ʎ; ~ʎà^-{ l ^ Å, [l \ ā] * Á; } Ás@`ÁQ] |^{ ^} cÈ (SG-20)

WARNING!

Ú^¦āt å ā8æļ^Áðj•]^&o/sæļÁ, [cāj*Á, æto Á; ¦Á, ^ætÁæjåÁ^] |æ&^Á, @^} }^&^••æt^Á, ão@see c@; !ã ^åÁ^¦çã&^Á; æto ÈÁŠ[[\Á; ¦Á;[[•^Áæe c^}^!•Ê , [!}Á;!Áu;[\^}Á, æto ÉÆsjåÁ^a æt^Á; !Á;[[•^Áãcāj*•ĚÁT æt^Á*`!^ÁæļÁ; ā]• æt^Á;![]^!|^Ár^&`!^åÈÁU^!ā[*•Áş]b`!^Á; ætÁ; &&`!Á+[{ Á,[oÁ; æðj cæðjā]* c@#Á; æ&@3j^ÁşiÁ*[[åÁ; [!\ā]*Á; !å^!ÈÁ_{G-21})



CE, æê • Á^æá Á&æ/~~ ||^ Ása) å Á&[{]|^ Á~ ||^ Á, ão@ko@ Á, æ) `~æ&c`¦^¦• Á§, • d` &Ë cā, } • Á, @} Á@æ) å |ā, * Á,ājEA [|ç^} o• E&|^æ) • ^¦• E&a) å Ása) ^ Á, c@ ¦ Á&@ { a&æ} æ* ^} dEÁAs_{G-22)}





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SÒÒÚÁŒY ŒŸÁZÜUT ÁÜUVŒVŒVŒ ŐÁÒŠÒT ÒÞVÙÁ{ Á¦^ç^} œ?) * |^{ ^} c æ) å Á[••āa|^Á^¦ā[`•Á§ Ď ¦^Áį kå^æc@È (SG-24)





Þ^ç^¦Áa‡|[, Á&@¥å¦^}ÁţÁţ|æ?Áţ)Áţ¦Áæ4[`}åÁ'¦æ84['Ăţ¦ÁQ]|^{ ^}dĚ¥ŴÔ@¥å!^} &æ)Á|ā]Áţ¦Áæ‡|Áţ~Ás@ÁÒ``ā]{ ^}dése)åÁs>Á§bĭ¦^åÁţ¦Áā‡|^åÈ¥₩Ô@¥å¦^}Á&æ) &æ`•^Ás@ÁQ]|^{ ^}détÁ @sa4t¦Áæ‡|Ás¦`•@3t*Ás@{ •^|ç^•Áţ¦Áţc@¦•È¥¥625)







U]^¦æ&^Á@^Á/¦æ&q[¦Áse}åtÐlÁQ]]/^{^}ơ&[}d[[•Á,`}^Á@A^Á,'[]^\|^Á^æe^å ājÁc@Á/¦æ&q[¦Á*^æxÁ,ãc@Ás@Á*^æxÁs^|ơ4*^&č'¦^|^Áæ=c*}^åÁse4[`}åÁ[`È Qæåç^¦c*}ơ4,[ç^{ ^}ơ4, Ás@`Á/¦æ&q[¦Á,¦ÁQ]]/^{ ^}ơ4, æîÁsæĕ •^Á*^¦āj`• ājϦ^Á,¦Ás^æc@EXAsc=29)





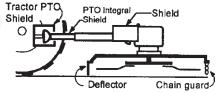
V@\^Áad~Áţàçāţ`•ÁaġåÁ@ãåå^}Áj[c^}cāædÁ@æææåå•ÁġÁœÆáj]^¦ææāj}Áţ-Áv@á T[, ^¦ĚÄÜÒT ÒT ÓOÜÂÁÁ/@ãA Ázæ&@aj^ÁãrÁţ-c^}}Áj]^¦æe^åÁġÁ@æçîÁà¦`•@ æjåÁġÁ@æçîÁj^^å•ĚÁA/@ÁÓ|æå^•Á;Ak@árÁT[, ^¦Á&æjÁc@[, Áţàb/&ce^Áa-•@a^|å•Ásd^Áj[cÁ4]|]^\|îÁaj•cæ||^åÁsajåÁ(æajcæaj^åĚÁÚ/^¦āj`•Áajb`!îÁ; ^ç^}Áå^ææ@Á(æíÁt&&č`!Á]|^••Á&æ4^ÆiÁæa}^}Át[Áaj•`!^Ás@A áze^Áa []^¦æet[iÊásî•cæjå^\!eÉti¦Ájæ•^!•à`ÁajÁc@Ásd^æÉÁÜd[jÁt[,āj*ÁaAsd^ î[}^ {æ&@aj^Á_ãc@ásd^[]^AájÁc@Áat[{ ^åãæe^Ásd^æÉÁÜd[jÁt[,āj*Áa5Asd^ î[}^ ã¢Á ãc@ajÁF€€ÉÁædå•Áţ-Át[, ^¦ÈÅsGM-2)



DANGER!



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WARNING!

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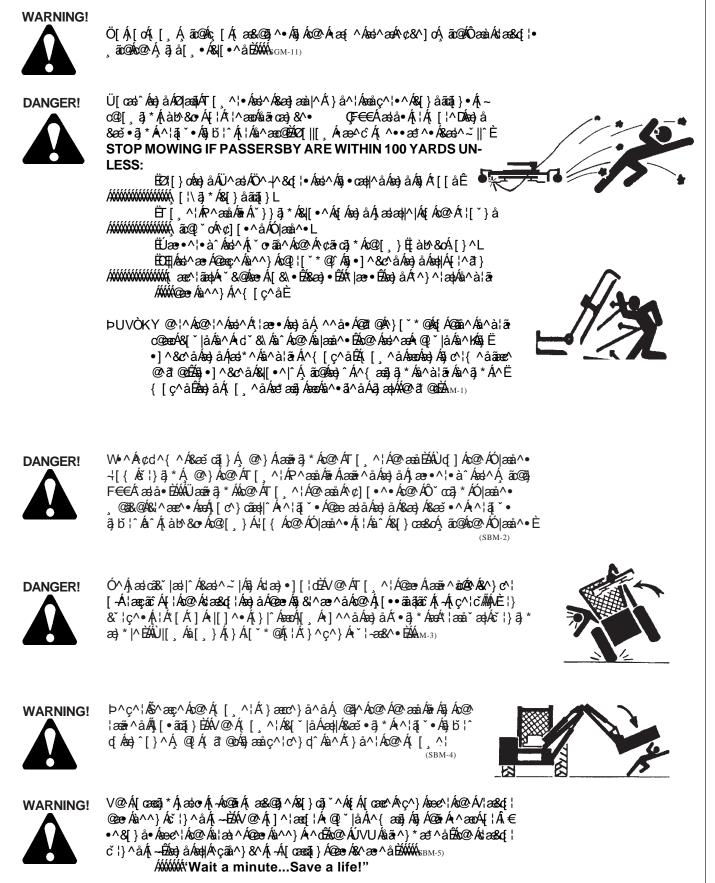
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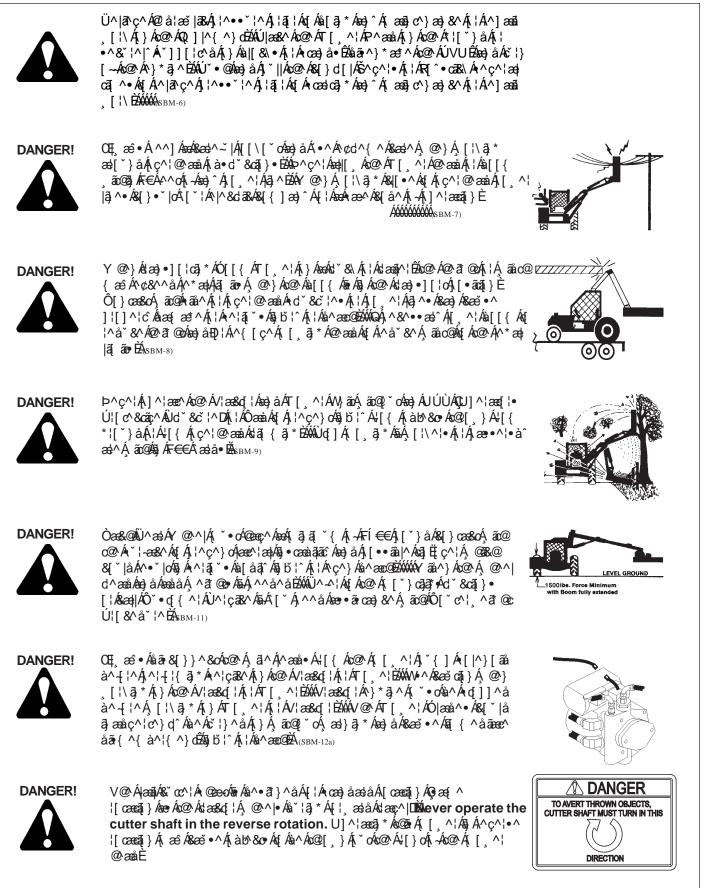


Ü^] |æ&^á^} dĺ; [`\^} ká|; [`\^} ká|æå^Á, ãơá, ^, ká|æå^• ĚÁÞÒX ÒÜÁŒ/VÒT ÚVÁ/U ÙVÜCEŐP VÒÞÁJ ÜÁY ÒŠÖÁJ ÞÁÓŠCEÖÒÙÁJ ΦÔÒÁ/P ÙÁY ČŠŠÁŠCS ÒŠŸ ÔÜCEÔSÁJ ÜÁJ VP ÒÜY ÙÙÒÁOET CEŨÒÁ/P ÒÁÓŠCEÖÒÁAY CVP ÁJWÓÙÒË ÛWÒÞ VÆCEŠWÜÒÁCEÐ ÖÁJUÙÙÓŠÒÁJÒÜQI WÙÁĐ RMÜŸ ÁZÜUT Á/PÜUY Þ ÓŠCEÖÒÙÈÁ (SGM-10)

<u>Ó^} * æ¢ÁÓ[[{ ÁÛæ^ ĉ ÁÛ^ & cā] } ÁŴFË</u>



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WARNING!



Ò}*ā}^ÁÒ¢@eĕ•d£¥{[{^Á;√áorÁ&]}•cãč^}o•Éae)åÁ&^¦cæa∄Á&[{][}^}orÁ&]}orÁ&[}(ā: &@{ā&ae)•Á}[,}Át[Áx@^ÁrcaerÁ;ÁÔaa†ã[¦}ãæÁt[Á&aĕ•^Á&aa)&^¦Áae)åÁatāc@4t;¦Át;c@;¦Á^]¦[å`&cãç^ @ea{È

WARNING!



Óææc^¦^Áj[•or-É&c^¦{ āj懕ÁæjåÁ^|æz^åÁæ&&^••[¦ā∿Á&[}cæājÁ^?æåÁæjåÁ^?æåÁ&[{][`}å•Ê &@{ā&懕Á}[,}Á(Ác@Aícæz^Á;ÁÓæ‡ã[¦}ãæÁt[Á&æĕ•^Á&æj&^¦ÁæjåÁaiāc@4ţ¦Á;c@°¦Á^]¦[å*&cãç^ @æ{EÉÁÁWash handsafter handling!

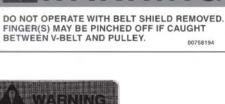


In addition to the design and configuration of this Implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer also to Safety Messages and operation instruction in each of the appropriate sections of the Tractor and Equipment Manuals. Pay close attention to the Safety Signs affixed to the Tractor and Equipment. \hat{A}_{UOIEID}



ÚŒÜVÆPUÈ ŠUÔŒVQUÞ

€€Ï Í Ì FJI ₩₩₩₩T UY ÒÜÁÖÒÔS





€GJÎGÏÎI ÁWWWWATOED⊳ÁÓUUTÊÁUÒÔUÞ֌ܟÁÓUUTÊATOED⊳ÁØÜCETÓ



€GJÎĞÏÎ /#####TOED⊳/AØÜCETÒ

€GJÎÍGÎG ###?ŸÖÜŒ!\Š@Û#/Ø⊒ÞS



KEEP AWAY - ROTATING BLADES BEING HIT BY THROWN OBJECTS OR CONTACTING ROTATING BLADES CAN CAUSE INJURY OR DEATH • Stop mowing if passersby enter the area of thrown objects. (See Operator's Manual) • Use special care when Flail or Wing is raised off the ground. (See Oper. Manual) • Operate only if all Guards-Deflectors are in place and in good condition.

ÚŒÜVÁ⊋UÈ ŠUÔŒVQUÞ

€GJÎÏÎÎÌ ₩₩₩T UY ÒÜÆÖÒÔS

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gà hj /// du àùàôôs



POLYCARBONATE WINDOW

REFER TO OPERATORS MANUAL FOR CLEANING INSTRUCTIONS

DO NOT LUBRICATE WITH AUTOMATIC GREASE GUN. GREASE WITH HAND GREASE GUN ONLY.

<u>Ó^} * æ¢ÁŐ[[{ ÁÛæ^ ĉ ÁÛ^ &cā] } ÁÁÆËFI</u>



IF FOREIGN OBJECTS ARE ACCIDENTLY CONTACTED, SHUT CONTROL SWITCH OFF IMMEDIATELY. DO NOT RAISE CUTTER HEAD UNTIL ALL MOVING PARTS HAVE STOPPED.



INSPECT REAR FLAP FREQUENTLY TO BE SURE IT IS IN SAFE WORKING CONDITION. DO NOT OPERATE MOWER WITH FLAP REMOVED OR WORN.

24028

ÚŒÜVÁPUÈ ŠUÔŒ/OJÞ

GĜI€ XXX DOÖ Ó ÁU ØÁÔ ŒÓ

G €GÌ Á UY ÒÜÁÖÒÔS

GÍΗÌΪ XXXX UQOAU QÁÔCEÓ



F€+ÁcÁÍĚ+ HFÍGG TUY ÒÜÁÖÒÔSÊAT OED ÁÓUUT FÌÈGÍ+Á¢ÁF€+ HFÍGH PŸÖÜŒNŠÔÓÁ⁄ŒÞS

 $O^{*} = AU^{*} C AU$

A WARNING

Valve section TF3009 with detented float to be used with only Boom Flail mower. DO NOT operate a Boom rotary mower with the float section installed. ÚŒÜVÆrUÈ ŠUÔŒE∕QUÞ

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HGÏ€Ï

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1. EACH REAR WHEEL MUST HAVE A MINIMUM OF 1500 POUNDS CONTACT WITH THE SURFACE TO PREVENT LATERAL INSTABILITY AND POSSIBLE TIP-OVER WITH **BODILY INJURY**. WIDEN WHEEL TREAD AND ADD WEIGHTS IF NEEDED. SEE MANUAL OR CALL TIGER CUSTOMER SERVICE FOR COUNTERWEIGHT PROCEDURE.

2. TRANSPORT CAREFULLY! SLOW DOWN EVEN MORE ON SLOPES AND WHEN TURNING; NEVER TURN UP A SLOPE SHARPLY OR AT HIGH SPEED; AND USE EXTRA CARE IN ROUGH OR BUMPY AREAS TO PREVENT OVERTURN AND POSSIBLE CRUSHING INJURY OR DEATH. IF YOUR VIEW TO THE REAR IS BLOCKED, IT IS YOUR RESPONSIBILITY TO INSTALL MIRRORS THAT PROVIDE A REAR VIEW TO PREVENT ACCIDENTS FROM BLIND SPOTS.

3. REAR-MOUNTED BOOM MOWERS MOVE CENTER OF GRAVITY TO THE REAR AND REMOVE WEIGHT FROM FRONT WHEELS. ADD FRONT BALLAST UNTIL AT LEAST 20% OF TRACTOR'S WEIGHT IS DN FRONT WHEELS TO PREVENT REARING UP, LOSS OF STEERING CONTROL. AND POSSIBLE INJURY.

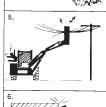
4. NEVER OPERATE UNIT WITHOUT AN OPS (OPERATOR PROTECTIVE STRUCTURE) OR CAB TO PREVENT INJURY FROM OBJECTS THROWN FROM GROUND AND OVERHEAD TRIMMING. STOP CUTTING IF ANYONE IS WITHIN 100 YARDS.

5. KEEP THE BOOM AND CUTTERHEAD AT LEAST 10 FEET FROM ELECTRIC LINES AND PIPE LINES TO PREVENT ACCIDENTAL CONTACT AND POSSIBLE SERIOUS INJURY OR EVEN DEATH.

5. WHEN TRANSPORTING BOOM MOWERS ON A TRUCK OR TRAILER. THE HEIGHT OR WIDTH MAY EXCEED LEGAL LIMITS. CONTACT WITH SIDE OR OVERHEAD STRUCTURES OR POWER LINES CAN CAUSE SERIOUS INJURY OR DEATH.

LOWER BOOM TO REDUCE HEIGHT AND/OR REMOVE MOWING HEAD TO REDUCE WIDTH TO THE LEGAL LIMITS, IF NEEDED. 32707





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 $O^{*} = AO[[{AUee^c AU^{8}}] + AFE^{1}]$

32708

ATTENTION

SERVICE HYDRAULIC SYSTEM WITH UNIVERSAL TRACTOR HYDRAULIC OIL. ÚŒÜVÁ⊋UÈ ŠUÔŒVQUÞ

HCÏ€Ì Á₩APŸÖÜCE∿ŠÓÓÁ/CEÞS

ACAUTION

For your safety and to guarantee optimum product reliability, always use genuine TIGER replacement parts. The use of inferior "will-fit" parts will void warranty of your TIGER implement and may cause premature or catastrophic failure which can result in serious injury or death. If you have any questions concerning the repair parts you are using, contact TIGER, 3301 N. LOUISE AVE., SIOUX FALLS, SD 57107

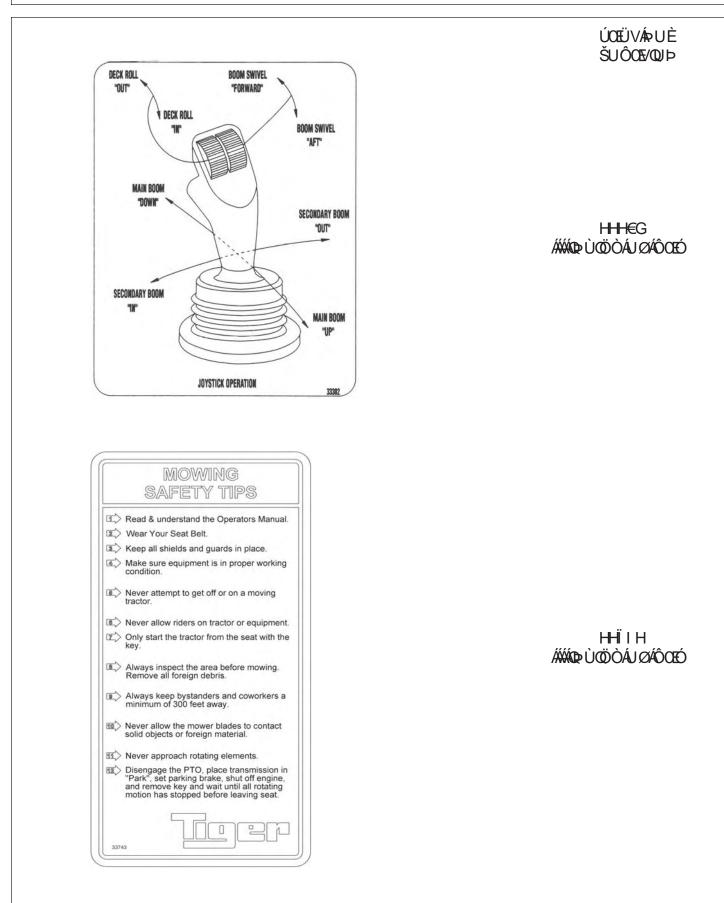
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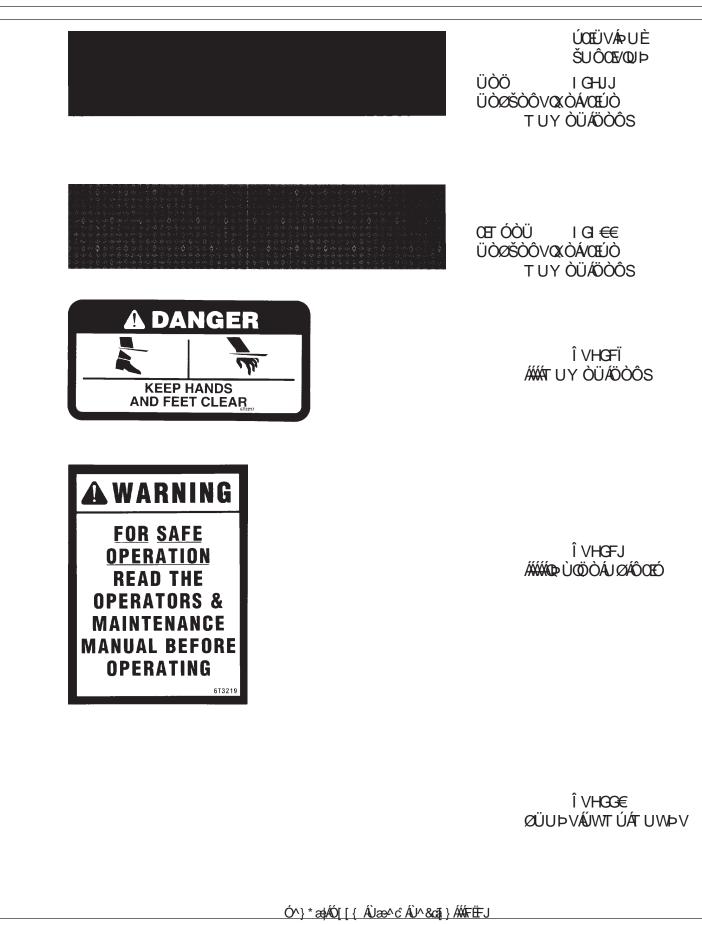
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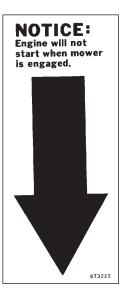


ACAUTION

LUBRICATE SPINDLE DAILY OR EVERY 10 HOURS OF USE. WITH MOWER AND TRACTOR OFF, INJECT TWO PUMPS OF TIGER SPINDLE LUBRICANT INTO SPINDLE BEFORE USING.

NOTE: SEE OPERATORS MANUAL FOR SUBSTITUTE LUBRICANT AND MORE DETAILED INSTRUCTIONS. 673221 ÚŒÜVÁ⊋UÈ ŠUÔŒ∑⁄QUÞ

Î VHQƏF QƏDÔÂU QÁÔQÓ





Î VHCCG XXXX ÙÖÔÁU ØÂÛCEÓ

Î VHCG ////DV OÜ/OOÔS



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Ó^} * æ¢ÁÓ[[{ ÁÙæ^ ĉ ÁÙ^ &cā]} Á Ж FËŒ

WARNING

DO NOT OPERATE THIS EQUIPMENT WITH BYSTANDERS IN THE AREA!

ROTARY MOWERS HAVE THE INHERENT ABILITY TO THROW DEBRIS CONSIDERABLE DISTANCES WHEN KNIVES ARE ALLOWED TO STRIKE FOREIGN OBJECTS. OPERATOR CAUTION MUST BE TAKEN OR SERIOUS INJURY CAN RESULT.



 ALLOW CUTTER ASSEMBLY TO COME TO COMPLETE STOP.
 CENTER DECK BETWEEN FRONT AND REAR TIRES.

3. PLACE BOOM INTO TRAVEL POSITION.

6T3231

6T-3233

FAILURE TO DO SO MAY RESULT IN TIRE DAMAGE AND/OR INJURY.

ACAUTION

DO NOT START OR RUN WITH VALVES CLOSED. (SERIOUS DAMAGE WILL OCCUR)

A CAUTION

CHECK CRANKSHAFT ADAPTER DAILY FOR TIGHTNESS AND GROMMET WEAR

AS SERIOUS DAMAGE TO RADIATOR MAY RESULT FROM IMPROPER MAINTENANCE. 6T3234 ÚŒÜVÆrUÈ ŠUÔŒVQUÞ

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Î VHGHF ###@DUÖÖÁUØÁÔŒÓ

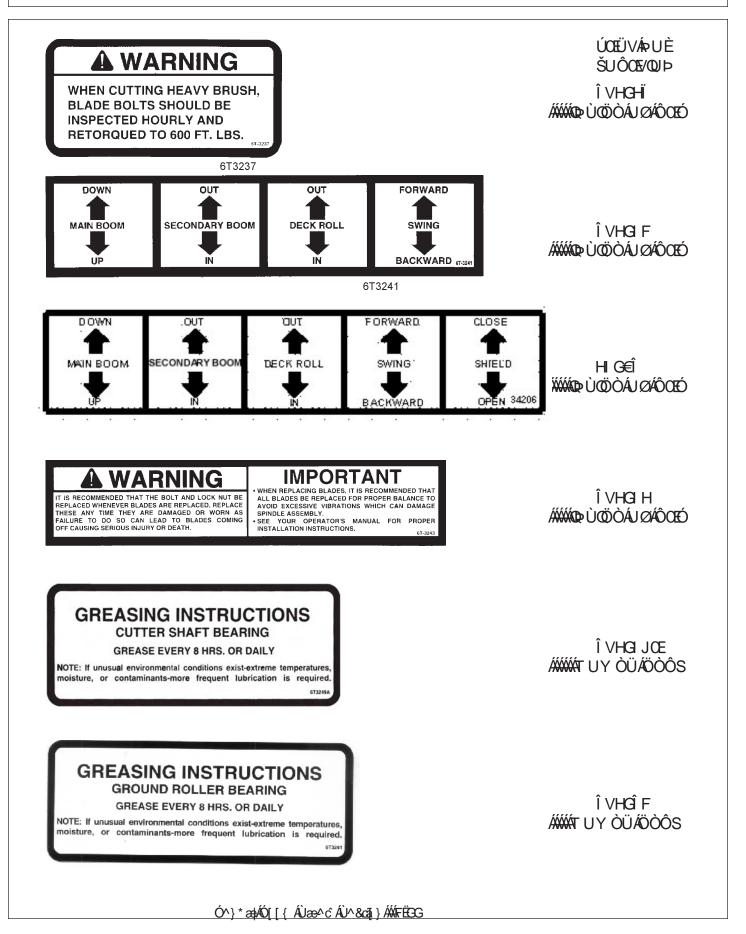
ÎVHGHH Á MAPŸÖÜCEV ŠOÔ MOEPS

Î VHGHI MÎVÂQÛÂDÂM

MADE IN THE U.S.

Î VH**CHÎ** ÁWWAT UY ÒÜÁÖÒÔS

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WARNING

DO NOT OPERATE MOWER WITH SAFETY SHIELD REMOVED. TB1011

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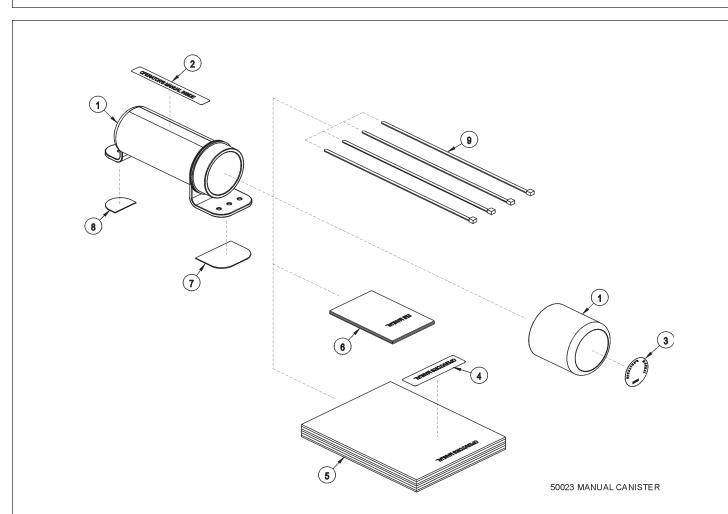


Tiger Corporation

800-843-6849 www.tiger-mowers.com

Description	Application	General Specification	Recommended Lubricant
Tractor Hydraulics	Reservoir	JD-20C	Mobilfluid [®] 424
Mower Hydraulics Cold Temperatures 0°F Start-up Normal Temperatures 10°F Start-up Normal Temperatures 15°F Start-up High Operating Temperatures Above 90°F Ambient	Reservoir	ISO 46 Anti-Wear/ Low Temp JD-20C ISO 46 Anti-Wear ISO 100 Anti-Wear	Mobil DTE® 15M Mobilfluid® 424 Mobil DTE® 25 Mobil DTE® 18M
Flail Rear Gearbox	Reservoir	PAO Synthetic Extreme Pressure Gear Lube	Mobilube SHC [®] 75W-90, Mobil 1 Synthetic Gear Lubricant
Cutter Shaft and Ground Roller Shaft (Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease [®] CM-S
Drive Shaft Coupler (Rotary and Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease [®] CM-S
Boom Swivel, Boom Cylinder Pivots (Rotary and Flail Boom Type)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease [®] CM-S
Deck Boom Pivot & Deck Stop Adjustment (Rotary and Flail)	Grease Gun	Lithium Complex, NLGI 2 ISO 320	Mobilgrease [®] CM-S
Deck Spindle (Rotary)	Grease Gun	Tiger Spindle Lubricant	Mobilith SHC 220

HIÌÍG ₩₩₽ŸÖÜŒ₩ŠÔÔÁVŒÞS



ITEM	PART NO.	QTY.	DESCRIPTION
F	50023 €€Ï Î € F H-UJÎ	AVAIL F F	Manual Canister Complete ÜUWÞÖÁ ŒWŒÁÔŒŴVÒÜ ÖÒÔŒÂĴ₽ÒÒVÊA ŒWŒÁÔŒŴVÒÜ
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 Î 	AWAE HHIÍH HGUÎ HGUÏ	OEXOESS F F F	ùúòôgađájüuövôvát gengš òát águgzòvýát gengš øüuþvájöpòùgàájgö üòguájátöpòùgàájgö
J	ÎVÊ	i	ZŴÁŴÆI +ÆŬÞÕ

NOTE:

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FEDERAL LAWS AND REGULATIONS

V@ā Á^&dāt}/ās Aštor da Aštor

Employer-Employee Operator Regulations WÈÙĚÚ˘à |३८,ÁŠæ; Á/FÉ JÎ ÁÇV@ Á⁄ ã|lãæ; ●ËÙ☆ã ^¦ÁJ&&č] æãa; }æãa; }æáa; à áA?^æc@ÁDBoá; ÁFJÏ €DÁUÙPŒ

This Act Seeks:

%bbbc; Áze••`¦^Á[Áze¦Áze;Á;[••ãa|^Á;ç^¦^Á[¦\ā]*Á; æ)Áze)åÁ;[{æ)Áze;å, áze;Á; æ]Áze;å, áze;Å;Å @æ¢c@`|Á,[¦\ā]*Á&[}åãaā;}•Áze;åÅa[Á;¦^•^¦ç^Á;`¦Á@{æ)Á^•[`¦&/•bbb;

DUTIES

OSHA Regulations

Employer Responsibilities:

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- $H\dot{E} U^{+} \{ \tilde{a}d_{\bar{A}} \} | \hat{A} \\ \dot{A}
- IÈ Tænāj cænāj Áx@ ÁV¦æ&d[¦Áxe) å ÁQ[]|^{ ^} ofáj ÁxeÁr æ^ Á[]^¦æænā[}æ4Á&[}åñaā[}Áxe) å Á(ænāj cænāj Áxe)|Å @at\|å•Áxe) å *`ælå•Á[}Áx@ Á``ā]{ ^} cÈ
- ÎÈØ[¦àãåÁs@/Á^{]|[^^^Á;]^¦æq[¦Áq[Ásæd;l^Ásæååãaã;]}æ‡Áãå^¦•Á;}Ás@^Áx¦æa3q[¦Á;¦ÁQ;]|^{{^}&`
- ÏÈÚ¦[çãa^Ás@Á^č ă^åÁş[[|•Áş[Á; æā)æanð Ás@Á/¦æ&q[¦Ása)åÁQ;]|^{ ^} ófsjÁsæ^[[åÁ;æ^Á;[]åÁ;æ^Á;] åãaā] æ)åÅ,'[çãa^Ás@Á,^&^•eæ^Â`]][¦ófsa^çã&^•Áş[Á^&č ¦^Ás@Áč ă]{ ^} ófA;æ^|^Á; @ap^Å]^!-[;{ ā]*Á^]æā æ)åÅ^\;çã&^È

Child Labor Under 16 Years of Age

Ù[{ ^ Á^* ː |æaā] } • Á*] ^ &ã~ Ás@eacÁ, [Á;] ^ Á`} å^¦ Ás@ Áset ^ Á; ∠Árî Á; æê Á;] ^ ¦æasA, [, ^ \ Á; æas@aj ^ ¦ ˆ ÈÁsQÁse Á [ː ¦ |^•] [} • ãa ājāć Á§[Á } [, Á @eacÁc@ • ^ Á^* ː |æaā] } • Áset^Ásj Á [ː ¦ Á;] Áset^æát, ¦ Á ãč æaā] } ÈÁQÜ^~ \ Á§[Á [č ¦ A Šæà [¦ÉÝO{] |[^ { ^} að dæaså ÁSTá { āj ã dæaā] } ÊÁ æt ^ ÆA ÁB ÁP[{ ^ AÖãçãe ã] } ÊÝ @asati } ÊÝ @asati } ÉÝ

ASSEMBLY SECTION

Assembly Section 2-1

ASSEMBLY

Before attempting to mount your Tiger mower, it is important to read and understand all of the safety messages in the Safety Section of this manual.

Check complete shipment list against the packing list to make sure there are no shortages. Make certain the tractor model is the appropriate one for the mower received!

Always use a floor jack, hoist or fork lift to lift and raise heavy parts.

Read and understand the entire Assembly Section instructions before attempting to mount your Tiger mower. Refer to the Parts Section of this manual for detailed illustrations to locate all parts. (*ASM-C-0001*)

TRACTOR PREPARATION

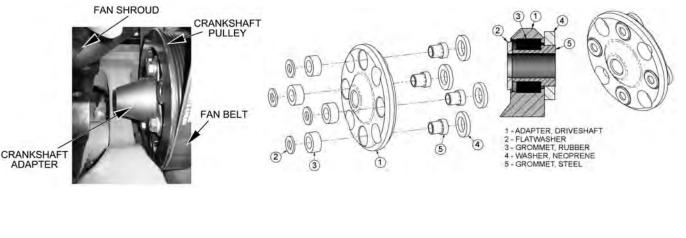
- A. Remove right and left hand steps.
- B. Disconnect battery cables from both batteries.
- C. Remove engine side panels, or raise hood to access front pulley.
- D. Remove plugs from tractor casting where mainframe and pump mount will be attached.
- E. Remove any front weights and weight supports.
- F. Raise the tractor onto jack-stands and remove the right and left rear wheels.

(ASM-JD-0001)

🗚 WARN IN G

CRANKSHAFT ADAPTER

If necessary, remove the four capscrews from the crankshaft pulley. Then install the crankshaft adapter to the pulley with capscrews and lockwashers as shown in the Parts Section. (ASM-JD-0051)



ASSEMBLY

FRONT CRANKSHAFT PULLEY

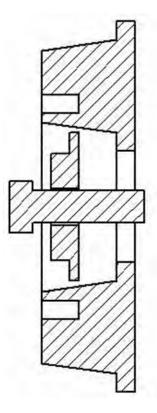
Tiger has found that the front crankshaft pulley used by John Deere will not allow for the installation of a front drive system. You will need to order a different pulley, washer and bolt from John Deere to allow for a front drive to be installed on your tractor.

Inspect the front pulley on your tractor to verify you have the correct pulley needed to mount the spacer plate. If your pulley has the (4) four holes needed to mount the spacer, your pulley is the correct one needed. If your pulley does not have the (4) four holes in the pulley, you will need to order the correct pulley, washer and bolt from John Deere.

PARTS REQUIRED TO PURCHASE FROM JOHN DEERE:

Pulley from JD - R516320 Washer from JD - R517237 Bolt from JD - R516648 Torque on the pulley bolt with Loctite is 369 lb-ft.





Solution:

- 1. Clean nose of crankshaft using TY16285 clean and cure primer.
- 2. Apply a light 2-3mm bead of TY15969 retaining compound around the leading edge of the crankshaft nose.
- 3. Dip damper mounting capscrew in clean SAE30 engine oil (Always use a new capscrew).
- 4. Position damper/pulley on the crankshaft and thread capscrew up tight (do not rely on the capscrew to pull the pulley straight onto the taper).
- 5. Tighten capscrew to specification 500Nm (369lb-ft) (the engine will most likely have to be pinned).
- 6. Measure run-out on the pulley, spec is 0.003" or less.
- (ASM-JD-0080)

Assembly Section 2-3

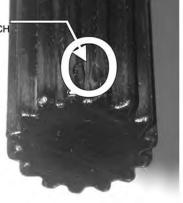
ASSEMBLY

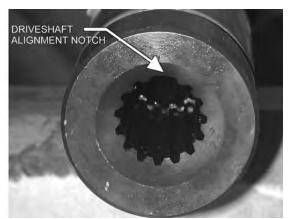
DRIVESHAFT AND FRONT PUMP MOUNTING

Install spacer plate on tractor engine using bolts and lockwashers as shown in Parts Section. Grease sleeve section of the driveshaft and install from the side of the engine compartment. Once you have the sleeve section in place, bolt to spacer plate using bolts and lockwashers as shown in Parts Section. Install shaft end of driveshaft through opening and into driveshaft sleeve. Shaft and sleeve yokes should be aligned, if shaft does not insert easily in sleeve, turn shaft 180°, and then install. Align the notches on the shaft and yoke tube as shown in picture below. **Shaft end must be installed in correct orientation, failure to do so may result in damage to tractor and/or driveshaft.** After installation of shaft end, install pump mount. Next, install pump. After pump is secured, install driveshaft in to pump shaft. The end of driveshaft should be no more than 1/2" away from contact with pump housing. Tighten crimping bolt on driveshaft. Lube driveshaft and check all hoses, flanges, the pump, pump mount, driveshaft and mounting plate to ensure all fasteners are tightened before operation.

CAUTION: DO NOT START THE TRACTOR UNTIL ALL HOSES ARE ATTACHED, TANK IS FILLED WITH PROPER OIL AND BALL VALVES ARE OPEN! STARTING AT THIS TIME WILL CAUSE SERIOUS DAMAGE TO THE PUMP. (ASM-JD-0007)

DRIVE SHAFT ALIGNMENT NOTCH





ADJUSTING REAR WHEELS

Raise rear of tractor onto jack-stands. **Follow the instructions in the tractor owner's manual for adjusting tires and rims**. The back wheels MUST b e adjusted to the wid est setting. NOTE: This may require switching the wheels to opposite sides of tractor. Also take note of any width restrictions when transporting by trailer. (For ease of installation, it is best to leave the rear wheels removed during installation of the mower.) (*ASM-B-0001*)

POLYCARBONATE SAFETY WINDOW

NOTE: Installing a boom mower requires that all of the right side windows be replaced or protected with a polycarbonate window. This should be done before mounting the mainframe.

1. Disconnect gas shock at door. Remove the right side cab door/window glass from tractor cab by removing hinge pins. Also, remove rear right side window.

2. Remove the existing hardware and discard factory glass door and window.

3. Place small bead of adhesive seal in the bottom of the trim lock bubble seal.

4. Install trim lock bubble seal on polycarbonate starting at the center bottom horizontal portion.

5. Install existing hardware removed from glass door and window on the polycarbonate.

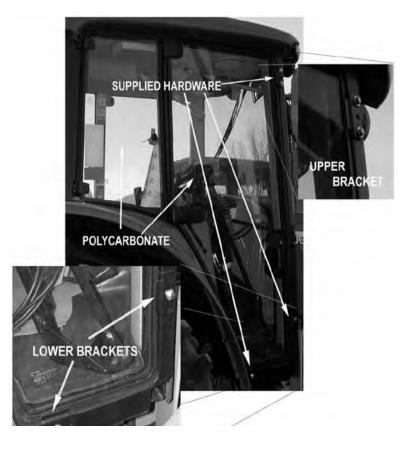
6. Install the polycarbonate assembly in the cab with existing and supplied hardware.

7. Place the retaining brackets on the upper front and lower front (if applicable) of the cab door/window with the 8mm capscrews.

8. Place the last bracket at the bottom of the door by the fender as shown in the illustration below. Hold the bracket in place and mark the door jam.

9. Drill a 21/64" hole in the door jam for the 5/16" capscrew and mount the bracket.

10. Install the right rear poly window into place where the factory window was removed (if applicable). (ASM-JD-0052)



Assembly Section 2-5

PANORAMIC POLYCARBONATE SAFETY WINDOW

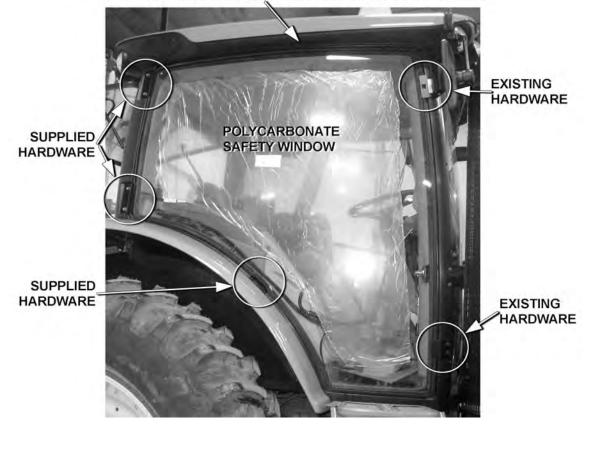
NOTE: Installing a boom mower requires that all of the right side windows be replaced or protected with a polycarbonate window. This should be done before mounting the mainframe. John Deere R series tractors require a panoramic safety window.

- 1. Disconnect gas shock at door. Remove the right side cab door/window glass from tractor cab by removing hinge pins.
- 2. Remove the existing hardware and discard factory glass door.
- 3. Place small bead of adhesive seal in the bottom of the trim lock bubble seal.
- 4. Install trim lock bubble seal on polycarbonate starting at the center bottom horizontal portion.
- 5. Install existing hardware removed from glass door and window on the polycarbonate.
- 6. Install the polycarbonate assembly in the cab with existing and supplied hardware.

7. Place the existing and supplied retaining brackets on the upper and lower front and rear of the panoramic cab window.

8. Locate the third fender screw from the bottom and place the retaining clip between the fender and the cab.

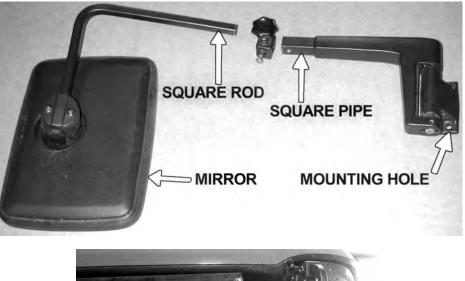
9. Apply RTV silicone liberally along the entire length of the top edge of the polycarbonate safety window. (JD-0052_pan)

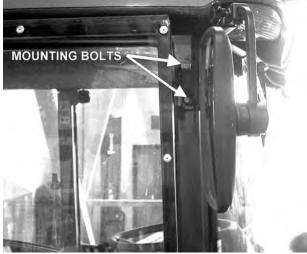


APPLY RTV SILICONE ALONG ENTIRE TOP EDGE OF WINDOW

SIDE MIRROR MOUNTING

Disassemble the right side mirror bracket. Cut the square rod and pipe (shown in picture below) 6-1/4". Assemble them together. Mount the right mirror bracket and hardware on the upper right corner of the tractor cab as shown in picture below. Refer the Parts Section--safety screen, cab for hardware details. (*ASM-JD7220-0001*)





MAINFRAME INSTALLATION

With an overhead hoist and / or jack-stands, raise one side of the frame up to the correctly matching mounting holes. Install capscrews and other hardware to secure the sides of the mainframe to the tractor casting, as shown on the tractor mount kit page in the Parts Section. DO NOT tighten at this time. Remove the capscrews one at a time and apply a thread locking agent. Reinsert the capscrews and tighten / torque to values noted in the torque chart located in the Maintenance Section of this manual. (*ASM-C-0003*)

SWITCHBOX WIRING

Power for the switchbox is accessed through the port located on the right rear of the cab. A John Deere plug is used, part number RE67651. DO NOT connect the plug to the cab port until the wiring is completed. The wires in the plug are colored RED, BLACK and ORANGE. The RED wire will always be hot, so it needs to be capped. Attach connector 34538 to end of RED wire and tape wire back on itself. The BLACK and ORANGE wires are hot when tractor key is turned to "on." Connect the BLACK wire of the plug to the BLACK wire from the switchbox. Then connect the ORANGE wire of the plug to the RED wire from the switchbox. **IMPORTANT: In some cases the red and orange wires may be switched.** ALWAYS test the wires to be certain which wire is which.

The two GREEN wires must be connected to the neutral safety wire by cutting the neutral safety wire and connecting one GREEN wire to one end and the second GREEN wire to the other. Refer to the switchbox schematic and wiring diagram for additional information.

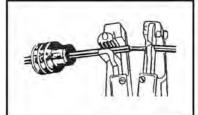
The Neutral Safety wire is a brown wire located under steering column. Cut a slot in the right side of column to access, WATCH OUT for existing wires.

After connecting the power to the switchbox, route the white wire along the cables or wires to the solenoid valve. (ASM-JD-0245)

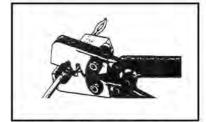
WEATHER-PACK / METRI-PACK ASSEMBLY

These instructions apply to both Weather-Pack and Metri-Pack connectors.

NOTE: Use the specific tool for the type of connector you are assembling. (ASM-C-0009)



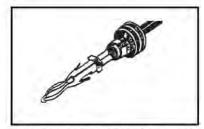
1. Apply seal to cable, before stripping insulation.



3. Put terminal in crimping tool, then position wire and seal in place.



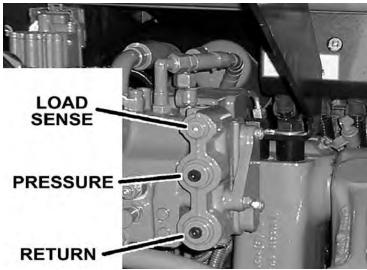
2. Align seal with cable insulation.



4. Crimp and visually inspect for a good crimp before installing in connector body.

HYDRAULIC PORTS

These ports are located at the rear of the tractor, under the lift valve, where the valve mounting bracket attaches to the tractor. The load sense port is on top, then the pressure and finally the return port, as shown in the image below. Refer to the Parts Section for additional information. (*ASM-JD60-7030-0004*)



PRESSURE LINE INSTALLATION

The hydraulic pressure line will be plumbed into the rear of the tractor remote valve. Locate the pressure port on the rear remotes and remove the plug (refer to the Hydraulic Ports illustration and the Parts Section pages for position of the pressure port). After the plug is removed install 27mm adapter. Next, connect a 1/2" hose from the tractor remote valve to the Tiger valve. (*ASM-27mmPRESSURE-0001*)

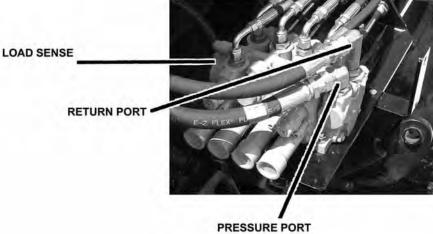
RETURN LINE INSTALLATION

The return line will be plumbed next to the pressure line on the tractor remote valve. Locate the return port and remove the plug (refer to the Hydraulic Ports illustration and the Parts Section for the position of the return port). After the plug is removed install 27mm adapter or elbow. Next, connect a 1/2" hose from the tractor remote valve to the Tiger valve. (ASM-27mmRETURN-0001)

LOAD SENSE LINE INSTALLATION

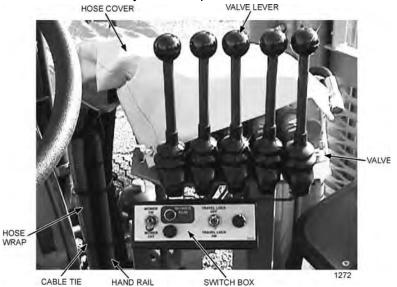
The load sense line will be plumbed into the bottom of the tractor remote valve (refer to the Hydraulic Ports illustration and the Parts Section pages for the position of the load sense port). Locate the plug on the tractor rear remotes for the load sense, and remove the plug. Install a 14mm adapter or elbow and run a 1/4" hose from the remotes to the Tiger valve. Refer to the Parts Section pages for an exploded diagram of the tractor remote valve hookup. (*ASM-14mmLOAD SENSE-0001*)





MANUAL SWITCHBOX MOUNTING

The switchbox is to be secured to the operator's side of the control handles, or valve stand. Refer to the Parts Section for assembly and components needed.



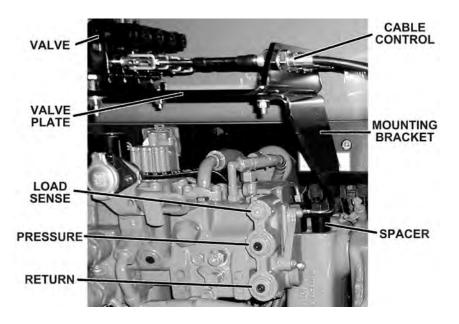
(ASM-C-0053)

(ASM-C-0057)

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VALVE MOUNTING

Locate the existing holes on top of the tractor remote valve at the rear of the tractor. Spacers are needed under the valve mounting bracket to raise the valve mounting system to the required height. Secure the bracket to the tractor with hardware shown in the Parts Section of the manual. Attach the valve mounting plate to the valve mounting bracket on the rear of the tractor as shown below. Align the holes for the cables on the Husco control valves and center the Danfoss valve on the valve plate. Then align the holes on the valve with the plate holes and secure the lift valve on top of the mounting plate. Route the hydraulic lines from the lift valve to the hydraulic cylinders as noted on the lift valve page of the Parts Section. Install the control cables to the valve and the mounting plate on the Husco valves. On the Danfoss valves, attach the electrical control cables. (ASM-JD7X30-0001)



18

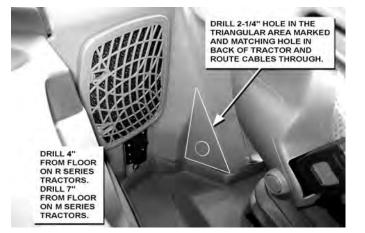
CABLE CONTROL LEVER STAND

On the corner cab post, mark a point at 1-3/8" from the windshield and 22-1/2" from the floor; then cut a 3/4" diameter hole through the outer plastic shell. This will expose a threaded steel boss to attach the control box support bracket.

The rear corner of the cable control stand is placed approximately 6-1/4" from the edge of the mat. The front edge of the stand is up against the corner cab post and the door sill lip of the mat. Before you mark or drill any holes, check for support plates or wires under the mat and the cab floor. NOTE: Cutting into plates or wires makes more work for everyone and could be dangerous. When you know where the wires/plates lie, mark one of the mounting holes. Drill a 3/8" hole through the mat and through the floor of the cab. Next, lift the mat up and mark the other two holes on the cab



floor. Drill the holes through the floor. Mark the mat and drill the other two 3/8" holes.



Use a 1" hole saw and cut a 1" hole through the mat over each 3/8" hole. Secure the stand to the floor with the spacers, capscrews and nylock nuts provided.

Secure cables and wires from the control stand with zip ties and route past the right side of the driver's seat. Drill a 2 1/4" diameter hole in the triangular area behind the driver's seat. Drill a hole to the outside rear of the tractor.

Wrap the cables with the 6" split hose at the point they pass through the hole, and secure the zip-ties. Apply RTV sealer in and around individual cables and split hose, inside and outside of the cab for a water tight seal. Install upper support bracket from cab post to the control lever stand.(*ASM-JD CBL MNT-0002c*)



NOTE ON HUSCO CONTROL VALVES

Manual, cable controlled (Husco control valve) boom mowers require check valves with integral restricting orifice (#06502036) installed in the control valve work ports that are connected to the gland ends of the main and secondary boom cylinders. This check valve allows oil to free flow into the gland end of the main and secondary boom cylinders, but restricts flow out of the cylinder, thereby providing proper boom control. This check valve, #06502036 (Vendor #1968R-.063) is similar in appearance to hose adapter #33271 and Adapter #34396, with.06 orifice. These components can be identified as follows, and are to be installed per Parts Section for the lift valve. *(ASM-HUSCO-0001)*

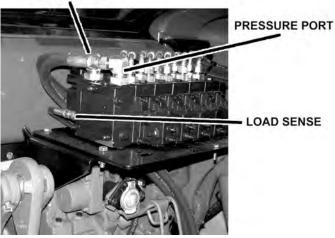


ELECTRONIC LIFT VALVE PORTS

(ASM-C-0089)

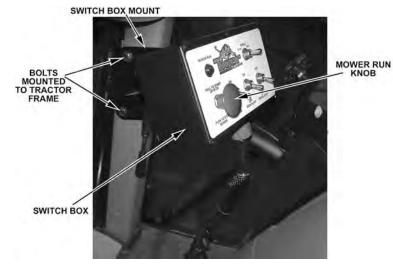
DANFOSS VALVE

RETURN PORT



JOYSTICK SWITCHBOX MOUNTING

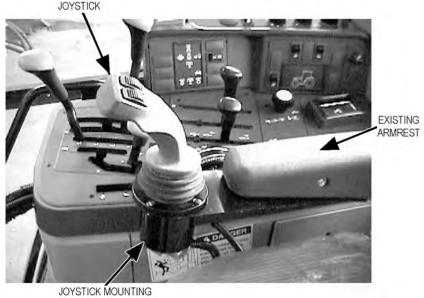
Locate the two holes in the right front corner of the cab frame. These will be the mounting holes for the two mounting bolts of the switchbox bracket. See picture below. Mount the bracket using the hardware supplied, as noted in the Parts Section. (ASM-JD-0081)



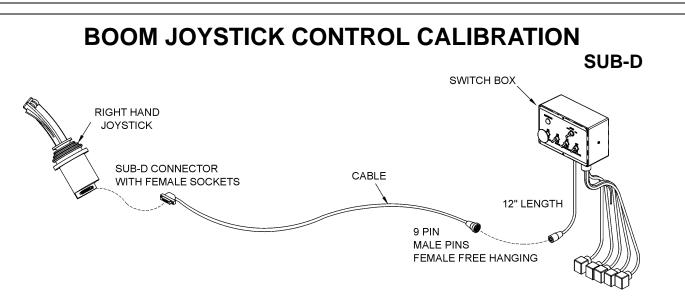
18

JOYSTICK CONTROL MOUNTING

Mounting the joystick control requires that the right armrest be modified and an additional bracket attached to accommodate the joystick. The armrest must be removed by sliding off the plastic cover and removing the capscrew from the lower right side of the seat. This will leave the armrest loose so it can be removed. Once the armrest is removed, place the joystick holder under the armrest, so the indentation on the outside of the armrest is lined up with the hole in the armrest bracket which the capscrew will need to pass through. Once they are lined up, mark the armrest where the hole passes through the armrest bracket. A 1/2 " hole must be drilled thro ugh the armrest so that the bracket can be secured. After the initial 1/2" hole is drilled, on the inside of the armrest the hole must be cut to a larger diameter up to the met al plate in the armrest, so that a sp acer and hex nut can be fastened to the capscrew which will secure the bracket. Install the armrest bracket on the armrest with the hardware shown in the Parts Section. Once the bracket is installed, re-attach the armrest to the seat using the existing hardware previously removed. Then install the joystick in the b racket with the machine screws shown in the Part s Section. Route the lift valve wires from the switchbox through the cab and out the back window. Cover with conduit and secure with ties or clamps as necessary. (ASM-JD-0082)



BRACKET



This Electronic control valve is now equipped with higher-resolution actuators on Main Boom, Secondary Boom, Deck Roll, and Swivel functions. These actuators have active fault monitoring. The Deck Shield section does not have active fault monitoring. The joystick is unchanged and provides a ratio-metric voltage signal. The neutral signal voltage is half or 50% of tractor supply voltage. A 25% signal voltage will shift the valve spool to full A-Port, and 75% signal voltage will shift the spool to full B-Port in the Main, Secondary, and Swivel valve sections. On the Deck Roll function a 34% signal voltage will shift the valve spool to full A-Port and a 68% signal voltage will shift the spool to full B-port. If an actuator with active fault monitoring receives a signal from the joystick that is less than 15% or greater than 85% of supply voltage the actuator will "fault out" and shut down. Also, if there is an internal failure in the actuator or if the spool position is greater than that specified by the signa I voltage from the joystick, the actuator will "fault out" and shut down. An "active fault" condition causes the actuator. The active fault can be canceled by simply cycling the Master Switch OFF and then ON, which resets the fault monitoring, and causes the LED on top of the actuator to be green again.

A CAUTION The joystick control is equipped with signal adaption potentiometers.

These provide the capability to individually adjust the oil flow to each boom function. It is important that the boom functions do not travel too fast. Excessive boom speed can reduce the stability of the unit and decrease operator control.

Note: Use a Ph illips screwdriver and be sure to adjust the screws carefully! DO NOT turn the potentiometers beyond their stopping point, potentiometers are very delicate! Turning the "A" or "B" port potentiometers clockwise increases the oil flow to increase the boom function speed, and turning them counterclockwise decreases the oil flow to decrease the boom function speed. See the graphic on the next few pages for help in adjusting.

BOOM JOYSTICK CONTROL CALIBRATION (CONTINUED)

Run tractor at normal operating RPM to adjust the settings as follows.

Set the dead band compensation potentiometer first.

Set the dead band compensation potentiometer at 50%, or halfway between full clockwise and full counterclockwise.

Setting Signal Adaptation Potentiometers:

Disconnect the Deutsch connectors from the actuators of the valve. Use a V olt/Ohm meter to measure signal voltage and adjust the signal adapt ation potentiometers as needed. Pin #4 is tractor supply voltage. Pin #1 is signal voltage from the joystick, and pin #3 is ground. First, measure supply voltage between pins 4 and 3. Then measure signal voltage between pins 1 and 3 while indexing the joystick function fully in both the "A" and "B" port direction. Divide the signal voltage by the supply voltage to get signal voltage as a % of supply voltage. This percent age should not be less than 25% or greater than 75% for the Main Boom, Secondary Boom, or Swivel function. This percent age should not be less than 30% or greater than 62% for the Deck Ro II function. Note these initial settings for the Deck RoII function should prevent the spool from shifting into float. After making this first adjustment to deck roll if the spool still goes into float, adjust the "B" port screw additionally counterclockwise.

Reconnect Deutsch connectors on control cables to actuators on Electronic valve. Ru n tractor until hydraulic system is at operating temperature. Now refine the adjustments of the signal adaptation potentiometers for both "A" and "B" ports for all proportional functions to achieve the following function times. Note: turning potentiometer clockwise increases the flow or the function speed, and turning them counterclockwise decreases the flow or the function speed. Note, if during this procedure the trim potentiometer is set to full counterclockwise but the function is still too fast, use the mechanical stops at the manual actuator end of the valve section to further limit flow. Turn limit screw in or clockwise to limit flow. The upper limit screw limits flow to B-port, and the lower limit screw limits flow to A-port. However DO NOT adjust the limit screw on B-port of deck roll function. Limiting B-port will prevent float function.

BOOM JOYSTICK CONTROL CALIBRATION (CONTINUED)

MAIN BOOM: "A" Port, Boom Up: 8-10 Seconds (Note: Extend secondary boom completely; roll deck to be level with ground, and lower main boom until deck is on ground. Now index main boom "up" function and determine the time required for main boom to rise completely.)

"B" Port, Boom Down: 6-8 Seconds (Note: Extend secondary boom completely, roll deck to be level with ground, and raise the main boom to "full up". Then index the main boom "down" function to determine the amount of time required for the deck to contact the ground. CAUTION: Stop the boom just as the deck contacts the ground.)

