



G5 6 9 F '6 CCA
5 GG9 A 6 @9 G

JD6140-50M/R

Current as of 1/14



PARTS LISTING WITH
MOUNTING AND OPERATING
INSTRUCTIONS

Hj[Yf' 7 cfdcfU]cb
3301 N. Louise Ave.
Sioux Falls, SD 57107
%, \$\$, (' !*, (-
%* \$)!' ' * !+- \$\$
k k k 'h] Yf!a ck Yfg'Wca

\$* \$%/\$%

HC 'H<9 'CK B9F '#CD9F5HCF '#895 @F

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

69: CF9 'MCI 'GH5FH° Read the safety messages on the implement and shown in this manual. Observe the rules of safety and use common sense!

F958 '5B8 '1 B89FGH5B8 'H<G'A5BI 5 @'BcbE9b['jg\ 'gdYU]b['cdYfUrcfg'k]''bYYX'hc'; 9H H<9 'A5BI 5 @HF5BG@H98 'Ug'bYYXYX°



DANGER

FAILING TO FOLLOW SAFETY MESSAGES AND OPERATING INSTRUCTIONS CAN CAUSE SERIOUS BODILY INJURY OR EVEN DEATH TO OPERATOR AND OTHERS IN THE AREA.

<p>1.</p>	<p>2. NO RIDERS. NO CHILDREN OPERATORS.</p>	<p>3. USE SAFETY SHOES, HARD HAT, SAFETY GLASSES, SEAT BELTS, ROPS & OPS</p>	<p>4. BLOCK UP SECURELY BEFORE WORKING UNDER.</p>
-----------	---	--	---

1. Study and understand Operator's Manuals, Safety Decals, and Instructional Decals for tractor and implement to prevent misuse, abuse, and accidents. Practice before operating in a confined area or near passersby.
 ● Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children

2. Allow no children on or near folding mower or tractor. Allow no riders on tractor or implement. Falling off may cause serious injury or death from being run over by tractor or mower or contact with rotating blades.

3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seat belt securely fastened to prevent injury and possible death from falling off or tractor overturn.
 ● Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, & Ear Plugs are recommended.

4. Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted component to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain area is clear before lowering or folding

5. Before transporting, put Lift Lever in detent or full-lift position. Install Transport Safety Devices securely on folding mowers. Put Booms securely in Transport Rest.
 ● Folding and Boom Mowers have raised center of gravity. Slow down when turning and on hillsides.

6. Make certain that SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.

7. Never operate with Cutting Head or Folding Section raised if passersby, bystanders, or traffic are in the area to reduce possibility of injury or death from objects thrown by Blades under Guards or mower structure.

8. Before dismounting, secure implement in transport position or lower to ground.
 ● Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent crushing by entanglement in rotating parts which could cause injury or death.
 ● Never mount or dismount a moving vehicle. Crushing from rollover may cause serious injury or death.

<p>5. TRANSPORT SAFELY, LOCK UP.</p>	<p>6. USE SMV, LIGHTS, & REFLECTORS.</p>	<p>7. DO NOT OPERATE WITH CUTTER OR WING RAISED.</p>	<p>8. DO NOT MOUNT OR DISMOUNT WHILE MOVING.</p>
--------------------------------------	--	--	--

02967827

Y cttecpv\ 'Kphqto cvkq<"Tgcf "cpf "wfp gtucpf "j g'eqo r ngv'Y cttecpv\ 'Ucvgo gpv'hqwpf 'kp 'j ku'o cpwci0''Hkn'qww'j g Y cttecpv\ 'Tgi kucv'kq'hqto 'kp'hwn'cpf'tgwt'k'y kj kp'; 2'f c{ u0'O cng'egt'c'p'j g'Ugt'kcn'P wo dgt'qh'j g'b cej kpg'ku tgeqtf gf'qp'j g'Y cttecpv\ 'Ectf.'cpf'hqto 'j cv'{qwt'gckp0

FORWARD

This manual contains information about many features of the Tiger mowing and roadside maintenance equipment. Some of these include: Safety precautions, Assembly instructions, Operations, Maintenance and Parts. This manual will also assist you in the proper break-in, daily care, and troubleshooting of your new mower.

We recommend that you read carefully the entire manual before operating the unit. Also, time spent in becoming fully acquainted with its performance features, adjustments, and maintenance schedules will be repaid in a long and satisfactory life of the equipment.

Troubleshooting - Please, before you call, help us to help you!

Please look at the equipment to observe what is happening, then:

- Classify the problem
 - Hydraulic, electrical or mechanical - Read the trouble shooting section
 - Tractor or Truck chassis - Contact vehicle dealer

- If unable to correct the problem yourself, contact your local Tiger Dealer after gathering:
 - Machine model _____
 - Serial number _____
 - Dealer name _____
 - Detailed information about the problem including results of troubleshooting

Attention Owner / Operator / Dealer: It is your obligation to read, and understand, the warranty information section located at the back of this manual denoting that the purchaser understands the safety issues relating to this machine and has received and will read a copy of this manual.

If at any time, you have a service problem with your Tiger mower, Contact your local dealer for service and parts needed.

MANUFACTURED BY:

Tiger Corporation

3301 N. Louise Ave.

Sioux Falls, SD 57107

1-800-843-6849

1-605-336-7900

www.tiger-mowers.com

DISTRIBUTED BY:

1- _____ - _____ - _____

1- _____ - _____ - _____

TABLE OF CONTENTS

SAFETY SECTION_____	1
ASSEMBLY / MOUNTING SECTION_____	2
OPERATION SECTION_____	3
MAINTENANCE SECTION_____	4
PARTS SECTION_____	5
COMMON PARTS SECTION_____	6
WARRANTY INFORMATION_____	7



1012

This symbol means:

CAUTION – YOUR SAFETY IS AT RISK!

When you see this symbol, read and follow the associated instructions carefully or personal injury or damage may result.

Tiger is a registered trademark.



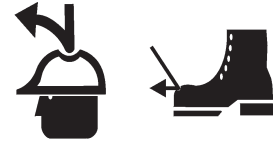
G5 : 9HM

G5 : 9HM
G97 HCB

G5 : 9HM



K 5FB-B; ° V@Á] ^!æ; íÁæ áÁæ|Á~]] [!óÁ!·{}} ^|Á @~ |áÁ ^æÁæáÁæ É
 •æ^c Á @ ^° Éææc Á |æ°·° Éææ áÁ| [] ^|Á @ææ * Á | [c & c] Áææ|
 cæ ^° Á | Á | [c & c] Á | [{ Á b | ^ Á & ~ áá * Á b | ^ Á | [{ Áæ { • Á @ [, } Áæ
 @ Á ~ á { ^ } cÉ



75I HCB° DFC@B; 98 9LDCGI F9 HC° CI 8 BC-G9 A5M75I G9 D9FA5!
 B9BH<95F-B; °CGG°° Viæd í·Á æóÁ íÁ æó~ óæ ÁQ] | { ^ } óæÉ
 ææ@ áÁææ Á c·) Á ^ Á [ä ^ Á] [~ * ÓÁ Áæ°·Á ^ | { æ ^ } óæææ * Á ··É
 Y ^ Á & { { ^ } áÁææ [~ Áæ æ·Á ^æÁæææ * Á | [c & c] Áæ@ Á [ä ^ Á
 @ Á] ^!æ; íq Á [·ææ] Á c & ^ á·Á ÉæáÉæ [ä ^ Á c ^ | Á í ááÁ c ^ | Áæ Á c É
 c) ááÁ ^ | áá Á Áæ ^ Á æ | Áæ°·Á ^ c ^ | Á @ææ * Á ··Éæ [ä ^ Á c ^ | Á Éæá
 ææææ } óÁ Á @ Á] ^!æ; íÁ c ^ | Áæ Á c c) ááÁ ^ | áá Á Áæ ^ Á æ | Áæ°·Á
] ^ | { æ ^ } óÁ íÁæ æÁæææ * Á ··Éæ [c ^ | Áææææ * Á ··Á | { Á ~ áÁ [ä ^
 Z [{ Áæd í·Éæææ Áæ·Éæææ·Éææ áÁ @ | Á ~ & @ [~ | & ·Á | ·Á Áæ @
 ^æææ Áæ { ~ |ææ ^ Á c ^ | Áæáæáæ ^ Á æó~ óæ] ^ Á ^ æ | æÁ & c ^ | ÁÉ



K 5FB-B; ° Viæ·] [!óÁ] | ÁæÁææÁ ^ á·ÉæU ^ | á·Áææææ c·Áæ áÁ b | á·
 &ææ Á ^° | óÁ [{ Á] ^!ææ * Á @ Á ~ á { ^ } óæÁ } ·æ^Á ^ á·É
 W á ^ ·ææ áÁ @ Á ^!æd íÁæ áÁQ] | { ^ } óæ áÁQ, ÁÁææ áÁ·Áæ^ | ^
 dææ } [!óÁ * Á } Á d ^ ^ c Áææ áÁæ @ æ·Éææ æ Á ^ | Á @ Á Viæd í·
 ·c ^ | áá * Áæ áÁææ ^° Áæ ^ Á Á [[áÁæ] ááæ } Áæ áÁ] ^!ææ Á | [] ^ | É
 6 YZ:fY HfUbgdcfHj]b['H YHfUWcf 'UbX'æ d'Ya YbZXYHfa]bY
 H Y'gUZ' HfUbgdcfHgdYYXg'Z'f'nci 'UbX'H Y'Yei]da Ybh' 'A_U_Y
 gi fY'nci 'UW]XYVmiH YZ'`ck]b['fi `Yg.



% H YghH Y HfUWcf 'UuU'g'ck `gdYYX'UbX']bWYUgY'H Y'gdYYX'g'ck `mI
 5 dd`miH Y'VfU_Yg'ga cch `mhc'XYHfa]bY'H Y'gltdd]b['W UfUWYf]gH]Wg
 cZH Y HfUWcf 'UbX'æ d'Ya Ybh'°° 5 g'nci]bWYUgY'H Y'gdYYX'cZH Y
 HfUWcf 'H Y'gltdd]b['X]gHUbW']bWYUgYg'°° 8 YHfa]bY'H Y'a U]a i a
 gUZ' HfUbgdcfHgdYYX'Z'f'nci 'UbX'H]g'Yei]da Ybh'

&" V·ó@Á~ á { ^ } óææÁ [, Á] ^ ááÁ Á } ·Éæ & ^æ Á @ Á ^ á
 @ [~ * ÓÁ Á c } Á] | Áææ | Á [~ Á c ^ | { á ^ Áææææ Áææ Áæ Á] ^!ææ
 ææÁæ @ | Á] ^ ááÉæ ^ Á c d ^ { ^ Áæ ^ Áæ áÁ ^ á· & Á [~ | Á] ^ á
 , @ } Á } á * Á @æ] | Áæ Á ^ c ^ } ó@ Á ^!æd íÁæ áÁQ] | { ^ } óÁ [{
 c } á * Á c ^ | Éæ c ^ | { á ^ Á @ Á ææ { Áææ Á } á * Á] ^ áÁ | Á [~
 æ áÁ @ Á ~ á { ^ } óæ^ | ^ Á] ^!ææ * Á } Á [ææ Á | Á ^ c ^ } Á | [~ } áÉ



' " U] | Áæ·] [!óÁ] | ÁæÁææÁ ^ á·ÉæU ^ | á·Áææææ c·Áæ áÁ b | á·
 @æ ^ Á c ^ | { á ^ Áææ Áææ Áæ áÁ @ & @æ [, Á [~ Áæ Á | [] ^ | ^
 & } d [| Á @ Á ~ á { ^ } cÉ

6 Y Uk UfY'cZH Y'cdYfU]b['W'bx]Hjcbg'°° 8 c'bhcdYfUH'H Y'HfUWcf
 k]h 'k YU_ 'cf'ZU 'hmVfU_Yg'°° K \ Yb'cdYfU]b['Xck b'U] 'cf'cb'k Yh
 cf'fU]b'g']W_ 'fcUXgZ'H Y'VfU_]b['X]gHUbW']bWYUgYg.'i gY'YI HfYa Y
 WUfY'UbX'fYXi W'nci f'gdYYX'°° K \ Yb'cdYfU]b[]b'fUZ]WUk Ung'i gY
 H Y'HfUWcf]ZUg]b['k Ufb]b[°] [\ hg'UbX'fYXi W'nci f'gdYYX'°° 6 Y
 Uk UfY'cZH UZ]WUfci bX'nci 'UbX'k UW 'ci hZ'f'H Y'cH Yf [i nI °° °: 1% L

G5 : 9HM



K 5FB-B; ° P^ç^!Áæc{] óŹ Á` à!ææ^Éæb • cŹ!Á^ { [ç^Á æ^!æÁ [{ Á@
 Q] | { ^ } ç Ź Á^ Á^ Á [ç } Á!Á ç^!Áæç!Á } * ç^Á^ Á } } ç * ÉÁ æ^
 • ~!^Á@Áæç!Á } * ç^Á^ É : Á^!^Á [\ ç * Á } Á@ÁQ] | { ^ } çÉ
UI /42+



K 5FB-B; ° Ú!ç áæç!Á ç •] ^ & ç!Á [ç ç * Á æ ç Á!Á ^ æ ç áÁ^ | æ^Á @ }
 } ^ & • • æ^ Á æ ç ç | á^ áÁ^! ç æ^ Á æ ç ÉÁ [\ Á!Á [• ^ Á æ ç } ^! • É
 , [] Á!Á! [\ ^ } Á æ ç É ç áÁ^ æ^ Á!Á [• ^ Á æ ç * ÉÁ æ^ Á^!^ Á ç
 æ^ Á! [] ^! Á^ & !^ áÉÁ^! ç • Á ç!^ Á æ^ Á & !Á! [{ Á [ó ç æ ç ç ç *
 ç Á æ ç ^ Á Á [[áÁ [\ ç * Á!^!ÁÉ /43+



K 5FB-B; ° ÇŹ æ^ Á^ æ^ Á^ ~ | ^ Á ç áÁ! {] | Á^ | Á^ æ ç Á^ æ^ æ ç!^! • Á^ • ç^ & É
 ç } • Á @ } Á ç ç á! ç * Á ç! [| ç^ } ç!^ ç } • ^! • É ç áÁ^ ^ Á ç!^! ç { æ ç
 æ^ } çÁ /44+



85B; 9F° P^ç^!Á^ } Á@Áæç!Á } * ç^Á^ Á^ Á^ | • ^ áÁ^ ç ç * Á!Á æ ç^ ç^ æ^ ~ æ^
 ç^ } ç æ ç } ÉÁ @ Á ç ç • ç^ { ^ Á ç ç Á^ Á ç ç æ ç!^ • Á! Á [^ Á ç ç ç
UI /45+



85B; 9F° SÒÙÁÉY ÇÉÁÜÜT ÁUUVÇ/Ç ÕÁÒSÒT ÒP-VUÁÉ Á!^ç^ } ó } ç ç * | { ^ } ç
 ç áÁ! • • ç!^ Á^! ç • Á ç!^ Á!^ æ çÉ
UI /46+



85B; 9F° P^ç^!Á^ | , & ç!^ } Á! Á! æ^ Á! Á! Á! ~ } áÁ! æ ç! Á! ÁQ] | { ^ } ç! ç!^! }
 & ç Á! ç! Á! Á! ~ Á@Á^ ç { ^ } ç ç áÁ^ Á ç!^ Á! ç!^ Á! ç!^! } Á! }
 & ç • ^ Á@ÁQ] | { ^ } ç! Á ç! Á! Á! ~ • ç * Á@ { • ^ ç^ Á! Á! ç!^! }
UI /47+

G5 : 9HM

K 5FB-B; °



Ò} * ã ^ Á Ò @ æ • c Ä [{ ^ Á Á Á & } • c ä ^) • É æ á Á & \ c æ Á & {] [] ^ } • Á & } c æ Á ! Á { ä
& @ { æ æ Á } [, } Á Á @ Á c æ Á Á Ö æ ä ! } æ Á Á æ • ^ Á æ & ! Á æ á Á ä c @ Á ! Á c @ ! Á ^ ! [ä ~ & c ä ^
æ { É

K 5FB-B; °



Ó æ c ! ^ Á [• • É c ! { ã æ Á æ á Á ^ | æ ^ á Á æ & • • [! ä • Á & } c æ Á ^ æ á æ á Á ^ æ á Á {] [~ } á • É
& @ { æ æ Á } [, } Á Á @ Á c æ Á Á Ö æ ä ! } æ Á Á æ • ^ Á æ & ! Á æ á Á ä c @ Á ! Á c @ ! Á ^ ! [ä ~ & c ä ^
æ { É Á Á K U g \ \ U b X g \ U z h y f \ \ U b X] b [°

V ä ^ ! Á [, ^ ! • Á • ^ Á æ æ & á Á æ á Á æ æ @ á Á ^ • c { Á & {] [] ^ } • Á ! Á | æ á Á æ á Á • É | æ á • É æ c ! É
• @ æ É } ä ^ • É } ä ^ Á @ * ^ ! • É [| ^ ! • É | ä ^ É æ Á & {] [] ^ } • Á æ á Á æ á * • É Á @ • ^ Á æ • Á æ ^ Á æ á Á æ á
c • c á Á Á á ^ ! Á] ^ á æ æ æ } • É Á [] É ^ } ä ^ Á g o ä ! Á ä Á æ • Á [Á &] • ä c } ä ^ Á ^ Á @ • ^ Á] ^ á æ æ æ } • É
V @ Á • ^ Á Á g o ä ! Á ä Á æ • Á æ á Á ^ & Á [, ^ ! Á ^ ! f ! { æ & É [ä Á [, ^ ! Á æ ! æ c • Á æ á Á ! ^ • ^ } c á æ c
æ æ á É Á ^ Á ^ } ä ^ Á á ^ ! Á [, ^ ! Á æ • Á ! Á &] [{ ^ Á æ á Á æ c É



G99 'MCI F'' '895 @F

æ ' U X X] h j c b ' t c ' ð Y X Y g [[b ' U b X ' V t b z [[i f U h j c b ' c Z h] g ' a d ' Y a Y b l z ' b W i X] b [' G U Z Y m i G [[b g ' U b X ' G U Z Y m
9 e i] d a Y b l z \ U n U f X ' V t b l f c ' ' U b X ' U W W X Y b h d f Y j Y b h j c b ' U f Y ' X Y d Y b X Y b h i d c b ' ð Y ' U k U f Y b Y g g z
V t b W f b z d f i X Y b W z U b X ' d f c d Y f ' f U j b] b [' c Z d Y f g c b b Y '] b j c ' j Y X ' b ' ð Y ' c d Y f U h j c b z f U b g d c f l z
a U j b h Y b U b W z U b X ' g l c f U [Y ' c Z h Y ' a U W] b Y ' ' F Y Z y f ' U g c ' t c ' G U Z Y m i A Y g g U [Y g ' U b X ' c d Y f U h j c b
] b g f i W h j c b ' j b ' Y U W ' c Z h Y ' U d d f c d f] U h ' g Y W h j c b g ' c Z h Y ' H f U W c f ' U b X ' 9 e i] d a Y b h A U b i U g ' ' D U m
W c g Y U h Y b h j c b ' t c ' ð Y ' G U Z Y m i G [[b g ' U z l] Y X ' t c ' ð Y ' H f U W c f ' U b X ' 9 e i] d a Y b h A U b i U g ' ' D U m

G5 : 9HM

DANGER

CUTTING BLADES



THROWN OBJECTS



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.

ÚĀĪVĀPUE
ŠUŌĀVQIP

€GĪĪĪĪ
ÁÁÁÁÁ UY ŌÜĀŌŌS

€GĪĪFFGH
ÁÁÁÁÁ PŸŌÜĀVŠŌVĀĀP S

 **CAUTION**
WATCH YOUR
STEP
03200285

€HGEEĠĪ
ÁÁÁÁÁ WŪŌŌÁJŌĀŌŌ

POLYCARBONATE
WINDOW
REFER TO OPERATORS MANUAL
FOR CLEANING INSTRUCTIONS

GGĪĪĪ
ÁÁÁÁÁ ŪŌŌÁJŌĀŌŌ

DO NOT LUBRICATE WITH AUTOMATIC
GREASE GUN. GREASE WITH HAND
GREASE GUN ONLY.
P/N22839

GGĪĪHJ
ÁÁÁÁÁ UY ŌÜĀŌŌS

G5 : 9HM



ÚĀĪVĀUĒ
ŠUŌĀUŌP

GG I €
ÁÁÁP ÛŌŌÁUŌÁŌĀ



G €Ā
ÁÁÁT UY ŌŪŌŌŌS

Ġ Ĥ Ī
ÁÁÁP ÛŌŌÁUŌÁŌĀ



F€+ÁĒ+ ĤÍ GG
T UY ŌŪŌŌŌSĒT ŌP ÁŌUUT
FĪ ĒĪ +Á€+ ĤÍ GH
PŸŌŪŌŌŌŌÁŌP S

G5 : 9HM

DANGER

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.

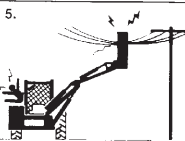
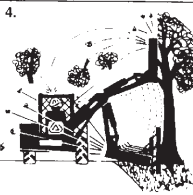
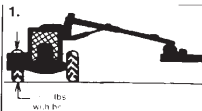
3. REAR-MOUNTED BOOM MOWERS MOVE CENTER OF GRAVITY TO THE REAR AND REMOVE WEIGHT FROM FRONT WHEELS. ADD FRONT BALLAST UNTIL AT LEAST 20% OF TRACTOR'S WEIGHT IS ON FRONT WHEELS TO PREVENT REARING UP, LOSS OF STEERING CONTROL, AND POSSIBLE INJURY.

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.

6. 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



ÚČEŇVÁUÈ
ŠU ÔCE/QP

HĜ Ę
ĂŦ ŸÖÜCEVŠÔĂCE S

ATTENTION
**SERVICE HYDRAULIC SYSTEM
WITH UNIVERSAL TRACTOR
HYDRAULIC OIL.**

32708

HĜ Ę
ĂŦ ŸÖÜCEVŠÔĂCE S

CAUTION

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

32709

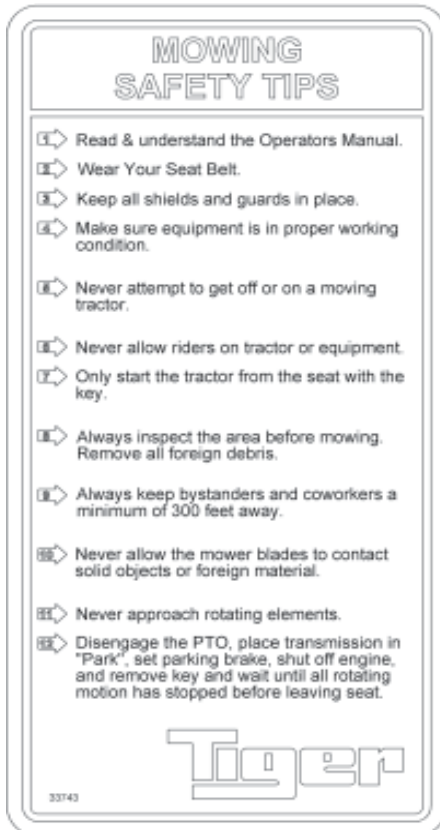
HĜ Ę
ĂŦ ŸÖÜCEVŠÔĂCE S

G5 : 9HM

ÚČEŇVÁUÈ
ŠŮŌŒ/WP



HÍ FG
ÁÁÁÁ ÚŮŌÁUŮÁŌŒŌ

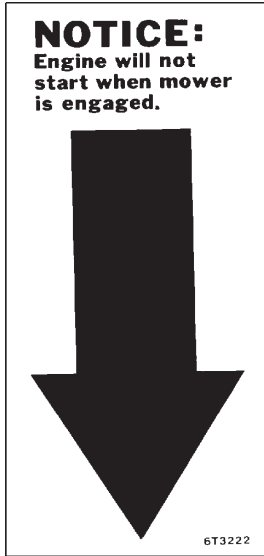


HÍ I H
ÁÁÁÁ ÚŮŌŌÁUŮÁŌŒŌ



I GH €
ÁÁÁÁ UY ŮŮÁŌŒŌ

G5 : 9HM

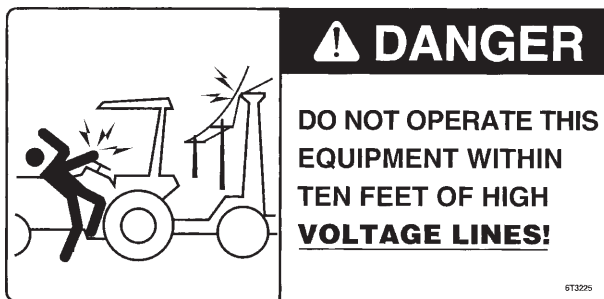


ÚČEŇVÁUÈ
ŠUÔCE/QP

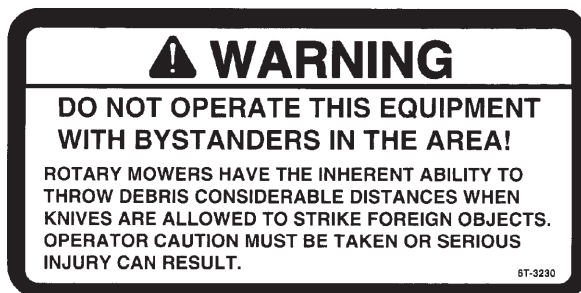
Î VHGG
ÄÄÄÄ ÜÖÒÁU ØÁÖÓ



Î VHGG
ÄÄÄÄ UY ÒÜ/ØÒÔS



Î VHGGÍ
ÄÄÄÄ ÜÖÒÁU ØÁÖÓ



Î VHGE
ÄÄÄÄ ÜÖÒÁU ØÁÖÓ

G5 : 9HM

GREASING INSTRUCTIONS
GROUND ROLLER BEARING
 GREASE EVERY 8 HRS. OR DAILY

NOTE: If unusual environmental conditions exist-extreme temperatures, moisture, or contaminants-more frequent lubrication is required.

873241

ÚØËVÁUÈ
ŠUÔØØP

Î VHĜ F
~~XXXX~~ UY ÒÜÄÖÒS

⚠ WARNING

**DO NOT OPERATE MOWER
 WITH SAFETY SHIELD REMOVED.**

TB1011

VÓÆFF
~~XXXX~~ UY ÒÜÄÖÒS



Tiger Corporation

800-843-6849

www.tiger-mowers.com

Description	Application	General Specification	Recommended Lubricant
Tractor Hydraulics	Reservoir	JD-20C	Mobilfluid® 424
Mower Hydraulics	Reservoir	ISO 46 Anti-Wear/ Low Temp	Mobil DTE® 15M
Cold Temperatures 0°F Start-up		JD-20C	Mobilfluid® 424
Normal Temperatures 10°F Start-up		ISO 46 Anti-Wear	Mobil DTE® 25
Normal Temperatures 15°F Start-up		ISO 100 Anti-Wear	Mobil DTE® 18M
High Operating Temperatures Above 90°F Ambient			
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

For Mobil product information, availability, or technical information, call 1-800-862-4525.

Tiger PN 34852

HÍÍG
~~MP~~ YÖÜØÆVŠÖÁØÆS

G5 : 9HM

ASSEMBLY SECTION

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

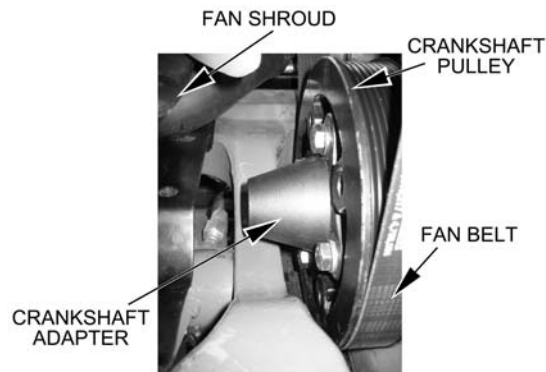
- A. Remove right and left hand steps.
- B. Disconnect battery cables from both batteries.
- C. Remove engine side panels, or raise hood to access front pulley.
- D. Remove plugs from tractor casting where mainframe and pump mount will be attached.
- E. Remove any front weights and weight supports.
-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

(ASM-JD-0001)

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.

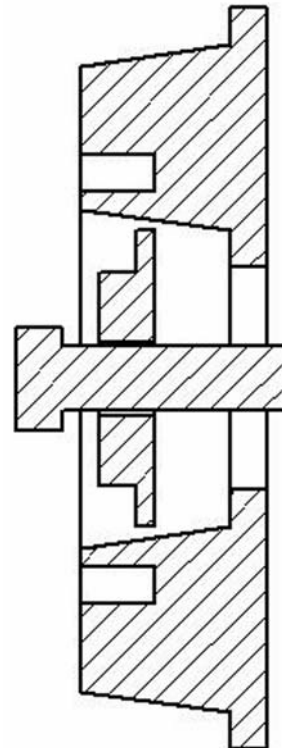
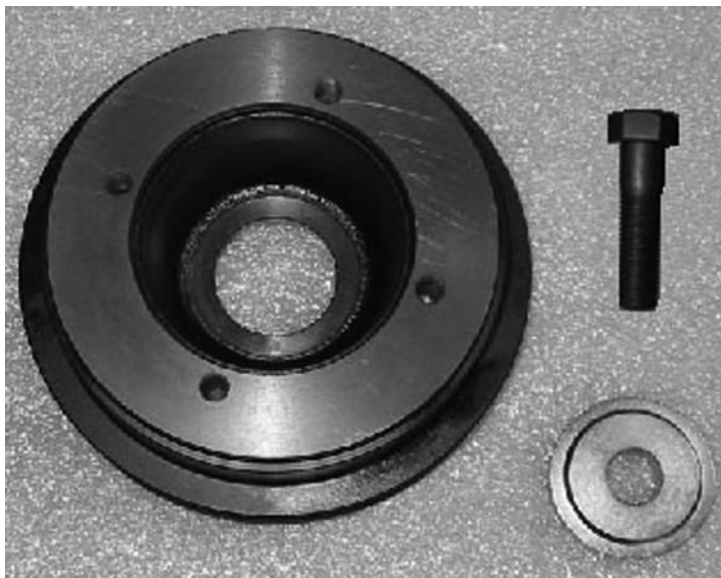
PARTS REQUIRED TO PURCHASE FROM JOHN DEERE:

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)

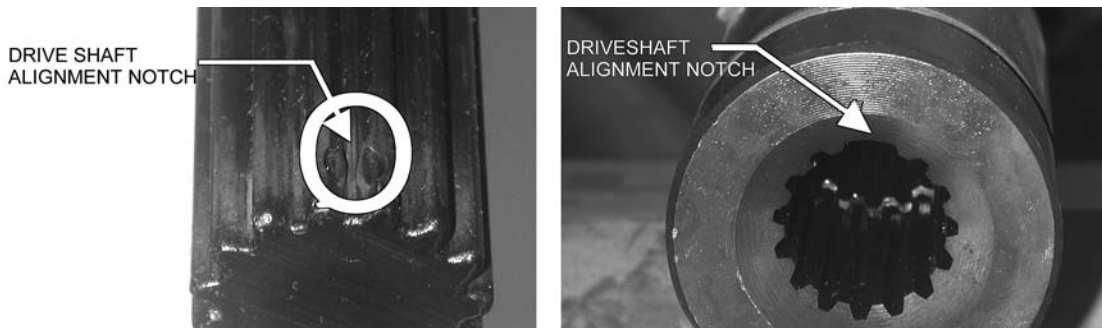


ASSEMBLY

DRIVESHAFT AND FRONT PUMP MOUNTING

Remove bolts from radiator unit and lift unit to a sufficient height to allow room for installation of driveshaft. Remove and discard plastic sheet from floor of engine compartment. 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 the 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 the 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. Lower radiator unit and replace bolts.

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-0243)



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** be adjusted to the widest 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)

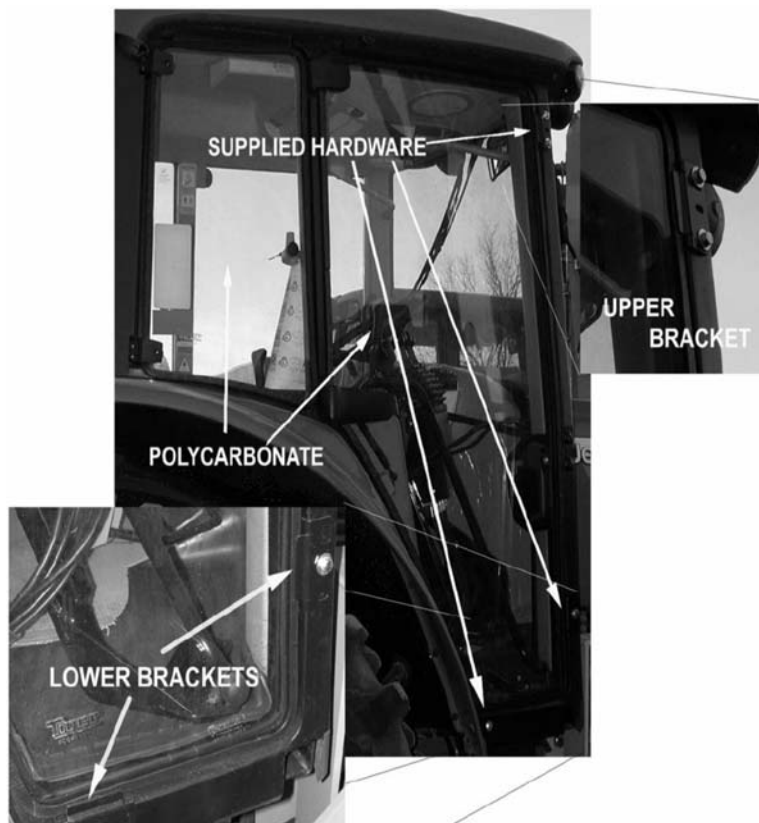


ASSEMBLY

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)



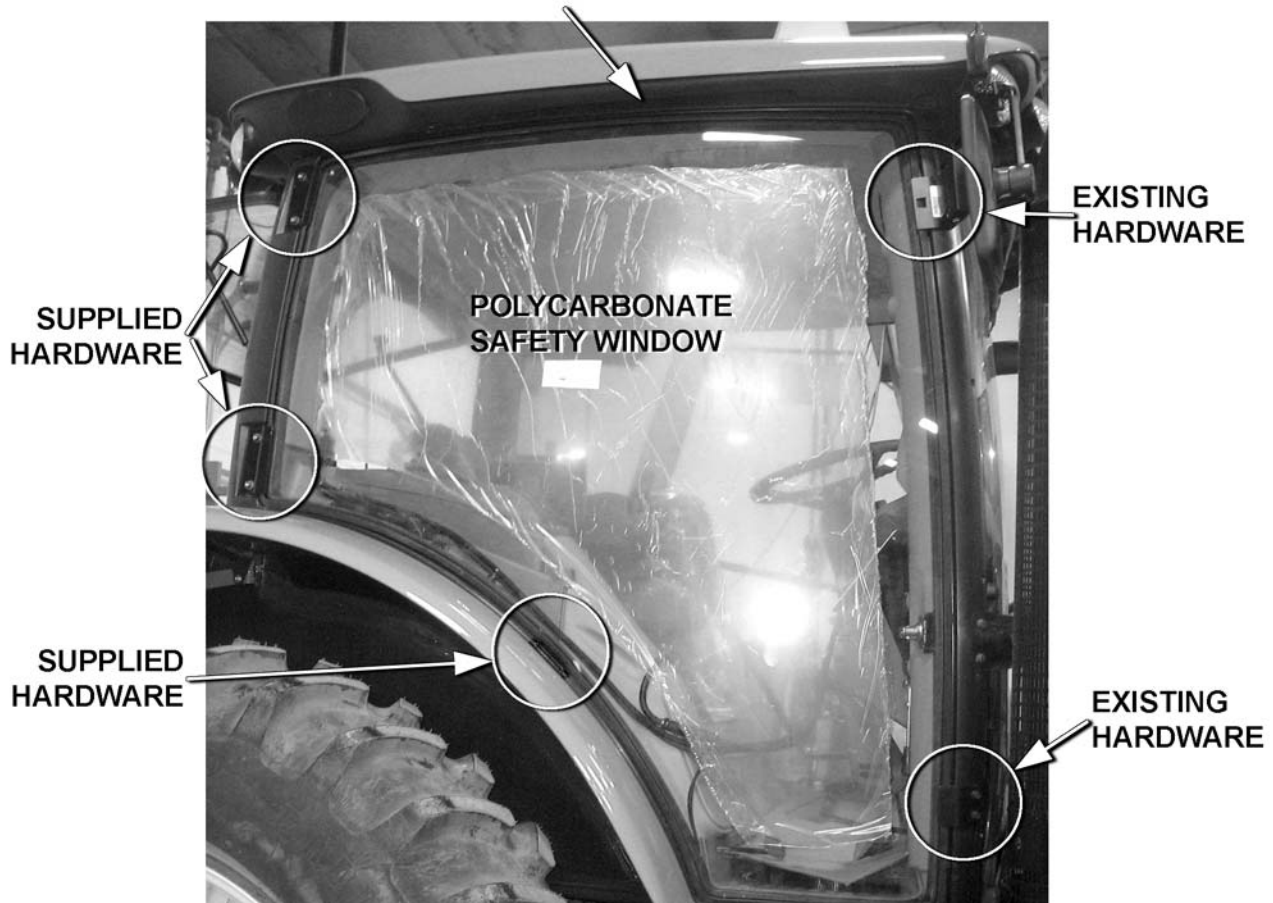
ASSEMBLY

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)

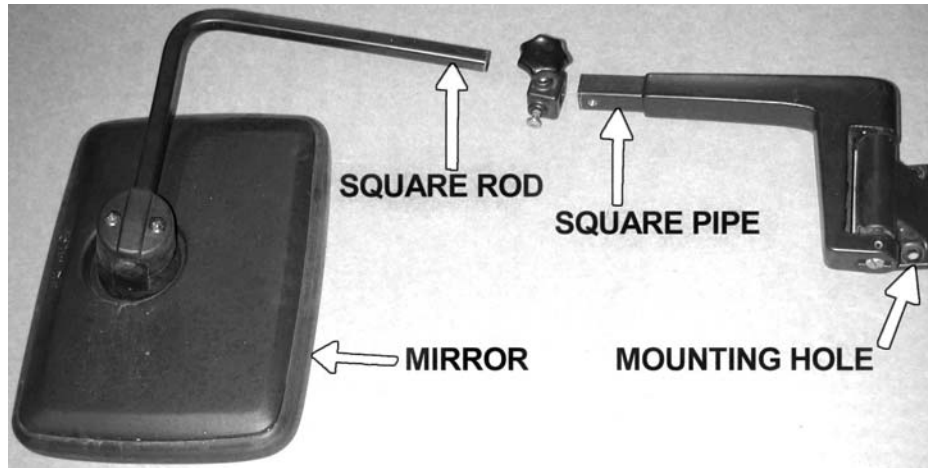
APPLY RTV SILICONE ALONG ENTIRE TOP EDGE OF WINDOW



ASSEMBLY

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)



ASSEMBLY

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.

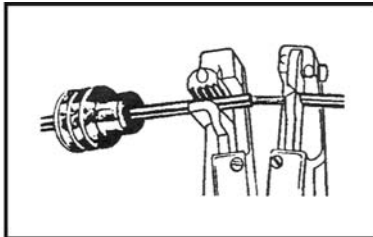
After connecting the power to the switchbox, route the white wire along the cables or wires to the solenoid valve. (ASM-JD-0245)

WEATHER-PACK / METRI-PACK ASSEMBLY

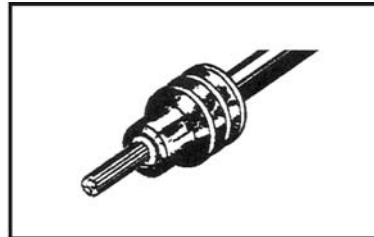
These instructions apply to both Weather-Pack and Metri-Pack connectors.

NOTE: Use the specific tool for the type of connector you are assembling.

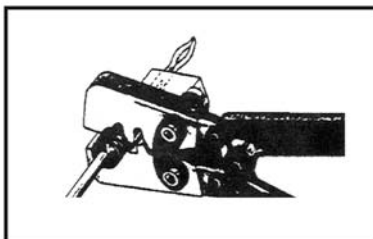
(ASM-C-0009)



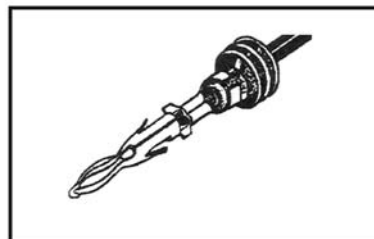
1. Apply seal to cable, before stripping insulation.



2. Align seal with cable insulation.



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



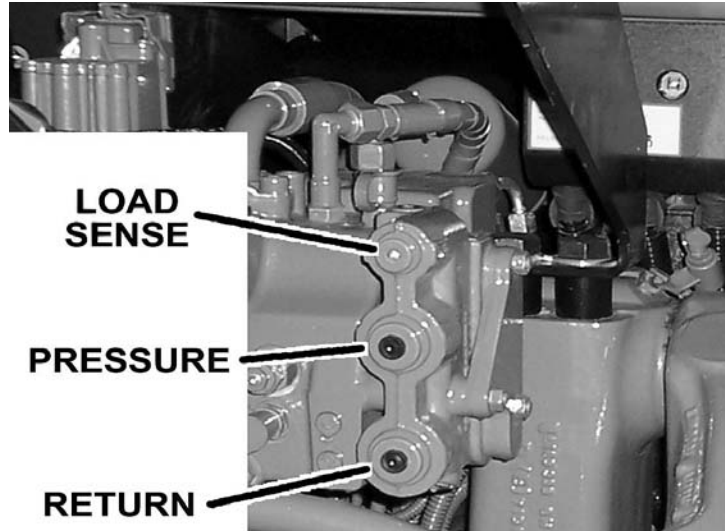
4. Crimp and visually inspect for a good crimp before installing in connector body.



ASSEMBLY

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.

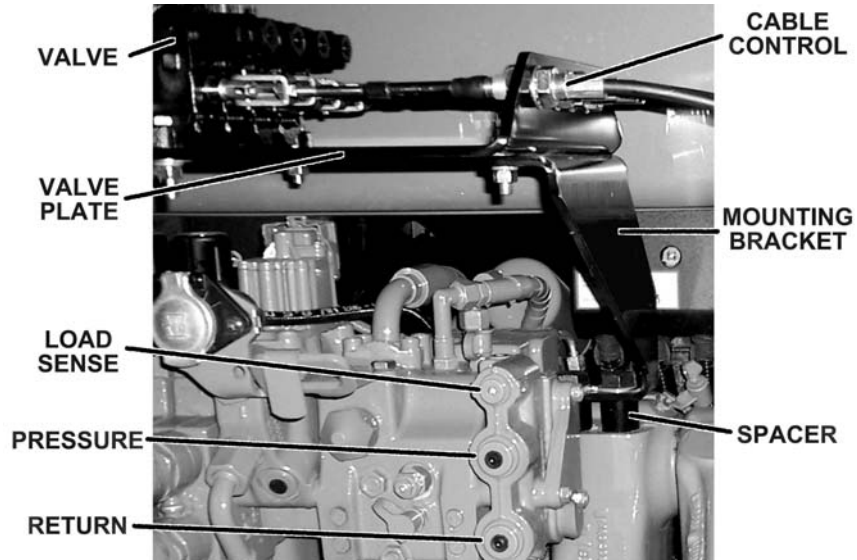
(ASM-14mmLOAD SENSE-0001)



ASSEMBLY

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)

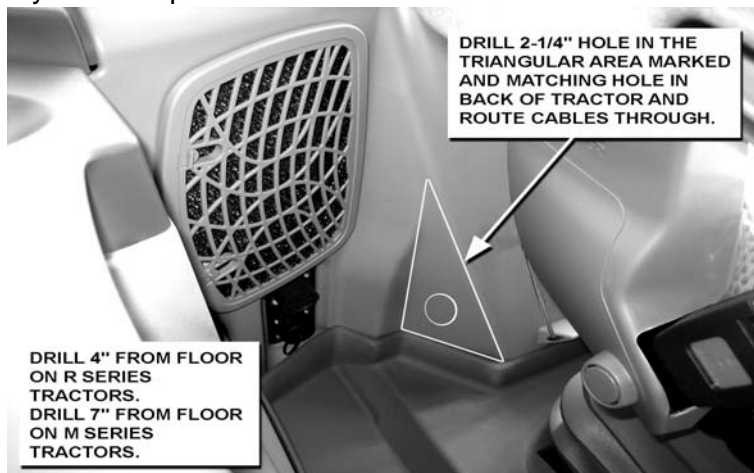
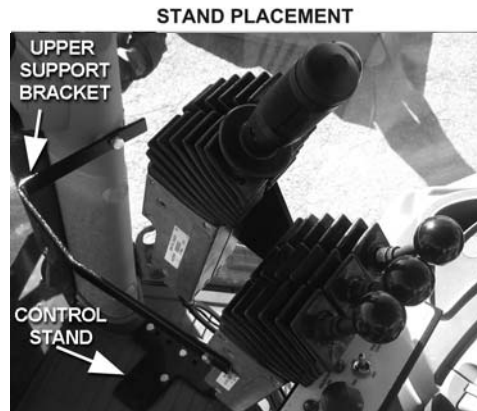


ASSEMBLY

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.