SECONDARY

BOOM: "A" Port, Boom Out: 8-10 Seconds (Position main boom full up, roll deck out until deck cylinder is fully retracted, and bring secondary boom in completely. Then index the secondary boom "out" function and determine the time required for boom to extend out completely.)

"B" Port, Boom In: 8-10 Seconds (Position the main boom full up, roll deck out until deck cylinder is fully retracted, and extend secondary boom completely. Then index the secondary boom "in" function and determine the time required for boom to come in.)

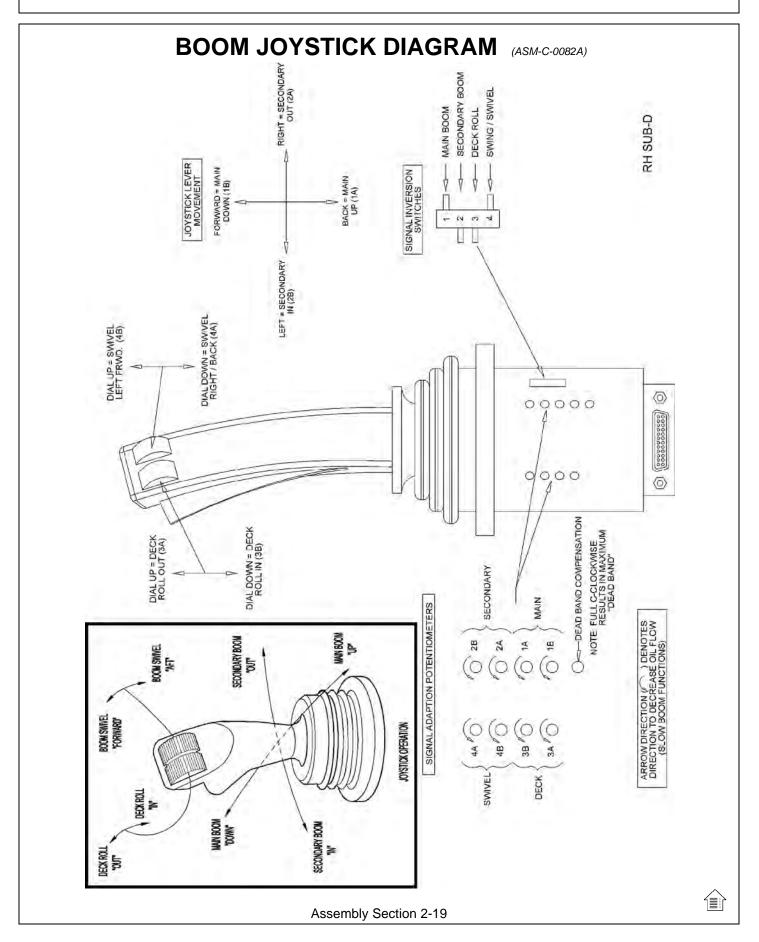
DECK ROLL: "A" Port, Deck Out: 7-9 Seconds (*Raise main boom to vertical, extend secondary boom out slightly so that deck can be articulated without contacting the main boom, and roll deck in until deck cylinder is completely extended. Then index the deck roll "out" function and determine the time required for the deck to roll out.*)

"B" Port, Deck In: Target 7-9 Seconds (but DO NOT use Limit Screw) (Raise main boom to vertical, extend secondary boom out slightly so that deck can be articulated without contacting the main boom, and roll deck out until deck cylinder is completely retracted. Then index the deck roll "in" function and determine the time required for the deck to roll in.)

BOOM

SWIVEL: "A" Port, Boom Aft: 14-16 Seconds for 3PS, 3OS, SS (Extend booms completely; rotate head to be level with ground, lower main boom until deck is just above ground, and swivel boom full forward. Then index the boom swivel "aft" function and determine the time required for the boom to swivel full aft. Use caution when doing this, stop boom before main boom contacts tire.)

"B" Port, Boom Forward: 14-16 Seconds for 3PS, 3OS, SS (Extend booms completely, rotate head to be level with ground, lower main boom until deck is just above ground, and swivel boom aft until near tire. Then index the boom swivel "forward" function and determine the time required for the boom to swivel full forward.) (ASM-C-0082)



REAR STOW BENGAL HOSE ROUTING

WARNING NOTE: The sudden release of hydraulic pressure could cause the su dden movement of very heavy parts. Anyone in the way of these parts could be severely hurt or killed. DO NOT ALLOW these hydraulic hoses to BREAK or BURST. To prevent hydraulic failure make sure the hoses do not pin ch or stretch as boom moves. Measure TWICE, check TWICE then proceed with caution.

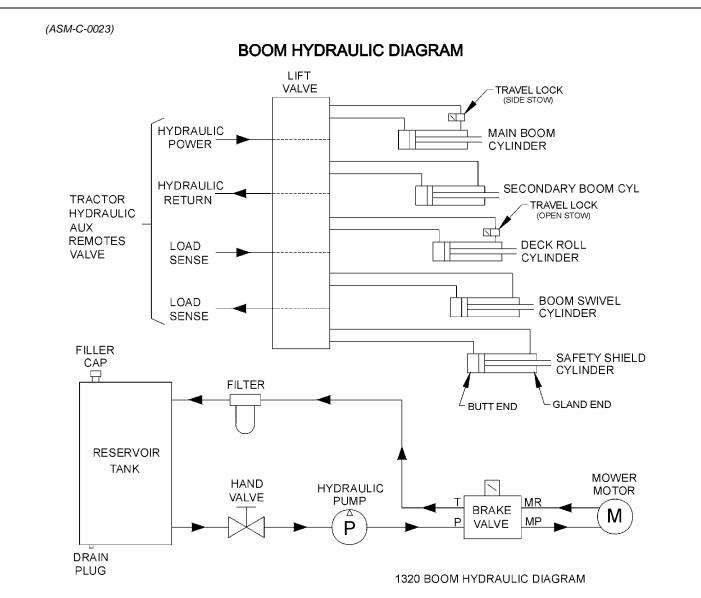


Route the hoses through the space between the swivel and the mainframe. Connect the hoses to the brake valve. Asse mble the swivel clamp and place the return hose for the mo tor in the middle and the pressure line on the bottom. Place the 1/4" hoses in the top clamp and wrap the hoses with a split hose before tightening the clamp. If not all of the 1/4" hoses fit, route two of the hoses above the clamp and secure them to the other hoses with a zip tie. Make sure there is enough slack for all hoses to pivot at the joint where the main boom arm bends in the swivel, and tighten the hoses in the clamp. Wrap the hoses on either side of the clamp with the hose wrap. This will protect the hoses from abrasion and heat. (ASM-T4 HOSE ROUTING-0001)

REAR STOW BENGAL HOSE ROUTING (CONT.)

Arrange the hoses in the clamp that attaches to the boom mounting bracket, with the 1" motor hoses closest to the bracket and the return hose closest to the boom arm. Pull the hoses snug from the swivel to the mounting bracket clamps, when main boom is still forward, and tighten the hoses in the clamp.

Make sure the 1" motor hoses do not kink as the boom arm is moved into the stowing position. If this happens the motor hoses will have to be shortened, because there is too much hose between clamps. (ASM-30S, 3PS HOSE ROUTING-0001 T4)



WHEEL WELL HYDRAULIC TANK INSTALLATION

Install all fittings and tubes into tank and tank filter as shown in the Parts Section illustration. Insert tank sight glass onto the tractor side of the tank.

Place the tank in the mounting bracket on the axle brace as shown in the Parts Section. Secure the tank with the hardware provided.

Install the filter gauge into the filter housing so that it points to the rear of the tractor and is clearly visible to the operator. The tank breather cap is ready for use as the tank is filled. Some of these items may already be installed. (*ASM-C-0103*)

WHEEL SPACERS

When mounting a boom mower, a spacer kit is needed for both rear wheels (part # 06200637). After removing the wheels attach the spacer to the wheel portion of the axle with the hardware provided. When you are ready to re-attach the wheel, the wheel goes on first then the reinforcement ring and finally the hardware provided. (*ASM-JD-0099*)

Assembly Section 2-22

FILLING HYDRAULIC RESERVOIR

Refer to the Maintenance Section for filling specifications and hydraulic oil requirements.

NOTE: Starting or running your Tiger mower before filling reservoir will cause serious damage to the hydraulic pump.

(ASM-C-0004hydro resrv)

INSTALLING O-RING FITTINGS

Installing straight, 45° and 90° O-rings requires that the O-ring and washer be up against the swivel body. Insert the swivel and turn in until the swivel is pointed in the desired direction and O-ring contact is made. Hold swive I in set direction with a wrench and turn the O-ring nut away from the swivel body and carefully tighten. (ASM-C-0056)

INSTALLING NATIONAL PIPE FITTINGS

Whenever installing a pipe fitting, wrap the threads clockwise (looking at the end) with teflon tape. In this way, the tape will be tightened when installed. NOTE: It is not necessary to tape O-ring fittings, or those installed in swivels. (ASM-C-0088)

PREFORMED TUBE INSTALLATION

Lay booms on floor so that the side with the clamp plates is up. Locate all tube clamp s and install them loosely onto the clamp plates.

Arrange the tubes and hoses as outlined in the Common Parts Section. In stall the tubes closest to the boom arm first, being careful not to pinch the tubes. Place the other tubes outside of the first tubes. Snug all clamp bolts, but do not tighten. Check all tubes for correct alignment and that none are pinched or bent. The clamp bolts can now be tightened. (ASM-C-0085)

GENERAL HOSE INSTALLATION

Refer to the Parts Section for detailed information about hoses and fittings for this application. (ASM-C-0011)

HOSE COVERING

Secure hoses together with zip ties wherever loose. Wrap the hoses between the swivel and main boom with the hose cover provided. W rap the hoses between the main boo m and secondary boom with the hose cover provided. Where hoses may contact the frame or other edges, wrap with split hose and secure with hose clamps or zip ties.

On non-cab units, the pressure and return hoses from the control valve will also need to be routed inside the protective hose wrap. Cover the valve and valve fittings with the hose cover and secure with the string provided. (*ASM-C-0058*)

ACCUMULATOR INSTALLATION

Install the accumulator bracket on the right mainframe mast or lift valve mount, if applicable, with the capscrews, lockwashers and spacers, if applicable, as shown in the Parts Section. Install the accumulator in the bracket and secure with the hardware shown. Install fittings and hoses to the cylinder and control valve as shown in the Parts Section. **Use teflon tape on all pipe fittings (except O-rings).** (*ASM-C-0012*)

Assembly Section 2-23

SOLENOID BRAKE VALVE

Install a solenoid valve on the mounting bracket with the supplied hardware as shown in the Parts Section in this manual. While installing the fittings to the brake valve, the electrical coil on the spool may have to be removed to make room. When reinstalling the coil, it is important to use no more than 5 ft. lbs. (or 60in. lbs.) torque. **WARNING: OVER TORQUE TO THE COIL WILL RESULT IN HYDRAULIC FAILURE OF SPOOL.** (ASM-C-0025)

TEMPERATURE GAUGE MOUNTING (OPTIONAL)

Mount the temperature gauge where it is clearly visible to the operator. Attach the green (-) wire from the negative post on the gauge to a grounded bolt on the tractor frame. Remove paint if needed to make a good ground. Remove the pipe plug from the side of the hydraulic reservoir and install the temperature sensor using thread sealing tape. Run the white wire from the (s) sensor post of the gauge to the temperature sensor on the hydraulic reservoir tank. (ASM-C-0051)

WHEEL WEIGHT MOUNTING

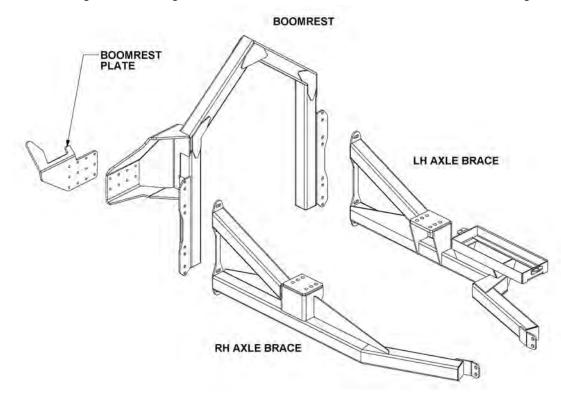
For all tractors using a boom mower, a wheel weight will be required for the rear left side wheel. It will be necessary to mount the weight in the wheel using the long capscrews, lockwashers, flatwashers, spacers (if applicable), and hex nuts per the diagram in the Parts Section.

Installation is most easily done with a fork lift, inserting a fork in the center slot of the wheel weight. The head of the capscrews is to be toward the OUTSIDE of the weight, with flatwashers on both the inside and outside of the assembly.

The left rear tire may also be filled with a mixture of water and calcium chloride at about five pounds per gallon. Tire air pressure should be maintained according to the Maintenance Section. (ASM-C-0055)

OS AXLE BRACE MOUNTING

The open stow axle braces are to be mounted under the rear axle of the tractor. The other end of the axle brace mounts on the outside of the lower rear corners of the mainframe. After attaching the boomrest, it should fit tightly and level under the tractor. Attach the axle brace(s) to the mainframe with hardware shown in the Parts Section and tighten. Attach the axle braces to the rear axle using the mounting hardware shown in the Parts Section, but DO NOT tighten.



OS BOOMREST MOUNTING

Carefully raise the open stow boomrest and align the holes with those of the axle brace. Now install all attaching hardware, as shown in the Parts Section, loosely, to allow for the alignment with the left and right axle brace. Tighten / torque all hardware on the brace and the boomrest. Finally, add the boomrest plate to the boomrest as shown in the Parts Section. (ASM-JD-0246)

DECK ATTACHMENT

The pivot assembly is used to attach the head to the secondary boom. Install the deck pivot cylinder using the pins and hardware, which is illustrated in the Common Section.

Connect the fittings and hoses from the pivot cylinder to the small preformed tubes on the boom arm. Connect the fittings and hoses from the motor to the large preformed tubes on the boom arm. Connect all remaining hoses from the control valve to the cylinders and / or preformed tubes on the boom arm. Refer to Common Section for diagrams. (ASM-C-0018)

ELEVATED BOOMREST ADAPTER

When using a Tiger Bengal boom with a flail mower in conjunction with a rear flail mower it is necessary to add an elevated boomrest adapter to allow the boom mower to fit properly in the boomrest saddle.

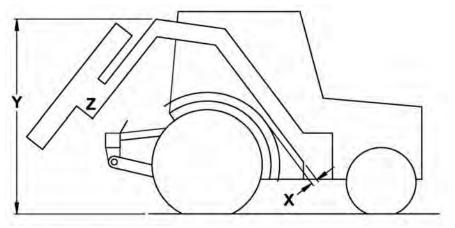
See the Parts Section for hardware and mounting information. (ASM-JD-0255 boomrest)



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3-POINT BOOMREST MOUNTING

Install the boomrest onto the 3-point hitch using the pins as shown in the Parts Section. Adjust the bottom arms so the boom clears the tractor fender (X); adjust the top link so that the boom saddle is approximately level with the ground. Re-adjust once the boom is completely installed and operable. Adjust the top link until the boom is properly seated in the boomrest (Z) and no part of the boom (including hoses) comes into contact with the tractor cab. Using the side turnbuckles, adjust the boom and boomrest all the way to the right for proper width restrictions. Check your local width regulations before transporting your mower. You may need to adjust the boomrest for overall height as well (Y).

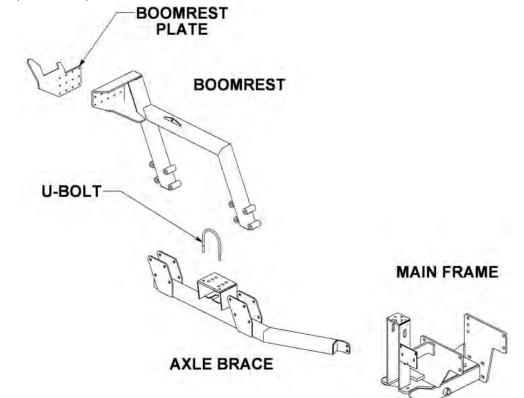


(ASM-C-0054)

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SINGLE COLUMN BOOMREST MOUNTING

Carefully lower the boomrest and align the holes with those of the axle brace. Now install all attaching hardware, as shown in the Parts Section, loosely, to allow for the alignment with the axle brace. Tighten / torque all hardware on the axle brace and the boomrest. Finally, add the Boomrest Plate with the ha rdware provided so it line s up with the boom in the rear stowing position. (*ASM-JD-0053*)



MAIN BOOM INSTALLATION

Using a hoist, install the boom swivel into the mainframe as shown in the Parts Section. Line up holes in swivel and mainframe for large swivel pin and insert pin. Secure with hardware as shown.

Attach the inner end of the main boom to the swivel bracket with the cylinder anchors positioned upward, and at a right angle to the tractor. Secure it with the horizontal hinge pin. Secure the hinge pin in the boss with capscrews, etc. (see Parts Section).

Attach the butt end of the main boom cylinder to the swivel with the cylinder pin and roll pins shown in the Parts Section.

Install the travel lock on the rod end of the main boom cylinder. This should be facing the butt end of the cylinder after installation.

Install the fittings and hoses to the main boom cylinder per Parts Section.

GREASE HINGE PIN ZERKS ON BOOM AFTER ASSEMBLY, ONCE UNDER LOAD WITH BOOM ELEVATED, AND AGAIN AT REST WITH BOOM SUPPORTED. (ASM-C-0013)

FINAL PREPARATION FOR OPERATION

Place operator's safety and operation decals on the steering column and side console where they are clearly visible to the operator. These decals should be understood by each operator of the machine in conjunction with the Safety and Operation Sections of this book. The decals are to be maintained in good condition as a reminder to the opera tor, and should be replaced if damaged.

All bosses, pins and pivot points will need to be greased as instructed in the Maintenance Section of this manual. The hydraulic reservoir can also be filled with the recommended fluid (see Maintenance Section) and the filter installed in the top of the tank. Double check all fittings and fasteners BEFORE starting tractor. Also secure any loose hoses together with zip ties and wrap with split hoses where friction may occur on the hoses.

AWARN IN G

BEFORE starting or operating the tractor you must read and understand the Safety and Operation Sections of this manual completely.

BE SURE THE BALL VALVES ARE OPEN! Start tractor and allow instruments to stabilize. Using a piece of paper or cardboard as noted in the Safety and Maintenance Sections, check all fittings and connections for hydraulic leaks.

If a leak is found, you must shut down the tractor and set the cutter on the ground. Before attempting to fix the leak, you must actuate the lift valve handles several times to relieve any pressure in the lines.

Before operating the mower, the cutter head and boom should be slowly moved throughout the full range of motion. Watch for any condition that would cause pinching or excess stress on the hoses. The steering and front axle travel sh ould also be carefully moved through their full range of motion. If any condition occurs in which the hoses contact the tires, the steering and / or front axle travel may need to be limited as de scribed in the tractor operator's manual. This should also be done if the tires rub, or are extremely close to any other part of the mower, such as the hydraulic tank or draft beam. This may include adding shims or adjusting stop bolts in the tractor front to solve the problem. While checking motion, you should also check that the control circuits are connected according to the operator's decal for the valve handles.

MOWER TESTING

Take the tractor to a place free of loose objects on the ground. Operate the cylinders through their full range of motion again, to clear the lines of air. Follow the instructions in the Operation Section to operate the mower. Vibration of the mower should be minimal at all times. After a 5 minute test run, the knife bolts should be retorqued, and retorqued once again after the first few hours of operation.

If any parts of this Assembly Section, or any other section of this manual are not clearly understood you must contact your dealer or the address on the front of this manual for assistance!(ASM-C-0010)



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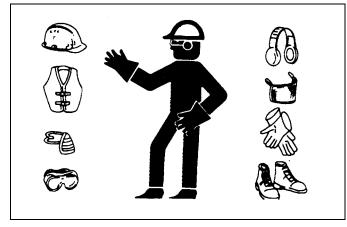
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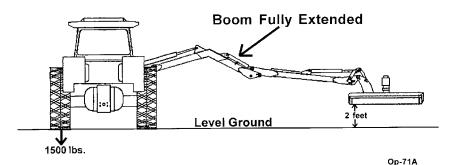
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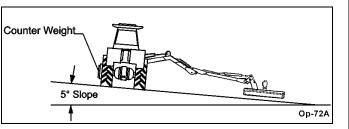
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<u>'";9HH=B; CB5B8C::H<9HF57HCF</u>

Ó^-{¦^Á*^ccā}*Á;}q[Ác@-Át]æ&q[¦Éb@-Á;]^¦æq[¦Á; `•OÁ^æåÁæ}åÁ&[{]|^c^|^Á}å^¦•cæ}åÁc@-Áã;]|^{{ ^}ofæ}åÁc@-Áã;]|^{{ ^}ofæ}åÁt]æ&q[¦ []^!æq[¦Á;æ}`æ†ÞĚÁQÁæ)^Ájæoá(,-Á*ão@!Á;æ)`æ‡ÁãrÁ;[of&[{]|^c^|^Á}å^\+o[[åÉ&[}•`|oÁæ)Áæčo@[¦ã^åÁå^æ†^¦Á[¦ æ4&[{]|^c^Á*¢]|æ}æaã;}ÈÉAOPS-U-0007



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₩•^Ás[c@Á@ea)å•Áæ)åÁ*``ā]]^åÁ@ea)妿a‡+Áæ)åÁ*c^]•Á{[¦Á*`]][¦Ó₄@}Ás[æåå]*Ás@Ás!æ&d[¦ÈÁÞ^ç^¦Á`•^Á&[}d[| |^ç^\•Á{[¦Á*`]][¦Ó₄@}}Á{[ĭ}cā)*Ác@Ás!æ&d[¦ÈÁÛ^æaÉ[ĭ`!•^|~Áā)Ác@Á[]^¦æa[¦qrÁ*^æaÁæ)åÁ*^&`¦^Ác@Á*^æaÁa^|c æ{[ĭ}åÁ[ĭÈ

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Þ^ç^¦Aæļ[, A&@aåi^} A[A] ^¦æe*E4āå^A; E4, |A&[{ ^A&[• ^A&[• ^A[Ac@ A/; a&d [+A;] Q] |^{ } , džAdW * aļ^ÊAFÎ EFÏ Á^ ^adE [|åÁ&@aåi^} Á, @ Áæ^Á { æc : |^Áæ} å [^• •] | } •ãa |^Á&æa Á[] ^¦æe*Ác@ Áā[] |^{ } oÁ, ãc@Áæå | c⁄+ *] ^\çãa ā] ÉÁãÁ@ ^ @æç^Á|^æåAæ} Á[] ^\;æe*Ác@ Áā[] |^{ } oÁ, ãc@Áæå | c⁄+ *] ^\çãa ā] ÉÁãÁ@ ^ @æç^Á|^æåAæ} áA* } å^\• œa à Ác@ ÁU] ^\;æe[\eq ÁT æ} * æ¢ ÉAà^> Á dæa ^ åA]] \[] ^\;áeā [] ^\;áe*A@ Ái @ • æa áC@ AU] ^\;æe[\eq ÁT æ} * áAæ ^ A] @ • æa A[Acæ / Áæ * ^ } [] ^\;áe*A

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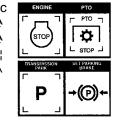
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Ó^-[¦^Áåã{[`}d]*ÁœÁtæ&d[¦É£á|^ÁœÁtæ&d[¦Á*]*ā]^Áå[,}Ê£áã*^}*æ*^ÁœÁœÁœÁœÁæåÁæ)åÁ^dæ&dœÁse@A&[[{ Áæ4{ Át c@Ádæ)•][¦dÝ][•ãã]}ÈÁÚæ\Ác@Ádæ&d[¦Á]}ÁæáA^ç^|Á*`¦-æ&^ÊÝ]|æ&^Ác@Ádæ)•{ã*•ā]}ÁāJÁ}^`dæÅæjååA*^dœ]æ\ā]*Áa¦æ}^ÊÁÛ@då[_}AœÁtæ&d[¦Á*]*ā]^ÊA^{{ [ç^Ác@Á^Êbe}åÅ}æãA^{{ [æ4]}Å{[aasA}{ . (]Áka^-[¦^Á*¢ãā]*Ác@Á]]^¦æt[iqÁ*ætÉÁÞÒXÒÜÁ^æç^Ác@Á*^ætÁ`@áÁc@Ádæ&d[¦Ê566•Á*}*ā]^Êbe}åÁ{ [,^¦Á@æå { [ç^{ ^}œ¢z^Á&[{ ^Át Áæá&[{]|^c*Ád]]È

W•^Á@e)åÁæa‡•Áæ)åÁv¢dæÁv¢]•Á,@}Áv¢ãã)*ÁœAdæ&q[¦ĚÁÓ^Á&æa^~`|Á,-Á[`¦Áv¢]Áæ)åÁ •^Áv¢dæÁ&ečqā;}Á,@} {`åÊÁã&^ÉÁ}[_ÊÉæ)åÁ;c@¦Á;ææc°¦Á@æeÁæ&&č{`|æe^åÁ;}Áx@ Áv¢c]•Áæ)åÁ@e)妿a‡•ĚÁÞ^ç^¦Áč•@á;¦Áö{]Á;~Áv@ dæ&q[¦ĚÁOPS-B-0002

OO2UUOA/ هَجْهَا * هُنْ هُلْ هُلْ هُلْ هُلْ هُلْ اللَّهُمَ مُنْ اللَّهُمُ مُنْ اللَّهُمُ مُنْ اللَّهُمُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُمُ مُن اللَّهُمُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّعُن مُن مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّعُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّعُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّهُ مُن اللَّعُلُمُ مُن اللَّهُ مُن اللَّعُلُمُ مُن اللَّعُلُمُ مُن اللَّعُلُمُ مُن اللَّعُن مُن اللَّهُ مُن اللَّعُلُمُ مُن اللَّعُلْمُ مُن اللَّعُلُمُ مُن اللَّعُلُمُ مُن اللَّعُلُمُن اللَّعُلُمُ اللَّهُ مُن اللَّالِ اللَّعُلُمُ مُن اللَّعُلُمُ اللَّعُلُمُ مُن اللَّعُلُمُ مُن اللَّعُلُمُ مُن مُن اللَّعُلُمُ اللَّعُلُمُ مُن اللَّعُلُمُ اللَّعُلُمُ اللَّعُلُمُ اللَّ





Í 4235'Crco q'I tqwr 'Kpe0

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<u>('GH5FH=B; H<9HF57HCF</u>

V@?Á[]^¦æq[¦Á(`•oÁ@eqc^ÁæxÁ&[{]|^cvÁ`}å^\+oæa)åā]*Á[Áo@A]|æ&?{^}dÊA~}&aā]}ÊÁæa)åÁ[]^¦æqā]}æÁ`•^Á[Áæ4| dæ&d[¦Á&[}d[|•Áà^-{|'^Årœdrā]*Ár@?Ádæ&d[¦ÈÁÜ/çã}, Ár@?Ádæ&d[¦Á[]^¦æq[¦qrÁ(æa)`æ4Áæa)åÁ&[}•`|oÁæa)Aeĕc@[¦ã^å å^æ4^¦Á{¦Ádæ&d[¦Á[]^¦æqā]}Á\$4,•d`&aā]}•ÁãA,^^å^åÈ

Ò••^} cãæ‡Á/¦æ&q[¦ÁÔ[}d[|•K

- ´Š[&æe^Ás@∘Á\$t}ãaāį}Á^^Đjãa&@Á
- ‴Š[&æe¢Áo@°Á?}*ā)^Á:@oA[,~Á&[}d[|
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- ´Š[&æe^Ás@∘Áa≇@xÁ&[}d[|Á́^ç^¦
- ´Š[&æe∿Ás@^Ás¦æè^Áj^忆•Ása)åÁ&|ĭc&@Á
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- Ś[&æe^Áo@^Á+Á][ā]oÁ@aa&@4&[}d[|Á^ç^¦
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- ´Ô[}å`&oÁse||Á,¦^Ë-cæioÁ,]^¦æaā[}Á5]•]^&cā[}Áse}åÁ^^¦ç3&^Áse&&{[¦å3]*Á5[Ás@-Ástæ&d;¦Á,]^¦æa[¦q+Á;æ)`æ|ÈÁ
- ´ Tæ\^Á`¦^Áæ|Á`æbå•ÊA@?N|å•Ê&e}åĄ`@?!Áæ^ĉÁå^ç&?^Á&^&`¦^|^Á身Á|æ&^È
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- V@^Áa[[{ Á[]^¦æaā],*Á&[}d[|●Áad^ÁajÁo@Á,^`dæ4Áao)åA[,~Á][●ãaā[}È
- Ź V@^ÁÚVUÁ&[}d[|Á/^ç^¦ÁãaÁåãa^}*æ**^åÈ
- ´ V@^Á@! 妿ĕ|ã&Á^{[c^Á&[}d[|Á^ç^¦∙Áæ4^Á§)Á c@Á,^čdæ4Á,[•ããā]}ÈÁ

 $\begin{array}{c} & \textbf{DANGER} \\ & \texttt{P}^{A}^{A} & \texttt{A}^{A} À DANGER ÙæłoÁd æ&d[¦Á] }[^Á] @} À] ![]^!/^Á** ævåÁðj Á@^ÁV¦æ&d[¦Á** ^æeÐÁÚ) æåd@ ÁV¦æ&d[¦Á** ^æeÐÁÚ) æåd@ ÁV¦æ&d[¦Á** dæ&d[¦Á** ^ædÁ&æ) Á^• č]óÆj Á** b`l^A** ^æeÆÁÚ ^æåÁ@ ÁV¦æ&d[¦Á**] ^¦æ@[i• { æ}čædÁ[¦Á;![]^!Á(æd:d3) * Á** •dč &d3] }•ĎÁ¢ö≞+D



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Í 4235'Cnco q'I tqwr 'Kpe0

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<u>) "7 CBB97 H=B; 5 HH57 <=B; <958 G HC H<96 CCA</u>

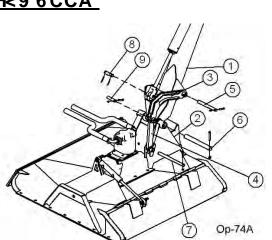
FĚÁÁÚ cæło Áàˆ Áseccæ&@a) * Ác@ Áj ãç[o Áà¦æ&\^c0 FDÁd[Ás@^Áà[[{ (FD *•ā) * Áj āj Ć DÁa) à Á@eelå, æł^ĚÁÞ^^co Ásecæ&@Ác@Á&î |āj å^¦Ád[Ác@]ãt[oÁa:¦æ&\^c0 FDÁ*•ā] * Áj āj Č DÁa) à Á[||Ájā]•È

GĐĂÁ/@}}Áæccæ&@Ác@Aå[*|^*ÇDÁq[Ác@A{{[, ^¦ÇĐÁ(•ā]*Á]ā]ÇD æ)åÁ@æåå,æ^È

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IĚÁV@}Áæ¢ä*}Áo@Áå[*|^*ÇIDÁæ)åÁo@Ájãç[oÁ妿&\^cÇ+DĚAOTccæ&@ jãc@ÁjãjÇIDÁæ)åÁ@æååjæ4^È

Í ÉÁZABjæa¦^Á(;æà^Á*`¦^ÁæakjÁa[|œÉAj`œÉAæakjåAjBj•ÁæakA&at@@^}^åÁ{[¦^&[{ { ^}å^åÁa[;'``^ÉOPS-B-0004_D



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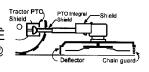
<u>* 'DF9!CD9F5H+CB'+BGD97H+CB'5B8'G9FJ=79</u>

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LAla á að ceir A að •] ^ & cA æir A [çā] * A] æio A - [¦A, ^æ A Að) å A ¦^] |æ& A @ } A & • • æi Á á @ ﷺ c@ ¦ā ^å Á ^ ¦çã & A] æio A - [¦A, ^æ A Að) å A ¦^] |æ& A @ } A & • • æi Á á @ ﷺ c@ ¦ā ^å Á ^ ¦çã & A j æio ÈÁŠ [[\ Á[[• ^ Áæ c'] ^ !• ÉÁ [¦Áà! [\ ^ } Á] æio ÉA∂) å Á / æà ^ Á[¦Á[[• ^ Áãcā] * • ÈÁT æà ^ Á* ` ¦^Áær Á] ā • Á@æç æcææ @ j * Á@æå a & ÈÁÛ ^ !ā * Áj b` !^ Á[æî Á & &` ¦Á'[{ Á [c4 æi] æi æi æi a] * Ác@æ { æ& @ j ^ Áj Á [[å Á [|\ ā] * Á [Å \ ÈÁ¢: œ]



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- ‴ Ùơ^¦ạ * Áạ ∖æ*^
- ŰVUÁ @a\jåÁ
- ‴ ÙT XÁ:ãT } Áãs Á&∥^ æ) Áæ) åÁçã ãã |^
- ″ V¦æ&d[¦qiÁðā @erÁsel^Á&l/^æ)aÅ¥}&æa[i}æ
- ‴ V¦æ&d[¦ÁÜ∕ækÁà^|c/≨rÁ\$jÁ*[[[åÁ&[}åãã[]}Á
- ″ V¦æ&q{¦ÁÜUÚÙÁásÁ§jÁ*[[åÁ&[}åããáj}}
- ″ÜUÚÙÁãi Á§i Áo@∘Áæãi ^åÁji [●ãããji }
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- Űæåãæe[¦Á¦^^Áį, Áå∧à¦ãrÁ
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- ‴ Ò}*ā}^Á&[[|æ}}ơ4^^ç^|Áæ)-åÁ&[}åããã[}Á
- ŰŲĹĮ^¦Áa¦æà^ÁłĭäaÁţ^ç^ĺÁ
- ´´ Ú[, ^¦Áơ^¦ậ * Á¦ ឆ្Ár ç^JÁ
- ∅ ^ |Á&[} åãāā[} Ása) å Á^ç^ |Á
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- "
 OEaiÁajach káu } åãaja } ÁKOPS-U-0030
 "



Ó[[{

U]^¦æaçãį}ÂÛ^&cãį}ÁHËF€

Í 4235'Cnco q'I tqwr 'Kpe0

<u>* "&`6cca`lb]hDfY!CdYfUh]cb`=bgdYWh]cb`UbX`GYfj]WY</u>

Q•]^&oÁæ)åÁ•^¦çã&^Ác@-Áà[[{ Áæd{ Áæ)åÁ@ ænaåÁ]¦ã[¦Á{[Á[]^¦æaā]}}ÈÁÁÖæ{ æt*^åÁæ)åÆD¦Áà¦[\^}Á]ætorÁ•@[`|åÁà^ ¦^]æã1^åÁæ)åÆD¦Á¦^]|æ&^åÁã[{ ^åãæer\îÈÁÁKV[Á^}•`¦^Ác@:Á`}ãaÁãa Á¦^æaå^Á{[¦Á[]^¦æaā]}ÈÁ&[}å`&oÁc@:Á{[||[¸i]]*K OPS-B-0020Á

AWARN IN G

U^¦āįåã&æd¦^Aāj•]^&&Aæd¦A[[çā]*A]ætoA-[¦A],^ædAæd)åA!^]|æ&AA,@} }^& *••æt^Ájã@deet o@[¦ã^åAk^!çã&AÁ]æto ÈXKŠ[[\Á{!Á[[•^Áæet c?}^\+ĒÅ][} [¦Áà![\^}Á]æto ÊÆæd)åÁ{^æt^A[¦Á[[•^Áæicā]*•ÈĂTæt^A*`!^Áæd|Á]ā]•Á@eet æcææ&@3j*Á@etå]æt^ÈAÛ/*!āĮ`•ÁāJb'!^Á{ætÂ{&&`!Á+[{ Á,[cÁ{æad}æeta]ā]*Ác@eta {æ&@3j^Á\$JÁ[[åÅ][!\ā]*Á[¦å^*[ÉÅk]ööter: ce





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ØÜCEF ÒÁCEÙÙÒT ÓŠŸ

- ″ Q•]^&o4%{[}åããậ]}Áţ,-Áỵ́[`}dậ,*Á;¦æξ(^Á,^|å{^}dÈ
- ″ Q•]^&o%&[}åããį}Áį́~ÁŲ,ãç^|ÁOE•^È
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Ü^|að ç^Á@ å læč |a&Á, l^••` ¦^Á, lã; lÁt Áå[ā, * Áæ)^Á, æāj c^} æj &^Á, lÁ^] æāiÁ, [:\\Á;} Áœ ÁQ] |^{ ^} dÉ Ú|æ&^Á;@ ÁT [_ ^!ÁP^æåÁ;} Ás@ Á*;[` } åÁ; lÁ^& &` !^|^Á`]][!c^åÁ;} Áa][& •Á; lÁcæ) å•Ê&aa^} *æ*^ c@ ÁUUUÊæ) åÁč !} Á; -Ás@ Á*} *ā ^ĚÁU` • @æ) åÁ;` ||Áœ Á&[}d[|ÁŠ^ç^!•Á; lÁT[^•cæ3\Á^ç^!æ∮Áæ] ^• q Á^]æç^Á; !^••` ¦^Á; lã; lÁt; Ácæ4cã; *Áæ) ^Á; æāj c^}æ) &^Á; lÁ^] æãiÁ; [!\ĚÁçid*it



Þ^ç^¦ÁŚ^æç^Ác@`Á{ [, ^¦Á`}æœc^}å^åÅ, @ặ^Ác@`Á@`æåÅã;Åg`Ac@`Á'æãa*^å][•ãīā]}ÈÁÁ/@^Á{ [, ^¦Á&[`|åÁæ‡|Á&æ`•ā]* Ár^¦ã[`•Áā]b`¦^Á{[Áæ],^[}^Á, @ { ã @A5jazåç^¦c^}d^Ás^Á`}å^¦Ás@^Á{ [, ^¦∞kµicīti⊡



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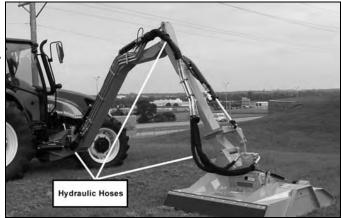
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- [∞] Ô@&\Áţ¦Á@妿`|ã&Áràæi•Áæq[}*Á@ţ•^•ÉA &`|ājå^\'•ÁæjåÁãæcāj*•Ȩ=ADCFH5BHÁKÖUÁ>UVÁ `•^Á[`¦Áœajå•ÁţÁ&@&&Áţ¦ÁţāÁràe•ÈÁW•^ÁæÁ]ãr&rÁţ-Á@æçîÁjæaj^\Áţ¦Á&æaååa[æååÁţÁ&@&&Áţ¦Á @妿`|ã&ÁţāÁràa•ÈÉÁ



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PŸÖÜŒMŚOŎÁUWT ÚÐU ŚŚĂŬÓUÓÜXU OŬ

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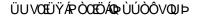


 $\hat{O}@{\ }\&\ \dot{A}c@{\ }\dot{A}_{1}^{*}\ \tilde{a}a\ \dot{A}_{1}^{\circ}c^{\wedge}|\dot{A}_{2}^{\circ}\ \dot{A}_{2}^{\circ}\ \dot{A}_{2}^{\circ}\ \dot{A}_{2}^{\circ}\ \dot{A}_{1}^{\circ}\ \dot{A}_{2}^{\circ}\ \dot{A}_{2}^{\circ}\ \dot{A}_{1}^{\circ}\ \dot{A}_{2}^{\circ}\ \dot{A}_{2}^$

Ü^{ [ç^Á&æa]; Á|[, |^ Áq[Á¦^|ã^ç^Á]; ^••`; ^Áà^-[; ^Á\^{ [çā]; *Á&æa]; Á&[{]|^c^|^ ÉAÙæe`Á&|^æb; Áq]; ^ç^} ó%a^ā]; Á &æaå^å, ã@á@; ó[; ājÁ@æeÁ; æêÁ]; æîÁ; ´ó[; Á@@Áæa); Á@æk%a; Á; cāļ|Á;; /•••`; ã ^å, Áæa); å { æîÁ&æe`•^Á^; ā[`•Áa]; Ď; Â&[Á^^• ÉAæ&? É&æa]; å Á*¢][•^å, A; ā] ÉÁ_{Qru/2223/0 KE+}

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U]^¦æaaji}ÂÛ^&caji}ÁHËFH



- Q•]^&orási|æå^• Áæjåákai|æå^Áa[|œÁ[¦Á[[•^}^^• A••Á æ)åÁv¢&^• ão^Á, ^æÈÁÜ[[ææ^Áa[Á] €»Áa[Á[æà^Á -{¦Á&@&&]å*Á æ•å?¦ÉÁÜ^]|æ&^káææ[æ*^áÈA[[]}ÊÁ æ)åÁ[ã•ā]*Áa]æå^• Áæ•Áa[{]]^c^Á.oráa[Á { æājææjÁ[[œa^Âsaææ] &^È
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‴ Q•]^&okk@Á&(}}åããą)}Á(ÁåA&\Á\ãåÁ@(^•Áæ)åÁ@e#å,æh^Ď#OPS-B-0025



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A DANGER

CEĮÁÙæ^ĉ ÁÙ@A*|å•ĒÁÖ ٘æå•Áæ)åÁ[c@ł¦Á•æ^ĉ Áå^çæX^•Á9j&|ĭå3j *ÁÇā ʿd›[cÁļā[æč^åÁq[DÁË Ö^-∤^&q[¦•ĒÁÙơ^|ÁÕ ˘æå•Áæ)åÁÕ^æà[¢ÁÙ@A*|å•Á{ ੱ•o^áà^Áĭ •^åÁæ)åÁ{ ænaj cæanaj ^åÁajÁt[[å ,[¦\ā]*Á&[}åãaā]}ÈÁ\CEĮÁ< ,[¦Åa¦[\^}Á&[{]]}^}o•ÈÁT ã•ā]*Éáak[[\^}Êák¦Á%[];}Áæ^{4s}o]^&c^ák>æo^ák>æaná] Á{¦Á{ ã•ā]* [¦Áak][\^}Á&[{]]}^}o•ÈÁT ã•ā]*Éáak[[\^}Êák|[\] c@ Á][••ãaājãc Á[-Á5a]b`!^Á;¦Áå^æc@Ák[{ Ác@[]}Åab%&o•ÉA}œaná] *[<{ ^}Cáa}*[{ ^}6A; Åa]æ&cÁ&]; c@ Á][••ãaājãc Á[-Á5a]b`!^Á;¦Áå^æc@Ák[{ Ác@[]}

U]^¦æaāj}ÂÛ^&cāj}ÁHËFI

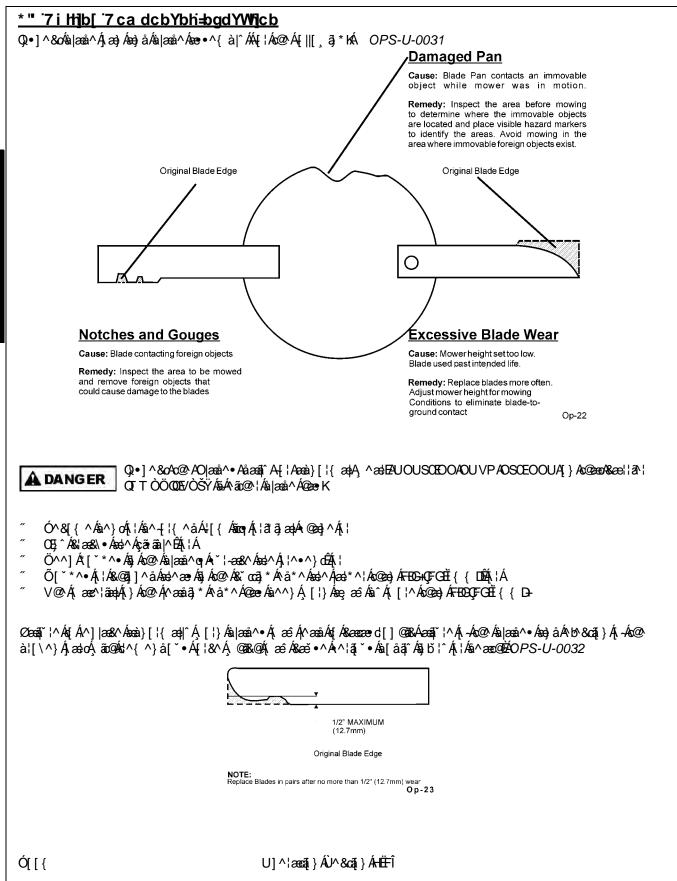
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Op-80 A



CD9F5HCB

Tractor PRE-OPERATION Inspection



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6 YZcfY WcbXiW1jb[`ł\Y`]bgdYW1jcbžaU_YgifY'l\Y`HfUW1cf`Yb[]bY`]g`cZZźU``fcHU1jcb \Ug`ghcddYX`UbX`l\Y`HfUW1cf`]g`]b`dU1f_`k]l\`h\Y`dU1f_]b[`VfU_Y`Yb[U[YX"AU_Y`gifY l\Y`ackYf`]g`fYgH]b[`cb`l\Y`[fcibX`cf`gYW1fY`miV`cW_YX`id`UbX`U``\mXfUi`]W dfYggifY`\Ug`VYYb`fY`]YjYX"

Kgo	Eqpf kkkqp"cv"Uctv" qh"Uj khv	Ur gelthe 'Eqo o gpu'' kh'pqv'Q0M0
Vjg'hncujkpi 'nkijvu'hwpevkqp''r tqrgtn{		
Vj g'UO X''Uki p'ku'engcp''cpf ''xkıkdırg		
Vjg"\ktgu"ctg"kp"i qqf "eqpf kkqp"y kj"r tqrgt"r tguuxtg		
Vjg'yjggn'nwi ''dqnu''ctg''vkijv		
Vjg'tcevqt"dtcngu"ctg"kp"i qqf "eqpf kkqp		
Vj g'uvggtkpi 'hkpnci g'ku'kp'i qqf 'eqpf kkkqp		
Vj gtg"ctg"pq"xkukdrg"qkd"rgcmu		
Vjg'j {ftcwrke"eqpytqnu'hypeykqp'rtqrgtn{		
Vj g'TQRU'qt'TQDU'Ecd'ku'kp'i qqf 'eqpf kkqp		
Vjg'ugcvdgnv'ku'kp''r meg''cpf 'kp''i qqf ''eqpf kvkqp		
Vj g"5/r qkpv"j kej "ku"kp"i qqf "eqpf kkqp		
Vjg"ftcydct"rkpu"ctg"ugewtgn{"kp"rnceg		
Vj g'RVQ'o cuvet''uj kenf ''ku''kp''r neeg		
Vj g"gpi kpg"qkihgxgilku"hwn		
Vjg'dtcng'hnvkf 'hgxgn'ku'hwm		
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DO NOT OPERATE an UNSAFE TRACTOR or MOWER

 $\underline{V@}*A@\underline{\bullet}^{A}@\underline{I}_{A}@\underline{I}_{A}@A\underline{I}_{A}$

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Boom PRE-OPERATION Inspection



O qy gt'KF ‰aaaaaaaaaaaaaaaa

AWARNING

6 YZcfY`WcbXiWijb[`'N,Y`]bgdYWijcbžaU_Y`gifY`N,Y`HfUWicf`Yb[]bY`]g`cZZžU``fcHUhjcb`\Ug ghcddYX'UbX'h Y'hfUWrcf']g']b'dUr_'k]h 'h Y'dUf_]b['VfU_Y'Yb[U[YX''AU_Y'gifY'h Y ack Yf`]g`fYgh]b[`cb`h\Y`[fcibX`cf`gYW`fY`mV`cW_YX`id`UbX`U``\mXfUi`]WdfYggifY`\Ug VYYb'fY]Yj YX"

Table 1:

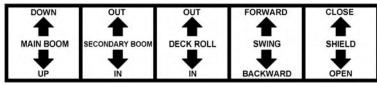
Kigo	Eqpfkkkqp"cv"Uctv" qh"Ujkhv	Ur gelthe 'Eqo o gpu'' kh'pqv'Q0M0
Vj g'Qr gtcvqtøu'O cpwcn'ku'kp''y g''tcevqt		
Cmluchgv{ "f gecnu"ctg"kp"r meg"cpf "rgi kdrg		
Vjg"oqwpwlpi "htcog"dqnu"ctg"kp"rnceg"cpf "wijv		
Vjg"dqqo "eqppgevkqp"dqnu"("rkpu"ctg"vkijv		
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Vjg"j{ftcwrke"e{rkpfgtu"rkpu"ctg"\kijv		
Vjg'j {ftcwrke'r wor 'jqug''eqppgevkqpu''ctg''vkijv		
Vjg'j {ftcwike'xcnxg''eqpvtqnu'hwpevkqp''rtqrgtn{		
Vj gtg"ctg"pq"ngcmkpi "qt"f co ci gf "j qugu		
Vjg'j {ftcwrke''qkrihgxgriku'hwm		
Vj gtg"ku"pq"gxkf gpeg"qh"j {f tcwrke"rgcmu		
Vj g"drcf gu"ctg"pqv"ej krrgf."etcengf "qt"dgpv		
Vjg"drcfg"dqnu"ctg"\kijv		
Vjg"fghgevqtu"ctg"kp"rnceg"cpf "kp"i qqf "eqpf kkqp		
Vj g"dqqo "uj kgnfu"ctg"kp"r nceg"cpf "kp"i qqf "eqpf kkqp		
Vjg"unkf "ujqgu"ctg"kp"iqqf "eqpf kkqp"cpf "vkijv		
Vj gtg"ctg"pq"etcemi'qt"j qrgu"kp"dqqo "f gem		
Vjg'j {ftcwrke'o qvqt'o qwpvkpi "dqnu'ctg'vki jv		
Vjg'dqqo 'jgcf''ur kpfng''jqwukpi 'ku''kijv'cpf''nwdtkecvgf		

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DO NOT OPERATE an UNSAFE TRACTOR or MOWER

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Ecdng'Eqpvtqmgf 'O qy gtu CEAS[]d[|Á^ç^¦Á\$^&adÁ]ā[āadÁ][Á@A]}^Á@{,}Å\$*\[,Á@{`|åÁ\$^Á,^adÁ@AS[}d[|Áçadç^Á3[Á^{ ā]åÁs@A[]^¦ad['Á]~ c@?Á^ç^¦Á;}&cāį}∙È



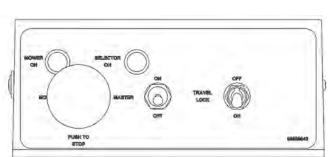


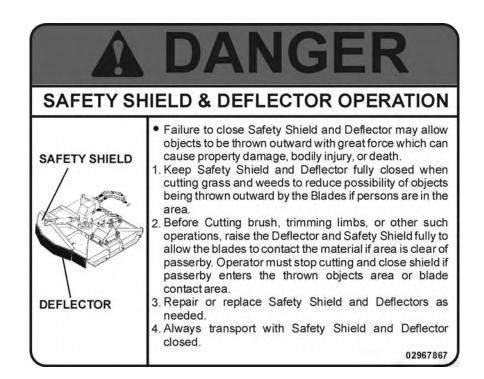
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<u>* "(`Gk]hW(Vcl</u>

V@ ÁÙæ^ć ÁÙ@ *\åÁ^ç^\:Á[]^} • Áæj å Á&[[•^• Á@ Á @ *\å [[&æe*åÁ]; Á@ Á+[] ơh, Á@ Æ œ^\:Á@ æ Ě¥ @ } Á, [çā] * æA[: \Á} ^æ; Á@ Á*[] * å ÊÁæţ, æ • Á@æç^Ác@ Á @ *\åÅaj Áœ &[[•^åÁ][•ãæ]; ĚÁY @ } Á{ [¸ā]* Áāj Áœ Ás: `•@Á[:\Áa] d^^• Áæi[ç^Á*;[`} å Á^ç^|Ás@ Á @ *\åA; `•@Á[:\Áa] d^^• Áæi[ç^Á*;[`} å Á^ç^|Ás@ Á @ *\åA; æ Áa^A[:]^} ^å -[:Á^æa?:\Á&`@ā]* ĚÁÜ ^æi Áæj å Á[:||[`, Ác@ Á, æ}] ð]*•Á[;] c@ Áå^&æ¢Á* @ `, } Áa^|[`, ĚÖ[Á:[oÁ` } Ác@ Á&` œ^:\Á@`æi ð qí Á; æ*\iãæþÁæ**\!Ác@æi Â: +&iãæq ^c*\È





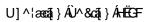
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ŠÒXÒÜÁÂGÁÙÒÔUÞ֌ܟÁÓUUT

ŠÒX ÒÜ ÂÂFÁT Œ DAÓU U T

ŠÒXÒÜÂHHÖÒÔSÁÜUŠŠ



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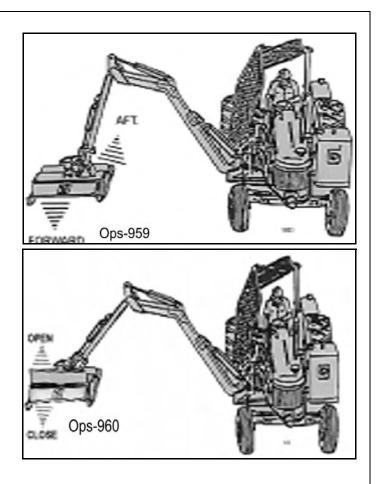
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ŠÒXÒÜÂÁÍ ÁÓUUT ÁÙP QÒŠÖ



<u>+'>cmgh]W`7cblfc``YX`AckYfg</u>

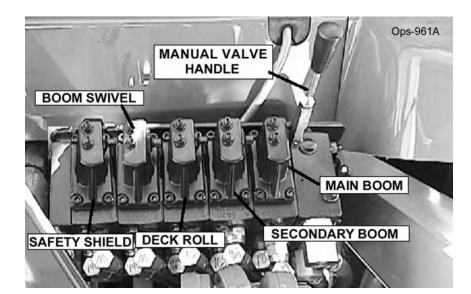
▲WARNING ÞUVÒKÁ8C`BCHÁ[]^¦æe^Á{[,^¦Á@æåÁ;@ápÁa[[{Á;[,^¦ÁārÁ3;Ác@Áa[[{Á^•dÉ4;¦Á3;Ác@Á•d[¦^å]][•ãd4;}ÂÄÜ^åÁ7ω[,^¦ÄÜ*}+Áðt@á5;å&3æe∿•Á;[,^¦ÁarÁbulÞ+È

V@/Aà[[{ {A~} & Cat} } • Áæ ^ Á&[} d[||^ å Áà ^ Áæ) Á^|^ & d[} a& Atj ^ • cað ÈÁ /@ ÁR[^ • cað ÁT æ• c^¦ ÁÙ, ãa& @Á^} ææ |^ • Ác@ Átj ^ • cað &[} d[|Át ¦ Á&[} d[||ā] * Ác@ Áa[[{ Át [cat] } Á~ } & Cat] • ÈŹ /@ a Á, ãa& @Áa Átj Ác@ Ád J ØØ + Áj [• ãatj } Á, @ } Á cæ caj * Ác@ d æ&dt ¦ Áæj å Á, @ } Áa[[{ /áa Á ct , ^ å Át ¦ Át æ) •][¦ caj * Ác@ Át æ& @aj ^ È

QÁc@Áţ^•ea3&Á&[}d[|ÁãrÁj[oÁ]]^\aæaj*Áj|[]^\|^Éč'}Áœ@Á(æ e^\¦Ár, ãa&@ţÁc@Á&JQO+Áj[•ãāţ}È Q•eaa|Ás@Áţ að ǎaþÁçaaç<Á@að å|^Áţ}q[Áçaaç<Áæð åÁt]]^\aæ^Ás@Á`}&aāt}>Aātāšāš að Åt[Atq, Ás[[{È OEe<\Ái][{ÁãrÁrq[, ^åAð Á^•dÉAdað•][¦oÁc@Á}ãAdţÁc@A(æð e)}að &^Áæ& ðjãčÁæð åÆ[}æ&oA`[`\ Vã ^¦Ås^aah\Át[¦Áæ•ĕacað &^È

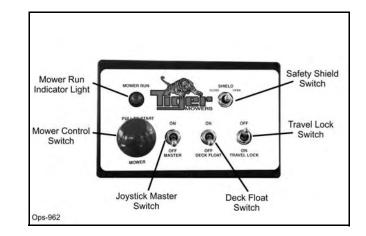
A CAUTION 8C'BCHÁœec^{] cÁt[Át] ^¦æe^Ác@Áçæqc^Átæ) čæţî Át[¦Át[,āj*Át] ^¦æeāt}}•Â

Þ[ơ\ KÁÚ • @ð) * Á{ æ) čæ þýcæ þç^Á @æ) å |^• Ák ö ơ há hó čơ há hó chó chá hó chá hó chá hó chó chá hó chá hó chá hó chá hó ch



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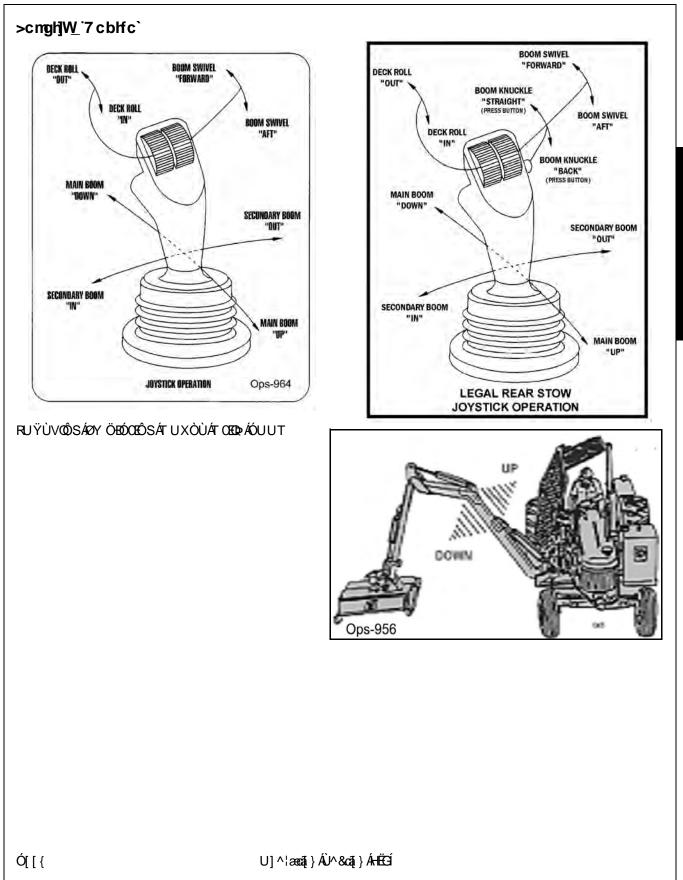
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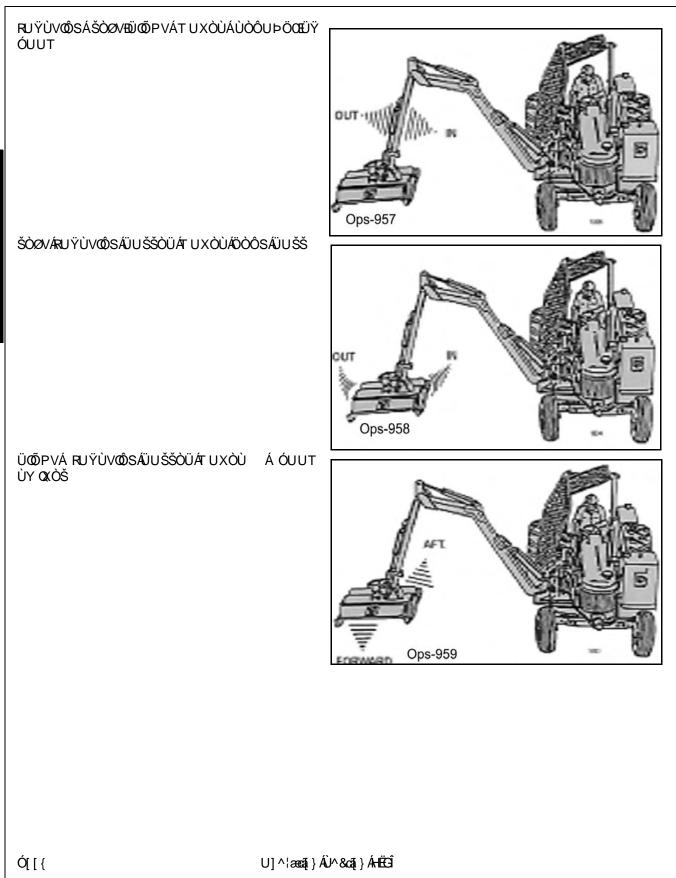
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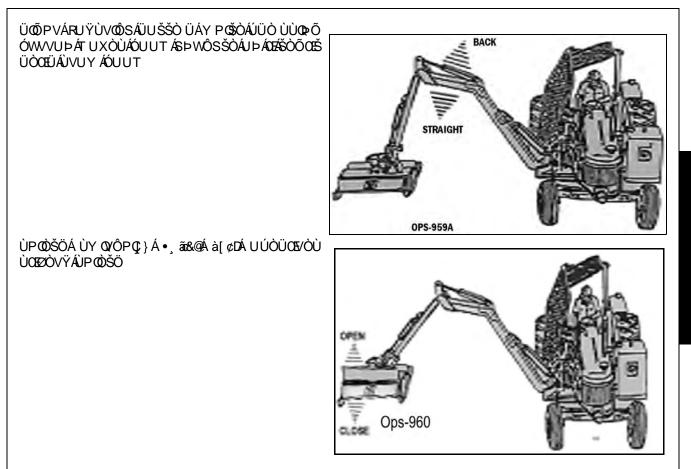
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<u>, '8 F=J=B; 'H<9 'HF57 HCF 5 B8 = A D@9 A 9 BH</u>

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Ü^æåÁæd/Áræ^ćÁşi•d*&aāt} •ĚÁÖ^&懕Át}Ás@ÁÓ[[{ { Á æ}}Á']čá Áráðaða áÁt č|a∃ |^Á@ææå ĚÚ[{ ^Áå^&æ‡ æ^Áæææ&@åÁ&[[•^Át[Á] ædÁ[Ás@ ÁÓ[[{ { Á @}!^Ác@;!^Áā*Áæð, [••ãa|^Á@ææå ĚÁÚ^æå Áæ}åÁ (æ}^Áeč;!^Á^[č}å^¦•æ}åÁ@ Áræ^ćÁ{ ^••æ*^•Áà^-{;!^Á`[čÁt] ^}æ*Á@Aðt]]/{ ^}dæ*Á@Aðt]]/{ } Ü^]]æ&^Á[•dá;!Ååæt]æ*^åÅå^&æ‡ Ěá^-^¦Át[Áæ^ćÁr^&dā;}Át[!Át[;!^Ás]-{;!{ æati}}È

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@, ÁāxÁ@ea)å|^•/&i^-{:\^Ásiæ)•][¦ca]*/Ą;}Árd^^or/&e}åe)åÁ@at@, æê•ÈATæ}^Á*`!^Ási@ Á/iæ&ad[iÁrc^^iá]* æ)åÁsilæ}^•Áse^^ÆjÆ[[åÁ&[}åãaā]}Áse)åA[]^!æe^/Ą:![]^!|^È

Ó^-{ ¦^Át;æ)•][¦æ]*Ác@Á/¦æ&q[¦Áæ)åÁQ]|^{ ^}dÉå^ơ';{ ā}^Ác@Á];[]^¦Át;æ)•][¦ó4;]^^å•Á{[^[`Áæ)åÁ@Á``ā]{ ^}dÉÁT æ}^Á`',^Á[`Áœàãå^Áà^Á@Á{[|[,]]*Á`|^•K

V • o Kace Kizezet i Kaceka ka [] _ A] ^ ^ å Kaj & ki ~ ze ^ Kace A] ^ ^ å A [[] | È KACE]] | ^ Kace A Ó i ze ^ A Á [[[copî d[Áå ^ cr i {]] A Á Ce A f []]]] # Á & @ ze ze cr i ze cze A Á A @ Á / i zez d i hazi a Á Q] | ^ { ^ } džÁOE Á [` Á] & ki ~ ze ^ coe A •] ^ ^ å A [- Á coe Á V i zez d i há ce A f]]] # Á å ze ce à & A Á] & ki ~ ze ^ E Á KOC ^ cr i {]] A Á Ce A { zez a i ` { d ze a •] [i cá] ^ å Á [cát A ce A ^ å Á GE Á] @ Á CE A [] @ Á [i Á tz a •] [i ca i há ce A `] { . A ce A { zez a i ` { d ze a •] [i cá] ^ å Á [cát A ce A ^ å Á GE Á] @ Á [i Á tz a •] [i ca i há ce A `] { . A ce A `] A cè

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<u>, '%GhUfhib['h\ Y`HfUWhcf</u>



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<u>. "&`6 fU_Y`UbX`8]ZZYf YbhjU`@cW`GYhtjb[_</u>

T æ\^Á` |^ Á@ Á; æ&q | Áa; æ\ ^• Áæ\^Áaj Á`[[å Á;] ^ | ææ] * &[} å ãæ] } ÈÁV; æ&q | Áa; æ\ ^• Á&æ) Áà^Á• ^ oĆq Á;] ^ | ææ å a^] ^} å^} q` Áæa|[, ā] * Á• ā] * |^ Á!^ æÁ, @^|Áa; æ] * æ&æ] } Á[| Á[[&\ ^å Á] * ^ o@ | Áq Á] | [çæ^ Á• ā] ` | æa} ^[`• |^ æÁ, @^|Áa; æ] * ÈÁQUÜÁT UÙVÁÖÜQKQÞ ÓÁQEÞÖ UÚÒÜCE/QÞ ÓÁÔUÞÖQYQJÞÙÊ/PÒÁÓÜCESÒÁJÒÖCEŠÙ ÙPUWŠÖÁÓÒÆSUÔSÒÖÁ/UÕÒVPÒÜÁ/UÁÚÜUX@Ö VPÒÁT UÙVÁÔØ2ÒÔVQKÒÁÓÜCESQÞŐÁQEÞVQJÞĚA

OĘ, æ̂•Áåã*^}* æ*^Ác@Átæ&t[¦Áåã⊷¦^}œãe‡Á[&\Á,@?} č'¦}āj*ÈÁY@}Á*}*æ*^åÁs@^Ááã⊷¦^}œãe‡Á[&\Á,@}]¦^ç^}ơÁ[¦Á|ā[ã0Ác@Ádæ&t[¦Á+[{Áč'¦}ā]*ÈÁÖ`¦ā]* }[¦{æ‡Á&`ccā]*Á&[}åãaā[}•ÊÅ|[&\ā]*Ác@Áåã⊷¦^}cãe‡]¦[çãå^•Á,[Áå^}^~ãoÁse]åÁ@[č]åÅ,[ơåà^Á•^åÈÁ

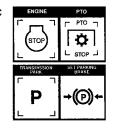




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æļ æê•Á*•^Ás@ Á/¦æ&q[¦q Á|æ @]*Á, æ}]]*Á]# (# & X/['//] ' a/g/ \& ' / () / (

ADANGER



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<u>. " `8 f]j]b[`h\Y`HfUWfcf`UbX`6 cca</u>

Ùœekof{,~~Ás¦āçāj*ÁæekkerÁ |[, Ár]^^å Ásej å Át¦æsti æ¢i ´Aşi &al^æet^Á[`¦Ár]^^å Á; @aţ/Át æsti æsti āj*Á&[{]|^c^Á&[}d[|Át, Ás@ dæ&d[¦ĚÁh⊃^ç^¦Át]^¦æet^Ác@ Ádæ&d[¦ÁseerÁs]^^å•Ás@eerÁ&æe}}[oÁs^Áræe^|^Á@æejå|^å Át¦Á;@at&@ás, āļ|Áj¦^ç^}oÁs@^Át]^¦æet[-¦[{Árd[]]āj*Á`at&\j^Åsi`}lāj*Ásej Át{^\!*^}& ÈÁkQÁs@ Á[[,^\Arc^\!āj*Át¦Át}}*āj^Á&^æe^•Át]^\!æetati #árd[]Ás@ Ádæ&d[¦ āt{^åãeeet\j^ÁserÁs@ Ádæ&d[¦Á;ā]|Ás^Ásä~at&`|oÁs[}d[|È

Ú^¦-{'}{ Áč } • Á ãu@ Áœ Ádæ&d : Áæ) å Á([, ^: Áæ Á [], •] ^^å • Ád Áå ^ c^; { 3 ^ Á @ , Á c@ Ádæ&d : Á, ãu@ Áæ) å æucæ&@ å Áā] |^{ ^} o Áœ à a ^ Áæ č : } ĔÖ^ c^; { 3 ^ Á c@ • æ^ Á] ^^å Ád Á; Æ æ æ æ Å ; [] ^: Á& [] d [| Á; -Ác@ Ádæ&d :] @ } Á { æ 3 * Á c : } • ĔÁ Y @ } Á c : } 3 * Á ãu@ Á c@ ā] |^{ ^} o Ác@ Á; c^: æ Å [: \ 3 * Á^} * c@ Æ å åa @ Á [] ^{ ^} ô Á@ Å; & æ ^ å EÓCH [], Áæå åãa j æ Æ Å æ æ Å Á c@ Á } ãuÁ @ } Á c : } 3 * Á [: | A , @ } Á] æ • 3 * Á | æ* ^ [à • d * & a] • ĚÁ

V[Áæç[ãåÁ[ç^¦č']) • ÉÅålãç^Ác@Ád:æ&d[¦Á]ão@Á&æ^Áæ) å ææÁ•æ^Á]^^ å• ÉÅ^]^&ãæ∯^Á]@}Å[]^!ææ∄*Á[ç^! ![`*@Á*![`}åÉÅ&[[••ā]*Áåãã&@•Á[¦Á•|[]^•ÉÅæ}å č']}ā]*Á &[|}^!•ÈÁ W•^Á ^¢d^{ ^A &æč qā}}Á @} []^!ææ∄*Á[}Á;c^]Á|[]^•ÈÁS^^]Á@Ad:æ&d[¦Á§jÁæÁ[] *^æÁj@}Af[ā]*Áå[]}@aµÈÁÖUÁ⊃UVÁ&[æ•oÁ[¦Áł^^Ë ,@^/Åå[]}@aµÈ

OPS-B- 0006



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H<9`CD9F5HCF`AIGH`7CAD@9H9@MIIB89FGH5B8`<CK`HC`CD9F5H9`H<9`HF57HCF`5B8 ACK9F`5B8`5@@7CBHFC@G`69:CF9`5HH9ADH=B; `HC`ACK "Á⁄@Ą́]^¦æɛ[¦Ą́`•cÁ^æå&æjåÅ{}å^¦•cæjå c@ÂJæ^cˆ&æjåÅJ]^¦æɛāj}ÅĴ^&cāj}•Ą́[^Áœãyá[a)*æfkæjåÅc@Áklæ&c[¦Ą́]^¦æɛ[¦qĂ(æj`æ†ÈÁ⁄@•^Á{æj迆Å{}å^'+cæjå c@ÂJæ^cˆ&æjåÅJ]^¦æɛāj*ÅJ^&cāj}•Ą́[]^¦æɛ[¦Ą́@[Á&æġ}[cÁ^æåÈÁÞ^ç^¦Áæh[]^Á[{^[}^Ác[A[]^¦æɛ^Ác@Á`}ã¢jãc@[`c à^Á^æåAæjåÅ^¢]|æāj^åÁt[Áæj^Âf]^¦æɛ[¦Ą́@[Á&æj}[cÁ^æåÈÁÞ^ç^¦Áæh[]^Á[{^[}^Ác[A[]^¦æɛ^Ác@Á`}ã¢jãc@[`c &[{]|^c^Áj]^¦æɛāj*Å5j•d`&cāj}•È

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CEe^¦Ác@ Áđ•ofá æ Á[-Á]^¦æaā] كَلْحَطْمُ اللَّهُ [الح أَجْ وَلَّ المُلْمُ أَلَّهُ مَا اللَّهُ مَ أَلَّهُ مَ]^¦āj å گُمُعُطْمُ أَلَمُ اللَّهُ اللَّهُ مَا اللَّهُ مِنْ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَ []^¦æaē] أَلُّهُ اللَّهُ مَا اللَّهُ مَا اللَّهُ مَا اللَّهُ مِنْ اللَّهُ مَا اللَّهُ مَا اللَّهُ مَا اللَّهُ مُ

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The cutter deck should be level with the ground

to reduce the work required by the cutter and tractor to minimize equipment wear and damage.

AWARNING

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Tractor PTO Integral Shield Shield Shield Chain guard

AWARN IN G

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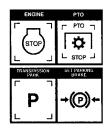
V[Á@ohá[]}Áxxxxx&@åÁ([]^\|Á@asáÉÁā•ohá|ā]*Áœ dæ&d[¦Át[Ázz4&[{]|/c^Á•d[]ĔÖ^&¦^æ^ÁY}*ā]^ÁÜÚT d[Ásá|/Ás@}Åsã^}*æ*^Áx`cc\!@asáĔV@Á([,^\|Á@æå ,ā|Á&[{^Ád[Ázz4&[{]|/c^Á•d[]Á,ãc@]Ázz4`ãzæà|^ aet[]`}oh[Ácā[^EÖ[A][oh?*æ*^Á[|Áåã^}*æ*^Ác@ &`cc\!@æsá•Ázz4beA@#@ÁÜÚTÁ}|/••Ác@\!^ÁãAe} ^{^*^}&Âzãæaa]È

Úæ\Ác@Atæ&q[¦Á[}ÁæÁ|^ç^|At`¦æ&^ÉA]|æ&^Ác@ dæ)•{ã••ã[}ÁājA]æ\Á[¦Á}^`dæ4Áæ)åÁæ]]|^Ác@]æ\āj*Áa¦æ\^ÉÉ*@cÁa[,}Ác@Á^}*āj^ÉA'^{ [ç^Ác@ \^ÊÉæ)åA;æãoA[¦Áæl/Á;[cã[}Áq[{ ^Aq[Aæ4Aq]]|^c^ •q[]Áa^-{¦^Ár¢ãaj*Ás@Atæ&q[¦È OPS-B-0011_D









OO2UUOA(^æçā) * As@ Astæska[¦A ^ædEad; ǽ • A ^ As@ Aj æk]ā * Astæbaka àtĐ ¦A ^ c c@ Ádæska[¦Ádæ) • { تَعَ قَلْهُ اللَّهُ الْمَعَ اللَّهُ الْمَعَ الْمَعَ الْمُعَامُ الْمَعَ الْمُعَامُ الْمَعَ الْمُعَامُ الْمَعَ الْمُعَامُ اللَّهُ الْمُعَامُ اللَّهُ الْمُعَامُ اللَّهُ الْمُعَامُ الْمُعَامُ اللَّهُ الْمُعَامُ اللَّهُ الْمُعَامُ الْمُعَامُ اللَّهُ الْمُعَامُ اللَّهُ الْمُعَامُ الْمُعَامُ اللَّهُ مُعَامًا اللَّهُ الْمُعَامُ اللَّهُ مُعَامُ الْمُعَامُ اللَّهُ الْمُعَامُ اللَّهُ الْمُعَامُ اللَّهُ الْمُعَامُ اللَّهُ الْمُعَامُ اللَّعَامُ اللَّهُ الْمُعَامُ اللَّهُ اللَّهُ اللَّعَامُ الْمُعَامُ اللَّهُ اللَّعَامُ الْمُعَامُ اللَّهُ الْمُعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ الْمُعَامُ الْمُعَامُ اللَّعَامُ اللَّعَامُ الْمُعَامُ اللَّعَامُ الْمُعَامُ اللَّعَامُ الْمُعَامُ الْمُعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ الْمُعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ الْمُعَامُ الْمُعَامُ الْمُعَامُ الْحَامُ الْمُعَامُ الْمُعَامُ الْمُعَامُ الْمُعَامُ الْمُعَامُ الْحَقُلُولَ الْمُعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ عَلَى اللَّعَامُ عَلَى الْمُعَامُ الْمُعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ الْحَالَ اللَّعَامُ اللَّعَامُ اللَّعَامُ اللَّعَامُ اللَّ

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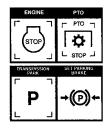
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À DANGER ▷^ç^¦Aæ|[, A&@]å!^}Aţ|A;|æÂţ|3,4;¦Aæ|[`}åA'!æ&q['}åA/!æ&q['A;!AQ;]|^{ ^}dZÖ@jå!^}A&æa)A;|3;A;¦Aæ|A;~~ c@ ÁÒ``3;{ ^}c&a)åAs^Á3;b`!^åAţ|`A 3;|^åEÔ@jå!^}Á&æa)Á&æ`•^Áœ ÁQ;]|^{ ^}c^s,dξ[Á:@a-c4;!Áæ;| &'`•@3;*Ác@{•^|ç^•A;!Á;c@:!•EÁ\$;;ö≋i□

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- ‴ Üæãa^ÁTæãa,Áa.[[{Áæa]]¦[¢ã[æe^\|^Áq[Á΀≫È
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V[Á^{ [ç^Áx@Áa[[{ Áː[{ Áx@ÁÓ[[{ ÁÜ^•dÉAā•dáː¦}Ą[,~Áa)^Á\|^&d[} ā&átaç:^|Á[&、•ÁaeÁx@Á, ãa&@a[¢Áx@}Á^dæ&c c@Á}č&\|^Áx`|ājå^¦ÁyãÁaej]|ā&æa\|^DÁx@}Á`, jj*Áx@ÁÙ^&[}åæi^Áa[[{ ÁːdĚÁÜæãa^Áx@ÁTæajÁa[[{ Áaej]¦[¢ã[æe^|^Â j)&@•ÈÁÚ, ãç^|Áx@Áa[[{ Á[¦, æåáÁ[Áx@Áå^•ðǎ^á][•ãaā]}ÈÉÁXOPS-B-0013_D

U]^¦æaāį}ÂÛ^&cāį}ÅHËF

<u>%%%&`HfUbgdcfh]b[`cb`DiV`]WFcUXkUmg</u>

V@Á ÙT XÁ QÙ|[, ËT [çā] * Á X^@384/DÁ ^{ à|^{ á ā `}ãç^!•æ4Á•^{ à[|Á`•^åÁ4[Áæ4^ ¦oÁå¦ãç^!•Á[-Ác@]!^•^}&^Á[-Ár``ā] { ^}oÁdæ?^[ā] * Á] Å[æå, æ̂•ÁæaÁæ • [[, Á•]^^åĚÁÛT XÁā }•Áæ^ÁæÁdãæ) * '|æÁàiā @c [!æ] * ^Á, ãc@Á!^-4^&cãç^Á!^åÁdã Áf |Áà[c@Á\T XÁā } æ] åÁ}ā @Açã ãa ājãč ĚÁT æ}^Áe * '^ÁœÁUT XÁā }Æ &|^æ) Áæj åÁçã ãa|^Á! [{ Ác@Á!^æA[-Ác@Á] XÁā }ã &|^æ) Áæj åÁçã ãa|^Á! [{ Ác@Á!^æA[-Ác@Á] }ã &|^æ] Áæj åÁçã ãa|^Á! [{ Ác@Á!^æA[-Ac@Á] }ã &|^æ] Aæj Åáçã ãa|^Á! [{ Ác@Á!^æA[-Ac@Á] }ã &|^æ] &ÂEÁÁÜ^]]æ&^Ác@ÁUT XÁ^{ à]^{ (A aA-æå^å &] aæ æ* ^åÉA[:]A[-A[-] * ^!Á^-4/&cãç^È OPS-U-0020



Tæ\^A` \^A@weA@|Atæ& ([A|æ@])*A æ}]]*A|â @ E @æilâ @ ÉA æ} åA àlæ\ Abæillâ @ A æ'A ~ }&a] }]] \[]^\|^Áà^{ !^A] |[&^^å] * Á[] (Á] `àlã&A \[æi+È Y@A^A, ^\A[[å^|Atæ&([+ Á@æç^A] |^ c A[-A]â @ā] * (A] \[çãa^A, æ}]]*A â }æ+Aæ) åA[]^\æi] * Álâ @ā] * (A] \[çãa^A, æ}]]*A â }æ+Aæ) åA[]^\æi] * Álâ @ā] * Ê { [•A[[å^\A[[å^\+A] @ A] * A â] æ+Aæ) åA[]]^\åai] * Ålâ @ā] * Ê { [•A[[å^\+A] @ EAAÔ[] • `|AA] & C [Å^~]]^ åA, ã []^\æi] * A[â @ EAAÔ[] • `|AA] & C [Å^~]]^ åA, ã []^\æi] * A[â @ EAAÔ[] • `|AA] & A a a AA] & C [ÅA] & C [ÅA] & C AA] []^\&i] * Laa^AAC@ A] a @ AA a AA] & AA] & C AA] & C AA] & C AA] (A^A] * AA] & C AA





] Þ^ç^¦Aæ|[, A&@ajå¦^}A;\A;cooc'A;^!•[}•At{Aaãa^At}}AococA';ae&qt[\A;\AQ]|^{ ^}cE Øæ||āj*Á;~Á&æ)Á^•`|oÁajÁ^';āt`•Áajb`¦^Á;\áa^aac@e¥Açuö⊯eo



AWARNING

ADANGER

Tæ\^A&^\;æaaj, Ac@eeeAc@:A&uJ[[, AT[ça];*AX^@3&\/+4QUTXD+;ät}Aã;Aã;+cæ||^åAā; •`&@feeeA, æ`Á&ee Á{[Á&^Á&\^æ|^Âçã;äa|^Áæ);åA{^*äa|^ÈZÁY@};Á;æ;);[';a];*Á@ Ò``ā] { ^}cÁ`•^Ác@:ÁV\;æ&c{[;Á+]æ=@3];*Á,æ;}ā);*Á|ät@;eiAæ);åA{-[I][, Áæ||Á|[&æ d:æ=a&Á^*`]æaaj;}•È&uõet;+



Ü^å`&^A]^^åAä^-{¦^Ač`¦}₫,*A;¦Aæ]]^∄,*A;@A妿à^•Ė Ò}•`¦^Ác@æc⁄à[c@á妿à^Á]^忆e∕Áæ}^Á[&\^åA[*^c@}¦ ,@}A[]^¦ææ3;*A[}Áj`à|&3A[æå•È OPS-U-0023



<u>%%" '< Ui `]b['h Y'HfUWfcf'UbX'=a d`Ya Ybh</u>

Ó^{ | ¦^Átæ}•] [¦cāj * ÁœÁ[æå^åÁtæ&d[¦Áæ) å/ξ[] |^{ ^} cÊ { ^æ•` ¦^Át@ Á@ ã @Áæ) åÅ, ãå c@Éäã[^} •ã[}•Áæ) å/t ¦[•• , ^ã @Á[Á@ Á&[{] |^c^Á[æå^åÁ } ãīÈÁÒ} •` ¦^Át@æók@ |[æåÅ ā]Áa^Áş Á&[{] |ãæ) &^Å, ã@k@ Á(* æ¢Áã] ã•Á^cÁ{ ¦ c@ Áæ^æ Ás@ædÅ, ā]Áa^Átæç^|^å/át@ç]`* @ÉOPS-U-0024





ADANGER

Y @}Átæ)•][¦æ]*ÁO[[{ ÁT [, ^¦Á]}ÁæÁt' &\Á,¦Átæá^\Ébæ Á@ ât@A[¦Å, ábaœ { æ`Á^¢&^^åÁ|^*æ Á[ā] ão Á, @}Ác@ Áà[[{ Áãr Áāj Ác@ Ádæ)•][¦cÁ][•ãaā]}È Ô[}ææ3cÁ, ão@Áãa^Á, ¦Á[ç^¦@æbáA•d' &c'¦^•Á[¦Á][, ^¦Á|ā] ^•Á&æ) Á&æ* ^^]![]^\c'Ábaæ{ æ*^Á[¦Á+^\ā]`•Ábjb'|^Á[¦Ába^æc@ÈGÁ}^&*••æ*Â[[, ^¦Áb[[{ Ác] |^å`&^Á@ ât@Áæaj åĐD¦Á'^{{ [ç^Â{ [, ā]* Á@æbáA[Á'^å`&^Á, ãbc@Ác[Ác@Á^* æ |ã] ão Èkpiot # D





OE¦æ}*^Ác@^Á&@æa∄•Á•[Ác@ææÁ,@}}Áca†@c^}^åÊÁc@ &@eeal•Á æb^Á,č||a]*Áå[} adaÁadaa)åÁætæa∎∙c c@{ •^|ç^•ĔÁÔæ^~`||^ Áæt @^} Á@^Á^&`¦āj * Á&@æaj • Á; ¦ [c@ \ Áæ; c^ } ^ \ • Á ̆ • ā ̆ * Áà[[{ ^ \ • Á [\ Áàā ̆ å^ \ • Á [Áæ;] | ^ $\{aecai \in A c^{+} \bullet ai\} EA AAA AAA C^{-} \{A A A A A A A^{+} O$ æccæ&@a] * Áæ) å Á^{ [çā] * Ác@ Á ^ &` ¦ā] * Áå^ çã& • Áæ Ác@ ^¢d^{ ^Ác^} • {] { Á} ; [|ç^åÁ @} Á|^|^æ^åA@e Ác@][c^}cãæ‡Á⊈Á⊈,4ã8oÁ•,^¦ã[ĭ•Á54,b'¦^È

Y@ahÁ@eeč|ā]*Ác@oÁdæa&of¦Áæ)åÁã[]|^{ ^}oÉÁ{ æ}^ [&&æ•ā]}æ4Á•d[]•Ád[Á&@&&\Ác@æaÁc@•Áclæ&d[¦Áæ)å a] |^{ ^} oÁ@eeç^Á} [oÁ' [ç^åÁ[¦Á• @ãec^åÁæ) åÁc@æeÁc@ • ^ &` ¦ā! * Á&@æā! • Á@æç ^ Á; æā! œaā! ^ å Ác^} • ā! } ÈÁQ Áå` ¦ā! * dæ)•][¦Ónæk@ædåÁa¦æàāj*ÉAr@æd]Áč¦}āj*ÉA[¦Ár,^¦çāj* $aascai_{A} aasAi_{A} aaa$ d /á €] ^ & A @ A ^ & ' ac A ~ A @ A at at CHOPS-U- 0026



QÁskaāp^\/ÁsiĄ[QĄ^^\~&do^^\Éb@^Asi[[{ ﴿ جَالِمُهَا لَهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللَّهُ اللهُ ع]^¦•[}^|Áse^^Á,[cÁsj,Áseá,[•ãēā]}Ás[Ása^Á@ãdá,¦Ásu`•@°åÁsa^Áseá,ā,*a;*Ás[[{ÈĂ

Ü^dæ&oÁ,ãç^|Á&^|ãjå^¦ÁæjåÁ^&&`¦^ÁξIÁ;æãjÁ¦æqi^ĚÁJãç[oÁs][[{Áf;|,ælåÁξIÁs@/Á&^}o^¦Á;ÁAjæoÁs^åÈŠ§[,^¦Ás^&\Á;}d[c@ Átæih^lÁs^åÊæihåÁ @ A ~Á@ Átæ&d lÉV@ Átæ&d lÁeiha&A (^^lÁe) å Ác@ Á [_ ^lÁ@ æihA @`]å Á [_ Ås^Á&@æihA åÅ[_ } Á ^&` !^^ d[Ás@≥Áslæaā/^¦Ása^åÈ

QÁ+a)^Á,a±oÁ,4x@a;Á]^\;æaā,*Á;^&aā}}ÉA;{Áa;^A;a@;Á;x@;Á;Aa;@;Á;Aa;@;A;A;a4;a;A;[A4;[A4;]]/^c^\^ A CAUTION *}å^\+•d[[åÊÁ&[}cæ&cÁ^[*\ÁVãt^\Áå^æ4^\Á[\Ác@Aæåå\^••A[}Ac@A&[ç^\A[Ac@āA[að *æ4A+ æ••ãæ;&^Â

Ó[[{

U]^¦æeaji}ÂÛ^&caji}Á+HËÍ



U]^¦æeāį}ÂÛ^&cāį}ÁHËÎ

MAINTENANCE SECTION

Tæn∄c^}æ)&^ÁÛ^&ca[}ÁÜF

General Instructions

Vāt^¦ÁT[,^¦•Áæd^Áå^•āt}^åÁ[¦Á@at@Aj^¦-[¦{ æ)}&^ÁæjåÁ`**^åÁå`¦æaàājāĉÊŔ^óAjão@Atāt]]ãætåÁ[æabjc?}æ)&^ÈÁV@]`¦][•^Á[Ác@atÁ*^&cāt]}Á[Ác@A[æ)`æ‡ÁãrÁt[Á@]]Ác@A[]^¦æat[¦ÁbjÁc@Á/^*`|æeÅ*^¦çã&bj*Á[Ác@Á([,^\ÈÉÜ^*`|æ { æabjc?}æ)&^ÁæaÁc@Ábjc^¦çæ‡rÁt^}çāt]}^åÁjājÁ^•`|cÁbjÁc@A[æaçāt]`{Á~-ã&A}&^}&^ÁæjåÁ[]*Ájã^Atar[,^\È

Y@}Á[`Áj`¦&@oe^ÁæÁVãt^¦ÁT[`^\Á[`Áed+[Áe&K``ãl^Áea)[c@¦Áçæt`æa\|^Áee+^dÊ4Vãt^\qAjætoAj¦*æ)āæaāj}ÈÉU`¦ ¦æjãa Áea)åÁ^~a&A}c^A*A\;ç&A^ÁœeA*`æ}æ}c^åÁc@Á&`+q[{^\Á*ææā*æ&cāj}Á[¦Áįæ)^Á^æ+EÁVãt^¦AjætoÁ^^]Á]Ájãc@ c@Áa^{@}á*A{[¦Á~~a&a}&A}&ÊÉ*æ^cÁea)åÁ*}å`¦æ)&^Á¢]^&c^åAj~Ác@Á/ã^¦ÁT[`^\È

Maintenance Precautions

- ´´Ó^Á`¦^Á*}åĄi,-Át¦^æ•^Át`}Áeg)åÁ^¦\•Áec^Áeq/æ)Áa^-{¦^Á•āj*ÈKÖ^à¦ãrÁajb%&c^åÅajq[Áa^ædāj*•ÊA%&ÈA,ã©At¦^æ•^Á ,ã|Á&æě•^Áā{{ ^åãæc^Áåaॡiæ*^É
- ÖUÁPUVÁ ^ÁæÁ,[, ^¦Á ¦^æ^Á` } Áţ Áĭ à ¦ & æc*Áà^æiā, * ĚV@ ^Á^` ă ^Áç^¦^Á { æ|Áæ) å Á¢ ¢æ&óÆq [` } Át Á [` à | & æeñ] } ÈÜ/^^!Áţ Á@ Áå^œaā/å Áţ æāj c^} æ) & ^Á^&œaţ } Áţ ¦ Á] ^ & ãã&áĭ à | & æaā] > Áş • d` & æiţ } • ÈÖUÁPUVÁ; ç^!Ë * |^æ^Áà^æiā, * • È
- ˝ÁŠ^¢æ)Áġå[¸•Á@[č|åÁa^Áæ:@°åÁão@Á;āåÁ[æ]Á;¦Áa^๙*^}óÁe)åÁĭ\^¸æ{Áæ^\ÉX•ậ*ÁæÁ[∞Á&|^æ)Á ^Á][}*^Á;¦Á[∞Á&[c@ÉZÖUÁ⊃UVÁ•^Áæà¦æ=ãç^Á;¦Áæ{\æ4]^Á&|^æ}^k\ák]^æ4]^Á&|æ4]^A
- ˝ Ó^Áadp^\lcók[Á, ænā]c^}æ)&^Á5]åã8æa@[l•Á`&@Áane Ác@Á5]Ёæa)\Áājc^\Á,\^••`\^Á*æ`*^É4@å\æ`|ã8Á^•^\ç[ālÁ*ã*@Á *æ`*^É4\o&ÈÁ/æ\^Á;@Á^``ā^åÁæ&aaī}}Á{[K8[\\^&oÁan}^Á,\[à|^{{•Áā[{ ^åãæer\|^È
- <u>Ü^|^æ•^Á; -Á}^!*^Á+[{ Á; |^••` ¦ã ^åÁ^•c^{ Á; æ Á&æ •^Áşi æåç^!c'} dæst æsti } Á; -Á& |ā å^!•Éặ ¦Á` åå^} Á <u>|^|^æ•^Á; Á& {] !^••^åÁ] !ā *•Ě</u>Ó^-{ !^Á\$iã &[} ^0cā * Ási ^ÁQ •^•EÅ^|ã ç^Á; |^••` |^Á\$i^A @ ccā * Ád æst[!Á ~ÉĂ •^ccā * Á& cc^!Á; } Á`![` } å Ási å Áset cæst * Áãdýcæç^Á@ea à|^•È
 </u>

Break in Period

Q, Áseá áñaj} Á k[Á{||[], 3] * Ás@ Ásl^æ Ë3) Á3) • d`&caj} + Á{¦Á[`¦Á]æ ka3&č |æ Áslæ&ca]¦É3s@ Á3) Ëæ3) \Á@ 妿 |a3A4]č ãa Áajc^¦Á;@[`|å à^Á'^]|æ&^å Áeæc'¦Ác@ Áa] • cÁi €Á@[`¦• Á];~Ái^¦ça3A`ĚÁ/@`¦^æc^¦Ác@ Áajcc'¦Ár;@[`|å Ási^Ái^]|æ&^å Á^ç^¦^ Áí €€Á@[`¦• É4]; ^^æ]ĵÉ4, @a3&@Á;ç^¦Á&[{ ^• Áa] • È

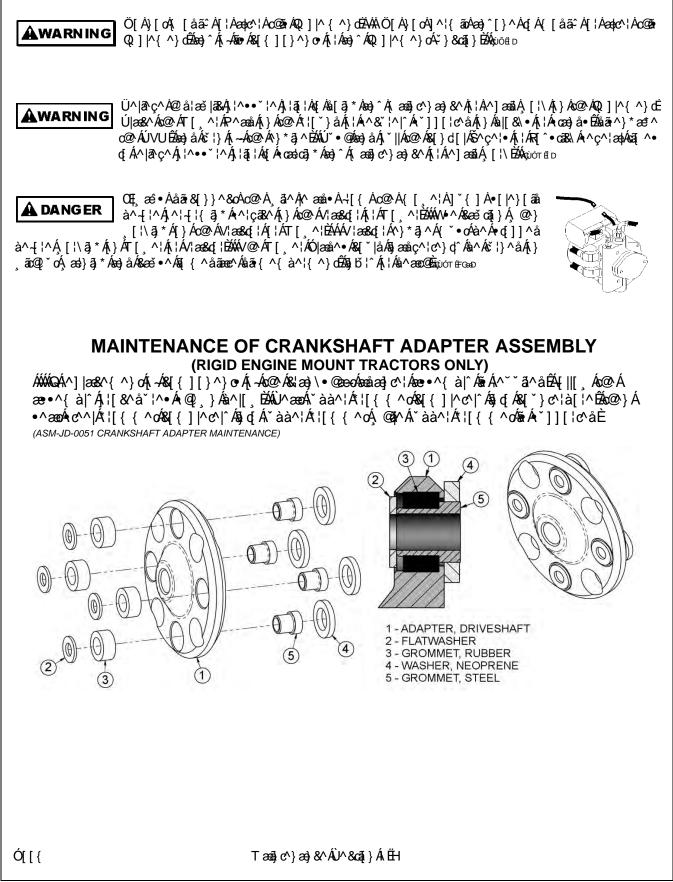
Ü^ËĘ[¦˘`^Á, @^|Á;*•Áæơ\¦Áā•ÓÁãç^Á@;`¦•Á[-Áː]^\æãā[}Áæ)åÁ]^¦ā[åã&æ)î^Á@;\^æơ\'ÈÈÙ^^Á[¦č`^Á+]^&ãã&æãa[}• |ã ơ åÁð, Ác@Ád:æ&ç[¦qÁ+^¦çã&^Á(æ)`æ)Á[¦Á`[`¦Á]æcã&`|æÁ([å^|ÈWheel lugs must always be re-torqued whenever a wheel is removed and reinstalled.



Í 4237'Cnco q'I tqwr 'Kpe0

Ó[[{

Tæn∄ c^}æ) &^ÂÛ^&ca‡i}Á ËG



MAINTENANCE

Regular Maintenance

V@^Á§jc^¦ç懕ÁæcÁ,@38@Á^*č|æ∂Á^¦ç38ā]*Ár@[č|åÁa^Áa[}^Áæd^Áaæe^åÁ[}Á@[č|•Á[~áh]^¦æaā[}ÈÁN+^Áa@Ada&d['+Á@[č| {^c^¦Áq[Áa^c^¦{ā]^Á;@}}Á^*č|æÁ^¦ç38ā]*Áa;Á^ččā^åÈ

Ü^-^\¦Áq[Áx@/AÖ^c æai/^åÁTæai/c*}æai/c*}æai/&^Á•^&cai/}Á+[¦Á~čo@'¦Áaj•d*&cai/}•Á[}Á*¦^æenj*ÈAÔ[]^Áæai/åÁ*•^Áx@/ÁÖæai/ Tæai/c*}æai/&^Á@^cA[&ææc*åÁæeAx@/Á*}åA[-Áx@ærÁ^&cai/}È

Daily or Every 8 Hours					
QYÒT Á	ÙÒÜXÔÒ	ÔUT T ÒÞ VÙ			
Ö¦ãç^ÁÙ@eee9Ÿ[∖^ÊÁWËR[ã]c BÁŨc`àÁÙ@eec	Õ¦^æ^	Õ¦^æ•^Áæ•/5aj•d`&c^å/5aj å^cæaậ∕åÁ{,æanjc^}æ)&∕Á<^&caậj}			
Ú`{] ÁÖ¦ãç^ÂÙ@æơÂÔ[`] ^¦	Ô@^&\Áse}åÁŠ`à^	Q,●`¦^Áå¦ãç^● @æơÁ\}åÁj æî			
Ô¦æ}∖∙@æo#00āæ}c∿¦Á	Ô@&\Á`àà^¦Á¦[{{ ^o	Ü^] æ&∿Á*¦[{{ ^orÁãÁ åæ{æ*^åÁ¦¦Á;ã∙āj*			
Úãç[ơÁÚ[ậ œ	Šĭà¦a&æe^	Q).b%&cÁt¦^æ•^Á};cāļÁāc æ]]^æd●ÁæerÁt}å			
P^妿ĭ∣ ã&√kØãcāj *∙ Á	Ô@&\Á{¦Á^&•	Va1@e^}Á,@e}Á,^^å^åÈÁKÖ[Á⇔[cÁ•^Á@ee)å• q[Á&@e&∖Á[¦Á(^æ)•ÉA(^^Á(æen)cĚ),¦^ⅇ`ca[}}•			
S}ãç^∙Á Á	Ô@&\Á	Q•]^&cÁ{¦Á(ã•ã)*Á¦Áåaa(a≛^åÁ}ãç^•Ê &@aa)*^Á&aeÁ,^^å^åÈ			
Ù] ājå ^Á([čāj*Áà[o∙ ●] ājå ^Á{(Áå∧&\D	Ô@&	V[¦˘˘^Át[ÁrFÍÁdÈĂà•ÈĂĭà¦ã&æe∿å V[¦˘˘^Át[ÁrÍÏÁdÈAà•È&s¦^			
S}ã^Á([ĭ}œ]*Áa[o• Ç}ã^Á(fÁsã\Á,¦Áa)æå^ÁaæbD	Ô@&\	Ú¦^Ë;`à¦a&æee^Áo@^æå∙Á,ão@kæ)oãë=^ã^ q[¦˘`^Áq[Âi€€ÁdĚ∦à•È			
Öãr∖ÐÓ æå^ÁÓæáÁ([`}œ]*Áa[o Çãã∖Đa æå^ÁaæáÁ[Ái]ājå ^D	Ô@&	V[¦˘˘^Át[ÁFÌ€ÁdÈĂà•ÈĂĭà¦ã&æe∿å V[¦˘˘^Át[ÁG€IÁdÈAà•È&¦^			
Ó^ œ	Ô@&&1005abĭ•c	Ô@^&\ÁਙáÁa¦[\^}ÊÁaã*@e^}Áæe-Á^˘ĭāā^å			
Tæn∄,Á⊠tæ{^Áæ);åÁ Ö^&∖	Ô@&\Á	Ü^q[¦˘`^Á\$[orÁt[Át[¦˘`^ •]^&ãã&æa‡[}•Á\$jÁc@arÁt^&ca‡]}			
P^妿ĭ ã&ÁØ ĭããÁŠ∕¢^	Ô@&	ŒååÁ\$ãÁ^˘ĭāľ^åAj́^¦Á¦ĭãåÁ/^&[{{ ^}åæãąi}∳●			
Ü^æłÁQ æ‡lÁÖ¦ãç^ÇãÁæ‡] 83ææè ^D Ó^æłÁQ æ}*^Áæ}åÁÙ@æơ4Ô[č] ^¦	Š`à¦a&æ∾	Õ¦^æ•^Áæ•Á§)•dč&c°åÁ§) å^æaa∦^åÁ{,æa3j¢^}æ)}&^Á<^&ca[i}}			
Ôčoc^¦ÁÙ@eeoÁæ)åÁ	Š`à¦a&aæ^	Õ¦^æ•^Áæ•Áaj•d`&c∿å/Aaj			
Ó[[{	Tænäj¢^}æa)&^ÁÛ^&ca≬}	ÁË			

MAINTENANCE

Õ¦[` } åÁ̈́̈́IJ[^¦			å^œaa‡^å/(; æaaj c^}æ)&^/é/^&caa[}		
	WEEKLY	OR EVEF	RY 40 HOURS		
QÒT /	ÓÜXÔÒ		₩₩₩₩ÛUTTÒÞVÙ		
Ü[cæ\$^ ÂÛ] ð] å ^	Š`à¦ ææ ^		Òç^¦^Á.€Á@įč¦∙Áį¦Á, ^^\ ^		
	WEEKLY	OR EVER	RY 50 HOURS		
QVÒT	ÙÒÜXÔÒ		ÔUT T ÒÞVÙ		
Q(Á/æ)∖ÁP^åbĚø()ĭãå Øä¢o°¦ 10 micron filterD	Ô@#)*^		Ô@ea)*^Áæec^¦Áal∙oAí€Á @[覕Á;} îÊ£ac@}Aíç^¦î Í€€Á@[覕Á;¦Á^æ î		
QËŠãj∧ÁPãt@ÁÚ¦∧∙∙`¦∧ Øā¢č¦ Q10 micron filterD	Ô@) *^		Ô@ea)*^Áæeo^¦Áã•oÃi€ @[覕Á;} îÉ£s@}}Á°ç^¦^Á Í€€Á@[覕Á;¦Á^æ ĵ		
	MONTHLY	OR EVER	RY 150 HOURS		
ITEM	SERVICE		COMMENTS		
	Ô@&		ŒååÁæ∙Á,^^å^å		
P^åÈĂ/æ}∖ÁÓ¦^æa@e¦	Ô ^æ}ĐÔ@&\ĐŬ^] æ&^		Ô ^æ}Ą(¦Á^] æ&^ ^ ^{ ^}œÁ^˘˘ā^å		
Ü^æ¦Á/ã^Á/`]^ IÌ€ÈÐÜHÌ FÌÈËH FÌÈËHÌ	tær Álíku íkke Millingu Millingi Millingi Millingi				
	YEARLY		Y 500 HOURS		
ITEM	SERVICE		COMMENTS		
Ù]ājå ^ÁÕ¦^æ•^ P^åĔÁvæ)∖ÁØ ĭãå Q\Á⁄æ)∖ÁP^åĔØ ĭãåÁØāje∿¦ QIO micron filterD	Ô@;)*^ Ô@;*^ Ô@;*^				
QËĞā,^ÁRÚÁØäjc∿¦ Ç10 micron filterD	Ô@;)*^	<i>,,,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ô@ea)*^Á,@}}Á§jå&3&æe&^å à^Á^∙da&ca[;}Á§jå&&æe[¦È		
₽^åĔ¥æ}∖ÁÓ¦^æc@\¦	Ô@;)*^				
Ó[[{	T æðj	c^}æ)&^ÁÙ^&d	Į}ÁÉ		

TROUBLESHOOTING

ÙŸT ÚVUT Ù	ÓÚVĐÔ	ÜÒT ÒÖŸ
Vibration	FÈŠ[[•^Áa]]o	FÈÁÁÔ@^&\Áse Ás[o=Áse}åÁsã@c^}Á{ ÁÁÁÁA^&[{ {^}å^åÁ{['˘˘^Á]^&eÈ
	ŒŽÔčœ^¦Áæ∙•^{à ^	GænÉÓ@^&∖Á{¦Áåæ; æ**^åÁå æå^∙Éååãr&
	Á₩₩Ã}àæ†æ3;&∿å	₩₩₩, ¦Æ œ^ • @eedĂÜ^] æ&^ ÆÅ, ^^å^åÈ
		/₩₩₩A*}œa)* ^å/\$şi As@~A&č cc^¦Aæ••^{`à ^
Mower will not lift	FĔAP^åĔAØ ĭãåÁĞ[,	FĚ∰Ô@&&\Áæ)åÁ^~ąĨ Á@åÁ†ĭãå
	GÈÉŠ^aà∙ÁşiÁậ,^ÜUW	GĚÁÁ/ã @c^} Á, ¦Á^] æ&^Áãuã, *●Áæ) åÁ@, ●^●
	HĎÁØæĕ c°Á^ ã∿-Áçæqç^	HĚÁ KÔ@∿&∖Á,¦^••č¦^Á§,Áã,^ÈŠã,^Á
		٨٨٨٨٨ ¦ ^ • • ` أَمْلَهُمْ اللهُ عَلَى اللهُ عَلَى الْمُرْعَانِ مَعْلَى الْمُعَانِ الْمُعَانِ الْمُ
	Í ÞÁØæĕ cî Á&î āj å^¦	Í ÈÁÁÁQ,•]^&dÉÁ^]æãiÁ[¦Á^] æ&AÁ&^ ā)å^¦
Mower will not start	FĚÉÓ [,}Á~ ∙ ^	FEXXXÔ@&&\Á`•^&a^ç ^^}Á[]^^¦Á;ã&@Á
or run	ŒĬÓæ∦Áçæç∧∙Á&[•^å	Á₩₩₩₩ee)å Á5t}ãaā[}E5^] æ&A CEŽ₩₩T æ≿^Á*`¦^Áşæ¢ç^●Áset^Á[]^}
	HĚŠ[, Ą đÁ^ç^	HĚWIÓ @ & Á@ åĚkaa) \ Áad åÁa
	I EXSã A Ánae	I È∰ Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â
		ÁWWWA^Ĕċŧ@^} Á, ¦Á^] æ&^
	Í È ÄÖ ^ & c' [} & &	Íæ EÁÝ ã c@, čoko@: Áslæ&d ¦Á`}}āj*Ê&č ¦}Á
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		Á₩₩₩₩aeĕåãa ^Á& a&\Á;@Q`` åÁa^Á@≥ælåÁ5aÁo@>Á
		Á₩₩₩₩{[^}{[ãã/ĀŧÁ}}*ætā]*Áx@A*[[^}[ãã
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		Á₩₩₩₩aa)åÅ,ātāj*Á{[¦Ása)Á{i]^}Á&at&`ãdde@A Á₩₩₩4{àb%&A#arÁseec!as&c∿åÅà`o"}[Á&aja&\+#arÁ
		//////////////////////////////////////
		íàÈÁÁÜ^{[c^Ás@A[č¦Ás][orÁo@ åā]*Ás@A
		ÁWWWA { æ\$\Á\$\ [&\ Á\$[Á\$@ Á\ æ\$j Á\$\ [&\ È\$Šãc
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		Á₩₩₩Ô ^æ), Áājc^¦Áæ), åÁ^Ëā, • œe È
		Í&ĐÁŇÜ^{ [ç^Á;Aet*^Á; cấ; }Á;äa^A; -Aet*^
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		∰∰∰Û ^æ}ÁjætoA[¦Á^] æ&^ÆáÁ&¦æ&@åÈ
	TROUBLESHOOT	ING (CONTINUED)
ÙŸT ÚVUT Ù	ÔŒNÙÒ	ÜÒT ÒÖŸ
Motor runs but will not cutÈ	FĔĆ^ œ	FÈ∰@(Q∙]^&cAsh^ orÁsh}åÁ,` ^^∙ÈÜ/^] æ&^ ∰∰∭aAo/orÁsh}åÁ^]æäÁserÁ,^^å^åÈ
	GĚĂ/^}●ą́}^¦	ŒŹ₩₩ŒEİĎ∙OÅ&^}•ā[}^¦Á,ઁÓÁ↓æe;æ•@`¦ #₩₩₩ᢤæ•@`¦AsaÁţ`•@Á,ão@Aţ]Á,~Á*ĭãâ^È
Mower turns slowly or not at allÈ	FĚŽÔ[}œæ{ājæa}orÁ /‱Á∧∙da8acāj*Á][[/‱{[ç^{ ^}ofasjÁ /‱çæqç^Asi[å≏ÈÁ	FÈ∰ÜÜ^{ [ç^Á;adi*^Á; cái}Áāâ^Á; Áadi*^ ﷺ áAi adi*^ ﷺ áAi adi*^ ﷺ [•^á;ā^Á;]ā áEi áAi][[] ﷺ áAi [{ ábi][& ÈÔ@&\ábi][& Áz][[] ﷺ [{ ábi][& ÈÔ@&\ábi][& Áz][[] ﷺ áAi & adi adi adi adi adi adi adi adi adi m∭∭ [Áx] } adi a ár adi adi adi adi adi adi adi adi adi adi
	GĚÁÙĭ&cā[}Ájā]^• Á₩́(A)à•dĭ&c°åÁ HĚÊ[,Á[ājÁ^ç^	GĚÁMÂÔ@&\Á[¦Á∄\•Á[¦Á;à•d`&cā[}Á§) AMMMÁ`&cā[}Á@[•^È HĚÁMÂÔ@&\Á@åÈÁcaa)\Á^ç^ Ása)åÁā[È
Pump will not work	FĚÓ¢&∿••ãç^Á,^æ÷ ᠱ₩҉(}Á§,ơ\}æ4,Áæ;œ	FĚ∰ÜÖãrær●^{à ^Áæ);åÁ^]æãiÈ
Motor will not work	FĚÃÔ¢&∿∙•ãç^Á,^æ÷ /₩₩Ą}/Á§jc^¦}æ4Åjæeor	FĚ∰ŰÖãrær●•^{à ^Áæ);åÁ^]æãiÈ