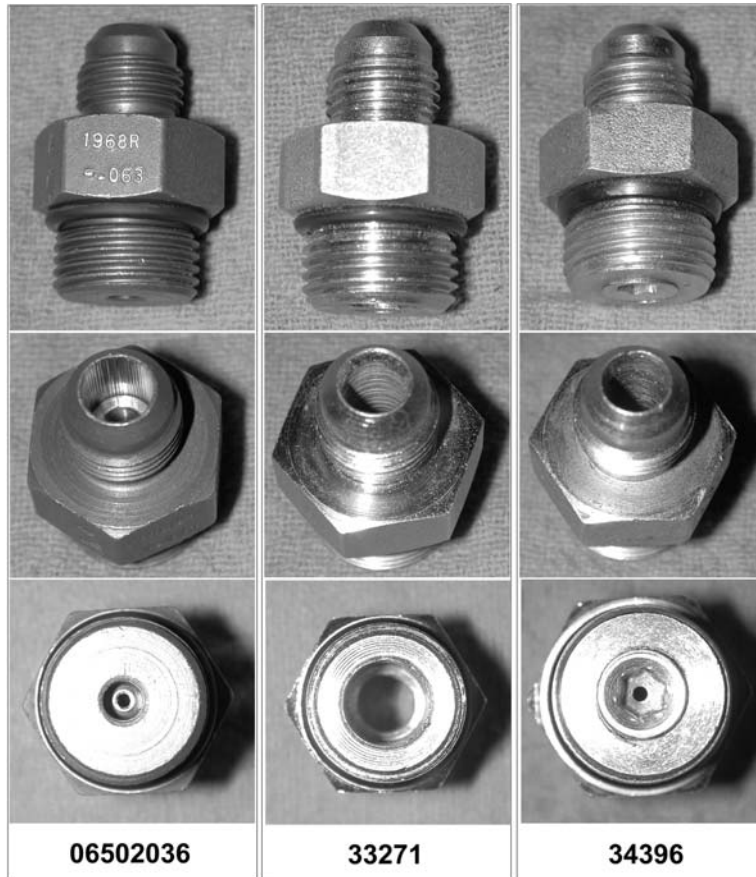
(ASM-JD CBL MNT-0002b)



ASSEMBLY

NOTE ON HUSCO CONTROL VALVES

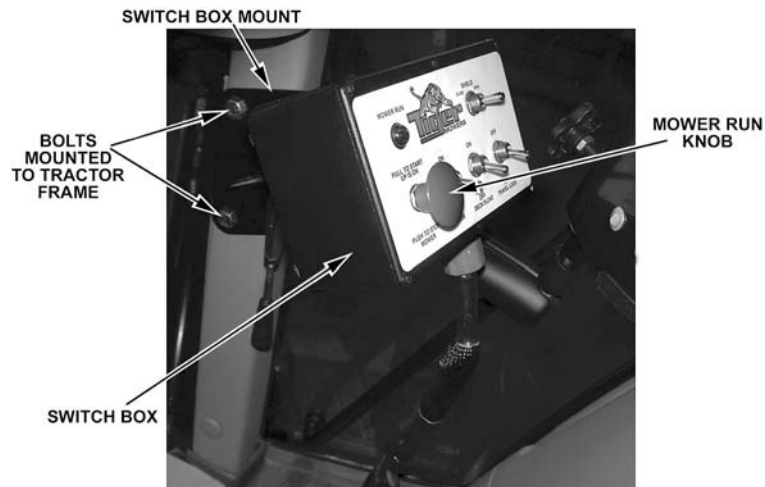
Manual, cable controlled (Husco control valve) boom mowers require check valves with integral restricting orifice (#06502036) installed in the control valve work ports that are connected to the gland ends of the main and secondary boom cylinders. This check valve allows oil to free flow into the gland 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)



ASSEMBLY

JOYSTICK SWITCHBOX MOUNTING

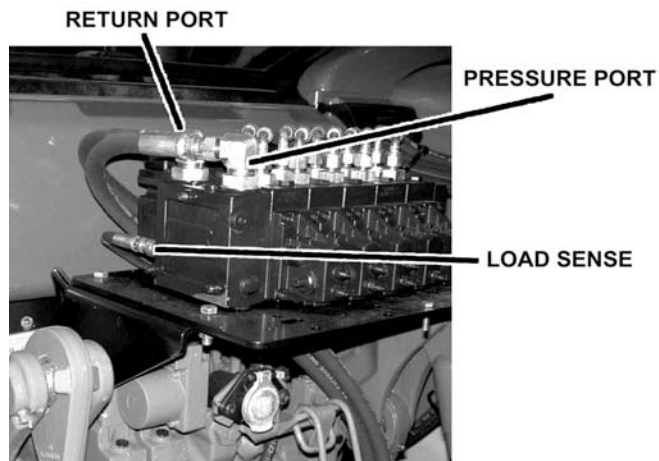
Locate the two holes in the right front corner of the cab frame. These will be the mounting holes for the two mounting bolts of the switchbox bracket. See picture below. Mount the bracket using the hardware supplied, as noted in the Parts Section. (ASM-JD-0081)



ELECTRONIC LIFT VALVE PORTS

(ASM-C-0089)

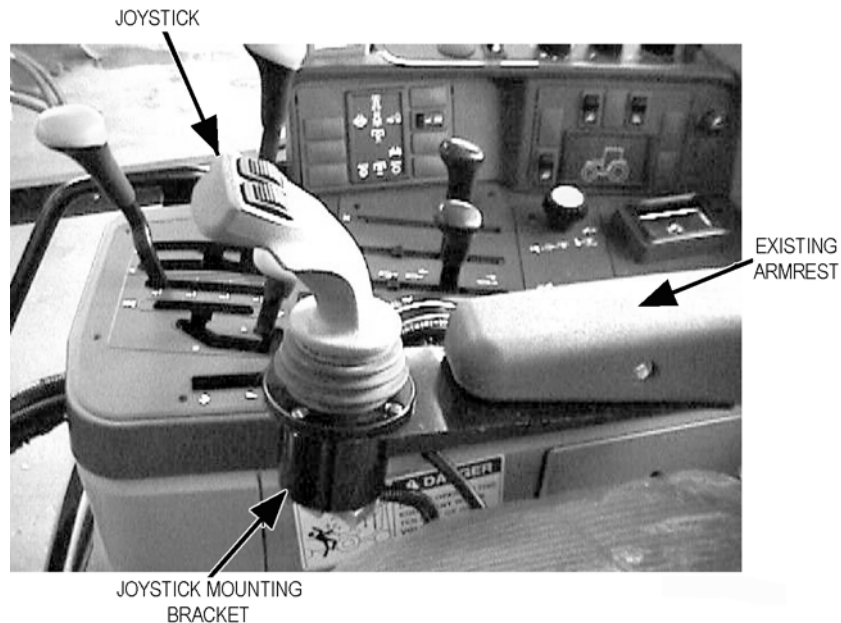
DANFOSS VALVE



ASSEMBLY

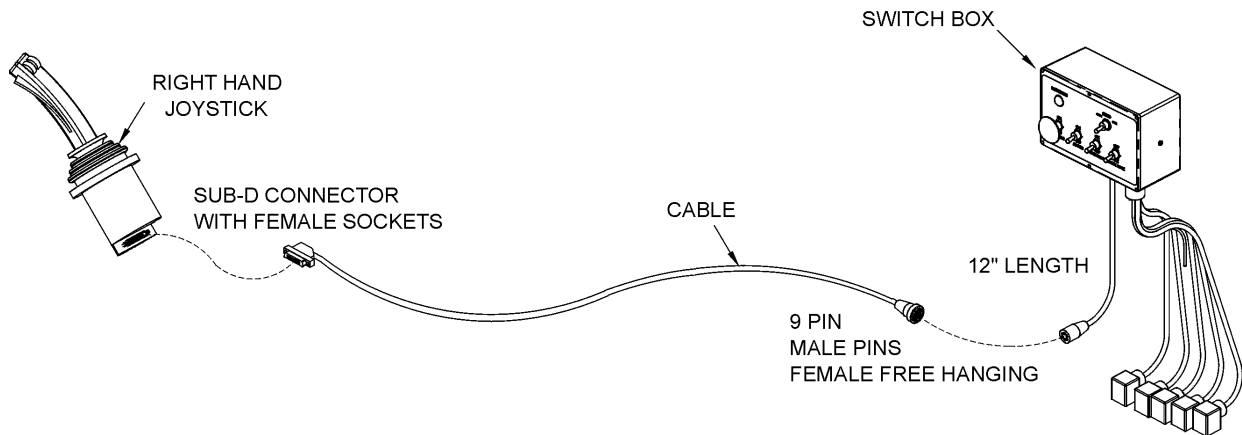
JOYSTICK CONTROL MOUNTING

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 through 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 metal plate in the armrest, so that a spacer 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 bracket with the machine screws shown in the Parts 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)



ASSEMBLY

BOOM JOYSTICK CONTROL CALIBRATION (FOR SABER) SUB-D



This Danfoss PVG32 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 signal voltage from the joystick, the actuator will “fault out” and shut down. An “active fault” condition causes the actuator to drive the spool to neutral, shut down, and activate a “red” LED on the top of 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 be “green” again.



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 Phillips 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. (ASM-DF CALIBRATION SBR-0001)



ASSEMBLY

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 counter-clockwise.

Setting Signal Adaptation Potentiometers:

Disconnect the Deutsch connectors from the actuators of the valve. Use a Volt/Ohm meter to measure signal voltage and adjust the signal adaptation 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 percentage should not be less than 25% or greater than 75% for the Main Boom, Secondary Boom, or Swivel function. This percentage should not be less than 30% or greater than 62% for the Deck Roll function. Note these initial settings for the Deck Roll 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 Danfoss valve. Run 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 counter-clockwise 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



ASSEMBLY

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 5-6 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:11-13 Seconds

(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.)

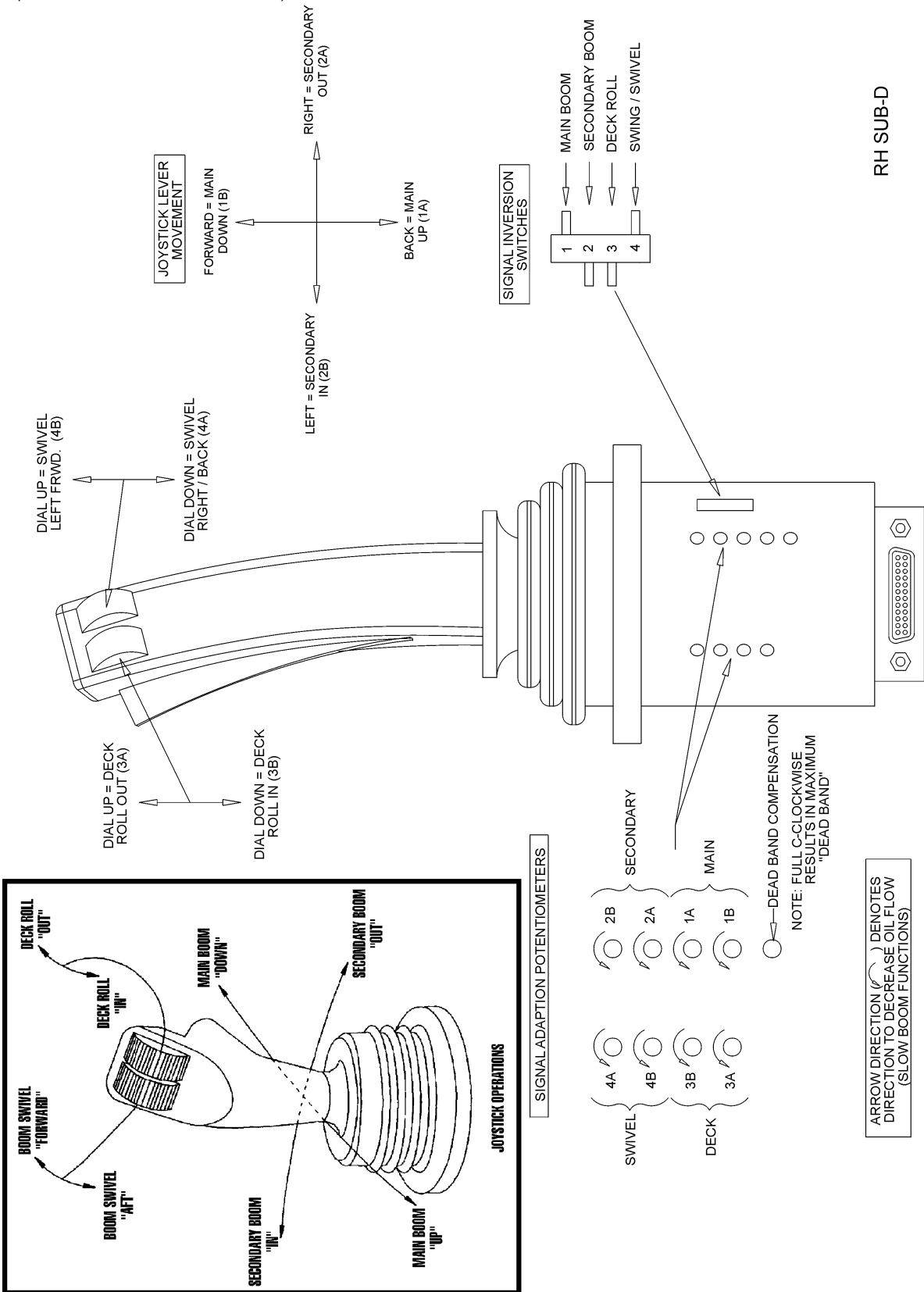
“B” Port, Boom Forward:11-13 Seconds

(Extend booms completely, rotate head to be level with ground, lower main boom until



ASSEMBLY

(ASM-DF CALIBRATION SBR-0001)



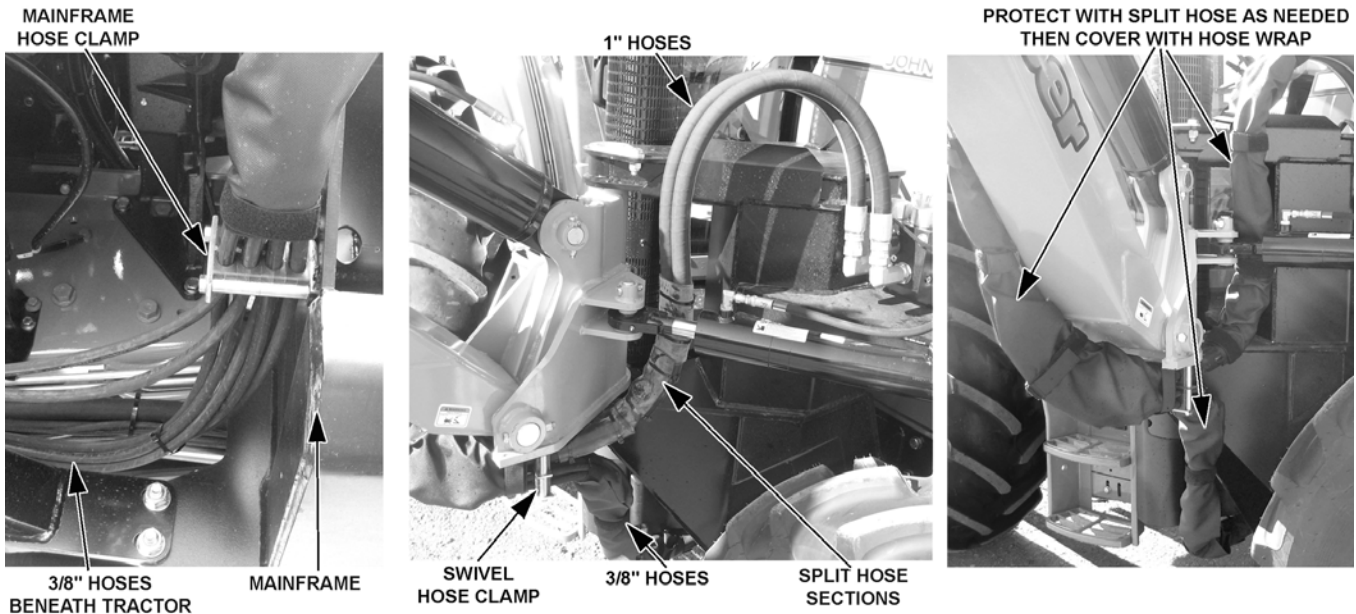
RH SUB-D



ASSEMBLY

REAR STOW SABER HOSE ROUTING

WARNING NOTE: The sudden release of hydraulic pressure could cause the sudden 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 pinch or stretch as boom moves. Measure TWICE, check TWICE then proceed with caution.



Route the 3/8" hoses from beneath the tractor through the clamp attached to the side of the mainframe, and then up to the clamp beneath the swivel. Route the 1" pressure and return hoses as shown in the photos. Wrap the 1" hoses with split hose sections and secure with zip ties where they may come in contact with the swivel or the cylinder. Connect the hoses to the boom preformed tubes or hoses and move the boom arm to a few feet from full forward. 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. Cover the hoses on either side of the clamp with the hose wrap. This will protect the hoses from abrasion and heat.

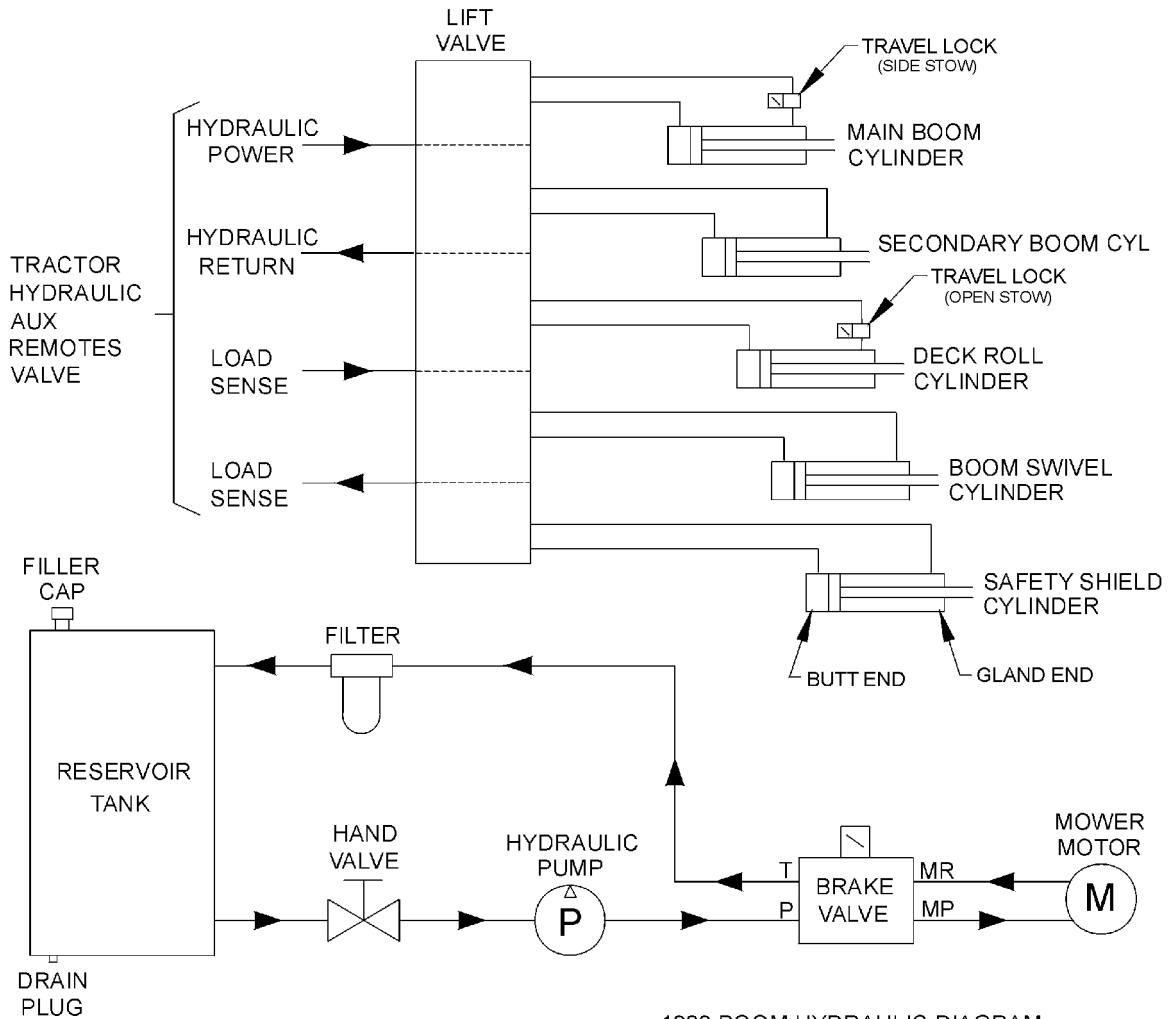
Make sure the 1" hoses do not kink as the boom arm is moved into the stowing position. If this happens the hoses will have to be shortened, because there is too much hose between clamps. (ASM-T4 HOSE ROUTING-0001A SABER)



ASSEMBLY

(ASM-C-0023)

BOOM HYDRAULIC DIAGRAM



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

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 hydraulic pump.

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 swivel 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)*

GENERAL HOSE INSTALLATION

Refer to the Parts Section for more information about hoses and fittings for this application.

When mounting the suction hose between the pump and the tank, the stainless steel bands that are provided must be used. **CAUTION:** DO NOT use regular hose clamps for this purpose.

HOSE COVERING

Secure hoses together with zip ties wherever loose. Wrap the hoses between the swivel and main boom with the hose cover provided. Wrap the hoses between the main boom 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

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-

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)

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 bracket anchor with the special "bracket head" cylinder pin and roll pin shown in Parts Section.

Install the travel lock on the butt 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.

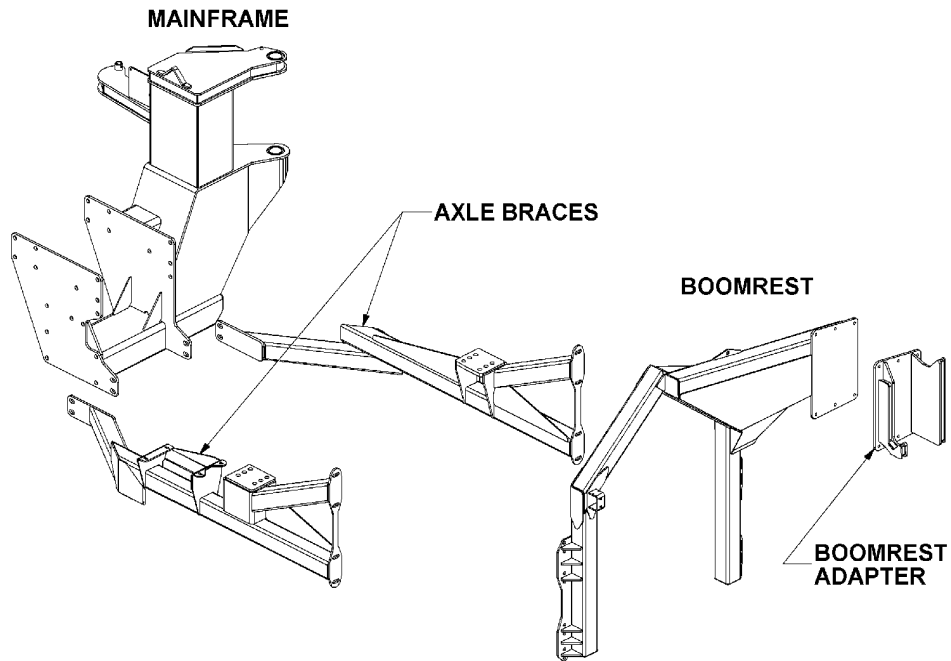
GREASELESS BEARINGS ARE DARK GRAY AND SHOULD NEVER BE GREASED. THE MAIN BOOM CYLINDER AND THE SECONDARY CYLINDER ARE NOT GREASELESS AND NEED TO BE GREASED. (ASM-MN BM LRS-0001)



ASSEMBLY

RS AXLE BRACE MOUNTING

The rear 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.



RS BOOMREST MOUNTING

Carefully raise the rear 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 rest strips to the boomrest. (*ASM-JDBOOM-*



ASSEMBLY

DECK ATTACHMENT

Attach the head to the secondary boom using the pins and hardware shown in the Parts Section to attach linkages. Install the square tube on the top of the head into the head mount and secure using the mounting plate and hardware as shown. The mount should be positioned to the left side of the cutter head. Install the deck pivot cylinder using the pins and hardware also shown in the Parts Section.

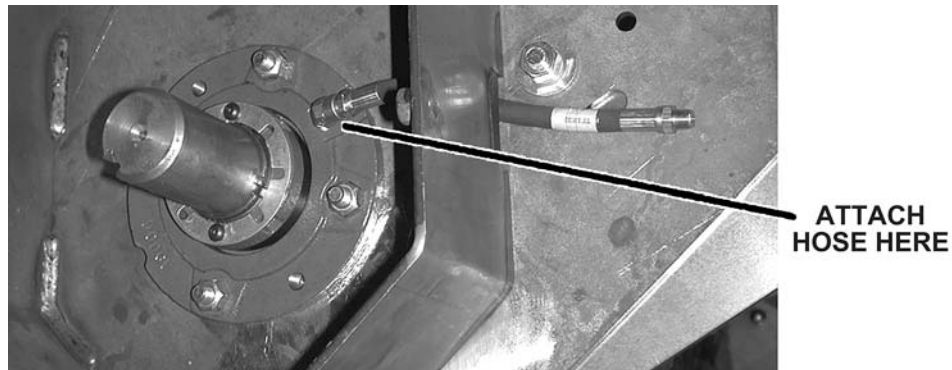
Connect the fittings and hoses from the pivot cylinder to the small preformed tubes on the boom arm. Connect the fittings and hoses from the motor to the large preformed tubes on the boom arm.

Connect all remaining hoses from the control valve to the cylinders and / or preformed tubes on the boom arm. Refer to Parts Section for diagrams.

Before proceeding to the final preparation step, double check the complete assembly from the mainframe to the cutter head against the diagrams in the Parts Section for proper placement and assembly of all components. (ASM-C-0060)

EXTENDING ZERK ON FLAIL HEAD

Because the belt shield covers the cutter shaft bearing on the flail head, a hose, elbow, and grease zerk have been added to the bearing. Remove the existing grease zerk from the bearing and discard. Attach the elbow to the bearing. Next, attach the hose to the elbow, route through the belt shield (shown below) and attach to the outside of the shield. The additional zerk is connected to the end of the hose for easier bearing maintenance.

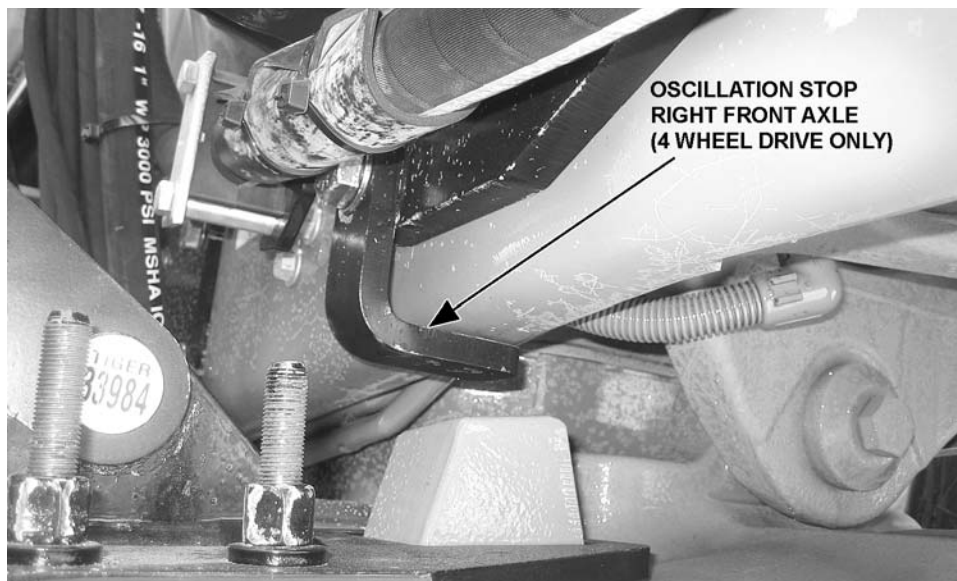


After assembling all components, double check the complete assembly from the mainframe to the cutter head. Check the diagrams in the Parts Section for proper placement and assembly of all components. (ASM-FLAIL-0001)



OSCILLATION STOP

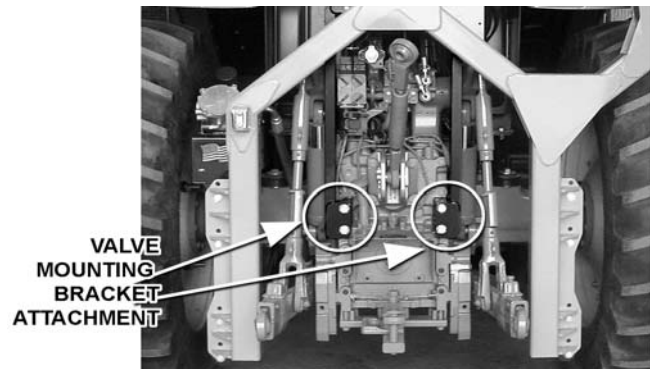
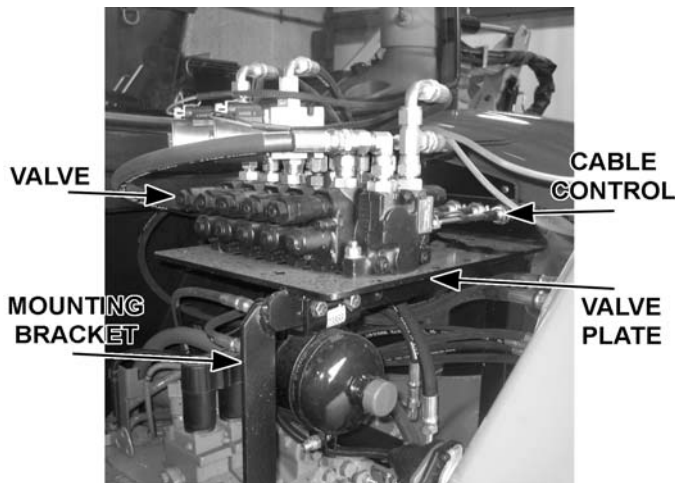
JD6140-50M/R tractors with 4-wheel drive require an oscillation stop for Saber boom applications. The stop will be installed on the right side over the front axle. Stops are also needed for tractors equipped with triple link suspension. See the mount kit page of the Parts Section for more information. (ASM-JD-0249 STOP OSS)



ASSEMBLY

VALVE MOUNTING JD6140-50R

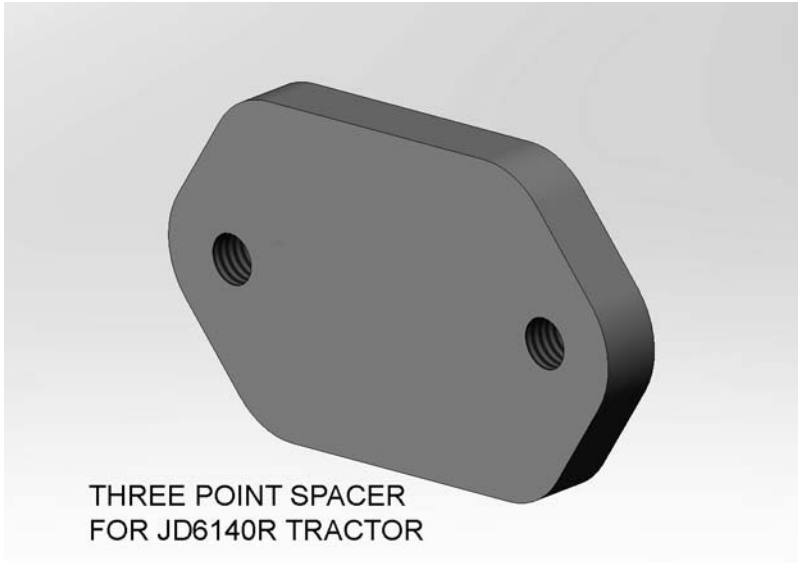
The mounting bracket for JD 6140-50R series tractors features two long legs which need to be attached as shown in the photo below. Secure the bracket to the tractor with hardware shown in the Parts Section of the manual. Align the holes for the cables on the Husco control valves and center the Danfoss 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 JD6140R)



ASSEMBLY

3-POINT SPACER BLOCKS FOR JD6140-50R

To help stabilize the 3-point arms on JD6140-50R tractors for Open Stow, Legal Rear Stow or Triple flail applications, 3-Point Spacers (P/N 06402260) need to be installed. To attach the spacer blocks on JD6140-50R tractors, 5/8" capscrews (P/N 21784) and 5/8" flatwashers (P/N 33764) will be used. *(ASM-C-0036 jd6140Rev)*



ASSEMBLY

GREASELESS BEARING INSTALLATION

It is recommended that grease be applied to the bore to aid in insertion of the greaseless bearing. (ASM-GRSLSS BRNG-0001)

Assembly

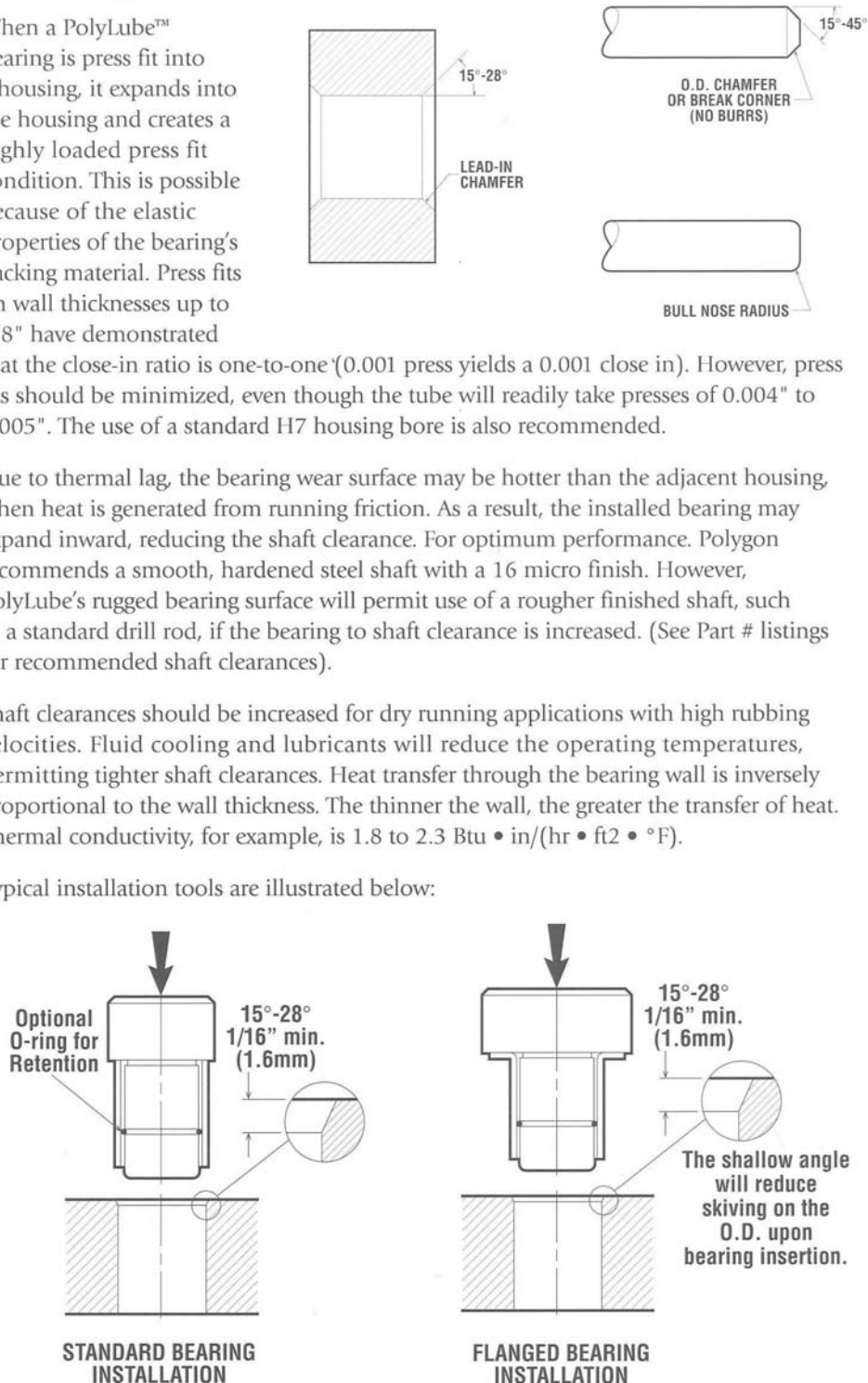
When a PolyLube™ bearing is press fit into a housing, it expands into the housing and creates a highly loaded press fit condition. This is possible because of the elastic properties of the bearing's backing material. Press fits on wall thicknesses up to 1/8" have demonstrated

that the close-in ratio is one-to-one (0.001 press yields a 0.001 close in). However, press fits should be minimized, even though the tube will readily take presses of 0.004" to 0.005". The use of a standard H7 housing bore is also recommended.

Due to thermal lag, the bearing wear surface may be hotter than the adjacent housing, when heat is generated from running friction. As a result, the installed bearing may expand inward, reducing the shaft clearance. For optimum performance, Polygon recommends a smooth, hardened steel shaft with a 16 micro finish. However, PolyLube's rugged bearing surface will permit use of a rougher finished shaft, such as a standard drill rod, if the bearing to shaft clearance is increased. (See Part # listings for recommended shaft clearances).

Shaft clearances should be increased for dry running applications with high rubbing velocities. Fluid cooling and lubricants will reduce the operating temperatures, permitting tighter shaft clearances. Heat transfer through the bearing wall is inversely proportional to the wall thickness. The thinner the wall, the greater the transfer of heat. Thermal conductivity, for example, is 1.8 to 2.3 Btu • in/(hr • ft² • °F).

Typical installation tools are illustrated below:



ASSEMBLY

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 operator, 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.



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 should 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 described 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)*



ASSEMBLY



CD9 F5 HCB'G97 HCB

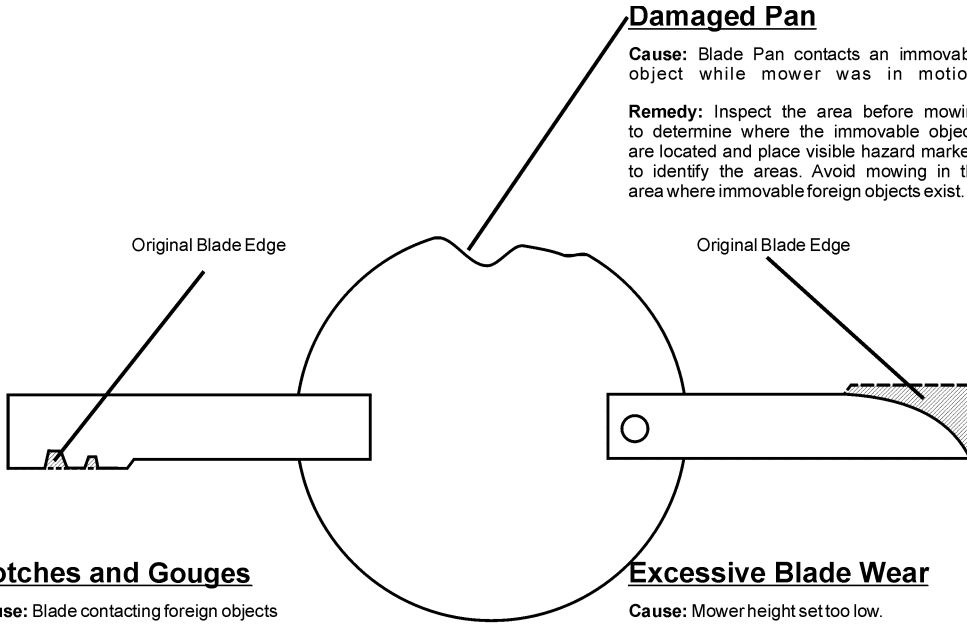
UJ^!aa } A^&a } A#

CD9F5HCB

CD9F5HCB

Blade Damage

Blade damage can occur when the blade contacts an immovable object while the mower is in motion.



Damaged Pan

Cause: Blade Pan contacts an immovable object while mower was in motion.

Remedy: Inspect the area before mowing to determine where the immovable objects are located and place visible hazard markers to identify the areas. Avoid mowing in the area where immovable foreign objects exist.

Notches and Gouges

Cause: Blade contacting foreign objects

Remedy: Inspect the area to be mowed and remove foreign objects that could cause damage to the blades

Excessive Blade Wear

Cause: Mower height set too low. Blade used past intended life.

Remedy: Replace blades more often. Adjust mower height for mowing conditions to eliminate blade-to-ground contact

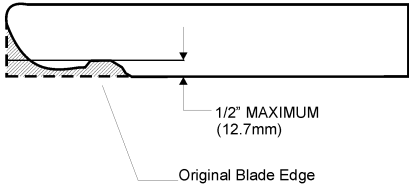
Op-22



Blade damage can occur when the blade contacts an immovable object while the mower is in motion.

- Inspect the area before mowing to determine where the immovable objects are located and place visible hazard markers to identify the areas. Avoid mowing in the area where immovable foreign objects exist.
- Inspect the area to be mowed and remove foreign objects that could cause damage to the blades
- Mower height set too low. Blade used past intended life.
- Replace blades more often. Adjust mower height for mowing conditions to eliminate blade-to-ground contact

Blade damage can occur when the blade contacts an immovable object while the mower is in motion.



NOTE: Replace Blades in pairs after no more than 1/2" (12.7mm) wear
Op-23

U] ^! aaj } A^ & a } A E I

CD9 F5 HCB

CD9 F5 HCB

Excessive Blade Bolt Wear

Q.] ^ & o | a a ^ A O | o P ^ a a ^ A a a ^ A | A ^ a a e A | I | , ^ a k

Excessive Blade Bolt Wear

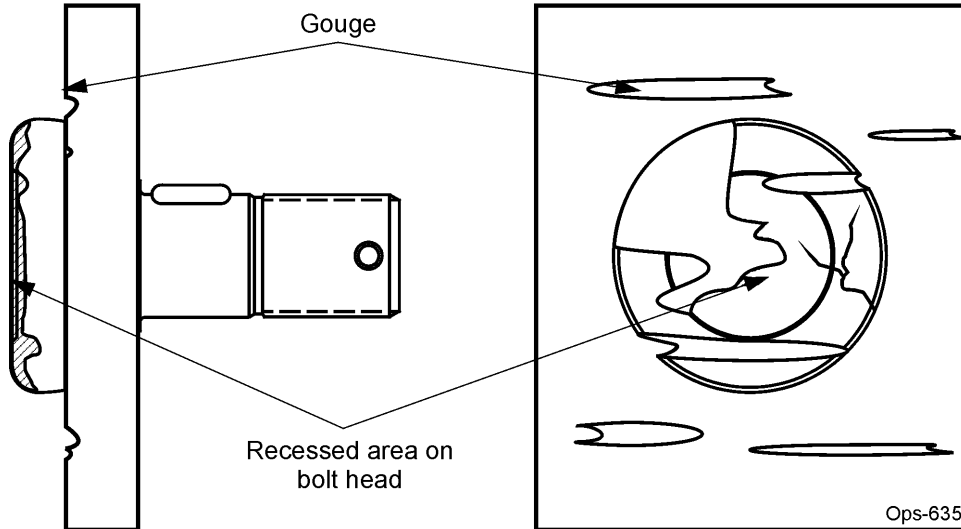
Cause: Blade Bolt contacts a foreign or solid object while Blade is in motion.

Remedy: Inspect the area before mowing to determine where the foreign objects are located and place visible hazard markers to identify the areas where immovable foreign objects exist, and avoid hitting the objects.

Notches and Gouges

Cause: Blade Bolt contacting foreign objects.

Remedy: Inspect area to be mowed and remove foreign objects that could cause damage to the blade bolt.