$$\begin{split} & \vdash UVO\dot{k} \hat{Q} \hat{A} [, \dot{A} ,$$

Tæājc^}æ)&^ÁÛ^&cāj}Á,Éï

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		P	7		_	K	1010	Standa		67A	1015	-	R	1	
Nominal	threads	1	1)	Grade	JV.	>	Grad	105	÷3		Grade 8	0	>	Grade S
Dia.	per		Tight	ening To			Tightening		Je 5	Tigh	tening Toro			Tightening To	
	inch	Luber			Dry plai			ted Dry pl			Dry Plated		Lubed		d Dry plain
(in.)		K=0.	15 1	K=0.17	K=0.2		_	17 K=0	_		K=0.17	K=0.20	K=0.1	5 K=0.17	K=0.20
1/4	20	49 in-	Ibs !	59 in-lbs	66 in-lt	s 76 in-1		Ibs 101 in			122 in-lbs	143 in-lbs	126 in-II	bs 143 in-lbs	s 168 in-lbs
5/16	18	101		122	135	157	178	209	2	221	251	295	259	294	346
3/8	16	15 ft-1	bs	16 ft-lbs 29	20 ft-lb 32	s 23 ft-1				ft-lbs	37 ft-lbs 59	44 ft-lbs 70		5 43 ft-lbs 70	s 51 ft-lbs 82
1/2	14	24	+	44	49	37	42	49		52 80	90	106	61 94	106	125
9/16	12	53		63	70	82	92	109	1	115	130	154	135	153	180
5/8	11	73	-	87	97	113				159	180	212	196	211	248
3/4	10	129	-	155	172	200	227			282	320 515	376 606	331 533	375	441 710
1	8	187		225	250	483	547	644	8	381	772	909	799	905	1065
1 1/8	7	266	-	319	354	596	675			366	1095	1288	1132	1283	1510
1 1/4	7	375	-	450 783	500 869	840				363	1545 2688	1817 3162	1597	1810	2130
						-	Fire	Thursd	Conton				1.1.1		
1/4	28	56 lin-	ibel I	68 lin-Ibs	75 in-1	s 87 in-1		bs 116 in			139 in-lbs	164 in-the	144 lin-1	bs 163 lin lhe	s 192 in-lbs
5/16	24	112		135	150	174	197	231	1 2	245	278	327	287	325	383
3/8	24	17 11-1	bs :	20 ft-lbs			bs 30 ft-				42 ft-lbs	49 ft-lbs			_
7/16	20	27	-	32 49	36	64	47	55		58 90	66 102	78	68	78	91
9/16	18	59		71	78	91	103			128	146	171	151	171	201
5/8	18	82		99	110	127	144			180	204	240	211	239	281
3/4	16	144 138	+	173	192	223				315 502	357 568	420	369	418	492
1	14	210		252	280	542	614			765	867	1020	896	1016	1195
1 1/8	12	298	-	357	397	668				083	1227	1444	1269	1439	1693
1 1/4	12	415		498 880	553 978	930				509 668	1710 3024	2012 3557	1768	2004	2358
					Class 4.6	e-rena	aon re	Class 8.8	nip for	Metr	ic Faste		Clas	s12.9	
				<		>	A CHINE		hip for	Metr			P	12.9	
				<	Class 4.6	>	(Class 8.8	hip for	Metr	Class 10.		P	7	
	N	lominal (Pitch	(Tigj	Class 4.6 4.6 Intening To	que	Tig	Class 8.8 8.8 Intening Toro) Iue	T	Class 10, 10,9	9) Indra	Tighteni	ng Torque	
	N		Pitch	Tigi Lubed	Class 4.6 4.6 Intening Top Dry Plated	que Dry plain	Tig) Lubed	Class 8.8 8.8 Intening Toro Dry Plated	ue Dry plain	T Lube	Class 10. 10.9 ightening To d Dry Plated	9) Inque Dry plain	Tightenin	ng Torque Dry plain	
	B	Dia. (mm)		Tigi Lubed K = 0.15 (ft-lbs)	tening To Dry Plated K = 0.17 (ft-lbs)	que Dry plain K = 0.20 (ft-lbs)	Tig Lubed K = 0.15 (ft-lbs)	Class 8.8 8.8 bitening Toro Dry Plated K = 0.17 (ft-lbs)	pue Dry plain K = 0.20 (ft-libs)	T Lube K = 0.1 (ft-lbs	Class 10. 10.9 ightening To d Dry Plated 5 K = 0.17) (ft-lbs)	9 Dry plain K = 0.20 (ft-lbs)	Tightenin Lubed K = 0.15 (ft-lbs)	ng Torque Dry plain K = 0.20 (ft-lbs)	
	B	Dia. (mm) 3	0.5	Tig) Lubed K = 0.15 (ft-lbs) 0.28	Class 4.6 4.6 Dry Plated K = 0.17 (ft-lbs) 0.32	que Dry plain K = 0.20 (ft-lbs) 0.38	Tig) Lubed K = 0.15 (ft-lbs) 0.73	Class 8.8 B.8 Drup Plated K = 0.17 (ft-lbs) 0.82	ue Dry plain K = 0.20 (ft-lbs) 0.97	T Lube K = 0.1 (ft-lbs 1.0	Class 10, 10,9 ightening To d Dry Plated 5 K = 0.17) (ft-lbs) 1.2	9 Dry plain K = 0.20 (ft-lbs) 1.4	Tightenin Lubed K = 0.15 (ft-lbs) 1.2	ng Torque Dry plain K = 0.20 (ft-lbs) 1.6	
	B	Dia. (mm) 3 3.5		Tigi Lubed K = 0.15 (ft-lbs)	tening To Dry Plated K = 0.17 (ft-lbs)	que Dry plain K = 0.20 (ft-lbs)	Tig Lubed K = 0.15 (ft-lbs)	Class 8.8 8.8 bitening Toro Dry Plated K = 0.17 (ft-lbs)	pue Dry plain K = 0.20 (ft-libs)	T Lube K = 0.1 (ft-lbs	Class 10. 10.9 ightening To d Dry Plated 5 K = 0.17) (ft-lbs)	9 Dry plain K = 0.20 (ft-lbs)	Tightenin Lubed K = 0.15 (ft-lbs)	ng Torque Dry plain K = 0.20 (ft-lbs)	
	B	Dia. (mm) 3 3.5 4 5	0.5 0.6 0.7 0.8	Tig Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3	Class 4.6 4.6 Dry Plated K = 0.17 (ft-lbs) 0.32 0.50 0.74 1.5	rque Dry plain K = 0.20 (ft-lbs) 0.38 0.59 0.87 1.8	Tig) Lubed K = 0.15 (ft-lbs) 0.73 1.1 1.7 3.4	Class 8.8 8.8 Dry Plated K = 0.17 (ft-lbs) 0.82 1.3 1.9 3.9	ue Dry plain K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5	T Lube K = 0.1 (ft-lbs 1.0 1.6 2.4 4.9	Class 10, 10,9 ightening To d Dry Plated 5 K = 0.17 (ft-lbs) 1.2 1.9 2.7 5.5	9 Dry plain K = 0.20 (ft-lbs) 1.4 2.2 3.2 6.5	Tightenii Lubed K = 0.15 (ft-lbs) 1.2 1.9 2.8 5.7	ng Torque Dry plain K = 0.20 (ft-lbs) 1.6 2.5 3.8 7.5	
	B	Dia. (mm) 3.5 4 5 6	0.5 0.6 0.7 0.8 1	Tigl Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3 2.3	Class 4.6 4.6 Dry Flated K = 0.17 (ft-lbs) 0.32 0.50 0.74 1.5 2.6	que Dry plain K = 0.20 (ft-lbs) 0.38 0.59 0.87 1.8 3.0	Tigi Lubed K = 0.15 (ft-lbs) 0.73 1.1 1.7 3.4 5.8	Class 8.8 B.8 Dry Plated K = 0.17 (ft-lbs) 0.82 1.3 1.9 3.9 6.5	ule Dry plain K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5 7.7	T Lube K = 0.1 (ft-lbs 1.0 1.6 2.4 4.9 8.3	Class 10. 10.9 ightening To d Dry Plated 5 K = 0.17) (ft-lbs) 1.2 1.9 2.7 5.5 9.4	9 Dry plain K = 0.20 (ft-lbs) 1.4 2.2 3.2 6.5 11	Tightenii Lubed K = 0.15 (ft-lbs) 1.2 1.9 2.8 5.7 9.7	ng Torque Dry plain K = 0.20 (ft-lbs) 1.8 2.5 3.8 7.6 13	
	B	Dia. (mm) 3.5 4 5 6	0.5 0.6 0.7 0.8	Tig Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3	Class 4.6 4.6 Dry Plated K = 0.17 (ft-lbs) 0.32 0.50 0.74 1.5	rque Dry plain K = 0.20 (ft-lbs) 0.38 0.59 0.87 1.8	Tig) Lubed K = 0.15 (ft-lbs) 0.73 1.1 1.7 3.4	Class 8.8 8.8 Dry Plated K = 0.17 (ft-lbs) 0.82 1.3 1.9 3.9	ue Dry plain K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5	T Lube K = 0.1 (ft-lbs 1.0 1.6 2.4 4.9	Class 10, 10,9 ightening To d Dry Plated 5 K = 0.17 (ft-lbs) 1.2 1.9 2.7 5.5	9 Dry plain K = 0.20 (ft-lbs) 1.4 2.2 3.2 6.5	Tightenii Lubed K = 0.15 (ft-lbs) 1.2 1.9 2.8 5.7	ng Torque Dry plain K = 0.20 (ft-lbs) 1.6 2.5 3.8 7.5	
	B	Dia. (mm) 3 3.5 4 5 6 6 7 8	0.5 0.6 0.7 0.8 1 1.25 1 1	Tigl Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3 2.3 2.1 3.8 5.9	Class 4.6 4.6 Dry Plated K = 0.17 (ft-lbs) 0.32 0.50 0.74 1.5 2.6 2.3 4.3 6.6	que Dry plein K = 0.20 (ft-lbs) 0.38 0.59 0.87 1.8 3.0 2.7 5.0 7.8	Tigi Lubed K = 0.15 (ft-lbs) 0.73 1.1 1.7 3.4 5.8 5.3 9.7 15	Class 8.8 8.8 Dry Plated K = 0.17 (ft-lks) 0.82 1.9 3.9 6.8 6.0 11 17	UE Dry plain K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5 7.7 7.0 13 20	T Lube K = 0.1 (ft-lbs 1.0 1.6 4.9 8.3 7.6 14 22	Class 10, 10,9 ightening To d Dry Plated 5 K = 0.17) (ft-lbs) 12 13 13 2.7 5.5 9.4 8.6 16 24	9 Vrque Dry plain K = 0.20 (ft-lbs) 1.4 2.2 3.2 6.5 11 10 19 29	Tightenii Lubed K = 0.15 (ft-lbs) 1.2 1.9 2.8 5.7 9.7 8.8 16 25	ng Torque Dry plain K = 0.20 (ft-lbs) 1.6 2.5 3.8 7.5 13 12 22 34	
	B	Dia. (mm) 3 3.5 4 5 6 6 8 7 8 8 8	0.5 0.6 0.7 0.8 1 1.25 1 1.25	Tigl Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3 2.3 2.1 3.8 5.9 5.5	Class 4.6 4.6 Dry Plated K = 0.17 (ft-lbs) 0.32 0.50 0.74 1.5 2.6 2.3 4.3 6.6 6.2	que Ory plain K = 0.20 (ft-lbs) 0.39 0.87 1.8 3.0 2.7 5.0 7.8 7.3	Tig Lubed K = 0.15 (ft-lbs) 0.73 1.1 1.7 3.4 5.8 5.3 9.7 15 15 14	Class 8.8 8.8 Dry Plated K = 0.17 (ft-lbs) 0.82 1.3 1.9 6.6 6.0 11 17 16	ue Dry plain K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5 7.7 7.0 13 20 19	T Lube K = 0.1 (ft-lbs 1.0 1.6 2.4 4.9 8.3 7.6 14 22 20	Class 10, 10,9 ightening To d Dry Plated 5 K = 0.17 1.2 1.9 1.2 1.9 2.7 5.5 9.4 8.6 16 24 23	9	Tightenii Lubed K = 0.15 (ft-lbs) 1.2 1.9 2.8 5.7 9.7 9.7 8.8 16 25 24	ng Torque Dry plain K = 0.20 (ft-lbs) 1.6 2.5 3.8 7.6 13 12 22 34 31	
	B	Dia. (mm) 3 3.5 4 5 6 8 7 8 8 8 10 10	0.5 0.6 0.7 0.8 1 1.25 1 1.25 1.25 1.5	Tigg Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3 2.3 2.1 3.8 5.9 5.5 5.5 11 11	Class 4.6 4.6 Dry Plated K = 0.17 (ft.lbs) 0.32 0.50 0.74 1.5 2.6 2.3 4.3 6.6 8.2 13 12	Paue Dry piein K = 0.20 (ft-lbs) 0.38 0.59 0.87 1.8 3.0 2.7 5.0 7.8 7.3 15 14	Tigl Lubed K=0.15 (ft-lbs) 0.73 1.1 1.7 3.4 5.8 5.3 9.7 15 5.3 9.7 15 14 29 28	Class 8.8 Rening Toro Dry Plated K = 0.17 (ft-lbs) 0.82 1.3 1.9 3.9 6.6 6.0 11 17 16 33 32	pue Dry plain K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5 7.7 7.0 13 20 19 39 37	T Lube K = 0.1 (ft-lbs 1.0 1.6 2.4 4.9 8.3 7.6 14 22 20 20 42 40	Class 10, 10,9 ightening To d Dry Plated 5 K = 0.17) (ft-lbs) 1.2 1.9 2.7 5.5 9.4 8.6 16 24 24 48 45	9 Prove Pry plain K = 0.20 (ft-lbs) 1.4 2.2 3.2 6.5 11 10 19 29 27 56 53	Tightenia Lubed K = 0.15 (ff-lbs) 1.2 2.8 5.7 9.7 8.8 16 25 24 49 47	ng Torque Dry plain K = 0.20 (tt-lbs) 1.6 2.5 3.8 7.6 13 12 22 34 31 86 66 62	
	B	Dia. (mm) 3 3.5 4 5 6 8 7 8 8 8 10 10 10 12	0.5 0.6 0.7 0.8 1 1.25 1 1.25 1.25 1.25 1.25	Tigu Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3 2.3 2.1 3.8 5.9 5.5 11 11 21	Class 4.6 4.6 DryPlated K = 0.17 0.32 0.50 0.74 1.5 2.6 4.3 6.6 6.2 13 4.3 6.6 8.2 12 23	Que Ory plain K = 0.20 (ft-libe) 0.38 0.59 0.87 1.8 3.0 2.7 5.0 7.8 7.3 15 14 28	Tigi Lubed K=0.15 (ft-lbs) 0.73 1.1 1.7 3.4 5.8 5.3 9.7 15 14 29 28 53	Class 8.8 8.8 Dry Plated K = 0.17 (R-lbs) 0.82 1.3 9 6.6 6.0 11 17 16 33 32 60	ute Dry plein K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5 7.7 7.0 13 20 19 39 37 71	T Lube K = 0.1 (ft-lbs 1.0 1.6 2.4 9 3.3 7.6 14 22 20 40 76	Class 10, 10,9 ightening To d Dry Plated 5 K = 0.17) (ff-lbs) 1.2 1.9 2.7 5.5 9.4 8.6 16 24 23 48 45 86	9 Dry plain, K = 0.20 (ft-lbs) 1.4 2.2 6.5 11 10 19 29 27 56 53 101	Tightenia Lubed K = 0.15 (ft-lbs) 1.2 1.9 2.8 5.7 9.7 8.8 16 25 24 49 47 89	ng Torque Dry plain K = 0.20 (tt-lbs) 1.8 2.5 3.8 7.6 13 12 22 34 31 66 66 62 119	
	B	Dia. (mm) 3 3.5 4 5 6 8 7 8 8 7 8 8 10 10 12 12	0.5 0.6 0.7 1.25 1 1.25 1.25 1.25 1.5	Tigl Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3 2.3 2.1 3.8 5.9 5.5 11 11 11 21 20	Class 4.6 4.6 0rg Plated K = 0.17 0.32 0.50 0.74 1.5 2.6 2.3 4.3 6.8 6.2 13 12 23 22	que Dry plein K = 0.20 (ft-lbs) 0.38 0.59 0.87 1.8 3.0 2.7 5.0 7.8 7.3 15 14 28 26	Tigg Lubed K = 0.15 0.73 1.1 1.7 3.4 5.8 5.3 3.7 15 14 29 28 53 51	Class 8.8 8.8 Dry Plated K = 0.17 (ft-lbs) 0.82 1.3 1.9 6.6 6.0 11 17 16 33 32 60 58	UE Dry plein K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5 7.7 7.0 13 4.5 7.7 7.0 13 9 39 37 71 68	T Lube K = 0.1 (ft-lbs 2.4 4.9 8.3 7.6 2.4 4.9 8.3 7.6 14 22 20 42 42 42 40 76 73	Class 10, 10,9 ightening To d Dry Plated 5 K = 0.17 1,2 1,9 1,2 1,9 1,2 1,9 2,7 5,5 9,4 8,6 16 16 24 23 48 45 82	9	Tightenii Lubed K = 0.15 (ft-lbs) (ft-lbs) (ft-lbs) (ft-lbs) (ft-lbs) 1.2 1.9 1.2 1.9 2.8 5.7 9.7 8.8 16 16 25 24 49 47 47 89 85	ng Torque Dry plain K = 0.20 (ft-lbs) 1.6 2.5 3.8 7.6 13 12 22 34 31 86 6 62 119 113	
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	B	Dia. (mm) 3. 3. 5 6 6 8 7 8 8 10 10 10 12 12 12 12 14 14	0.5 0.6 0.7 0.8 1 1.25 1.25 1.25 1.5 1.25 1.5 1.25 1.5 1.5	Tigu Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3 2.3 2.1 3.8 5.9 5.5 11 11 21 20 19 26 28	Class 4.6 4.6 Dry Plated K = 0.17 (ft-lbs) 0.32 0.50 0.74 1.5 2.6 6.6 6.2 13 4.3 6.6 6.2 13 22 21 29 32	Que Ory plain (ft-libe) 0.38 0.59 0.87 1.8 3.0 2.7 5.0 7.8 7.3 15 14 28 26 25 34 37	Tigl Lubed K=0.15 (ft-lbs) 0.73 1.1 1.7 3.4 5.3 5.3 9.7 15 14 29 28 53 51 14 29 28 53 51 49 66 72	Class 8.8 8.8 Dry Plated K = 0.17 (R-lbs) 0.82 1.3 9 6.6 6.0 11 17 16 33 32 60 58 55 55 82	ue Dry plain K = 0.20 (fl-lbs) 0.97 1.5 2.3 4.5 7.7 7.0 13 20 19 39 37 71 68 68 65 99 96	T Lube K = 0.1 (ft-lbs 0.3 76 2.4 49 9.3 76 14 22 20 42 20 42 20 76 73 70 70 5 5 103	Class 10, 10,9 1	9 Prove Dry plein, K = 0.20 (ft-libs) 1.4 2.2 6.5 11 10 19 29 27 56 53 101 97 93 127 138	Tightenia Lubed K = 0.15 (ft-lbs) 1.2 1.9 2.8 5.7 9.7 8.8 16 25 24 49 47 89 85 81 111 121	ng Torque Dry plain K = 0.20 (tt-lbs) 1.6 2.5 3.8 7.6 13 12 22 34 31 86 62 119 113 106 62 119 113 106 148 161	
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	B	Dia. (mm) 3.5 4 5 6 7 8 8 8 10 12 12 12 12 12 12 12 14 14 14 14 14 16 18	0.5 0.6 0.7 0.8 1 1.25 1.5 1.25 1.5 1.25 1.5 1.5 2 1.5 2 1.5 2 1.5	Tigl Lubed K = 0.15 (ff-lbs) 0.28 0.44 0.66 1.3 2.3 2.1 3.8 5.9 5.5 11 21 20 19 26 28 30 50 47 73	Class 4.6 4.6 Dry Plated K = 0.17 (ft-lbs) 0.32 0.50 0.74 1.5 2.6 6.6 6.2 13 4.3 6.6 6.2 13 22 21 21 29 32 34 57 53 82	que Ory plain K = 0.20 (ft-libe) 0.38 0.59 0.87 1.8 3.0 2.7 7.8 7.3 15 5.0 7.8 7.3 15 14 28 26 25 34 37 40 67 97	Tigg Lubed 0.73 1.1 0.73 1.1 3.4 5.3 9.7 15 14 29 53 51 49 66 72 78 121 187	Class 8.8 8.8 Dry Plated K = 0.17 (ft.lbs) 0.82 1.3 9 6.6 6.0 11 17 16 33 32 60 50 50 50 50 50 50 50 50 50 5	ue Dry plain K = 0.20 (fl-liss) 0.97 1.5 2.3 4.5 7.7 7.0 13 20 19 39 37 71 68 65 69 96 104 171 161 249	T Lube K = 0.1 (ft-lbs 0.3 76 2.4 4.9 9.3 76 70 70 70 70 70 70 70 70 103 111 184 4.7 73 288	Class 10, 10,9 1	9 Prove Dry plain, K = 0.20 (ft-libs) 1.4 2.2 6.5 11 10 19 29 27 56 53 101 97 93 127 138 148 245 230 357	Tightenia Lubed K = 0.15 (ft-lbs) 1.2 2.8 5.7 9.7 8.8 16 25 24 49 47 89 85 81 111 121 130 215 202 313	ng Torque Dry plain K = 0.20 (tt-lbs) (tt-lbs) 13 12 22 34 31 86 62 119 113 108 148 161 173 287 269 417	
	B	Dia. (mm) 3.5 4 5 6 8 7 8 8 10 10 12 12 12 12 12 12 14 14 14 14 14 14 14 16 18 18	0.5 0.6 0.7 0.8 1 1.25 1.25 1.25 1.25 1.25 1.25 1.5 2 1.5 2 1.5 2 1.5 2 1.5 2 1.5	Tig) Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3 2.3 2.1 3.8 5.9 5.5 11 11 21 20 26 28 30 50 47	Class 4.6 4.6 0rg Plated K = 0.17 (ft-lbs) 0.32 0.50 0.74 1.5 2.6 2.3 4.3 6.6 6.2 13 12 23 22 21 29 32 34 57 53	que Dry plain K = 0.20 (ft-lbs) 0.38 0.59 0.87 1.8 3.0 2.7 5.0 7.8 7.3 1.5 1.4 26 25 34 37 40 67 62	Tigg Lubed K=0.15 (ff-lbs) 0.73 1.1 1.7 3.4 5.3 9.7 15 14 28 53 51 49 66 72 78 129 121	Class 8.8 Rening Toro Dry Plated K = 0.17 (ft-lbs) 0.82 1.3 1.9 3.9 6.6 6.0 11 17 16 33 32 80 55 55 75 82 88 88 84 81 85 85 85 85 85 85 85 82 88 88 88 88 88 88 88 88 88	ute Dry plain K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5 7.7 7.0 13 20 13 20 13 39 37 71 68 65 65 69 96 104 171 181	T Luber K = 0.1 (ff-lbs 3.7 6 14 4.9 9.3 7.6 14 22 20 42 40 42 40 42 40 76 73 70 95 103 111 184 4 173	Class 10, 10.9 ightening To d Dry Plated 5 K = 0.15; 1.2 1.9 2.7 5.5 9.4 8.6 16 24 23 48 45 85 85 79 108 117 126 206 196	9 Prque Dry plain K = 0.20 (ft-libs) 1.4 2.2 3.2 6.5 11 10 19 29 27 56 53 101 19 27 56 53 107 97 93 127 138 148 245 230	Tightenia Lubed K = 0.15 (ft-lbs) 1.2 1.9 2.8 5.7 9.7 8.8 16 25 24 49 47 89 85 81 111 121 130 215 202	ng Torque Dry plain K = 0.20 (ft-lbs) 1.6 2.5 3.8 7.6 13 12 22 34 31 66 62 119 113 108 148 161 173 287 269	
		Dis. (mm) 3.5 4 5 6 6 7 7 8 8 8 6 7 7 8 8 8 10 10 12 12 12 12 14 14 14 14 14 16 16 18 18 20 20	0.5 0.6 0.7 0.8 1 1.25 1.5 1.25 1.5 1.25 1.5 2 1.5 2 1.5 2 1.5 2 1.5 2 1.5 2 1.5 2 2,5 1.5 2,5 2,5 2,5 2,5 2,5 2,5 2,5 2,5 2,5 2,	Tigs Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3 2.1 3.8 5.9 5.5 11 21 3.8 5.9 5.5 11 21 20 19 26 28 30 50 47 73 65 101 91	Class 4.6 4.6 100 Dry Plated K = 0.17 (ft-lbs) 0.32 0.50 0.74 1.5 2.6 2.3 4.3 6.8 6.2 13 12 23 22 21 29 32 21 29 32 34 57 53 82 73 115 104	que Ory plain K = 0.20 (ft-lbs) 0.38 0.59 0.87 1.8 3.0 2.7 5.0 7.8 7.3 15 14 28 26 25 34 37 40 67 62 97 86 122	Tig) Lubed (ft-lbs) 0.73 1.1 1.7 3.4 5.3 9.7 15 14 29 28 53 51 14 29 28 53 51 14 29 28 53 51 14 29 28 53 51 14 29 28 53 51 14 29 121 187 7270 236	Class 8.8 ■ 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ute Dry plain K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5 7.7 7.0 13 20 19 39 37 71 68 65 65 65 69 96 104 171 161 249 2249 2249 222 360 314	T Lubee K = 0.1 (ft-lbs 1.0 1.6 2.4 4.9 8.3 7.6 2.4 4.9 8.3 7.6 7.7 7.0 7.6 7.7 7.0 7.6 7.7 9.5 103 111 14 173 268 239 9 374 337	Class 10, 10,9 1	9 Dry plain K = 0.20 (ft-lbs) 1.4 2.2 8.5 11 10 19 29 27 58 53 101 97 93 93 127 138 148 245 230 357 318 449	Tightenii Lubed K = 0.15 (ft-lbs) 1.2 1.9 2.8 5.7 9.7 8.8 16 25 24 49 47 89 85 81 111 121 130 215 202 313 279 273 233	ng Torque Dry plain K = 0,20 (ft-lbs) 1.6 2.5 3.8 7.6 13 12 22 34 31 86 62 119 113 108 148 161 173 287 269 417 372 583 525	
	8	Dia. (mm) 3.5 4 5 6 6 7 7 8 8 6 7 7 8 8 10 10 12 12 12 12 12 12 14 14 14 14 16 18 18 20 20 Jamp loase	0.5 0.6 0.7 0.8 1 1.25 1.5 1.25 1.5 1.25 1.5 2 1.5 2 1.5 2 1.5 2 1.5 2 1.5 2 1.5 2 1.5 2 5 2.5 1.5 2 5 2.5 1.5 2 5 2.5 1.5 5 2.5 5 2.5 5 2.5 5 5 5 5 5 5 5 5 5 5	Tigg Lubed K = 0.15 (ft-lbs) 0.28 0.44 0.66 1.3 2.3 2.1 3.8 5.9 5.5 11 21 20 22 23 2.1 3.8 5.9 5.5 111 21 20 26 28 30 50 47 73 65 101 91 culated as	Class 4.6 4.6 100 Dry Plated K = 0.17 (ft-lbs) 0.32 0.50 0.74 1.5 2.6 2.3 4.3 6.8 6.2 13 12 23 22 21 29 32 21 29 32 34 57 53 82 73 115 104	que Ory plain K = 0.20 (ft-libe) 0.38 0.59 0.87 1.8 3.0 2.7 5.0 7.8 7.3 15 5.0 7.8 7.3 15 14 28 26 25 34 37 40 67 97 86 135 122 e proof lo	Tig) Lubed (ft-lbs) 0.73 1.1 1.7 3.4 5.3 9.7 15 14 29 28 53 51 14 29 28 53 51 14 29 28 53 51 14 29 28 53 51 14 29 28 53 51 14 29 121 187 7270 236	Class 8.8 8.8 Dry Plated K = 0.17 (R-lbs) 0.82 1.3 1.9 3.9 6.6 6.0 11 17 16 6.0 50 50 50 55 82 88 146 137 212 189 306 267 cirlied bolts	ue Dry plain K = 0.20 (ft-lbs) 0.97 1.5 2.3 4.5 7.7 7.0 13 20 19 39 37 71 68 65 69 96 104 171 161 249 222 360 314 K = 0.15	T Lube K = 0.1 (ft-lbs 1.0 1.6 2.4 4.9 8.3 7.6 7 0 42 20 42 20 42 20 42 20 42 20 76 73 111 184 40 76 73 103 111 188 239 374 337 for "lubs"	Class 10, 10,9 1	9 Prove Dry plain, K = 0.20 (ft-libs) 1.4 2.2 6.5 11 10 19 29 27 56 53 101 97 93 127 138 148 245 230 357 318 449 449 ithions	Tightenia Lubed K = 0.15 (ft-lbs) 1.2 1.9 2.8 5.7 9.7 8.8 16 25 24 49 47 89 85 21 223 313 279 437 394 D = Nomir	ng Torque Dry plain K = 0.20 (ft-lbs) 1.6 2.5 3.8 7.6 13 12 22 34 31 86 62 119 113 108 148 161 173 287 269 417 372 583 525 val Diameter	

MAINTENANCE

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Description	Application	General Specification	Recomended	
			Mobil Lubricant	
V¦æ&q[¦Á??^妿ĭ∣&&∙Á	Ü^∙^¦ç[ã	RÖËG€Ô TØÁTFFHÍÊTFFIF ØÞPTGÔFHIÖÁÇØÞPG€FD	T[àậ⊣ằãâÁ́G]	
「[, ^¦Á?^妿ĕ a&≉Á‱‱∭Ü^∙^¦ç[ā Ď[åÁ/^{]^¦æĕ`¦^∙Á€≫Á⊘Á⋘ Úcæd⊟M]		ŴUÁIÍÁ05;αäËY^æiËõ[,Á/^{]	T[àậ∕ÖVÒ∕ÆÍT	
Þ[¦{æ†Á^{]^¦æč¦^∙,∰ F€»ÁØÂĴcæˈdËN]Á‱∭∭∭		RÖËG€Ô TØÁTFFHÍÊTFFIF ØÞPÁTGÔFHIÖÇØÞPG€FD	T[àā]⊣ĭãâÁiGIÁ	
Þ[¦{ æ¦Á/^{]^¦æč¦^•Á FÍ »Á2ÁÙæ;cÁV]		ŴUÁIÌÁO5;ca⊟Y^æ÷	T[àậµÖVÒÆÍ	
Pãt@ÁU]^¦ææäj,*Á/^{]È C6a[ç^ÁJ€≫ÁØ		ŴU Æ€€ÁŒ, œË⁄ ^æ	T[àậµÖVÒÆÌT	
Øæ‡ÁÜ^æÁÕ^æà[¢Á‱	۹۵¦^æ^	ÚŒUÁÙ^}œ@œ3&ÁÔ¢d^{ ^ Ú¦^∙∙`¦^ÁÕ^æ¦ÁŠ`à^	T[àā)ÁÜPÔÁÍÍYЁI€ T[àā)ÁFÁÛ^}c@ca&AŐ^æl	
Ôఀœ^¦ÂÙ@œx4BÁÕ¦[`}åÁ Ü[^¦ÂÙ@œx027]æajD	₩Õ¦^æ^ Õ`}	Šão@ã{ËÔ[{] ^¢ Ò¢d^{ ^ÁÚ¦^••`¦^ ÞŠÕOÜÜÙUÁHG€	T[àậ*¦^æ•^/ÔTËÙ	
Ö¦ãç^ÂÙ@œơÂÔ[`] ^¦ Ø∕ æãįÁse)åÁÜ[cæt^D	Õ¦^æ^ Õ`}	Šão@ã{ËÔ[{] ^¢ Ò¢d^{ ^ÁÚ¦^••`¦^ ÞŠÕOŒÜÙUÁHC€€	T[àậ*¦^æ•^/ÔTËÙ	
Ölāç^AÛ@eeo∛[∖^Ê Wˇjājo/BÂÙčàÂÙ@eec	Õ¦^æ^ Õ`}	Šão@ã{ËÔ[{] ^¢ Ò¢d^{ ^ÁÚ¦^••`¦^ ÞŠÕOŒÜÙUÁHC€	T[àậ*¦^æ•^ <i>Á</i> ÔTËÙ	
Ó[[{ÁÛ,ãç^ Ó[[{ÁÔ^ ã}å^\ÁÚãç[or Çü[cæ^ÁBÁØ æã‡ÁÓ[[{D	Õ¦^æ^Á Õ`}	Šão@ã{ÁÔ[{] ^¢ Ò¢d^{ ^Á[¦^••``¦^ ÞŠÕOŒÜÙUÁHC€Á	T[àậ*¦^æ•^ <i>Á</i> ÔTËÙ	
Ö^&\ÁÓ[[{ ÁÚãç[cÁB Ö^&\ÁÙd[]ÁÓEåbŏ∙d{^}c Ü[cæl`ÁBÁØ æäjD	Õ¦^æ^ Õ`}	Šão@ã{ÂÔ[{] ^¢ Ò¢d^{ ^ÁÚ¦^••``¦^ ÞŠÕOËDÙUÁHG€Á	T[àậ*¦^æ•^ <i>Á</i> ÔTËÙ	
Ö^&∖ÂĴ] ðjå ^ÇÜ[æe¦^D	Õ¦^æ^ Õ`}	Vãt^¦ÂÙ]ājå ^ÁŠčà¦a&æa);c]æloÁjč{à^¦ÆĴÍ €€€€€	T[àặão@ÂÙPÔÁGG€	

Ó[[{

POLYCARBONATE CARE AND MAINTENANCE

ÔŠÒŒÞ Œ ÕÁ/P ÒÁ)WÚ ÒÜ ÔU Œ / ÁP ŒÜ ÖËÔU Œ /

- $F\dot{E} \qquad Y \note = @\dot{A} \quad \tilde{a} @\dot{a} dA \quad [|` c\bar{a}] \dot{A} \quad \dot{A} \quad [e a] \dot{A} \quad \dot{A} \quad (e^{+*} \wedge) \quad (e^{-}) \quad \dot{A} \quad (e^{-}) \quad (e^{-}) \quad \dot{A} \quad (e^{-}) \quad (e^{$
- CÈ Wija * Áscár [-cóku][cogát; ká] [} * ^ Ét ^} d^ Á; æ @ko@ Á @^ cókg Á[[•^} Ásiācósa) å Át lãi ^ Ása) å Áāj ^ Á; ^||Á; ão@ku|^ æ) Á ; æc^!È
- $H\dot{E} V[\dot{A}_{1}|^{c}c^{A}] c\dot{A}_{2} = \dot{A}_{1}[\dot{A}_{2}] c\dot{A}_{3} + \dot{B}_{0}c_{2} + \dot{B}_{0}c_{2} + \dot{A}_{1}^{c}c_{2}^{A}\dot{A}_{1}^{c}\dot{A}_{2}^{A} = \dot{A}_{1}^{c}\dot{A}_{2}^{A} + \dot{A}_{1}^{c}\dot{A}_{2}^{A} + \dot{A}_{1}^{c}\dot{A}_{1}^{c}\dot{A}_{2}^{A} + \dot{A}_{1}^{c}\dot{A}_{1}^{c}\dot{A}_{2}^{A} + \dot{A}_{1}^{c}\dot{A}_{1}^{c}\dot{A}_{2}^{A} + \dot{A}_{1}^{c}\dot{A}_{$

ԊҌРQĐÕÁ ŒŨ ÒÞ VÙÁY POÔPÁ POEX ÒÁ Ó Ò ÒÞÁ ØU MÞÖÁ VUÁ Ó ÒÁ ÔUT Ú ŒVOÓŠÒÁ MÞÖ Ò ÜÁ ŠŒ ÓU Ü ŒVU Ü Ÿ ÔU ÞÖ QVQU ÞÙ K

Œ `^[`•ÂÛ[|` @į }•Áį ÂÛ[æ] •Áæ) åÁÖ^ ♂\'*^} œ

Y∄å^¢ Ç FD	V[]ÁR[àÇÐ	RĮ^ÇĐ	T¦ÁÔ ^æ}ÇĐ
Øæ);œe cã (Ĵ+D	Ø[¦{ ઁ æÁi€JÇD	Ùĭ{æ¢ãt@¢#ÖFG	Ó¦`&[å^&ãå
U¦*æ);&&ÂÛ[ç^}o•			
Ó˘ cˆ ÂÔ^ [∙[ç^	S^¦[•^}^	P^¢^∥Ê£20ÈUÈÃÍI	Þæ}@c@æçXTBÚÁ∜¦æå^D
Þ^ ^&[ËÚ æ&∕¦	V″¦&[Áí€IG		
0≣&[@]•			
T^c@29)[@ []¦[]^		

CĘ|Á^•ãã ǎaþÁ;¦*æ) 3&Á{[|ç^} œÁ@{`|åÁà^Á^{ [ç^åÅ ão@ÁæÁ^&[}åæ^Âð]•^È

GRAFFITI REMOVAL

Ó č|Á&^||[•[|ç^ÁÇ{¦Á^{ [çæ‡Á;-Á]æä]orÉA;æd\ā]*Á;^}Áā;\•ÉA]•æ&\ÊA*o&ÈDÁ/@:Á •^Á;-Á;æ•\ā]*Áæa]^É&æå@•ãç^Áæa]^ [¦Áa]oÁ^{ [çæ‡Á[[|•Á;[¦\Á;^||Á[¦Áãæ]*Á;--Á;|åÁ;^ææ@¦^åÁ;æa3]orÈ

V[Á^{ [ç^Áæà^|•ÉÁca&\^¦•ÉÁca&\^¦•ÉÁca&\^¦•^Á·^Á^¦[•^}^A, Á` BÚÁ;æ]@@ea&áá`Á`^}^¦æ|^Á~^&aãç^ÈÁY@}Ás@Á[|ç^}c jāļÁ[cÁ]^}c8æ*Áca&\^¦Á;æe*¦ãaqÉ&ag]]^Á@eaeÁQeeaáÁå¦^^¦Dát[Á[ح?}Ás@Áseå@•ãç^Ása}åÁ;¦{ [cÁ^{ [çæ]È

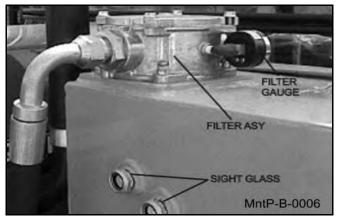
Ó[[{

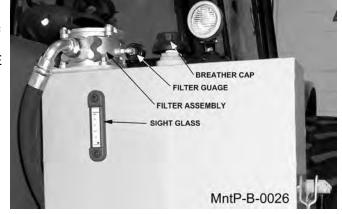
RECOMMENDED FILLING INSTRUCTIONS FOR HYDRAULIC RESERVIORS

Y @}Á4][3] * Á¦ Á&@ & 3] * Á@ Áţ ∄Á^¢ç^ |Ê&@ Á } ãA @` |å à^Á]; æ\^åÁ[; Á∞Á^ç^ |Á*č ¦-æ&^ÈÊ* @ cÁU Ø2Êæ); åÁæ[[•č~æ&a}; cÁa‡ ^Á4[Á&[[|Á4[Áæ; àæ]; cÁv{] ^ ¦æč ¦^ÈA/ ^ &æč cāt]; Á, @} Á\^{ [çā] * Ác@ Á] ¦^••č ¦ã ^ åÁa¦^æc@ ¦È Ö[Á} [cÁ1] læ&^Á-æ&^Á; ç^¦Á[] ^} 3] * Á, @} Á\^{ [çā] * à!^æc@ ¦ÈÁ

 $\begin{array}{l} & \left(A^{+} \right) = \left(A^{$

GÁ^ [`¦Á^•^¦ç⦦ÁœæÁ¦}^Á*ā@ó*¦æ•Ð^{]^¦æč¦^ *æ*^kÁ¥/@Á',•^¦ç⦦Á;@`¦åÁà^Áā|^åÁ{[ÁœÁ&}c'¦ [ÁœÁ*ā@ó*¦æ•Á[}ÁœÁ*āa^Á[ÁœÁæ]\ĔÖ[Á][c [ç^¦Ëā]|ĔQÁ@Á:æ\\ÁœeÁ{[Á]`&@á*ā=Â{[ÂC@Á*¢&^•• { æÂà^Á*¢]^||^åÁ@[`*@á@Á;¦^••`¦ã^åÁa;\^æ@!È





DETAILED MAINTENANCE

ÜÒÚŠŒÔ¢PÕÁQÞË/ŒÞSÁPŸÖÜŒNŠÔÓÁØĞŠVÒÜK

Š[[•^}Åc@A{[`¦Aà[|orA[}Åc@A{[]A&[ç^!A[-Ac@A{a]c*| @[`•ā]*ÈŹ/`|}A&[ç^!A&[`}c*!Ë&|[&\, ã~A´}cāA&[ç^!Aa ⊣^^ÈŽU^{ [ç^Aaa)åA']|a&A^Aa]c*!ÈŽU^]|a&AA[ç^! að)åA&[ç^!Aa[[orAa]A[]][•ãc^A[å^!AaeA^{[]c*]}

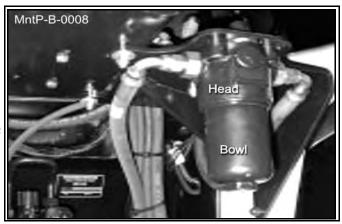


Tæn∄,c^}æ)&^ÁÙ^&ca‡i}Á.ËFF

DETAILED MAINTENANCE

REPLACING HIGH PRESSURE HYDRAULIC FILTER ELEMENT:

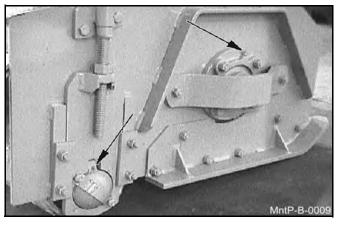
Ò) • ` ¦^Ác@æcÁc@Á•^ • c^{ Á@æ Áà^^} Á• @ c/å[, } Áæ) å å^Ë ¦^••` ¦ã^åÈÅ Š[&æc^Á P∄ @Á Ú!^••` ¦^Á Øặc' @` • ३ * ÈÔ[} -ā{ Ác@æcÁc@Á^|^{ ^} o⁄g Đ/Ĩ] Ác@Áāc' { [å^Áð] • cæl/åÅ(æc&@•Ác@Á^|^{ ^} o⁄g Đ/Ĩ] Ác@Áāc' { [å^|Ácæ ÈĂExample: V3.0510-06 (world line 100, HD049 model)ÁŠ[&æc^Ác@Áà[cc[{ Á[-Ác@Á₽Ê @ Ú!^••` ¦^Á Ó[, |ÈĂ W• ३ * Á c@Á àa]] ![] ãæc^Á•] æ) }^! , 'A} &@Á[!Á!æc&@ ĆĂ ć !} Á ३ ÁæÁ&[` } c^!& |[&, ã^ ![cæcā] } ÊÁQĨ[\ 3 * ÁæcÁ@ Áà[cc[{ Á[-Ác@ ÁPÊ @ Ú!^••` ¦^Á Ó[, |ÈĂ W• 3 * Á c@Á aa]] ![] ãæc^Á•] æ) }^! ; 'A} &@Á[!Á!æc&@ ĆĂ ć !} Á ३ Áæá&[`] c*!& |[&, ã^ ![cæcā] } ÊÁQĨ[\ 3 * ÁæcÁ@ Áà[cc[{ Á[-Ác@ Áà[, |DÁc] !^ /{ [c~Ác@ Áa], |Á'| { Ác@ Á@æåÈŹ /@ Áā• c⁄&[`] /Á ~ ![cæcā] • Á, ä|Á•^^{ { Acê @Áæ Ác@ Á] Ë] * Á æ• A* Ác@ • ^æ]ā * Á +æe ÈÁU] &^ Ác@ Á[Ë!]a * Á æe A&A; * åAc@



•^æ‡á*Á¦ææ Ác@Áá[, |Á:@[°] |åÁ]ð;Á¦^^|ˆÈÁVæ}ð;*Á&æ;^Á;[cÁt[Áå¦[]Ác@Áà[, |ÉÁð;ã@Á\^{ [çð;*Ác@Áà[, |Á¦[{Ác@ @æåÈÁWARNING: bowl will be full of oil!Á

GREASING CUTTERSHAFT -- FLAIL MOWERS

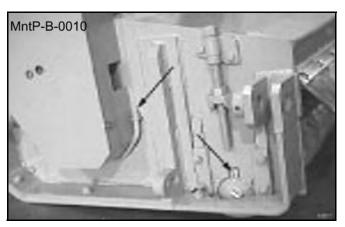
$$\begin{split} &\tilde{S}[\&ext{A}^{+}|^{ext{A}^{+}} &\tilde{A}^{+}|^{ext{A}^{+}} &\tilde{A}^{+} &\tilde{A}^$$



Tæn [c^}æ) & ÂÛ^& ca[} A ËFG

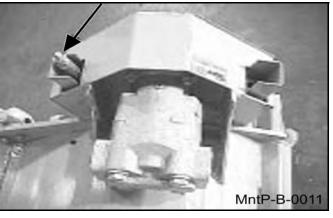
GREASING GROUND ROLLER SHAFT-- FLAIL

$$\begin{split} &\check{S}[\&\&\&\& A^{*}|^{A} \otimes A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*}|^{A} A^{*$$



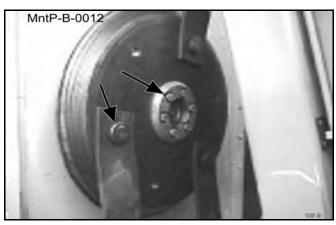
ADJUSTING/CHECKING BELT TENSION

 $\begin{array}{l} & \left(\dot{A} \underline{a} \underline{a} \dot{A} \right) \left(\dot{A} \underline{a} \underline{a} \dot{A} \right) \left(\dot{A} \underline{a} \underline{a} \dot{A} \right) \left(\dot{A} \underline{a} \underline{a} \dot{A} \right) \left(\dot{A} \underline{a} \underline{a} \dot{A} \right) \left(\dot{A} \underline{a} \underline{a} \dot{A} \right) \left(\dot{A} \underline{a} \underline{a} \dot{A} \right) \left(\dot{A} \underline{a} \underline{a} \right) \left(\dot{A} \underline{a} \right) \left(\dot{A} \underline{a} \underline{a} \right) \left(\dot{A} \underline{a} \underline{a} \right) \left(\dot{A} \underline{a} \underline{a} \right) \left(\dot{A} \underline{a} \underline{a} \right) \left(\dot{A} \underline{a} \underline{a} \right) \left(\dot{A} \underline{a} \underline{a} \right) \left(\dot{A} \underline{a} \underline{a} \right) \left(\dot{A} \underline{a$



TIGHTENING KNIFE BOLTS AND DISK BOLTS:

Œe^¦Á^ç^¦^ÂİÁ@[`¦•Á[,-Á[]^¦æeā]}Á[¦Áåæaā]ÊÉo@∘ÁS}ã^ Ó[|orÁæ)åÅåã\Áà[|orÁ @[`|åÅà^Áæã@?}}^åÁæeÁ[||[, •K S}ã^Á[, [`}cā]*Áà[|orÁ[¦``^Á[Â,€€Á[`à¦a&æe*åÁdĚÅà•È Öã:\Á, [`}cā]*Áà[|orÁ[,``^Á[Â,€€Á[`à¦a&æe*åÁdĚÅà•È Čã:\Á, [`}cā]*Áà[|orÁ[,`adÈDÁ[;'``^Á[ÁG€IÁå;'^Á,¦ÁFÌ€ |`à¦a&æe*åÁdÈÅà•È

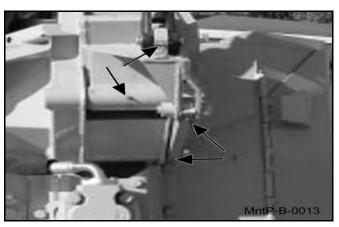


Tænājc^}æ)&^ÁÛ^&caãj}ÁiËFH

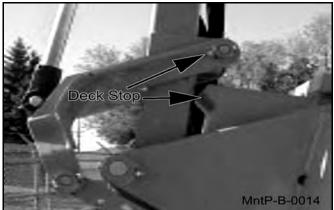
Í 4237'Cn:o q'I tqwr 'Kpe0

GREASING POINTS ON BOOM AND PIVOT

Š[&ææ^Á*¦^æ•^Á^¦\•Á;}Åå^&\Ajãp[ơ4•^{à|ˆÊ4;}Åœ å^&\Á^}åA[-Á•^&[}åæ4^Âà[[{ÊxæA(æā), Đ^&[}åæ4^ à[[{ Á4jāj dĚæ), å ÁææÁ,ãp,^|Á*}åA[-Á(æā), Åà[[{ ÈØ,b*&c Šão@ã { ËÔ[{]|^¢Á Ò¢d^{ ^Á Ú¦^••`¦^Á*¦^æ^ &[}_{|{ ã}*Ád; Á•ŠÕOSËÜÙUÁHG€Á•]^&ãa38ææā;}•Á`}dā; *¦^æ•^Áà^*ā;•Ád; Á;[{ čå^Á;[{ Á*}å•È



DECK STOP ADJUSTMENT



GREASING SPINDLE

Š[&ææ^Á*¦^æ•^Á-ãæā);*Á;}Áā)•ãå^Á[,√å∿&\ÁQ;`•ā);*È Qub%&A Vāt^¦Á Ù]ājå|^Á Š`à¦a&æa)d]æbdA }`{à^¦ €ÎÍI€€€€Áajd[Á]ājå|^ÁQ[`•ā];*ÈÁØā||Ájã@Á|`à¦a&æa)c `}dāÁ|`à¦a&æa)dÁ,^^]•Á[`dÁ[]Á•]ājå|^Á•^æeÈ Š`à¦a&ææ^Á]ājå|^Á,^^\|^Á;¦Árç^¦^Á,€ÁQ[`'•Á;-Á;-Å



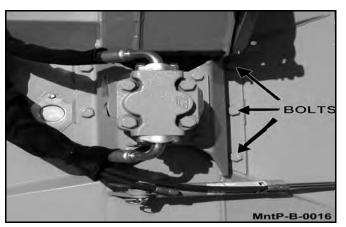
Tæn∄c^}æ)&^ÁÛ^&ca[}}ÁÉEI

Í 4237'Cnco q'I tqwr 'Kpe0

MAINTENANCE

TIGHTENING SPINDLE BOLTS

V@^Á;]ājå|^Á;[`}cāj*Áa[|o•Á@;`|åÁa^Á&@~&\^åÁæ)å |^q['``^åÁåæaaîÁ;¦Á^ç^\'^ Á@;`|•Á; ÁA^\ça&^EAV['``^ c@~ÁŷDÁa[|o•Á@;}}Áa^|[,Á{[Á+1ÍÏÁa\^Á;¦Á+FÍÁdÈAjà•È |`à¦a&ææ^åÈ



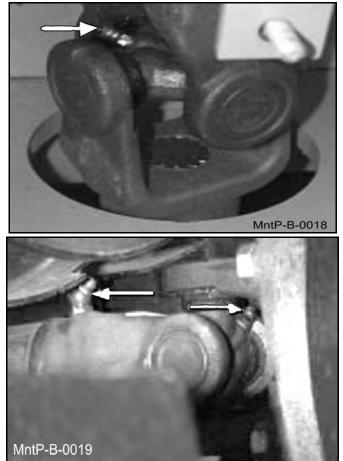
GREASING PUMP DRIVE SHAFT COUPLER

 $\begin{array}{l} Y \; \tilde{a}0 \; \underline{}^{A} + \left[\frac{1}{2} \right] ^{A} \tilde{E}^{A} + \left[\frac{1}{2} \right] ^{A} + \left[\frac{1}{2} \right$



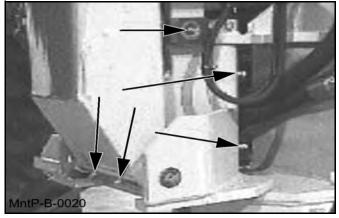
DRIVESHAFT YOKE, U-JOINT STUB SHAFT

Y QQÁ ^}*āj ^Á •d[]] ^åÉÁ āj b^&cÁ Šão@ã { ËÔ[{]|^¢ ^¢d^{ ^Áj,|^••`'|^Á',|^æ^Á&[]-{]{ āj * Áţ Á⊃ ŠÕ QOËEDUU HG€Á] ^&ãã&ææāį} •Á3j d[Á] ãç^\!•æ¢Á&[ā] o Áæj åÁ|āj Á[\^ `} cāļÁ',|^æ^Áæj] ^æ•Áæ¢á@ Á^æ†ĚÕ;|^æ^Á&@{ Áŝæáĵ [!Ávç^!^Â Á@?`]•È



GREASING THE BOOM SWIVEL

Š[&ææ^Ác@A:^¦\•Á[}Ác@A{æajA•, āç^|Áà[••ÁĢã æ]]|a&æà|^DÉA{æajAa[[{ Á]āç[cAà[••ÂĢãÁæ]]|a&æà|^D æ)åA[}Áà[c@Á^}å•Á[~Ás@^Áà[[{ Á•, āç^|Á&`|3)å^!È Qb%&AŠãa@ã{ËD[{]|^¢ÁÒ¢d^{ ^Áu',••`'\^Á*¦^æ^ &[}-{¦{ 3}*ÁqÍAÞŠÕ@EED)UÁHG€Á•]^&ãa&æaāj}A`}cāj *¦^æ^Áa\^*aj•ÁqÍÁ;¦[d`å^Á;[{Á^}å•È



Tæn∄c^}æ)&^ÁÛ^&ca[i}ÁİËFÎ

Í 4237'Cnco q'I tqwr 'Kpe0

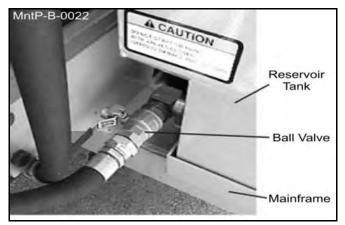
GREASING BOOM CYLINDER(S) PIVOT POINTS

Š[&ææ^Ác@Á^¦\Á;}Ác@Áà`ccÁ}åÁæa)*Á;Á&^Aå`|ājå^¦Áæ)å [}Á'[åÁ^}åÁæa)*ÉQb/%AÁŠãc@ã{ËD[{]|^¢ÁD¢d^{ U|^••`¦^Á*¦^æ•^Á&]}{{} # {{} # *Áq ÁÞŠOCOËDUUÁHO •]^&ãa8ææaa]}•Á`}cāļÁ*¦^æ•^Áà^*ā]•Áq ÁÞŠOCOËDUUÁHO •]^&ãa8æaaa]}•Á`}cāļÁ*¦^æ•^Áà^*ā]•Áq ÁJ'|[d`å^Á+[{ ^}å•ÈAV@ā*Á]![&^å`¦^Áæ*Áq Áà^*ā]•Áq ÁJ'|{d`å^Á+[{ ^}å•ÈAV@ā*Á]![&^å`¦^Áæ*Áq Áà^A`•^åA[}Ác@Á(æaa) à[[{ Á& |ājå^|ÊA+^&[]}åæ^^!•Áåæaaaaaaaaa}Á]] ağ[cÉAæ)åÁ•, āç^|Á& |ājå^!•ÁåæaaaaaaaaaaaA Á@2`| ājc^!çæ+È



BALL VALVES

V@ÁaæļlÁçæţç^ÁæÁœÁc@Á@ålæ`læÃA^•^¦ç[āÁ{æÂ}^^å ﴿ Áa^Á&[•^åÁå`lậ *Á&\æand A ænd A ænd A ænd A ænd A e



Blades

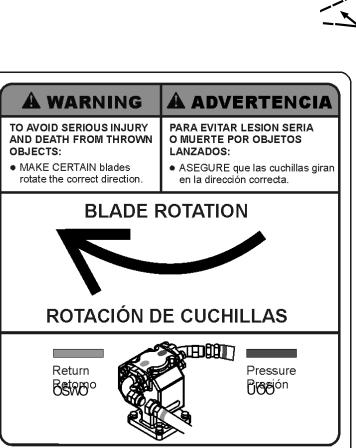
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Ó|æå^•Á*@(´|åÁæd, æê•Áa^ÁA^]|æ&^åÁā,Ájæã•ÈÓ|æå^•Á[-Áãã--^¦^}oÁ, ^ãt@•Á&æ)Á&æ`•^Á*^¦ā[`• ā[àææ]&^Áæ]å&æ;æ*A&[Á@:Á]æ&@}^Áæ]åÁ]^!•[}}^|ÈÁY@}A^]|æ&a]*Áa|æå^•É&æ}^Á&æ}^Á&æ !^]|æ&^Á@:Áa|æå^Áa[|o=ÊA]`o=É&e}åÅ;æ@!•È



Tæ\^Á•`¦^Ác@Á([,^!Áa|æaå^•Áæk^Áč'}]ā]*Á&|[&\,ā*^Á,@}}Á[[\ā]* å[,}A+[{ Ác@Áq[]Á[-Ác@Á([,^!ÈAQ[||[, Ác@Á&[|[!Á&[åā]*Á[}Á@ @妿`|ã&ÁQ[•^•Áæ]åÁācā]*•Áq[Ă[æa\^Á*`!^Ác@Á([q[!Áæ]åÁ@åæ`|ã& Q[•^•Áæh^Áæ•^{{a|^å,j,![]^!|^ÈÅQ[}}^&cA@A^*'!^ÁœA[}}^&c4[]}^&c4[] q[4\^åÁācā]*ÈÅQ[}}^&c6(]} q[4\^åÁācā]*ÈÅQ[}}^&c6(]A[]^!]^EÅQ[]}^&c6(]} ačā]*ÈÅV@Áa]æa^Á[cæaā]}Á[}A@A^aæå]*Á*a*^Á[-Ás@Á[]]^!æ[]EÅ åã&&æa**As@Á&c4[æa*]iãæþÁæ;æA![{Ás@A;aæ4[]Aæd[]^!æ[]EÅ



MAINTENANCE

ROTARY KNIFE REPLACEMENT

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- CÈ Ü^{ [c^Á}ãç^•Áæ)åÁ§•]^&cÁ@{\^•Á{;¦Áåæ{æ* æ* ^ÈÁCE+•[Á;ææ&@Á{;¦Á&¦æ&\•Á§;Ác@/Ååã`\ÁÇãÁæ}]|&&æè\^DÁæ{[`}åÁ c@ Á@[أ^•E
- IÈ V@AÁ}ãç^•Aí@[`|åAí,ā]*Á;!^^|^Á[Áæà•[¦àAí@[&、•Á;[{Áã[]æ&oÁ;@}}Aídãā]*Á;àb/&o•EÁ

WHEN CUTTING HEAVY BRUSH, KNIFE BOLTS SHOULD BE INSPECTED HOURLY AND RETORQUED TO 800 LUBRICATED FT. LBS.

REPLACEMENT OF ROTARY DISK/BLADE BAR

A CAUTION Failure to follow the following warnings and instructions may result in serious injury or damage to the equipment or property!

- $\begin{array}{l} \mbox{FÈ} & V @ \mbox{A}_{a}[\ | \mbox{ϕ} \mb$
- HÈ Disks must be inspected daily for hairline cracks between spindle mounting bolts or around the knifeÁnounting bolts. These cracks indicate metal fatigue caused by severe abuse. If cracks are present the disk must be replaced.
- IÈ Qu•]^&oÁc@Áåã;\Á{[`}cā]*Áà[|orÁåæã;ÂÁ_@}}Á&@&&ā]*Ácā*@}^v••Á[-Á\}ã^Á{{[`}cā]*Áà[|orÉÁQÁæÁåã;\ {[`}cā]*Áà[|ofÁa:Á[[•^ÈÉáaÁ(`•orAàA^{{[ç^åÊAc@^æå•Á&]^æ}^åÊA;^•@Ác@^æåÁ[&\ā]*Áæ*^}oÁæ]]|a?åÊÁæ)å cā*@e^}^åÁq[A];[]^¦Áq[;``Aýçæ*`^È
- ÍÈ QÁvaÁ}ã^Á;[`}caj*Ávi[|o/5eÁ[[•^Êbo@^Á^|-Á[&\ā]*Á;`o/A;`•o/bù^Á/]|aa&^åÁve-ÁvaÁæ>ócÁ,¦^&eĕcā[}ÈbŠ`à|aBaæe^ c@^azů•Á,ão@4ve)ceË-^ã^ÉAQ•cae|Áà[|o/Ác@[`*@Á\}ã^Áve)åÁåã\Ba|azů^Áàa∂Á+[{Áà[cd[{Á•ãå^ÉAQ•cae|Á•^|~ |[&\a]*Á;`orÁve)åÁd[¦``^Áxô@{{Á [€€ÁdÊjà•È

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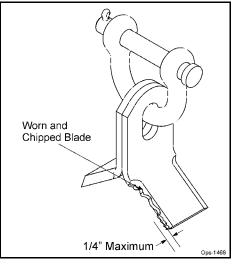


Q•]^&xxxx@AÓ|zeů^+&izeä^+A[+Ázeà}[+{zekA_^zebÄÜÒÚŠŒÔÒAŒŠŠAÓŠŒÖÒÙĄ;}Ac@A&zek+zð+A QTTÒÖQŒS/ÒŠŸÁsÁeà^Ás|zeů^+A@zec^K

- ´´Ó^&[{^Áá^}o/ḥ¦Áá^-{¦{ ^åÁ¦[{Áár 4, lấtājæ‡Á@æ]^ÉÁ;|
- ‴Y^aakÁşj∙ãå^Ás@~Ás|aaå^Ás[|oÁ@;|^ÉÁ;¦
- ‴ OE;^Á&;læ&\●Áæb^Áçãrãa|^ÉÁ;¦Á
- ‴Ö^^]Á*[`*^∙Á§iÁs@?Áà|æå^qA(`¦~æ&^Áæ}^Á;¦^•^}dÉ(`;
- Ő[ǎ*^•Á;¦Á&@a]]^åÁseh^æe/ÁşiÁs@~Á&čccā;*Á*å*^Áseh^Ájæe*^¦Ás@æe)Á乐田+Ç`{{DÁA;¦Á
- ‴ V@^Á(æe^¦ãæoÁ{\}Ás@eÁ^æåã)*Á^å*^Á@æeÁa^^}Á,[¦}Áse;æ∂Áa^Á([¦^Ás@æ)ÁFÐ+Q`{{D

DO NOTÁ dæð @^} ÉA @ee] ^} ÉÁ ^|åÁ ¦Á@ee å Ëæ&^ Áa|æå^•

 $\begin{array}{l} & \mathcal{A}_{\mathbf{x}} \left[\dot{A}_{\mathbf{x}} \right] \left[\frac{1}{2} \mathbf{A}_{\mathbf{x}} \right] \left[\dot{A}_{\mathbf{x}} \right]$



OĘ, æê•Á^] |æ&^Áà|æå^•Á§, Á^œ

- Ó | 282 ^ 4 ka @ 282 / 4 ka 28
- ✓ V@ÁQ|æaţÁ[d[¦Áč;} + ÁsecÁ]^^å Ávç&^^å ∄ * ÁQEEEAÜÚT Ásej å Ási Ási^}æq[a8ædţ] ^ Ásiædæg & å ÁsecÁv@ Áæsdd[¦ ÈÁWÖã-^¦Ë ^} & • Áşi Ási|æså^Á, ^ãt @ Ási^ç, ^^} Á • ^ å Ási|æså^• Á, ãt@Át[•• Át, -Át;æc^¦ãædÁ+[{ Át[č*^• Át]¦Á, ^ æ Áse Ásu[{]æb^å Ási[Á }^, Ási|æså^• Ásæj Ásæĕ • ^ Ár^ç^¦^ Áşãa ¦ææðt] ≯ ásbj å Ásiæq[æt ^ Ást[Ás@ Áz0|æaţÁL[d]; ÉÁCE], æ • Ár]|æst^Ási|æså^• Áse Ásu[{]|^ c^ Á • ^ or È

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Tæn∄ c^}æ) &^ÁÙ^&ca[i} Å ËG€

Blade Pins and D-Ring Inspection

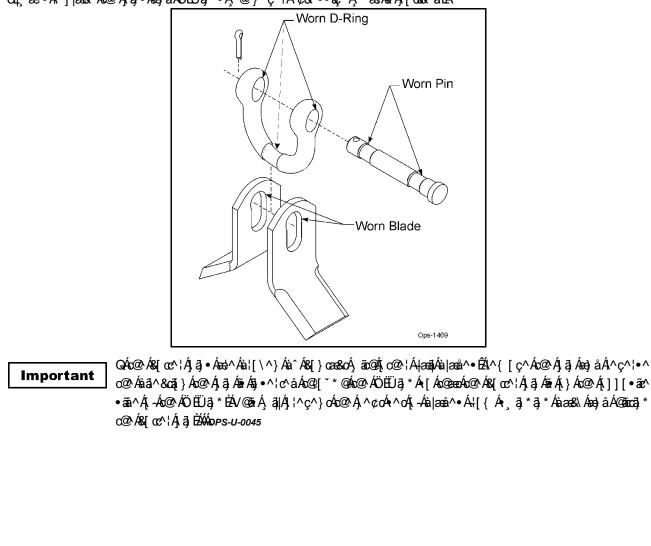
Q•]^&oAÓ|æå^ÁÚa]•Áæ)åÁÖËÜa]*•Áåæa‡îÁ{[¦Á,^æk/{;¦Áåæ{{æ*^Áæ•Á{{||[,•ká



Q•]^&oko@AÓ|æå^Ajā]•AæjåAÖËÜā]*•AåæajîA[¦Aæà}[¦{ æAA ^æbĂTæ}^A`;\^Ao@A&[cc\\Ajā]•Aæ ā]Aj |æ&^AæjåAj:[]^¦[^A;]`\^æåĔÜÒÚŠOEÒÁÓŠOEÖÒÁÚā]•AæjåAÖËÜā]*•AOTT ÒÖOOE/ÒŠŸÁãAó@^ @æç^K

- ‴ Xãrãa|^Á&¦æ&∖•Á(¦
- ‴QÁ⇔ÁÚã;Á,¦ÁÖ⊞Űã;*Á@ee Áçãããa|^Á,[¦}Á⇔s^æÉÃ,¦
- ″ QÁxáÚậ Á, ¦ÁÖĖÜậ * Á@æÁ [ઁ * ^•Á, ¦Á&@ä]] ^åÁxa/æ

Øæa∯`¦^Áq[Á^]|æ&^Áæa}}[¦{æ||^Á,[¦}Ájā)•Á,¦ÄÖËÜa]*•Á,æêÁ(æêÁ\æaåÁ[Á&æææd[]@&AÁæa‡`¦^Áæ)åÁ\b^&aaţ}Á,~ÁœAál[\^}]ædŒÃ,@&R@Á,æÂ&æč•^Á.^¦a[`•Áa[åaîÁa)b'¦^Á;¦Áa^æe@È

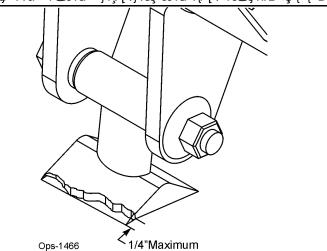


Œ, æî•Á^]|æ&^Áx@eÁjā]•Áæ)å<u>ÁÖËÜā]*•</u>Á,@e}^ç^¦Ár¢&^••ãç^Á,^æ∔ÁarÁ,[ca&∧åÈÁ_

Flail Axe Blades Inspection

Q•]^&oÁc@^ÁÓ|æå^•Áåæąã^Á{¦Áæà}[|{ æ¢Á, ^æÈÄÜÒÚŠŒÔÔÁŒŠŠÁÓŠŒÖÒÙÁ[}Ác@^Á&æł&? QTTÒÖQŒUÒŠŸ/ÁsÁæ}^Ás|æå^•Á@æç^K

- ″Ó^&[{^Áà^}ơḥ¦Áå^-{¦{^àÁ\[{Ááo Á;¦ãtājæ‡Á@eð]^ÊÁ;¦
- Ű UçanhÁ @ada ^Á 、 ada Áŋ ãa 、 Ás@ Áa ada 、 Áa [| oÁ@ | らÁq | らÁq]
- ‴ OĒ, Â& ¦æ& Ì• Ázd-^ Áçã ãa |^ÊĂ, ¦Ă
- ‴Ö^^]Á*[**^•ÁşأÁs@Asi|æå^qA(*'-æ&^Ásd-Aj:\^•^}d£(*
- ´Õ[^{×*}^•Á;¦Á&@aj]^äÁsek¹~æeÁsjÁs@~Á&čcā;*Á^{*}å*^Ásek^Áæ*^¦Ás@ea;AFD+Q`{{DÉA;¦Á
- ″ V@A, æz^¦ãæþÁ,}Ás@A,Aœåã,*Á<å*^Á@æe,Áà^^}Á,[¦}Ásç, æî,Áa,A,[¦^Ásœe),ÁFÐ+Q,{{D



Øæa≇ĭ¦^Át[Á^]|æ&^Á,[¦<mark>}</mark>Á;¦Aåæt[æti^åÅa|æta^•Á;æʿÁr\æåÁt[Á&æææ•d[]@38Aæa‡ĭ¦^Á;A&@Aà|æta^{*}•Áæ)åÁvb∿&ca‡}Á;Á&@ à¦[\^}ÁjæbóÁ,ão@At^{ ^}å[ĭ•Át[¦&^Á,@38@At æĉÁ&æč•^Á*\‡tĭ*•Áa[å‡îÁ5jbĭ¦^Át;kå^æc@At