⚠ DANGER

Q.] ^ & o | a a ^ A O | o P ^ a a ^ A a a ^ A | A ^ a a e A | I | { a ^ a e U O U S O E O A O U V P A O S O E O A O U S V U A }
 o A O | a a ^ A T O O O S O S Y A A a o | A | a a ^ A | o A e K

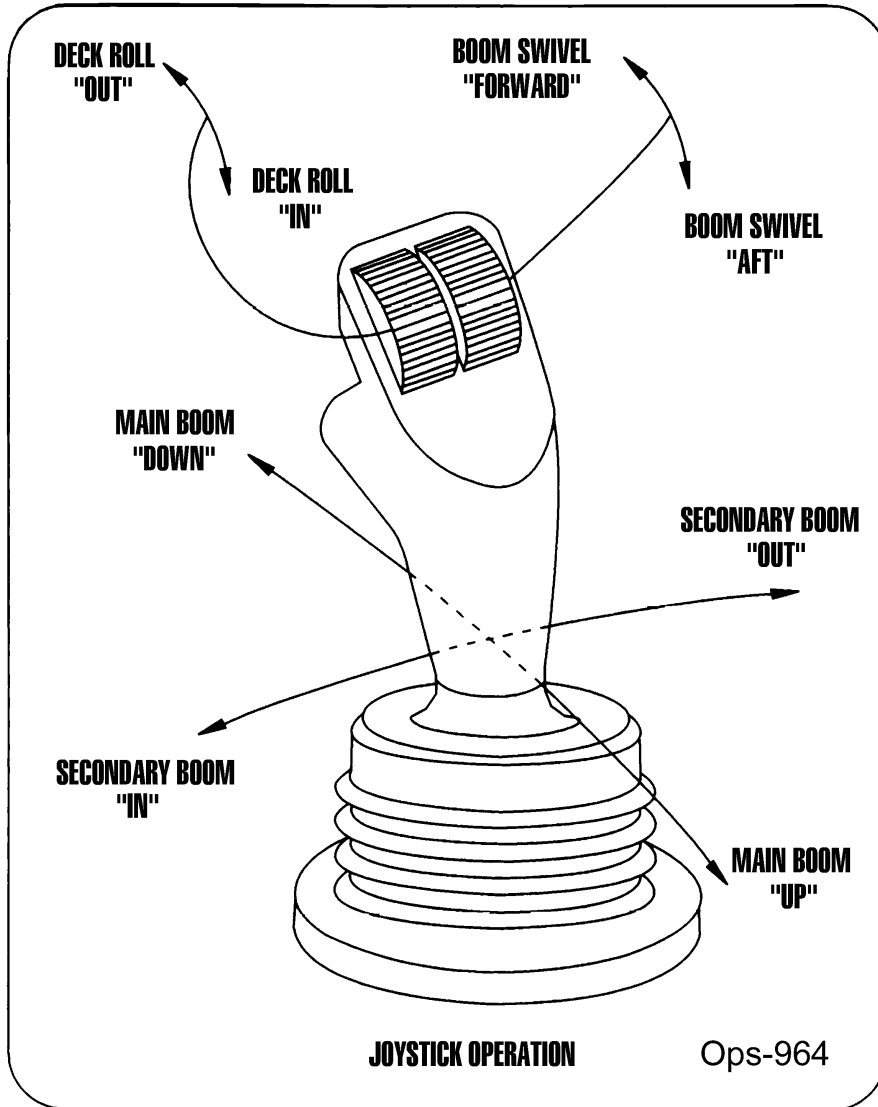
- " X a a | ^ A a a . A | A
 - " Q a @ A ^ & . . ^ a a a a } A | a a ^ A | o A A [] A - A | A
 - " Q O | a a ^ A O | o A e A [^ * ^ . A | A e] ^ a a e a E
- O a a | ^ A | A ^ | a a ^ A a } [] { a | A [] A | a a ^ A | o A a e A a a A | A e a e d [] @ A a a | ^ A A o A | a a ^ A a a a b & a } A ~
 o A | ^ A } A a a @ A a e A e . ^ A a a . A | a a a a b | A | A a e E
- 5 `k U n g `f Y d `U W `6 `U X Y `6 c `l g `k] H `b Y k `V c `l g `k] Y b Y j Y f `f Y d `U W] b [`H Y `6 `U X Y g `A U U E V e H

U a a ^ | U] ^ | a a } A ^ & a } A e i

CD9F5 HCB

* ">CMGH7 ? '7 CBHFC @

CD9F5 HCB



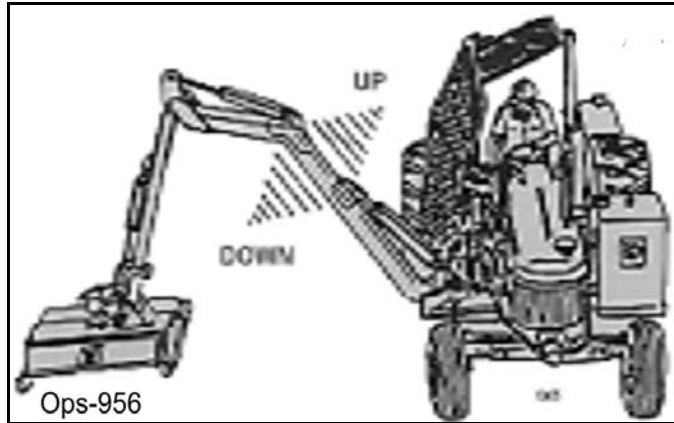
Uaa^!

Uj ^! aai } A^ & ai } A E i

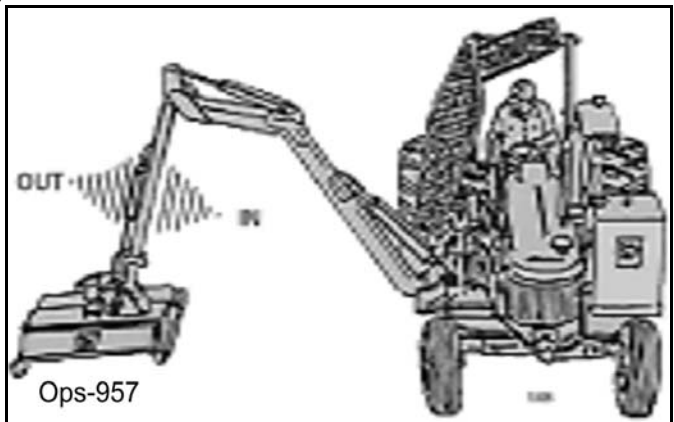
CD9F5HCB

CD9F5HCB

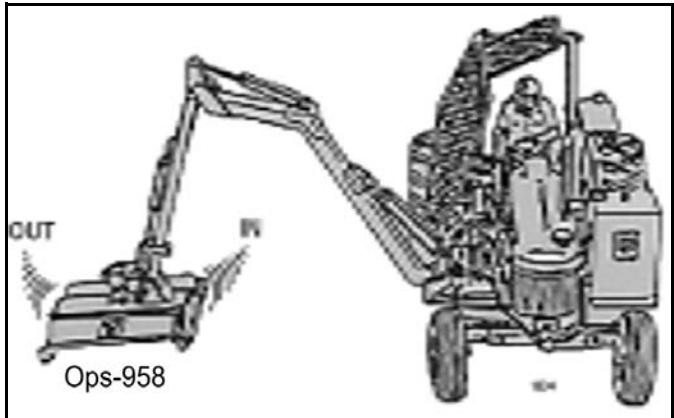
RU'YUVWXSAY EOCESAT UXOUAT OEDOUUT



RU'YUVWXSÁ ŠOVWVOPVÁ T UXOUÁ UODUPÖEYU
OUUT



ŠOVÁRU'YUVWXSÁJU ŠŠOUAT UXOUÁ OODSÁJU ŠŠ



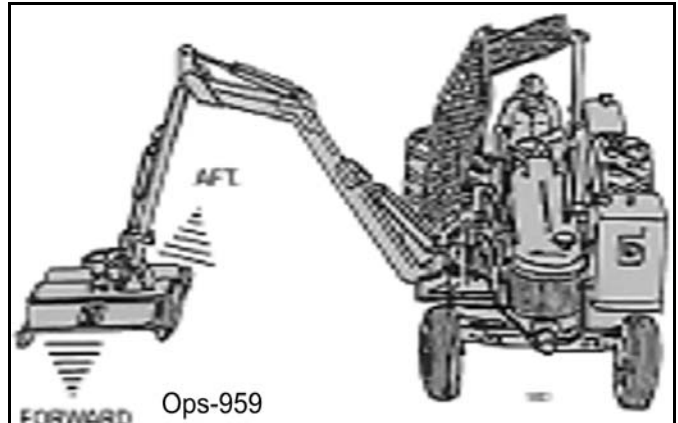
Uaa^!

UJ ^! aaj } Á ^ & a } Á E J

CD9F5HCB

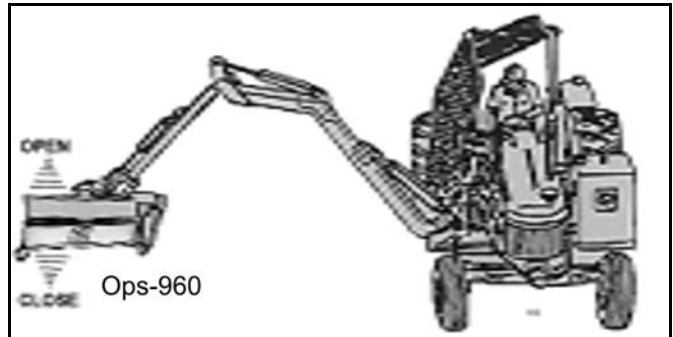
CD9F5HCB

ÜÖP VÁ RUÿÜVÖSÁ ÜÜŠŠÖÜÁ UXÖÜÁÜUUT
 ÜY QÖS



Ops-959

ÜPÖŠÖÁ ÜY QÖPÖ } Á •, ä&Ö à[ÖDÁ UÜÖÜÖVÖÜ
 ÜÖÖVYÁUPÖSÖ



Ops-960

*** %Gk IHW Vcl**

V@Áæ^c ÁÜ@|áÁç^!Á| ^) • Äö áÁ| • ^ • Á@Á @|á
 || &æ áÁ| } Ác@Á-| } Ö| - Á@ & Ö | Á@ ^ äáEY @ }
 { [çä * ÁæÁ | Á) ^ äÁc@Á * | ~ } áEäæ, äé • Á@æ^Ác@
 • @|áÁç Ác@ Á&| • ^ áÁ| [• äá } EY @ } Á | çä * Áç Ác@
 à! • Ö | Á Á ^ ^ • Áæ[ç^ Á | [~ } áÁç^ | Ác@ Á @ | áÁ æ
 á^ Á | ^ } ^ áÁ | Á æ á | Á& Öä * EÜ^ äáæ äÁ | | | Ác@
 , äé } ä * Á } Ác@ Á ^ & ç Á @ , } Á } Ác@ Á ^ ÖÁ æ ^ E



Ops-953

Üäá^!

U| ^! äá } Á^ & ç } Á EÖ

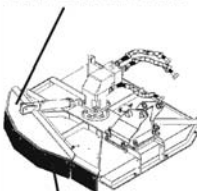
CD9F5HCB

CD9F5HCB

DANGER

SAFETY SHIELD & DEFLECTOR OPERATION

SAFETY SHIELD



DEFLECTOR

- Failure to close Safety Shield and Deflector may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death.

1. Keep Safety Shield and Deflector fully closed when cutting grass and weeds to reduce possibility of objects being thrown outward by the Blades if persons are in the area.
2. Before Cutting brush, trimming limbs, or other such operations, raise the Deflector and Safety Shield fully to allow the blades to contact the material if area is clear of passerby. Operator must stop cutting and close shield if passerby enters the thrown objects area or blade contact area.
3. Repair or replace Safety Shield and Deflectors as needed.
4. Always transport with Safety Shield and Deflector closed.

02967867

WARNING

Failure to close Safety Shield and Deflector may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death.



WARNING

Failure to close Safety Shield and Deflector may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death.

Failure to close Safety Shield and Deflector may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death.

Failure to close Safety Shield and Deflector may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death.

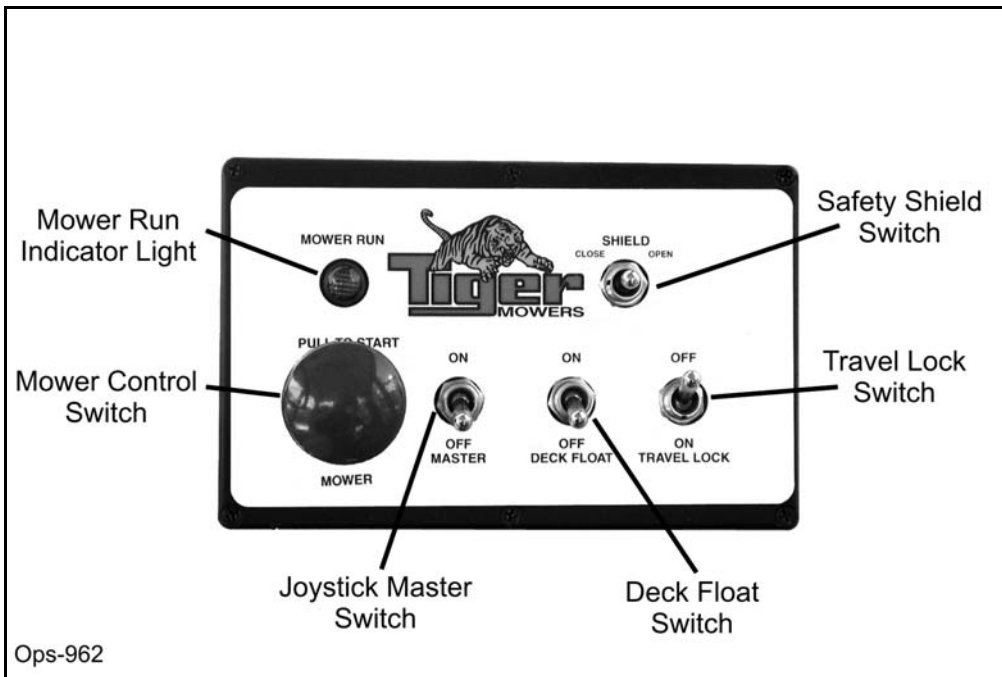
Uaã!

U] !ãã } Æ^&ç } ÁËË

CD9F5HCB

CD9F5HCB

* " & A U j b ' 7 c b f c ` ` G k j W ' 6 c l



V@AT [^!AO] d[|A, as@C } • A@A [, ^!AUB+Ag aAWO+EV@A, as@A At As^As A@AWO+A [• as } At A cec
 c@A asd !EAc@A, as@A AWB+Ag aA@A asd !A } as } A, as@A A ! ^aAt AWB+Ac^aA%o [, ^!A } +As a asd !
 |a @A a|A| { A } EAP [, ^c^!E@Ac asd !A a|A [c as o as as A a@A@AT [, ^!AO] d[|A, as@A A@AWB+A [• as } E
 W [] A cec } A@A asd !A@A%o [, ^!A } +As a asd !A @A as A as @a|a+ E as aA as A as @a|a+ As as A @ } A@
 d asd !A A @ a [, } E

WARNING

GA asd !A cec } A a@A, as@A } E } A -A asd !A as a|A } cec } A [^!A | as aA ^!A^ as ^! • @ A |
 as • a as } & ^ E

WARNING

PUVONK S C BCHA ^! as A [, ^!A@ as A @ ^!A [[{ A as A@A [[{ A ^ o A U ^ a A%o [, ^!A } +
 |a @A a as } A [, ^!A AWB+A @ } A asd !A } a ^ A } } a * E

V@Aa [[{ A } & c } • A as A | d [| ^ a A ^ Ag A ^ ^ d as ^ • cA EV@A [^ cA AT as c^!AU, as@A } as ^ A@A ^ • c as
 & [] d [|A | A |] d [| a * A@A [[{ A [c] A } & c } • EV@A, as@A At As^As A@AWO+A [• as } A @ } A cec } A@
 d asd !A as a } A @ } A [[{ A A d , ^aA | A as }] [c } A@A as } A E

CAUTION

GA@A ^ • cA A A [c] ^! as } A [| ^! E } A@A as c^!A, as@A A@AWO+A [• as } E } • c as
 c@A as } as a as ^ A@ } a | A } d A as ^ A as a | ^! as A@A } & c } • A as a as as } At A d , A [[{ E
 C as ^!A [[{ A A d , ^aA A ^ d as }] [c@A } as A@A as c } as } A as a as } as a | } cec } A [^!
 V a ^!A^ as ^!A | as • a as } & ^ E

CAUTION

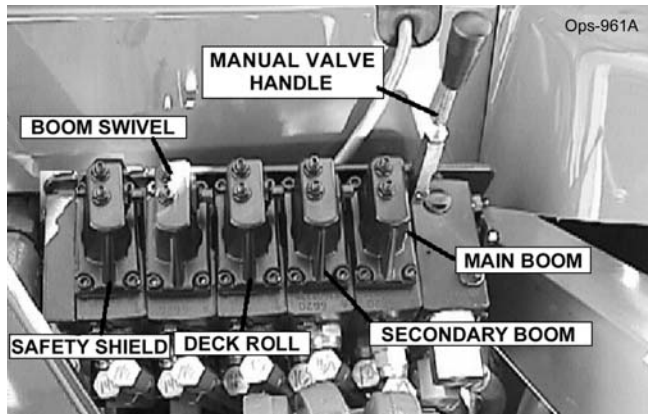
8 C BCHA as { } c | A | ^! as A@A as } as } A | A [, a * A | ^! as } • A

P [c A U ^ • @ * A as } as a as ^ A@ } a | • A%o c A | A as as a | [{ A@Ac asd !A as A a|A a } a * A@A as A a [[{ A%o } E
 • ^ & } as } A [[{ A%o c A | A ^ & A%o c as } a A , a ^!A [[{ A as c A U } | a * A as } as a as a | • A | , as a A as A a | A c as
 a [[{ A a [, } E ^ & } as } A [[{ A a + A | | A ^ & A a + A , a ^!A [[{ A a | , as a A as } a A | • ^ A@A as c A @ | a E

U as ^! U | ^! as } A ^ & c } A ECG

CD9F5HCB

CD9F5HCB



V@Á æ c'ÁÜ, æ&@ [Á | çã^Á |, ^Á Á@ÁÜ & Á | æÁÜ@ |á+Á áÁÜæ^Á | Á & ÁÜ } &ç | • Á Á@Á |, ^Á á^Á E

V@ÁÜ & Á | æÁ } &ç | Á |, • Á@Á | } áÁ | | Á Á@ÁæÁ |, ^Á@æÁ Á | |, Á@Á | } ç'Á Á@Á | } áÉV | [] ^Áæ Á@Á & Á | æÁ } &ç | É@Á æ c'Á, æ&@ • ç^Á Á@ÁÜ+Á | • æ } Á@Á | æ^Á | Á & Á, æ&@ • ç á^Á Á@ÁÜ+Á | • æ } É |, ^Á@Á |, ^Á@æÁ ÁÜ • ç } &@Á | } áÉ@ } Á | Á@Á & Á | æÁ, æ&@Ü+É

CAUTION

V@ÁÜ & Á | æÁ Á ^Á • ^ÁÜP SYÁ @ } Á@ÁæÁ |, ^Á@æÁ Á | Á@Á | } áÉV @ { [, ^Á@æÁÜÉ ÁÜVÁ & | } ç | | áá áÜ@Á • ç Á @ } ÁÜ & Á | æÁ ÁÜ+É

CAUTION

V@Á & Á | æÁ Á ^Á • ^Á } Á @ } Á |, á * Á áÜ@ÁæÁ@æÉ • á * Á@Á & Á | æÁ áÜ æÁ æ Á@æÁ æ Áæ æ ^Á@Á |, ^Á E

V@Áæ c'ÁÜ@ | áÁ, æ&@ } • Á áÁ | • Á@Á @ | áÁ | æáÁ } Á@Á | } ç'Á Á@ÁÜ æÁÜ @ } Á |, á * Áæ [] Á ^Á Á@Á | } áÉæ, æ • Á@Á@Á @ | áÁ Á@Á | • ^Á Á | • æ } ÉV @ } Á |, á * Á áÁ • ç | Á Á ^Á • Áæ [ç' * | } áÁ ç'Á@Á @ | áÁ æ Á ^Á } ^Á Á | Áæ áÁ & ç } ÉÜæÁæ áÁ | |, Á@Á æ } á * Á | Á@Á & çÁ @, } áÁ |, E

DANGER

SAFETY SHIELD & DEFLECTOR OPERATION

<p style="text-align: center; margin: 0;">SAFETY SHIELD</p> <p style="text-align: center; margin: 0;">DEFLECTOR</p>	<ul style="list-style-type: none"> Failure to close Safety Shield and Deflector may allow objects to be thrown outward with great force which can cause property damage, bodily injury, or death. <ol style="list-style-type: none"> 1. Keep Safety Shield and Deflector fully closed when cutting grass and weeds to reduce possibility of objects being thrown outward by the Blades if persons are in the area. 2. Before Cutting brush, trimming limbs, or other such operations, raise the Deflector and Safety Shield fully to allow the blades to contact the material if area is clear of passerby. Operator must stop cutting and close shield if passerby enters the thrown objects area or blade contact area. 3. Repair or replace Safety Shield and Deflectors as needed. 4. Always transport with Safety Shield and Deflector closed. <p style="text-align: right; font-size: small; margin: 0;">02967867</p>
---	--

CAUTION

V@Á | æ^Á | Á & Á } &ç | Á | & Á@Á |, ^Á@æÁ Á@Á | Éæ @Á | • æ } Á | Á | æÁæ^É Ü | } æ^Á } áÁ | Áæ^Á Á | | á * Á & Á | } | ^Á Á | ç |, ^Á & Á | | ^Áæ ÁæÁ } ç ^Á } áæ Á | { ÉV @ } Á | æÁ æ Á ^Á } áæ Á | { • Á @Á | Áæ^Á | Á & •, æ&@ Á |, Á ^Á } æ^Á E

PÜVÜ@Á@Áæç | Á } Á, æ&@ áÁ@Á æ c'ÁÜ, æ&@ • ç^Á ÁÜ+Á áÁ@Á | æ^Á | Á & Á • ç^Á ÁÜ+Á æ |, Áææ | æ } Á Á@Á |, ^Á & Á E

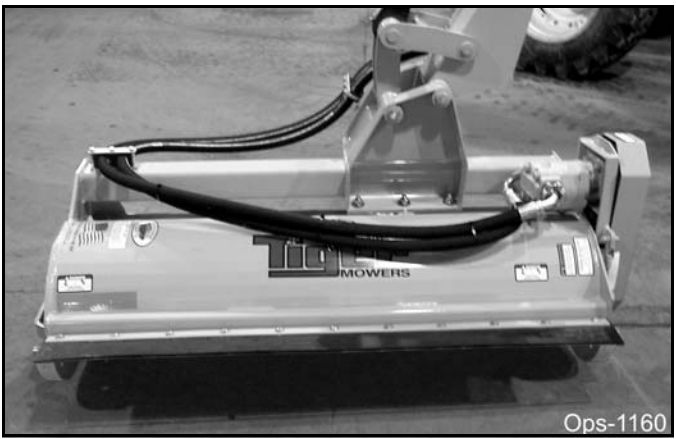
ÜæÁ | U | } æ } Á & ç } Á ÉÇ

CD9F5HCB

CD9F5HCB

⚠️ ¡6cca :`UJ

V@Á €Vá[[{ ÁaaÁ [, ^!Á æ Á^•ã } ^áÁ!Á&` cã *
 à!• @æ áÁf |æ^Á } Ád ÁG& &@• Áã Áãæ ^c!Á |
 { ~ |cá |^Áa!æ &@• Ác@æ^ÁæÁ cãÁ&| •• Á^&ã }
 æ^æÁ ~ ææ^ } Ád Á[] ^ÁGAã &@a!æ &@ÁÓ` cã *
 { ~ |cá |^Áã à• ÁæÁc^Áæ ^ Ácá ^Á æ Ác^!| æÁc@
 [, ^!Áæ •ã * ÁaÁ Á || , Áa[,] Á!Á cãÁ&| } |c^!É
 U^* æá!•• Á Ác@Á a^ Á! Á! æ!æÁa^ã * Á&` dÁc@
 &` c!Á @æÁ] ^áÁ , • Á^Á ææ æá áEM Á) • ^!
 c@æÁ &` c!Á @æÁ Á } } ã * ÁæÁ æã { Á } ^áÉ
 ! } Ác@Á dæd | Á æÁ ~ || Ác@| c^Á a^ |ã * Á { [, ã *
 [] ^!ææ } • ÉÁc@ &` c!Á @æÁ | , • Á! Ác@Á [ã Ác@æ
 c@Á } æ^• ÁæÁ |ãã * ÁæÁ É [c^Ác@Á [, ^!Ác@æ
 æ æÁ! [{ Ác@Á |æ^Áæ áÁæ| , Ác@ &` c!Á @æÁ
 !^* æÁ Á ||Á] ^áÉ



WARNING

U| ^!ææ * Á c@Á { [, ^!Á ã Á æ
 { æ } ^!Ác@æÁ | , • Ác@Á } æ^• Ád Á&| } cã * æ^Á |ã ÁæÁ Á!Áæ| , ã * Á } æ^Á * • Á! Á&| } cæc
 + |æ^Á , ã |Áææ • ^Á | ^! { æ ^ } Áææ æ ^Ád Ác@Á&` c!Á @æÁa!~ { É } æ^• Éæ } áÁ \ } æ^
 ææ&@ ^ } Á æ• É

WARNING

V@Á €Vá[[{ ÁaaÁ&` c!Á @æÁ Á^•ã } ^áÁ!Á&` cã áæáÁ | cææ } ÁG æ ^Á | cææ } Áæ Ác@
 dæd |Á , @^!Á a^ |ã * Á! , æáÁcæ^! ÉÁBYj Yf cdYUHY K Y W HfYf gl Uzi Jb fYj YfgY
 fclUjcb^UJ ^!ææ * Ác@Á [, ^!Á Ác^! • ^Á | cææ } Á æ Áæ • ^Á áb &@ Á! Á^Ác@ [, } Á^ Ác@
 + [] Ác@Á [, ^!Ác@æÉ

WARNING

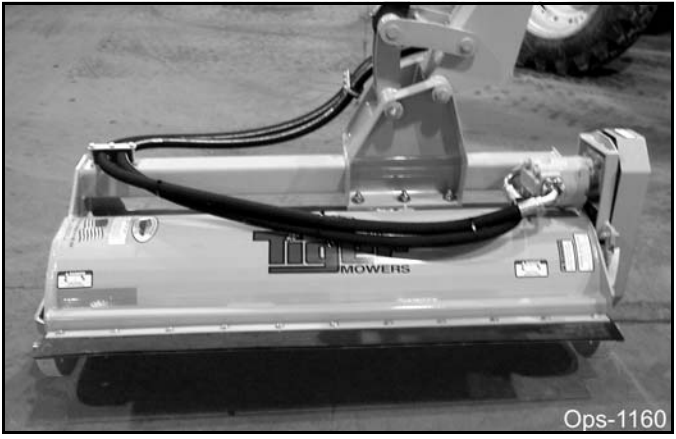
V@Á €Vá[[{ ÁaaÁ ~ ã] ^áÁ ác@Á^Á , ã * ã * Á! • @Á } æ^• Áæ Ác@ } á^áÁ! Á! • @&` cã *
 [] | ÉÓ` cã * Á!æ • Á Á [Á^Á&| { { ^ } á^áÉ

WARNING

Ö | Á | Áæ| , Á) æ^• Á! Á&` c!Á } Á! Ác@Á! ~ } áÉU | • ææ } Á! | ~ } áÁ | | Á! Á ææ cææ Á } æ^Áæ&
 ææÁ ã ã { Á ÁG& &@• ÁæÁ c^Ác@Á! ~ } áÉÉ } á! Á&| } cæcÁ | Á * Á&| } cæcÁ ác@Á! ~ } áÁ ã |
 ææ • ^Á | ^! { æ ^ } Áææ æ ^Á! Á&` c!Á @æÁ } æ^• Éæ } áÁ } æ^Áææ&@ ^ } Á æ• É

⚠️ ¡6cca :`UJ

V@Á €Vá[[{ ÁaaÁ [, ^!Á æ Á^•ã } ^áÁ!Á&` cã *
 *!æ • ÉV@Á&` c!Á @æÁ] ^áÁ , • Á^Á ææ cææ ^á
 + |Á | | ^!Á&` cã * ÉV Áã • ^!Ác@æÁ &` c!Á @æÁ
 ! | cææ * ÁæÁ { æã { Á } ^áÉÁ! } Ácæd | ÁæÁ ~ ||
 c@| c^Áá |ã * Á [, ã * Á | ^!ææ } • ÉÁ&` c!Á @æ c
 • | , • Á! Ác@Á [ã Ác@æÁc@Á } æ^• Áæ ^Á |ãã * ÁæÁ
 ææ • Ác@Á &` c!Á Á • @æÁ [c^Ác@Á [, ^!Ác@æ
 æ æÁ! [{ Ác@Á |æ^Áæ áÁæ| , Ác@ &` c!Á @æÁ
 !^* æÁ Á ||Á] ^áÉ



DANGER

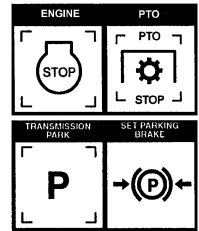
V@Á | cææ * Á | æc@Á Ác@Á æ&@ ^Ác@æ^Áa^Á } Á^•ã } ^áÁæ áÁc@ c^ÁÁ!Á! ~ ^áÁ • ^É
 P | , ^c^!ÉÁc@ÁæÁ^Á&` |ãÁæÁ | | Á | æc@Á ác@æ É | |æÁ áb &@ Á ~ &@æ Á ^cæÁ æá
 |æ^Á æá Á&| } &^c^Á d^ &c^!Á • ÉÁU &@Á] æÁ&| |ãÁææ • ^Ác@Á | | ^! } Á áb &@ Á! Á^Ác@ [, }
 [~ c æáÁæÁ ^! Ác@Ác^! | &æ • ÉÁV | Á^á &` Ác@Á [, • ææÁ Á Á | | ^!c Ááæ æ^ÁÉ^Áã ~
 ã b | É | Ác^! } Á^æc@Á ^c^! Áæ| , Ác@ &` cã * Á!æÁ^Á Á&| } cæcÁ • @&` á • cæÁ • ÉÁÜTÉD

Uæá! U| ^!ææ } Á! &ã } ÁÉH

CD9F5HCB

DANGER

OOZUOAK aēā * A@Aī aēd | A^ aēāē, aē • A^ A@Aī aē | ā * Aī aē Aē āē | A^ c
 @Aī aēd | Aī aē • { ā • ā } Aē Aī aē | ā * A^ aēāēāē } aē A@AUUUE d] A@
 ^ } ā ^ A^ { | ç^ A@A^ A^ āē āē Aī Aē | Aē | [cā * Aī aē • Aī Aī d] EAU aē A@
 d aēd | A @Aī ç^ Aī d Aē | Aē * Aī Aī aē | ā * A^ aē Aī Aī ^ ç^ } o@ Aī aēd |
 - [{ Aī | | ā * EAU ^ ç^ | Aī ā { | } o@ Aī aēd | A@ Aī Aī [cā * Aī Aī @ A@ A) * ā ^
 ā A } } ā * EAU] ^ aē A@ Aī aēd | Aī } d [| • Aī { A@ Aī aēd | A^ aē } | EAU OED



WARNING

U^ | | { A^ | ç^ A^ A^ } aē • Aē ā A^ ā | aēāē } Aē d | | āā * Aī A@Aī aē c^ } aē & A^ & cā } EAU • ^ | A@
 ~ } aē Aī | |] | A^ ā | aē aē Aē Aī ^ & āā ā Aī A@ Aī ā | aēāē } A & @ ā ^ | Aē ā Aē | Aī | o Aē ā A^ o Aē
] | |] | Aī | ^ ā | A@ aē | A Aī Aī | |] | A^ | ç^ A^ A^ } aē Aē ā Aī aē aē A@ A@] | ^ { ^ } o Aē Aī | | ā
 [] ^ | aē * Aē } āāē } Aē | | ā Aē • Aē { | |] ^ } Aē | Aē ā Aī [• ā | A^ Aī ā • Aē bī ^ Aī Aī ç^ }
 ā aē A@ A OED

CD9F5HCB

Uāā^ |

U] ^ | aē } A^ & cā } Aē F

CD9F5HCB

CD9F5HCB

Ùà^!

U] ^! aq̄ } Á^ & ā } Á Ë G

MAINTENANCE SECTION

T aq c} a} &^Á^&cā } Á Ē

MAINTENANCE

WEEKLY OR EVERY 40 HOURS

ITEM	SERVICE	COMMENTS
Ü[æ^ ÁJ] q á^	Š^ à!ææ	Ôç^!^ Á^ ÁQ^ ~!• Á! Á^ Á^ |^

WEEKLY OR EVERY 50 HOURS

ITEM	SERVICE	COMMENTS
Q Áæ \ Á^ áÉQ^ æ Qæç! 10 micron filterD	Ôç^ *^	Ôç^ *^ Áæç! Áá• ç^ ÁQ^ ~!• Á! |^ Éæç} Á ^ç^!^ Á^ ÁQ^ É^ Áæç! Á! Áá áææ^ áÁ^ Á ç^ Á^ çæç} Á áææç! É
Q Éš^ Á^ á @Ú!^••~|^ Qæç! 10 micron filterD	Ôç^ *^	Ôç^ *^ Áæç! Áá• ç^ ÁQ^ ~!• Á! |^ Éæç} Á ^ç^!^ Á^ ÁQ^ É^ Áæç! Á! Áá áææ^ áÁ^ Á ç^ Á^ çæç} Á áææç! É

MONTHLY OR EVERY 150 HOURS

ITEM	SERVICE	COMMENTS
P^ á!æ |æÁQ^ æ Áç^|Á P^ áÉVæ \ ÁQ!^æç!	Ôç^ & Ô|^æç |ç^ & ç^ |æç	Çááæ Á^ á^ á^ Ô|^æç Á! Á^ |æç Ô|^ { } Á^ Á^ ~ á^ á
Ü^ æ Áá^ Á^ ] ^ | | ç^ ç^ H F| É È | F| É È |	T æ Á É È È È ÁÁÁÁÁ ÁÁÁÁÁ ÁÁÁÁÁ	

YEARLY OR EVERY 500 HOURS

ITEM	SERVICE	COMMENTS
Ü] q á^ ÁQ!^æ^	Ôç^ *^	
P^ áÉVæ \ ÁQ^ æ	Ôç^ *^	
Q Áæ \ Á^ áÉQ^ æ ÁQæç! 10 micron filterD	Ôç^ *^	
Q Éš^ Á^ á ÚQæç! 10 micron filterD	Ôç^ *^	ÁÁÁ! Ôç^ *^ Á^ ç^ } Á áææ^ á á^ Á^ çæç} Á áææç! É
P^ áÉVæ \ ÁQ!^æç!	Ôç^ *^	

Üæç! T æç ç^ ç^ & Á^ Á^ ç^ } Á È

MAINTENANCE

MAINTENANCE

TROUBLESHOOTING (Continued)

MAINTENANCE

SYMPTOMS	CAUSE	REMEDY
Motor runs but will not cut	FEEDING GAULT	FEEDING GAULT
Mower turns slowly or not at all	FEEDING GAULT HESITANT	FEEDING GAULT HESITANT
Pump will not work	FEEDING GAULT	FEEDING GAULT
Motor will not work	FEEDING GAULT	FEEDING GAULT

NOTE: ...

Ua... T a... } A E

MAINTENANCE

LUBRICATION RECOMMENDATIONS

MAINTENANCE





			Ú^&{ { ^} á^á Mobil Lubricant
Viæd |P^ á!æ |æ• Á	Ü^•^!ç[á	RÖEEO	T[àq~ áí Á G
T[, ^!P^ á!æ |æ• Á	Ü^•^!ç[á	QÜAÍ ÁE æY ^æE, Á^ { }	T[àqÖVÒi ÁÍ T
P[{ æÁ^ { } ^!æ |^• Á	FÍ »AÜæE M Á	QÜAÍ ÁE æY ^æ	P` q í Pí Í E [àqÖVÒi G Á
QæÁÜæÖæà [c Á	Ü^•^!ç[á	ÚEÜÁ^ } @æÁ^d^ { ^ Ú!••^!^ÖæS^ à^	T[àqí ÁÜ^ } @æÁ^æ S^ á!ææ öSUÁÍ Y E E [àq Ö^çæÁ^ } @æÁ^æÁq íí Y E E
Ö^ æ!ÁÜ @æBÁÖ! [^ } á	Ü! |ÁÜ @æQæD	Šæ { EÖ [ { ] |^ç PŠÖ ÖEÜÁGE	T[àqÖ^çæí Ád^ { ^ÁÖ!^æ^ T[àq^!^æ^ÁÖT EÜ
Ö!æ^ÁÜ @æÖ [ ^ ] |^! QæÁæ áÁÜ [æ^ D	Ö!^æ^ÁÖ^ }	Šæ { EÖ [ { ] |^ç PŠÖ ÖEÜÁGE	T[àqÖ^çæí Ád^ { ^ÁÖ!^æ^ T[àq^!^æ^ÁÖT EÜ
Ö!æ^ÁÜ @æÄ |^É W E q öBÁÜc àÁÜ @æc	Ö!^æ^ÁÖ^ }	Šæ { EÖ [ { ] |^ç PŠÖ ÖEÜÁGE	T[àqÖ^çæí Ád^ { ^ÁÖ!^æ^ T[àq^!^æ^ÁÖT EÜ
Ó [{ ÁÜ, æ | Ó [{ Ö^ |æ á!ÁÜ [ö Q [æ^ ÁBÁÖ [{ D	Ö!^æ^ÁÖ^ } Á	Šæ { Ö [ { ] |^ç PŠÖ ÖEÜÁGE Á	T[àqÖ^çæí Ád^ { ^ÁÖ!^æ^ T[àq^!^æ^ÁÖT EÜ
Ö^ & ÁÖ [{ ÁÜ [öB Ö^ & ÁÜ [ÁÖá•ç ^ } c Ü [æ^ ÁBÁÖæD	Ö!^æ^ÁÖ^ }	Šæ { Ö [ { ] |^ç PŠÖ ÖEÜÁGE	T[àqÖ^çæí Ád^ { ^ÁÖ!^æ^ T[àq^!^æ^ÁÖT EÜ
Ö^ & ÁÜ] á^ ÇÜ [æ^ D	Ö!^æ^ÁÖ^ }	Šæ { Ö [ { ] |^ç PŠÖ ÖEÜÁGE Ü^ } @æÁ^æ^	T[àqÖÜPÖÁGEÉ Vá ^!ÁÜæöí í E E E E

Úæ^! T æ ç } æ & ÁÜ^ & ç } Á E





MAINTENANCE

MAINTENANCE

TORQUE SPECIFICATIONS

Nominal Dia. (in.)	threads per inch	 Grade 2			 Grade 5			 Grade 8			 Grade 9		
		Tightening Torque			Tightening Torque			Tightening Torque			Tightening Torque		
		Lubed K = 0.15	Dry Plated K = 0.17	Dry plain K = 0.20	Lubed K = 0.15	Dry Plated K = 0.17	Dry plain K = 0.20	Lubed K = 0.15	Dry Plated K = 0.17	Dry plain K = 0.20	Lubed K = 0.15	Dry Plated K = 0.17	Dry plain K = 0.20
Unified Coarse Thread Series													
1/4	20	49 in-lbs	59 in-lbs	66 in-lbs	76 in-lbs	86 in-lbs	101 in-lbs	107 in-lbs	122 in-lbs	143 in-lbs	126 in-lbs	143 in-lbs	168 in-lbs
5/16	18	101	122	135	157	178	209	221	251	295	259	294	346
3/8	16	15 ft-lbs	18 ft-lbs	20 ft-lbs	23 ft-lbs	26 ft-lbs	31 ft-lbs	33 ft-lbs	37 ft-lbs	44 ft-lbs	38 ft-lbs	43 ft-lbs	51 ft-lbs
7/16	14	24	29	32	37	42	49	52	59	70	61	70	82
1/2	13	37	44	49	57	64	75	80	90	106	94	106	125
9/16	12	53	63	70	82	92	109	115	130	154	135	153	180
5/8	11	73	87	97	113	126	150	159	180	212	186	211	248
3/4	10	129	155	172	200	227	267	282	320	376	331	375	441
7/8	9	125	150	167	322	365	429	455	515	606	533	604	710
1	8	187	225	250	483	547	644	681	772	909	799	905	1065
1 1/8	7	266	319	354	596	675	794	836	966	1288	1132	1283	1510
1 1/4	7	375	450	500	840	952	1121	1173	1363	1545	1817	1810	2130
1 1/2	6	652	783	869	1462	1657	1950	2031	2688	3162	2779	3150	3706
Fine Thread Series													
1/4	28	56 in-lbs	68 in-lbs	75 in-lbs	87 in-lbs	99 in-lbs	116 in-lbs	123 in-lbs	139 in-lbs	164 in-lbs	144 in-lbs	163 in-lbs	192 in-lbs
5/16	24	112	135	150	174	197	231	245	278	327	287	325	383
3/8	24	17 ft-lbs	20 ft-lbs	23 ft-lbs	26 ft-lbs	30 ft-lbs	35 ft-lbs	37 ft-lbs	42 ft-lbs	49 ft-lbs	43 ft-lbs	49 ft-lbs	58 ft-lbs
7/16	20	27	32	36	41	47	55	58	66	78	68	78	91
1/2	20	41	49	55	64	72	85	90	102	120	105	120	141
9/16	18	59	71	78	91	103	121	128	146	171	151	171	201
5/8	18	82	99	110	127	144	170	180	204	240	211	239	281
3/4	16	144	173	192	223	253	297	315	357	420	369	418	492
7/8	14	138	165	184	355	403	474	502	568	669	588	666	784
1	14	210	252	280	542	614	722	765	867	1020	896	1016	1195
1 1/8	12	298	357	397	668	757	890	1083	1227	1444	1269	1439	1693
1 1/4	12	415	498	553	930	1055	1241	1509	1710	2012	1768	2004	2358
1 1/2	12	734	880	978	1645	1865	2194	2668	3024	3557	3127	3544	4169

Torque values for 1/4 and 5/16-in series are in inch-pounds. All other torque values are in foot-pounds. K = 0.15 for "lubricated" conditions
 Torque values calculated from formula T=KDF, where K = 0.17 for zinc plated and dry conditions D = Nominal Diameter
 K = 0.20 for plain and dry conditions F = Clamp Load

Torque-Tension Relationship for Metric Fasteners													
Nominal Dia. (mm)	Pitch	 Class 4.6			 Class 8.8			 Class 10.9			 Class 12.9		
		Tightening Torque			Tightening Torque			Tightening Torque			Tightening Torque		
		Lubed K = 0.15 (ft-lbs)	Dry Plated K = 0.17 (ft-lbs)	Dry plain K = 0.20 (ft-lbs)	Lubed K = 0.15 (ft-lbs)	Dry Plated K = 0.17 (ft-lbs)	Dry plain K = 0.20 (ft-lbs)	Lubed K = 0.15 (ft-lbs)	Dry Plated K = 0.17 (ft-lbs)	Dry plain K = 0.20 (ft-lbs)	Lubed K = 0.15 (ft-lbs)	Dry Plated K = 0.17 (ft-lbs)	Dry plain K = 0.20 (ft-lbs)
3	0.5	0.28	0.32	0.38	0.73	0.82	0.97	1.0	1.2	1.4	1.2	1.6	
3.5	0.6	0.44	0.50	0.59	1.1	1.3	1.5	1.6	1.9	2.2	1.9	2.5	
4	0.7	0.66	0.74	0.87	1.7	1.9	2.3	2.4	2.7	3.2	2.8	3.8	
5	0.8	1.3	1.5	1.8	3.4	3.9	4.5	4.9	5.5	6.5	5.7	7.6	
6	1	2.3	2.6	3.0	5.8	6.6	7.7	8.3	9.4	11	9.7	13	
6	1.25	2.1	2.3	2.7	5.3	6.0	7.0	7.6	8.6	10	8.8	12	
7	1	3.8	4.3	5.0	9.7	11	13	14	16	19	16	22	
8	1	5.9	6.6	7.8	15	17	20	22	24	29	25	34	
8	1.25	5.5	6.2	7.3	14	16	19	20	23	27	24	31	
10	1.25	11	13	15	29	33	39	42	48	56	49	66	
10	1.5	11	12	14	28	32	37	40	45	53	47	62	
12	1.25	21	23	28	53	60	71	76	86	101	89	119	
12	1.5	20	22	26	51	58	68	73	82	97	85	113	
12	1.75	19	21	25	49	55	65	70	79	93	81	108	
14	1.25	26	29	34	66	75	89	95	108	127	111	148	
14	1.5	28	32	37	72	82	96	103	117	138	121	161	
14	2	30	34	40	78	88	104	111	126	148	130	173	
16	1.5	50	57	67	129	146	171	184	208	245	215	287	
16	2	47	53	62	121	137	161	173	196	230	202	269	
18	1.5	73	82	97	187	212	249	268	303	357	313	417	
18	2.5	65	73	86	167	189	222	239	270	318	279	372	
20	1.5	101	115	135	270	306	360	374	424	498	437	583	
20	2.5	91	104	122	236	267	314	337	382	449	394	525	

Clamp load calculated as 75% of the proof load for specified bolts. K = 0.15 for "lubricated" conditions D = Nominal Diameter
 All torque values are listed in foot-pounds K = 0.17 for zinc plated, dry conditions F = Clamp Load
 Torque values calculated from formula T=KDF, where K = 0.20 for plain and dry conditions

EV@•^As^A^}^|apA^!as}•E@&A[~|A!A|}^æ|•A^A^ç&A^æ~apA^A^casA^!as}•E

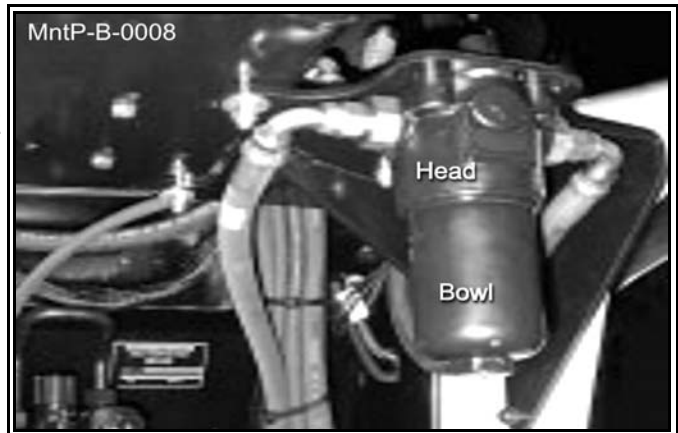
Uas^: T æ ç } æ & A^! } A E

MAINTENANCE

MAINTENANCE

DETAILED MAINTENANCE

REPLACING HIGH PRESSURE HYDRAULIC FILTER ELEMENT:

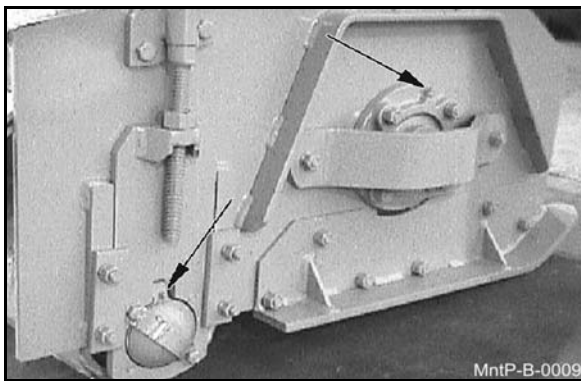


0) ~ !^Á••c\ Á @ Áà^} Á• @ á[, } Áæ áÁá^É] !^•• !á^áÉŠ &æ ÁPá @Ú!^•• !^Á@á!Á@ ~•á * É Ö } -á{ Á@Á@Á\ \ } ÁÁ ÁáÁá •æ^áÁ æ&@• @Á\ \ } Á Á } Á@Áá!Á [á^Áæ ÉExample: V3.0510-06 (world line 100, HD049 model)ÁŠ &æ @Á[æ { Á -Á@ÁPá @Ú!^•• !^ÁÖ , |ÉÁV•á * Á@æ } ! | | áæ Á } æ } ^!Á \ } &@ | Á!æ&@ ÁÁ } Áá Áæ & \ } c!&[& , á^Á[æ] ÉÖ [\ á * Áæ@Á [æ { Á -@Á[, |DÁ Á^ [ÁÁ@Á[, |Á [{ Á@Á@æÉV@ -á•Á\ }] ^Á [æ] •Á á!Á^ { Áá @Á@Á Éá *] æ•• Á@Á•^æá * Á-æ ÉÁU } &Á@Á[Éá * Á@æ &^æ^áÁ@Á^æá * Áæ Á@Á[, |Á @ ~ |áÁ } á^Á^É Væ á * Áæ^Á [ÁÁ [] Á@Á[, |Éá á @Á [{ Á@Á@æÉWARNING: bowl will be full of oil!

Ú ~ !Á@Á áÁ [{ Á@Á[, |Á á Áá } æ ^!ÉÁV@Á áÁ @ ~ |áÁáÁ } •æ^!áÁ } æ á æ^áÁæ &æ •^Á@Á[, @ [* @Á\ \ } Á Á • æ^Á ÉÖ Á@Á •æ^Á -Á@Á[, |ÁááÁ!Á!^•• } ÉÁ [{ ÁÁ@Á |áÁ\ \ } Á [{ @Áá!Á@æÁ Á ~ |á * Á á@Á [æ] Á [æ] ÉÖá [•^Á -Á@Á•^áÁ\ \ } Á [| | | ÉÁV•á * Á [~ |Áá * ^!ÉÁæ æ áÁ á!æ Á@Á Éá * Á@Á [Á -Á@Á , Á\ \ } Á á@Á á@Á •æ^Á Á\ \ } Á@Á [~ } æ * Á[•• , á@Á Á@Á ÉÖ) •^Á@Á@Á\ \ } Á Á | Á^æ^Á } Á@Á [•• ÉÖ Á@Á á@Á •] ^Á@Á Éá * Á@Á Á@Á -á^á áÁ@Á[, |Á áÁ á!æ Á á@Á ÉÁV•á * Áá [& , á^Á[æ] É & \ , Á@Á[, |Ááá Á á@Á@æÉÁ) •!á * Á@æ @Á[, |Á@Á [Á^] Á & [•• É@ÁááÁ á@Á@æÉÖ] æ ^ÁÁ Áá @) Á@Á[, |Á á Á@Á@æÉÁ •á * Á@ •] æ } ^!Á \ } &@ | Áæ&@ ÁV@Á [æ] Á -Á@Á[, |Á á!Áá & \ { ^Á@Á } &Á@Á Éá * Á } * æ^• Á@Á^æá * -æ ÉÁU } &Á@Á[, |Á@Á [æ { ^áÁ ~ ÉÁá É -Á@Á[, |Á ÁÁÁ } ÉV@Á } •^Á@Á@Á Éá * Á Á^æ^á] | | | Á á@Á Á@Á^æá * Áæ ÉÖ \ \ } &@ * ^Á ~ Áá ÁÁÉæ•• { á!ÁÁ [, Á [] |ÁÉÁUæ@Á Á æ&@ Áá á }] ^Á@Á Áá!Áæ^Á&@ & á * Á@Á@Á!ÁÁ [Á áÁáá * Á [{ Á@Áá!Áæ•• { á!ÉÁ } |ÁÁ@Áá!Á\ \ } c -á•Áá ÉÁ@ ~ !•Á -Á } ^!æ] É@ } Á^æ^ Á@ ÉÁ@ ~ !•DÁ Á @ } Áááæ^áÁ -Á•Dáá } Áááæ | É

GREASING CUTTERSHAFT - FLAIL MOWERS

Š &æ Á!Áæ^Á!•Á } Áá@Á } áÁ -Á & c!• @æ@ Á@•^ÁÁ &æ^Á } Á@Ááá * ÁÁ c!ÉP [| { áÁ } áá } • !^~ áÁ } ^Á Á [Á { } • Á Áá@Ááá * ÉÁ •á * Áá@ { ÉÖ [] |ÁÁ@Á^ ÁÚ!^•• !^Á!Áæ^Á } † | { á * Á PŠÖ ÖÉUÁ-ÁÉÁ } ^Áááá } • ÉV@Á Á Á ÁÁ } ^Á á@Áá æ ááÁ!Áæ^Á } Ááá Á!Áá 8 hour intervals. CAUTION: Over greasing may cause premature seal failure.



Úæ^! T æ c } æ & Á^ &á } Á ÉG

MAINTENANCE

MAINTENANCE

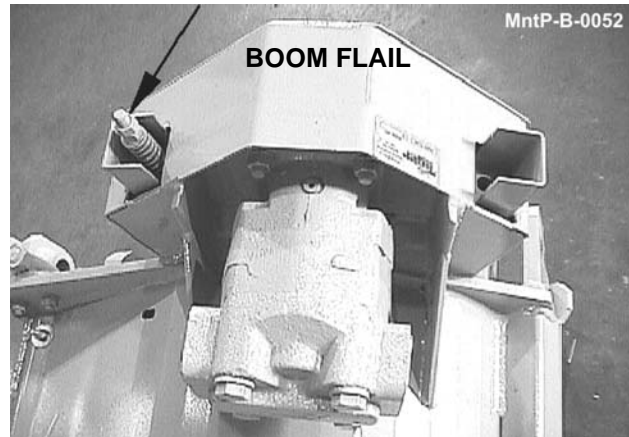
GREASING GROUND ROLLER SHAFT-FLAIL

Grease the ground roller shaft-flail at 8 hour intervals. **CAUTION: Over greasing may cause premature seal failure.**



ADJUSTING/CHECKING BELT TENSION

Adjust the belt tension on the boom flail. **(NOTE: Location of adjustment nuts may vary on flail cutter heads.) Be sure to replace the belt cover BEFORE operating mower!**

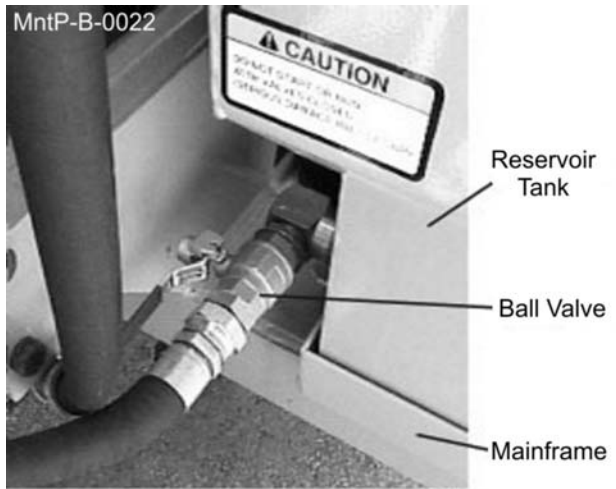


MAINTENANCE

MAINTENANCE

BALL VALVES

THE BALL VALVES MUST BE OPEN (handle parallel with valve) WHEN TRACTOR IS RE-STARTED OR PUMP IS COUPLED TO MOTOR OR PTO!

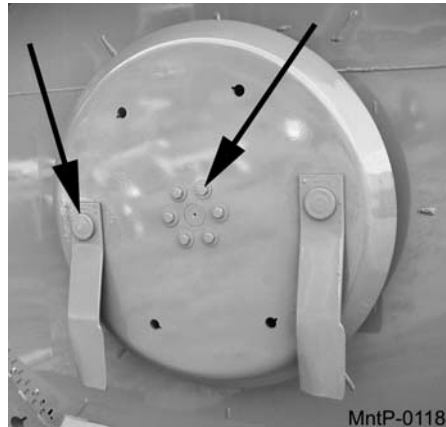


TIGHTENING KNIFE BOLTS AND DISK BOLTS:

BOOM ROTARY (SABER X3)

FÉD +Á } áÁ [~ } ç * Á [| ÇÁ æDÍ | ~ ^ÁÍ ÁÍ ÉÁÉ
| à • É à | æ á É

Í È +Á | æ Á [~ } ç * Á [| ÇÁ æDÍ | ~ ^ÁÍ ÁÍ ÉÁÉ
| à | æ á É æ Á & ç Á Í FÁÇÉ ÁÉ Á • É á É

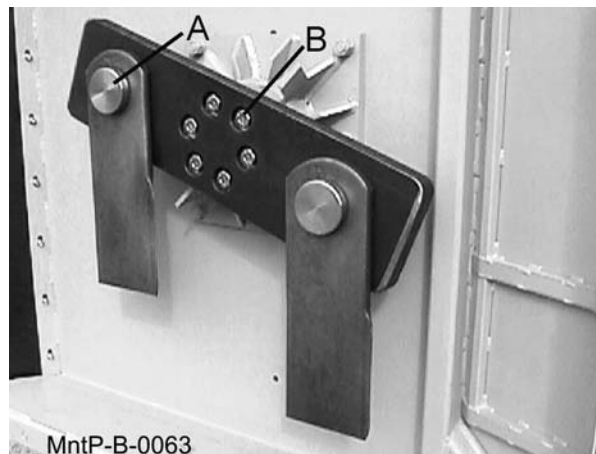


BOOM ROTARY

SABER ROTARY

S) áÁ [~ } ç * Á [| ÇÁ æDÍ | ~ ^ÁÍ ÁÍ ÉÁÉ
| à | æ á É

HÉ +Á | æ Á [~ } ç * Á [| ÇÁ æDÍ | ~ ^ÁÍ ÁÍ ÉÁÉ
| à | æ á É & ç Á Í FÁÇÉ ÁÉ Á • É á É



SABER ROTARY

Ùæá:

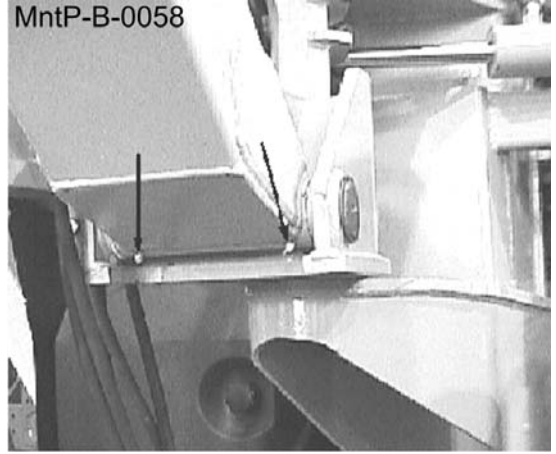
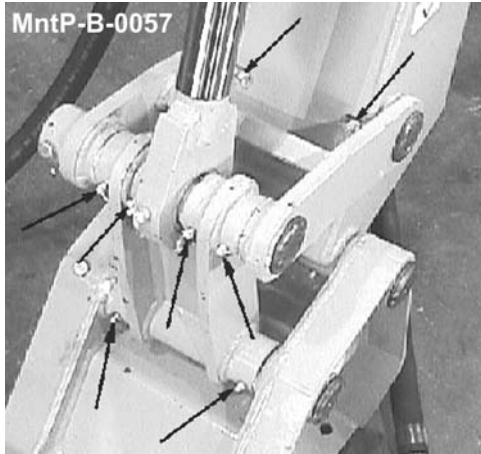
T æ ç } æ & Á ^ & ç } Á ÈÍ

MAINTENANCE

GREASING POINTS ON BOOM AND PIVOT

Š[&æ^Á*!^æ^Á:^\ \ •ÁÇ D[] Á ^& Á] á[óæ • ^ { à | ÉÇDÁ } Áç@Á^& Á^} áÁ - Á^& } á æ^ Áà[[{ ÉÇDÁæÁ æá Ð •^& } áæ^ Á[[{ Á] á dæ) áÁÇDæÁ, á^!Á} áÁ - Á æá Á[[{ ÉÇDÁæÁæÁ { ÉÇDÁæÁæÁ } | ^çÁOçd^ ^Á!^••!^Á!^æ^ & } -!{ á * Á] Á SÖÇDÁÁGEÁ] ^&æææ) •Á} çÁ!^æ^Á^* á Á] Á | d^ á^Á[{ Á} á •É

SABER



MAINTENANCE

Ùæ^!

T æ ç) æ & Á^&ç } Á Èí

MAINTENANCE

MAINTENANCE

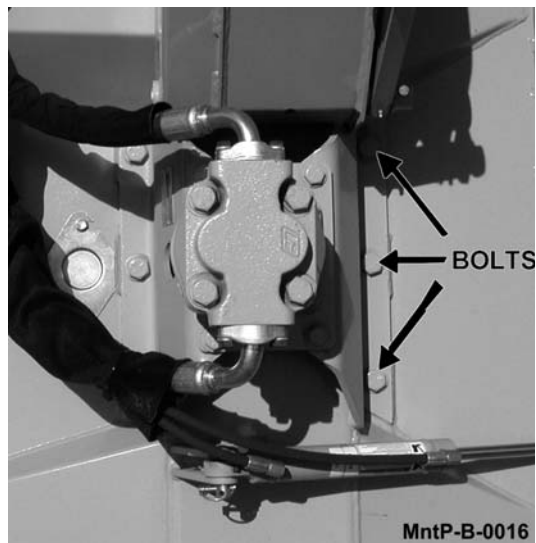
GREASING SPINDLE

Š[&œ^Á!^æ^Áãã * Á) Áã •ã^Á -Á^&Á@~•ã *ÉQb&Áv^!ÁU] ã à^ÁŠ~ à!ãã ã] œó~ { à^!ÁÉ! | €€€Áã ã
•] ã à^Á@~•ã *ÉQb] œó~ à!ãã ã) ãÁ~ à!ãã ã] ^^•Á~ ã^ Áq] Á] ã à^Á^ãã^ à!ãã^ Á] ã à^Á~ ^^| Á!
^ç!^ Á €Á@~!•Á Á•^É



TIGHTENING SPINDLE BOLTS

V@Á] ã à^Á [~ } ã * Á[| ó Á @~ | á Á^&@&^áã ã
!^ç!~ ^áÁãã Á!Áç!~ Á€Á@~!•Á Á!çã^ÉM | ~ ^
œÁç Dá[| ó Á @, } Á^|, Á ÁHFAãã•É



Ùæ^!

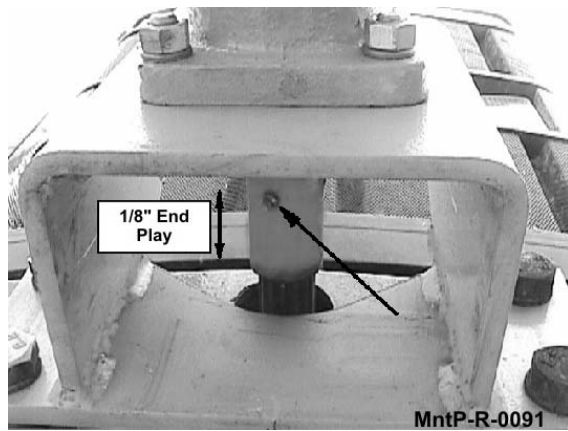
Tã ç } ã &^Á^ã } Á Èí

MAINTENANCE

MAINTENANCE

GREASING PUMP DRIVESHAFT COUPLER

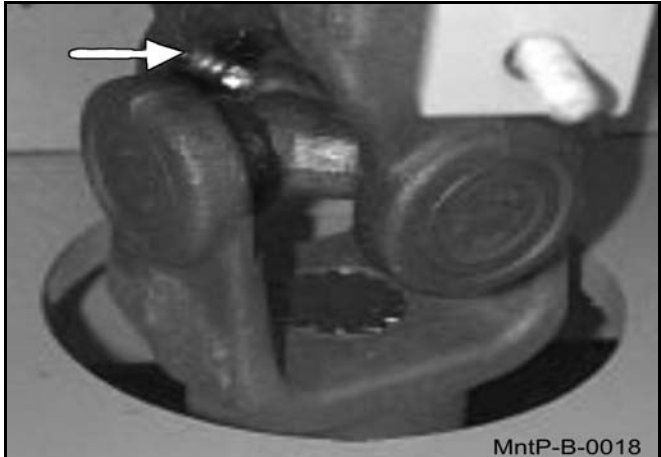
Y a@A ^) * a ^A . d]] ^ a E A } . ~ | ^ A a ! q . ^ . @ e o A a q a } { ^ } c
 a ^ A * ! a e] a * A & [~] | ^ ! A a a a A . | a a q * A a a e A a a a A a A f | o E
 O [~] | ^ ! A @ ~ | a A | a ^ A ! ^ ! ^ A } a o a q] | | e a a e | ^ F B +
 [^ } a A | a e E Q a e ~] | ^ ! A a [^ A] [o A | a ^ A ! ^ ! ^ E a .] ^ & c
 f | A [[. ^ A ~ { }] A [~ } o A [| o E A ! A a a e a e ^ a A ! A [[. ^
 & a e \ A . @ e o A a a a e e ! E A Q b & o A S a o a { E O [{ }] ^ e
 O e d ^ { ^ A ! ^ . . ~ | ^ A ! ^ a e ^ A & [} f | { a * A e A p S O e E O U
 H G E A] ^ & a a e a a } . A q d A & [~] | ^ ! A } e A ! ^ a e ^ A a * a .
 d A] | d ^ a ^ A + [{ A ^ } a . E A O ! ^ a e ^ A a a a A ! A ^ e ! ^ A i
 Q ~ ! . E O [A] [o A e ! A ! ^ a e ^ E



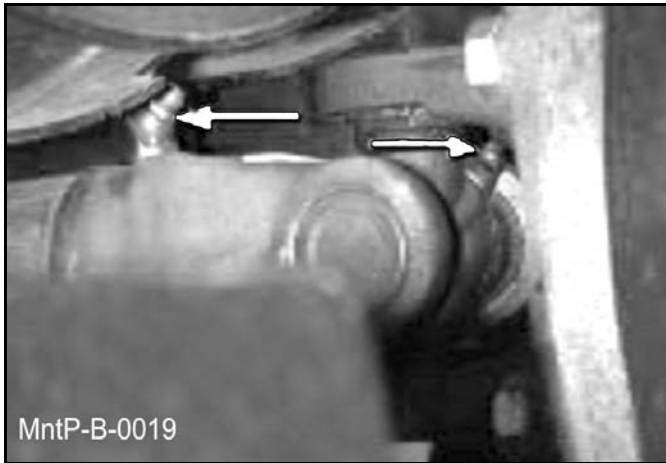
MntP-R-0091

DRIVE SHAFT YOKE, U-JOINT 7STUB SHAFT

Y a@A ^) * a ^A . d]] ^ a E A a b & o A S a o a { E O [{ }] ^ e
 ^ e d ^ { ^ A ! ^ . . ~ | ^ A ! ^ a e ^ A & [} a { a * A e A p S O e E O U
 H G E A] ^ & a a e a a } . A q d A } e ! . a A q o A a a A a] A [\ ^
 ~ } e A ! ^ a e ^ A a } ^ a e . A a a @ A ^ a e E O ! ^ a e ^ A a @ { A a a a
 [! A e ! ^ A A Q ~ ! . E



MntP-B-0018



MntP-B-0019

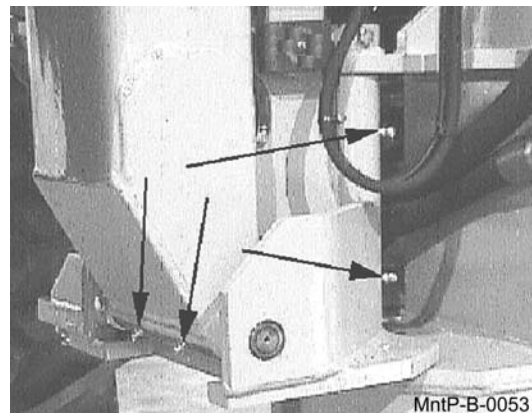
U a a ^ ! T a a e e } a e ^ A ! ^ & a } A e i

MAINTENANCE

MAINTENANCE

GREASING THE BOOM SWIVEL

Š[&æ^Á@Á^|\Á} Á@Á æ Á, æ^|Á[••ÁGÁ æ
à[[{ Á æ[á[••ÁGÁ æ á} Á[c@^} á•Á Ác@Á[[{
•, æ^|Á&|á á^|ÁQb&Sæ { É[]|^cÁOcd^ ^
Ú|^••~|^Á*|^æ^Á&|} f|{ á *Áq ÁpSÓcÉ QUÁHGE
•]^&æææ} Á} qÁ|^æ^Áá^*á•Áq Á| | d~á^Á|[{
^}á•Áç^|Á@~|^É



MntP-B-0053

BOOM SWIVEL



MntP-B-0060

SABER SWIVEL

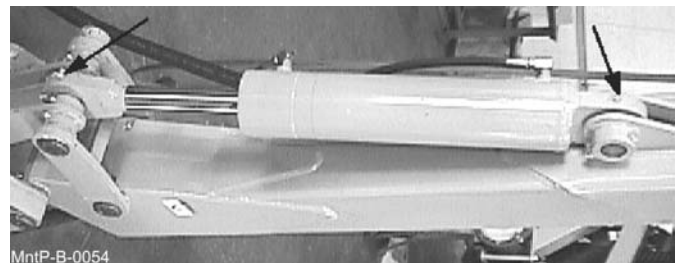


MntP-B-0061

SABER SWIVEL

GREASING BOOM CYLINDER(S) PIVOT POINTS

Š[&æ^Á@Á^|\Á} Á@Á cÁ} áÁæ *Á Á&|á á^|Áæ} á
[]Á[áÁ} áÁæ *ÉQb&Sæ { É[]|^cÁOcd^ ^
Ú|^••~|^Á*|^æ^Á&|} á{ á *Áq ÁpSÓcÉ QUÁHGE
•]^&æææ} •Á} qÁ|^æ^Áá^*á•Áq Á| | d~á^Á|[{
^}á•ÉV@Á| | &á~|^Áá Áá^Á~^áÁ} Ác@Á æ
à[[{ Á&|á á^|Á•^&|} áæ^Áà[[{ Á&|á á^|Áá^&|
] æ[cÁæ} áÁ•, æ^|Á&|á á^|Ááæ} Á| :ÁæÁ Á@~|^
á c|çæ} É



MntP-B-0054

Úæá^|

T æ c} æ &^Á^&ç} Á È|

MAINTENANCE

MAINTENANCE

ROTARY KNIFE REPLACEMENT (TRB 50)

1. Turn the engine off and disconnect the battery.

2. Remove the old rotary knife by turning the knife clockwise until it is loose.

3. Clean the mounting area and inspect for damage. If the mounting area is damaged, it must be replaced.

4. Install the new rotary knife by turning the knife counter-clockwise until it is tight.



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

ROTARY KNIFE REPLACEMENT (SABER 50" ROTARY)

1. Turn the engine off and disconnect the battery.

2. Remove the old rotary knife by turning the knife clockwise until it is loose.

3. Clean the mounting area and inspect for damage. If the mounting area is damaged, it must be replaced.

4. Install the new rotary knife by turning the knife counter-clockwise until it is tight.

REPLACEMENT OF ROTARY DISK (TRB 50)

1. Turn the engine off and disconnect the battery.

2. Remove the old rotary disk by turning the disk clockwise until it is loose.

3. Disks must be inspected daily for hairline cracks between spindle mounting bolts or around the knife mounting bolts. These cracks indicate metal fatigue caused by severe abuse. If cracks are present the disk must be replaced.

4. Clean the mounting area and inspect for damage. If the mounting area is damaged, it must be replaced.

5. Install the new rotary disk by turning the disk counter-clockwise until it is tight.

REPLACEMENT OF SABER 50" ROTARY BLADE BAR

1. Turn the engine off and disconnect the battery.

2. Remove the old rotary blade bar by turning the blade bar clockwise until it is loose.

3. Clean the mounting area and inspect for damage. If the mounting area is damaged, it must be replaced.

4. Install the new rotary blade bar by turning the blade bar counter-clockwise until it is tight.

5. Tighten the blade bar bolts to the specified torque.

Uaah:

T aah e} aah A^ & aah } A EEE

MAINTENANCE

HEAVY DUTY SPINDLE ASSEMBLY INSTALLATION AND BEARING ADJUSTMENT



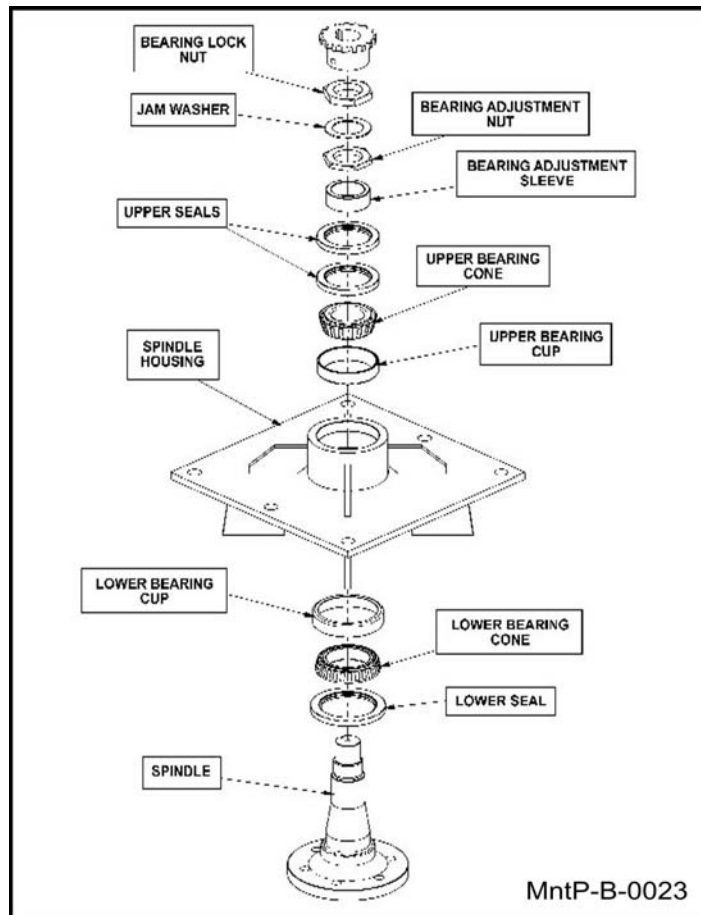
WARNING: Read the instructions carefully before attempting to assemble or adjust the spindle assembly. Failure to follow the instructions may result in injury or damage to the equipment.

NOTE: The grease zerk and gussets are located on the top side of the spindle housing. Be sure the spindle is assembled correctly.

Always use the correct tools and techniques when working on the spindle assembly. Refer to the maintenance manual for more information.

THE SPINDLE ASSEMBLY

The spindle assembly consists of the following components:



MAINTENANCE

Uua^:

T aq c} aq & A^ & aq } A ECI

MAINTENANCE

MAINTENANCE

CUTTERSHAFT BEARING REPLACEMENT FOR FLAIL MOWERS

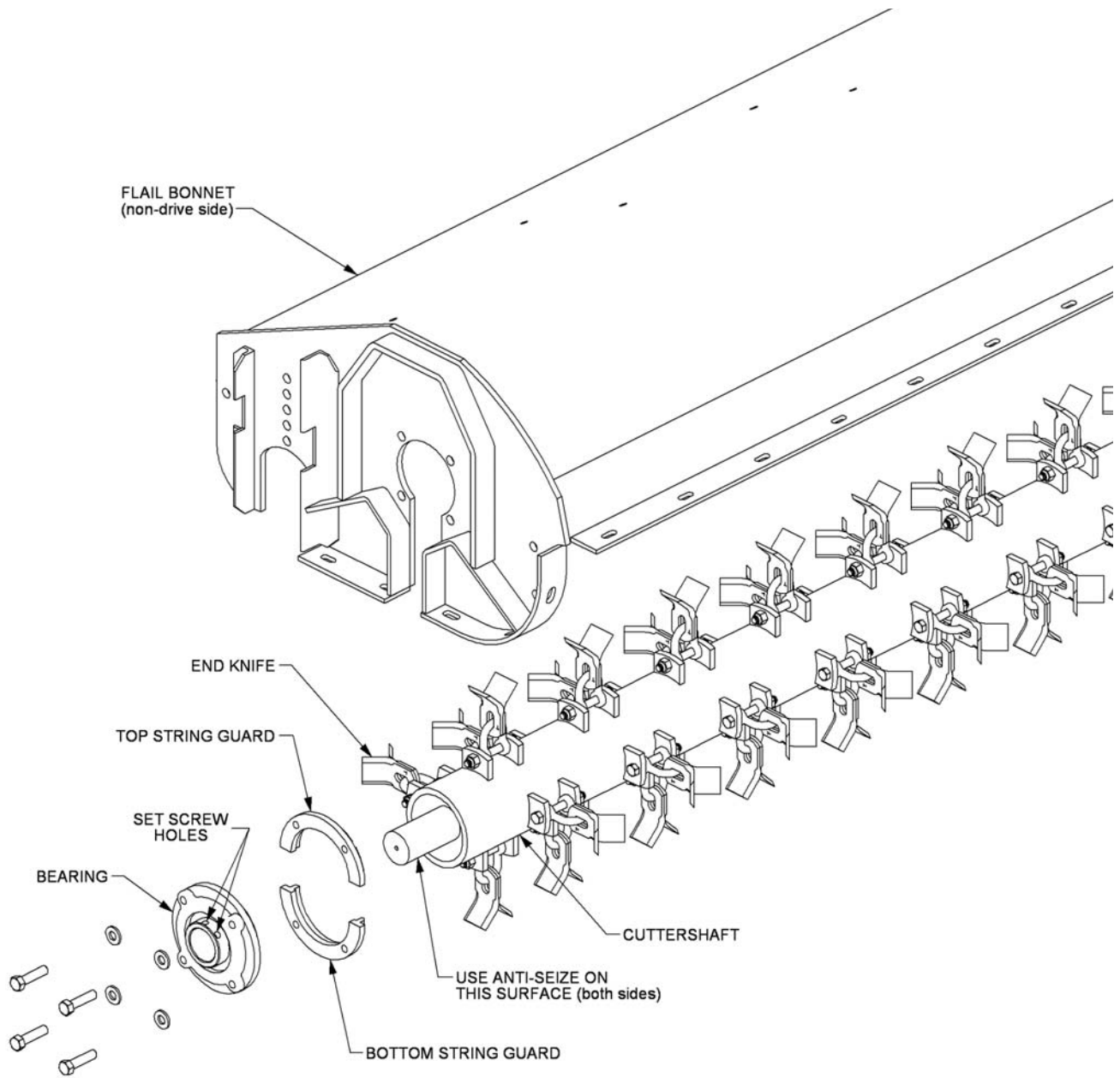
- FÈ Ü^ { [Ç^ÁÇáÇ * ÁÇ ã· @edf^æç * Áæ áÁdç * Á~ æá·È
- ÇÈ T æ^Á^ ^ÁÇæ@Á} áÁ} æ^·Á} ÁæÇÁ} áÁ ÁÇÁÇ ã· @edf^Á}æ} çáÁæ Á Ç, } È
- HÈ Ç] | Áæ çÈ^á^Á} ÁÇ ã· @edf^ Á Ç, } Á} Á^Çáæ^È
- IÈ Ç·æÁ [] Èáæ^Áæ^Áææç * Áá·È
- ÍÈ Ç·æÁÇ@Á} Á ÁÇ@Ádç * Á~ æáÁ} ÁÇÁ [] Èáæ^Áæ^Áá·ÇÁV^ÁÇ [&æÈÇ FÁ | Á~ æç} Ç æáÁ | ~^ÁÇ ÁÇáÁ | ÁÇ ÈáÁÁ [~ Á·^Áæ ÁÇÇ} ·æ } È
- ÎÈ Ç·æÁÇ@Á^æçç * Áæ áÁ} Ádç * Á~ æáÁ} ÁÇÁæáæ^È
- ÏÈ Ô^} ÇÁÇ@ÁÇ ã· @edf^ Ç ^} ÁÇ@Ádç * Á~ æá·ÇÁV^ÁÇ [&æÈÇ FÁ | Á~ æç} Çæ áÁ | ~^ Á Ç ÁÇáÁ | ÁÇ ÈáÁÁ [~ Á·^Áæ ÁÇÇ} ·æ } ÇÁÇÁ [Ádç * Á~ æáÁ} ÁÇÁæáæ^È
- ÌÈ Ç·æÁÈ^ÁÇ [&æÈÇ FÁ | Á~ æç} Çæ áÁ | ~^ Á Ç ÁÇáÁ | ÁÇ ÈáÁÁ [~ Á·^Áæ ÁÇÇ} ·æ } Ç ÇÁÇÁ [Ç { Ádç * Á~ æáÁ} ÁÇ ÇÁæ^È
- JÈ T æ^Á^ ^ÁÇÁÇ ã· @edf^ ÁÇ} ÇÁáÈÁ} ÁÇÁ [] Èáæ^Áæ^Áææ Ç} Á} ^Á^ÇÁ&^, Áæ ÁÇÁææç * Á} Ç ÇÁÇ ã· @edf^
- FÈÈ Ü^ { [Ç^ÁÇ@Á ÇÇ | Á^ÇÁ&^, Áæ áÁ} ÁæÁÇ ÁÇ ÁÇ | ÁÇ | ÁÇ Ç ÁÇ@ÁÇ ã· @edf^ ÁÇ} ÁÇ | ~^ ÇÇ@ÁÇ | Áæ ÁÇ á^æçç * ÈÁÇÁÇÈÜÇÇMSÁ·ÜVÁVÜÁÇÈ ÇÈÖÁVÖÁVPUÖÇÈÜÁÇÁVÖÁÇÖÇÈÜÇÖÁVUSÖÈ
- FFÈ Ü^ | æ^ÁÇ@Á^ÇÁ&^, Áæ ÁÇÁææçç * ÈÁ·^ÁÇ [&æÈÇ FÁ | Á~ æç} Çæ áÁ Ç} Á} Ç ÁÇ@ÁÇ ã· @edf^ ÇÇ | ~^ ÇÇ@Á^, ÁÇ | È
- FGÈ Ü^ { [Ç^ÁÇ@Á ÇÇ | Á^ÇÁ&^, Áæ áÁ^} ^æÁÇÁæáæçç * Á} | &á^ ^ÁÇÁÇ ÁÇÈÁÜ^ | æ^ÁÇ@Á^ÇÁ&^, Áæ ·æáÁÁÇÁÇ ÁÇÈ
- FHÈ Ü^ ^æÁÇ} ·ÁÁÇ [~^ ÇÁÇÁ} ÁÇÁæáæ^È
- FIÈ Ö^Áæ^ÁÇ [ÇÁææçç * Á} | [] Á | È

See illustration on next page

Üæá: T æç} æ &^Á^æç} Á ÈÇ

MAINTENANCE

MAINTENANCE



Uaa^!

Taa c} a^A^&a } A E€

MAINTENANCE

MAINTENANCE

Ùà^!

T a} } a & ^ Á & a } Á È G

Í 4236'Cπo q'I tqw "kpe0

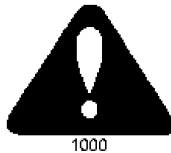
**** JD* % \$!) \$M#F G569F`6CCA

PARTS SECTION

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.