OĘ, æî•Á^]|æ&∿Áà|æå^•Á§iÁ^œ

- ´´ Ó|æå^•ÁœæxÁæ'Aåaæ(æ*Aåá,æâÁ§åã&ææ*Á^ç^\^Á^\çã&Aá\kæà`•^ÈQAá}}^ábaæ^Áæ´Á[]} Áåaæ(æ*Aák@ek'A` à|æå^•Á;} ÁœAáæ(^Áæ(Aá) @æçÁ â|Á@æç^Áå^} Á`àb*&c*åÁξÁ@Aáæ(^Á^ç^\^Á^\çã&Aá\kæà`•^ÈA

Flail Axe Blade Bolt Inspection

Q•]^&cóÓ|æå^ÁÓ[|œ/ÅåæaậîÁt[¦Á,^æ/Á[¦Áåæąiæ*^ÁæeÁt[||[,•K

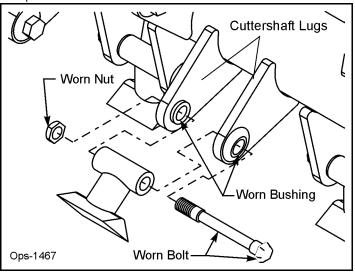


Q•] ^&aÁc@ ÁÓ|æå^ÁÓ[|a%aæãî Á{[¦Áæà} [¦{ æþÁ, ^æbĚÜÒÚŠŒÔÁŒŠŠÁÓŠ ŒÖÒÁÓUŠVÙÁ[} Ác@ &æk¦æ\¦ÁQT T ÒÖQŒ/ÒŠŸÆÁæ) ^Æa[|@ Á@æç^K

- ‴ Xãrãa|^Á&¦æ&∖•Á{¦
- ‴ Q4x@? Áà|æå^ Áà[|ơ/ãa Á [| } Á; | Áa) ^ Á^&^••^å Áad-∞adáa Áçã ãa|^Á; } Ác@ Áà[|dÁ; |

Øænjǐ¦^Áq[Á^]|æ&^Áæaà}[¦{æ||^Á,[¦}Áà[|o•Á[¦Áàǐ•@3];*•Á(æâÁ|^æåÁq[Á&æææ•d[]@38Áæanjǐ¦^Á[~Ás@^Áà|æå^•Áæ)å ^b∿&anj}}Á;Ás@Aài[\^}ÁjæddÉ,@38@A(æôÁ&æě•^Á+lājǐ•Áà[åāîÁa)b`¦^Ájkå^ææ®dĚA

 $\begin{aligned} CE_{j} &\approx \circ A^{j} | \approx A^{j} | \approx A^{j} | (\sigma A_{j} \otimes A^{j} \wedge A_{j} | (\sigma A_{j} \otimes A_{j} \wedge A_{j$



50" FLAIL KNIFE BLADE REPLACEMENT (Light Brush Grass)

- FÈ QÁ}ãç^•Áæd^Áåæ{æ*^åÁ; ¦Áaæå|^Á[;}Êkæ@^Á,ãlÁ,^^åÁqíÁà^Å?] |æ&^åÁæ ÁæÁ^dĚÜ^] |æ&ã; *ÁæÁ;ã; *|^Á}ã^ &æ) Á&æ* • Á
- GÈ QĘ æ Á^] |æ A Á@ Á } ã^ Áa [|œ Á @ } Á^] |æ a * Á@ Á } ãç^• ÈÖU Á> UVÁÜÒWÙÒÁ/PÒÁ SÞ ØØÒÁÓU Š/ÙÁUÜ ÞWUÈ
- $H\dot{E} \qquad OE \bullet \wedge \{\dot{a}| \wedge \dot{A}\} \tilde{a}_{c}^{A} \bullet \tilde{E} \dot{a}_{c}^{A} \bullet$
- $I \grave{E} \qquad Q \bullet caa| A \circ @ A | & a * A @ c A ` o A | A \circ @ c A ` o A | A \circ @ c A ` o A | A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ @ A | a \circ A \circ A | a \circ A \circ @ A | a \circ A \circ A | a \circ A | a \circ A \circ A | a \circ A | a \circ A | a \circ A \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a \circ A | a$
- ÍÈ OEJ]|^ÃS[&cãe∿ÁGÏFÁ[¦Á*ĭĭãçæq^}oÁ{[Ác@,^æå•È
- ÎÈ V[¦˘˘^Á,˘ơÁţÁ,€ÁdĚÅ;a•ÈÁS}ã^Á,(˘•ơÁ,ğ,*Á,¦^^|`È

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50" FLAIL KNIFE BLADE REPLACEMENT (Medium Brush Grass)

- Î È QÁ } ãç ^ Ázd ^ Abazet æt ^ a Át ; / Ábazet | Ât [; } Ét @ ^ Át al Á ^ ^ a Át / Ábazet æt ^ át ; / Ábazet] æzd ^ át / Ábazet æt ^ Át ; / Ábazet] æzd ^ át / Ábazet æt ^ Át ; / Ábazet æt ^ Át ; / Ábazet æt ^ Át ; / Ábazet æt ^ Át ; / Ábazet æt ^ Át ; / Ábazet æt ^ Át ; / Ábazet æt ^ Át ; / Ábazet æt ^ Át ; / Ábazet æt ^ Át ; / Ábazet æt ^ Át ; / Ábazet æt ^ Át ; / Åbazet æt ^ Át ; / Åbazet æt / Åt ; / Åbazet æt / Åt ; / Åt ; / Åbazet æt / Åt ; / Åt ; / Åbazet æt / Åt ; / Åt ; / Åbazet æt / Åt ; / Åt ; / Åbazet
- ÌÈ OĘ, æ̂•Á^] |æ&^ÁœÁ }ã^Áa[|œÁ, @}Á^] |æ&ā; *ÁœÁ }ã^•ĚÖU Á>UVÁÜÒWÙÒÁ/PÒÁ SÞOZÒÁÓU Š/ÙÁUÜ ÞWUÈ

 $\mathsf{F} \in \mathsf{L} \qquad \mathbb{Q} \circ \operatorname{cad}(\mathsf{A} \otimes \mathsf{A}) * \mathsf{A} \otimes \mathsf{C} \mathsf{A} \circ \mathsf{C} \mathsf{A} \circ \mathsf{C} \mathsf{A} = \mathsf{A} \otimes \mathsf{C} \otimes \mathsf{A} \circ \mathsf{A} \circ \mathsf{A} \otimes \mathsf{A} \circ \mathsf{A}$

FFÈ OE,] |^ ÁŠ[& cãe^ ÁGÏ F Á; ¦ Á* ˘ăçaa|^} óA(; Ás@,^ æå• È

 $\mathsf{FG}\grave{\mathsf{E}} \qquad \forall [\ | \ \check{}\ \check{}\ \land \dot{\mathsf{A}}\ \check{}\ \acute{\mathsf{o}}\mathsf{A}[\ \acute{\mathsf{A}}\mathsf{F}\mathsf{G}\mathsf{E}\mathsf{A}\mathsf{d}\check{\mathsf{A}}\mathsf{a}\bullet\check{\mathsf{B}}\mathsf{S} \} \ \tilde{a}^{\mathsf{A}}\mathsf{A}\ \check{}\ \check{}\ \bullet \mathsf{O}\mathsf{A}\ \check{}\ \check{\mathfrak{g}}\ \star \check{\mathsf{A}}\mathsf{A}^{\mathsf{A}} \land \upharpoonright \check{}\ \check{\mathsf{E}}$

 $\begin{array}{c} \ddot{\mathbf{A}} & \ddot{\mathbf{A}} & \ddot{\mathbf{A}} & \ddot{\mathbf{A}} & \dot{\mathbf{A}} & \ddot{\mathbf{A}} & \dot{\mathbf{A}}

50" FLAIL KNIFE BLADE REPLACEMENT (Heavy Duty Brush)

- FHÈ QÁ } ãç ^ 6 Ásd ^ Abazet æt ^ a Át ; / Ásæabazet | Á [; } Éba@ ^ Á, ãl Á ^ ^ a Át / Ás à Át / Ás à Ásæ Ásæk ^ dÉÜ /] [æstā * Ásæk ā * [/ Á] ã ^ 8æa Ásæ · ^ Át ^ ç ^ ; ^ Ásæa Ásæ · ^ Át ^ ç ^ ; ^ Át 3 ã ^ 8æa Ásæ · ^ Át ^ ç ^ ; ^ Át 3 ã ^ 6æ à Áf [• ãa] ^ Áaæt at ^ Át [Ác@ Át [_ ^ ; ^ ; Éb / @ Á] ã ^ @ `] a Á<u>I o</u> fa a / Áa æt ^ Át [/ Ás 3 Åsæ · ^ Át ^ æt ^ Át 3 ã ^ æt 1 / Á] ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í A / Ásæt 3 å /] [• ãa] ^ Áaæt 3 Åt 3 át 3 ã ^ í Asæt 3 å Åt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 ã ^ í Asæt 3 å Åt 3 ã ^ í Asæt 3 å Åt 3 ã ^ í Asæt 3 å Åt 3 å
- FIÈ OĘ, æ•Á^] |æ&^Á@Á }ã^Áa[|œÁ, @}Á^] |æ&a; *Á@Á }ãç^•ÈÖUÁ>UVÁÜÒWÙÒÁ/PÒÁ SÞOZÒÁÓUŠ/ÙÁUÜ ÞWUÈ
- $\begin{array}{cccc} \mathsf{F}\hat{\mathsf{L}} & \mathbb{Q} \bullet \mathfrak{Coord} \wedge \mathfrak{A} \otimes \mathfrak{F} \star \mathcal{A} \otimes \mathfrak{A} \star \mathcal{A} \otimes \mathfrak{A} \star \mathcal{A} \otimes \mathfrak{A} \star \mathcal{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak{A} \star \mathfrak{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak{A} \otimes \mathfrak{A} \times \mathfrak{A} \otimes \mathfrak$
- FÏÈ OE[] |^ ÁĞ[& cãe^ ÁGÏ FÁ[¦ Á*``ãçæ |^} cÁ{[Ác@ ^ æ i• È
- FÌÈ V[¦˘˘^Á,˘ơÁ;áFïÎÁddĂ;à•ÈÁS}ã^Á,(˘•ơÁ,ã,*Á,'^^|`È

 $\begin{array}{c} \ddot{\mathbf{A}} & \ddot{\mathbf{A}} & \ddot{\mathbf{A}} & \ddot{\mathbf{A}} & \ddot{\mathbf{A}} & \ddot{\mathbf{A}} & \dot{\mathbf{A}}

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Tæn (c^) æ) & ÂÙ^ & Cai } Á ËG

63" BOOM FLAIL KNIFE REPLACEMENT

- FÈ QÁ}ãç^•Áæd^Áaæ{æt^åÁ;¦Áaæå|^Á[!}Êko@^Á,ã|Á,^^åAq[Áa^Á]|æ&^åÁæ•ÁæÁ^dÈÜ^]|æ&ã;*ÁæÁ;ã;*|^Á}ã^ &æa)Á&æč•^Á^ç^\^Áçãa;!ææā;}Áæ)åÅ[[••ãa|^Áaæt;æt^Át[Ác@/Á[[,^¦È
- $\begin{array}{ccc} \dot{\mathbf{C}} & \mathbf{C} \mathbf{E} \bullet \wedge \{ \begin{array}{c} \dot{\mathbf{a}} | \wedge \dot{\mathbf{A}} \} & \tilde{\mathbf{a}} c \wedge \bullet \tilde{\mathbf{E}} \mathbf{\hat{\mathbf{S}}} | \wedge c \tilde{\mathbf{a}} \tilde{\mathbf{E}} \tilde{\mathbf{b}} | \left[| \mathbf{o} \cdot \hat{\mathbf{A}} \mathbf{a} \right] & \tilde{\mathbf{a}} \\ \dot{\mathbf{A}} & \mathbf{c} \tilde{\mathbf{A}} & \tilde{\mathbf{A}} \\ \dot{\mathbf{A}} & \tilde{\mathbf{A}} \\ \dot{\mathbf{A}} & \tilde{\mathbf{A}} \\ \dot{\mathbf{A}} & \tilde{\mathbf{A}} \\ \dot{\mathbf{A}} & \tilde{\mathbf{A}} \\ \tilde{\mathbf{A}} & \tilde{\mathbf{A}} & \tilde{\mathbf{A}} \\ \tilde{\mathbf{A}} & \tilde{\mathbf{A}} & \tilde{\mathbf{A}} \\ \tilde{\mathbf{A}} & \tilde{\mathbf{A}} \\ \tilde{\mathbf{A}} & \tilde{\mathbf{A}} \\ \tilde{\mathbf{A}} & \tilde$
- IÈ OE[]|^ÁŠ[&cãe^ÁGÏFÁ[¦Á*`šā;æ4^}oÁ{[Ás@,^æå•È
- ÍÈ V[¦˘˘^Á,˘ó&[Á+ÍÁ2VĚÊÓÙĚÁS}ã^Á,(˘•oÁ,ã,*Á\^^|`È



DO NOT re-use the locking hex nuts for mounting the knives. If hex nut become loose, or require removal for knife replacement or any other reason, they must be discarded and replaced with new nuts.

AWARNING

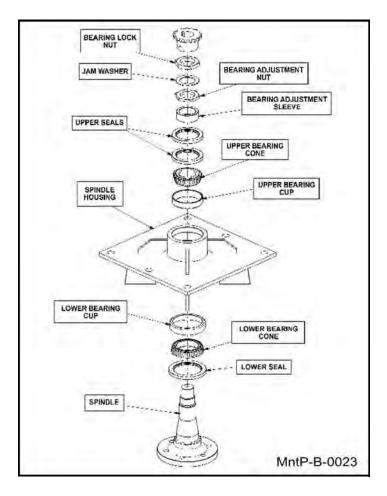
Knives should not be welded on for any reason.

HEAVY DUTY SPINDLE ASSEMBLY INSTALLATION AND BEARING ADJUSTMENT

WARNING!ÁDÁ,¦^••ÁTWÙVÁà^Á •^åÁĮÁ§•œaļÁà^æð]*Á&`]•Édà^æð]*Á&[}^•Édà^æð]*Á&[}^•Édà}åÁ^æ†ÉÖUÁ>UVÁ •^ÁæÁ@æţ{^\ ď Á§•œaļÁæ&^•Édà^æð]*•Édҳ¦Á^æ+Éd⁄@Á,æto•Á,Áæ••{{`à|^Á;æ`Áå^Åaæ{ æ*^åÈÁ

Ó^Á*¦^ÁĮÁ,^æłÁ^^Á,![ơ&qąį}Á;;@ka)åÁ;c@kÁ;![ơ&qą;^Á*čą]{^}ơá;eA,^^å^åÅ;@}Á,[i\ą]*Á;}Á]ą]å/A;ee•^{à/È

THE SPINDLE ASSEMBLY



Tæn∄c^}æ)&^ÁÛ^&ca[i}Á.ËGÎ

UPPER

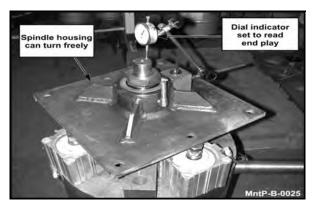
BEARING CUP

BEARING INSTALLATION

- FÈ Ú¦^•• Áĭ]]^¦Áà^æ;ậ* Á&ĭ] Áş, d[Ác@∘Á•] ậ, å|^ @[ĭ•ậ* Ē
- CÈ V[°] ¦} Ác@ Á•] āj å|^ÁQ[°] āj * Áţ ç^¦ Áæj å Áj ¦^•• Áāj c@ Á[, ^¦ Áå^æb āj * Áš[°]] È
- HÈ Ú Jæ&^ Ác@ Á[, ^¦ Ás ^æða * Ás[} ^ Ás[Å@ Ás æða * &`] ÉAD^¢ cÅ, [^•• Ás @ Á* ^æÅs d Ás@ Á*] ða å|^ @ `• ða * ÉV@ Áða } ^! Áða Ås d Ás@ Á* ^æÅ{ `• cAa^ ÖUY ÞÉsti, æå * Ás@ Áa^æða * ÉA [Á` à l &sæ) c/s • ^æ{^ å Ås • ás@ Á@ `• ða * É
- IÈ Q.• cællÁc@Á•] āj ål^Áāj Ác@Á@(`•āj*ÈÁŠāt @af`] '^••Ác@Á;] āj ål^Át[Á^æzÁc@Á&[}^Á;} tj Ác@ •] āj ål^È
- - NOTE: The spindle housing must turn freely when seating the bearing cone and sleeve.
- ĨÈ Ú¦^••Á@Áç[Á]]^¦Ár^憕Áðjq ÁœÁ;]ðjå|^Á@Q`•ðj*ĚÁV@Áðj}^¦ÁðjÁ,-Ác@Ár^憕Á(`•óAà^ÁNÚÉæçæÂ4;[{ c@Áà^æðj*ÊA[Ár¢&^••Á`àlǎ&æ)ó&æðjA*•&æðj^É
- ÌÈ Q•cæl|Ác@Aà^ælā*Áæåbŏ•c{^}c^QājÁ`cDÁ•[Ác@¦^ÁārÁFËFÐ)+Á&|^ælæj&^Áà^c;^^}Ác@Á`čAæ)åÁc@ •|^^c^ÈQ•cæl|Ác@Abæq{Á ær@\EŽ|Jæ&3j*Á@ÁcæàAājq[Ás@Á^^ÈjæÈQ•cæl|Ác@Áà^ælāj*Á[&\Aj`c4Qc@jAj`cD æ)åÁ@e)åÁcāt@c}}Áætæāj•c4bæq{Ájær@\!Áæ)åÁæåbŏ•c{^}c^}cA}`dĚ\U^^Ác@Á{[[[]]ā]*Á•^&cāj}}Á{[!Åà^ælāj* æåbŏ•c{^}dĒ
- JÈ Ú[•ãīā]}Ác@Á•]ājå|^Á@Įč•āj*Á@Į¦ã[}cæa¦^Ájão@Á&u¦æaājÁ@Į|^Á[¦ãr}}cvåÁ‰]+HĚAŐ¦^æ•^Ác@[č*@Ác@Á^¦\ يَتَوَهُلاً مُنْ الْمَالَةِ مُؤْمَرُهُمُ اللَّهُ مُنْ الْمَالَةُ الْمَالِي الْمَالِي الْمَالِي الْمَالِي الْمَال تَوَهُلاً مُنْ اللَّهُ مُنْ الْمَالِي الْمَالِي الْمَالِي الْمَالِي الْمَالِي الْمَالِي الْمَالِي الْمَالِي الْ
- F€È Q,• cæ|Ác@ Á,| ĭ * Áş q Ác@ Ás,¦æş) ÁQ; |^È

BEARING ADJUSTMENT

- FÈ Ô|æ{] Á c@ Á à[cd[{ Á^} å å [-Ás@ Á•] ā å|^ •^&` |^| Áā Áæ¢; ã ^Á•[Ác@ Á•] ā å|^ Áq? • ā * č |}•Á\^^| È
- CÈ Ú[•ãāj } ÁœÁ(æ' }^aãk/àæ ^ Áåãæh/ð åã&æt ! /Á } c@ Á[čc! Aåãæt ^c' !Á] Á@ Á*] ð å|^ Á@ * ð * È S[&æt^ Ár@ Á*] ð å| Á@ * ð * ê S[&æt^ Ár@ Á*] ð å| Á@ Á*] ð å| ^Á* @æt Å * åä d åãæt ! Á ; ð Å] , Á ^æ* !^ Áæ& & ' æt | à åãæt ! Á ; ð Å] æ È
- HÈ Vãt@c^}Ác@cÁà^æłā;*Áæåbč•({^}cÁ;ča); c@:\^Áã;ÁÈEFGÁā;&@4([ç,^{^}cA);@?}Á@ •]ā;å|^Á@;ča];*Áã;Á;!ã?åÄ´];æåÅæ;æÂ4[{ c@:Açã;^Áæ;eE



- IÈ Y@}Ác@¦^Áã,ÁÈEFGÁB;&@Á¦^^Áj|æê Áà^c,^^} c@^Á]ā]å|^Áæ)åÁ@(ゞ•ã]*ÉÈBj•cæ||Ác@/Áà^æ4ā]*Á[&\Áj`cÁÇ@B&\Áj`dDÈAP[|åÁc@Áæåbŏ•cāj*Áj`cÁ+^&`¦^|^Áæ)å cā*@^}Ás@A[&\Áj`cÁt[ÁHEEÁdÉAjà•ÉAt,Át]¦``^È
- ÍÈ CE¢?¦Á@Á[&\Á`óÆiÁæi@^}^åÊx@'¦^Á;`•óAa^ÁÈE€FÁB;&@Át[ÁÈE€HÁB;&@Át[ÁÈE€HÁB;&@Át[ÁÈE€HÁB;&@Át[àčÁ]@?Át]a;*Á] [}Á@Á]ājå|^Á@;`•āj*ÉÅ

ĢÁc@ Á^}åÁ]|æੰÁãiÁ&[¦¦^&dÉÀÈEEFÁ5]&@Á¢[ÁÈE€HÁ5]&@ÉÉà^}åÁæà•Áĭ]Á[}Ábæ{Á]æ®@¦Á¢[Á]¦^ç^}óÁœA[[&\Á}ĭóÁ+[{ |[[•^}3]*È

ĢÁc@ Á*}åÁ; |æʿÁā•Á¤UVÁ&[¦¦^&dÊ4;[[•^} Á@ Á[&\Á,čóæ; åÁč¦}Ác@ Áæåbŏ•q'^}ơÁ;čóÆæ•Á^ččā^åÁæ; åÁ^Ēcā*@^}Á@ [[&\Á,čdĚÜ^]^æcÁā•oÁ; حف أجر حُمْر الْمُحَمَّةُ اللَّهُ

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6.

Tæn ∰ c^}æ) &^ÂÙ^&ca[} }Á ËGÏ

MntP-B-0024

Boom Cylinder Removal and Replacement Instructions

- FÈ Ô|^ælÁc@Áed^æh(ÁedhÁr^!•[}}^|Áe^-{'^Át_^{[}^A;*ác@Áe[[{Á[]^+A@æeÈ
- CÈ Ø[[{ Á@Át/æ&d[¦Á^ædĂ ã@Á[` ¦Á^ædĂ olohæe c^}^åÁæd[` }åÁ[` ÊĂ[, ^ lÁ@Æd [[{ Át [, ^ lÁ@ædÁt Ás@Á * l[` }åÉÖ¢c^}åÁs@Ás[[{ Át Ás@Á` lc@•oÁ^æ&@áse)åÁt, ^ lÁs@Át [, ^ lÁ@ædÅt/ædt, }Ás@Át [` }åÉÖUÁ>UVÁ æsc^{] ódt Á^] |æ&^Ás@Ás`|ðjå^!•Ájã@ás@Æs[[{ Átj Ás@Áæða^åát, lÁtæj•][loát] }È
- HÈ Ù@ơḥ~Ás@Ástæ&qt¦ÉAs}*æ*^Ás@Ájæk\āj*Ástæar^ÉAj|æ&rÁs@Ástæ&qt¦Ástæ}•{ã•āj}ÁsjÁs@Ájæk\Áj[•ãāj}É&ejåÁ ¦^{[ç^Ás@Á^^Ás^-{¦^Ástā{[`}cāj*È
- IÈ O#[[, Ás@^Á^•c^{ Ag / As[[| Ág Á[[{ Ác^{]^!æč !^/As^-{ !^/Án^{ [çā] * Áæ] ^ Á@ å ! æč | a& As[{] [} ^} •
- ÍÈ Y^æ¦Áæ^ĉ Át|æ••^•Áæ)åÁ&[]^}^dæaù|^Át|[ç^•Á,@}}Á,[¦\āj*Á,ãc@Á@妿i|æi/á&;aká@;•^•Áæ)åÁãcāj*•È
- ÎÈ Ü^|^æ•^Áæd|ÁţāļÁ,¦^••`¦^Á¦[{ Ás@.Á@.妿ĕ|a&A&ãa&`ãd&î^Áţæ)`æd|^Á\d[\āj*Á\æ&@4çædç^Á.^&&aāt}}Á_ão@4s@.Átæ&Ë q[¦Á*}*āj^Aţ,~-EAV&ã‡ã^Ás@.Áţæ)`ædĄtç^\¦ãå^Á*}&aāt}&aa(*) &aA® (*``āj]^åÁ¸ão@4se)A`|^&d:a&Aţç^\Á@.妿ĕ|a&A çædç^È
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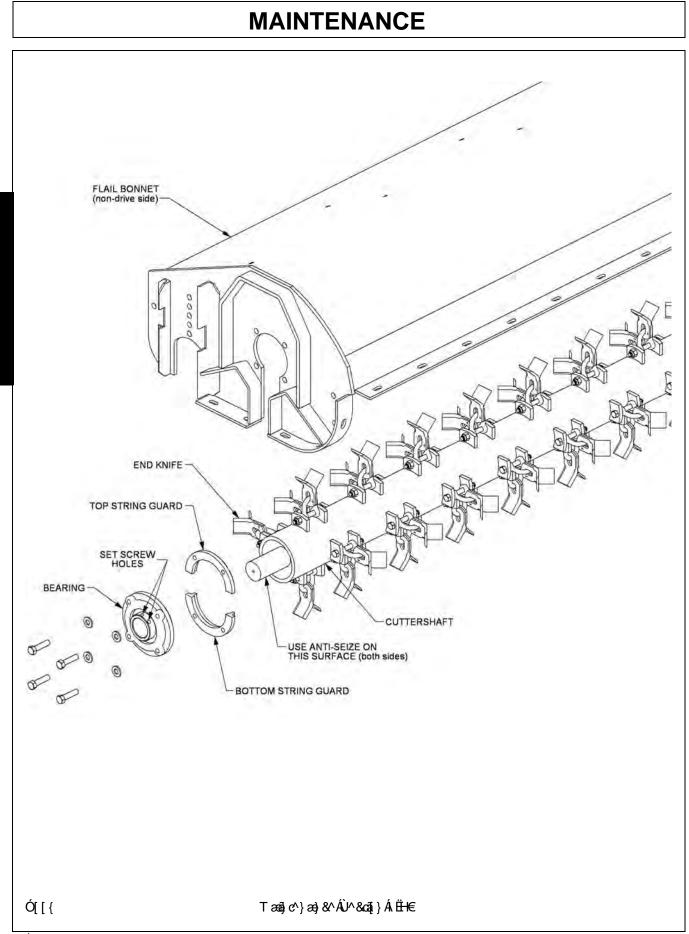
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See illustration on next page



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MAINTENANCE

DAILY MAINTENANCE SCHEDULE

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PARTS SECTION

PART NAME INDEX

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DQQOTGUV"/'QRGP 'UVQY (34
GNGXCVGF 'DQQOTGUV'CFCRVGT())))))))	36
6'URQQN'ECDNG'EQP VTQN'O QWP V000000000000000000000000000000000000	38
ECDNG ^{**} O CP WCN+'NKHV'XCNXG'/'6''URQQN000000	3:
7'URQQN'ECDNG'EQP VTQN'O QWP VIIIIIIIIIII	42
P Q VGU'3())))))))))))))))))))))))))))))))))))	43
ECDNG ^{**} O CP WCN+'NKHV'XCNXG'/'7''URQQN000000	44
LQ[UVKEMCPF "UY KVEJ "DQZ "O QWP VIIIIIIIIIII	46
GNGE VTQP KE 'RTQRQTVKQP CN'NKHV'XCNXG'O QV	WP V000000000000000000000000000000000000
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RQN[ECTDQPCVG'UCHGV['Y KPFQY())	57
RCP QTCO KE 'UCHGV['Y KP F QY (00000000000000000000000000000000000	58
HTQP V'CZNG'UVCDKNK, GT'QRVKQP(5:
RWO R'F TKXGUJ CHV'DTGCMF QY P(62
Y J GGN'URCEGT()	63
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PARTS ORDERING GUIDE

The following instructions are offered to help eliminate needless delay and error in processing purchase orders for the equipment in this manual.

1. The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.

2. The Purchase Order must indicate the Name and Address of the person or organization ordering the parts, who should be charged, and if possible, the serial number of the machine for which the parts are being ordered.

3. The purchase order must clearly list the quantity of each part, the complete and correct part number, and the basic name of the part.

4. The manufacturer reserves the right to substitute parts where applicable.

5. Some parts may be unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a purchase order.

6. The manufacturer reserves the right to change prices without prior notice.

NOTE: When ordering replacement decals, refer to the part numbers and descriptions listed in the safety section in the front of this manual.



For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

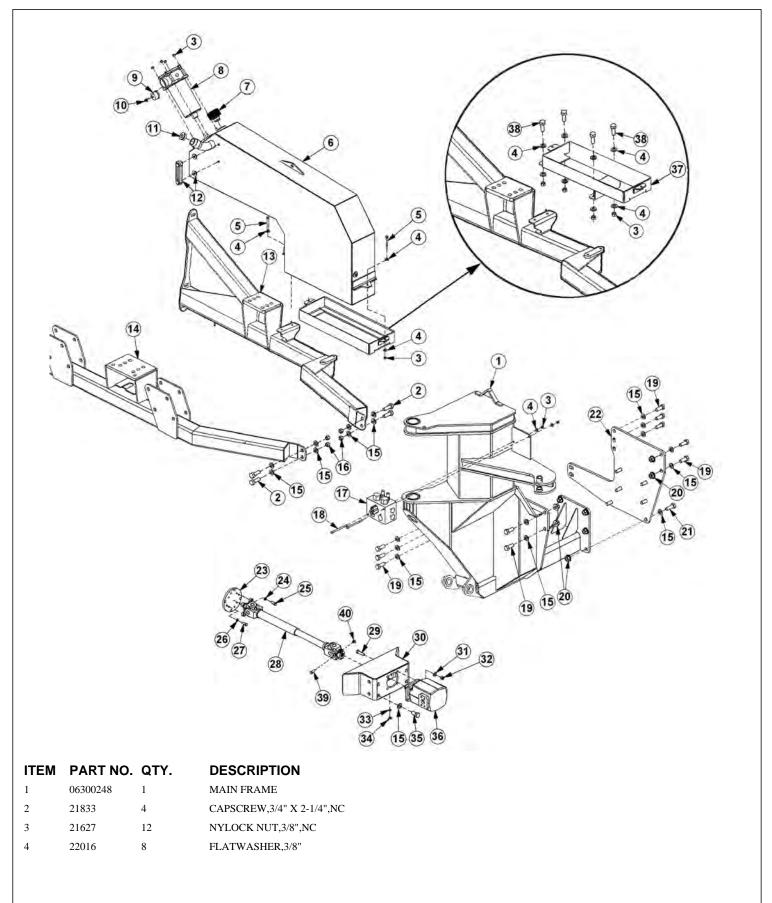
Direct any questions regarding parts to:

Tiger Corporation

3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900

JD6105-125M-R BENGAL

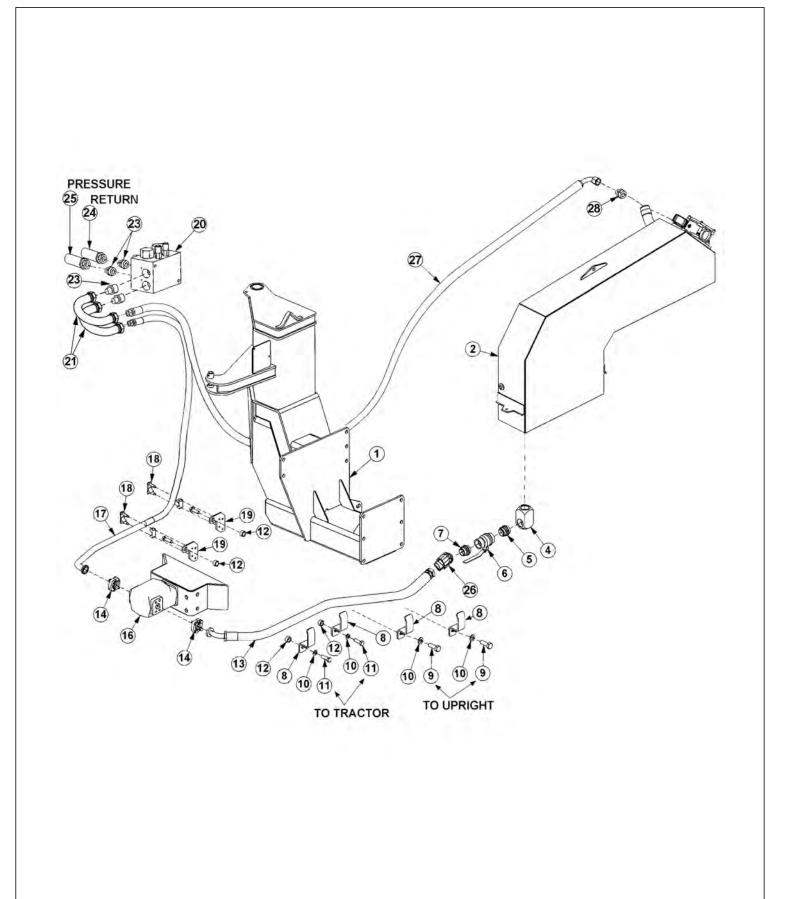
TRACTOR MOUNT KIT



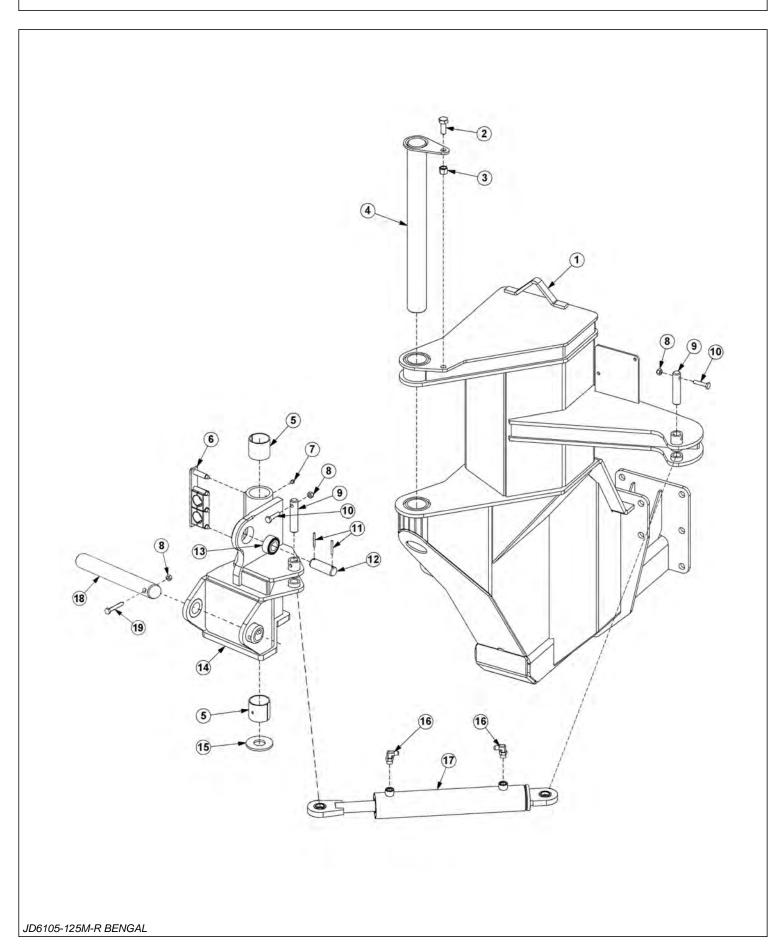
JD6105-125M-R BENGAL

ITEM	PART NO.	QTY.	DESCRIPTION
5	21639	2	CAPSCREW,3/8" X 3-1/4",NC
6	06700091	1	TANK,WHEEL WELL,ASSEMBLY
	06380015	1	TANK, WHEEL WELL, WELDMENT
7	06505077	1	CAP,BREATHER,O-RING
8	06505044	1	FILTER, IN-TANK
9	6T0649	1	FILTER GAUGE
10	TF4888	1	STREET ELBOW,1/8"NPT
11	06505127	1	PLUG,#20 SAE
12	06505067	1	SIGHT GAUGE,LENZ
	06503175	1	KIT,SEAL,SIGHT GAUGE
13	06300257	1	AXLE BRACE,LH
14	06300131	1	AXLE BRACE, RH (SINGLE COLUMN)
	06300019	1	AXLE BRACE, RH (REAR STOW)
15	33880	28	FLATWASHER,3/4",SAE
16	21825	10	HEX NUT,3/4",NC
17	06510084	1	BRAKE VALVE
18	21644	2	CAPSCREW,3/8" X 5",NC
19	31731	10	CAPSCREW,20MM X 50MM,2.5P
20	31722	10	HEX NUT,20MM,FLNG,2.5P
21	27281	6	CAPSCREW,20MM X 60MM,2.5P
22	06402200	1	UPRIGHT,LH
23	34998	1	SPACER, DRIVESHAFT
24	21989	4	LOCKWASHER,7/16"
25	21680	4	CAPSCREW,7/16" X 1-1/4",NC
26	32691	4	LOCKWASHER,10MM
27	23113	4	CAPSCREW,10MM X 30MM,1.5P
28	34999	1	DRIVESHAFT,U-JOINT
29	21733	4	CAPSCREW,1/2" X 2",NC
30	34993	1	PUMP MOUNT
31	06533004	4	FLATWASHER,1/2",SAE
32	21727	4	NYLOCK NUT,1/2",NC
33	22014	1	FLATWASHER,1/4"
34	32519	1	WING NUT,1/4"
35	24860	4	CAPSCREW,20MM X 40MM,2.5P
36	23152	1	PUMP
37	06380068	1	MOUNT, TANK, HYDRO
38	21631	4	CAPSCREW, 3/8" X 1-1/4" NC, GR8
39	21658	1	CAPSCREW, 7/16" X 2" NF, GR8
40	34848"	""3	"""HEX NUT, 7/16" NF, GR8

TRACTOR MOUNT KIT - HYDRAULICS



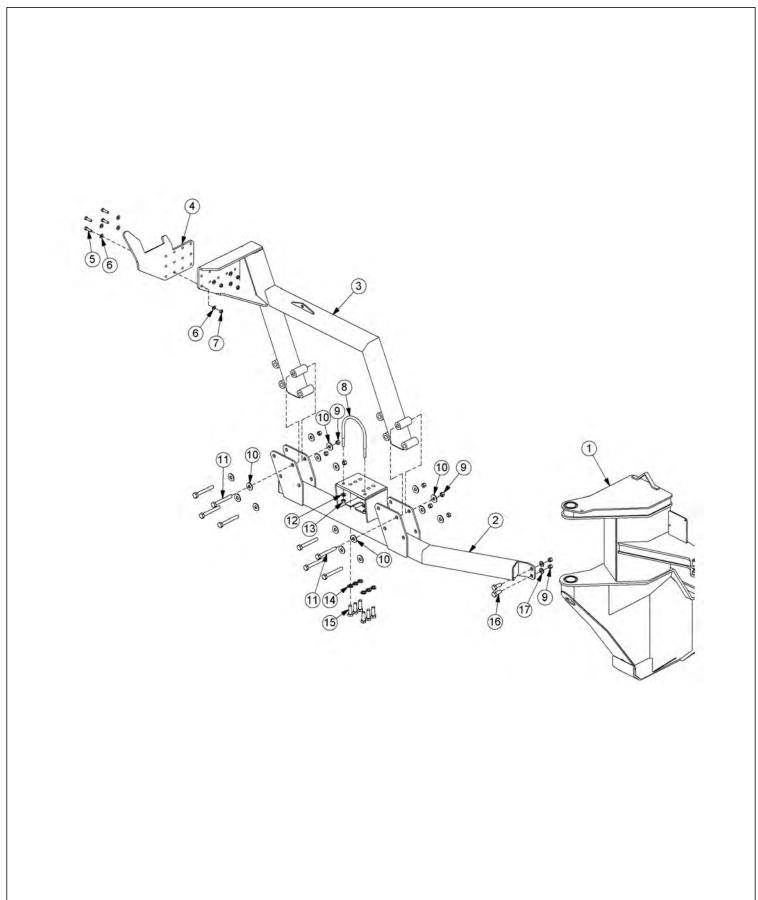
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MAIN FRAME *REFER TO TRACTOR MOUNT KIT
2		-	HYDRAULIC TANK *REFER TO TRACTOR MOUNT KIT
4	06503084	1	ELBOW,1-1/2"FOR X 1-1/2"FOR
5	06503083	1	ADAPTER,1-1/2"MOR X 1-1/2"MOR
6	34309	1	BALL VALVE,1-1/2"FOR
7	34710	1	ADAPTER,1-1/2"MOR X 1-1/2"MJ
8	32382	4	BRACKET,HOSE
9	27281	2	CAPSCREW,20MMM X 60MM,2.5P
10	33880	4	FLATWASHER,3/4",SAE
11	30708	4	CAPSCREW,20MM X 90MM,2.5P
12	24849	4	SPACER
13	06500692	1	HOSE,1-1/2" X 110"
14	TF4852	2	KIT,FLANGE
16	23152	1	PUMP
17	06500549	1	HOSE,1" X 87"
18	06505017	2	CLAMP KIT,1"
19	34626	2	BRACKET,CLAMP
20	06510084	1	BRAKE VALVE
21	06506012	2	U-TUBE, PREFORMED
23	33555	4	ADAPTER,1"MB X 1"MJ
24		1	HOSE (RETURN)*REFER TO BOOM ASSEMBLY
25		1	HOSE (PRESSURE)*REFER TO BOOM ASSEMBLY
27	06500826	1	HOSE,1" X 188"
28	34064	1	ADAPTER,1-1/4"MOR X 1"MJ



BOOM MOUNT KIT

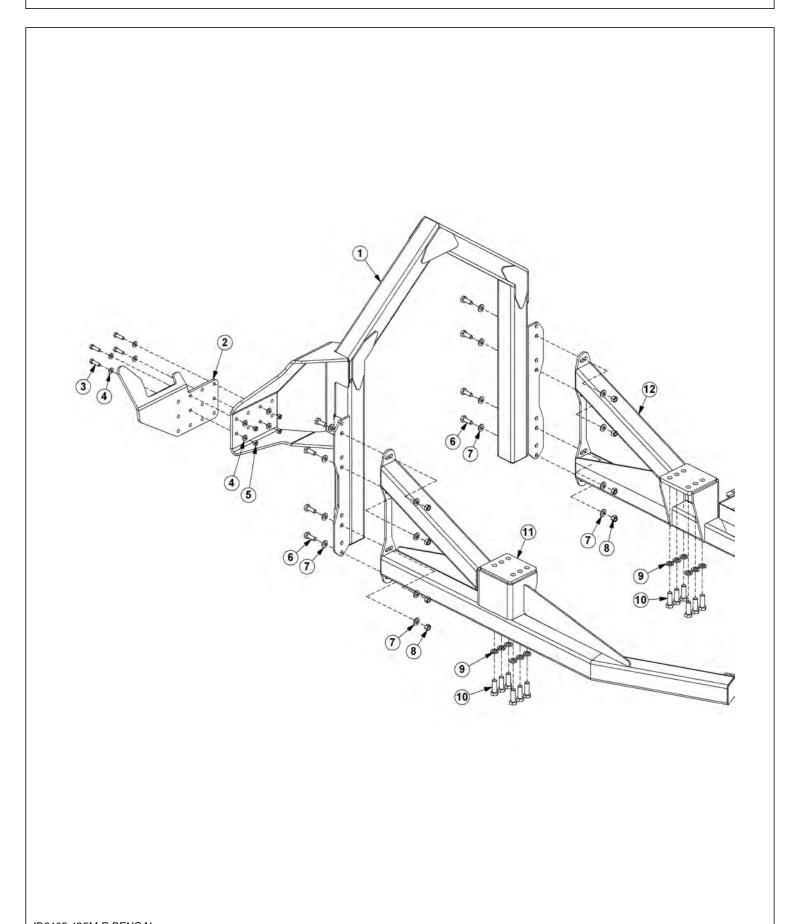
1 MAINFRAME *REFER TO TRACTOR MOUNT K 2 21782 1 CAPSCREW,5/8" X 1-3/4",NC 3 21777 1 NYLOCK NUT,5/8",NC 4 32381 1 PIN,CAPPED 5 32322 2 BUSHING 6 06505188 1 CLAMP KIT	
3 21777 1 NYLOCK NUT,5/8",NC 4 32381 1 PIN,CAPPED 5 32322 2 BUSHING	KIT
4 32381 1 PIN,CAPPED 5 32322 2 BUSHING	
5 32322 2 BUSHING	
6 06505188 1 CLAMP KIT	
7 6T3211 2 GREASE ZERK,1/8"NPT	
8 21677 3 NYLOCK NUT,7/16",NC	
9 32380 2 PIN,1"	
10 21683 2 CAPSCREW,7/16" X 2",NC	
11 TB1023 2 ROLL PIN	
12 06420100 1 PIN,1-1/4"	
13 SPHERICAL BEARING *NOT FOR SALE	
14 06700221 1 SWIVEL ASSEMBLY	
06310190 1 SWIVEL WELDMENT	
15 06520250 1 BEARING,WASHER	
16328102ADAPTER,ELBOW	
17 06501029 1 CYLINDER,3" X 13.88"	
18 06420022 1 PIN, 1/5" X 12"	
19 21688 1 CAPSCREW, 7/16" X 3-1/4"	

BOOMREST - SINGLE COLUMN



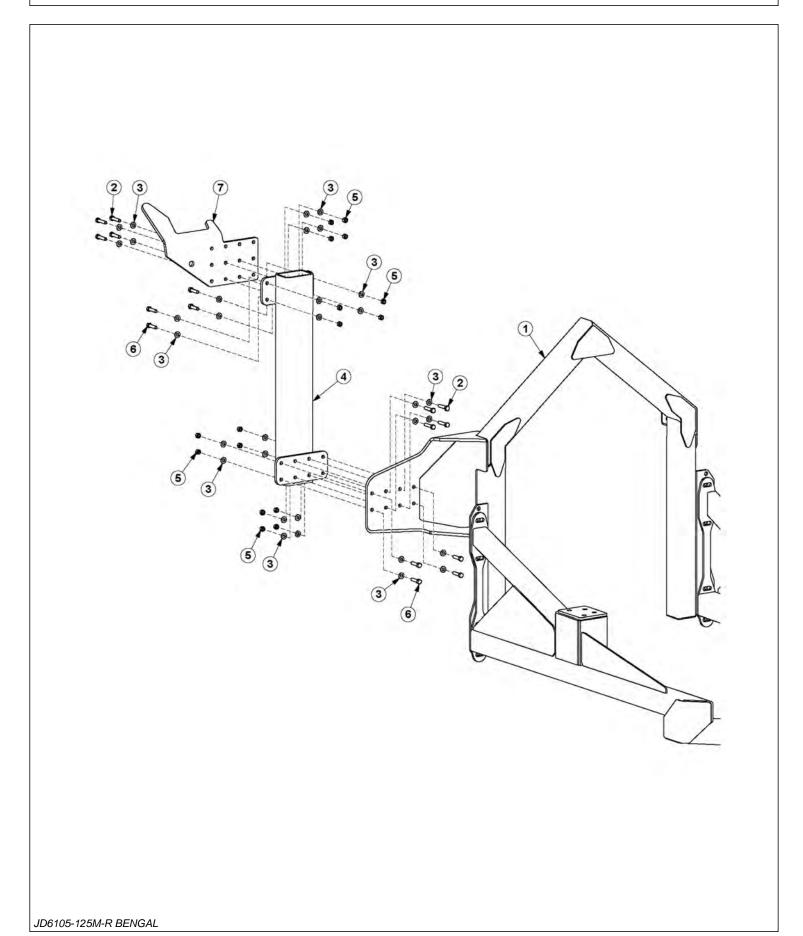
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MNFRM *REFER TO TRACTOR MOUNT KIT PAGE
2	06300131	1	AXLE BRACE,SC
3	06310074	1	BOOMREST,SINGLE COLUMN
4	06411166	1	SADDLE, T4 BENGAL
5	21732	4	CAPSCREW,1/2" X 1-3/4",NC
6	06533004	8	FLATWASHER,1/2",SAE,GR8
7	21725	4	HEX NUT,1/2",NC
8	06420127	1	U-BOLT,5/8"
9	21825	10	HEX NUT,1/2",NC
10	22021	16	FLATWASHER,3/4"
11	21843	8	CAPSCREW,3/4" X 6",NC
12	33764	2	FLATWASHER,5/8",GR8,SAE
13	6T2408	2	HEX NUT,5/8",NF,GR8
14	24881	6	LOCKWASHER,20MM
15	27281	6	CAPSCREW,20MM X 60MM,2.5P
16	21832	2	CAPSCREW,3/4" X 2",NC
17	33880	2	FLATWASHER,3/4",GR8,SAE

BOOMREST - OPEN STOW



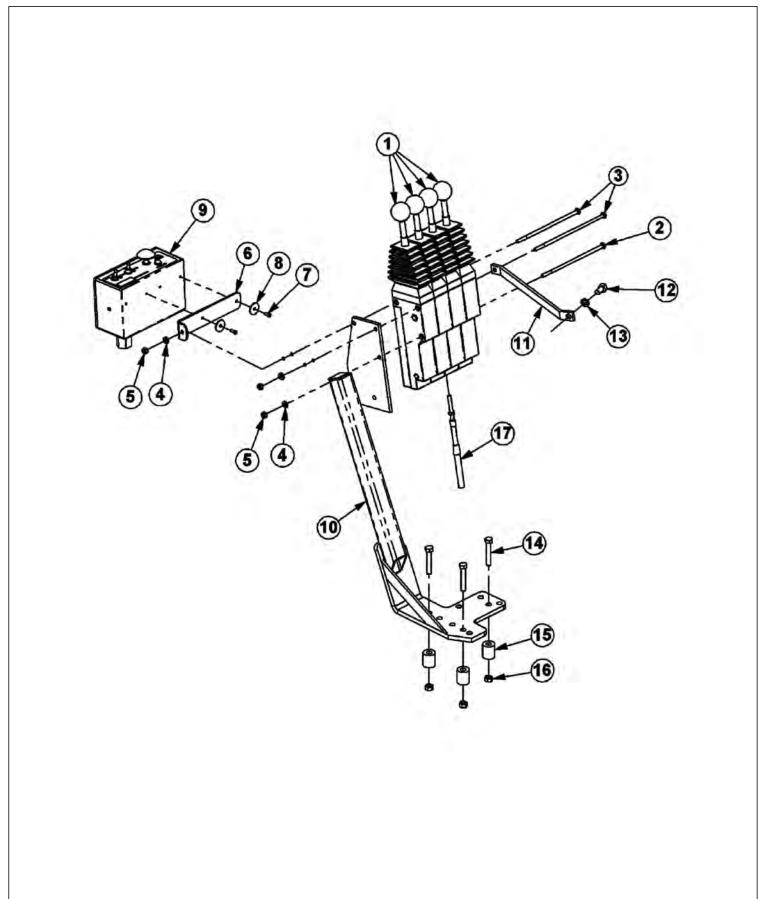
IT	ΈМ	PART NO.	QTY.	DESCRIPTION
1		06310155	1	BOOMREST, OS
2		06411166	1	SADDLE, T4 BENGAL
3		21732	4	CAPSCREW,1/2" X 1-3/4",NC
4		06533004	8	FLATWASHER,1/2",SAE
5		21725	4	HEX NUT,1/2",NC
6		21782	8	CAPSCREW,5/8" X 1-3/4",NC
7		33764	16	FLATWASHER,5/8",SAE
8		21775	8	HEX NUT,5/8",NC
9		24881	12	LOCKWASHER,20MM
10		27281	12	CAPSCREW,20MM X 60MM,2.5P
11		06300019	1	AXLE BRACE,RH
12		06300256	1	AXLE BRACE,LH

ELEVATED BOOMREST ADAPTER



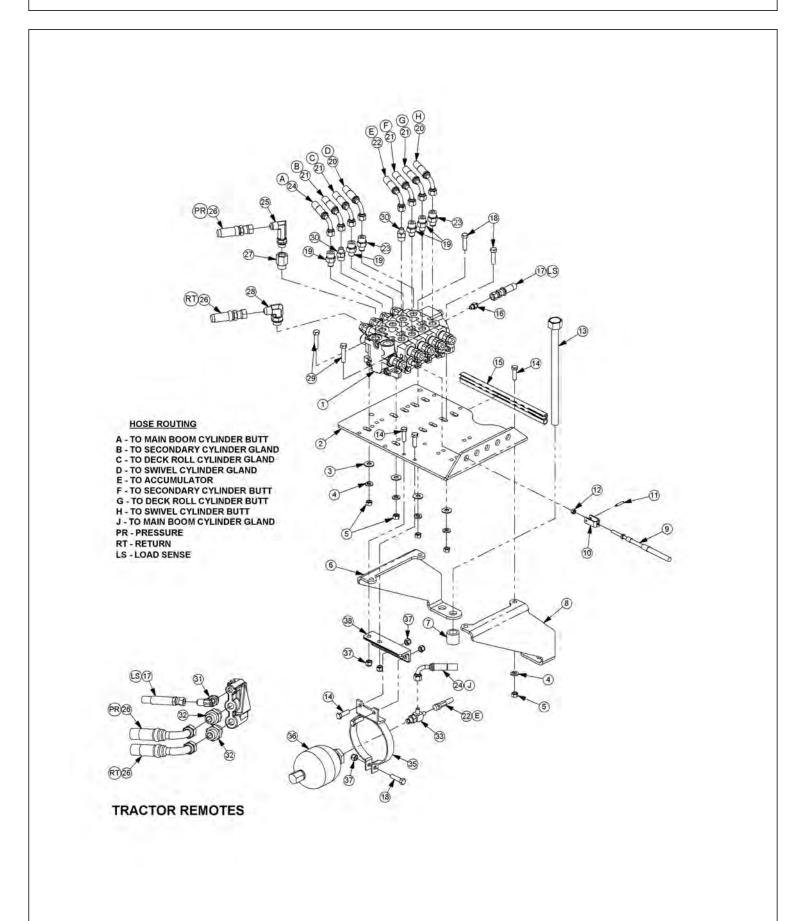
ITEM	PART NO.	QTY.	DESCRIPTION
1	06310157	1	*REFER TO TRACTOR MOUNT PAGE*
2	21734	8	CAPSCREW, 1/2" X 2 1/4",NC
3	06533004	16	FLATWASHER, 1/2"
4	06310148	1	ADPTR,BMRST,T4,OS,TRF
5	21725	16	HEX NUT, 1/2",NC
6	21733	8	CAPSCREW, 1/2" X 2",NC
7	06411166	1	SADDLE,T4,BENGAL

4 SPOOL CABLE CONTROL MOUNT



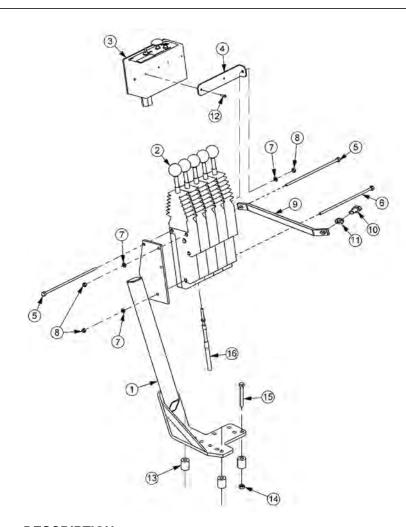
ITEM	PART NO.	QTY.	DESCRIPTION
1	6T1251	4	CBL CTRL BOX,180 DEG
2	21546	1	CAPSCREW,1/4" X 7",NC
3	21547	2	CAPSCREW,1/4" X 8",NC
4	21986	3	LOCKWASHER,1/4"
5	21525	3	HEX NUT,1/4",NC
6	34496	1	BRKT,SWITCHBOX,UNI
7	6T3951	2	SCREW, MACHINE, 8/32 X 1/2"
8	32360	2	LOCKWASHER,#8
9	06510100	1	SWITCHBOX,BOOM,GND
10	23865B	1	CBL CTRL MT BRKT
11	30750A	1	BRKT,CBL,CTRL,JD6000
12	33534	1	CAPSCREW,10MM X 20MM,1.5P
13	32691	1	LOCKWASHER,10MM
14	21636	3	CAPSCREW,3/8" X 2-1/2",NC
15	27082B	3	SPACER
16	21627	3	NYLOCK NUT,3/8",NC
17	34623	4	CBL,CNTRL,122"

CABLE (MANUAL) LIFT VALVE - 4 SPOOL

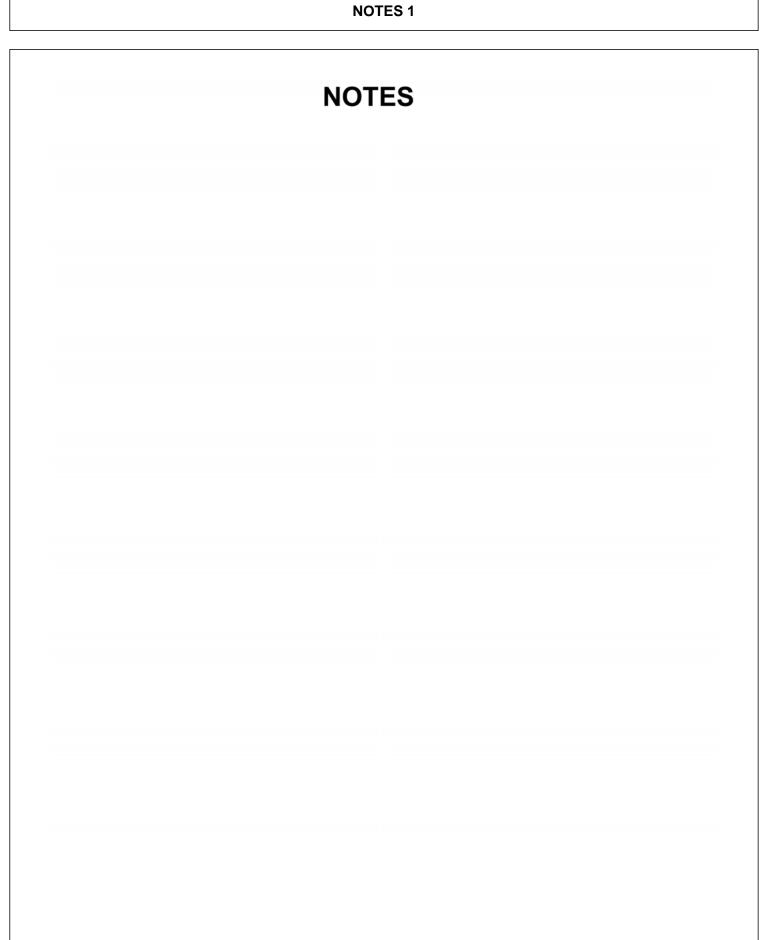


ITEM	PART NO.	QTY.	DESCRIPTION
1	06502057	1	VALVE,CABLE,4 SPOOL (FLAIL)
	06502093	1	VALVE,CABLE,4 SPOOL (ROTARY)
2	34622	1	PLATE, VALVE, REAR MNT
3	22016	4	FLATWASHER,3/8"
4	21988	8	LOCKWASHER,3/8"
5	21625	8	HEX NUT,3/8",NC
6	06410430	1	MOUNT, VALVE, LEFT
7	34519	4	SPACER,1-1/4" X 13/16" X 1-1/8"
8	06410429	1	MOUNT, VALVE, RIGHT
9	06505100	4	CBL,CNTRL,108"
10	6T4411	4	CLEVIS,CBL CTRL,3/16"
11	6T3017	4	ROLLPIN,3/16" X 1"
12	21500	4	HEX NUT,1/4",NF
13	06530514	4	CAPSCREW,18MM X 290MM,2.5P
14	21631	8	CAPSCREW,3/8" X 1-1/4",NC
15	28053	1	TRM LK,9/16X1/8FN PBL*100-1/8
16	32901	1	ADAPTER,3/8"MOR X 3/8"MJ
17	06500350	1	HOSE,1/4" X 26"
18	21632	2	CAPSCREW,3/8" X 1-1/2",NC
19	33271	4	ADAPTER,1/2"MOR X 3/8"MJ
20	06500697	2	HOSE,1/4" X 210"
21	06500687	4	HOSE,1/4" X 268"
22	33744	1	HOSE,1/4" X 34"
23	34396	2	ADAPTER,RSTRCT,.06"
24	06500688	2	HOSE,1/4" X 288"
25	33293	1	ELBOW,LONG
26	34612	2	HOSE,1/2" X 34"
27	32678	1	ADAPTER,5/8"MOR X 1/2"FOR
28	33383	1	ELBOW,5/8"MOR X 1/2"MJ
29	21633	2	CAPSCREW,3/8" X 1-3/4",NC
30	06502036	2	VLV,CHECK,W/.06" ORF,1/2"MOR
31	06503013	1	ELBOW,14MM MOR X 5/16"MJ
32	33463	2	ADAPTER,22MM MOR X 1/2"MJ
33	06503029	1	TEE,RUN
35	23888	1	BRKT,ACCUMULATER
36	24300	1	ACCUMULATER
37	21627	4	NYLOCK NUT,3/8",NC
38	06460072	1	BRKT
	06505035	1	VALVE COVER - NON CAB ONLY (NOT SHOWN)