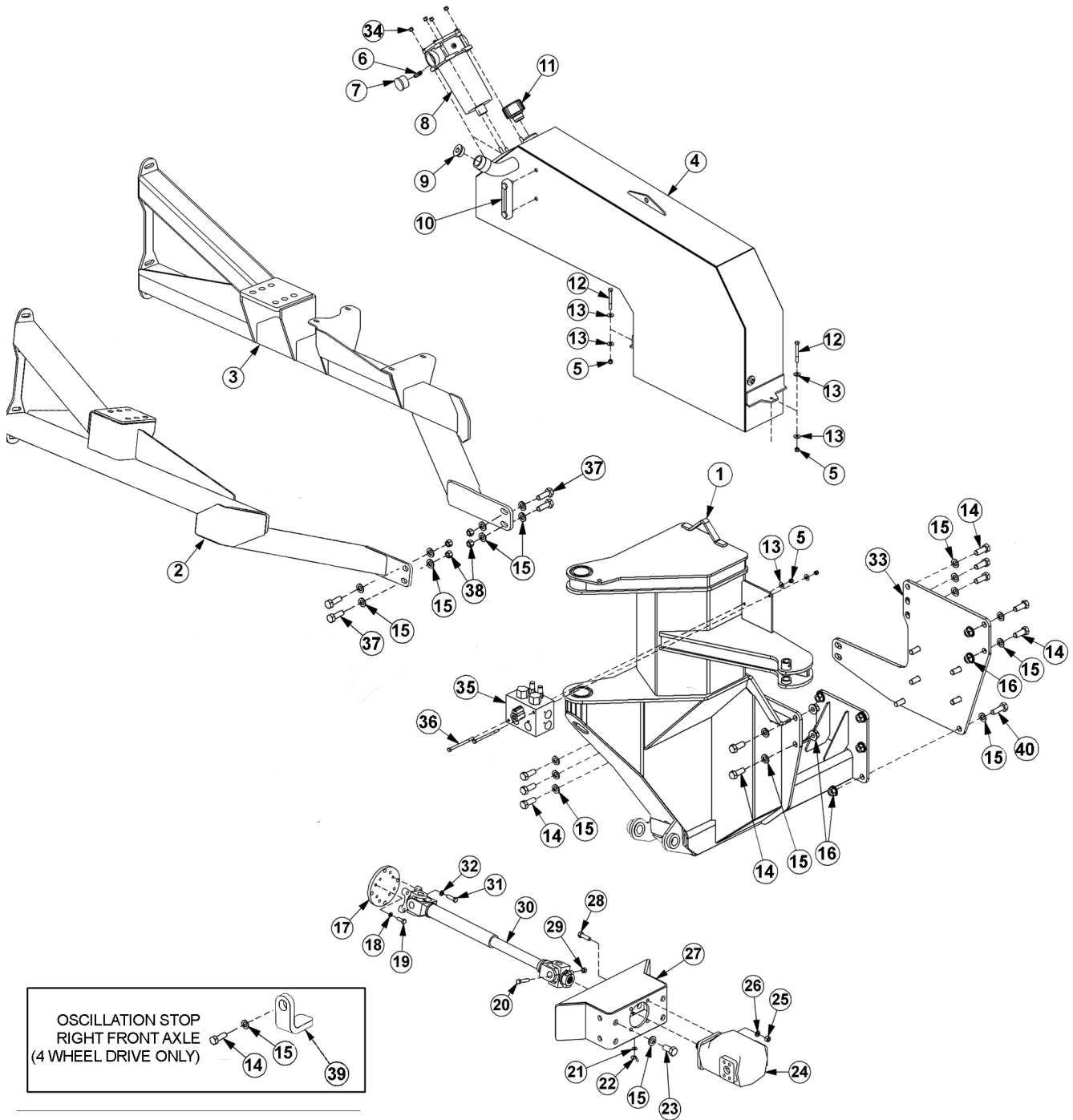
Direct any questions regarding parts to:

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

PART NAME INDEX

VTCEVQT"O QWP V"MKV	6
VTCEVQT"O QWP V"MKV."J [F T C W N K E U	8
GNGEVTQP K E "RTQRQT VQPCN"NKHV"XCNC	:
LQ[UVKEM"CPF "UY KVEJ DQZ "O QWP V	32
DQQO "O QWP V"MKV	34
CZNG"DTCEGU"CPF "DQQO TGUV	36
CZNG"UVC DK K G T	38
RQN[ECTDQPCVG"UCHGV["Y R F Q Y	3:
RQN[ECTDQPCVG"UCHGV["Y R F Q Y "HQT" T"UGTKG	3;
RWO R'F T K G U J C H V	42
Y J GGN"Y GK J V"UCDGT"*****	43
Y J GGN"Y GK J V"UCDGT"ZD"*****	44

HF57HCF ACI BH?#



OSCILLATION STOP
RIGHT FRONT AXLE
(4 WHEEL DRIVE ONLY)

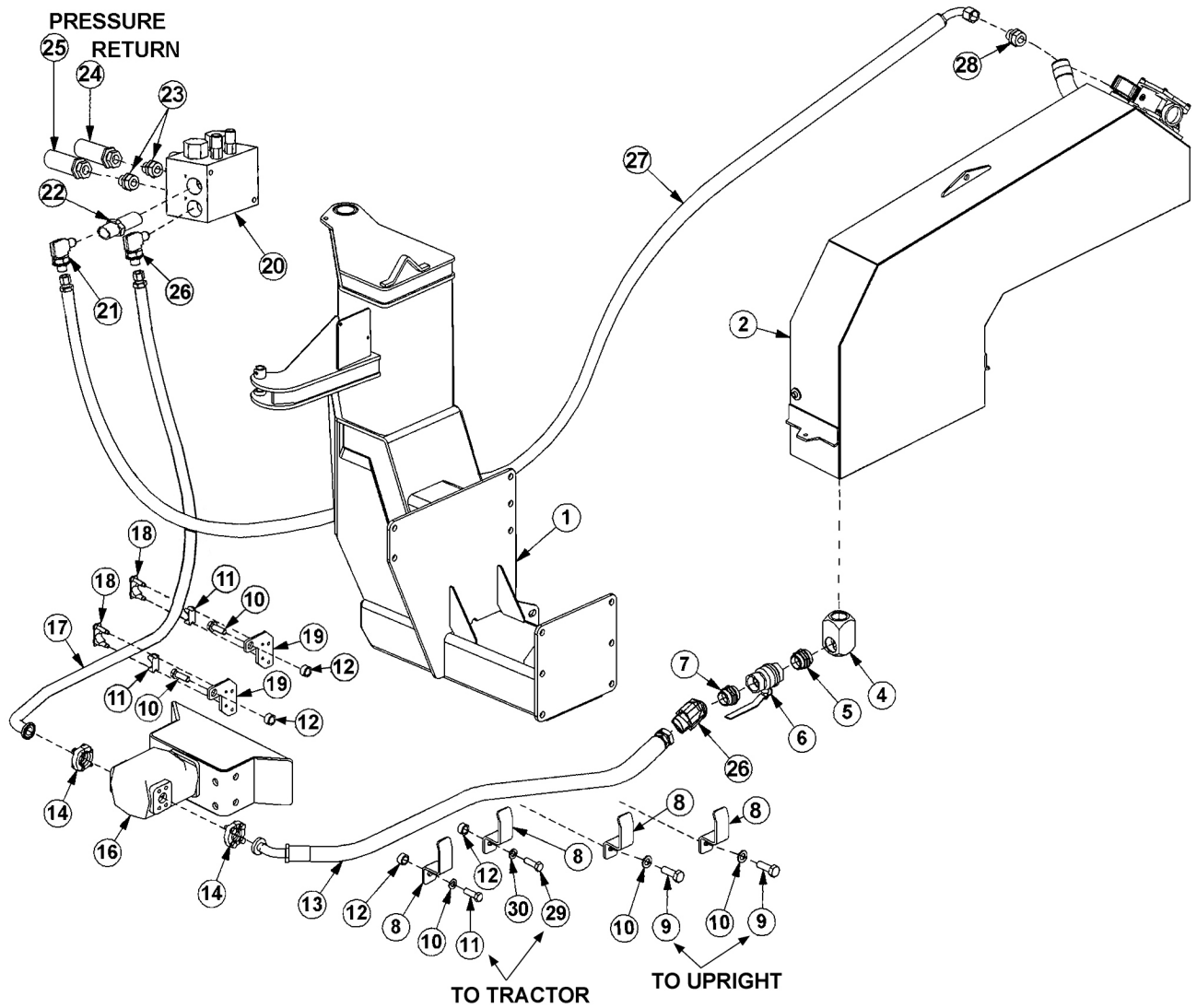
#	QTY	DESCRIPTION	QTY	DESCRIPTION
3	2852246;	3	OCR 'HICO G.'IF '836218372T	
4	28522475	3	CZNG'DTCEG.'NJ	
5	28522474	3	CZNG'DTCEG.'TJ	
6	289222; 3	3	VCPM.'TGU.'Y J GGN.'Y GNN.'CUUJ	
7	43849	6	P [NQEMP WW.'51 \$.'PE	

HF57HCF'ACI BH?#H

7 cbh]bi YX""

#9A	D5 FH'BC" EHM'	8 9 G7 F-DH-CB
8	VH6: :: 3	UVTGGV'GNDQY.'3E '\$Z'; 2FGI
9	8V286; 3	HKNVGT'I CWI G
:	28727266 3	HNVT'CUUJ .'R/VCP MERNV.'UCG'32OR
;	28727349 3	RNWI .'UCG.'%42
32	28727289 3	UK J V'I CWI G
33	28727299 3	ECR.'RTGUUWG.'5QRUC
34	4385; 6	ECRUETGY .'5E '\$Z'5/316\$.PE
35	44238 34	HNCVY CUI GT.'5E '\$
36	53953 38	ECRUETGY .'42O O'Z'72O O.'40'RWEJ
37	55: : 2 54	HNCVY CUI GT.'516\$.I T'. 'UCG
38	53944 34	J GZ'P WW.'42O O.'40'RWEJ
39	56; ; : 3	URCEGT.'FTKXGUJ CHV.'IF 94/973242
3:	548; 3 6	NQEMY CUI GT.'32O O
3;	45335 6	ECRUETGY .'32O O'Z'52O O.'30'RWEJ
42	4387: 3	ECRUETGY .'9B8\$Z'4\$.PH'I T:
43	44236 3	HNCVY CUI GT.'316\$
44	5473; 3	Y R'I 'P WW.'316\$.PE
45	46: 82 6	ECRUETGY .'42O O'Z'62O O.'40'RWEJ
46	45374 3	RWOR.'R572"/'3/516\$I GCT
47	43949 6	P[NQEMP WW.'34\$.PE
48	28755226 6	HNCVY CUI GT.'34\$.UCG.'I T:
49	56; ; 5 3	RWOR'O P V.'IF.'WFTKXG
4:	43955 6	ECRUETGY .'34\$Z'4\$.PE
4;	56: 6: 3	J GZ'P WW.'9B8\$PH'I T: '*UVQXGT+
52	56; ; : 3	FTKXGUJ CHV.'WLIQPV
53	438: 2 6	ECRUETGY .'9B8\$Z'3/316\$.PE.'I T7
54	43; ; : 6	NQEMY CUI GT.'9B8\$
55	28624462 3	WRTH J V.'NI .'IF 8372T
56	43849 : 3	P[NQEMP WW.'5E '\$.PE
57	287322: 6 3	DTCMG'XCXNG.'UQN.'5722RUK'O GVTK
58	43866 4	ECRUETGY '5E 'Z'7\$.PE
59	43: 55 6	ECRUETGY '516\$Z'4/316\$.PE
5:	43: 76 6	J GZ'P WW'516\$.PE
5;	28633878 3	UVQR.'QUU.'IF 8362/72O II'6/Y J N'FT'QPN[+
62	494: 3 9	ECRUETGY .'42O O'Z'82O O'40R

HF57HCF ACI BH?#H'<MBF5I @7G



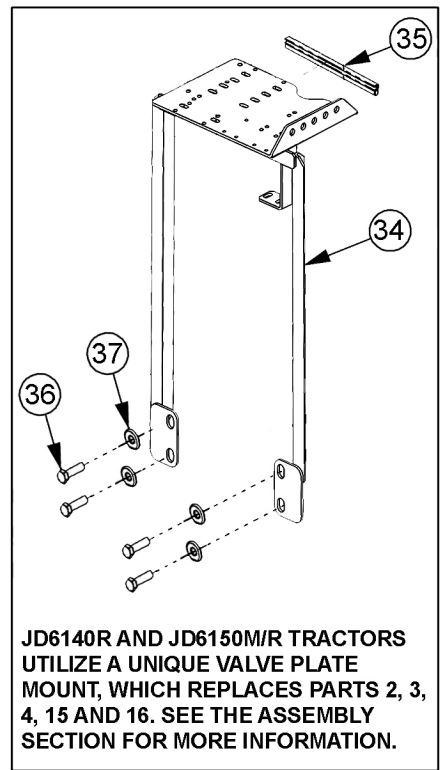
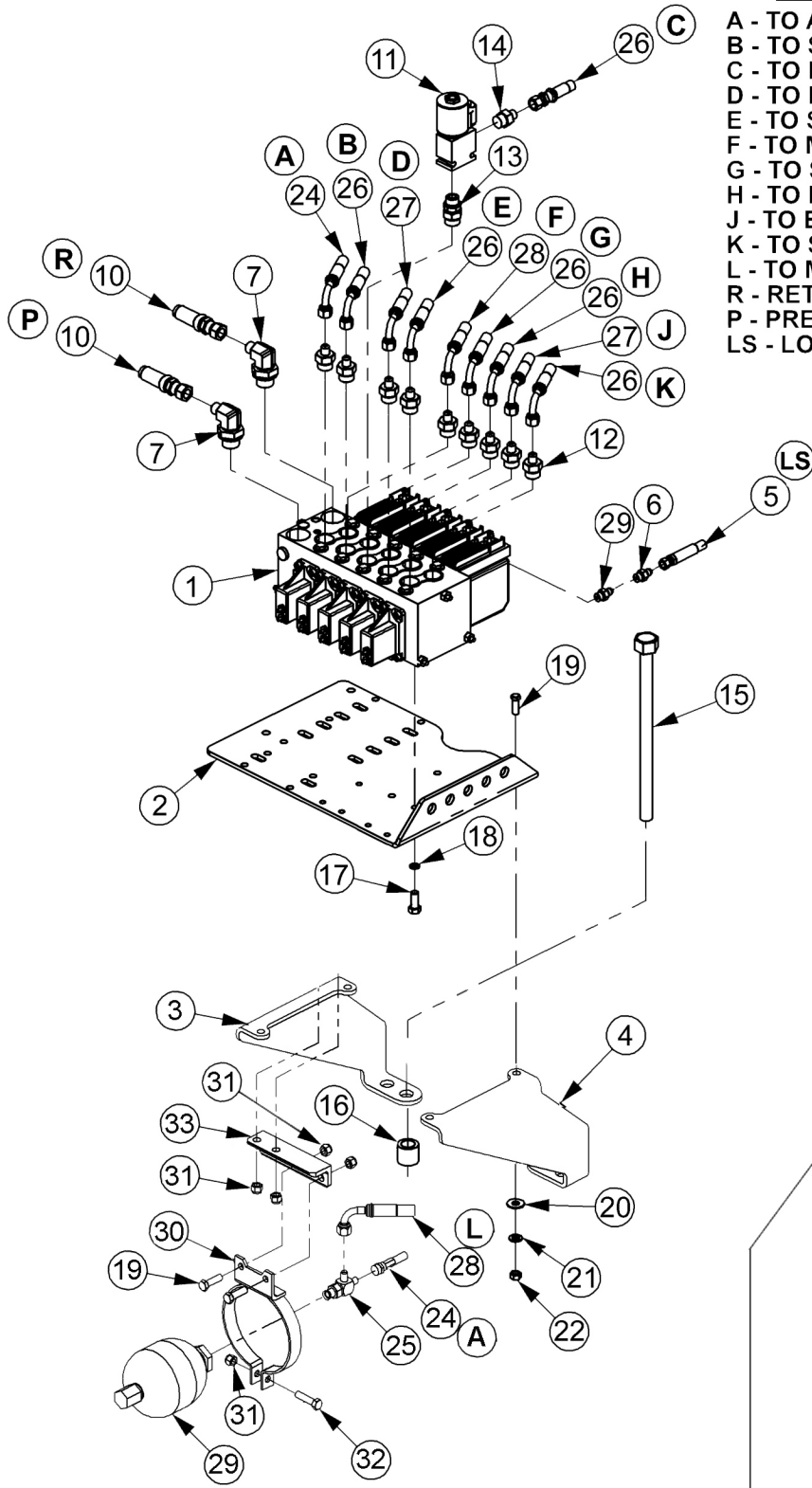
7 cbh]bi YX""

#9A	D5 FH'BC" EHM'	89G7F-DH-CB
3	////// /	O CRP'HTCOG', TGHGT"VQ"VTCEVQT"O QWP V'MKV
4	////// /	J [FTCWNK"VCPM', TGHGT"VQ"VTCEVQT"O QWP V'MKV
6	287252: 6 3	GNDQY .3/34\$HQT"Z"3/34\$HQT
7	287252: 5 3	CF CRVGT.3/34\$O QT"Z"3/34\$O QT
8	5652; 3	DCNN'XCNXG.3/34\$HQT
9	56932 3	CF CRVGT.3/34\$O QT"Z"3/34\$O L
:	545: 4 6	DTCEMGV.J QUG
;	494: 3 4	ECRUETGY .42O O"Z"82O O.40R
32	55: : 2 6	HNCVY CUI GT.516\$.UCG
33	5292: 5	ECRUETGY .42O O"Z"; 2O O.40R
34	46: 6; 6	URCEGT
35	287228; 4 3	J QUG.3/34\$Z"348\$
36	VH6: 74 4	MKV.HNCPI G
38	45374 3	RWOR
39	28722925 3	J QUG.3\$Z": 4\$
3:	8727239 4	ENCOR'MKV.3\$
3;	56848 4	DTCEMGV.ENCOR
42	287322: 6 3	DTCEMG'XCNXG
43	5547; 3	GNDQY .3\$O LZ"3\$HZ; 2
44	54: 8; 3	P RRRNG.NQPI .3\$O QT"Z"3\$O L
45	55777 4	CF CRVGT.3\$O QT"Z"3\$O L
46	55768 3	J QUG.3\$Z"; 6\$"*TGVWTP +
47	55768 3	J QUG.3\$Z"; 6\$"*RTGUWTG+
48	56339 3	GNDQY .3\$O QT"Z"3\$O L
49	28722922 3	J QUG.3\$Z"3: 2\$
4:	56286 3	CF CRVGT.3/316\$O QT"Z"3\$O L
4;	2875273; 3	ECRUETGY ."34O O"Z"92O O
52	44239 3	HNCVY CUI GT.'9B8\$

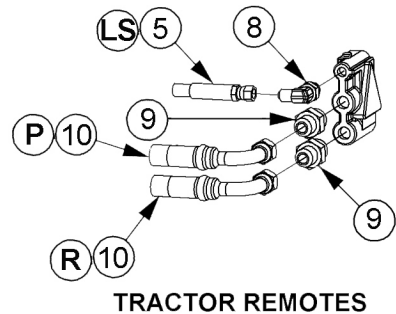
ELECTRONIC PROPORTIONAL LIFT VALVE

HOSE ROUTING

- A - TO ACCUMULATOR
- B - TO SECONDARY CYLINDER GLAND
- C - TO DECK ROLL CYLINDER GLAND
- D - TO BOOM SWIVEL CYLINDER BUTT
- E - TO SHIELD CYLINDER GLAND
- F - TO MAIN BOOM CYLINDER BUTT
- G - TO SECONDARY CYLINDER BUTT
- H - TO DECK ROLL CYLINDER BUTT
- J - TO BOOM SWIVEL CYLINDER GLAND
- K - TO SHIELD CYLINDER BUTT
- L - TO MAIN BOOM CYLINDER GLAND
- R - RETURN, VALVE TO REMOTES
- P - PRESSURE, VALVE TO REMOTES
- LS - LOAD SENSE, VALVE TO REMOTES



JD6140R AND JD6150M/R TRACTORS UTILIZE A UNIQUE VALVE PLATE MOUNT, WHICH REPLACES PARTS 2, 3, 4, 15 AND 16. SEE THE ASSEMBLY SECTION FOR MORE INFORMATION.

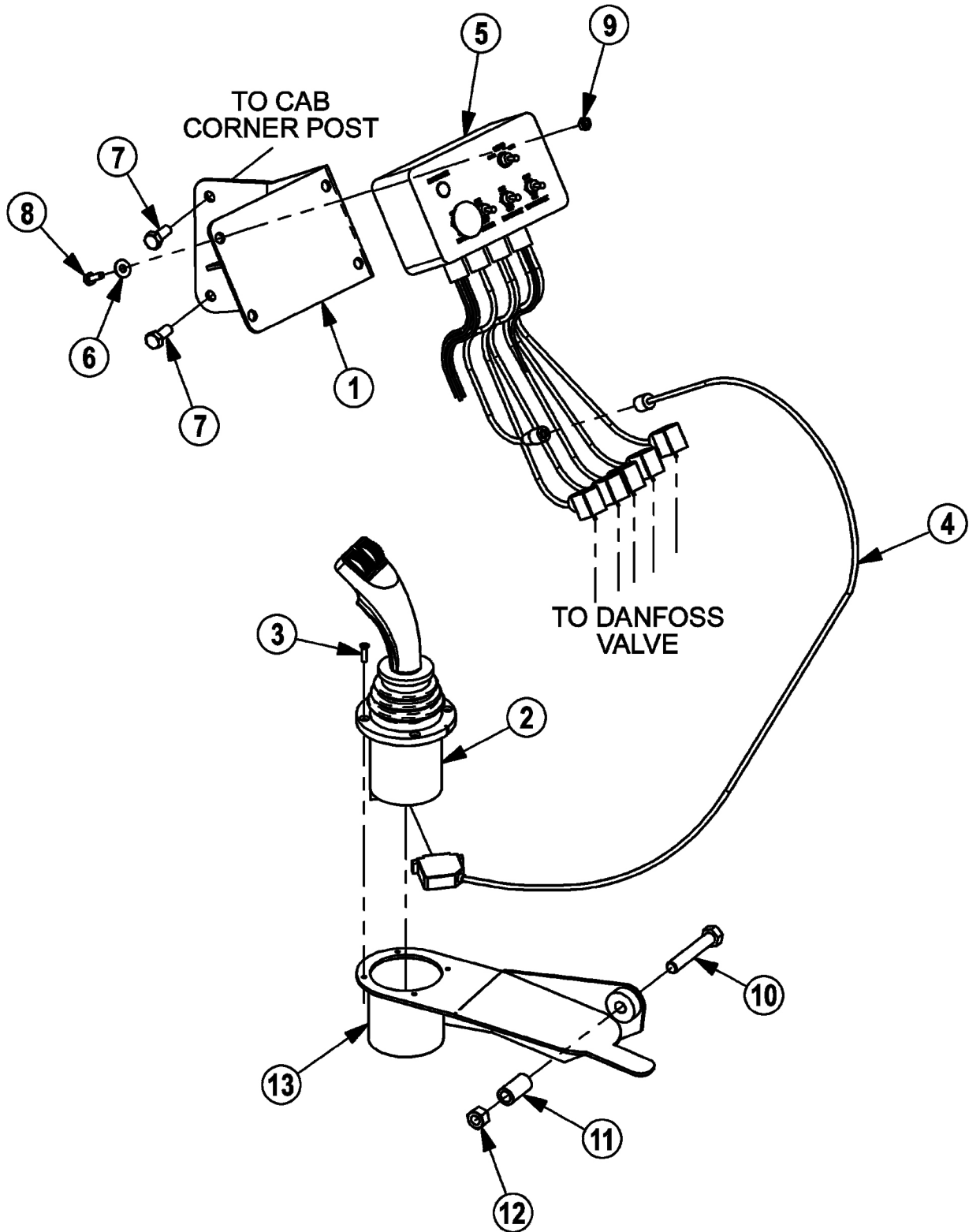


TRACTOR REMOTES

ELECTRONIC PROPORTIONAL LIFT VALVE

Continued...

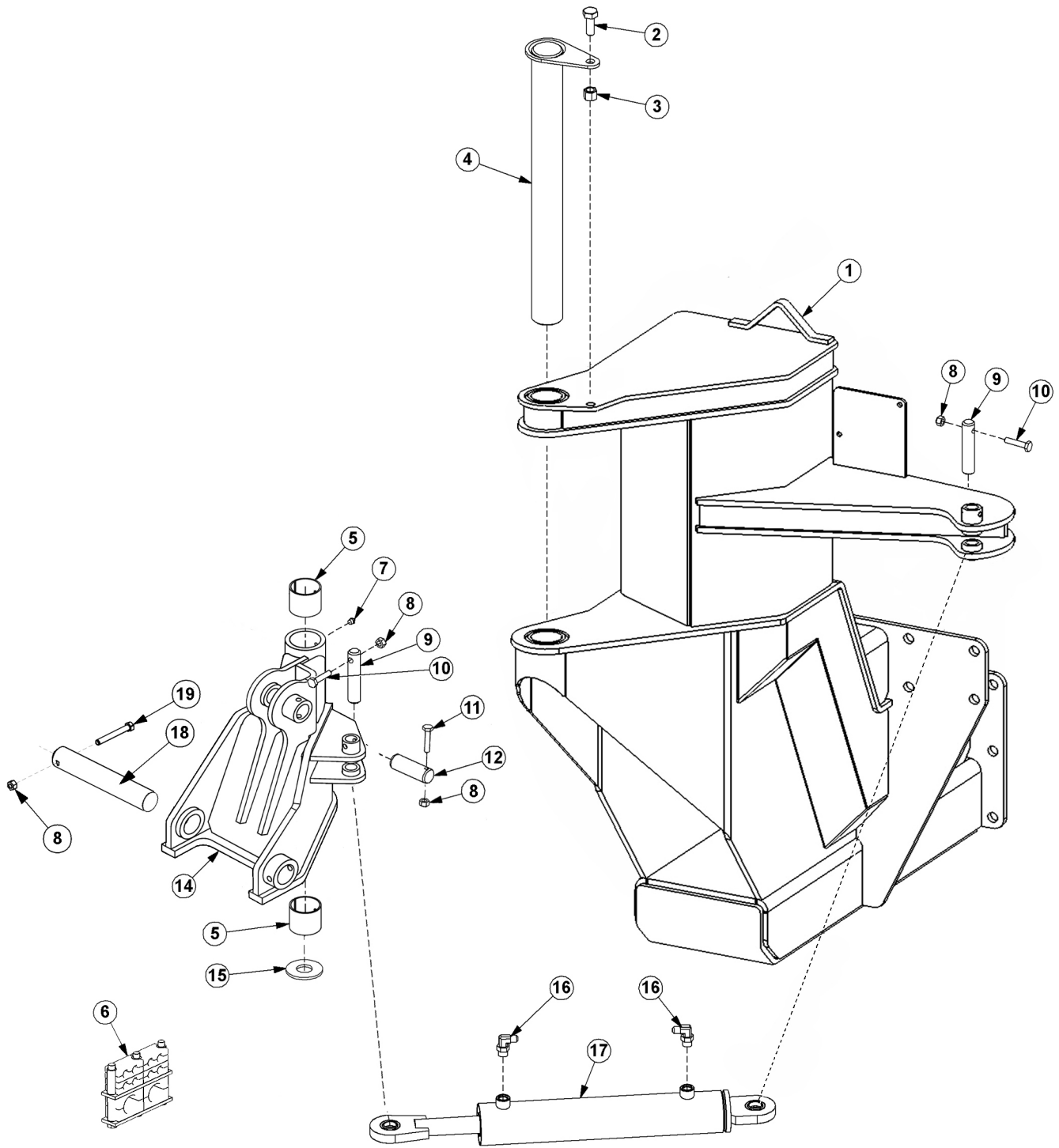
ITEM	PART NO.	QTY.	DESCRIPTION
3	28724368	3	XCNXG.7UR.FHRXGC
4	56844	3	RNCVG.XCNXG.TGCT"O P V
5	28632652	3	O QWP V.XCNXG.NGHV
6	2863264;	3	O QWP V.XCNXG.TK J V
7	28722622	3	J QUG."3 16\$Z"56\$
8	555; 4	3	CF CRVGT.7 B8\$O QT"Z"51 \$O L
9	554; 6	4	GNDQY .516\$O QT"Z"34\$O L; 2
:	28725235	3	GNDQY ."36 O "O QT"Z"7 B8\$O L
;	55685	4	CF CRVGT."44 O O "QTD"Z"34\$O L
32	56834	4	J QUG."34\$Z"56\$
33	8732272	3	VTX"NEMO GVT"RCEME QKN
34	54; 29	;	CF CRVGT.71 \$O QT"Z"51 \$O L
35	53833	3	CF CRVGT.71 \$O QT"Z"34\$CF L O QT
36	55493	3	CF CRVGT.34\$O QT"Z"51 \$O L
37	28752736	6	ECRUETGY .3: O O "Z"4; 2O O .40R
38	5673;	6	URCEGT.3/3 16\$Z"35 B8\$Z"3/31 \$
39	4379;	6	ECRUETGY .7 B8\$Z"5 16\$.PE
3:	43; : 9	6	NQEMY CUI GT.7 B8\$
3:	43853	6	ECRUETGY .51 \$Z"3/3 16\$.PE
42	44238	6	HNCVY CUI GT.51 \$
43	43; : :	6	NQEMY CUI GT.51 \$
44	43847	6	J GZ" P WW.51 \$.PE
46	2872292:	3	J QUG.51 \$Z"56\$
47	2872524;	3	VGG.TWP.34\$O QT"Z"51 \$O L"Z"51 \$O L
48	28722985	8	J QUG.51 \$Z"48: \$
49	28722929	4	J QUG.51 \$Z"434\$
4:	28722986	4	J QUG.51 \$Z"45: \$
4;	46522	3	CEEWO WNCVQT
52	45: : :	3	DTMV."CEEWO WNCVQT
53	43849	7	P [NQEMP WW."51 \$.PE
54	43854	3	ECRUETGY ."51 \$Z"3/34\$.PE
55	28682294	3	DTMV."O P V."CEEWO ."1F 8T
56	2856226:	3	XCNXG"O QWP V."*LF 8362/72T"QP N[+
57	4: 275	3	VTIO "NQEM"; B8\$Z"31 \$HP *LF 8362/72T"QP N[+
58	46: 82	6	ECRUETGY ."42 O O "Z"62 O O "40R."32Q *LF 8362/72T"QP N[+
59	55: : 2	6	HNCVY CUI GT."5 16\$.1 T: ."UCG*LF 8362/72T"QP N[+



7 cbh]bi YX""

H9 A	D5 FH'BC" EHM'	8 9 G7 F-DH-CB	
3	55577	3	OP V.DTMV.UY KVEJ 'DQZ
4	558; 3	3	IQ[UV.6CZKUTJ .FH
5	54; 4;	6	UETGY .O CEJ P G.32/54'Z'516\$.HNVJ F
6	558; 5	3	EDN.GZ V.6HV.IQ[UV
7	287323; 8	3	UY KVEJ 'DQZ
8	44236	6	HNCVY CUI GT.316\$
9	49735	4	ECRUETGY .32O OZ47O O *30'RKVEJ +
:	4374;	6	ECRUETGY .316\$Z'516\$.PE
;	43749	6	P[NQEMP WW.316\$.PE
32	43959	3	ECRUETGY .34\$Z'5\$.PE
33	5557;	3	VWDG.URCEGT
34	43949	3	P[NQEMP WW.34\$.PE
35	55578	3	CTOTGUV.IQ[UVKEM

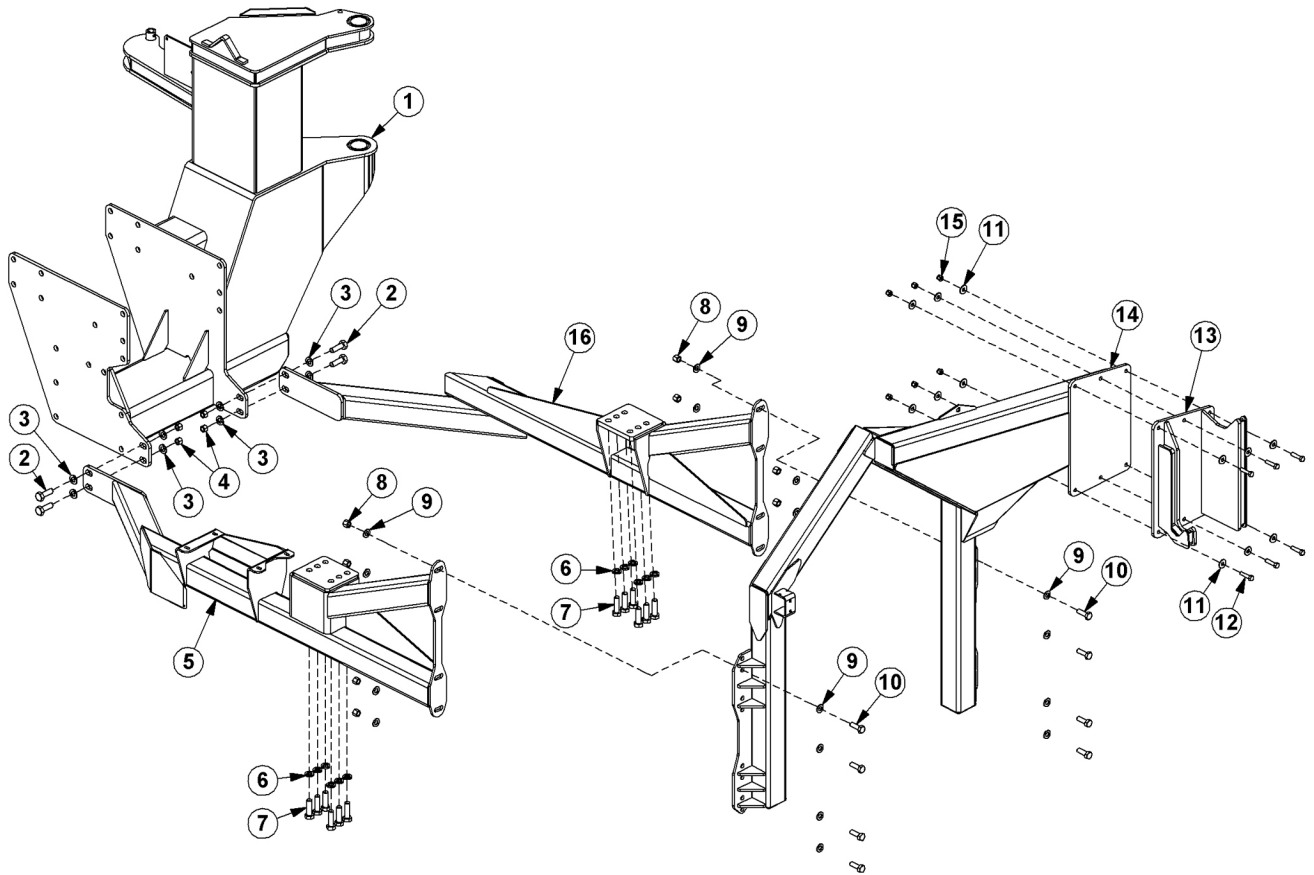
6CCA 'ACI BH?H



6 CCA 'ACI BH'?#

7 cbh]bi YX""

#9A	D5 FH'BC" EHM'	89G7F-DH-CB
3	/// /	OCRHTCOG',TGHGT'VQ'VTCEVQT'OQWPV'MKV
4	439:4 3	ECRUETGY.'7E\$Z'3/516\$.PE
5	43999 3	P[NQEMPWW.'7E\$.PE
6	545:3 3	RP.'40\$Z'4607\$.ECR
7	54544 4	DWUJ RI
8	287273:8 3	ENCOR'MKV
9	8V5433 4	I TGCUG\ GTM.'3E\$PRV
:	43899 6	P[NQEMPWW.'9B8\$
;	545:2 4	RP.'3\$
32	438:5 4	ECRUETGY.'9B8\$Z'4\$.PE
33	438:9 3	ECRUETGY.'9B8\$Z'5\$PE
34	54594 3	RP
35	/// /	URJ GT'ECN'DGCTRI',PQV'HQT'UCNG
36	289223:8 3	UY KGN'CUUGODN[
///	28532373 3	UY KGN'YGNFOGPV
37	28742472 3	DGCTRI.'YCUJGT.'UYRI'.UDT
38	54:32 4	CF CRVGT.'GNDQY
39	2872324; 3	E[NRFGT.'5\$Z'350:\$
3:	5459: 3	RP.'4\$Z'3409\$
3;	438:: 3	ECRUETGY.'9B8\$Z'5/316\$

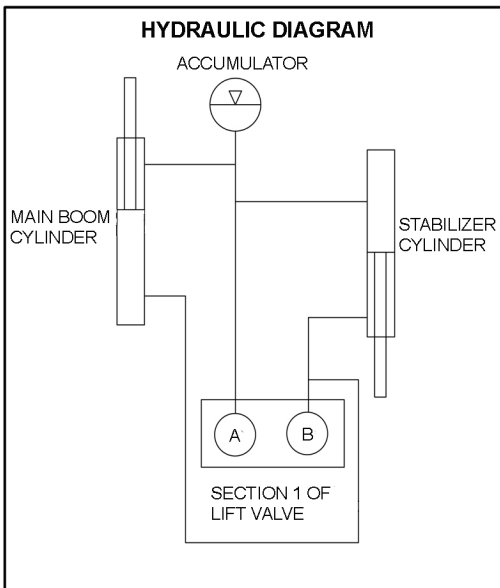
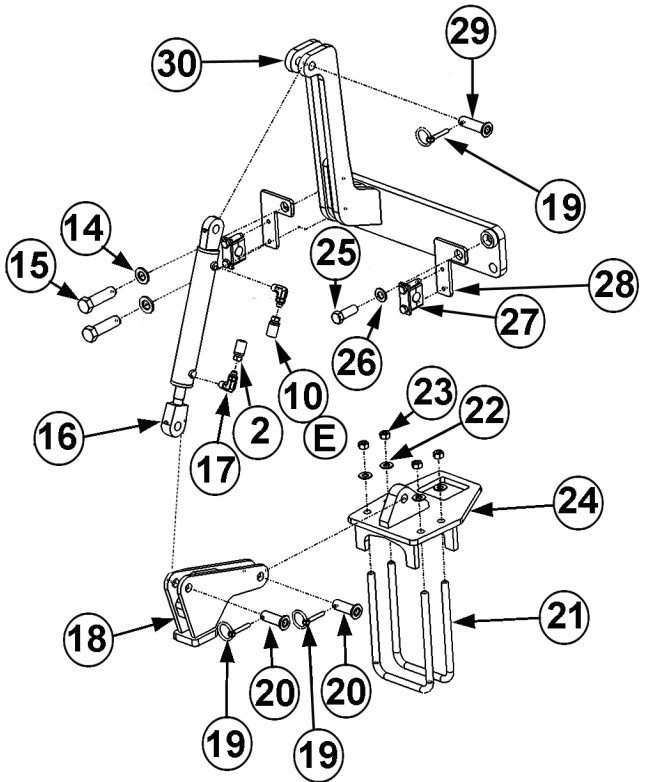
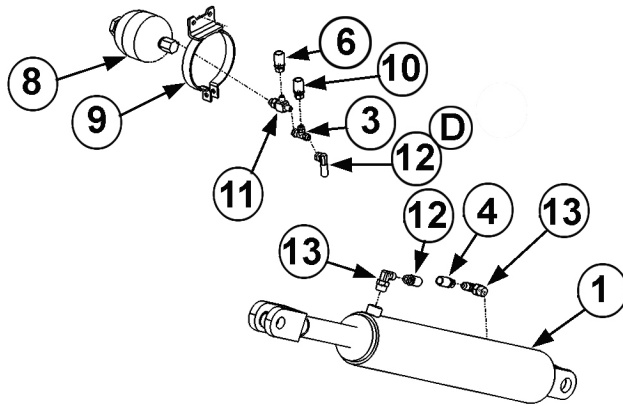
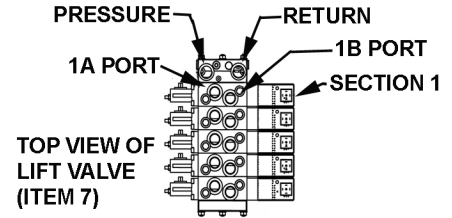
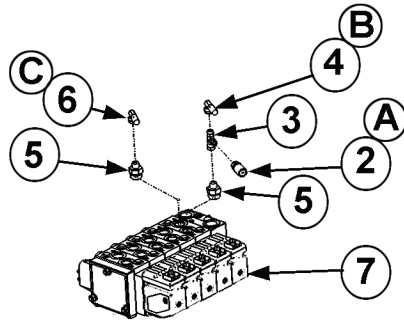


7cbhbi YX''''

#9A	D5FH'BC" EHM'	89G7F-DH-CB	
3	//////	3	O CRHTCO G', TGHGT'VQ'VTCEVQT"O QWP V'MK
4	43: 55	6	ECRUETGY .516\$Z'4/316\$.PE
5	55: : 2	:	HNCVY CUI GT.516\$.UCG
6	43: 47	6	J GZ'P WW.516\$.PE
7	28522475	3	CZNG'DTCEG.NGHV'J CPF
8	46: : 3	34	NQEMY CUI GT.420 O
9	46: 9;	34	ECRUETGY .420 O 'Z'870 O .40R
:	43999	:	P [NQEMP WW.71 \$.PE
;	55986	38	HNCVY CUI GT.71 \$.UCG
32	439: 5	:	ECRUETGY .71 \$Z'4\$.PE
33	4423:	34	HNCVY CUI GT.34\$.Y FG
34	43955	8	ECRUETGY .34\$Z'4\$.PE
35	2853238:	3	CF CRVGT.DQQTGUV.UCDGT
///	2853238;	/	CF CRVGT.'DQQTGUV.'UCDGT"ZD
36	2853237:	3	DQQTGUV.UCDGT
37	43949	8	P [NQEMP WW.34\$.PE
38	28522474	3	CZNG'DTCEG.TK J V'J CPF

HOSE ROUTING KEY

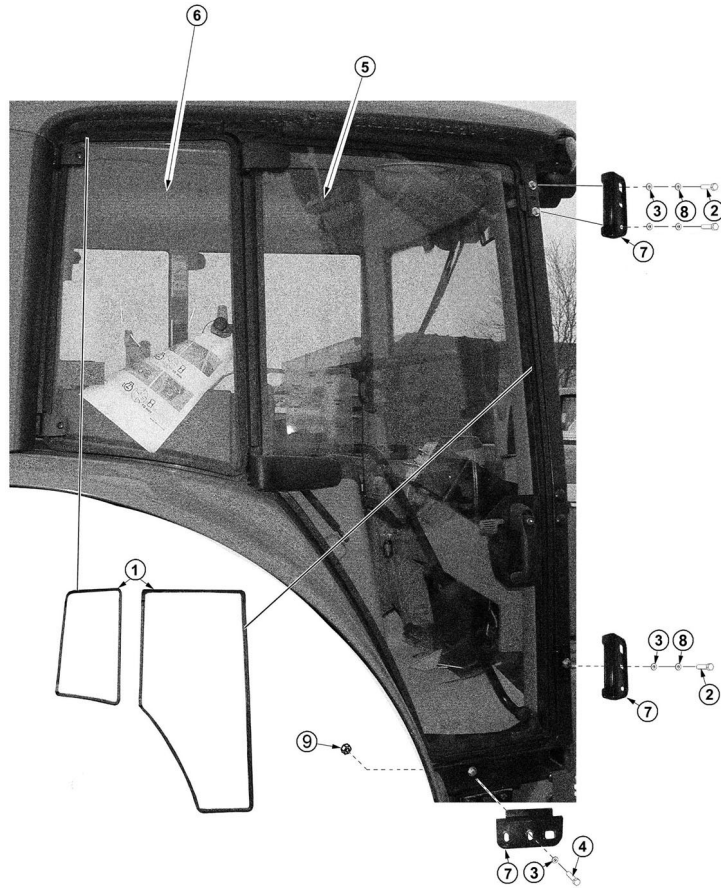
- A- FROM 1B PORT ON LIFT VALVE TO STABILIZER CYLINDER GLAND
- B- FROM 1B PORT ON LIFT VALVE TO MAIN BOOM CYLINDER BUTT
- C- FROM 1A PORT ON LIFT VALVE TO ACCUMULATOR
- D- FROM ACCUMULATOR TO MAIN BOOM CYLINDER GLAND
- E- FROM STABILIZER CYLINDER BUTT TO ACCUMULATOR



LOCATE HOLE IN ITEM 24 AROUND AXLE STOP ON RIGHT FRONT AXLE.
 USE ITEMS 21, 22, & 23 TO CLAMP ITEM 24 TO AXLE.
 AFTER INSTALLATION, ARTICULATE FRONT AXLE FROM STOP TO STOP AND EXTEND AND RETRACT CYLINDER FULLY TO ENSURE A PROPER FIT.

7 cb]bi YX""

#9 A	D5 FH'BC" EHM'	8 9 G7 F-DH-CB
3	////// /	DQOQ 'E[NR F GT", TGHGT"VQ'EQO O QP 'UGEVIQP
4	28722952 3	J QUG.5: \$Z'449\$
5	2872526: 4	TWP "VGG.5: \$O LZ'5: \$HLZ'Z'5: \$O L
6	////// /	J QUG', TGHGT"VQ'NHV"XCNXG'RCI G
7	////// /	CF CRVGT", TGHGT"VQ'NHV"XCNXG'RCI G
8	////// /	J QUG', TGHGT"VQ'NHV"XCNXG'RCI G
9	////// /	NHV"XCNXG", TGHGT"VQ'NHV"XCNXG'RCI G
:	////// /	CEEWO WNCVQT", TGHGT"VQ'NHV"XCNXG'RCI G
;	////// /	CEEWO WNCVQT"DTMV", TGHGT"VQ'NHV"XCNXG'RCI G
32	28722953 3	J QUG.5: \$Z'456\$
33	////// /	TWP "VGG", TGHGT"VQ'NHV"XCNXG'RCI G
34	////// /	J QUG', TGHGT"VQ'NHV"XCNXG'RCI G
35	////// /	GNDQY ", TGHGT"VQ'NHV"XCNXG'RCI G
36	55: : 2 4	HNCVY CUI GT.516\$.UCG
37	54925 4	ECRUETGY .42O O 'Z'322O O .40R
38	559: 7 3	E[NR F GT.3/34\$Z': \$
39	28725277 4	GNDQY .316\$O QT'Z'5: \$O L
3:	28532354 3	NR MRXQV.UVCDNK GT
3;	TF 3254 5	N[PEJ 'RR
42	55: : 6 4	RR .516\$Z'4/9B8\$
43	28642386 4	WDQNV
44	28755226 6	HNCVY CUI GT.34\$.UCG
45	43922 6	J GZ "P WW.34\$.WPE
46	28532398 3	O QWP V.CZNG
47	////// /	ECRUETGY ", TGHGT"VQ'NHV"XCNXG'RCI G
48	////// /	HNCVY CUI GT", TGHGT"VQ'NHV"XCNXG'RCI G
49	////// /	ENCOR'MW", TGHGT"VQ'NHV"XCNXG'RCI G
4:	////// /	DTCEMGV", TGHGT"VQ'NHV"XCNXG'RCI G
4;	569; ; 3	RR .516\$Z'4/37B8\$
52	28532399 3	UVCDNK GT.CZNGE[N'OPV

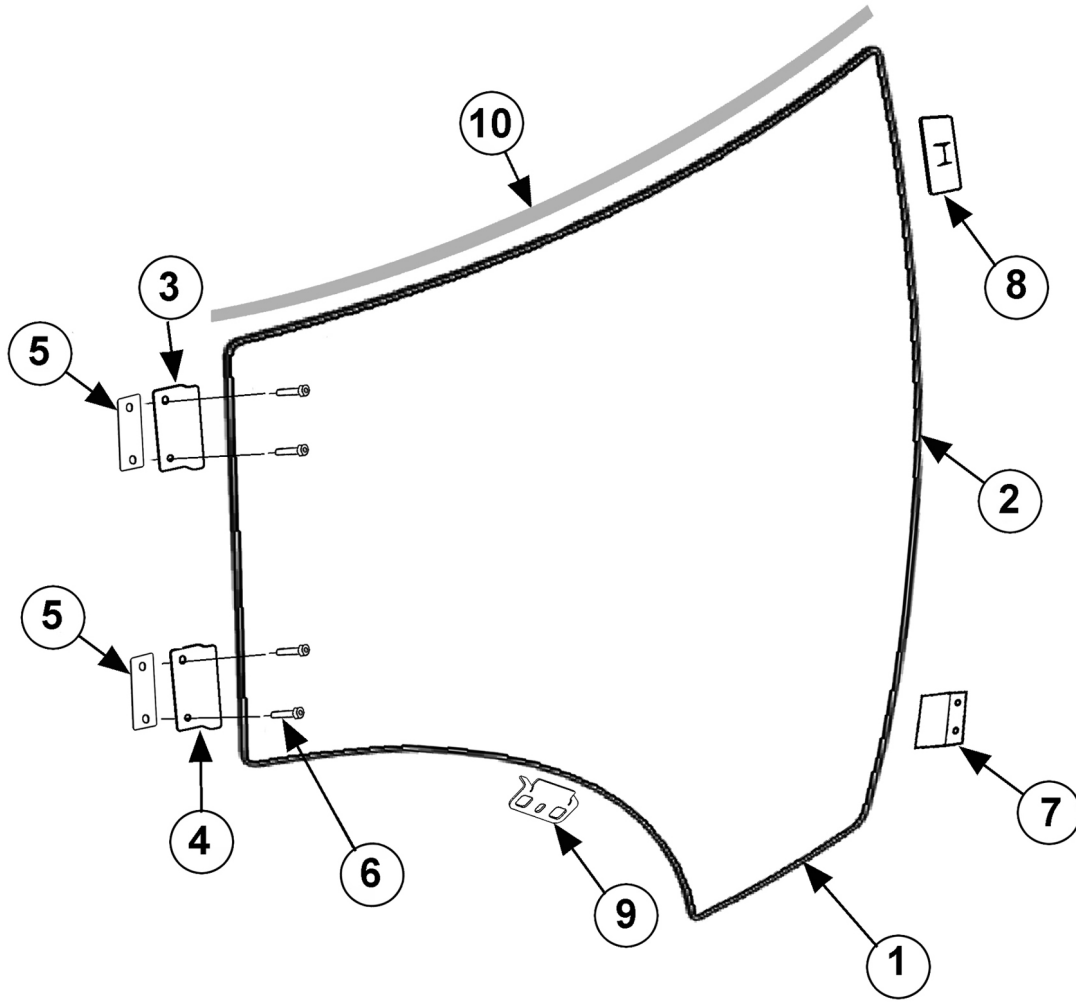


49A D5 FH'BC" EHM'

3	53; 87	44
4	4972;	5
5	44237	6
6	437; 3	3
7	286; 2227	3
8	286; 2249	3
9	28742262	5
:	8V483;	5
;	43799	3

89G7 F-DH-CB

VTIO "UGCN.5E \$'ENR'Z'5 16\$QF "HGGV+
ECRUETGY .: O O "Z"42O O .3047R
HNCVY CUI GT.7B8\$
ECRUETGY .7B8\$Z"3/316\$.PE
RQN[ECTD.HFO F.FQQT.TJ
RQN[ECTD.HFO F.TGCT.TJ
DTMV.IF.RQN[.TGVCR
NQEMY CUI GT.: O O
P[NQEMP WW.7B8\$.PE

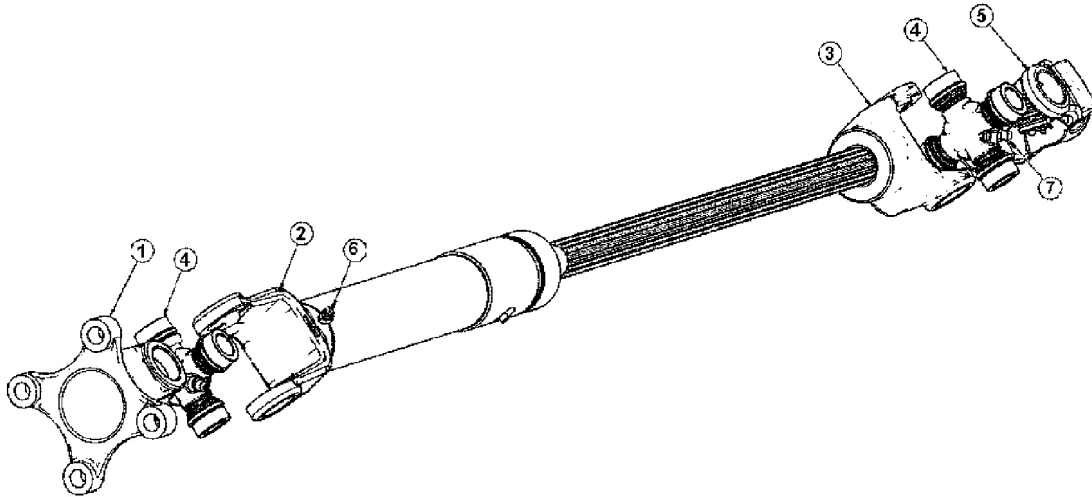


49A D5 FH'BC" EHM"

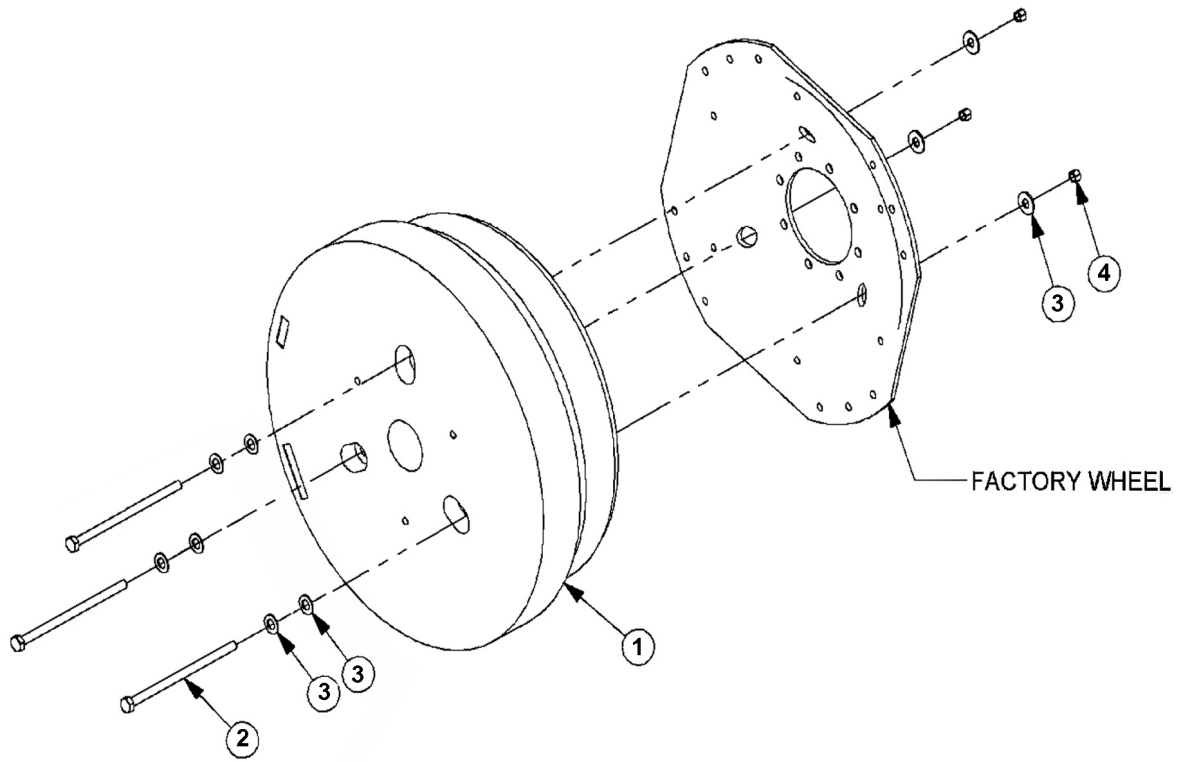
3	286; 2269	3
4	28759227	3
5	28552264	3
6	28552263	3
7	N393; 67	4
8	3; O 9783	6
9	N42; 272	3
:	N42; 26;	3
;	28742262	3
32	////	3

89G7 F-DH-CB

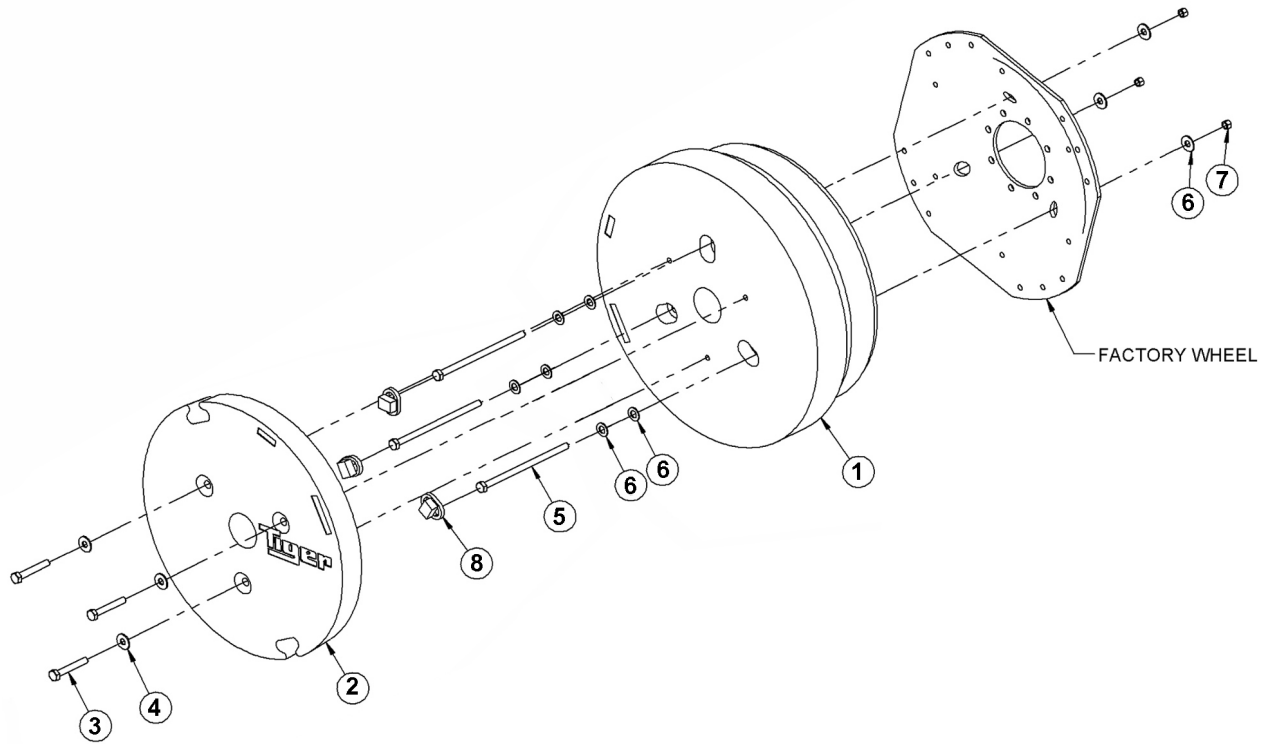
RQN| ECTD.'HT'OF.'IF8T.RCP.'TJ
CFJ GUK&G.'Y VJ T'UVTR.'DNM'5O
DTMV.'UHM| .'UETP.'WRRT.'IF83ZZT
DTMV.'UHM| .'UETP.'NY T.'IF83ZZT
UGCN
UETGY
DTCEMGV
DTCEMGV
DTMV.'IF.'RQN| .'TGVC&P
TVX'UN&EQP'G'CFJ GUK&G



QTY	DESCRIPTION	QTY	DESCRIPTION
///	56; ; ;	3	FTK&GUJ CHV.WLQ&P V.CUU
3	28727226	3	[QMG'RWNGI
4	28727227	3	UNGGXG
5	28727228	3	UJ CHV
6	28727229	4	ETQUU
7	2872722:	3	[QMG'FTK&G
8	8V5425	3	I TGCUG\ GTM.3 I6\$Z"67
9	8V5429	5	I TGCUG\ GTM.3 I6\$Z"UVT



QTY	DESCRIPTION	QTY	DESCRIPTION
3	286; ; 232	3	5622%Y GK J V
4	28752449	5	ECRUETGY .3\$Z'3; /34\$.PE
5	28755229	8	HNCVY CUI GT.'3\$
6	537: 3	5	J GZ'P WW.'3\$.PE



49A D5FH'BC" EHM'

89G7F-DH-CB

3	2892232:	3	5622%Y GK J V.VCRRGF
4	5473:	3	: 72%Y GK J V
5	43: 64	5	ECRUETGY .516\$Z.'7\$.PE
6	55848	5	HNCVY CUJ GT.516\$.WUU
7	28752449	5	ECRUETGY .3\$Z.'3; /314\$.PE
8	28755229	8	HNCVY CUJ GT.3\$
9	537: 3	5	J GZ'P.W.'3\$.PE
:	28592445	5	URCEGT.Y J GGN'Y GK J V

**** 7CAACB`JD*%(\$!) \$M#F G569F`6CCA

PARTS SECTION

PART NAME INDEX

P QVGLU	6
RCTVU'QTF GT&P I 'I W&E G	7
DQQO 'UY K&G'N'C'UUGO DN[	8
S W&E ME QWRNGT U	:
UCDGT'DQQO 'C'UUGO DN[	32
UCDGT'O D'DQQO 'C'UUGO DN[	34
UCDGT'ZD'DQQO 'C'UUGO DN[	36
72R 'HNCN'C'UUGO DN[	38
72R 'HNCN'C'UUGO DN[.RCUU/VJ TQW J 'MP K&GU	3:
72R 'HNCN'F T&G'C'UUGO DN[	42
UCDGT'F K'GEV'F T&G'HNCN'C'UU[	44
UCDGT'F K'GEV'F T&G'C'UUGO DN[	46
85R 'HNCN'C'UUGO DN[	48
85R 'HNCN'F T&G'C'UUGO DN[	4:
72R 'UCDGT'TQVCT['O QY GT	52
72R 'UCDGT'O D'TQVCT['O QY GT	54
72R 'UCDGT'ZD'TQVCT['O QY GT	56
82R 'UCDGT'TQVCT['O QY GT	58
82R 'TQVCT['MP K&G'CP F 'F KJ 'QRVQP	5:
UCDGT'URR F NG'C'UUGO DN[	62
UCDGT'ZD'('82R 'URR F NG'C'UU[	64
5R 'Z'39/34R 'Y GNF GF 'E[NR F GT'DTGCMF QY P	66
6R 'Z'37R 'Y GNF GF 'E[NR F GT'DTGCMF QY P	67
6/34R 'Z'48/34R 'Y GNF GF 'E[NR F GT'DTGCMF QY P	68
7R 'Z'47R 'Y GNF GF 'E[NR F GT'DTGCMF QY P	69
RWO R'CP F 'I T&N'I WCTF 'QRVQP U	6:
TGUGT XQK'VCP M'H&N'VGT'C'UUGO DN[	6;
HTQP V'J [F T C W&E 'RWO R	72
72R 'CP F '85R 'HNCN'O QVQT'DTGCMF QY P	74
72R 'HNCN'F K'GEV'F T&G'O QVQT'DTGCMF QY P	76
72R 'CP F '82R 'TQVCT['O QVQT'DTGCMF QY P	78
EQQNGT'C'UUGO DN[	7:
ECDNG*O CP WCN+N&H'XCXNG.'6'URQQN/'28724326	82
ECDNG*O CP WCN+N&H'XCXNG.'7'URQQN/'28724325	84
7'URQQN'GNGEVTQP K&'XCXNG/'287242; 8	86
DTCMG'XCXNG'C'UUGO DN[	88
DTCMG'XCXNG'J [F T C W&E 'UEJ GO C V&E	89
UQNGP Q&'UY K&EJ 'DQZ'CP F 'Y K'P I	8:
O CP WCN+N&H'XCXNG'UY K&EJ 'DQZ	8;
O CP WCN+N&H'XCXNG'UEJ GO C V&E	92

COMMON SABER

PART NAME INDEX

GNGEVTQPÆ'NKH'XCNXG'UY K/EJ 'DQZ	93
GNGEVTQPÆ'NKH'XCNXG'UEJ GO CVÆ	94
NGHV'J CPF 'LQ[UVÆM'UY K/EJ DQZ'UEJ GO CVÆ	95
VTQWDNGUJ QQVÆI	96
VTQWDNGUJ QQVÆI '/'EQP VÆ WGF	97
J [FTCWNÆ'VTQWDNGUJ QQVÆI 'I WÆ C	98
GNGEVTÆCN'VTQWDNGUJ QQVÆI 'I WÆ G	99
PQVGU'3	9:
ENGCP 'EWWGT'J GCF	9;
ENGCP 'EWWGT'CUUGO DN[	: 2
ENGCP 'EWWGT'QRGTC VÆQP	: 3
ENGCP 'EWWGT'QRGTC VÆQP '/'EQP VÆ WGF	: 4
ENGCP 'EWWGT'O CÆ VGP CPEG	: 5
ENGCP 'EWWGT'DNCF G'CPF 'VGGVJ 'RCTVU	: 6
ECTDÆ G'VÆ'TGRNCEGO GP V	: 7
PQVGU'4	: 8
HKT'G'UWRRTGUIQP 'U[UVGO	: 9
HKT'G'UWRRTGUIQP '5/RQÆ V'O QWP V	::
HKT'G'UWRRTGUIQP 'HTQP V'O QWP V	: 2
HKT'G'UWRRTGUIQP 'U[UVGO 'GNGEVTÆCN'UEJ GO CVÆ	: 4
Y GVEW	: 5
Y GVEW'72'I CNNQP 'VCP M/'5RP V'O QWP V	: 6
Y GVEW'322'QT'372'I CNNQP 'VCP M/'5RP V'O QWP V	: 7
Y GVEW'5RP V'RNWO DÆI '/'72Æ 'O QY GTU	: 8
Y GVEW'5RP V'RNWO DÆI '/'NCTI G'O QY GTU	: :
Y GVEW'HTQP V'RNWO DÆI '/'72Æ 'O QY GTU	322
Y GVEW'HTQP V'RNWO DÆI '/'NCTI GT'O QY GTU	324
Y GVEW'72Æ 'URTC[GT'J GCF 'CUUGO DN[	326
Y GVEW'82Æ 'URTC[GT'J GCF 'CUUGO DN[	328
Y GVEW'ECDNGU	32:

NOTES

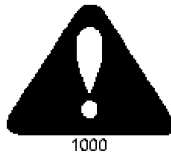
NOTES

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.

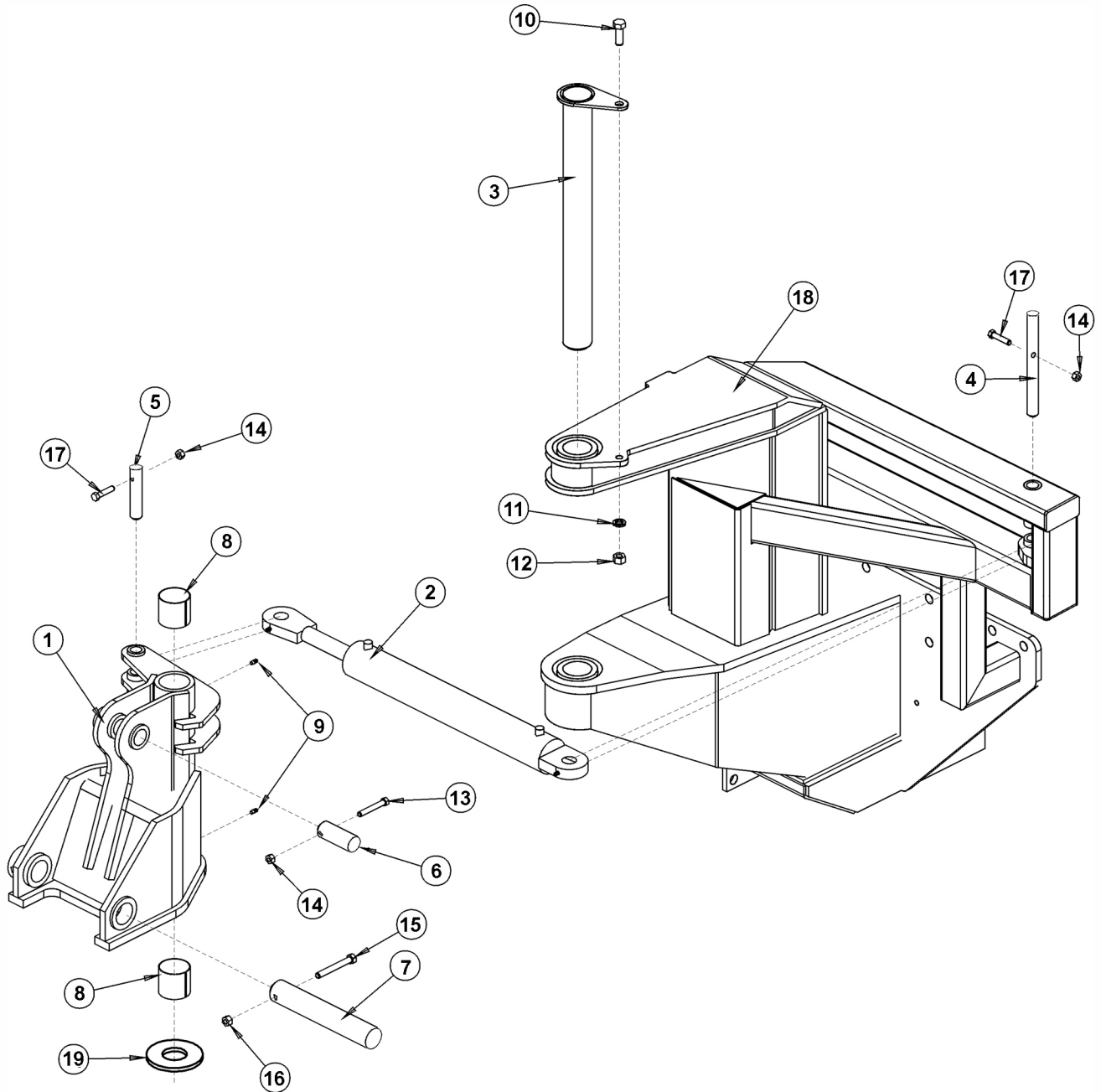


For maximum safety and to guarantee optimum product reliability, always use genuine **Tiger** replacement parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death.

Direct any questions regarding parts to:

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

BOOM SWIVEL ASSEMBLY



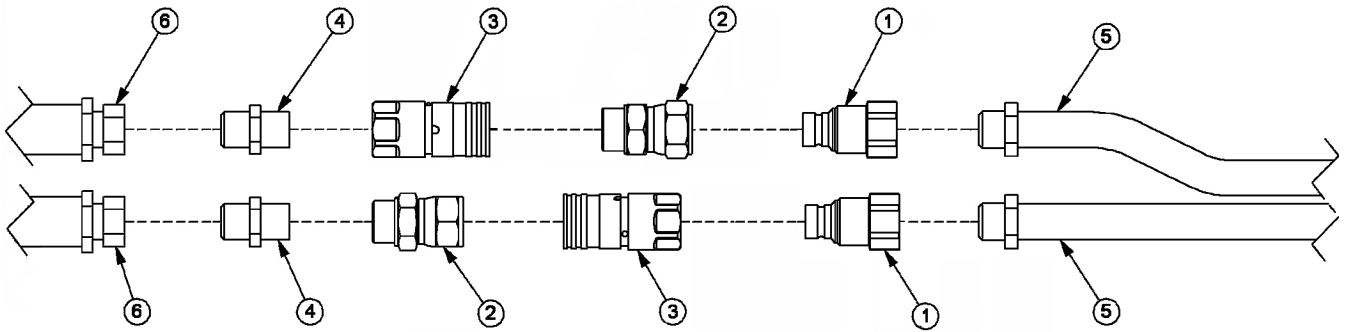
BOOM SWIVEL ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
---	32742	1	SWIVEL W/BUSHINGS,BOOM,SABER
1	32376	1	SWIVEL,BOOM,SABER,W/O BUSHING
2	33705	1	CYLINDER,3X17 1/2,WELDED
3	32381	1	PIN,2 1/2,SWIVEL,SABER
4	33710	1	PIN,CYLINDER,1,SWIVEL,SABER
5	32380	1	PIN,CYL,1,SWIVEL,SABER
6	32372	1	PIN,CYLINDER,STAGE,2ND
7	32378	1	PIN,BOOM TO SWIVEL,SABER
8	32322	2	BEARING,DX,2 1/2X2 1/2LONG,
9	6T3211	2	GREASE ZERK,1/8
10	21782	1	CAPSCREW,5/8 X 1-3/4 NC
11	21992	1	LOCKWASHER,5/8
12	21775	1	HEX NUT,5/8 NC
13	21687	1	CAPSCREW,7/16 X 3 NC
14	21677	3	NYLOCK NUT,7/16 NC
15	21741	1	CAPSCREW,1/2 X 4 NC
16	21727	1	NYLOCK NUT,1/2 NC
17	21683	2	CAPSCREW,7/16 X 2 NC
18	-----	-	MAIN FRAME - REFER TO MAIN FRAME PARTS
19	06520250	1	BEARING, WASHER

COMMON SABER

QUICK COUPLERS



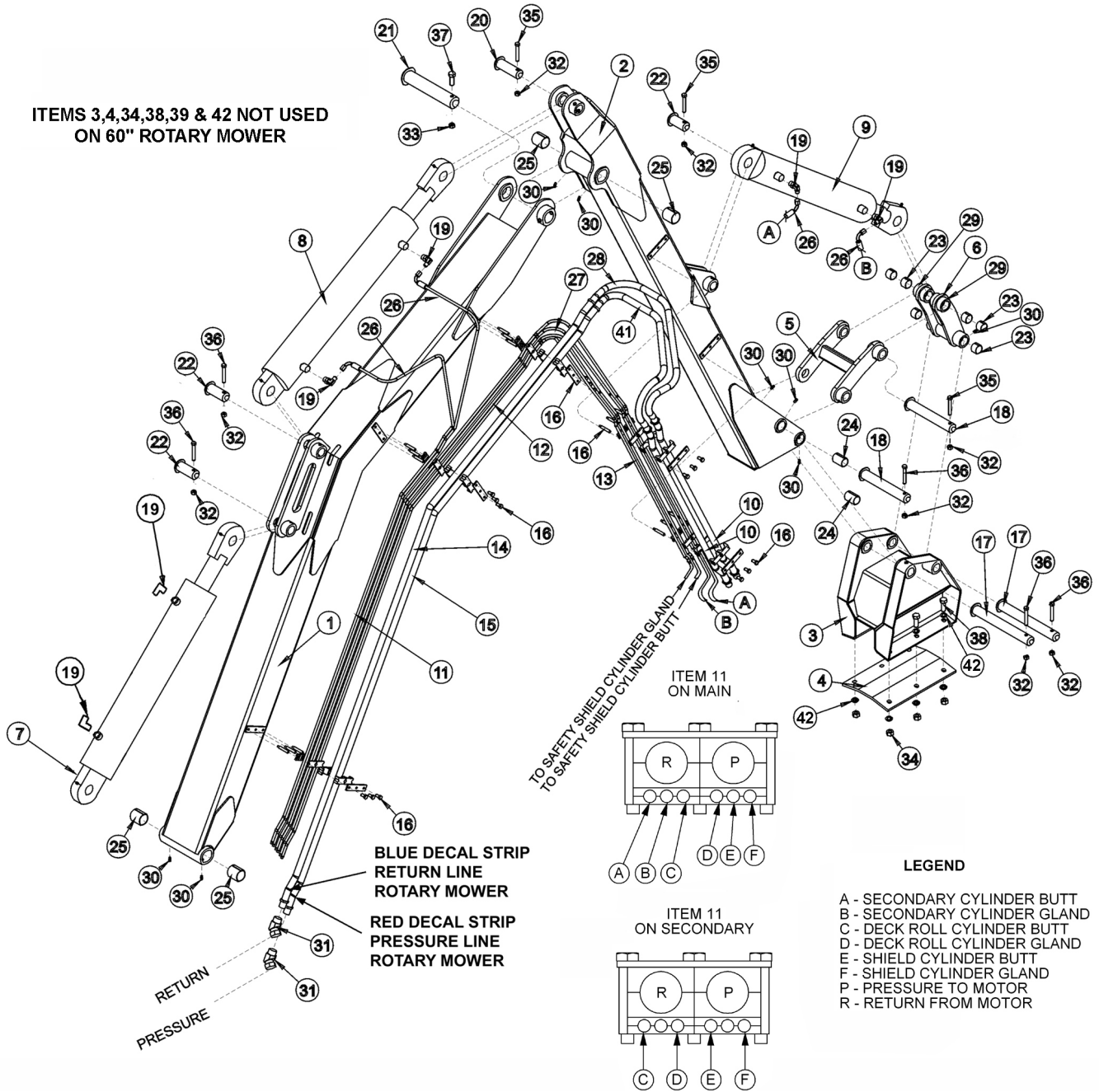
QUICK COUPLERS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	34392	2	ADAPTER,1ORBX1FJX
2	06503028	2	QUICK COUPLER,1"SAE,MALE,FLAT
3	06503027	2	QUICK COUPLER,1"SAE,FEM,FLAT
4	33555	2	ADAPTER,1MORBX1MJIC
5	-----	-	PREFORMED TUBES - REFER TO BOOM ARM PARTS
6	-----	-	#16 HOSE - REFER TO HYDRAULICS PARTS

SABER BOOM ASSEMBLY

ITEMS 3,4,34,38,39 & 42 NOT USED
ON 60" ROTARY MOWER



ITEM	PART NO.	QTY.	DESCRIPTION
1	32743	1	MAIN BOOM W/BEARING
2	32744	1	SECONDARY BOOM W/BEARING
3	32311	1	MOUNT,SWIVEL HEAD
4	32309	1	MOUNT HEAD PLATE
5	32316	1	LINKAGE,BOOM TO CYLINDER
6	32745	1	LINKAGE W/BEARING,CYLINDER TO SWIVEL

COMMON SABER

SABER BOOM ASSEMBLY

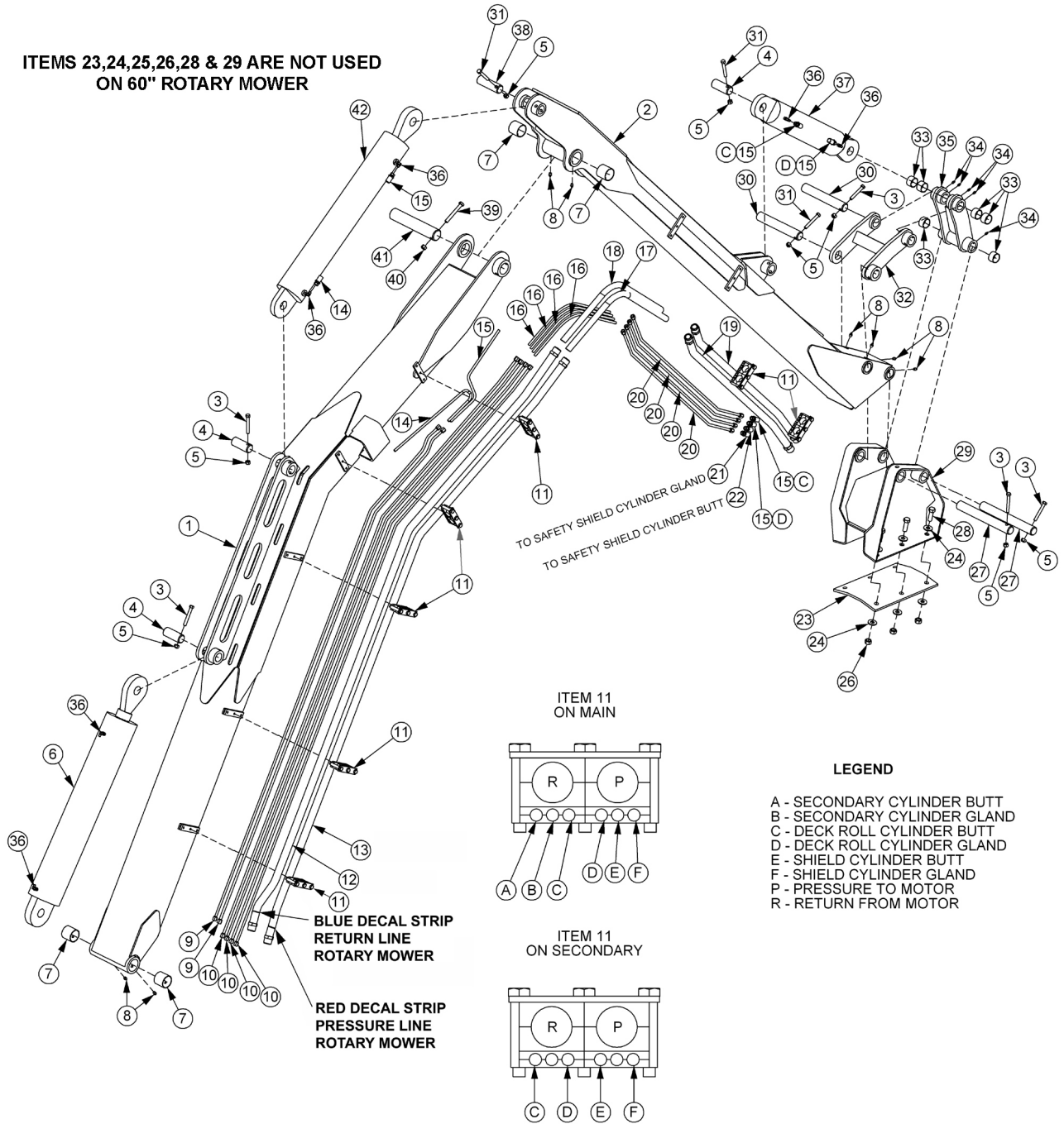
Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
7	32363	1	CYLINDER,5" X 25"
8	32364	1	CYLINDER,4-1/2" X 26-1/2"
9	32365	1	CYLINDER,4" X 15"
10	33542	2	PREFORMED TUBE,1"
11	32627	2	PREFORMED TUBE,3/8"
12	32628	4	PREFORMED TUBE,3/8"
13	32629	4	PREFORMED TUBE,3/8"
14	33541	1	PREFORMED TUBE,1" (ROTARY RETURN)
15	33540	1	PREFORMED TUBE,1" (ROTARY PRESSURE)
16	33215	5	TUBE CLAMP KIT
17	32313	2	PIN
18	32319	2	PIN
19	32810	6	ELBOW
20	32372	1	PIN
21	32374	1	PIN
22	32375	3	PIN
23	32318	6	BEARING
24	32321	4	BEARING
25	32362	4	BEARING
26	32818	4	HOSE,3/8" X 24"
27	32680	4	HOSE,3/8" X 43"
28	33544	1	HOSE,1" X 40"
29	6T3207	6	GREASE ZERK
30	6T3211	8	GREASE ZERK
31	24724	2	SWIVEL
32	21677	8	NYLOCK NUT,7/16",NC
33	21727	1	NYLOCK NUT,1/2",NC
34	6T2408	6	HEX NUT,5/8",NC
35	21687	3	CAPSCREW,7/16" X 3",NC
36	21688	5	CAPSCREW,7/16" X 3-1/4",NC
37	21741	1	CAPSCREW,1/2" X 4",NC
38	6T2290	6	CAPSCREW,5/8" X 2",NC
40	35260	1	HOSE COVER (NOT SHOWN)
41	33543	1	HOSE,1" X 39"
42	25270	12	FLATWASHER,5/8",USS

COMMON SABER

SABER MB BOOM ASSEMBLY

ITEMS 23,24,25,26,28 & 29 ARE NOT USED ON 60" ROTARY MOWER



ITEM	PART NO.	QTY.	DESCRIPTION
1	06310075	1	BOOM,MB,PRIMARY,SABER
2	06310076	1	BOOM,MB,SECONDARY,SABER
3	21688	5	CAPSCREW,7/16" X 3-1/4,NC
4	32375	3	PIN,1-1/2" X 3-13/16",W/HOLE
5	21677	8	NYLOCK NUT,7/16",NC
6	32363	1	CYLINDER,5" X 25"

COMMON SABER

SABER MB BOOM ASSEMBLY

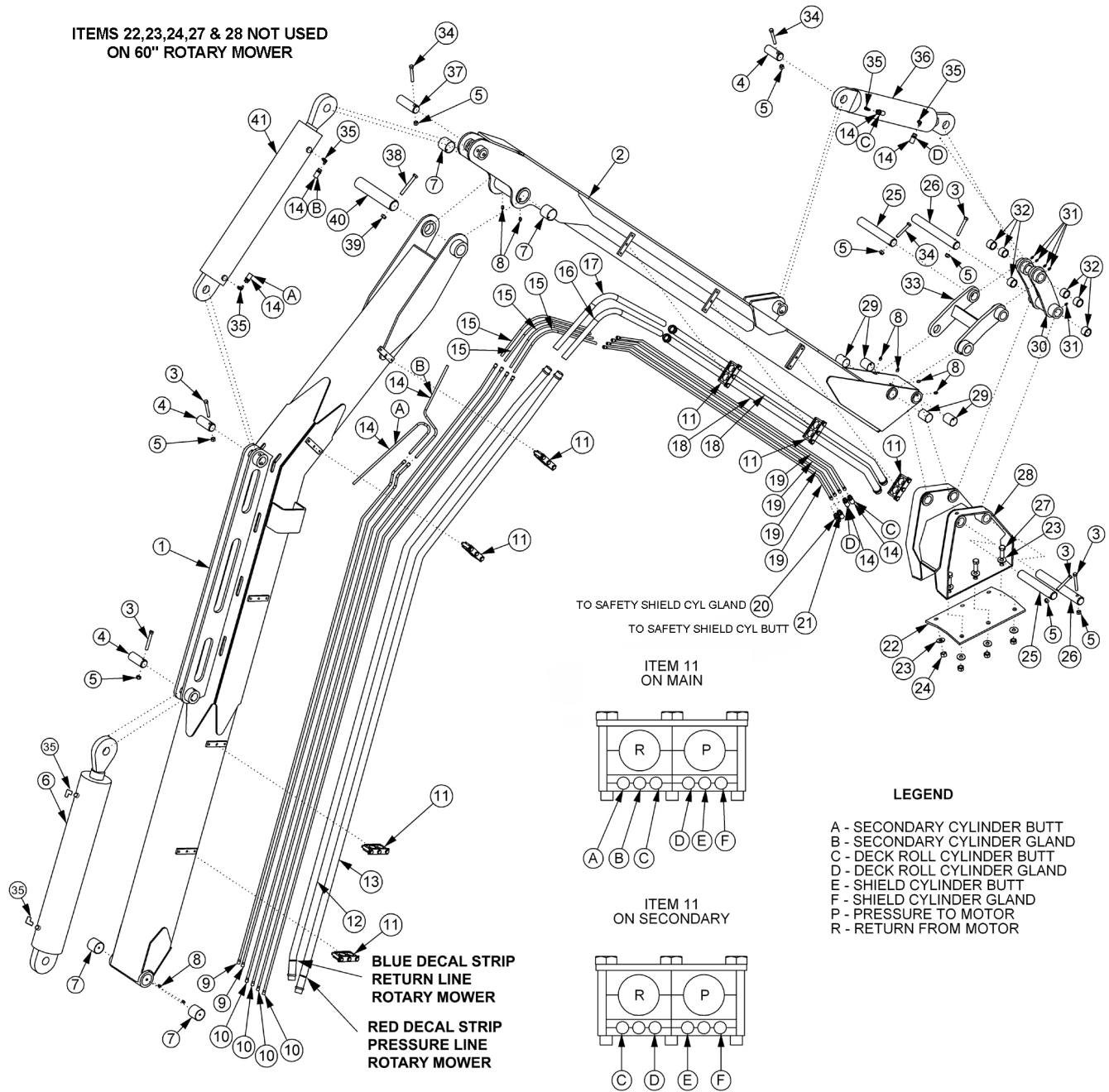
Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
7	32362	4	BEARING,DX,2" X 2" LONG
8	6T3211	8	GREASE ZERK,1/8" X STR
9	06506042	2	PRFRMD,1,MAIN,SABER MB
10	06506043	4	PRFRMD,2,MAIN,SABER MB
11	33215	7	TUBE CLAMP KIT
12	06506045	1	PRFRMD,4,MAIN,SABER MB (ROTARY RETURN)
13	06506044	1	PRFRMD,3,MAIN,SABER MB (ROTARY PRESSURE)
14	06500488	1	HOSE,3/8 X 39"
15	32818	3	HOSE,3/8" X 24"
16	06500489	4	HOSE,3/8" X 52"
17	06500491	1	HOSE,1" X 47"
18	06500490	1	HOSE,1" X 49"
19	33542	2	PRFRMD,2,SEC,SABER
20	32629	4	PRFRMD,1,SEC,SABER
21	33223	1	HOSE,3/8" X 70"
22	33222	1	HOSE,3/8" X 59"
23	32309	1	PLATE,MOUNT,HEAD,MOWER
24	25270	12	FLATWASHER,5/8",GR 8
26	6T2408	6	HEX NUT,5/8",NF
27	32313	2	PIN,MOUNT,SWIVEL
28	6T2290	6	CAPSCREW,5/8" X 2",NF,GR 8
29	32311	1	MOUNT,SWIVEL,HEAD,MOWER
30	32319	2	PIN,LINKAGE,BOOM
31	21687	3	CAPSCREW,7/16" X 3",NC
32	32316	1	LINKAGE,BOOM TO CYLINDER,SABER
33	32318	6	BEARING,DX,1-1/2" X 1" LONG
34	6T3207	6	GREASE ZERK,1/4"
35	32745	1	LINKAGE W/BUSHINGS,SABER
36	32810	6	ELBOW,1/2ORB X 3/8MJ
37	32365	1	CYLINDER,4" X 15"
38	32372	1	PIN,CYLINDER,STAGE,2ND
39	21741	1	CAPSCREW,1/2" X 4",NC
40	21727	1	NYLOCK NUT,1/2"
41	32374	1	PIN,BOOM,STAGE 1ST TO 2ND
42	32364	1	CYLINDER,4-1/2" X 26-1/2"

COMMON SABER

SABER XB BOOM ASSEMBLY

ITEMS 22,23,24,27 & 28 NOT USED
ON 60" ROTARY MOWER



ITEM	PART NO.	QTY.	DESCRIPTION
1	06310031	1	BOOM, LONG, PRIMARY, SABER
2	06310032	1	BOOM, LONG, SECONDARY, SABER
3	21688	5	CAPSCREW, 7/16" X 3-1/4", NC
4	32375	3	PIN, 1-1/2" X 3-13/16", W/HOLE
5	21677	8	NYLOCK NUT, 7/16", NC
6	32363	1	CYLINDER, 5" X 25"

COMMON SABER

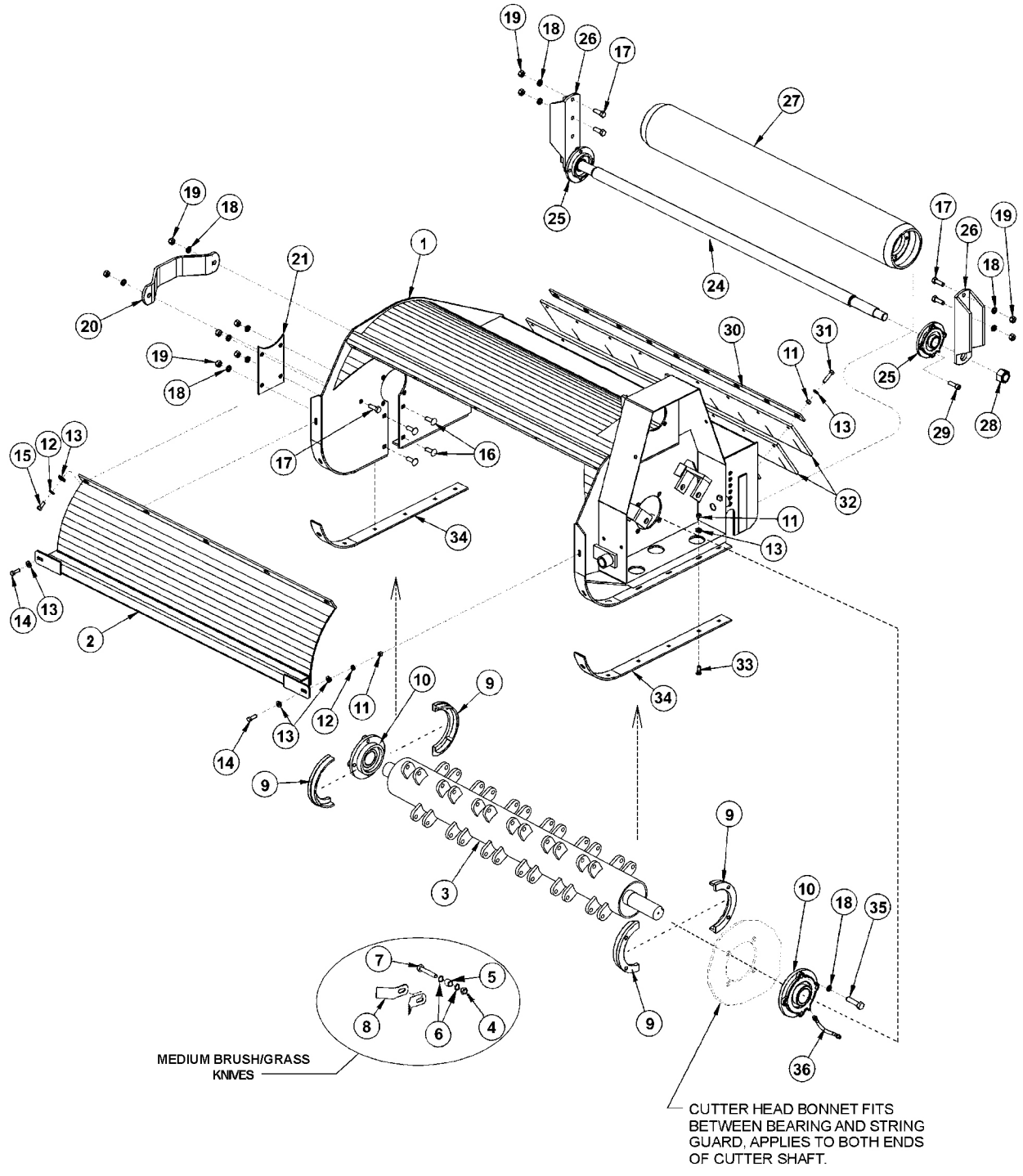
SABER XB BOOM ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
7	32362	4	BEARING,DX,2" X 2" LONG
8	6T3211	8	GREASE ZERK,1/8" X STR
9	06506029	2	PRFRMD,1,MAIN,SABER XB
10	06506030	4	PRFRMD,2,MAIN,SABER XB
11	33215	7	TUBE CLAMP KIT
12	06506032	1	PRFRMD,4,MAIN,SABER XB (ROTARY RETURN)
13	06506031	1	PRFRMD,3,MAIN,SABER XB (ROTARY PRESSURE)
14	32818	4	HOSE,3/8" X 24"
15	32680	4	HOSE,3/8" X 43"
16	33543	1	HOSE,1" X 39"
17	33544	1	HOSE,1" X 40"
18	06506034	2	PRFRMD,2,SEC,SABER XB
19	06506033	4	PRFRMD,1,SEC,SABER XB
20	33223	1	HOSE,3/8" X 70"
21	33222	1	HOSE,3/8" X 59"
22	32309	1	PLATE,MOUNT,HEAD,MOWER
23	25270	12	FLATWASHER,5/8",GR 8
24	6T2408	6	HEX NUT,5/8",NF
25	32319	2	PIN,LINKAGE,BOOM
26	32313	2	PIN,MOUNT,SWIVEL,HEAD,MOWER
27	6T2290	6	CAPSCREW,5/8" X 2",NF,GR 8
28	32311	1	MOUNT,SWIVEL,HEAD,MOWER
29	32321	4	BEARING,DX,1-1/2" X 2" LONG
30	32745	1	LINKAGE W/BUSHINGS,SABER
31	6T3207	6	GREASE ZERK,1/4"
32	32318	6	BEARING,DX,1-1/2" X 1" LONG
33	32316	1	LINKAGE,BOOM TO CYLINDER,SABER
34	21687	3	CAPSCREW,7/16" X 3", NC
35	32810	6	ELBOW,1/2ORB X 3/8MJ
36	32365	1	CYLINDER,4" X 15"
37	32372	1	PIN,CYLINDER,STAGE,2ND
38	21741	1	CAPSCREW,1/2" X 4",NC
39	21727	1	NYLOCK NUT,1/2"
40	32374	1	PIN,BOOM,STAGE 1ST TO 2ND
41	32364	1	CYLINDER,4-1/2" X 26-1/2"