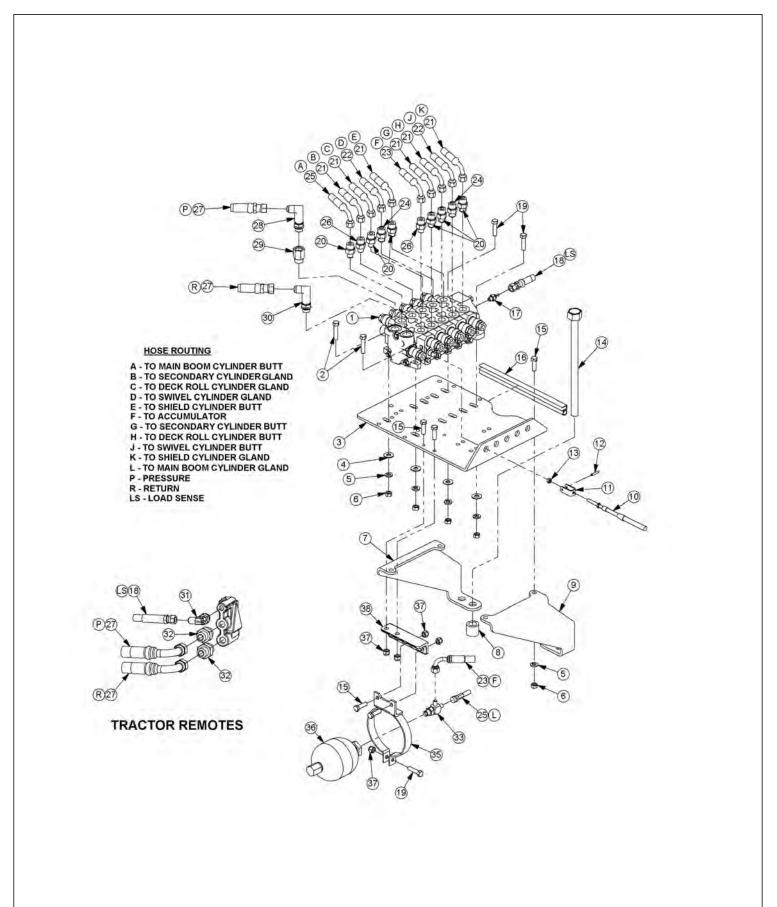
5 SPOOL CABLE CONTROL MOUNT



ITEM	PART NO.	QTY.	DESCRIPTION
1	23865B	1	CBL CTRL MT BRKT
2	6T1251	5	CBL CTRL BOX,180 DEG
3	06510100	1	SWITCHBOX,BOOM
4	34496	1	BRKT,SWITCHBOX,UNI
5	34332	2	CAPSCREW,1/4" X 9-1/4",NC
6	21548	1	CAPSCREW,1/4" X 9",NC
7	21986	3	LOCKWASHER,1/4"
8	21525	3	HEX NUT,1/4",NC
9	30750A	1	SUPPORT,MNT,CNTRL BOX
10	33534	1	CAPSCREW,10MM X 20MM,1.5P
11	32691	1	LOCKWASHER,10MM
12	6T3951	2	SCREW, MACHINE 8/32" X 1/2", NC
13	27082B	3	SPACER
14	21627	3	NYLOCK NUT,3/8",NC
15	21636	3	CAPSCREW,3/8" X 2-1/2",NC
16	06505100	5	CBL,CNTRL,108

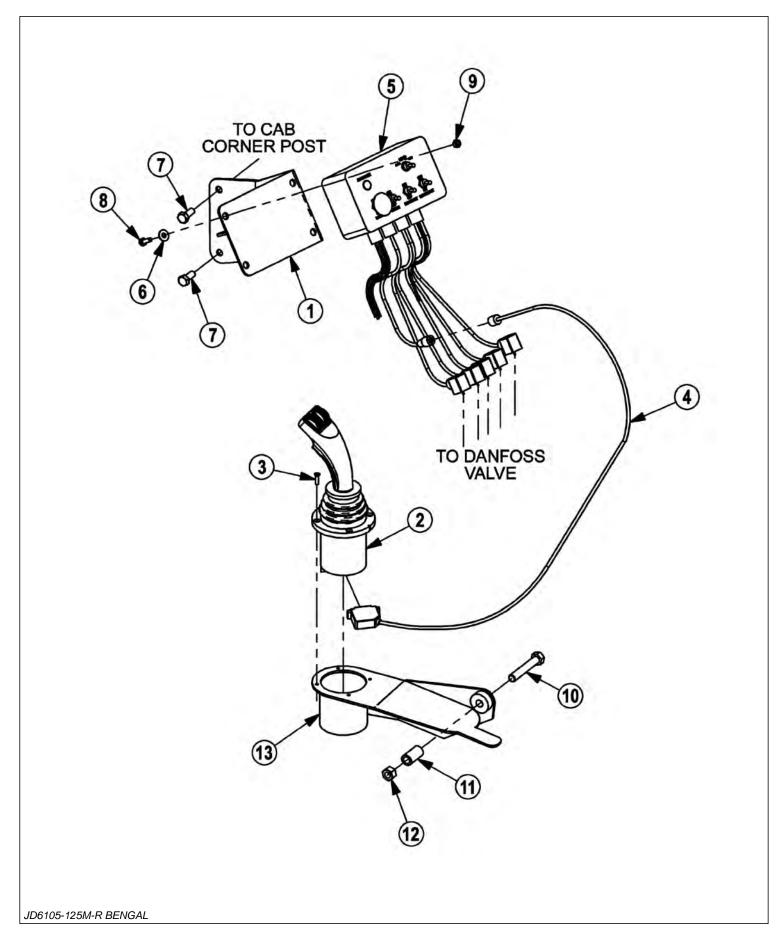


CABLE (MANUAL) LIFT VALVE - 5 SPOOL



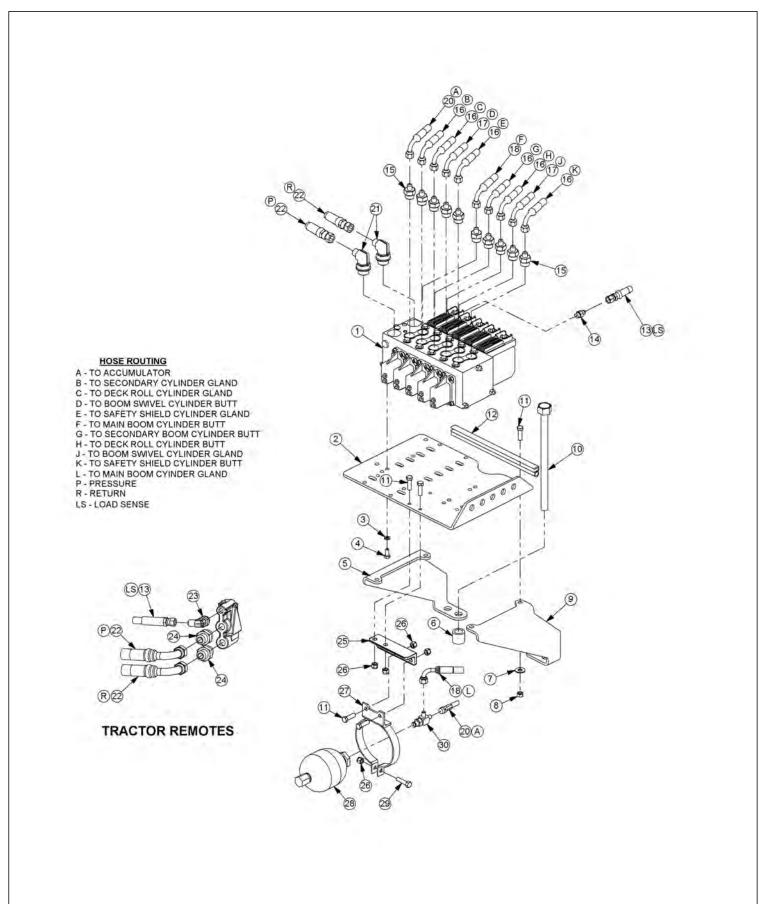
ITEM	PART NO.	QTY.	DESCRIPTION
1	06502038	1	VALVE,CABLE,5 SPOOL
2	21633	2	CAPSCREW,3/8" X 1-3/4",NC
3	34622	1	PLATE, VALVE, REAR MNT
4	22016	4	FLATWASHER,3/8"
5	21988	8	LOCKWASHER,3/8"
6	21625	8	HEX NUT,3/8",NC
7	06410430	1	MOUNT, VALVE, LEFT
8	34519	4	SPACER,1-1/4" X 13/16" X 1-1/8"
9	06410429	1	MOUNT, VALVE, RIGHT
10	06505100	5	CBL,CNTRL,108"
11	6T4411	5	CLEVIS,CBL CTRL,3/16"
12	6T3017	5	ROLLPIN,3/16" X 1"
13	21500	5	HEX NUT,1/4",NF
14	06530514	4	CAPSCREW,18MM X 290MM,2.5P
15	21631	8	CAPSCREW,3/8" X 1-1/4",NC
16	28053	1	TRM LK,9/16X1/8FN PBL*100-1/8
17	32901	1	ADAPTER,3/8"MOR X 3/8"MJ
18	06500350	1	HOSE,1/4" X 26"
19	21632	2	CAPSCREW,3/8" X 1-1/2",NC
20	33271	6	ADAPTER,1/2"MOR X 3/8"MJ
21	06500687	6	HOSE,1/4" X 268"
22	06500697	2	HOSE,1/4" X 210"
23	33744	1	HOSE,1/4" X 34"
24	34396	2	ADAPTER,RSTRCT,.06" OUT
25	06500688	2	HOSE,1/4" X 288"
26	06502036	2	VLV,CHECK,W/.06" ORF,1/2"MOR
27	34612	2	HOSE,1/2" X 34"
28	33293	1	ELBOW,LONG
29	32678	1	ADAPTER,5/8"MOR X 1/2"FOR
30	33383	1	ELBOW,LONG
31	06503013	1	ELBOW,14MM MOR X 5/16"MJ
32	33463	2	ADAPTER,22MM MOR X 1/2"MJ
33	06503029	1	TEE,RUN
35	23888	1	BRKT,ACCUMULATER
36	24300	1	ACCUMULATER
37	21627	4	NYLOCK NUT,3/8",NC
38	06460072	1	BRKT
	06505035	1	VALVE COVER - NON CAB ONLY (NOT SHOWN)

JOYSTICK AND SWITCH BOX MOUNT



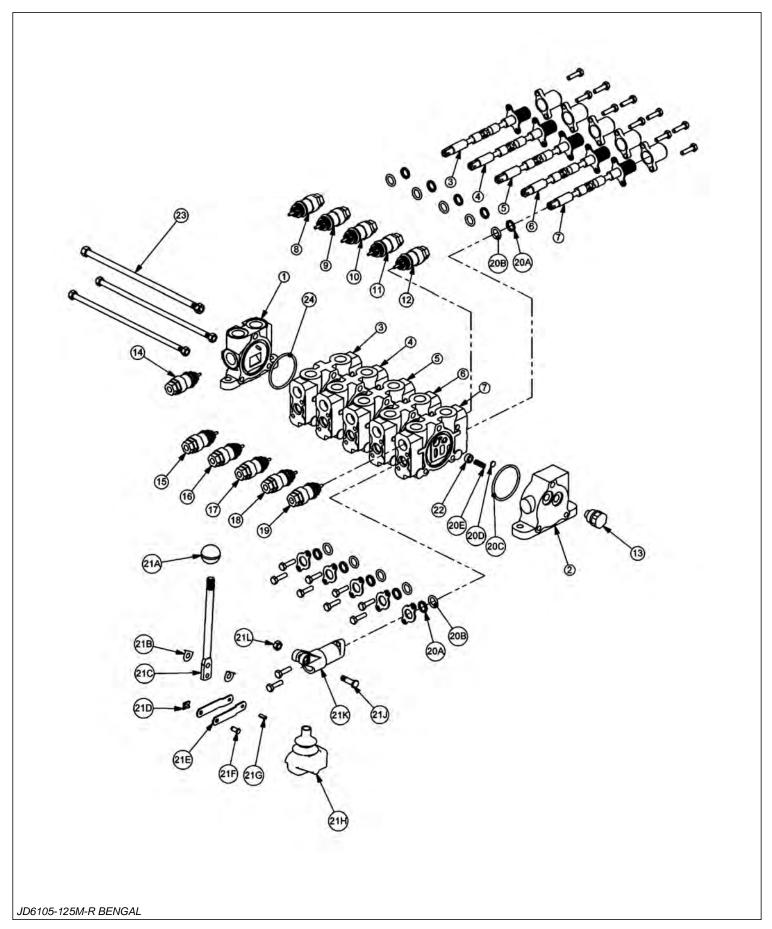
ITEM	PART NO.	QTY.	DESCRIPTION
1	33355	1	MNT,BRKT,SWITCH BOX
2	33691	1	JOYST,4AXIS,RH,DF
3	32829	4	SCREW, MACHINE, 10-32 X 3/4", FLTHD
4	33693	1	CBL,EXT,4FT,JOYST
5	06510196	1	SWITCH BOX
6	22014	4	FLATWASHER,1/4"
7	27513	2	CAPSCREW,10MM X 25MM,1.5P
8	21529	4	CAPSCREW,1/4" X 3/4",NC
9	21527	4	NYLOCK NUT,1/4",NC
10	21737	1	CAPSCREW,1/2" X 3",NC
11	33359	1	TUBE,SPACER
12	21727	1	NYLOCK NUT,1/2",NC
13	33356	1	ARMREST, JOYSTICK

ELECTRONIC PROPORTIONAL LIFT VALVE MOUNT



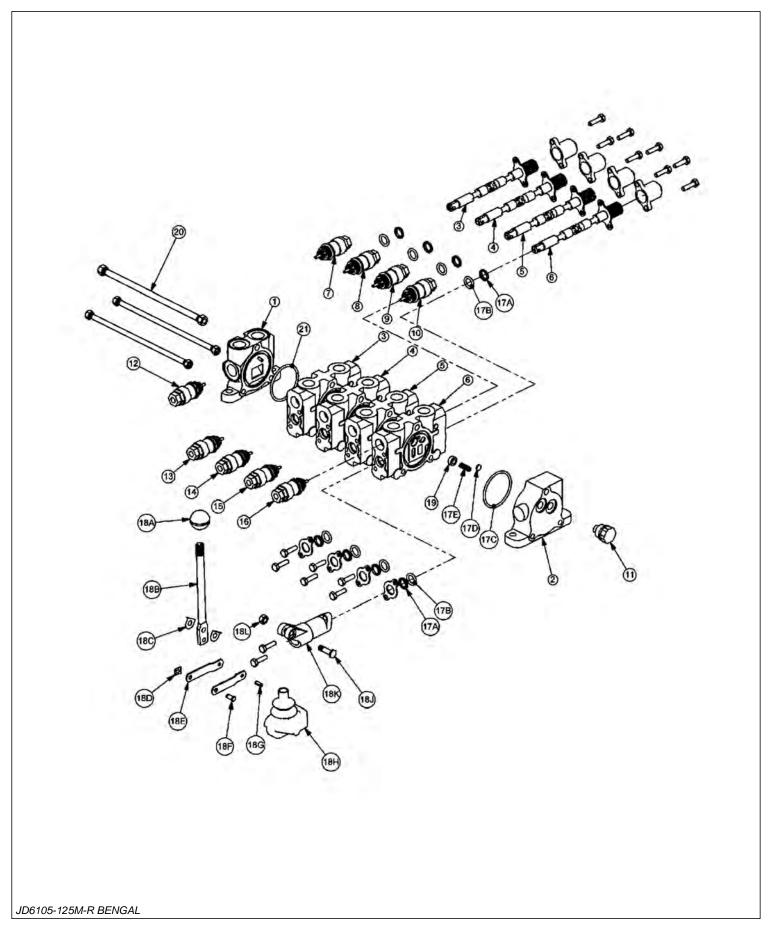
ITEM	PART NO.	QTY.	DESCRIPTION
1	06502097	1	ELECTRIC LIFT VALVE - 5 SPOOL
2	34622	1	PLATE, VALVE, REAR MNT
3	21987	4	LOCKWASHER,5/16"
4	21579	4	CAPSCREW,5/16" X 3/4",NC
5	06410430	1	MOUNT, VALVE, LEFT
6	34519	4	SPACER,1-1/4" X 13/16" X 1-1/8"
7	22016	4	FLATWASHER,3/8"
8	21625	4	HEX NUT,3/8",NC
9	06410429	1	MOUNT, VALVE, RIGHT
10	06530514	4	CAPSCREW,18MM X 290MM,2.5P
11	21631	4	CAPSCREW,3/8" X 1-1/4",NC
12	28053	1	TRM LK,9/16" X 1/8"FN PBL*100-1/8
13	06500400	1	HOSE,1/4" X 30"
14	33392	1	ADAPTER
15	32807	10	ADAPTER
16	06500687	6	HOSE,1/4" X 268"
17	06500697	2	HOSE,1/4" X 210"
18	06500688	2	HOSE,1/4" X 288"
20	33744	1	HOSE,1/4" X 34"
21	33294	2	ELBOW
22	34612	2	HOSE,1/2" X 34"
23	06503013	1	ELBOW,14MM MOR X 5/16"MJ
24	33463	2	ADAPTER,22MM MOR X 1/2"MJ
25	06460072	1	BRACKET
26	21627	5	NYLOCK NUT,3/8",NC
27	23888	1	BRKT,ACCUMULATER
28	24300	1	ACCUMULATER
29	21632	1	CAPSCREW,3/8" X 1-1/2",NC
30	06503029	1	TEE,RUN
	06505035	1	VALVE COVER - NON CAB ONLY (NOT SHOWN)

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502038



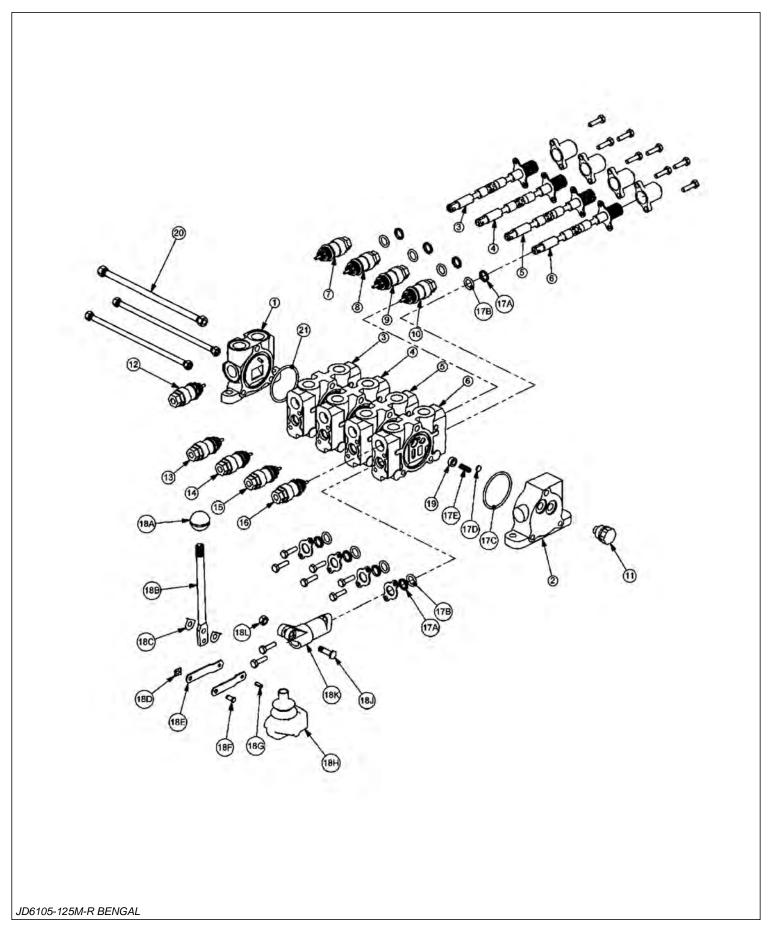
ITEM	PART NO.	QTY.	DESCRIPTION	
1	31595	1	INLET END COVER	
2	31594	1	END COVER, LOAD SENSE	
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)	
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)	
5	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)	
6	31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED)	
7	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING) (REMOVE SHUTTLE DISC)	
8	TF4212	1	RELIEF VALVE, 200 PSI	
9	TB1017K	1	RELIEF VALVE, 2150 PSI	
10	TB1017J	1	RELIEF VALVE, 1800 PSI	
11	06502089	1	RELIEF VALVE, 2400 PSI	
12	22588	1	RELIEF VALVE, 500 PSI	
13	06503068	1	#6 O-RING PLUG	
14	6T4209	1	#10 O-RING PLUG	
15	06502085	1	RELIEF VALVE, 3000 PSI	
16	TB1017F	1	RELIEF VALVE, 1500 PSI	
17	TB1017F	1	RELIEF VALVE, 1500 PSI	
18	06502120	1	RELIEF VALVE, 2100 PSI	
19	22588	1	RELIEF VALVE, 500 PSI	
20	31593	5	VALVE SEAL KIT (FOR ONE SECTION)	
20A		2	WIPER	
20B		2	O-RING SMALL	
20C		1	O-RING LARGE	
20D		1	SHUTTLE DISC	
20E		1	SPRING	
21	TB1017L	5	LEVER KIT (FOR ONE SECTION)	
21A		1	LEVER KNOB	
21B		1	LEVER	
21C		2	LEVER WASHER	
21D		1	LEVER CLIP	
21E		2	LINKAGE	
21F		1	LEVER PIN	
21G		1	ROLL PIN	
21H		1	LEVER BOOT	
21J		1	LEVER BOLT	
21K		1	LEVER DUST COVER	
21L		1	LEVER NUT	
22	31603	5	COMPENSATOR	
23	TB1017V	1	TIE ROD KIT	
24	24214	1	O-RING, LARGE	
1				

CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502057

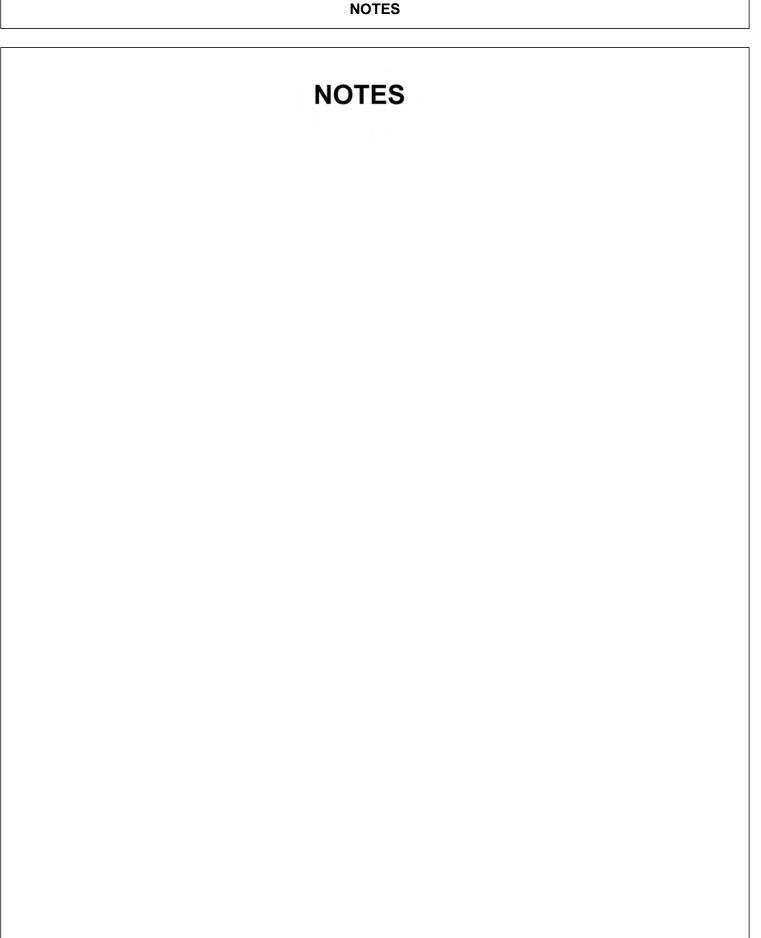


ITEM	PART NO.	QTY.	DESCRIPTION	
1	31595	1	INLET END COVER	
2	31594	1	END COVER, LOAD SENSE	
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)	
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)	
5	31600	1	VALVE SECTION (DOUBLE ACTING, DETENT - FLOAT)	
6	31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED) (REMOVE SHUTTLE DISC)	
7	TF4212	1	RELIEF VALVE, 200 PSI	
8	TB1017K	1	RELIEF VALVE, 2150 PSI	
9	TB1017J	1	RELIEF VALVE, 1800 PSI	
10	6502089	1	RELIEF VALVE, 2400 PSI	
11	6503068	1	#6 O-RING PLUG	
12	6T4209	1	#10 O-RING PLUG	
13	6502085	1	RELIEF VALVE, 3000 PSI	
14	TB1017F	1	RELIEF VALVE, 1500 PSI	
15	TB1017F	1	RELIEF VALVE, 1500 PSI	
16	6T3908	1	RELIEF VALVE, 2100 PSI	
17	31593	4	VALVE SEAL KIT (FOR ONE SECTION)	
17A		2	WIPER	
17B		2	O-RING SMALL	
17C		1	O-RING LARGE	
17D		1	SHUTTLE DISC	
17E		1	SPRING	
18	TB1017L	4	LEVER KIT (FOR ONE SECTION)	
18A		1	LEVER KNOB	
18B		1	LEVER	
18C		2	LEVER WASHER	
18D		1	LEVER CLIP	
18E		2	LINKAGE	
18F		1	LEVER PIN	
18G		1	ROLL PIN	
18H		1	LEVER BOOT	
18J		1	LEVER BOLT	
18K		1	LEVER DUST COVER	
18L		1	LEVER NUT	
19	31603	4	COMPENSATOR	
20	TB1017U	1	TIE ROD KIT	
21	24214	1	O-RING, LARGE	

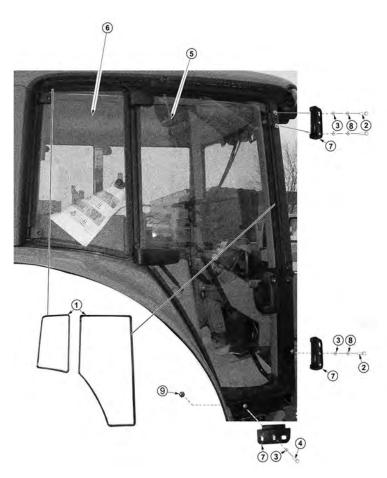
CABLE (MANUAL) LIFT VALVE BREAKDOWN - 06502093



ITEM	PART NO.	QTY.	DESCRIPTION	
1	31595	1	INLET END COVER	
2	31594	1	END COVER, LOAD SENSE	
3	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)	
4	31597	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)	
5	31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING)	
6	31598	1	VALVE SECTION (DOUBLE ACTING, CENTER SPRING, METERED) (REMOVE SHUTTLE DISC)	
7	TF4212	1	RELIEF VALVE, 200 PSI	
8	TB1017K	1	RELIEF VALVE, 2150 PSI	
9	TB1017J	1	RELIEF VALVE, 1800 PSI	
10	06502089	1	RELIEF VALVE, 2400 PSI	
11	06503068	1	#6 O-RING PLUG	
12	6T4209	1	#10 O-RING PLUG	
13	06502085	1	RELIEF VALVE, 3000 PSI	
14	TB1017F	1	RELIEF VALVE, 1500 PSI	
15	TB1017F	1	RELIEF VALVE, 1500 PSI	
16	6T3908	1	RELIEF VALVE, 2100 PSI	
17	31593	4	VALVE SEAL KIT (FOR ONE SECTION)	
17A		2	WIPER	
17B		2	O-RING SMALL	
17C		1	O-RING LARGE	
17D		1	SHUTTLE DISC	
17E		1	SPRING	
18	TB1017L	4	LEVER KIT (FOR ONE SECTION)	
18A		1	LEVER KNOB	
18B		1	LEVER	
18C		2	LEVER WASHER	
18D		1	LEVER CLIP	
18E		2	LINKAGE	
18F		1	LEVER PIN	
18G		1	ROLL PIN	
18H		1	LEVER BOOT	
18J		1	LEVER BOLT	
18K		1	LEVER DUST COVER	
18L		1	LEVER NUT	
19	31603	4	COMPENSATOR	
20	TB1017U	1	TIE ROD KIT	
21	24214	1	O-RING, LARGE	

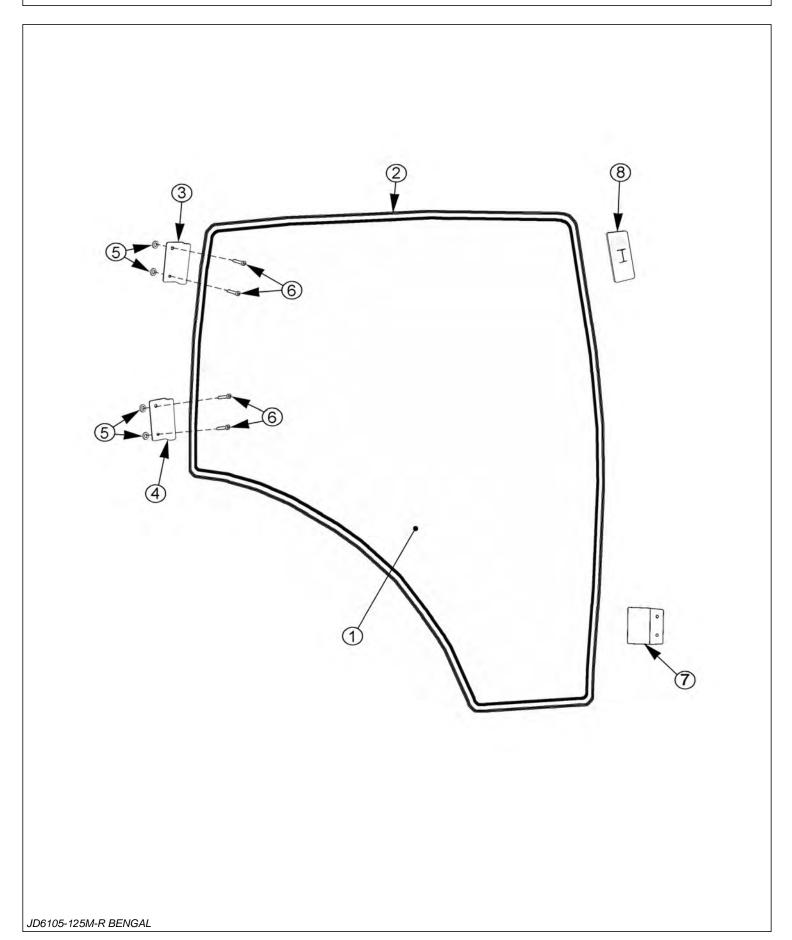


POLYCARBONATE SAFETY WINDOW



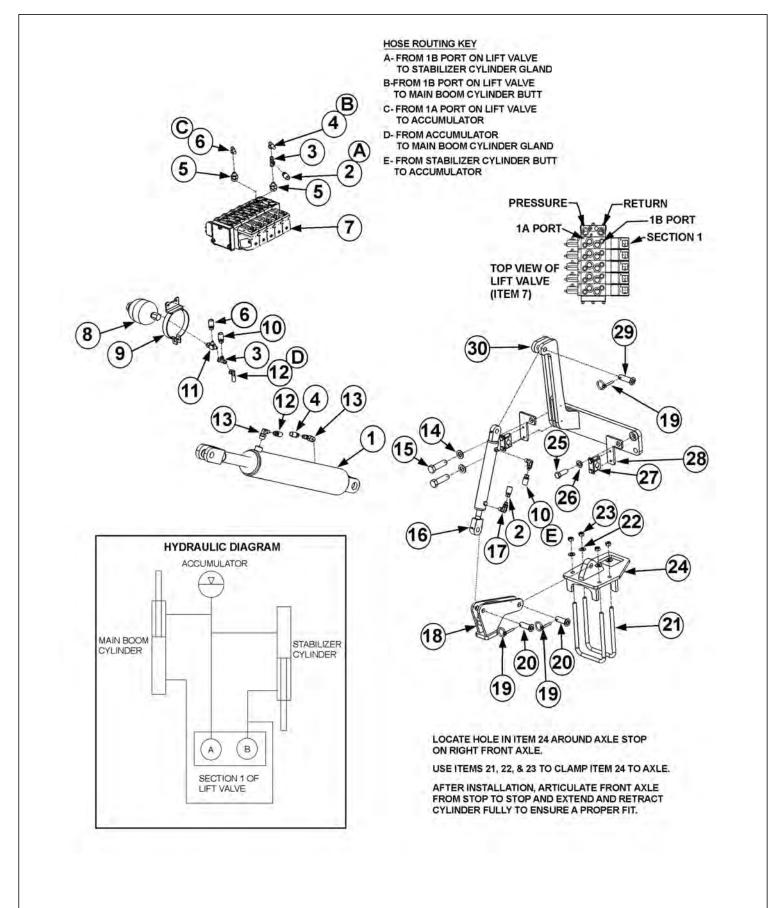
ITEN	I PART NO	. QTY.	DESCRIPTION
1	31965	22	TRIM SEAL,3/8" CLIP X 3/4"OD (FEET)
2	27508	3	CAPSCREW,8MM X 20MM,1.25P
3	22015	4	FLATWASHER,5/16"
4	21581	1	CAPSCREW,5/16" X 1-1/4",NC
5	06490005	1	POLYCARB,FRMD,DOOR,RH
6	06490027	1	POLYCARB,FRMD,REAR,RH
7	06520040	3	BRKT, JD, POLY, RETAIN
8	6T2619	3	LOCKWASHER,8MM
9	21577	1	NYLOCK NUT,5/16",NC

PANORAMIC SAFETY WINDOW



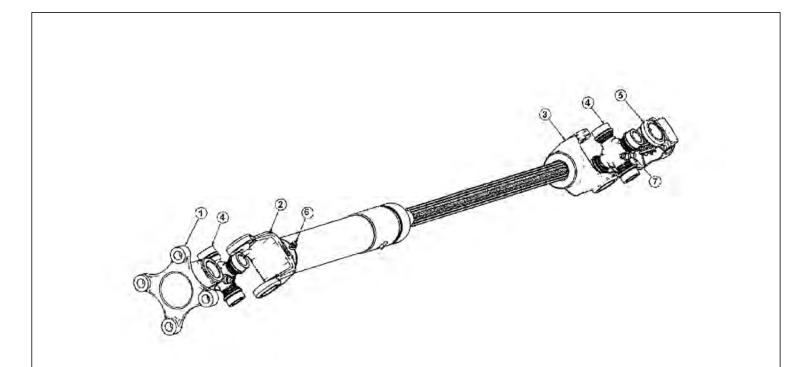
ITEM	PART NO.	QTY.	DESCRIPTION
1	06490005	1	POLYCARB,FRMD,DOOR,RH
2	31965	22	TRIM SEAL,3/8" CLIP X 3/4"OD (FEET)
	06537005	1	ADHESIVE *NOT SHOWN
3	06330042	1	BRKT,SFTY SCRN,UPPER
4	06330041	1	BRKT,SFTY SCRN,LOWER
5	06402170	4	SPACER,1" X 5/8" X 3/16"
6	19M7561	4	SCREW *EXISTING
7	L209050	1	BRACKET *EXISTING
8	L209049	1	BRACKET *EXISTING

FRONT AXLE STABILIZER OPTION

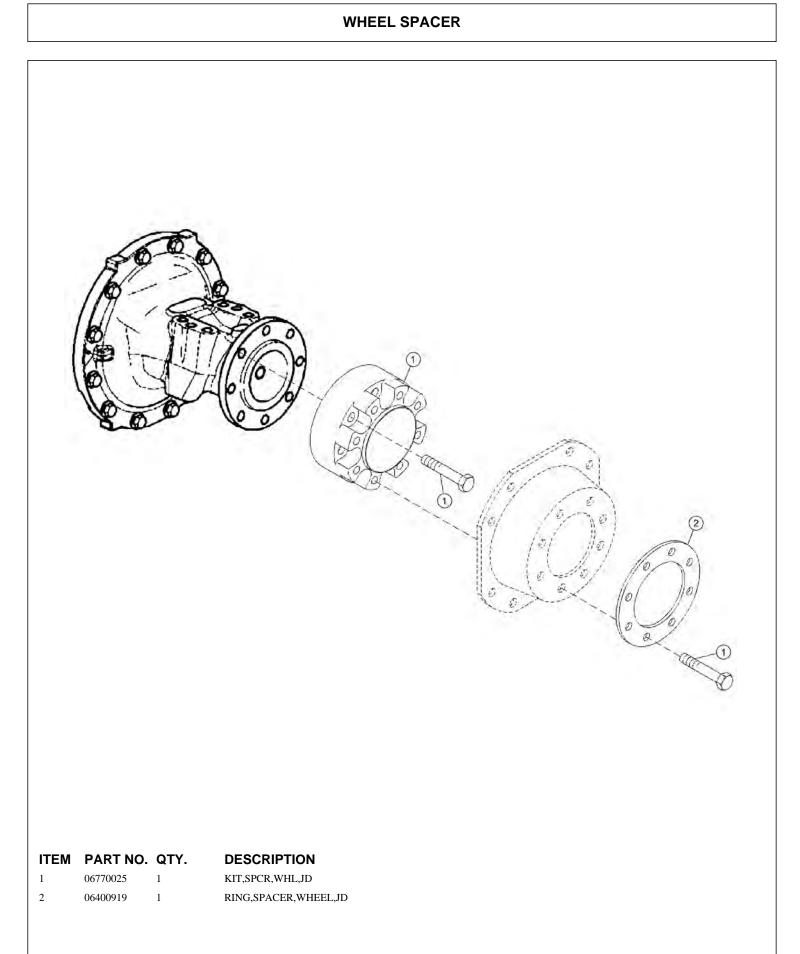


ITEM	PART NO.	QTY.	DESCRIPTION
1		-	BOOM CYLINDER *REFER TO COMMON SECTION
2	06500149	1	HOSE,1/4" X 220"
3	06503048	2	RUN TEE,3/8"MJ X 3/8"FJX X 3/8"MJ
4		-	HOSE *REFER TO LIFT VALVE PAGE
5		-	ADAPTER *REFER TO LIFT VALVE PAGE
6		-	HOSE *REFER TO LIFT VALVE PAGE
7		-	LIFT VALVE *REFER TO LIFT VALVE PAGE
8		-	ACCUMULATOR *REFER TO LIFT VALVE PAGE
9		-	ACCUMULATOR BRKT *REFER TO LIFT VALVE PAGE
10	06500149	1	HOSE,1/4" X 220"
11		-	RUN TEE *REFER TO LIFT VALVE PAGE
12		-	HOSE *REFER TO LIFT VALVE PAGE
13		-	ELBOW *REFER TO LIFT VALVE PAGE
14	33880	2	FLATWASHER,3/4",SAE
15	32703	2	CAPSCREW,20MM X 100MM,2.5P
16	33785	1	CYLINDER,1-1/2" X 8"
17	06503055	2	ELBOW,1/4"MOR X 3/8"MJ
18	06310132	1	LINK, PIVOT, STABILIZER
19	RD1032	3	LYNCH PIN
20	33984	2	PIN,3/4" X 2-7/16"
21	06420140	2	U-BOLT
22	06533004	4	FLATWASHER,1/2",SAE
23	21700	4	HEX NUT,1/2",UNC
24	06310176	1	MOUNT,AXLE
25		-	CAPSCREW *REFER TO LIFT VALVE PAGE
26		-	FLATWASHER *REFER TO LIFT VALVE PAGE
27		-	CLAMP KIT *REFER TO LIFT VALVE PAGE
28		-	BRACKET *REFER TO LIFT VALVE PAGE
29	34799	1	PIN,3/4" X 2-15/16"
30	06310177	1	STABILIZER,AXLE,CYL MNT

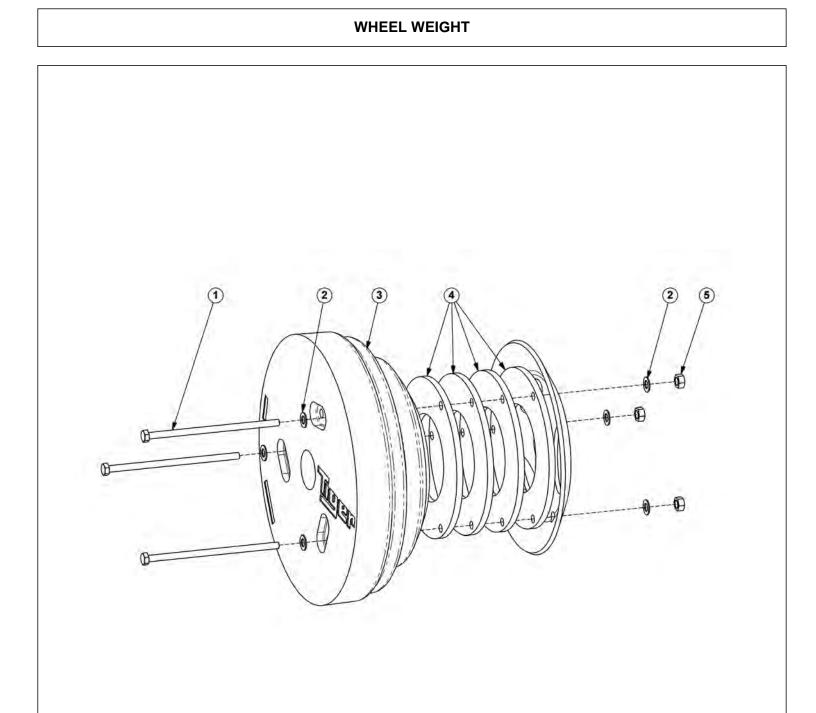
PUMP DRIVESHAFT BREAKDOWN



ITEM	PART NO.	QTY.	DESCRIPTION
	34999	1	DRIVESHAFT,U-JOINT,ASSY
1	06505004	1	YOKE PULLEY
2	06505005	1	SLEEVE
3	06505006	1	SHAFT
4	06505007	2	CROSS
5	06505008	1	YOKE DRIVE
6	6T3203	1	GREASE ZERK,1/4" X 45
7	6T3207	3	GREASE ZERK,1/4" X STR



JD6105-125M-R BENGAL



ITEM	PART NO.	QTY.	DESCRIPTION
1	06530213	3	CAPSCREW, 7/8" X 16", NC, GR8
2	06533000	6	FLATWASHER, 7/8", GR8
3	32517	1	WHEEL WEIGHT, 1700#
4	06400410	4	SPACER
5	06531000	3	HEX NUT, 7/8", NC, GR8

JD6105-125M-R BENGAL

PARTS SECTION

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PARTS ORDERING GUIDE

The following instructions are offered to help eliminate needless delay and error in processing purchase orders for the equipment in this manual.

1. The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.

2. The Purchase Order must indicate the Name and Address of the person or organization ordering the parts, who should be charged, and if possible, the serial number of the machine for which the parts are being ordered.

3. The purchase order must clearly list the quantity of each part, the complete and correct part number, and the basic name of the part.

4. The manufacturer reserves the right to substitute parts where applicable.

5. Some parts may be unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a purchase order.

6. The manufacturer reserves the right to change prices without prior notice.

NOTE: When ordering replacement decals, refer to the part numbers and descriptions listed in the safety section in the front of this manual.

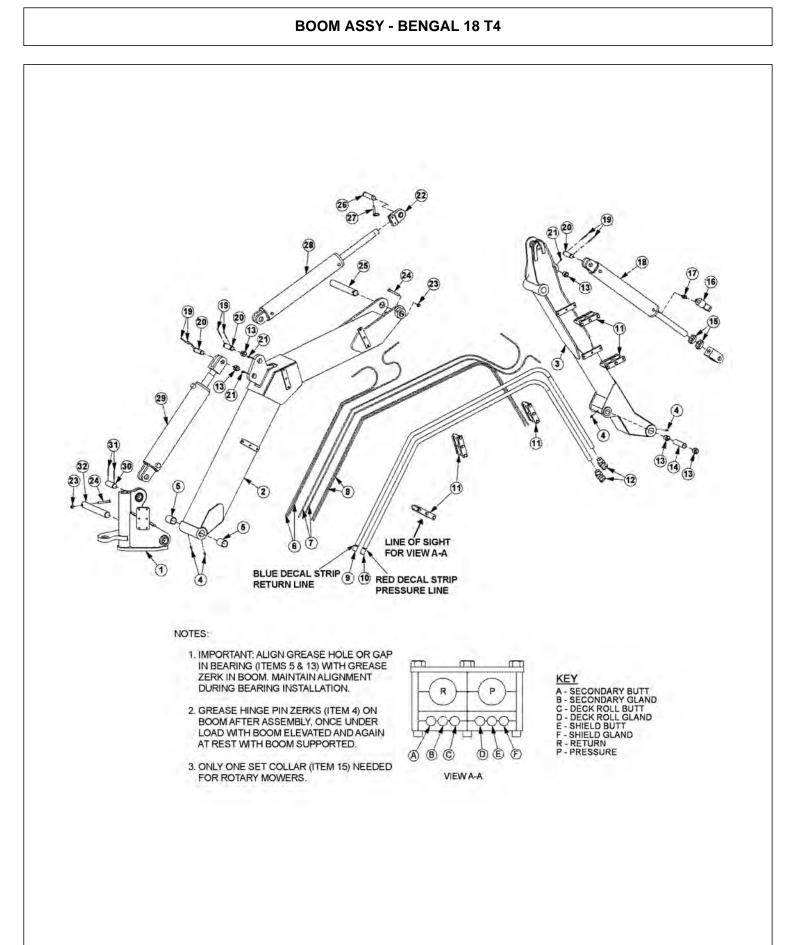


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

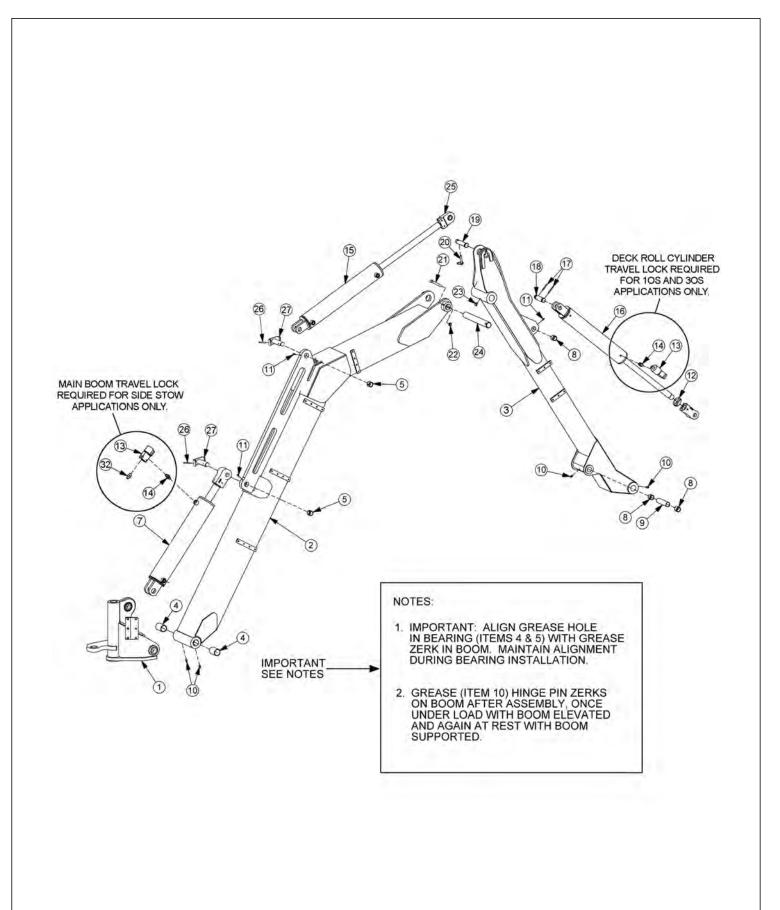
Tiger Corporation

3301 N. Louise Ave. Sioux Falls, SD 57107 1-800-843-6849 1-605-336-7900



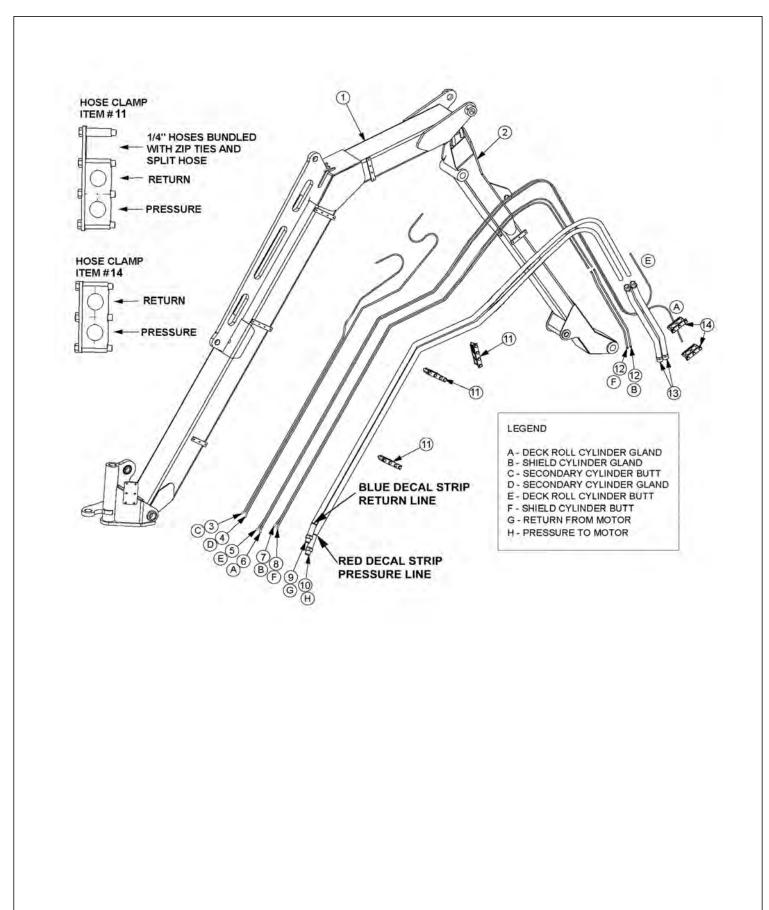
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	REAR STOW SWIVEL ASSY
2	06700167	-	MAIN BOOM ASSY
	06310111	1	MAIN BOOM WELDMENT
3	06700168	-	SECONDARY BOOM ASSY
	06310112	1	SECONDARY BOOM WELDMENT
4	6T3211	4	GREASE ZERK,1/8"
5	32321	2	BEARING, DX, 1-1/2" X 2"
6	06500499	2	HOSE,1/4" X 50"
7	06500500	2	HOSE,1/4" X 108"
8	06500502	2	HOSE,1/4" X 100"
9	06500713	1	HOSE,1" X 163"
10	06500714	1	HOSE,1" X 162"
11	06505116	2	CLAMP KIT
12	24724	2	SWIVEL,1MJ X 1FJX45
13	TB3010	3	BUSHING
14	TB1035	1	BUSHING,SPACER
15	35312	1	SET COLLAR
16	06510050	1	TRAVEL LOCK, METRIPACK COIL
17	31329	1	ADAPTER,1/2ORB X 1/2ORB ADJ
18	06501023	1	DECK ROLL CYLINDER,3" X 18"
19	06537021	6	ROLL PIN,5MM
20	TB1033	4	PIN,1"
21	6T3207	4	GREASE ZERK,1/4"
22	TB3033	1	CLEVIS WITH SPHERICAL BEARING
23	21677	2	NYLOCK NUT,7/16",NC
24	21688	2	CAPSCREW,7/16" X 3-1/4",NC
25	TB1025	1	PIN,1-1/2"
26	TB1036	1	PIN,1"
27	TF1143	1	PIN,LYNCH
28	06501024	1	SECONDARY CYLINDER, 3-1/2" X 20"
29	06501022	1	MAIN CYLINDER,4" X 20"
30	06420100	1	PIN,1-1/4"
31	TB1023	2	ROLL PIN,7/32"
32	TB3013C	1	PIN,1-1/2"

BOOM ASSY BENGAL STANDARD 22 T4



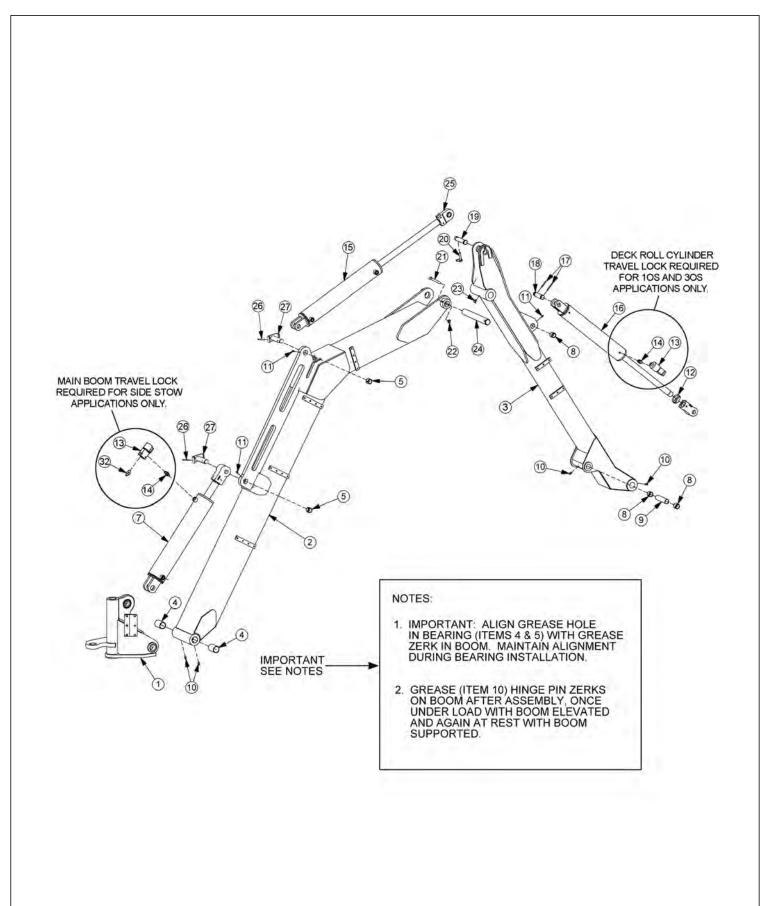
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT
2	06700189	1	MAIN BOOM, T4
3	24517	1	SECONDARY BOOM ARM ASSY
4	32321	2	BEARING, DX, 1-1/2" X 2"
5	TB1044	2	BUSHING, 1-1/4"ID
7	06501020	1	CYLINDER, 5" X 20"
8	TB3010	3	BUSHING, 1"ID
9	TB1035	1	BUSHING,SPACER
10	6T3211	4	GREASE ZERK,1/8"
11	6T3207	3	GREASE ZERK,1/4
12	35312	1	SET COLLAR
13	06510050	1	TRAVEL LOCK, METRIPACK COIL
14	31329	1	ADAPTER,1/2ORB X 1/2ORB ADJ
15	06501022	1	CYLINDER, 4" X 20"
16	06501023	1	CYLINDER,3" X 18"
17	06537021	6	ROLL PIN,5MM
18	TB1033	1	PIN,1" X 4"
19	TB1036	1	PIN,1" X 4-11/16"
20	TF1143	1	PIN,LYNCH
21	21688	2	CAPSCREW,7/16" X 3-1/4",NC
22	21677	2	NYLOCK NUT,7/16",NC
23	6T3210	1	GREASE ZERK,1/8" X 90°
24	TB1025	1	PIN,1-1/2" X 12"
25	30172	1	CLEVIS,SPHERICAL
26	6T3014	2	ROLL PIN, 1/4" X 2"
27	TB1045B	2	PIN, PRIMARY CYLINDER
24 25 26	TB1025 30172 6T3014	1 1 2	PIN,1-1/2" X 12" CLEVIS,SPHERICAL ROLL PIN, 1/4" X 2"

BOOM ASSY HYD BENGAL 22 T4



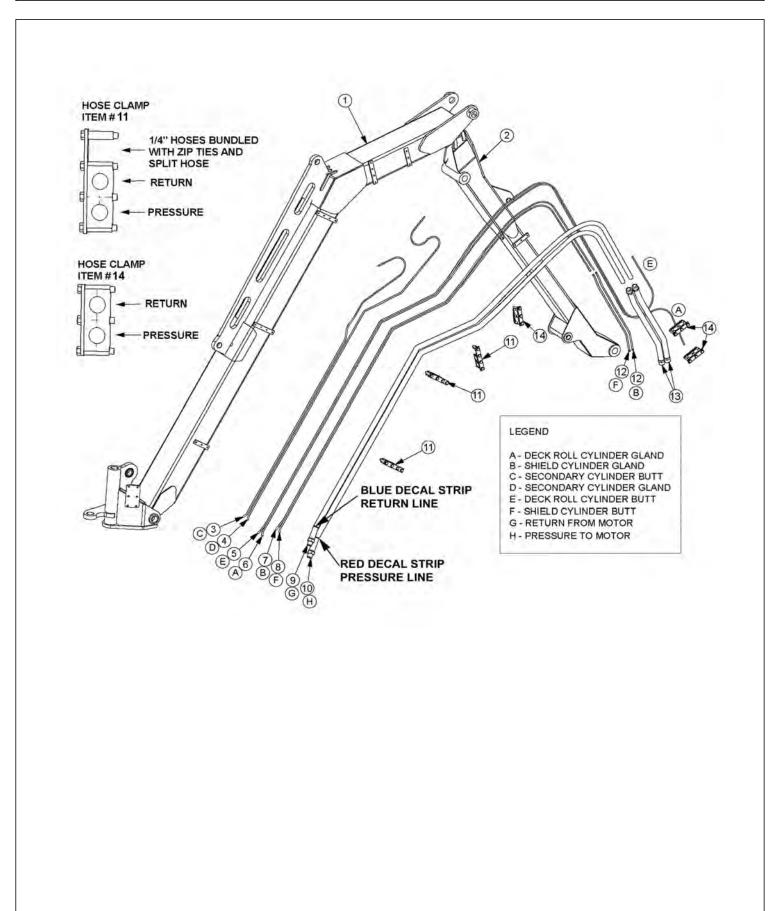
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MAIN BOOM *REFER TO BOOM ARM ASSY
2		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY
3	06500694	1	HOSE, 1/4" X 83"
4		1	HOSE, 1/4" X 83"
5	06500695	1	HOSE, 1/4" X 138"
6		1	HOSE, 1/4" X 138"
7	06500696	1	HOSE, 1/4" X 112"
8		1	HOSE, 1/4" X 112"
9	34645	1	HOSE, 1" X 182"
10		1	HOSE, 1" X 182"
11	06505019	3	CLAMP KIT,3 SECTION
12	34102	2	TUBE, PRFRMD, SEC BOOM
13	2403306	2	TUBE,PRFRMD,SEC BOOM,HP
14	30111	2	CLAMP KIT,2 SECTION