COMMON SABER

50IN FLAIL ASSEMBLY



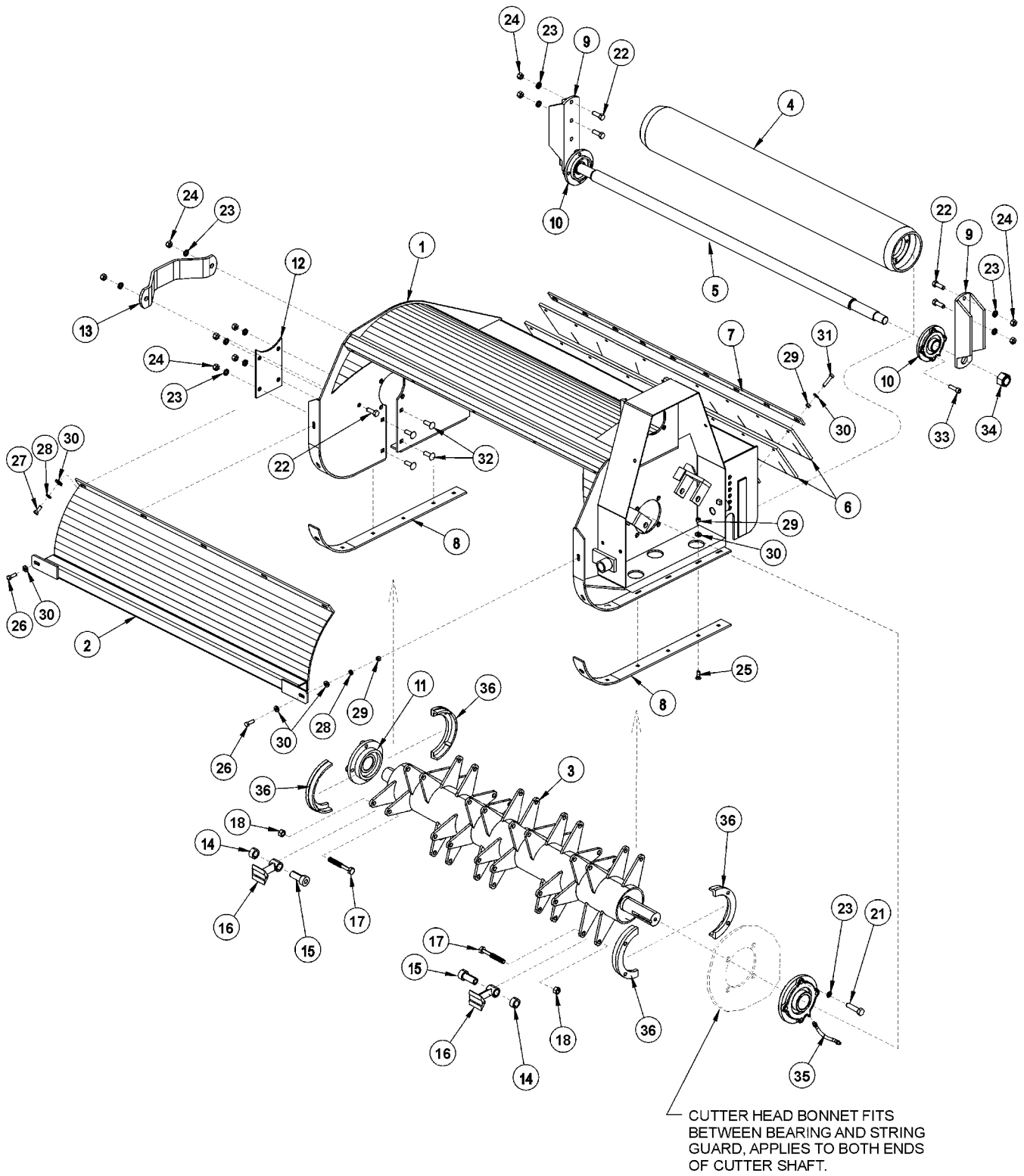
50IN FLAIL ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
----	06742138	1	FLAIL,BOOM,50,MD GRASS,CPLT ASSY (MEDIUM BRUSH/GRASS)
1	06320145	1	CUTTER HEAD BONNET
2	TF3004	1	FRONT SHIELD
3	06700115	1	TBF50 (MEDIUM BRUSH/GRASS KNIFE ASSY)
4	6T2419	24	HEX NUT,9/16",NC,STOVER
5	41725.01	24	BUSHING,1"OD X 5/8"ID
6	06430122	48	SPACER (MEDIUM BRUSH/GRASS KNIVES)
7	34786	24	CAPSCREW,9/16" X 3-1/2",NC
8	06521007	48	KNIFE (MEDIUM 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
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

COMMON SABER

50IN FLAIL ASSEMBLY, PASS-THROUGH KNIVES



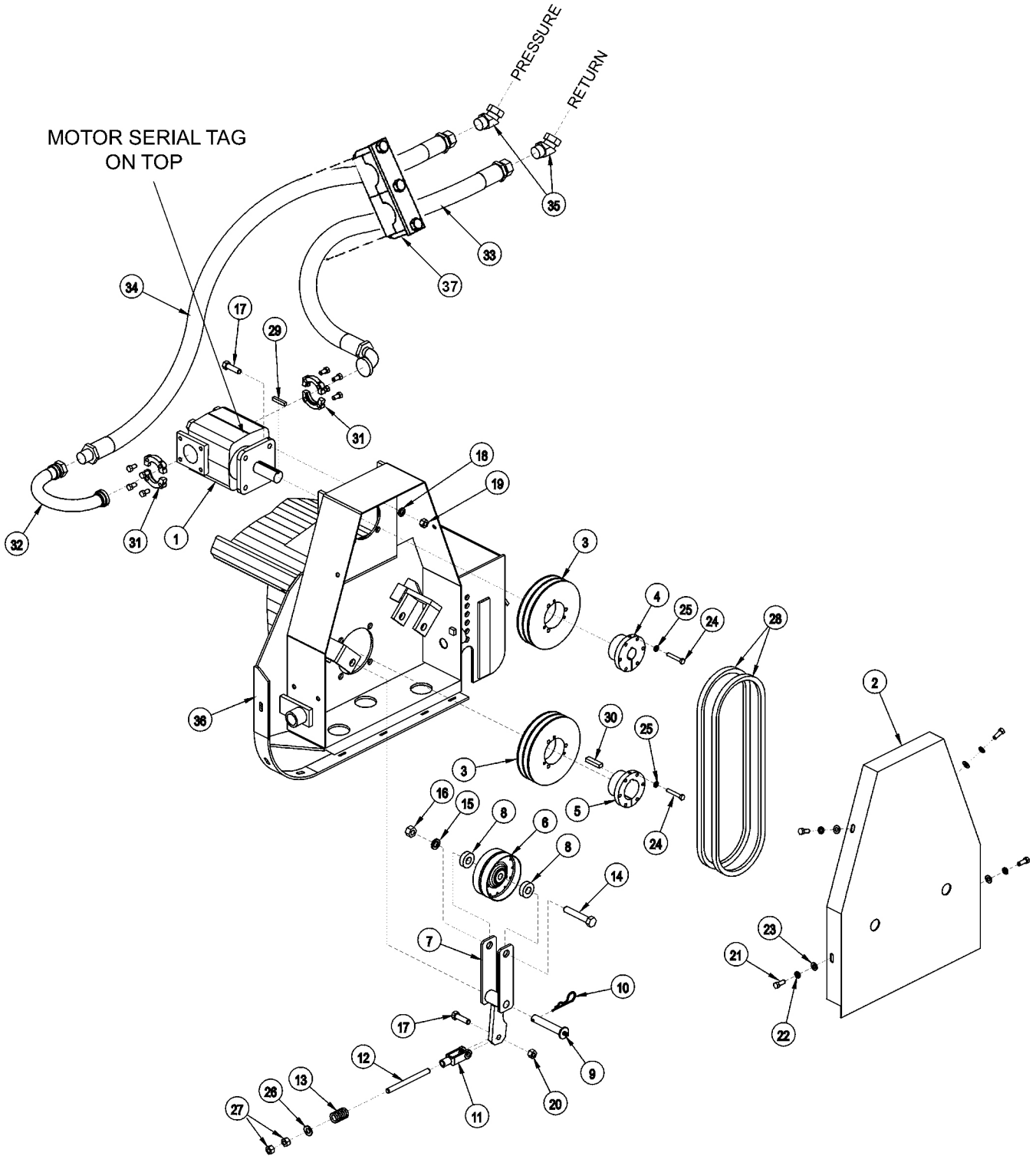
50IN FLAIL ASSEMBLY, PASS-THROUGH KNIVES

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
---	06742135	1	FLAIL,BOOM,50,CPLT ASSY
1	06320145	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
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)

COMMON SABER

50IN FLAIL DRIVE ASSEMBLY



50IN FLAIL DRIVE ASSEMBLY

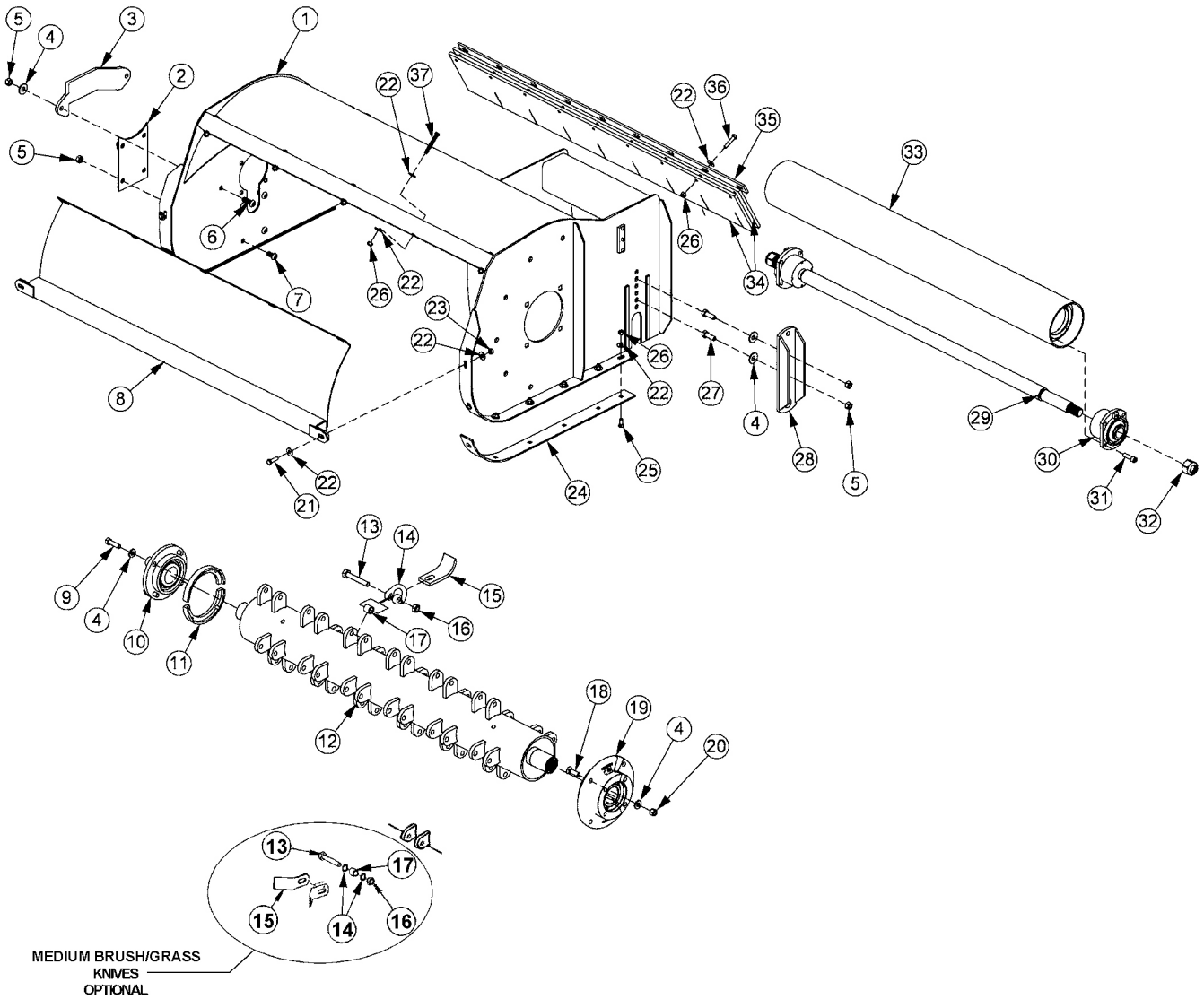
Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504354	1	MOTOR
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",NC
15	21992	1	LOCKWASHER,5/8"
16	21775	1	HEX NUT,5/8",NC
17	21732	5	CAPSCREW,1/2" X 1-3/4",NC
18	21990	4	LOCKWASHER,1/2"
19	21725	4	HEX NUT,1/2",NC
20	6T2418	1	LOCK NUT,1/2"
21	21630	4	CAPSCREW,3/8" X 1",NC
22	21988	4	LOCKWASHER,3/8"
23	22016	4	FLATWASHER,3/8"
24	21584	6	CAPSCREW,5/16" X 2",NC
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	06506038	1	PREFORMED TUBE
33	06500025	1	HOSE,1 X 71 (RETURN)
34	06500469	1	HOSE,1 X 81 (PRESSURE)
35	24724	2	SWIVEL FITTING
36	-----	-	CUTTER HEAD
37	06505130	1	CLAMP,HOSE

COMMON SABER

SABER DIRECT DRIVE FLAIL ASSY

Parts of this machine are protected by U.S. Patent number 7,930,872 B2



ITEM	PART NO.	QTY.	DESCRIPTION
---	06742086	1	BONNET,SBF50,DD,ASSY (LIGHT BRUSH)
----	06742142	1	BONNET,SBF50,DD,ASSY (MEDIUM BRUSH)

COMMON SABER

SABER DIRECT DRIVE FLAIL ASSY

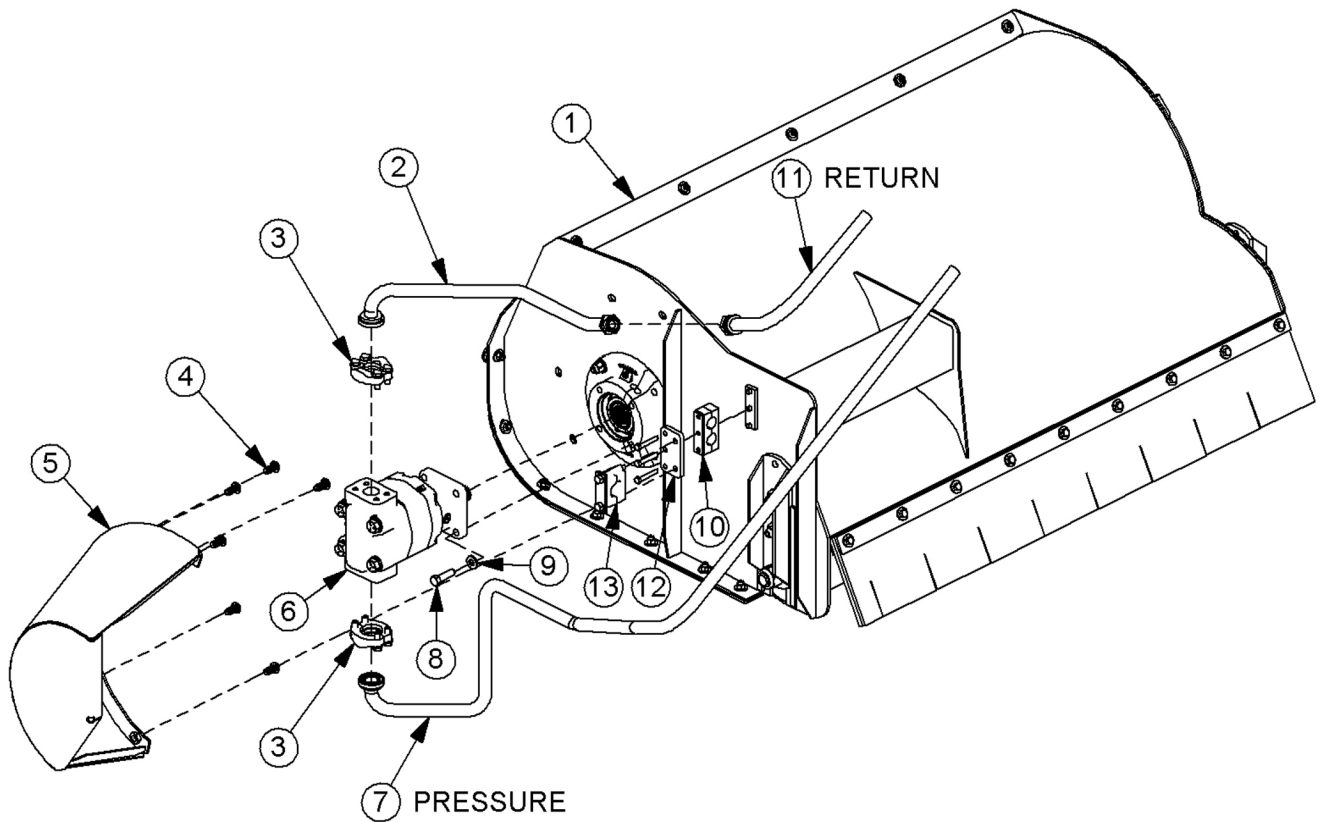
Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06320112	1	BONNET
2	TF3007A	1	COVER PLATE
3	06410794	1	GUARD
4	06533006	14	FLATWASHER,1/2",GR 9
5	21727	10	NYLOCK NUT,1/2",NC
6	06530404	2	CAPSCREW,SKT/BUT HD,1/2" X 1-1/2",NC
7	06530401	4	CAPSCREW,SKT/BUT HD,1/2" X 1",NC
8	06320127	1	DOOR,SBF50 DD
9	06530218	4	CAPSCREW,1/2" X 1-3/4",NC,L9
10	06520211	1	BEARING W/ HOUSING
11	31204	1	STRING GUARD
---	06700123	1	CUTTERSHAFT ASSY (LIGHT BRUSH)
----	06700153	1	CUTTERSHAFT ASSY (MEDIUM BRUSH)
12	06370124	1	CUTTERSHAFT W/ INSERT
13	34786	24	KNIFE MNTG BOLT
14	34782	24	KNIFE MNTG CLEVIS (LIGHT BRUSH)
---	06430122	48	SPACER (MEDIUM BRUSH)
15	34780	24	KNIFE (LIGHT BRUSH)
---	06521007	48	KNIFE (MEDIUM BRUSH)
16	6T2419	24	HEX NUT,9/16",STOVER
17	41725.01	24	SPACER
18	06537030	4	PLOW BOLT,1/2" X 1-3/4",NC,GR8
19	06520190	1	BEARING,DRIVE
20	06531005	4	HEX NUT,1/2",NC,L9
21	21631	2	CAPSCREW,3/8" X 1-1/4",NC,GR8
22	22016	35	FLATWASHER,3/8"
23	21627	2	NYLOCK NUT,3/8",NC
24	06410802	2	SKID SHOE
25	6T2270	12	PLOW BOLT,3/8" X 1",NC
26	21625	26	HEX NUT,3/8",NC
27	21731	4	CAPSCREW,1/2" X 1-1/2",NC
28	06320125	2	BRACKET,GROUND ROLLER
29	31452	1	AXLE,TIE-ROD
30	TF1022	2	BEARING,GROUND ROLLER
31	6T2330	8	CAPSCREW,SKT HD,7/16" X 1-1/2",NC
32	6T1023R	2	NYLOCK NUT,1-1/8",NF
33	TF3405	1	GROUND ROLLER
34	TB1006A	2	FLAP
35	TB1008	1	FLAP BAR
36	21633	9	CAPSCREW,3/8" X 1-3/4",NC,GR8
37	06530402	5	CAPSCREW,SKT/BUT HD,3/8" X 2-3/4",NC

COMMON SABER

SABER DIRECT DRIVE ASSEMBLY

Parts of this machine are
protected by U.S. Patent
number 7,930,872 B2



SABER DIRECT DRIVE ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	BONNET *REFER TO BONNET ASSY
2	06506040	1	PREFORMED TUBE
3	TF4852	2	FLANGE KIT
4	06530401	6	CAPSCREW,SKT/BUT HD,1/2" X 1",NC
5	06320126	1	MOTOR GUARD
6	06504003	1	MOTOR,DD
7	06500539	1	HOSE,1" X 82"
8	06530223	4	CAPSCREW,9/16" X 1-3/4",NC,GR8
9	06533003	4	FLATWASHER,9/16",GR9,SAE
10	06505014	1	CLAMP KIT
11	06500386	1	HOSE,1" X 52"
12	06401418	1	PLATE,CLAMP
13	06505017	1	CLAMP KIT,HOSE

COMMON SABER

63IN FLAIL ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
-----	06200658	1	FLAIL,BOOM,63",GRASS,CPLT ASSY
1	06320110	1	CUTTER HEAD BONNET
2	28743	1	CUTTER SHAFT / KNIFE ASSY STANDARD GRASS
-----	28642C	1	CUTTER SHAFT,63",STD
3	TF1021B	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",NC
10	21990	14	LOCKWASHER,1/2"
11	21731	6	CAPSCREW,1/2" X 1-1/2",NC
12	28650A	1	GROUND ROLLER
13	21838	1	CAPSCREW,3/4" X 3-1/2",NC
14	21825	1	HEX NUT,3/4",NC
15	28700	1	FLAP RETAINING BAR
16	21633	11	CAPSCREW,3/8" X 1-3/4",NC
17	21988	28	LOCKWASHER,3/8"
18	28701	2	DEFLECTOR FLAP
19	21625	28	HEX NUT,3/8",NC
20	TF1045B	2	GROUND ROLLER STUB SHAFT
21	6T2330	8	CAPSCREW,7/16" X 1-1/2",SKT HD,NC
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" SKT HD,NC
28	6T2270	10	PLOW BOLT,3/8" X 1-1/4",NC
29	21733	8	CAPSCREW,1/2" X 2",NC
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",NC
34	28665A	1	BAFFLE (INSIDE UPPER REAR OF CUTTER HEAD)

COMMON SABER

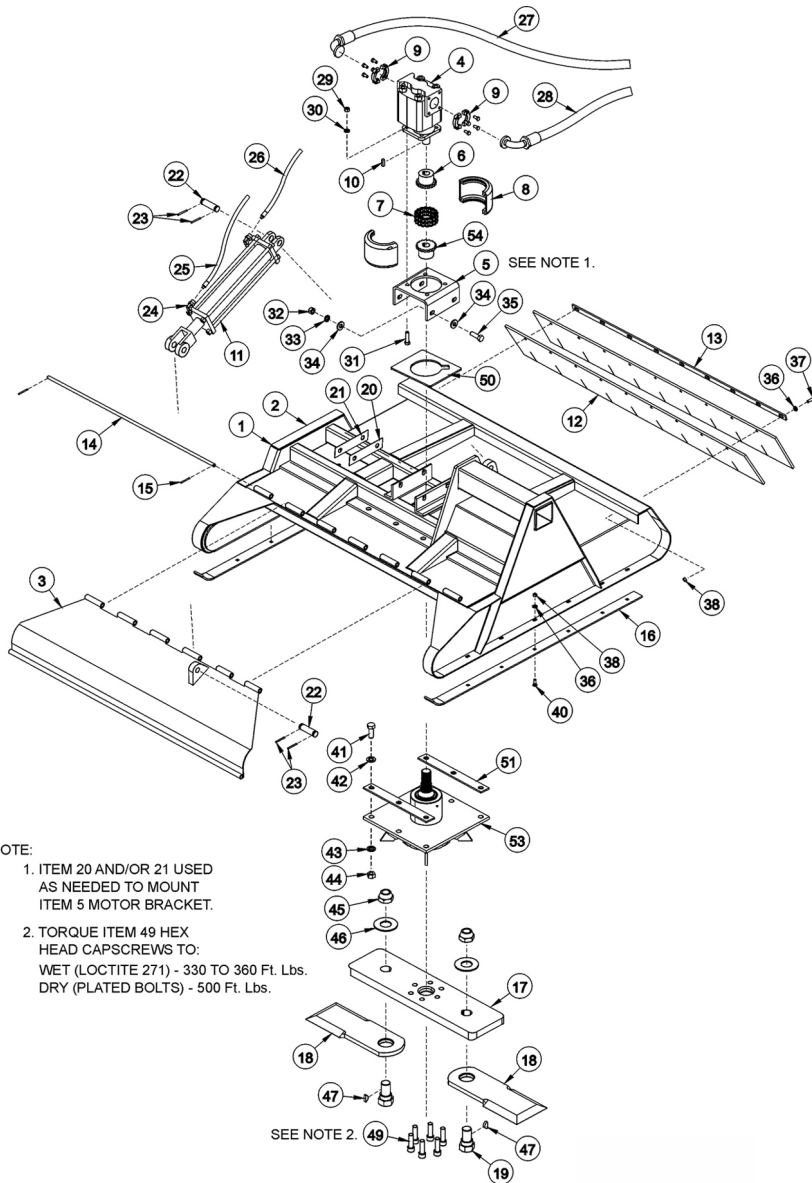
63IN FLAIL DRIVE ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06504354	1	MOTOR (M350-1 3/4 GEAR)
2	28703B	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	TF1025	1	SQUARE KEY
14	TF4852	2	FLANGE KIT
15	30308	1	HOSE,1" X 143" (PRESSURE)
16	30309	1	HOSE,1" X 143" (RETURN)
17	24724	2	SWIVEL FITTING
18	TF1033	1	GREASE ZERK
19	27580	1	BUSHING
20	28682	1	MOTOR CHANNEL WASHER
21	21732	5	CAPSCREW,1/2" X 1-3/4",NC
22	21990	5	LOCKWASHER,1/2"
23	21725	4	HEX NUT,1/2",NC
24	21727	1	NYLOCK NUT,1/2",NC
25	21630	3	CAPSCREW,3/8" X 1",NC
26	22016	2	FLATWASHER,3/8"
27	21988	3	LOCKWASHER,3/8"
28	21584	6	CAPSCREW,5/16" X 2",NC
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
33	35131	1	CLAMP,HOSE
34	06506038	1	PREFORMED TUBE

COMMON SABER

50IN SABER ROTARY MOWER



ITEM	PART NO.	QTY.	DESCRIPTION
1	33304	-	ROTARY,SABER 50",ASSY
2	32914	1	ROTARY,SABER 50",DECK
3	32915	1	SHIELD,50" ROTARY,SABER
4	06504012	1	MOTOR
5	33198	1	MOTOR MOUNTING BRACKET
6	34479	1	SPROCKET,MOTOR
7	34482	1	CHAIN COUPLING
8	34483	1	COVER COUPLING
9	TF4852	2	FLANGE KIT
10	TF1124	1	KEY,WOODRUFF
11	33185	1	CYLINDER

COMMON SABER

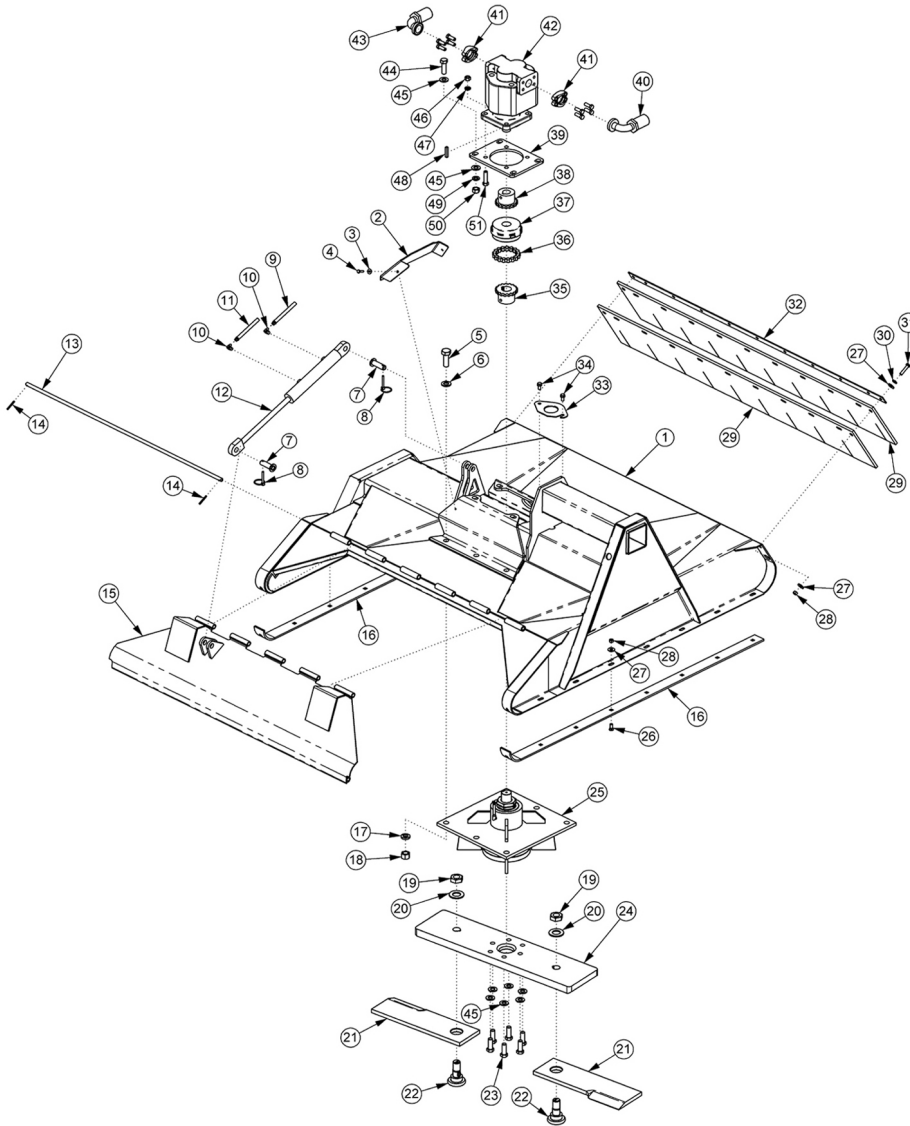
50IN SABER ROTARY MOWER

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
12	32952	2	DEFLECTOR FLAP
13	33211	1	RETAINING BAR,FLAP
14	32951	1	HINGE PIN,SHIELD
15	33924	2	ROLLPIN,HINGE PIN
16	32936	2	SKID SHOE
17	34509	1	BAR,KNIVE MOUNTING
18	33203	1	KNIVES,SET OF 2,ROTARY,3/4"
19	34883	2	BOLT,KNIFE
20	6T0822	3	SHIM,MOTOR MOUNT,THIN
21	6T0822A	3	SHIM,MOTOR MOUNT,THICK
22	TB1033	2	CLEVIS PIN
23	06537021	4	ROLL PIN,CLEVIS
24	3334306	2	ELBOW,3/8MP X 3/8MJ90
25	33223	1	HOSE,CYLINDER,3/8" X 70"
26	33222	1	HOSE,CYLINDER,3/8" X 59"
27	33548	1	HOSE,MOTOR - RETURN (BLUE DECAL STRIP)
28	33549	1	HOSE,MOTOR - PRESSRUE (RED DECAL STRIP)
29	21725	4	HEX NUT,1/2",NC
30	21990	4	LOCK WASHER,1/2"
31	21733	4	CAPSCREW,1/2" X 2",NC
32	6T2408	4	HEX NUT,5/8",NF
33	21992	4	LOCK WASHER,5/8"
34	33764	8	FLAT WASHER,5/8"
35	6T2290	4	CAPSCREW,5/8" X 2",NF
36	22016	25	FLAT WASHER,3/8"
37	21633	9	CAPSCREW,3/8" X 1-3/4",NC
38	21625	25	HEX NUT,3/8",NC
40	6T2270	14	PLOW BOLT,3/8" X 1",NC
41	33879	6	CAPSCREW,3/4" X 2-1/2",NF
42	33880	6	FLAT WASHER,3/4"
43	21993	6	LOCK WASHER,3/4"
44	6T2413	6	HEX NUT,3/4",NF
45	33860	2	HEX NUT,KNIFE
46	33859	2	FLAT WASHER,KNIFE
47	PT209	2	KEY,WOODRUFF
49	34475	6	HEX HD CAPSCREW,3/4" X 2",NF
50	33614	1	PLATE,SPINDLE COLLAR
51	33617	2	SHIM,STRAP,SPINDLE
53	33219	1	SPINDLE
54	-----	-	SPROCKET *REFER TO SPINDLE PARTS
---	33891	-	KIT,KNIVES (INCLUDES ITEMS 18,19,39,45,46,47)

COMMON SABER

50IN SABER MB ROTARY MOWER



ITEM	PART NO.	QTY.	DESCRIPTION
---	06741036	-	ROTARY,SABER,ASSY
1	06320009	1	ROTARY,SABER,DECK
2	06410439	1	COVER,MOTOR MNT
3	22014	2	FLATWASHER,1/4"
4	21530	2	CAPSCREW,1/4" X 1",NC
5	33879	6	CAPSCREW,3/4" X 2-1/4",NF,GR 8
6	33880	6	FLATWASHER,3/4",GR 8,SAE
7	33984	2	PIN,SHIELD,50"
8	RD1032	2	PIN,LYNCH,1/4" X 2"
9	06500366	1	HOSE,3/8" X 98"
10	32810	2	ELBOW,1/2" X 3/8"
11	06500670	1	HOSE,3/8" X 108"

COMMON SABER

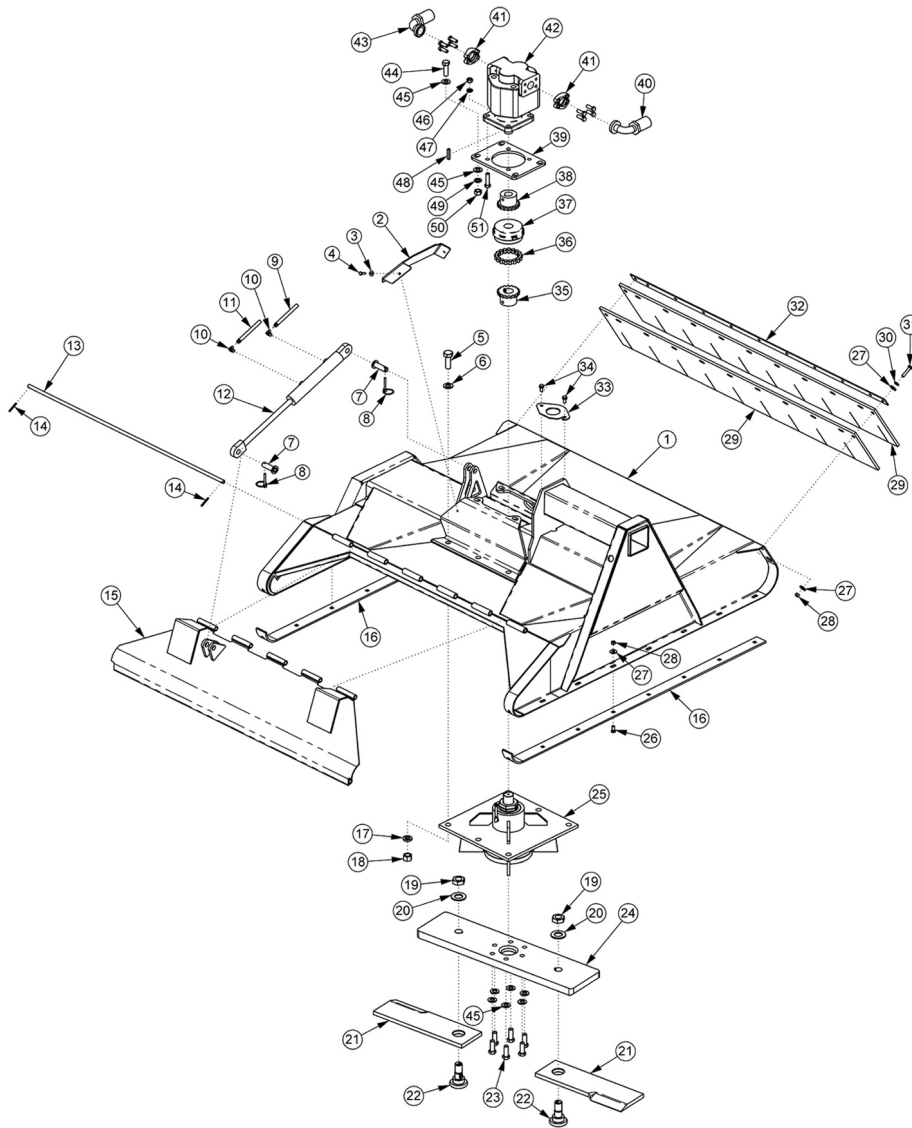
50IN SABER MB ROTARY MOWER

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
12	33785	1	CYL,1-1/2 X 8"
13	33778	1	HINGE PIN,50" RTRY
14	6T3017	2	ROLLPIN,3/16" X 1"
15	33754	1	SHIELD,50" RTRY
16	33777	2	SKID SHOE,50" RTRY
17	21993	6	LOCKWASHER,3/4",GR 8
18	6T2413	6	HEX NUT,3/4",NF,GR 8
19	6T1023R	2	KNIFE MTG NUT,1-1/8",NF,GR8
20	06533002	2	FLATWASHER,1-1/8",GR8
21	06521001	2	KNIFE,TRB 50,5/8"
22	06538000	2	KNIFE MTG BOLT,5/8",SHOULDER
23	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF,GR8
24	06400388	1	BAR,BLADE,TRB
25	6T1024H5	1	SPINDLE
26	6T2270	16	PLOW BOLT,3/8" X 1",NC,GR5
27	22016	29	FLATWASHER,3/8"
28	21625	29	HEX NUT,3/8",NC
29	33775	2	FLAP,50" RTRY
30	21988	13	LOCKWASHER,3/8"
31	21633	13	CAPSCREW,3/8" X 1-3/4",NC
32	33774	1	FLAP RETAINER,50" RTRY
33	33779	1	PLATE,COVER,KNF HOLE
34	33881	2	CAPSCREW,FLG,3/8" X 3/4",NC
35	-----	-	SPROCKET *REFER TO SPINDLE PARTS
36	6T1029	1	CHAIN,COUPLING (5016)
37	6T1033	1	COVER,COUPLING
38	21223	1	SPROKET,1-1/4" BORE
39	33776	1	MOTOR MOUNT,PLATE,50" RTRY
40	06500495	1	HOSE - PRESSURE (RED DECAL STRIP)
41	TF4852	2	KIT,FLANGE #20
42	06504012	1	MOTOR,(M365-1-1/2" GEAR)
43	06500669	1	HOSE - RETURN (BLUE DECAL STRIP)
44	6T2290	4	CAPSCREW,5/8" X 2",NF,GR 8
45	33764	14	FLATWASHER,5/8",GR 8,SAE
46	21725	4	HEX NUT,1/2" NC
47	21990	4	LOCKWASHER,1/2"
48	TF1124	1	KEY,WOODRUFF
49	21992	4	LOCKWASHER,5/8"
50	6T2408	4	HEX NUT,5/8",NF
51	21733	4	CAPSCREW,1/2" X 2",NC
52	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF,GR 8

COMMON SABER

50IN SABER XB ROTARY MOWER



ITEM	PART NO.	QTY.	DESCRIPTION
---	06741036	-	ROTARY,SABER XB,ASSY
1	06320009	1	ROTARY,SABER XB,DECK
2	06410439	1	COVER,MOTOR MNT
3	22014	2	FLATWASHER,1/4"
4	21530	2	CAPSCREW,1/4" X 1",NC
5	33879	6	CAPSCREW,3/4" X 2-1/4",NF,GR 8
6	33880	6	FLATWASHER,3/4",GR 8,SAE
7	33984	2	PIN,SHIELD,50"
8	RD1032	2	PIN,LYNCH,1/4" X 2"
9	06500291	1	HOSE,3/8" X 74"
10	32810	2	ELBOW,1/2" X 3/8"
11	06500292	1	HOSE,3/8" X 85"

COMMON SABER

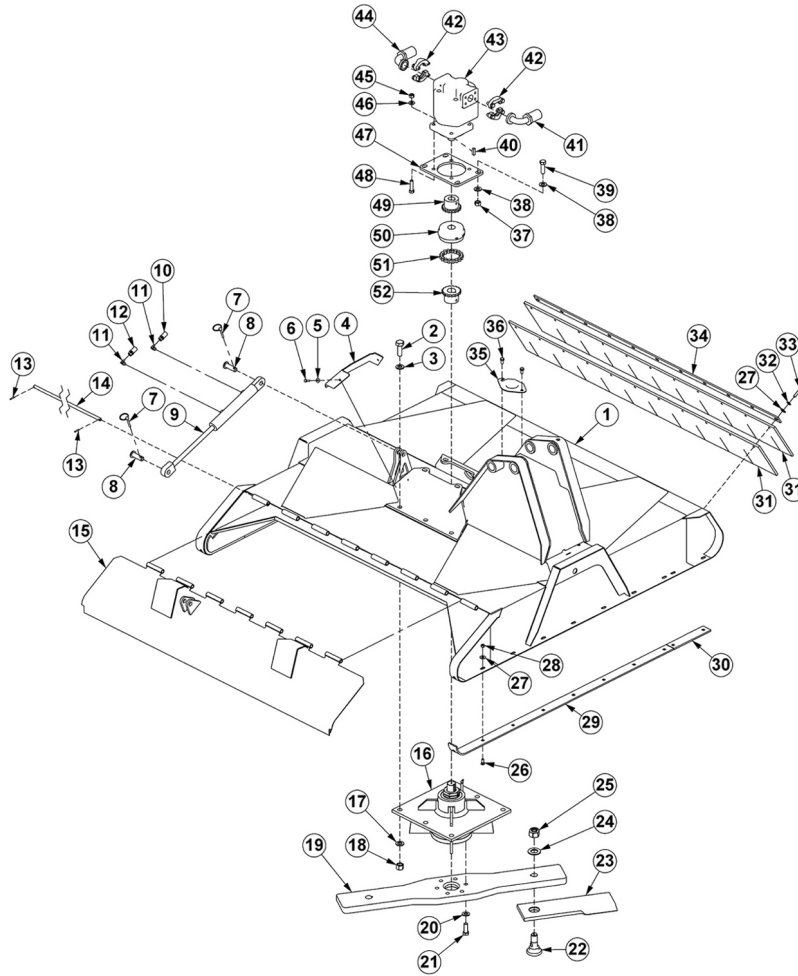
50IN SABER XB ROTARY MOWER

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
12	33785	1	CYL,1-1/2 X 8"
13	33778	1	HINGE PIN,50" RTRY
14	6T3017	2	ROLLPIN,3/16" X 1"
15	33754	1	SHIELD,50" RTRY
16	33777	2	SKID SHOE,50" RTRY
17	21993	6	LOCKWASHER,3/4",GR 8
18	6T2413	6	HEX NUT,3/4",NF,GR 8
19	6T1023R	2	KNIFE MTG NUT,1-1/8",NF,GR8
20	06533002	2	FLATWASHER,1-1/8",GR8
21	06521001	2	KNIFE,TRB 50,5/8"
22	06538000	2	KNIFE MTG BOLT,5/8",SHOULDER
23	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF,GR8
24	06400388	1	BAR,BLADE,TRB
25	6T1024H5	1	SPINDLE
26	6T2270	16	PLOW BOLT,3/8" X 1",NC,GR5
27	22016	29	FLATWASHER,3/8"
28	21625	29	HEX NUT,3/8",NC
29	33775	2	FLAP,50" RTRY
30	21988	13	LOCKWASHER,3/8"
31	21633	13	CAPSCREW,3/8" X 1-3/4",NC
32	33774	1	FLAP RETAINER,50" RTRY
33	33779	1	PLATE,COVER,KNF HOLE
34	33881	2	CAPSCREW,FLG,3/8" X 3/4",NC
35	-----	-	SPROCKET *REFER TO SPINDLE PARTS
36	6T1029	1	CHAIN,COUPLING (5016)
37	6T1033	1	COVER,COUPLING
38	21223	1	SPROKET,1-1/4" BORE
39	33776	1	MOTOR MOUNT,PLATE,50" RTRY
40	33549	1	HOSE - PRESSURE (RED DECAL STRIP)
41	TF4852	2	KIT,FLANGE #20
42	06504012	1	MOTOR,(M365-1-1/2" GEAR)
43	33548	1	HOSE - RETURN (BLUE DECAL STRIP)
44	6T2290	4	CAPSCREW,5/8" X 2",NF,GR 8
45	33764	14	FLATWASHER,5/8",GR 8,SAE
46	21725	4	HEX NUT,1/2" NC
47	21990	4	LOCKWASHER,1/2"
48	TF1124	1	KEY,WOODRUFF
49	21992	4	LOCKWASHER,5/8"
50	6T2408	4	HEX NUT,5/8",NF
51	21733	4	CAPSCREW,1/2" X 2",NC
52	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF,GR 8