BOOM ASSY BENGAL EXT 24 T4



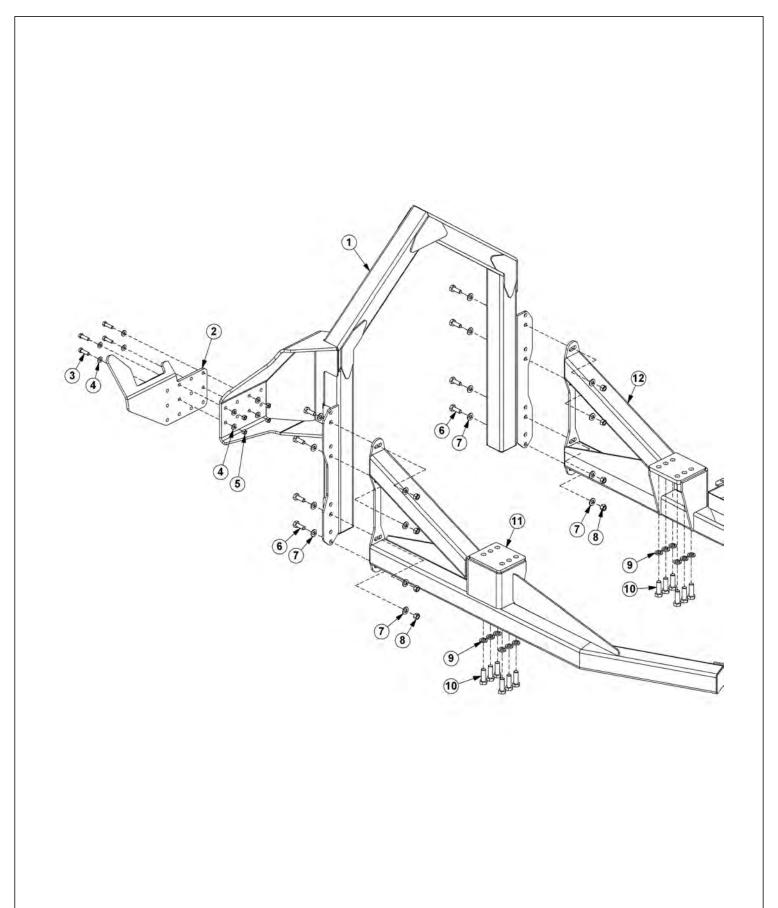
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	SWIVEL ASSY *REFER TO TRACTOR MOUNT KIT
2	06700191	1	MAIN BOOM, EXT, T4
3	06700094	1	SECONDARY BOOM ARM ASSY, EXT, T4
4	32321	2	BEARING, DX, 1-1/2" X 2"
5	TB1044	2	BUSHING, 1-1/4"ID
7	06501020	1	CYLINDER, 5" X 20"
8	TB3010	3	BUSHING, 1"ID
9	TB1035	1	BUSHING,SPACER
10	6T3211	4	GREASE ZERK,1/8"
11	6T3207	3	GREASE ZERK,1/4
12	35312	1	SET COLLAR
13	06510050	1	TRAVEL LOCK, METRIPACK COIL
14	31329	1	ADAPTER,1/20RB X 1/20RB ADJ
15	06501022	1	CYLINDER, 4" X 20"
16	06501023	1	CYLINDER,3" X 18"
17	06537021	6	ROLL PIN,5MM
18	TB1033	1	PIN,1" X 4"
19	TB1036	1	PIN,1" X 4-11/16"
20	TF1143	1	PIN,LYNCH
21	21688	2	CAPSCREW,7/16" X 3-1/4",NC
22	21677	2	NYLOCK NUT,7/16",NC
23	6T3210	1	GREASE ZERK,1/8" X 90°
24	TB1025	1	PIN,1-1/2" X 12"
25	30172	1	CLEVIS,SPHERICAL
26	6T3014	2	ROLL PIN, 1/4" X 2"
27	TB1045B	2	PIN, PRIMARY CYLINDER

BOOM ASSY HYD BENGAL 24 T4



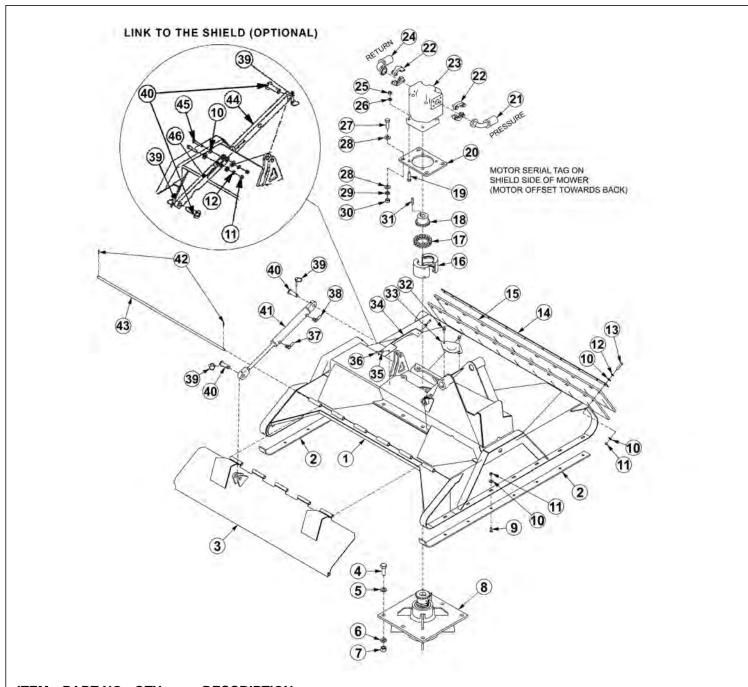
ITEM	PART NO.	QTY.	DESCRIPTION
1		-	MAIN BOOM *REFER TO BOOM ARM ASSY
2		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY
3	06500716	1	HOSE, 1/4" X 100"
4		1	HOSE, 1/4" X 100 "
5	06500717	1	HOSE, 1/4" X 170"
6		1	HOSE, 1/4" X 170"
7	06500718	1	HOSE, 1/4" X 130"
8		1	HOSE, 1/4" X 130"
9	06500715	1	HOSE, 1" X 198"
10		1	HOSE, 1" X 198"
11	06505019	3	CLAMP KIT,3 SECTION
12	34103	2	TUBE, PRFRMD, SEC BOOM
13	30169	2	TUBE,PRFRMD,SEC BOOM,HP
14	30111	2	CLAMP KIT,2 SECTION

BOOMREST - OPEN STOW



ITEM	PART NO.	QTY.	DESCRIPTION
1	06310159	1	BOOMREST,OS
2	06410968	1	SADDLE
3	21732	4	CAPSCREW,1/2" X 1-3/4",NC
4	06533004	8	FLATWASHER,1/2",SAE
5	21725	4	HEX NUT,1/2",NC
6	21782	8	CAPSCREW,5/8" X 1-3/4",NC
7	33764	16	FLATWASHER,5/8",SAE
8	21775	8	HEX NUT,5/8",NC
9	24881	12	LOCKWASHER,20MM
10	27281	12	CAPSCREW,20MM X 60MM,2.5P
11	06300019	1	AXLE BRACE,RH
12	06300256	1	AXLE BRACE,LH

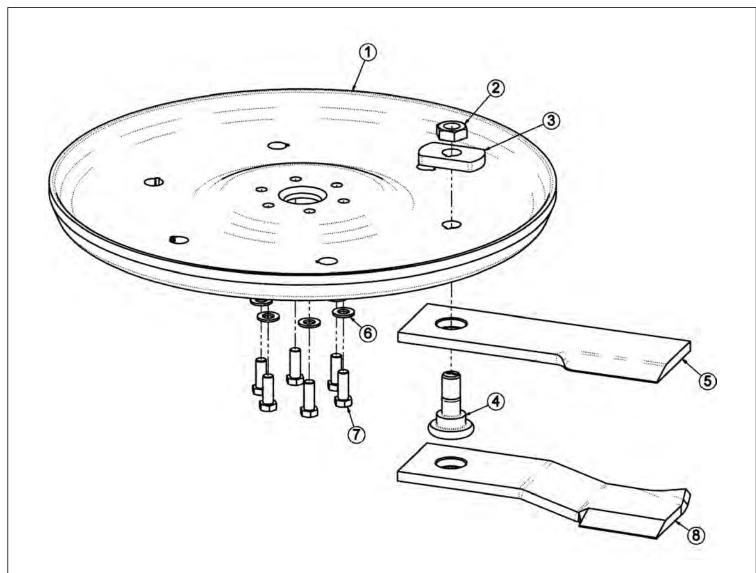
50IN ROTARY MOWER ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	33780	1	DECK,WLDMNT,50" RTRY
2	33777	2	SKID SHOE,50" RTRY
3	33754	1	SHIELD,50"RTRY
4	33879	6	CAPSCREW, 3/4 X 2 1/4,NF GR 8
5	33880	6	FLATWASHER,3/4",GR 8,SAE
6	21993	6	LOCKWASHER,3/4",GR 8
7	6T2413	6	HEX NUT,3/4,NF,GR 8
8	6T1024H5	1	SPINDLE ASSY, CPLT, HD, 5/8 HOLES

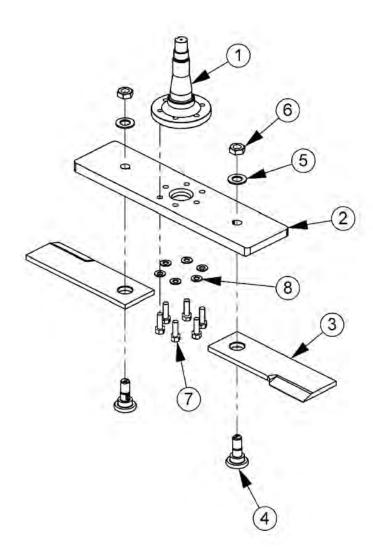
ITEM	PART NO.	QTY.	DESCRIPTION
9	6T2270	16	PLOW BOLT,3/8" X 1" NC
10	22016	33	FLATWASHER,3/8"
11	21625	20	HEX NUT,3/8",NC
12	21988	11	LOCKWASHER, 3/8"
13	21633	11	CAPSCREW, 3/8 X 1 3/4,NC
14	33774	1	FLAP RETAINER,50" RTRY
15	33775	2	FLAP,50" RTRY
16	6T1033	1	COUPLER COVER
17	6T1029	1	COUPLER CHAIN
18	21223	1	SPROCKET
19	21733	4	CAPSCREW, 1/2 X 2,NC
20	33776	1	MOTOR MOUNT, PLATE, 50" RTRY
21	24490	1	HOSE - PRESSURE
	06500155	1	HOSE- PRESSURE (LRS ONLY)
22	TF4852	2	FLANGE KIT - #20
23	06504012	1	MOTOR
24	24489	1	HOSE - RETURN
	06500154	1	HOSE-RETURN (LRS ONLY)
25	21725	4	HEX NUT, 1/2" NC
26	06533004	4	FLATWASHER, 1/2"
27	6T2290	4	CAPSCREW,5/8X2,NF GR 8
28	33764	8	FLATWASHER,5/8",GR 8,SAE
29	21992	4	LOCKWASHER, 5/8
30	6T2408	4	HEX NUT, 5/8, NF
31	TF1124	1	SQUARE KEY
32	33881	2	CAPSCREW,FLG, 3/8 X 3/4,NC
33	33779	1	PLATE,COVER,KNF HOLE
34	06410439	1	COVER
35	22014	2	FLATWASHER,1/4
36	21530	2	CAPSCREW,1/4 X 1,NC
37	34187	1	HOSE 1/4" X 75"
38	34186	1	HOSE 1/4" X 66"
39	RD1032	2	LYNCH PIN
40	33984	2	PIN,SHIELD,50"
41	33785	1	1-1/2" X 8", CYLINDER, WELDED
42	6T3017	2	ROLLPIN
43	33778	1	HINGE PIN,50" RTRY
44	33772	1	LINK, SHIELD 50" RTRY
45	21634	2	CAPSCREW, 3/8" X 2, NC
46	33773	1	LINK 2, SHIELD 50" RTRY

50IN ROTARY KNIVES AND DISH



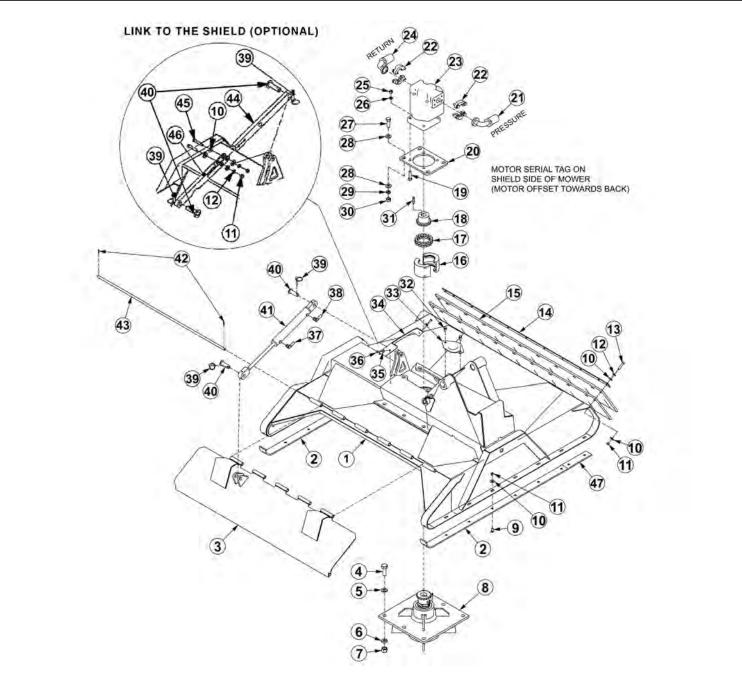
ITEM	PART NO.	QTY.	DESCRIPTION
	06700089	-	KIT,TRB50,DISK,W/BOLT KIT (INCLUDES ITEMS 1,3 & 7)
1	06770003	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK HEX NUT 1 1/8"
3	34878	2	SPACER
4	06538000	2	KNIFE MOUNTING BOLT
5	06521001	2	STANDARD KNIFE
6	33764	6	FLATWASHER
7	6T2259	6	CAPSCREW
	06770012	-	BOLT KIT (INCLUDES ITEMS 6, 7 & LOCTITE)
8	06521002	2	GRASS KNIFE (OPTIONAL)
	6T1825	-	LOCTITE - USED ON ALL DISK MOUNTING BOLTS

50IN ROTARY BLADE BAR AND KNIVES



ITEM	PART NO.	QTY.	DESCRIPTION
1	PT1018H5	1	SPINDLE,5/8HOLES,HD,WO/TABS
2	06400388	1	BAR,BLADE,TRB
3	06521001	2	KNIFE,TRB50,5/8
4	06538000	2	KNIFE MTG BOLT,5/8 SHOULDER
5	06533002	2	FLATWASHER,1 1/8,GR 8
6	6T1023R	2	KNIFE MTG NUT,1 1/8,NF,GR8
7	6T2259	6	CAPSCREW,5/8X1-3/4,NF,GR8
8	33764	6	FLATWASHER,5/8,GR 8,SAE

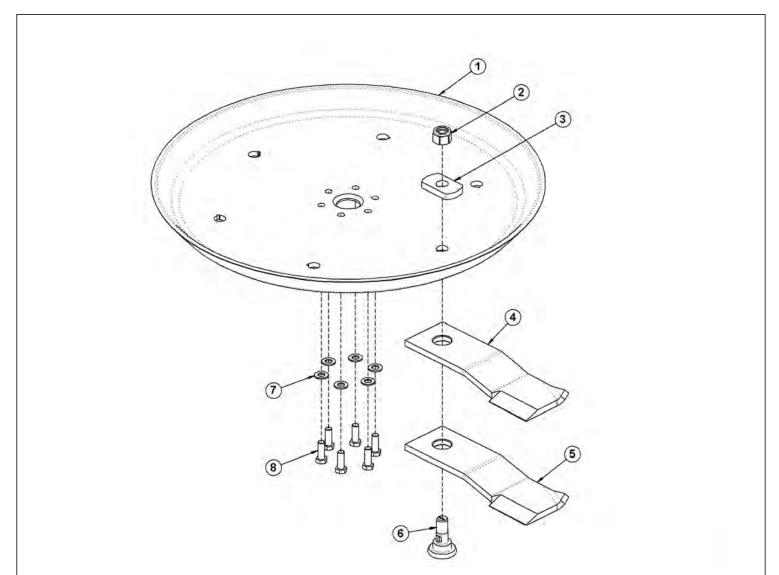
60IN ROTARY MOWER ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	06320159	1	DECK,WLDMNT,60" RTRY
2	33777	2	SKID SHOE,RTRY
3	06320162	1	SHIELD,60"RTRY
4	33879	6	CAPSCREW, 3/4 X 2 1/4,NF GR 8
5	33880	6	FLATWASHER,3/4",GR 8,SAE
6	21993	6	LOCKWASHER,3/4",GR 8
7	6T2413	6	HEX NUT,3/4,NF,GR 8
8	6T1024H5	1	SPINDLE ASSY, CPLT, HD, 5/8 HOLES

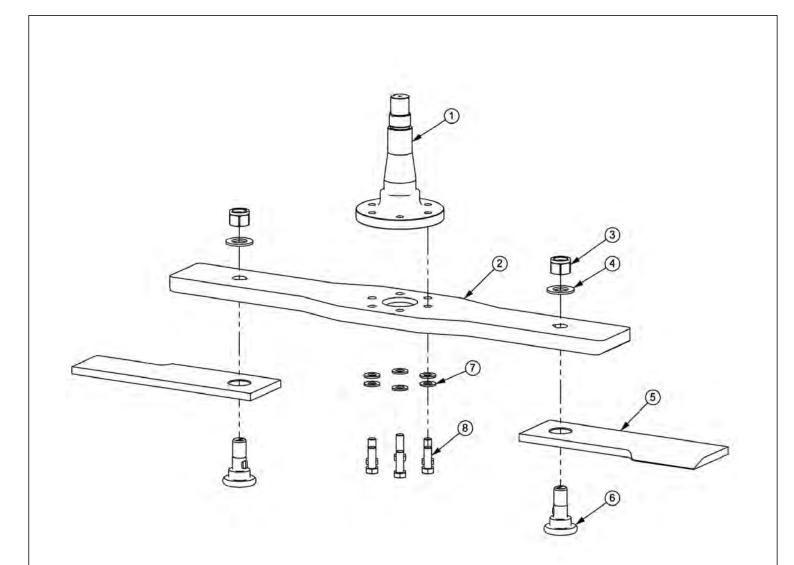
ITEM	PART NO.	QTY.	DESCRIPTION
9	6T2270	16	PLOW BOLT,3/8" X 1" NC
10	22016	33	FLATWASHER,3/8"
11	21625	20	HEX NUT,3/8",NC
12	21988	11	LOCKWASHER, 3/8"
13	21633	11	CAPSCREW, 3/8 X 1 3/4,NC
14	6T0823	1	FLAP RETAINER,60" RTRY
15	06520238	2	FLAP,60" RTRY
16	6T1033	1	COUPLER COVER
17	6T1029	1	COUPLER CHAIN
18	21223	1	SPROCKET
19	21733	4	CAPSCREW, 1/2 X 2,NC
20	33776	1	MOTOR MOUNT, PLATE, RTRY
21	24490	1	HOSE - PRESSURE
	06500155	1	HOSE-PRESSURE (LRS ONLY)
22	TF4852	2	FLANGE KIT - #20
23	6504011	1	MOTOR
24	24489	1	HOSE - RETURN
	06500154	1	HOSE-RETURN (LRS ONLY)
25	21725	4	HEX NUT, 1/2" NC
26	06533004	4	FLATWASHER, 1/2"
27	6T2290	4	CAPSCREW,5/8X2,NF GR 8
28	33764	8	FLATWASHER,5/8",GR 8,SAE
29	21992	4	LOCKWASHER, 5/8
30	6T2408	4	HEX NUT, 5/8, NF
31	TF1124	1	SQUARE KEY
32	33881	2	CAPSCREW,FLG, 3/8 X 3/4,NC
33	33779	1	PLATE,COVER,KNF HOLE
34	06410439	1	COVER
35	22014	2	FLATWASHER,1/4
36	21530	2	CAPSCREW,1/4 X 1,NC
37	34187	1	HOSE 1/4" X 75"
38	34186	1	HOSE 1/4" X 66"
39	RD1032	2	LYNCH PIN
40	33984	2	PIN,SHIELD
41	33785	1	1-1/2" X 8", CYLINDER, WELDED
42	6T3017	2	ROLLPIN
43	06420139	1	HINGE PIN,60" RTRY
44	33772	1	LINK, SHIELD, RTRY
45	21634	2	CAPSCREW, 3/8" X 2, NC
46	33773	1	LINK 2, SHIELD, RTRY
47	06401245	2	SKID SHOE, TRB60

60IN ROTARY KNIVES AND DISH



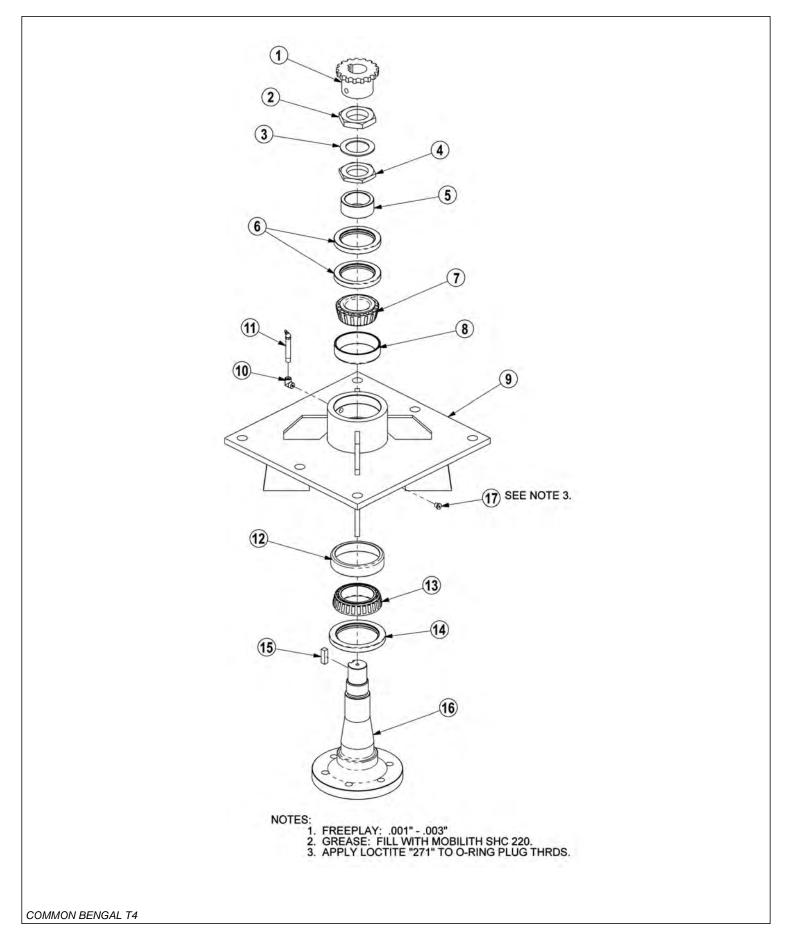
ITEM	PART NO.	QTY.	DESCRIPTION
1	34876	1	BLADE MOUNTING DISH,60"
2	6T1023R	2	NYLOCK NUT,1-1/8",NF
3	34878	2	SPACER
4	34684	2	STANDARD GRASS KNIFE
5	34685	2	HIGH SUCTION GRASS KNIFE (OPTIONAL)
6	34497	2	KNIFE MOUNTING BOLT
7	25270	6	FLATWASHER,5/8",GR8,USS
8	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF,GR8
	6T1825	1	LOCKTITE (USED ON ITEM 8)
	27167	1	BOLT KIT (ITEMS 7 & 8)
	33893	1	KNIFE KIT (ITEMS 2,4 & 6)

60IN ROTARY BLADE BAR AND KNIVES



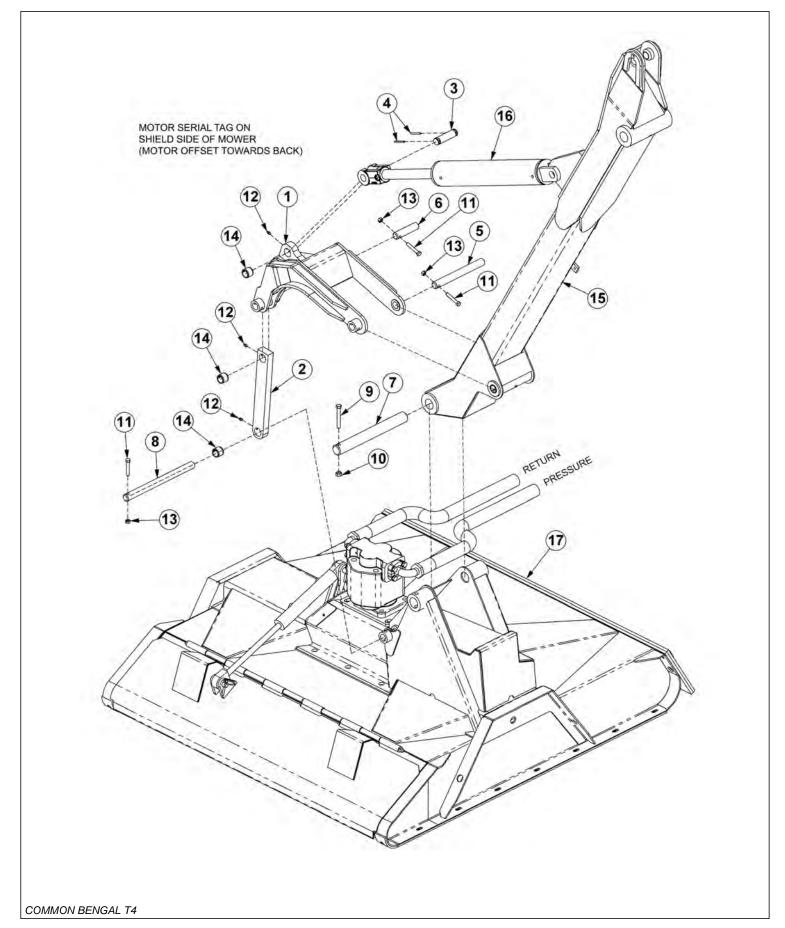
ITEM	PART NO.	QTY.	DESCRIPTION
1	PT1018H5	1	SPINDLE
2	06400690	1	BAR,BLADE,RTRY60
3	6T1023R	2	KNIFE MTG NUT,1-1/8,NYLOCK,NF
4	06533002	2	FLATWASHER,1-1/8,GR8
5	06521001	2	KNIFE,TRB50,5/8
6	06538000	2	KNIFE MTG BOLT,5/8 SHOULDER
7	33764	6	FLATWASHER,5/8,GR 8,SAE
8	6T2259	6	CAPSCREW,5/8 X 1-3/4,NF,GR8

ROTARY MOWER SPINDLE ASSEMBLY



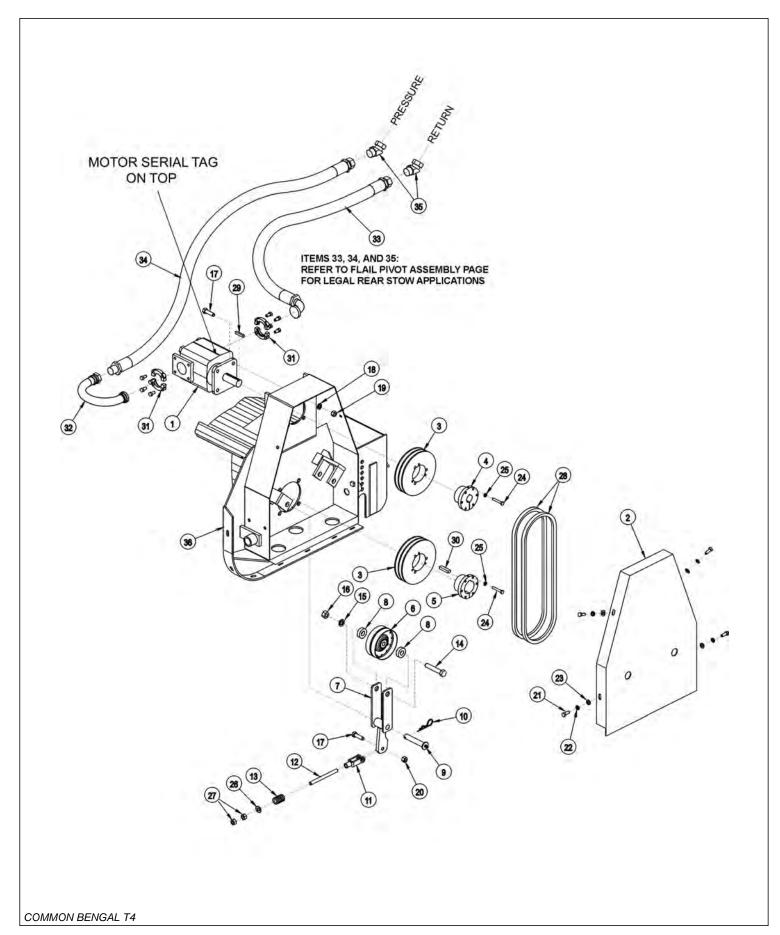
ITEM	PART NO.	QTY.	DESCRIPTION
	6T1024H5	-	SPINDLE ASSEMBLY COMPLETE
1	6T1031	1	SPROCKET
2	6T1016	1	BEARING LOCK NUT - THICK
3	22596	1	JAM WASHER
4	6T1015	1	BEARING ADJUSTMENT NUT - THIN
5	6T1014	1	BEARING ADJUSTMENT SLEEVE
6	6T1011	1	UPPER SEAL - SET OF 2
7	6T1012	1	BEARING CONE
8	6T1013	1	BEARING CUP
9	6T1010H	1	SPINDLE HOUSING
10	30570	1	FITTING STREET ELBOW
11	33990	1	GREASE ZERK
12	6T1013H	1	BEARING CUP
13	6T1012H	1	BEARING CONE
14	6T1011H	1	LOWER SEAL
15	6T1019	1	SPINDLE KEY
16	PT1018H5	1	SPINDLE
17	06503064	1	O-RING PLUG, 1/8"
	31771	-	SPINDLE REBUILD KIT (INCLUDES ITEMS 2 - 8 AND 12 - 15)

BOOM ROTARY PIVOT ASSEMBLY



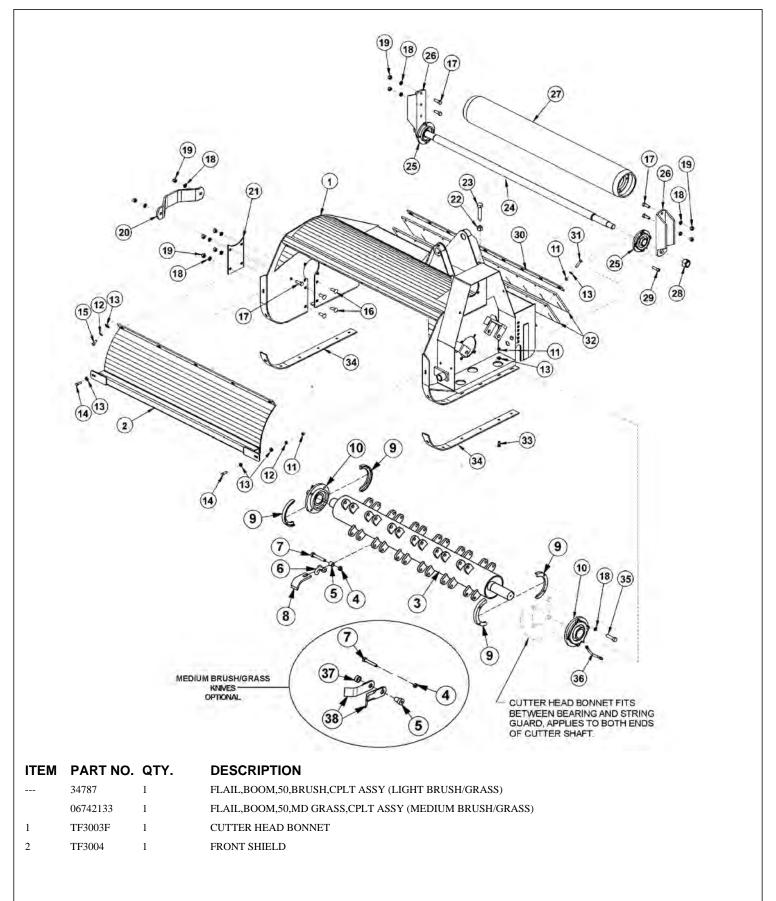
ITEM	PART NO.	QTY.	DESCRIPTION
1	TB1032	1	ROTARY PIVOT ASSY
2	TB1028	1	PIVOT ARM ASSY
3	TB1033	1	PIN,CLEVIS
4	06537021	2	ROLL PIN
5	TF3097	1	PIN
6	TB1030	1	PIN
7	33985	1	PIN
8	33986	1	PIN
9	21688	1	CAPSCREW,7/16 X 3-1/4,NC
10	21677	1	NYLOCK NUT,7/16 NC
11	21635	3	CAPSCREW,3/8 X 2-1/4
12	6T3207	3	GREASE ZERK
13	21627	3	NYLOCK NUT,3/8,NC
14	TB3010	3	BUSHING
15		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY
16		-	CYLINDER *REFER TO BOOM ARM ASSY
17		-	ROTARY MOWER HEAD *REFER TO ROTARY DECK

50IN FLAIL DRIVE ASSEMBLY



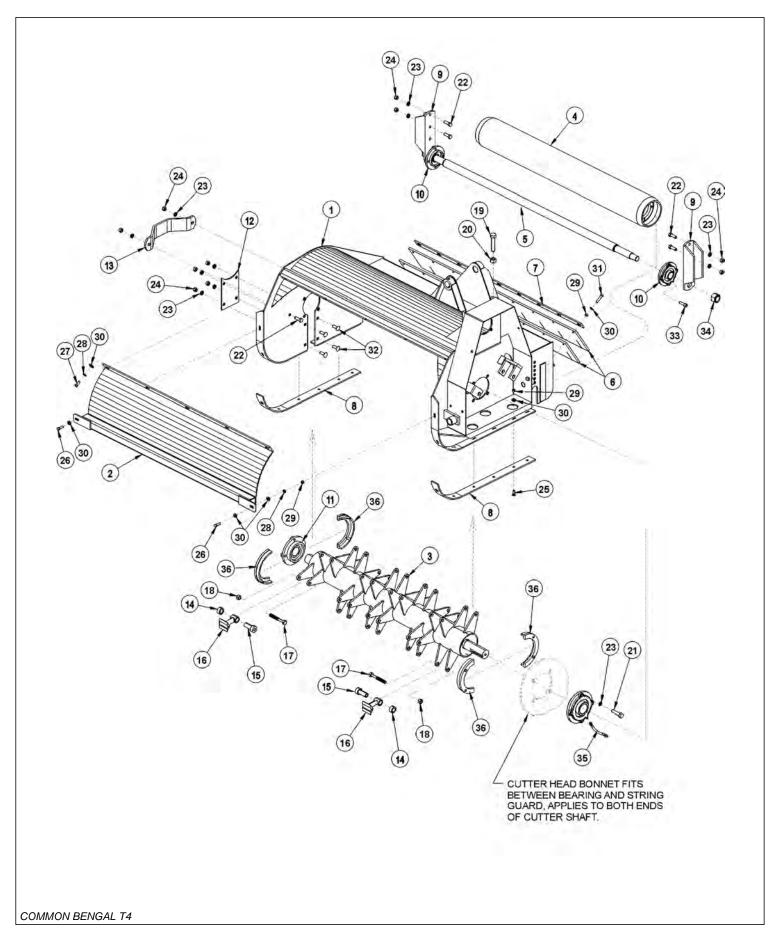
	ITEM	PART NO.	QTY.	DESCRIPTION
	1	06504132	1	MOTOR (M350-1 3/4" GEAR)
	2	TF3006	1	BELT GUARD
	3	TF3043	2	SHEAVE
	4	TF3013	1	BUSHING
	5	TF3011	1	BUSHING
	6	TF3034	1	IDLER PULLEY
	7	TF3205	1	IDLER ARM
	8	TF3206	2	IDLER PULLEY SPACER
	9	TF3605	1	IDLER ARM PIN WITH ZERK
	10	6T3004	1	R - CLIP
	11	PT3611A	1	CLEVIS
	12	32481	1	THREADED ROD
	13	TF3620	1	COMPRESSION SPRING
	14	21789	1	CAPSCREW 5/8" X 3 1/2"
	15	21992	1	LOCKWASHER 5/8"
	16	21775	1	HEX NUT 5/8"
	17	21732	5	CAPSCREW 1/2" X 1 3/4"
	18	21990	4	LOCKWASHER 1/2"
	19	21725	4	HEX NUT 1/2"
	20	6T2418	1	LOCK NUT 1/2"
	21	21630	4	CAPSCREW 3/8" X 1"
	22	21988	4	LOCKWASHER 3/8"
	23	22016	4	FLATWASHER 3/8"
	24	21584	6	CAPSCREW 5/16" X 2"
	25	21987	6	LOCKWASHER 5/16"
	26	27938	1	FLATWASHER 1/2"
	27	21700	2	HEX NUT 1/2" NF
	28	TF3021	2	BELT
	29	TF1125	1	SQUARE KEY
	30	TF1025	1	SQUARE KEY MOTOR
	31	TF4852	2	FLANGE KIT
	32	34227	1	PREFORMED TUBE
	33	31218	1	HOSE - RETURN
	34	34331	1	HOSE - PRESSURE
	35	24724	2	SWIVEL FITTING
	36		-	CUTTER HEAD *REFER TO CUTTER HEAD ASSY
- 1				

50IN FLAIL MOWER ASSEMBLY



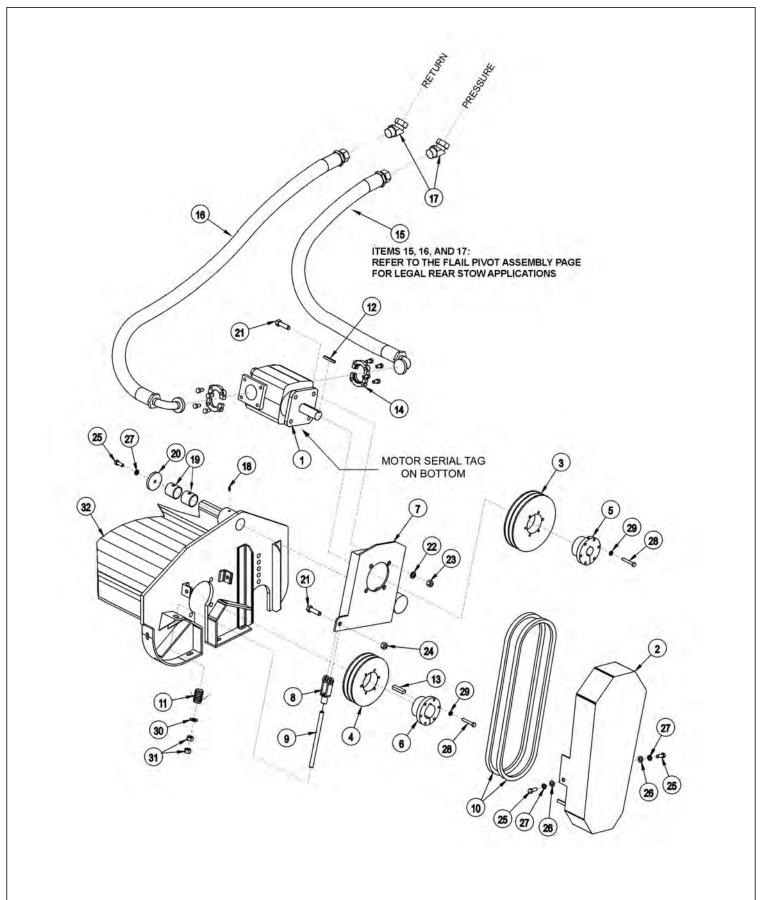
	ITEM	PART NO.	QTY.	DESCRIPTION
	3	34783	1	TBF50 (LIGHT BRUSH/GRASS KNIFE ASSY)
		06700115	1	TBF50 (MEDIUM BRUSH/GRASS KNIFE ASSY)
	4	6T2419	24	HEX NUT,9/16",NC,STOVER
	5	06420182	24	BUSHING
	6	34782	24	CLEVIS (LIGHT BRUSH/GRASS KNIVES)
	7	34786	24	CAPSCREW,9/16" X 3-1/2",NC
	8	34780	24	KNIFE (LIGHT BRUSH/GRASS CUTTING)
	9	31204	2	STRING GUARD SET (2 PIECES PER SET)
	10	TF1018	2	FLANGE BEARING,2-3/16"
	11	21625	23	HEX NUT,3/8",NC
	12	21988	7	LOCKWASHER,3/8"
	13	22016	30	FLATWASHER,3/8"
	14	21631	2	CAPSCREW,3/8" X 1-1/4",NC
	15	21630	5	CAPSCREW,3/8" X 1",NC
	16	6T7031D	4	PLOW BOLT,1/2" X 1-1/2",NC
	17	21731	6	CAPSCREW,1/2" X 1-1/2",NC
	18	21990	18	LOCKWASHER,1/2"
	19	21725	10	HEX NUT,1/2",NC
	20	TF1040	1	CUTTER SHAFT GUARD
	21	TF3007A	1	COVER PLATE
	22	21825	1	HEX NUT,5/8",NC
	23	21838	1	CAPSCREW,3/4" X 3-1/2",NC
	24	TF3406	1	GROUND ROLLER TIE ROD
	25	TF1022	2	FLANGE BEARING,1-3/8"
	26	TF3407	2	GROUND ROLLER ADJUSTMENT BRACKET
	27	TF3405	1	GROUND ROLLER
	28	6T1023R	2	NYLOCK NUT,1-1/8",NF
	29	6T2330	8	CAPSCREW,7/16" X 1-1/2",SOCKET HEAD
	30	TB1008	1	FLAP RETAINING BAR
	31	21633	9	CAPSCREW,3/8" X 1-3/4",NC
	32	TB1006A	2	DEFLECTOR FLAP
	33	6T2270	12	PLOWBOLT,3/8" X 1",NC
	34	TF3001	2	SKID SHOE
	35	06530218	8	CAPSCREW,1/2" X 1-3/4",NC
	36	TF1032	1	FLANGE BEARING GREASE HOSE
ĺ	37	06420183	24	SPACER (MEDIUM BRUSHGRASS KNIVES)
	38	06521007	48	KNIFE (MEDIUM BRUSH/GRASS CUTTING)
L				

50IN FLAIL MOWER ASSY, PASS-THROUGH KNIVES



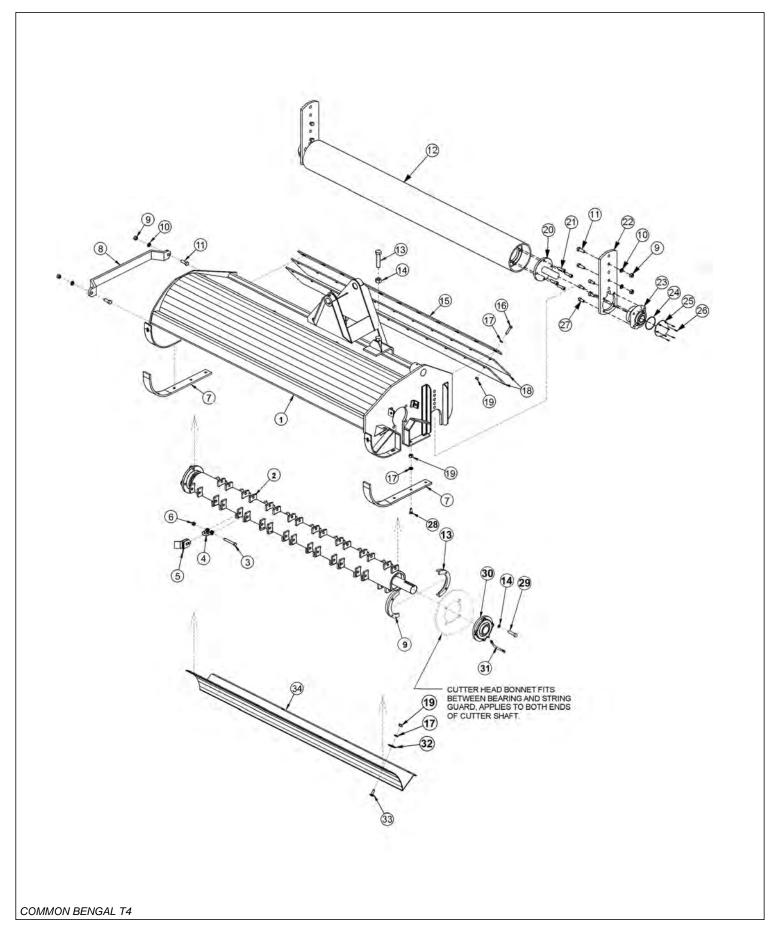
ITEM	PART NO.	QTY.	DESCRIPTION
	34172	1	FLAIL,BOOM,50,CPLT ASSY
1	TF3003F	1	CUTTER HEAD BONNET
2	TF3004	1	FRONT SHIELD
3	33717	1	TBF50,CUTTERSHAFT,PASS THRU KNIVES
4	TF3405	1	GROUND ROLLER
5	TF3406	1	GROUND ROLLER TIE ROD
6	TB1006A	2	DEFLECTOR FLAP
7	TB1008	1	FLAP RETAINING BAR
8	TF3001	2	SKID SHOE
9	TF3407	2	GROUND ROLLER ADJUSTMENT BRACKET
10	TF1022	2	FLANGE BEARING,1-3/8"
11	TF1018	2	FLANGE BEARING,2-3/16"
12	TF3007A	1	COVER PLATE
13	TF1040	1	CUTTER SHAFT GUARD
14	33858	24	SPACER,COLLAR
15	33857	24	SHOULDER, BUSHING
16	46399.01	24	KNIFE,FLAIL,FORGED
17	33854	24	CAPSCREW,5/8" X 4-1/2",NC
18	32674	24	HEX NUT,5/8",NC
19	21838	1	CAPSCREW,3/4" X 3-1/2",NC
20	21825	1	HEX NUT,5/8",NC
21	21732	8	CAPSCREW,1/2" X 1-3/4",NC
22	21731	6	CAPSCREW,1/2" X 1-1/2",NC
23	21990	18	LOCKWASHER,1/2"
24	21725	10	HEX NUT,1/2",NC
25	6T2270	12	PLOWBOLT,3/8" X 1",NC
26	21631	2	CAPSCREW,3/8" X 1-1/4",NC
27	21630	5	CAPSCREW,3/8" X 1",NC
28	21988	7	LOCKWASHER,3/8"
29	21625	23	HEX NUT,3/8",NC
30	22016	30	FLATWASHER,3/8"
31	21633	9	CAPSCREW,3/8" X 1-3/4",NC
32	6T7031D	4	PLOW BOLT,1/2" X 1-1/2",NC
33	6T2330	8	CAPSCREW,7/16" X 1-1/2",NC,SCKT HD
34	6T1023R	2	NYLOCK NUT,1-1/8",NF
35	TF1032	1	FLANGE BEARING GREASE HOSE
36	31204	2	STRING GUARD SET (2 PIECES PER SET)

63IN FLAIL DRIVE ASSEMBLY



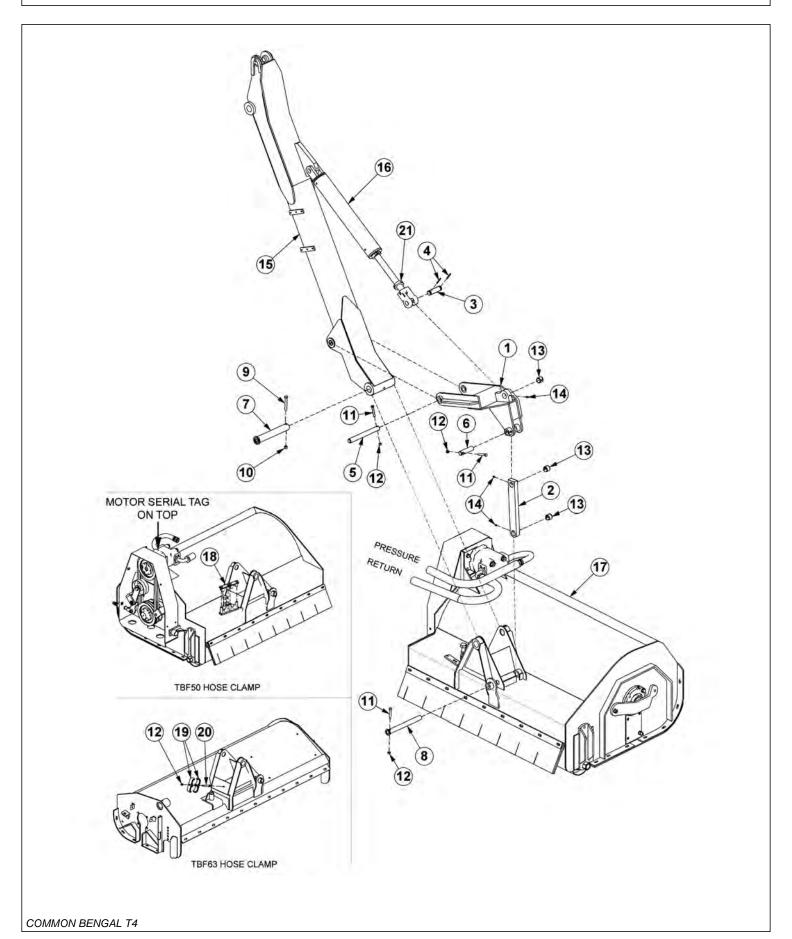
ITEM	PART NO.	QTY.	DESCRIPTION
1	06504132	1	MOTOR (M350-1 3/4 GEAR)
2	32569	1	BELT GUARD
3	TF3044	1	UPPER SHEAVE
4	TF3040	1	LOWER SHEAVE
5	TF3013	1	BUSHING
6	28723	1	BUSHING
7	28679B	1	MOTOR CHANNEL
8	PT3611A	1	CLEVIS
9	40496	1	THREADED ROD
10	28702	2	BELT
11	TF3620A	1	TENSIONER SPRING
12	28572	1	SQUARE KEY
13	26142A	1	SQUARE KEY
14	TF4852	2	FLANGE KIT
15	30308	1	HOSE,1 X 69 - PRESSURE
16	30309	1	HOSE,1 X 78 - RETURN
17	24724	2	SWIVEL FITTING
18	TF1033	1	GREASE ZERK
19	27580	2	BUSHING
20	28682	1	MOTOR CHANNEL WASHER
21	21732	5	CAPSCREW 1/2" X 1 3/4"
22	21990	4	LOCKWASHER 1/2"
23	21725	4	HEX NUT 1/2"
24	6T2418	1	STOVER NUT 1/2"
25	21630	3	CAPSCREW 3/8" X 1"
26	22016	2	FLATWASHER 3/8"
27	21988	3	LOCKWASHER 3/8"
28	21584	6	CAPSCREW 5/16" X 2"
29	21987	6	LOCKWASHER 5/16"
30	27938	1	FLATWASHER 1/2"
31	21700	2	HEX NUT 1/2" NF
32		-	CUTTER HEAD *REFER TO MOWER ASSY

63IN FLAIL MOWER ASSEMBLY



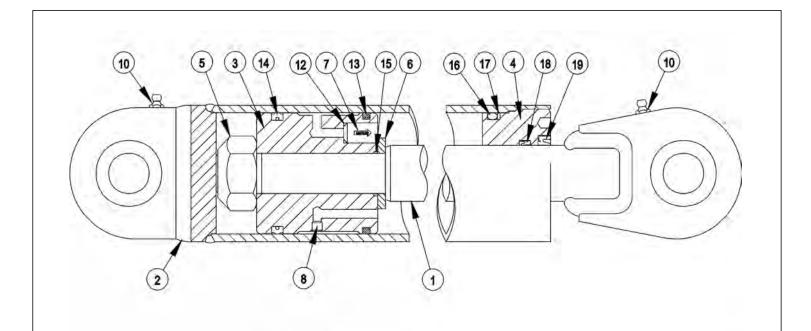
ITEM	PART NO.	QTY.	DESCRIPTION
	06200271	-	FLAIL,BOOM,63,GRASS,CPLT ASSY
1	28659H	1	CUTTER HEAD BONNET
2	28743	-	CUTTER SHAFT / KNIFE ASSY STANDARD GRASS
	28642C	1	CUTTER SHAFT,63,STD
3	34011	36	FLAIL KNIFE MOUNTING BOLT
4	TF1020	36	FLAIL KNIFE MOUNTING CLEVIS
5	33713	72	FLAIL KNIFE - STANDARD
6	21677	36	NYLOCK NUT
7	28086A	2	SKID SHOE
8	27975A	1	CUTTER SHAFT GUARD
9	21725	14	HEX NUT 1/2"
10	21990	14	LOCKWASHER 1/2"
11	21731	6	CAPSCREW 1/2" X 1 1/2"
12	06320240	1	GROUND ROLLER
13	33863	2	STRING GUARD,STD
14	06533006	8	FLATWASHER,1/2",SAE,L9
15	28700	1	FLAP RETAINING BAR
16	21633	11	CAPSCREW 3/8" X 1 3/4"
17	21988	28	LOCKWASHER 3/8"
18	28701	2	DEFLECTOR FLAP
19	21625	28	HEX NUT 3/8"
20	TF1045B	2	GROUND ROLLER STUB SHAFT
21	6T2330	8	CAPSCREW 7/16" X 1 1/2" SOCKET HEAD
22	28735	2	ADJUSTABLE ROLLER BRACKET
23	06520028	2	BEARING,FLANGE,1-3/8,GRNDRLLR
24	06520029	2	O-RING
25	06520027	2	CAP, BEARING, GROUNDROLLER
26	06530001	12	CAPSCREW,SKT HD,8-32 X 1/2,SS
27	6T2331	8	CAPSCREW 7/16" X 1" SOCKET HEAD
28	6T2270	10	PLOW BOLT 3/8" X 1 1/4"
29	06530217	8	CAPSCREW 1/2" X 2",L9
30	28683	2	FLANGE BEARING
31	TF1032	1	FLANGE BEARING GREASE HOSE
32	6T2615	7	FENDER WASHER 3/8"
33	6T2283	7	CARRIAGE BOLT 3/8" X 1"
34	28665A	1	BAFFLE (INSIDE UPPER REAR OF CUTTER HEAD)

BOOM FLAIL PIVOT ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	TF3015	1	FLAIL PIVOT ASSY
2	TB1028	1	PIVOT ARM ASSY
3	TB1033	1	PIN CLEVIS
4	06537021	2	ROLL PIN
5	TF3097	1	PIN
6	TF3090	1	PIN
7	TB1024	1	PIN
8	TB1027	1	PIN
9	21688	1	CAPSCREW 7/16" X 3 1/4"
10	21677	1	NYLOCK NUT 7/16"
11	21635	3	CAPSCREW 3/8" X 2 1/4"
12	21627	4	NYLOCK NUT 3/8"
13	TB5030	3	BUSHING
14	6T3207	3	GREASE ZERK
15		-	SECONDARY BOOM *REFER TO BOOM ARM ASSY
16		-	CYLINDER - REFER TO BOOM ARM ASSY
17		-	FLAIL MOWER HEAD *REFER TO FLAIL ASSY
18	31723	1	CLAMP KIT, TBF50 (USED ON 50" FLAIL)
19	TB3031	2	DOUBLE HOSE CLAMP (USED ON THE 63" FLAIL)
20	21638	1	CAPSCREW 3/8" X 3"
21	35312	2	SPLIT COLLAR

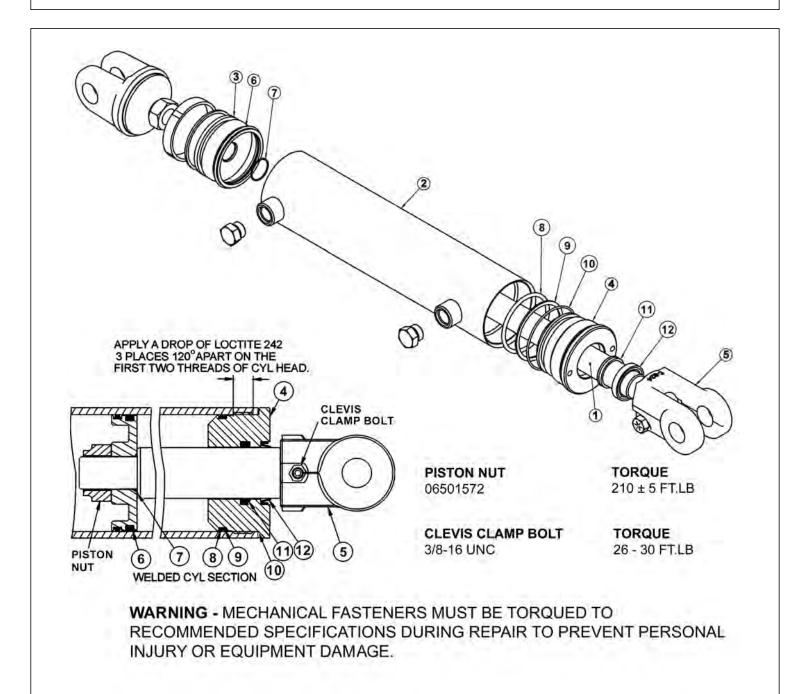
3IN X 13-7/8 IN WELDED CYLINDER BREAKDOWN



WARNING - MECHANICAL FASTENERS MUST BE TORQUED TO RECOMMENDED SPECIFICATIONS DURING REPAIR TO PREVENT PERSONAL INJURY OR EQUIPMENT DAMAGE.

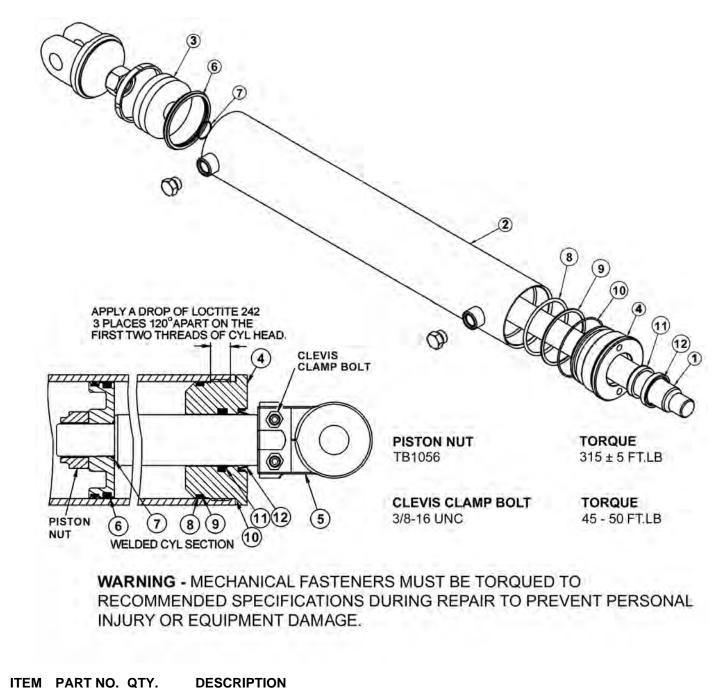
ITEM	PART NO.	QTY.	DESCRIPTION
	06501029	-	CYLINDER,WELDED,3" X 13.87"
1	06501630	1	PISTON ROD ASSY
2	06501648	1	BUTT & TUBE ASSY
3	06501649	1	PISTON
4	34574	1	GLAND
5	34575	1	LOCK NUT,1"-14 UNS (TORQUE TO 315 FT.LB.)
6	34576	1	SPACER
7	34577	1	CHECK VALVE, KEPNER
8	06501650	1	ORIFICE, ZERO LEAK, 0225
9	33761	1	SEAL KIT, PACKING (ITEMS 12 THRU 19)
10		2	GREASE ZERK
12		1	O - RING
13		1	CAST IRON PISTON RING
14		1	CROWN SEAL
15		1	O - RING
16		1	O - RING
17		1	BACK - UP WASHER
18		1	U - CUP
19		1	WIPER
20	34334	-	SPHERICAL BEARING (NOT SHOWN)

3IN X 18IN WELDED CYLINDER BREAKDOWN



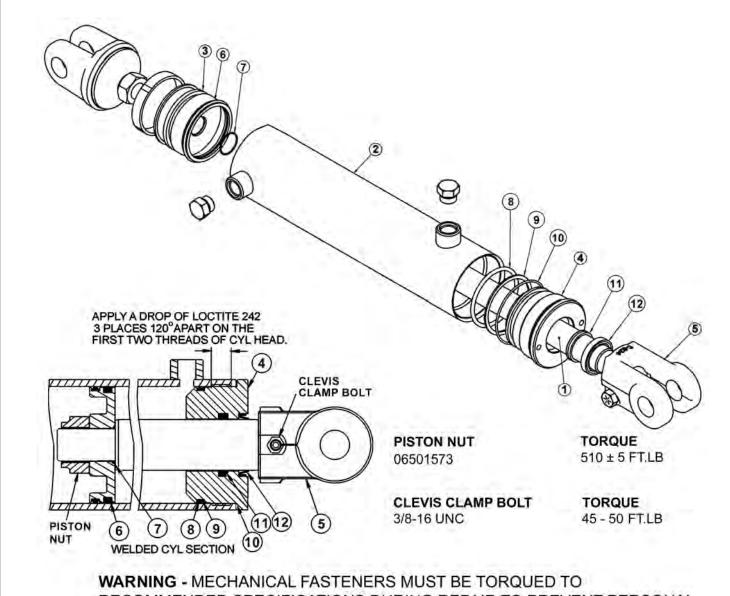
ITEM	PART NO.	QTY.	DESCRIPTION
	06501023	-	HYDRAULIC CYLINDER COMPLETE
1	06501561	1	ROD
2	06501562	1	TUBE WELDMENT
3	06501552	1	PISTON
4	06501563	1	CYLINDER HEAD
5	06501554	1	CLEVIS
	06501564	-	SEAL REPAIR KIT (ITEMS 6 THROUGH 12)

3-1/2IN X 20IN WELDED CYLINDER BREAKDOWN



	06501024	-	HYDRAULIC CYLINDER COMPLETE
1	06501565	1	ROD
2	06501566	1	TUBE WELDMENT
3	06501567	1	PISTON
4	06501568	1	CYLINDER HEAD
5	TB3033	-	CLEVIS
	06501569	-	SEAL REPAIR KIT (ITEMS 6 THROUGH 12)

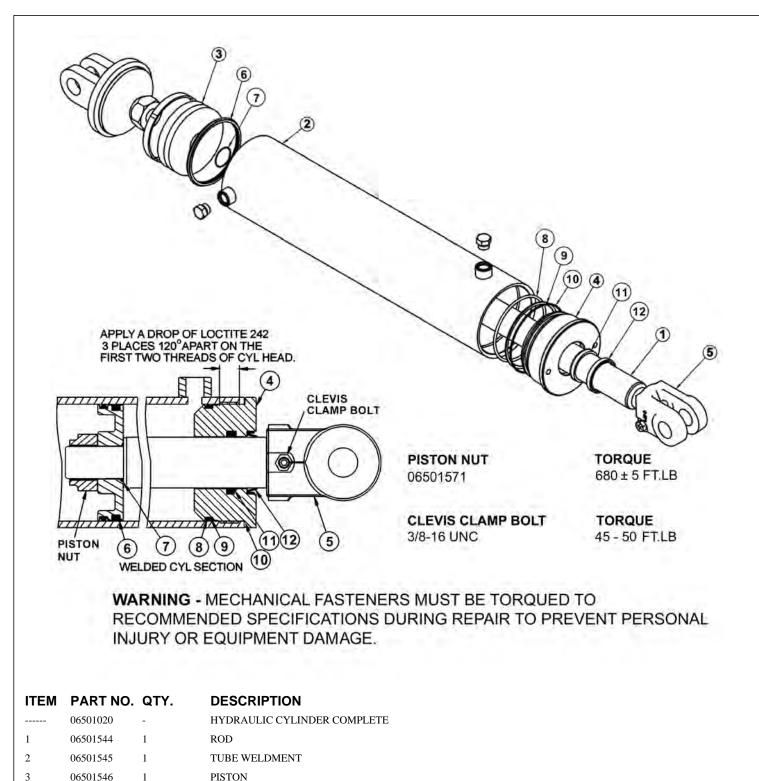
4IN X 20IN WELDED CYLINDER BREAKDOWN



RECOMMENDED SPECIFICATIONS DURING REPAIR TO PREVENT PERSONAL INJURY OR EQUIPMENT DAMAGE.

ITEM	PART NO.	QTY.	DESCRIPTION
	06501022	-	HYDRAULIC CYLINDER COMPLETE
1	06501556	1	ROD
2	06501557	1	TUBE WELDMENT
3	06501558	1	PISTON
4	06501559	1	CYLINDER HEAD
5	6T0172	1	CLEVIS
5A	30172	-	CLEVIS (FOR EXTENDED BOOM)
	06501560	-	SEAL REPAIR KIT (ITEMS 6 THROUGH 12)

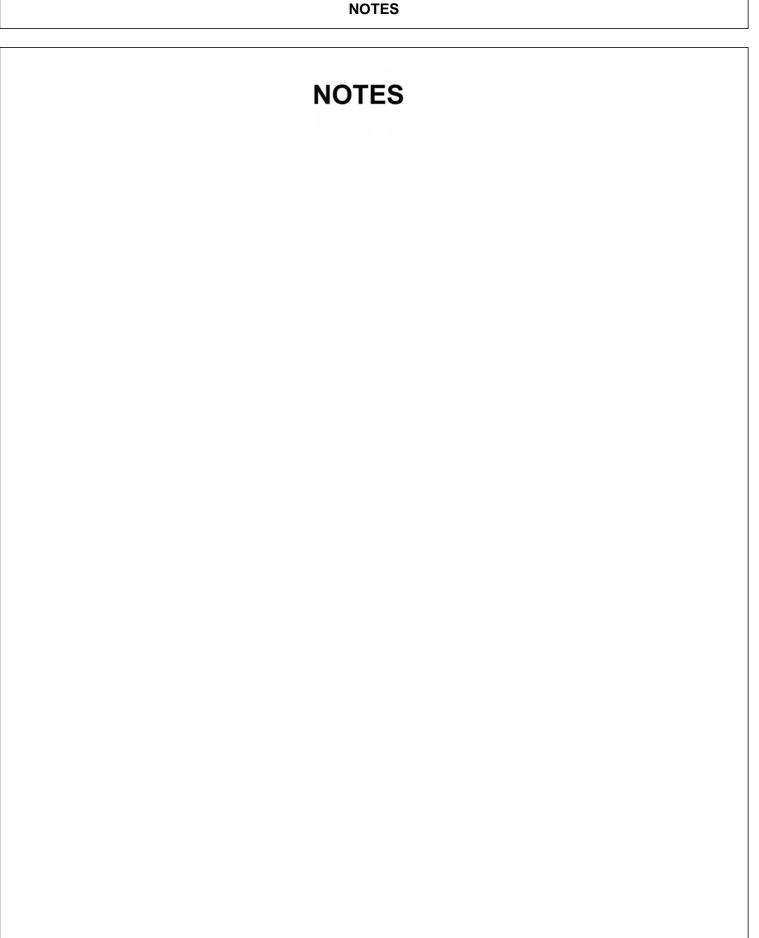
5IN X 20IN WELDED CYLINDER BREAKDOWN



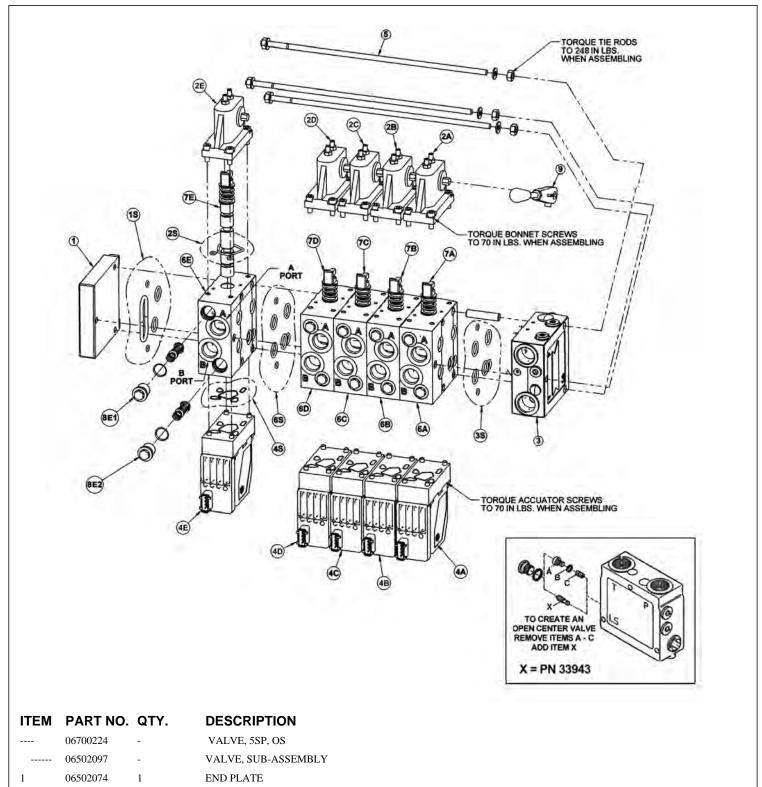
4 06501547 1 CYLINDER HEAD

5 06501548 1 CLEVIS

----- 06501549 - SEAL REPAIR KIT (ITEMS 6 THROUGH 12)



5 SPOOL ELECTRONIC VALVE - OPEN STOW, 3PS



1 END PLATE SEAL KIT

- 5 BONNET
- 06505042 1 BONNET SEAL KIT

COMMON BENGAL T4

06505013

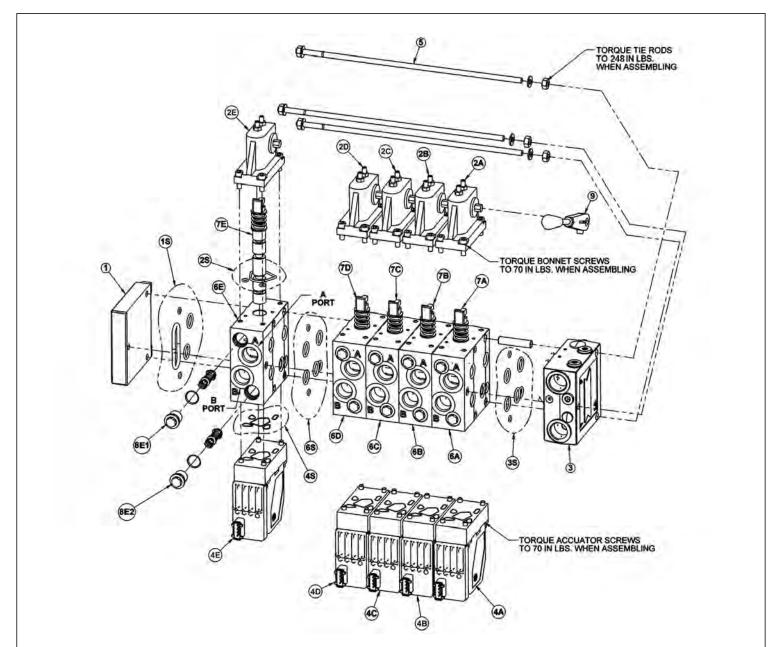
1S

2S

2

ITEM	PART NO.	QTY.	DESCRIPTION
2A	42197	1	MAIN BOOM BONNET
2B	42197	1	SECONDARY BOOM BONNET
2C	42197	1	DECK ROLL BONNET
2D	42197	1	BOOM SWIVEL BONNET
2E	42197	1	DECK SHIELD BONNET
3	34308	1	INLET SECTION
35	06505013	1	INLET SECTION SEAL KIT
4		5	ELECTRONIC ACCUATOR
4A	06502101	1	MAIN BOOM ELECTRONIC ACCUATOR
4B	06502101	1	SECONDARY BOOM ELECTRONIC ACCUATOR
4C	06502100	1	DECK ROLL ELECTRONIC ACCUATOR
4D	06502101	1	BOOM SWIVEL ELECTRONIC ACCUATOR
4E	06502099	1	DECK SHIELD ELECTRONIC ACCUATOR
5	42202	1	TIE-BOLT KIT
6		5	SECTION
6S	06505013	1	SECTION SEAL KIT
6A	42698	1	MAIN BOOM SECTION
6B	42698	1	SEC BOOM SECTION
6C	06502076	1	DECK ROLL SECTION
6D	42698	1	BOOM SWIVEL SECTION
6E	06502077	1	SHIELD SECTION
7		5	SPOOL
7A	42697	1	MAIN BOOM SPOOL
7B	42697	1	SEC BOOM SPOOL
7C	4242106	1	DECK ROLL SPOOL
7D	06502073	1	BOOM SWIVEL SPOOL
7E	42201	1	DECK SHIELD SPOOL
8		10	ANTI CAV/SHOCK RELIEF
8A1	06502084	1	MAIN BOOM A PORT RELIEF
8A2	06502081	1	MAIN BOOM B PORT RELIEF
8B1	42296	1	SEC BOOM A PORT RELIEF
8B2	06502082	1	SEC BOOM B PORT RELIEF
8C1	42295	1	DECK ROLL A PORT RELIEF
8C2	06502082	1	DECK ROLL B PORT RELIEF
8D1	06502070	1	BOOM SWIVEL A PORT RELIEF
8D2	06502083	1	BOOM SWIVEL B PORT RELIEF
8E1	06502081	1	DECK SHIELD A PORT RELIEF
8E2	06502081	1	DECK SHIELD B PORT RELIEF
9	33459	1	HANDLE

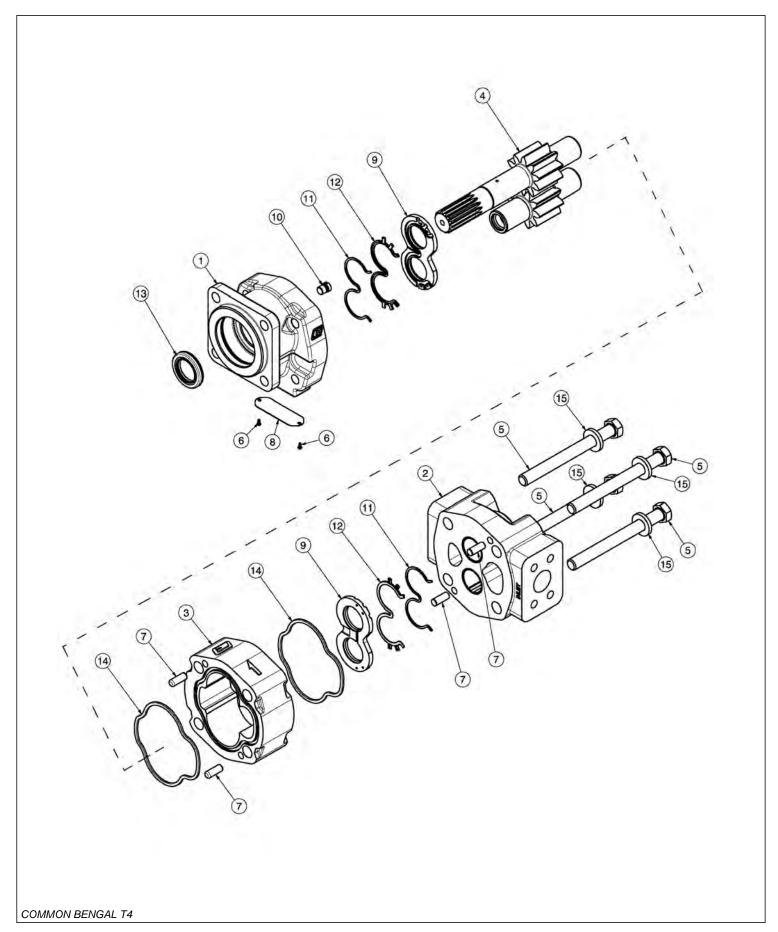
5 SPOOL ELECTRONIC VALVE - SIDE STOW



ITEM	PART NO.	QTY.	DESCRIPTION
	06502096	-	VLV,5SP,32PVG,SIDE STOW
1	06502074	1	END PLATE
1 S	06505013	1	END PLATE SEAL KIT
2		5	BONNET
2S	06505042	1	BONNET SEAL KIT
2A	42197	1	MAIN BOOM BONNET
2B	42197	1	SECONDARY BOOM BONNET
2C	42197	1	DECK ROLL BONNET
2D	42197	1	BOOM SWIVEL BONNET
2E	42197	1	DECK SHIELD BONNET

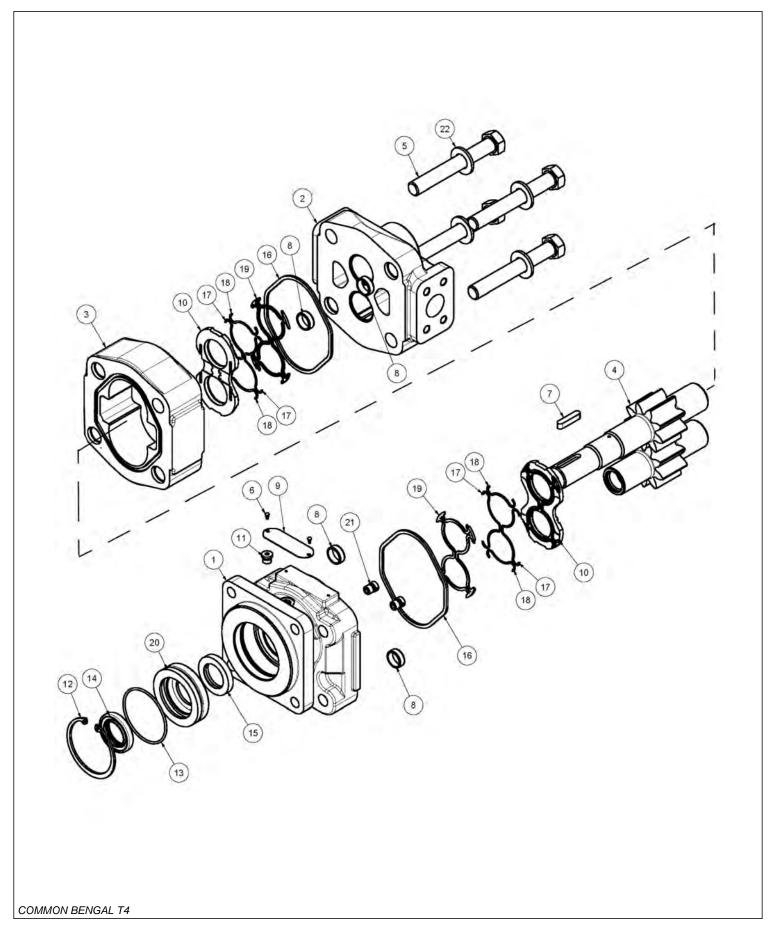
	ITEM	PART NO.	QTY.	DESCRIPTION
	3	34308	1	INLET SECTION
	3S	06505013	1	INLET SECTION SEAL KIT
	4		5	ELECTRONIC ACCUATOR
	4A	06502101	1	MAIN BOOM ELECTRONIC ACCUATOR
	4B	06502101	1	SECONDARY BOOM ELECTRONIC ACCUATOR
	4C	06502100	1	DECK ROLL ELECTRONIC ACCUATOR
	4D	06502101	1	BOOM SWIVEL ELECTRONIC ACCUATOR
	4E	06502099	1	DECK SHIELD ELECTRONIC ACCUATOR
	5	42202	1	TIE-BOLT KIT
	6		5	SECTION
	6S	06505013	1	SECTION SEAL KIT
	6A	42698	1	MAIN BOOM SECTION
	6B	42698	1	SEC BOOM SECTION
	6C	06502076	1	DECK ROLL SECTION
	6D	42698	1	BOOM SWIVEL SECTION
	6E	06502077	1	SHIELD SECTION
	7		5	SPOOL
	7A	42697	1	MAIN BOOM SPOOL
	7B	42697	1	SEC BOOM SPOOL
	7C	4242106	1	DECK ROLL SPOOL
	7D	06502073	1	BOOM SWIVEL SPOOL
	7E	42201	1	DECK SHIELD SPOOL
	8		10	ANTI CAV/SHOCK RELIEF
	8A1	42650	1	MAIN BOOM A PORT RELIEF
	8A2	06502069	1	MAIN BOOM B PORT RELIEF
	8B1	42650	1	SEC BOOM A PORT RELIEF
	8B2	42295	1	SEC BOOM B PORT RELIEF
	8C1	42296	1	DECK ROLL A PORT RELIEF
	8C2	42295	1	DECK ROLL B PORT RELIEF
	8D1	42295	1	BOOM SWIVEL A PORT RELIEF
	8D2	42295	1	BOOM SWIVEL B PORT RELIEF
	8E1	06502069	1	DECK SHIELD A PORT RELIEF
	8E2	06502069	1	DECK SHIELD B PORT RELIEF
	9	33459	1	HANDLE
1				

FRONT HYDRAULIC PUMP



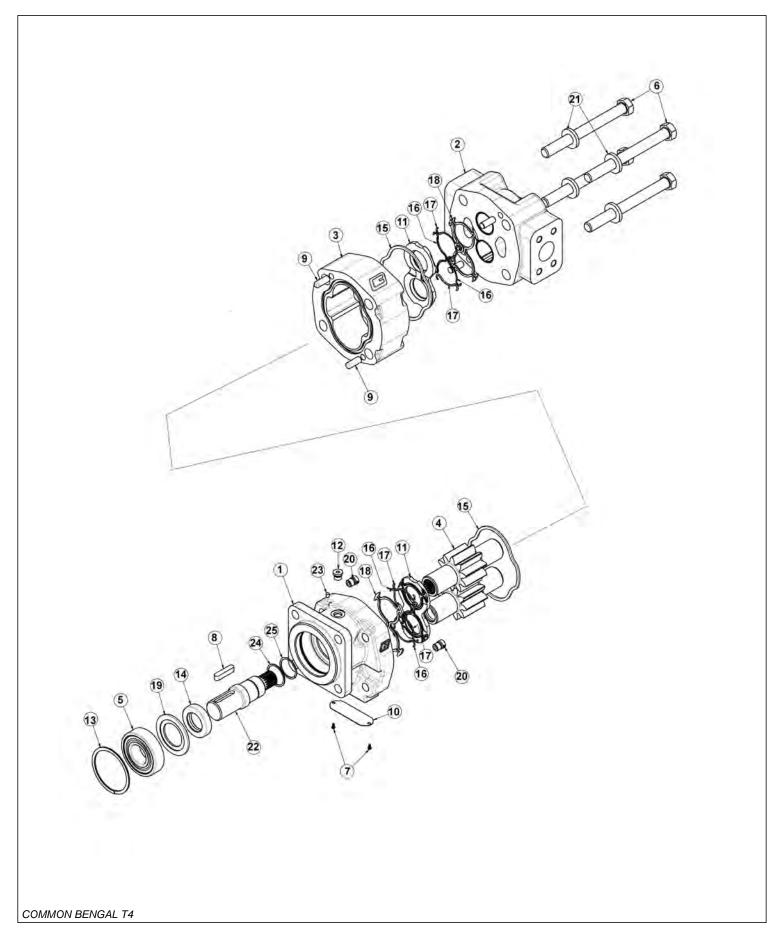
ITEM	PART NO.	QTY.	DESCRIPTION
	23152	1	PUMP ASSEMBLY,1-3/4",COMPLETE
1	22766	1	SHAFT END COVER
2	22779	1	PORT END COVER
3	22774	1	GEAR HOUSING,1-3/4"
4	22771	1	GEAR SET
5	23824	4	CAPSCREW
6	06504078	2	SCREW, DRIVE
7	22773	4	DOWEL PINS
8	06504077	1	NAMEPLATE
9	22770	2	THRUST PLATE
10	22767	1	PLUG
11	06504075	2	SEAL,BK-UP
12	06504074	2	SEAL,CHAN
13	22765	1	SEAL,LIP
14	06504076	2	SEAL,SQ-R
15	02961917	4	WASHER
	24150	1	SEAL KIT (INCLUDES 11, 12, 13 AND 14)

50IN AND 60IN ROTARY MOTOR BREAKDOWN



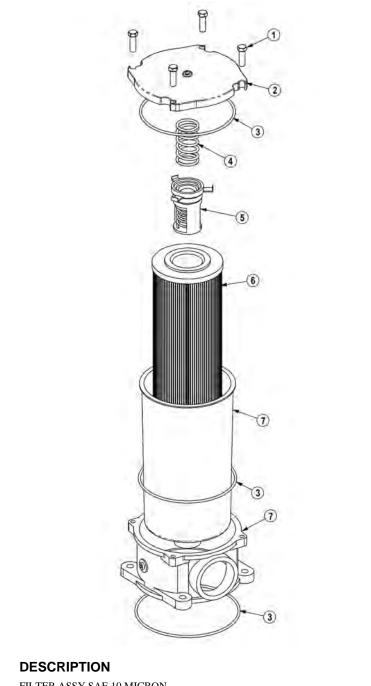
ITEM	PART NO.	QTY.	DESCRIPTION
	06504011	-	MOTOR ASSEMBLY, TRB60
	06504012	-	MOTOR ASSEMBLY, TRB50
1	22790	1	HOUSING, SEC
2	06504088	1	HOUSING, PEC
3	06504062	1	HOUSING, GEAR, TRB60
	06504089	-	HOUSING, GEAR, TRB50
4	06504090	1	SET, GEAR SHAFT
5	06504104	4	CAP SCREW, TRB60
	06504091	-	CAP SCREW, TRB50
6	06504078	2	SCREW, DRIVE
7	06504092	1	KEY
8	06504093	4	PIN, DOWEL
9	06504094	1	NAME PLATE
10	06504095	2	THRPL
11	2961940	1	PLUG, ODT
12	2962200	1	RING, SNAP
13	06504096	1	O RING
14	6T5101	1	SEAL, LIP
15	06504097	1	SEAL, LIP
16	22797	2	SEAL, SQ-R
17	06504098	4	SEAL, SIDE CHAN
18	06504099	4	SEAL, END CHAN
19	06504100	2	SEAL, BK-UP
20	06504101	1	RTNR, SEAL
21	6T5809	2	CHECK ASS'Y
22	06504102	4	WASHER
	06504103	-	SEAL KIT

FLAIL MOTOR BREAKDOWN



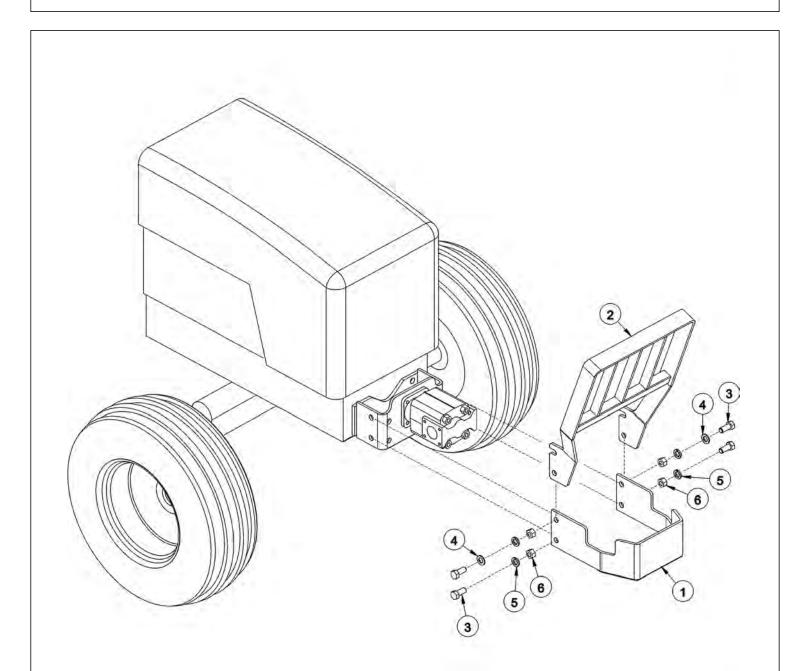
ITEM	PART NO.	QTY.	DESCRIPTION
*	06504132	-	MOTOR ASSEMBLY 350 - TBF50, TBF63
1	06504141	1	SHAFT END COVER
2	06504040	1	PORT END COVER
3	06504041	1	GEAR HOUSING
4	06504117	1	MATCHED GEAR SET
5	TF4402	1	BALL BEARING
6	06504043	4	CAP SCREW
7	06504044	2	SET SCREW
8	06504028	1	KEY
9	06504045	4	DOWEL PIN
10	*	1	NAMEPLATE
11	763759	1	THRUSTPLATE
12	2961940	1	PLUG, ODT (0.25)
13	TF4401	1	SNAP RING
14	06504142	1	LIP SEAL
15	TF4410	2	GASKET SEAL
16	06504046	4	SIDE SEAL
17	06504047	4	END SEAL
18	TF4407	2	BACK-UP SEAL
19	06504122	1	SEAL RETAINER
20	6T5809	2	CHECK ASSEMBLY
21	2961917	4	WASHER
22	06504140	1	SHAFT
23	06504139	1	BREATHER
24	06504121	1	SPACER, BRG
25	06504119	1	SNAP RING
*	06504116	-	SEAL KIT

RESERVOIR TANK FILTER ASSEMBLY



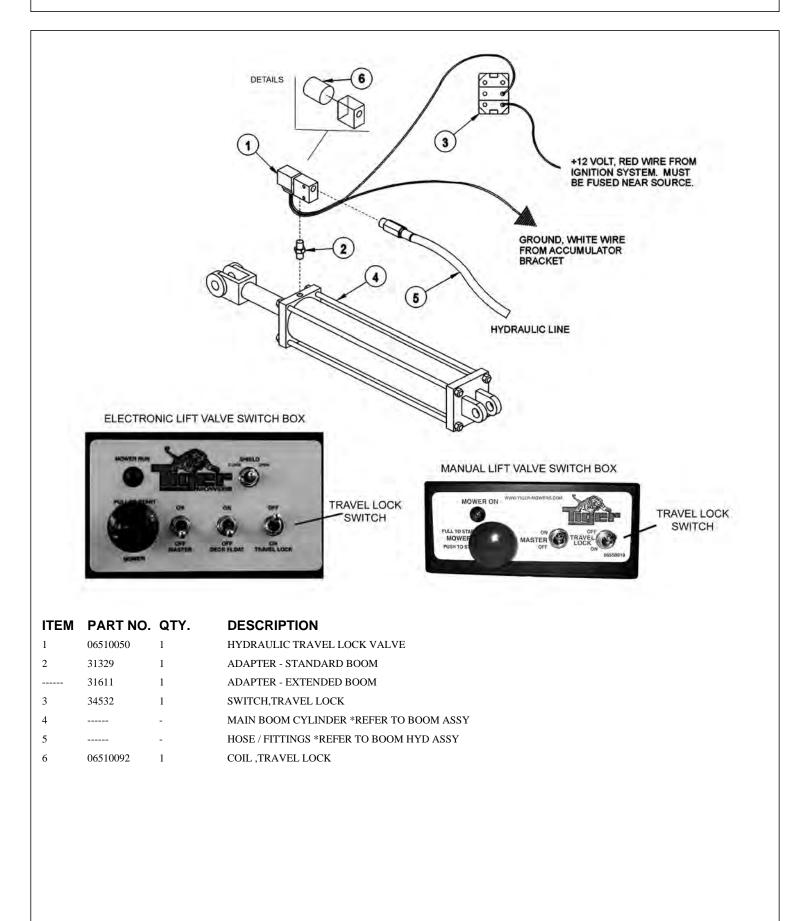
ITEM	PART NO.	QTY.	DESCRIPTION
	06505044	-	FILTER ASSY SAE 10 MICRON
1	28583	4	CAPSCREW,8MM X 25MM(1.25 PITCH)
2	06505045	1	COVER
3	06505046	1	SEAL KIT
4	06505047	1	SPRING
5	06505048	1	BYPASS
6	35259	1	FILTER,10 MIC,RETURN LINE
7	06505049	1	CAN/BODY

PUMP AND GRILL GUARD OPTIONS

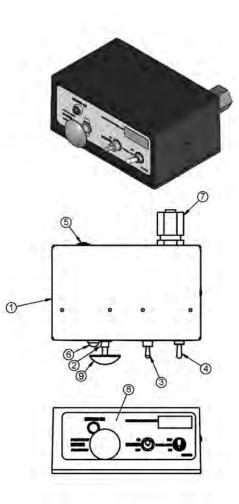


ITEM	PART NO.	QTY.	DESCRIPTION
1	32430	1	UNIVERSAL PUMP GUARD
2	32737	1	UNIVERSAL GRILL GUARD
3	21833	4	CAPSCREW,3/4" X 2-1/4",NC
4	22021	2	FLATWASHER,3/4"
5	21993	4	LOCKWASHER,3/4"
6	21825	4	HEX NUT,3/4",NC

BOOM TRAVEL LOCK

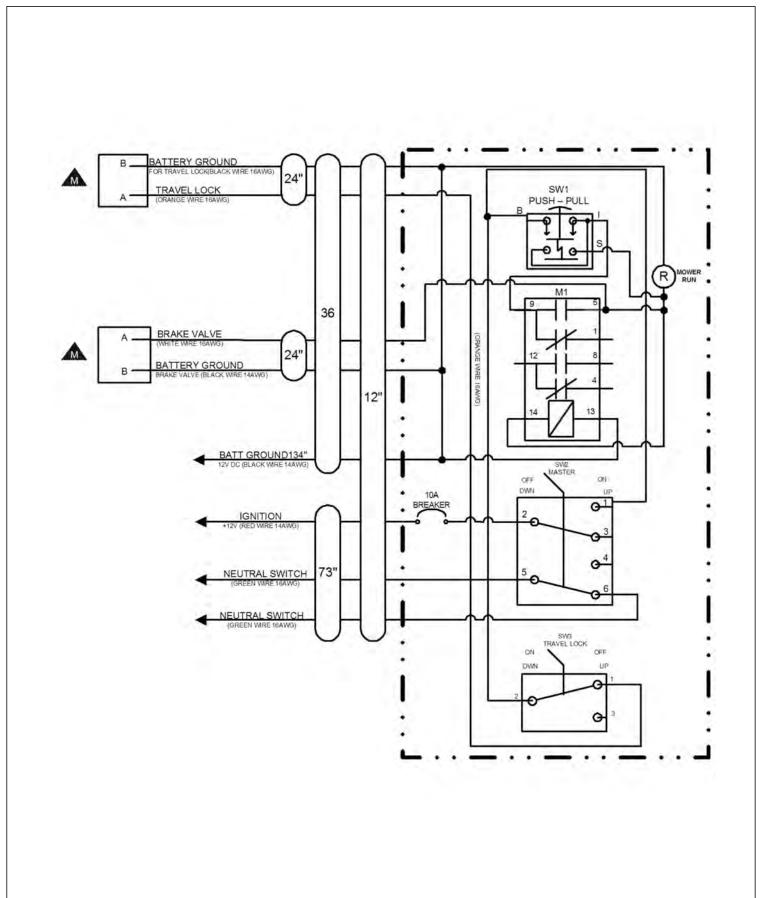


MANUAL LIFT VALVE SWITCH BOX

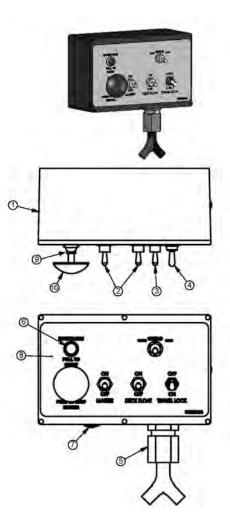


ITEM	PART NO.	QTY.	DESCRIPTION
1	06514012	1	SWBX,ALUM,BLK,06510100
2	35226	1	SWITCH, MOWER, COLEHERSEE
3	33811	1	SWITCH, MASTER/DECK FLOAT
4	34532	1	SWITCH, TRVL LCK
5	06514014	1	BREAKER,10A,SWBX
6	6T3923	1	INDICTATOR LIGHT, ON, RED
7	34540	1	STRAIN RELIEF,3/4,BLACK,NYLON
8	06550019	1	DECAL,SWTCHBX,BOOM,CG
9	02964063	1	KNOB,RED
10	35227	1	RELAY, DP, DT, 12V, LY2F, 35226



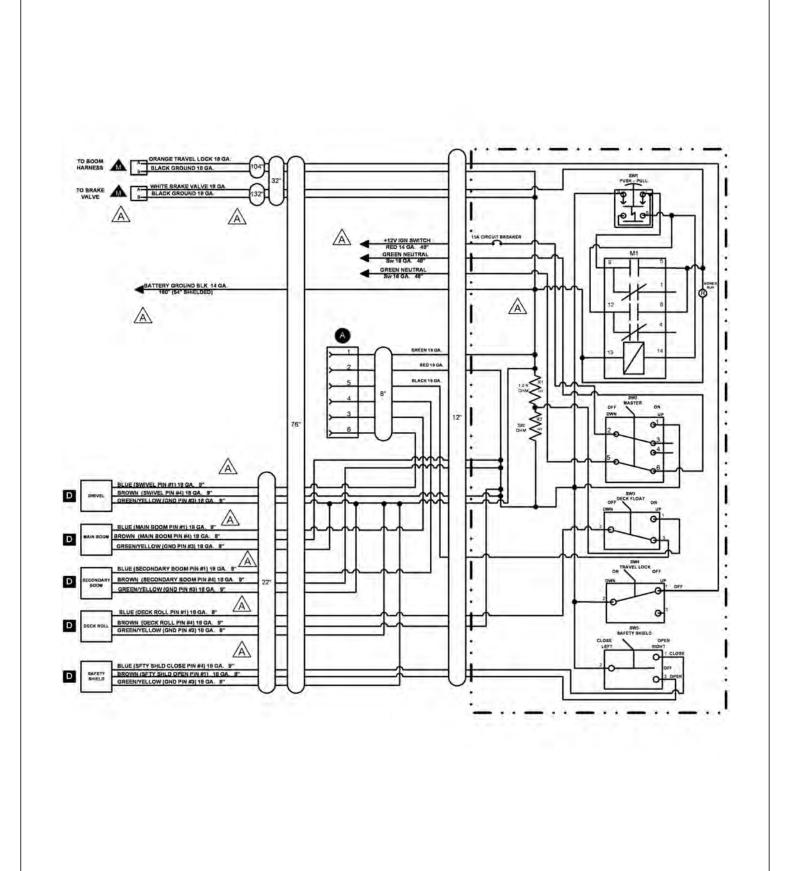


ELECTRONIC LIFT VALVE SWITCH BOX

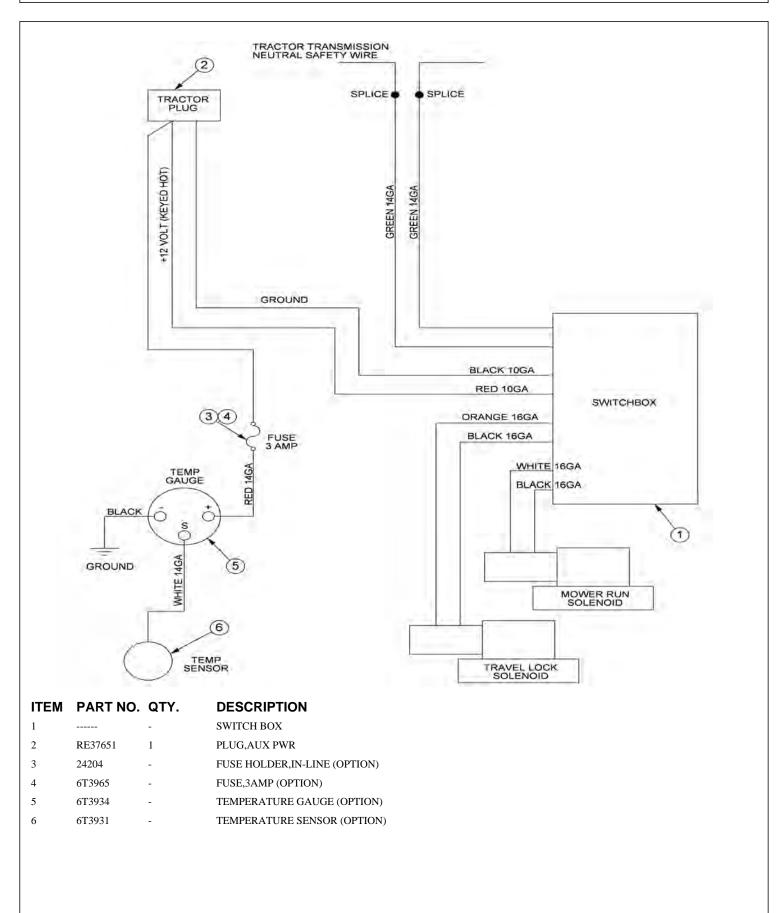


ITEM	PART NO.	QTY.	DESCRIPTION
1	06510196	1	SWBX,ASSY
2	33811	2	SWITCH, MASTER/DECK FLOAT
3	33813	1	SWITCH,SFTY SHIELD
4	34532	1	SWITCH, TRVL LCK
5	34540	1	STRAIN RELIEF,3/4",BLACK,NYLON
6	6T3923	1	INDICTATOR LIGHT, ON, RED
7	06514006	1	BREAKER,15A,SWBX
8	06550044	1	DECAL,SWBX,06510047
9	35226	1	SWITCH, MOWER, COLEHERSEE
10	02964063	1	KNOB,RED
11	35227	1	RELAY, DP, DT, 12V, LY2F, 35226

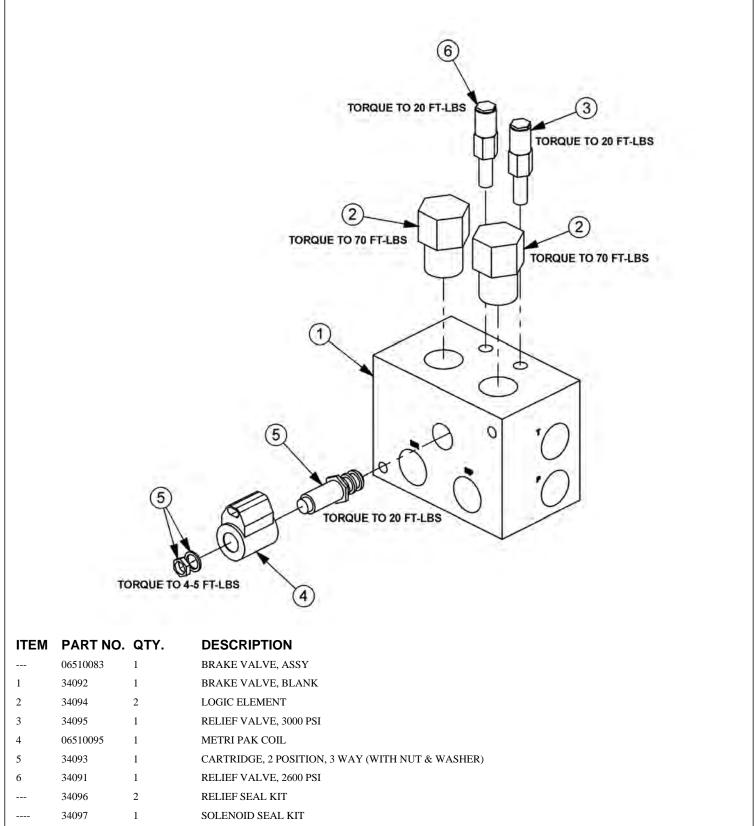
ELECTRONIC LIFT VALVE SCHEMATIC



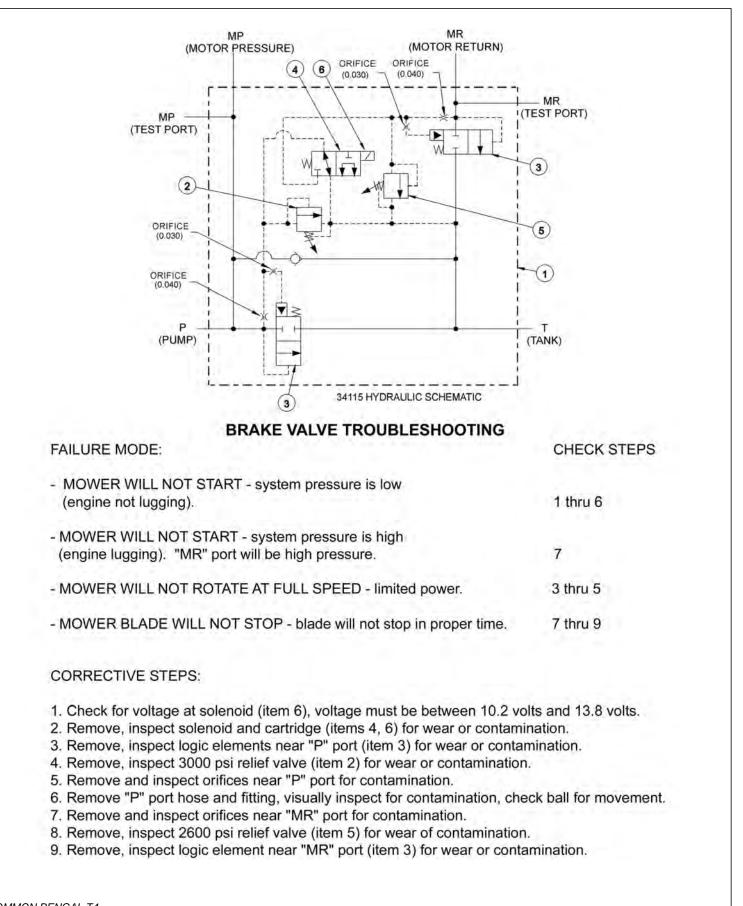
SOLENOID SWITCH BOX AND WIRING



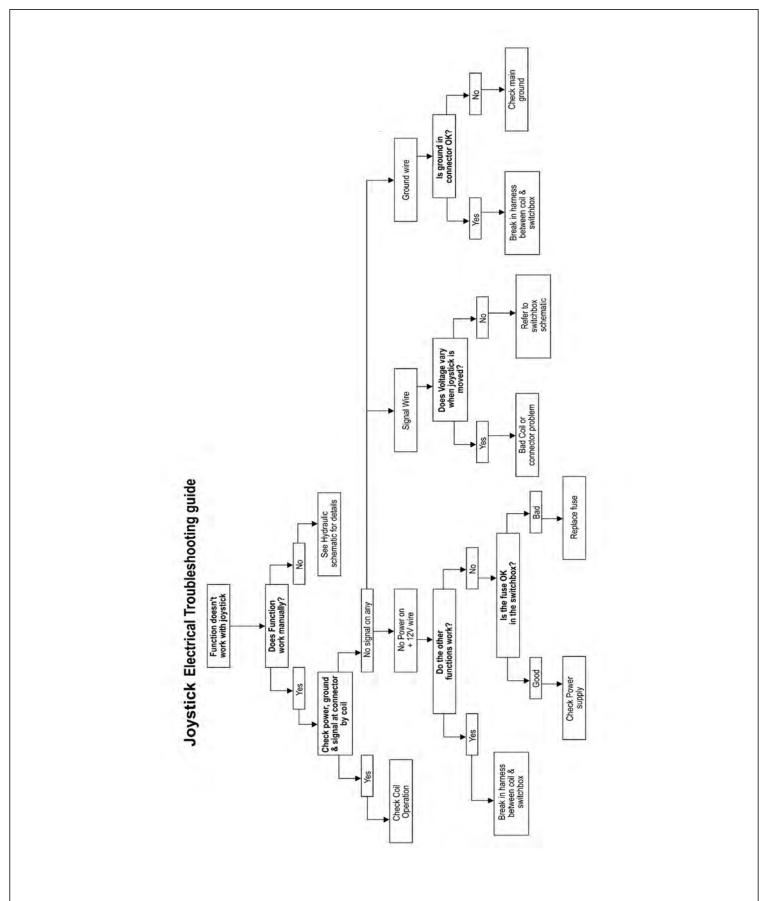
COMMON BENGAL T4

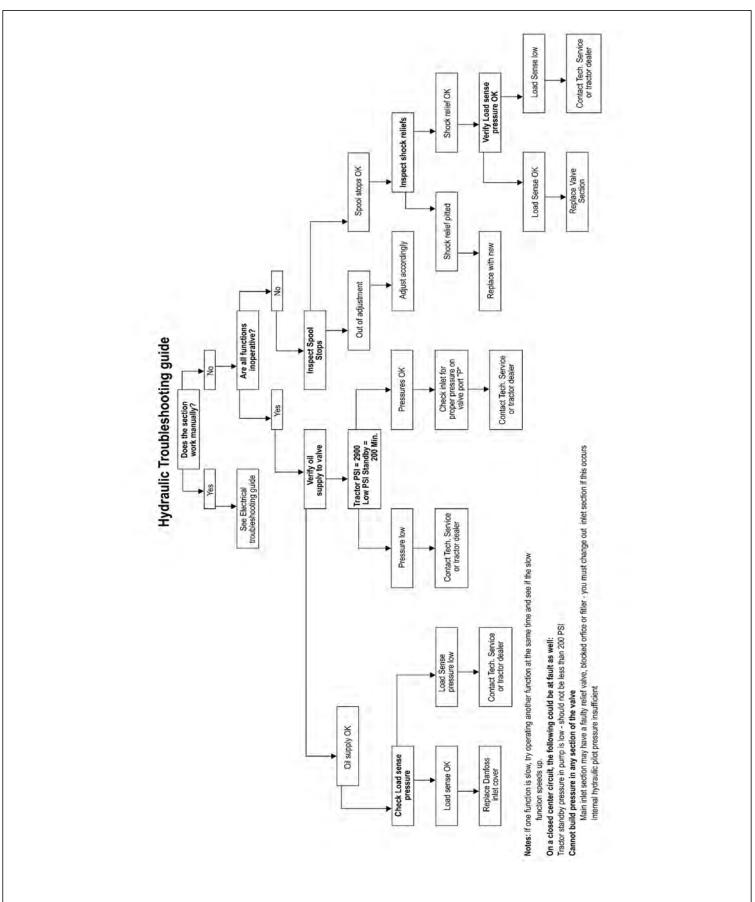


--- 34098 2 ELEMENT SEAL KIT



ELECTRICAL TROUBLESHOOTING GUIDE





HYDRAULIC TROUBLESHOOTING GUIDE

TROUBLESHOOTING

JOYSTICK TROUBLESHOOTING

Boom operation not responding to joystick movement.

Isolate hydraulic vs. electronic symptom.

Turn off electronic master switch (preventing electronic actuator on valve from attempting to hold spool in neutral position). With tractor engine running, operate the valve section with the manual handle. If function operates normally, continue with electronic inspection. If function does not operate normally, continue with hydraulic inspection.

Electronic inspection.

Connect a voltmeter to the cable connector of the valve section that is not operating. This will allow you to measure supply and signal voltage when the joystick is operated.

Main, Secondary, and Swivel Valves – signal voltage should be 50% of supply voltage with joystick in Neutral position, up to 75% of supply voltage in B direction, down to 25% of supply voltage in A direction. Signal voltage should change smoothly with lever movement. Pin #1 – Signal Voltage, Pin #4 – Power Voltage, Pin #3 – Ground

Deck Roll Valve or Float Valve – signal voltage should be 50% of supply voltage with joystick in Neutral position, up to 65% of supply voltage in B direction, down to 35% of supply voltage in A direction. Signal voltage should change smoothly with lever movement. Signal voltage should be approximately 75% of supply voltage when float switch is operated. Pin #1 – Signal Voltage, Pin #4 – Power Voltage, Pin #3 – Ground

Shield Valve or On/Off Valve – Voltage on pin #1 should be equal to supply voltage when switch is operated in A direction. Voltage on pin #4 should be equal to supply voltage when switch is operated in B direction.

Pin #1 – Signal Voltage (Shield Open), Pin #4 – Signal Voltage (Shield Close), Pin #3 – Ground

If none of the valve will operate with electrical signal, verify that there is oil pressure at the valve inlet. Electrical Valves must have pilot supply oil to move the spools.

Possible electronic problems.

Open circuit (broken wire, bad connection or loose connection in switchbox). Shorted to positive, ground, or other. Incorrect voltage signal from joystick.

Continued on next sheet

Hydraulic inspection.

Install 3 pressure gauges, on the valve inlet (use M port, or tee into hose supplying oil from the pump to the inlet), on the workport that is not operating, and on the LS port.

With the spools in Neutral

Gear pump – P should be approximately 200 psi, LS = 0, workport – pressure on cylinder or function.

LS pump – P should equal pump standby pressure, LS = 0, workport – pressure on cylinder or function.

Pressure Comp pump – P should equal pump standby pressure, LS = 0, workport – pressure on cylinder or function.

Gear pump – P should be approximately 200 psi higher than LS, LS should equal workport, workport – pressure on cylinder or function.

LS pump – P should be LS + standby, LS should equal workport, workport – pressure on cylinder or function.

Pressure Comp pump – P should equal pump standby pressure, LS should equal workport, workport – pressure on cylinder or function.

Operate one spool, measure pressures with function at end of travel or stop

Gear pump – P should equal valve relief setting or workport shock valve setting. LS should equal workport. Workport should equal relief setting or workport shock valve setting.

LS pump – P should equal valve relief setting, pump max pressure setting, or workport shock valve setting. LS should equal workport. Workport should equal relief setting, pump max pressure setting, or workport shock valve setting.

Pressure Comp pump – P should equal pump standby pressure, LS should equal workport. Workport should equal pump standby pressure or workport shock valve setting.

Operate more than one spool.

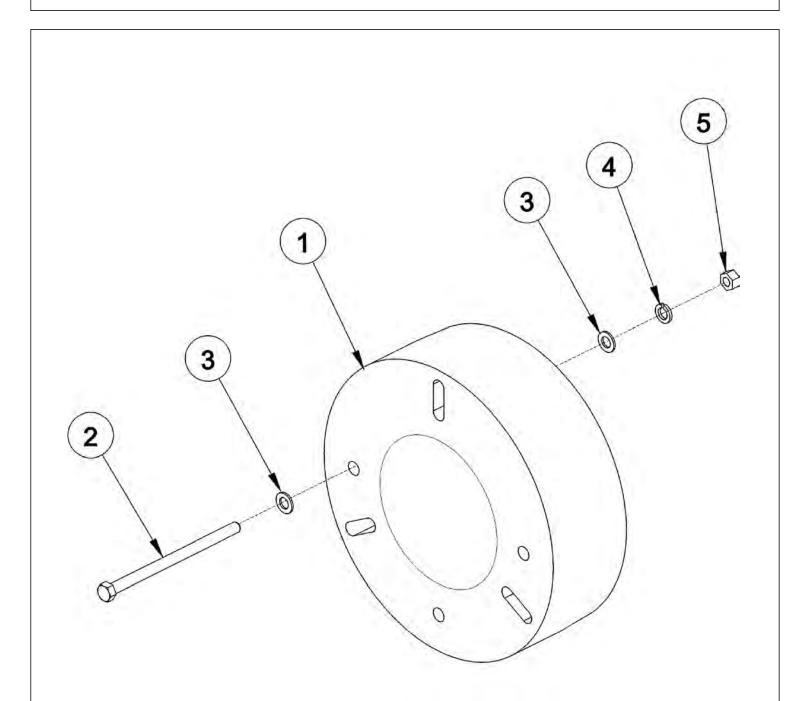
Gear pump – P should approximately 200 psi higher than LS. LS should equal highest workport pressure. Workport – pressure on cylinder or function. LS pump – P should be LS + standby pressure. LS should equal highest workport pressure. Workport – pressure on cylinder or function. Pressure Comp pump. P should equal pump standby pressure. LS should equal highest workport pressure. Workport – pressure on cylinder or function.

Possible hydraulic problems.

Cylinder leak.

LS signal leaking to tank before reaching pump LS port. Hydraulic system or pump not supplying flow to valve.

WHEEL WEIGHT - BENGAL 18



ITEM	PART NO.	QTY.	DESCRIPTION
1	30687	1	500# WHEEL WEIGHT
2	21956	4	CAPSCREW,3/4" X 13",NC
3	22021	8	FLATWASHER,3/4"
4	21993	4	LOCKWASHER,3/4"
5	21825	4	HEX NUT,3/4",NC

WARRANTY SECTION

Warranty Section 7-1

•

WARRANTY INFORMATION

Tiger Corporation, 3301 N. Louise, Sioux Falls, South Dakota, warrants to the original Retail Customer, the new Tiger equipment is free of defects in material and workmanship. Any part of equipment that in Tiger's judgement, show evidence of such defects will be repaired or replaced without charge, provided that the failure of part(s) shall have occurred within twelve (12) months from the date of delivery of said equipment to the Retail Customer. Expendable components such as knives, oil, chain sprockets, skid shoes, knife mounting disks and the like are excluded but not limited to this warranty.

The Retail Customer must pay the transportation cost to and from the Tiger Dealer's service shop for warranty service. Warranty service will be performed by the Tiger Dealer from whom the equipment was purchased, during service shop regularly scheduled days and hours of operation.

All Tiger obligation under this warranty shall be terminated if the equipment is modified or altered in ways not approved in writing by Tiger, if repair parts other than genuine Tiger repair parts have been used, or if the equipment has been subject to misuse, neglect, accident, improper maintenance or improper operation.

Tiger Corporation reserves the right to make improvements in design or changes in specification at any time without incurring any obligation to owners of equipment previously sold.

No agent or person has authority to alter, add to or waive the above warranties which are agreed to be in the only warranties, representations or promises, expressed or implied, as to the quality or performance of the products covered and which do not include any implied warranty of merchantability or fitness. In no event will Tiger be liable for incidental or consequential damages or injuries, including, but not limited to, loss of profits, rental or substitute equipment or other commercial loss.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE EXPRESSED HEREIN.

It is the Purchasers obligation to sign the warranty registration form **AFTER** he / she has Read and Understands the Operation and Safety Instructions stated within this manual.

ONE LAST WORD

This manual cannot possibly cover all of the potentially hazardous situations you will encounter. By being familiar with the safety rules, operating and maintenance instructions in this manual you can help prevent accidents. The objective of this manual is to help make you a better operator. Remember, **SAFETY IS YOU!**



Your safety and the safety of those around you depends on **YOU**. Common sense should play a large role in the operation of this machine.

Since we at Tiger Corporation are constantly striving to improve out products, we reserve the right to change specifications or design at any time.

TO THE OWNER / OPERATOR / DEALER



To keep your implement running efficiently and safely, read your manual thoroughly and follow these directions and the Safety Messages in this manual and on the machine. The table of contents clearly identifies each section where you can easily find the information you need.

The Occupational Safety and Health Act (OSHA 1928.51 subpart C) makes the following minimum requirements for tractor operators.

OWNER REQUIREMENTS:

- 1. Provide a Roll-Over-Protective Structure that meets the requirements of this Standard; and
- 2. Provide Seatbelts that meet the requirements of this Standard and SAE J3C; and
- 3. Ensure that each employee uses such Seatbelt while the tractor is moving; and
- 4. Ensure that each employee tightens the Seatbelt sufficiently to confine the employee to the protected area provided by the ROPS.

OPERATOR REQUIREMENTS:

- 1. Securely fasten seatbelt it the tractor has a ROPS.
- 2. Where possible, avoid operating the tractor near steep ditches, embankments, and holes.
- 3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
- 4. Stay off slopes too steep for safe operation.
- 5. Watch where you are going especially at row ends, on roads, and around trees.
- 6. Do Not permit others to ride.
- 7. Operate the tractor smoothly no jerky turns, starts, or stops.
- 8. Hitch only to the draw-bar and hitch points recommended by the tractor manufacturer.
- 9. When the tractor is stopped, set brakes securely and use park lock, if available



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