COMMON SABER

60IN SABER ROTARY MOWER



ITEM	PART NO.	QTY.	DESCRIPTION
---	06741072	-	ROTARY,SABER 60",ASSY
1	06320169	1	ROTARY,SABER 60",DECK
2	33879	6	CAPSCREW, 3/4" X 2-1/4",NF GR 8
3	33880	6	FLATWASHER,3/4",GR 8,SAE
4	06410439	1	COVER,MOTOR MNT
5	22014	2	FLATWASHER,1/4"
6	21530	2	CAPSCREW,1/4" X 1",NC
7	RD1032	2	PIN,LYNCH,1/4" X 2"
8	33984	2	PIN,SHIELD
9	33785	1	CYL,1-1/2" X 8"
10	06500292	1	HOSE,3/8" X 85"
---	06500389	1	HOSE,3/8" X 88" (SABER MB)
11	32810	2	ELBOW,1/2" X 3/8"
12	06500384	1	HOSE,3/8" X 94"
---	06500366	1	HOSE,3/8" X 98" (SABER MB)
13	6T3017	2	ROLLPIN,3/16" X 1"

COMMON SABER

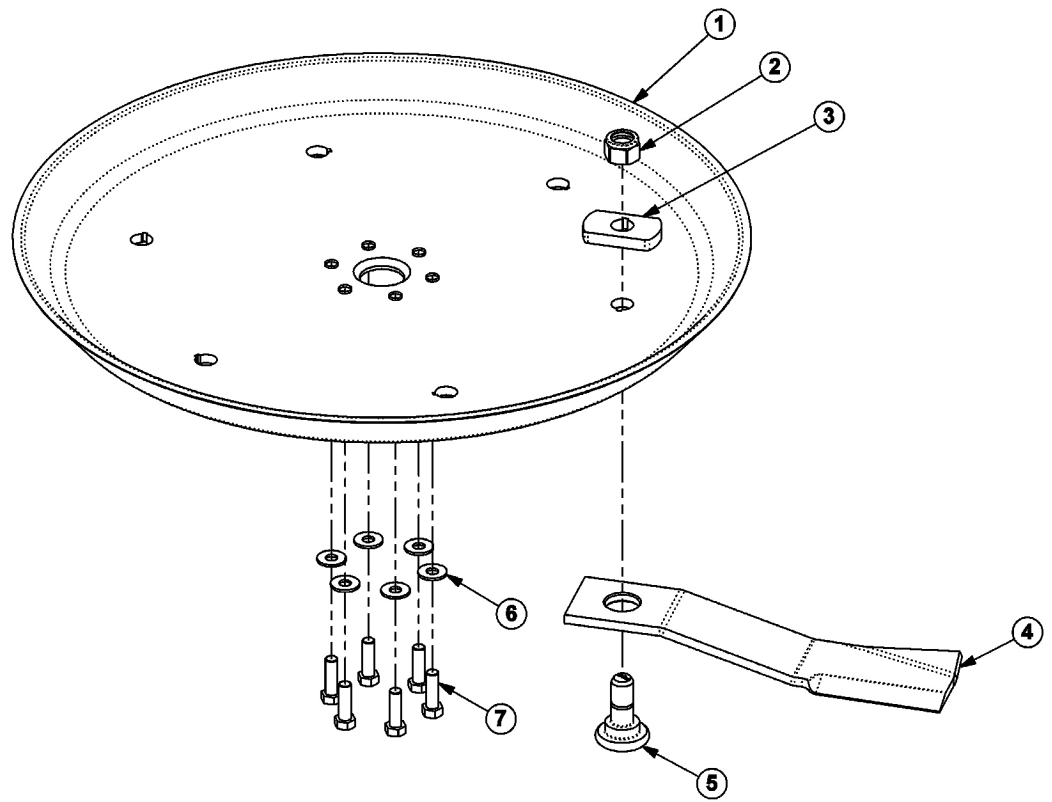
60IN SABER ROTARY MOWER

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
14	06420139	1	HINGE PIN,60" RTRY
15	06320162	1	SHIELD,60" RTRY
16	6T1024H5	1	SPINDLE
17	21993	6	LOCKWASHER,3/4",GR 8
18	6T2413	6	HEX NUT,3/4",NF,GR 8
19	06400690	1	BAR,BLADE,60" RTRY
20	33764	6	FLATWASHER,5/8",GR 8,SAE
21	6T2259	6	CAPSCREW,5/8" X 1-3/4",NF,GR 8
22	06538000	2	KNIFE MTG BOLT,5/8" SHOULDER
23	06521001	2	KNIFE,TRB50,5/8"
24	06533002	2	FLATWASHER,1-1/8",GR 8
25	6T1023R	2	KNIFE MTG NUT,1-1/8",NF,GR 8
26	6T2270	20	PLOW BOLT,3/8" X 1",NC,GR5
27	22016	31	FLATWASHER,3/8"
28	21625	20	HEX NUT,3/8",NC
29	33777	2	SKID SHOE,50" RTRY
30	06401245	2	SKID SHOE,60" RTRY
31	06520238	2	FLAP,DEFLECTOR,60" RTRY
32	21988	11	LOCKWASHER,3/8"
33	21633	11	CAPSCREW,3/8" X 1-3/4",NC
34	6T0823	1	FLAP RETAINER,60" RTRY
35	33779	1	PLATE,COVER,KNF HOLE
36	33881	2	CAPSCREW,FLG,3/8" X 3/4",NC
37	6T2408	4	HEX NUT,5/8",NF
38	33764	8	FLATWASHER,5/8",GR 8,SAE
39	6T2290	4	CAPSCREW,5/8" X 2",NF,GR 8
40	TF1124	1	KEY,WOODRUFF
41	33549	1	HOSE - PRESSURE (RED DECAL STRIP)
---	33548	1	HOSE - PRESSURE (SABER MB) (RED DECAL STRIP)
42	TF4852	2	KIT,FLANGE #20
43	06504011	1	MOTOR,(M365-2-1/4" GEAR)
44	33548	1	HOSE - RETURN (BLUE DECAL STRIP)
---	06500495	1	HOSE - RETURN (SABER MB) (BLUE DECAL STRIP)
45	21727	4	NYLOCK NUT,1/2",NC
46	06533004	4	FLATWASHER,1/2",GR 8,SAE
47	33776	1	MOTOR MOUNT,PLATE,50" RTRY
48	21733	4	CAPSCREW,1/2" X 2",NC
49	21223	1	SPROCKET,1-1/4" BORE
50	6T1033	1	COVER,COUPLING
51	6T1029	1	CHAIN,COUPLING (5016)
52	-----	-	SPROCKET *REFER TO SPINDLE PARTS

COMMON SABER

60IN ROTARY KNIFE AND DISH OPTION



60IN ROTARY KNIFE AND DISH OPTION

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	34876	1	BLADE MOUNTING DISK
2	6T1023R	2	NYLOCK NUT,1-1/8"
3	34878	2	SPACER
4	34497	2	KNIFE MOUNTING BOLT
5	34684	2	GRASS KNIFE
6	33764	6	FLATWASHER
7	6T2259	6	CAPSCREW
---	27167	1	BOLT KIT (INCLUDES ITEMS 6 & 7)
----	6T1825	1	LOCTITE - USED ON ALL DISK MOUNTING BOLTS
---	33893	1	KNIFE KIT (INCLUDES ITEMS 2, 4 & 5)

COMMON SABER

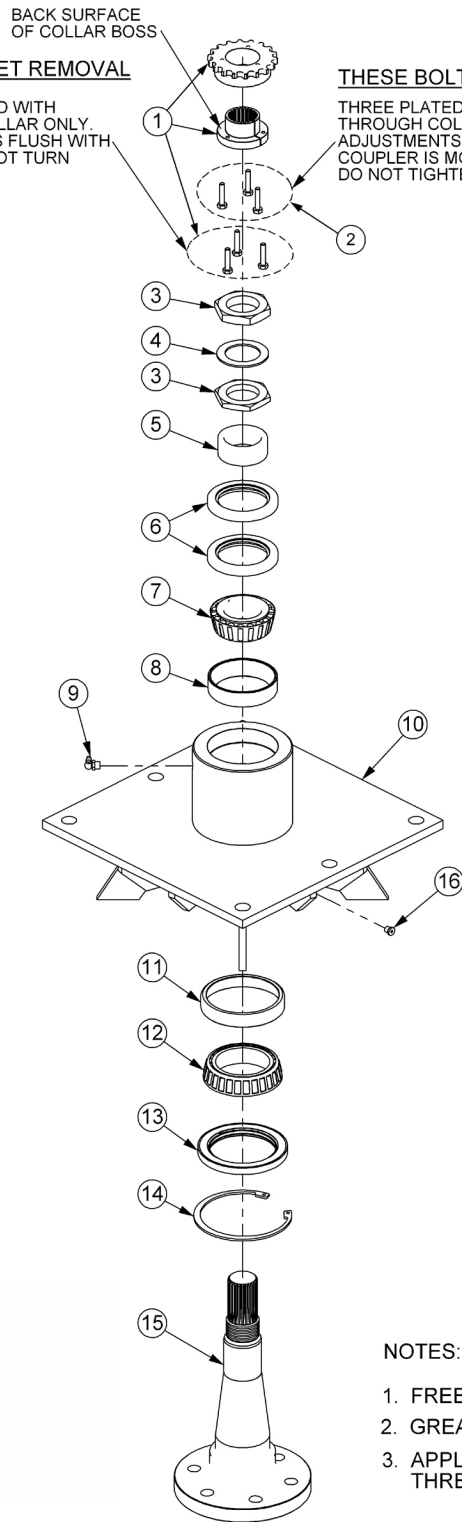
SABER SPINDLE ASSEMBLY

THESE BOLTS ARE FOR SPROCKET REMOVAL

THREE BLACK COLORED BOLTS SUPPLIED WITH TAPERLOCK BEARING. THREAD INTO COLLAR ONLY. TURN BOLTS INTO COLLAR UNTIL BOLT IS FLUSH WITH BACK SURFACE OF COLLAR BOSS. DO NOT TURN IN ANY FURTHER OR TIGHTEN.

THESE BOLTS ARE FOR ASSEMBLY

THREE PLATED BOLTS. THESE BOLTS SLIP THROUGH COLLAR AND THREAD INTO SPROCKET. ADJUSTMENTS ARE REQUIRED WHEN CHAIN COUPLER IS MOUNTED TO SPINDLE ASSEMBLY. DO NOT TIGHTEN BOLTS UNTIL THAT TIME.



NOTES:

1. FREEPLAY: .001" - .003"
2. GREASE: FILL WITH MOBILITH SHC 220.
3. APPLY LOCKTIGHT "271" TO O-RING PLUG THREADS.

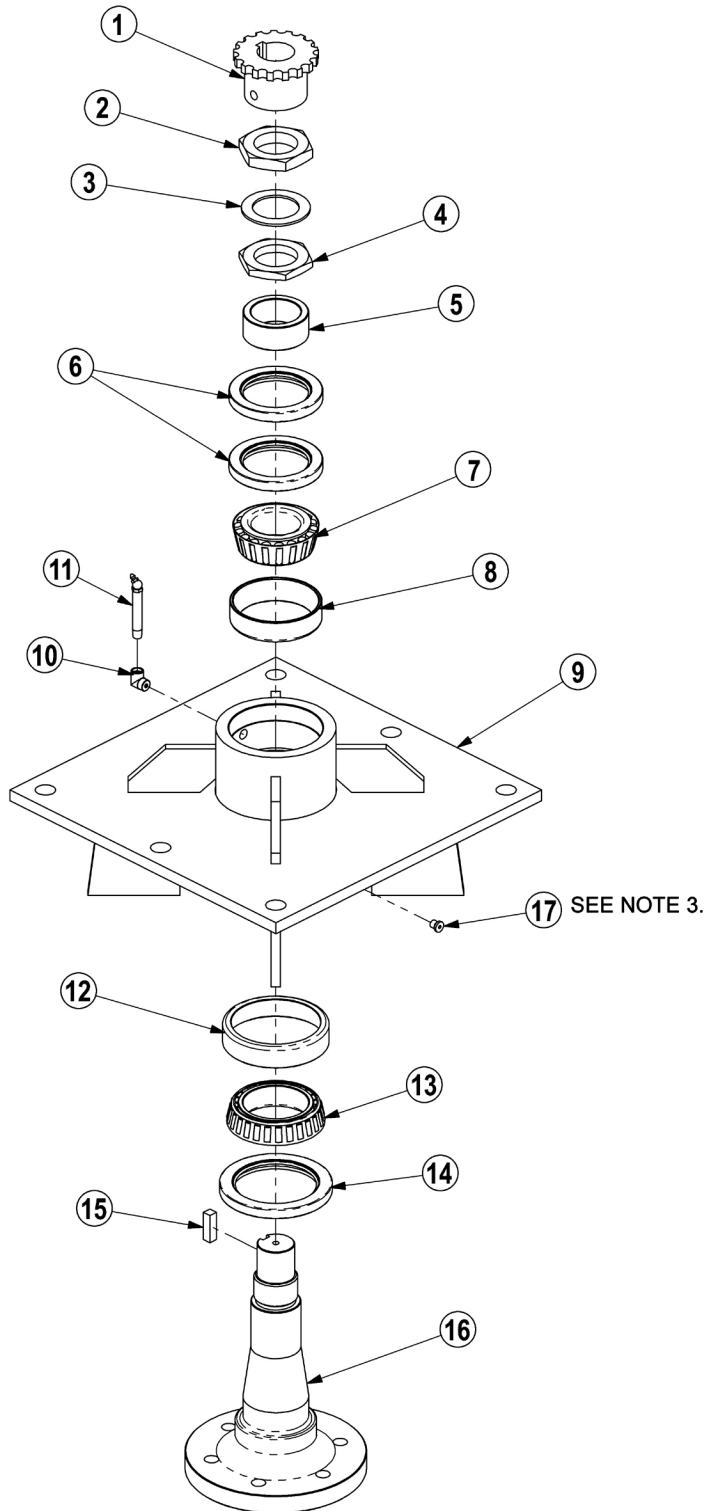
SABER SPINDLE ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
---	33219	-	SPINDLE ASSY,ROTARY
1	34480	1	TAPERLOCK SPROCKET
2	21530	3	CAPSCREW,1/4" X 1",NC
3	6T1015	2	BEARING LOCK NUT,THIN
4	22596	1	JAMWASHER
5	6T1014	1	BEARING ADJUST SLEEVE
6	6T1011	2	UPPER SEAL,SMALL
7	6T1012	1	BEARING CONE,SMALL
8	6T1013	1	BEARING CUP,SMALL
9	6T3210	1	GREASE ZERK
10	32953	1	SPINDLE HOUSING,SABER
11	33200	1	BEARING CUP,LARGE
12	33199	1	BEARING CONE,LARGE
13	33201	1	LOWER SEAL,LARGE
14	33202	1	SNAP RING
15	33186	1	SPINDLE,SABER
16	06503064	1	O-RING PLUG,1/8"

COMMON SABER

SABER XB & 60IN SPINDLE ASSY



NOTES:

1. FREEPLAY: .001" - .003"
2. GREASE: FILL WITH MOBILITH SHC 220.
3. APPLY LOCTITE "271" TO O-RING PLUG THRDS.

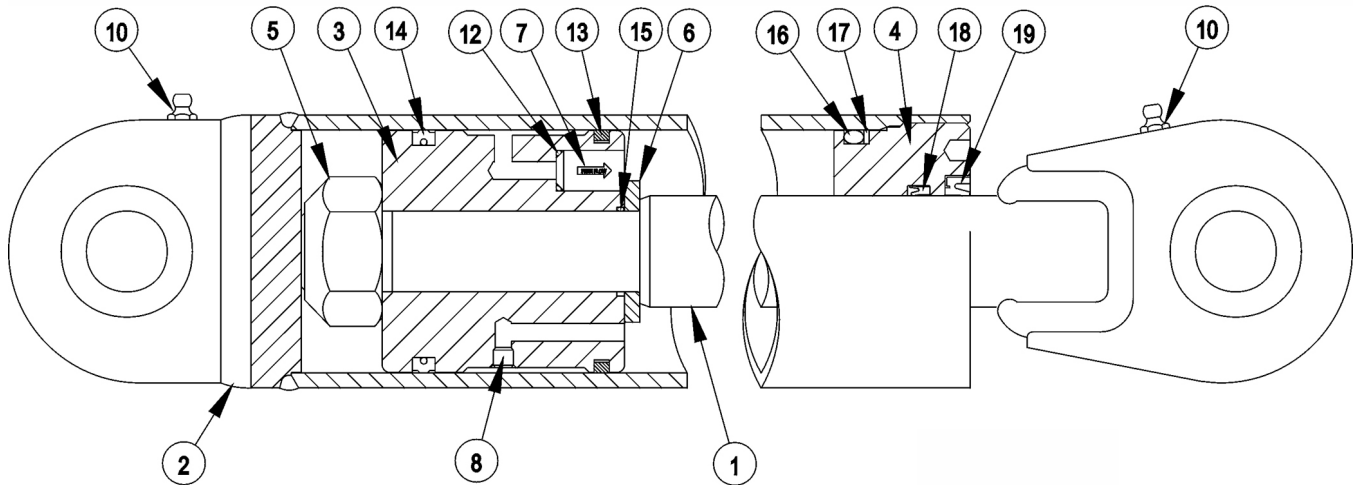
SABER XB & 60IN SPINDLE ASSY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
---	6T1024H5	-	SPINDLE ASSEMBLY
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	PT1018H-5	1	SPINDLE
17	06503064	1	O-RING PLUG,1/8"
---	31771	1	SPINDLE REBUILD KIT (ITEMS 2 THRU 8 & 12 THRU 15)

COMMON SABER

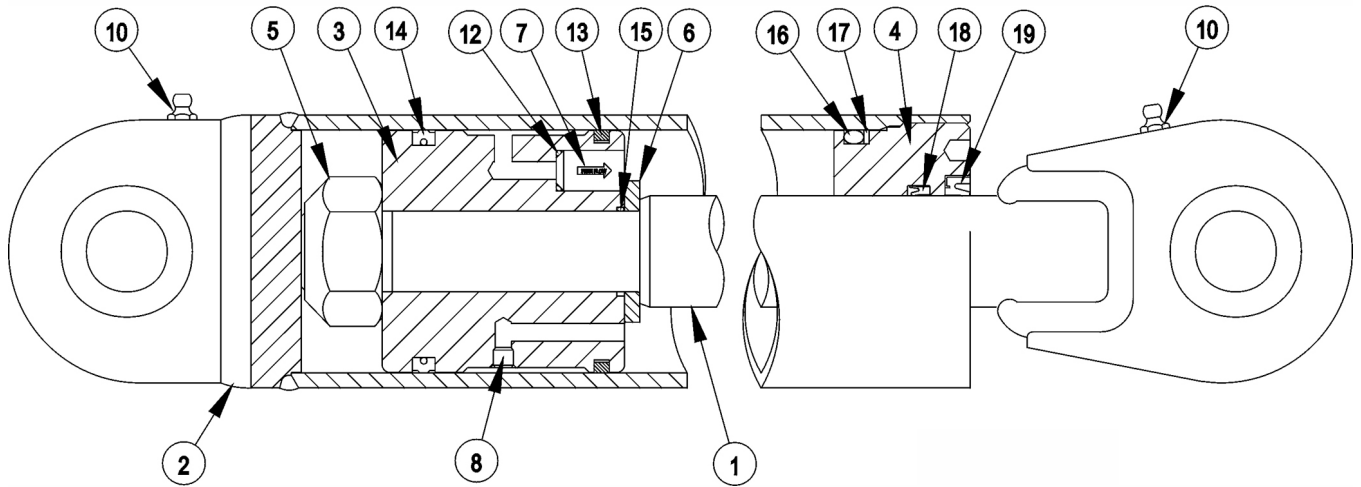
3IN X 17-1/2IN WELDED CYLINDER BREAKDOWN



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

ITEM	PART NO.	QTY.	DESCRIPTION
---	33705	-	CYLINDER,WELDED,3" X 17-1/2"
1	34571	1	PISTON ROD ASSY
2	34572	1	BUTT & TUBE ASSY
3	34573	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	34578	1	ORIFICE
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)

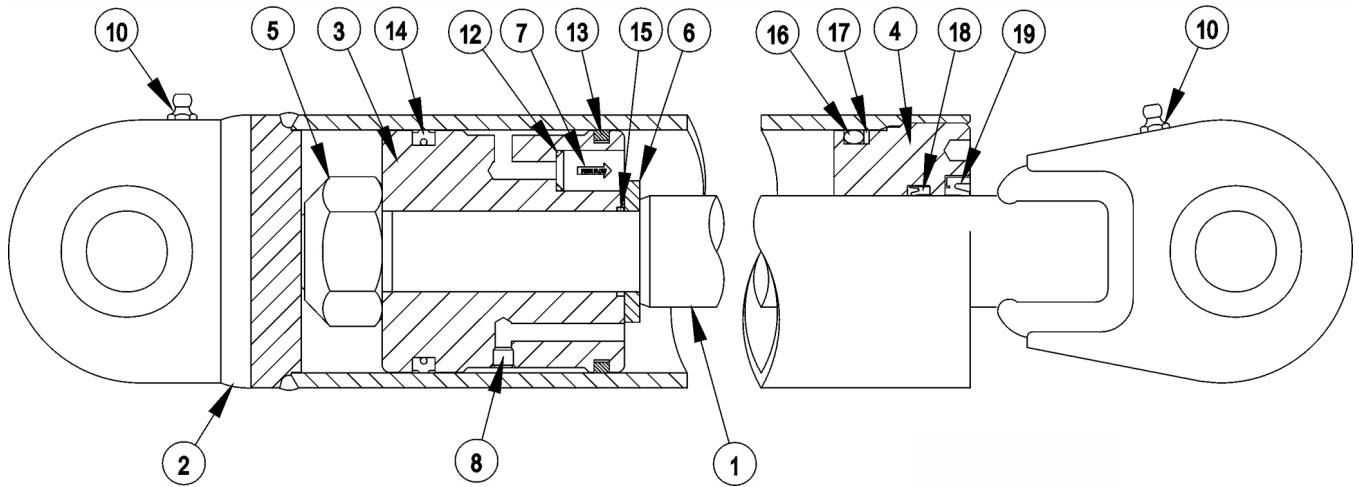
4IN X 15IN WELDED CYLINDER BREAKDOWN



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

ITEM	PART NO.	QTY.	DESCRIPTION
---	32365	-	CYLINDER,WELDED,4" X 15"
1	34580	1	PISTON ROD ASSY
2	34581	1	BUTT & TUBE ASSY
3	34582	1	PISTON
4	34583	1	GLAND
5	34584	1	LOCK NUT,1-1/4"-12 UNF (TORQUE TO 510 FT.LB.)
9	33757	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	34335	-	SPHERICAL BEARING (NOT SHOWN)

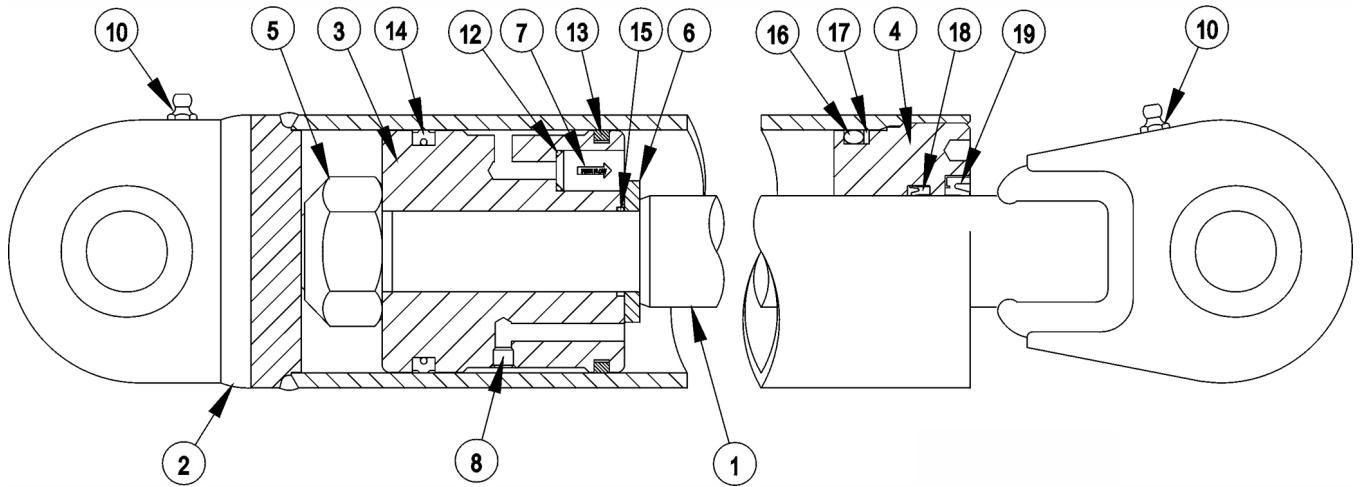
4-1/2IN X 26-1/2IN WELDED CYLINDER BREAKDOWN



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

ITEM	PART NO.	QTY.	DESCRIPTION
---	32364	-	CYLINDER,WELDED,4-1/2" X 26-1/2"
1	34586	1	PISTON ROD ASSY
2	34587	1	BUTT & TUBE ASSY
3	34588	1	PISTON
4	34589	1	GLAND
5	34590	1	LOCK NUT,1-1/4"-12 UNF (TORQUE TO 510 FT.LB.)
9	33758	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	34335	-	SPHERICAL BEARING (NOT SHOWN)

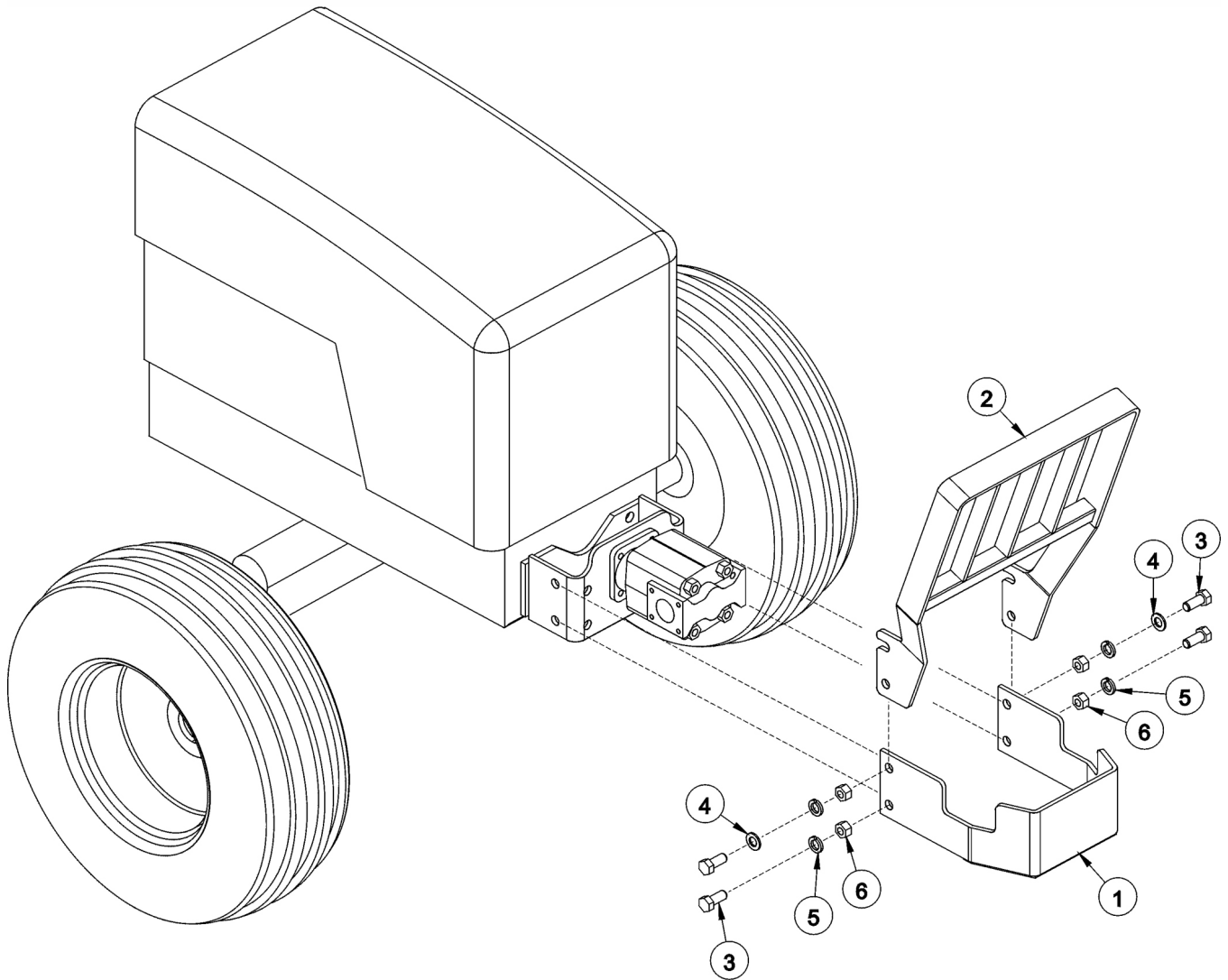
5IN X 25IN WELDED CYLINDER BREAKDOWN



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

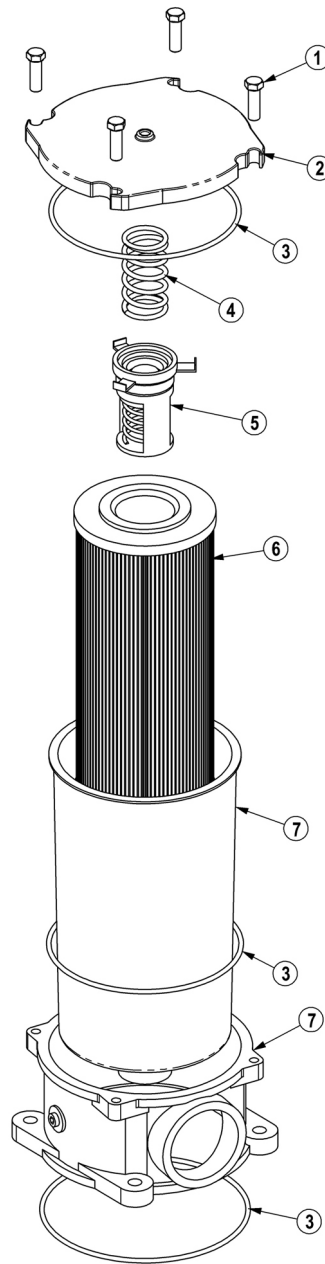
ITEM	PART NO.	QTY.	DESCRIPTION
---	32363	-	CYLINDER,WELDED,5" X 25"
1	34592	1	PISTON ROD ASSY
2	34593	1	BUTT & TUBE ASSY
3	34594	1	PISTON
4	34595	1	GLAND
5	34596	1	LOCK NUT,1-3/4"-12 UNF (TORQUE TO 1800 - 2000 FT.LB.)
7	34597	1	CHECK VALVE,KEPNER
8	34598	1	ORIFICE
9	33759	1	SEAL KIT,PACKING (ITEMS 12 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	34335	-	SPHERICAL BEARING (NOT SHOWN)

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

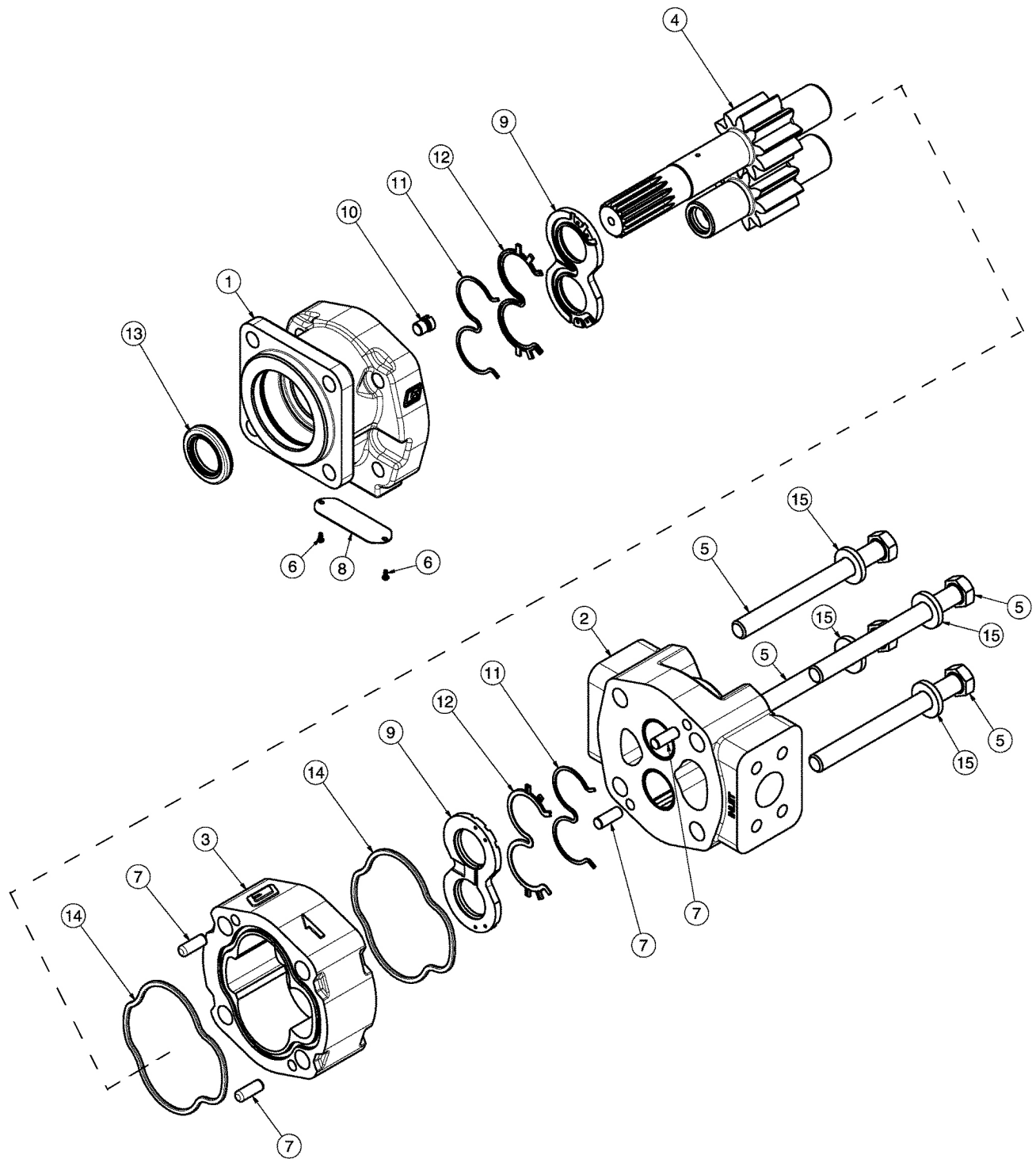
RESERVOIR TANK FILTER ASSEMBLY



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

COMMON SABER

FRONT HYDRAULIC PUMP

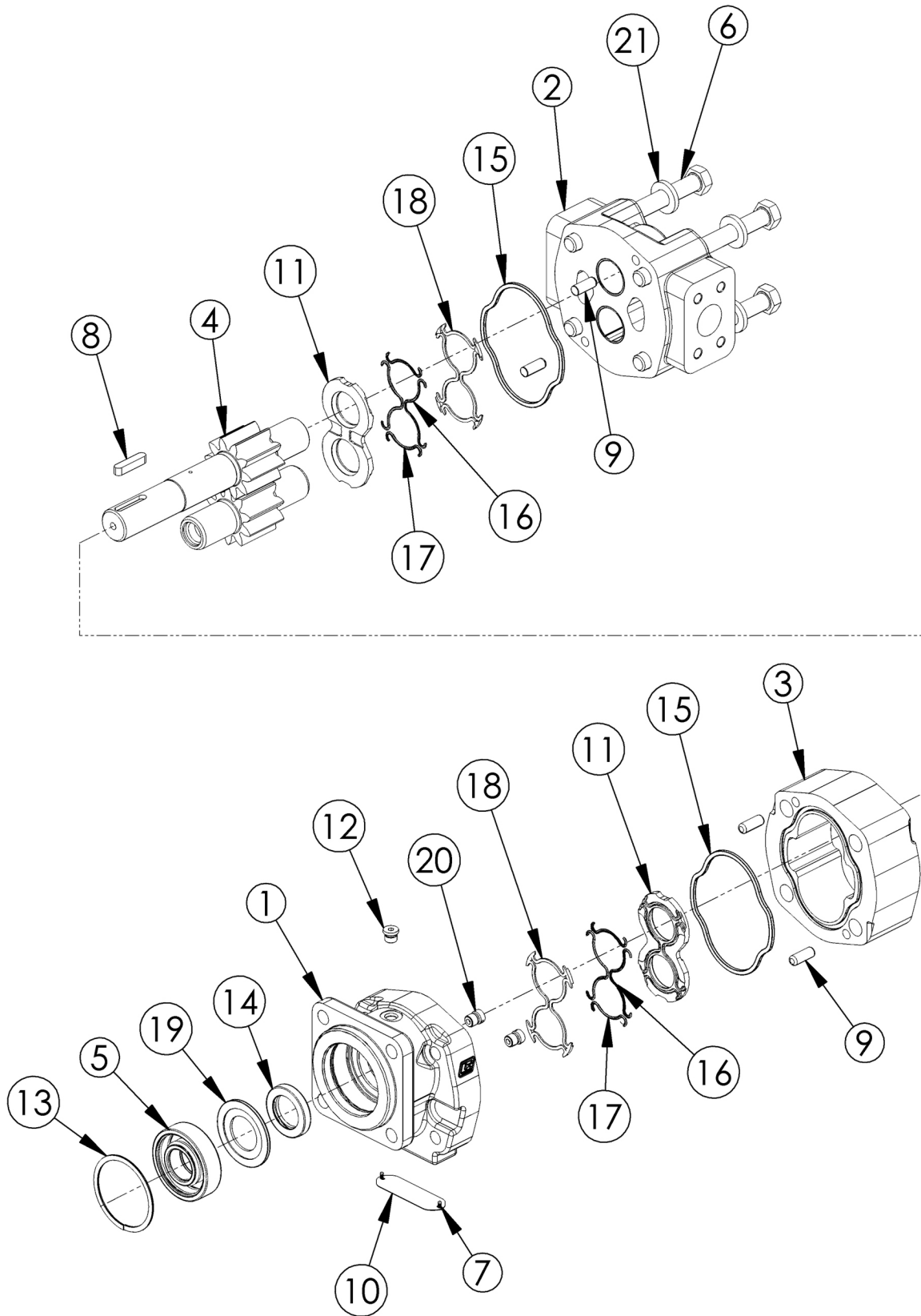


FRONT HYDRAULIC PUMP

Continued...

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 63IN FLAIL MOTOR BREAKDOWN

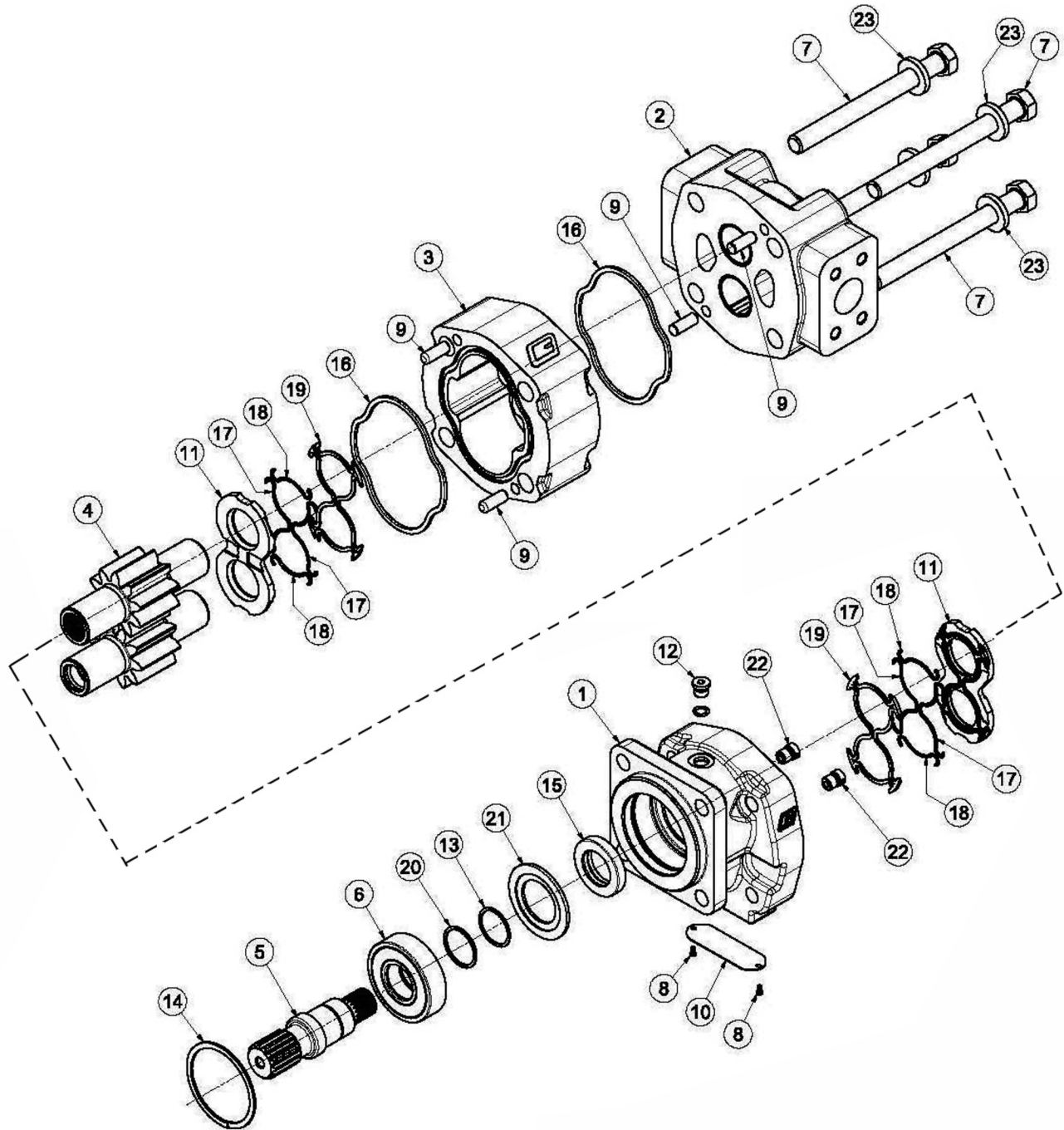


50IN AND 63IN FLAIL MOTOR BREAKDOWN

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
-----	06504013	-	MOTOR ASSEMBLY 350
	06504132	-	MOTOR ASSEMBLY 350
1	06504039	1	SHAFT END COVER
2	06504040	1	PORT END COVER
3	06504041	1	GEAR HOUSING
4	06504042	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	2	THRUSTPLATE
12	02961940	1	HEX PLUG
13	TF4401	1	SNAP RING
14	06504049	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	06504048	1	SEAL RETAINER
20	6T5809	2	CHECK ASSEMBLY
21	02961917	4	WASHER
-----	06504023	-	SEAL KIT (INCLUDES 14, 15, 16, 17, AND 18)

50IN FLAIL DIRECT DRIVE MOTOR BREAKDOWN

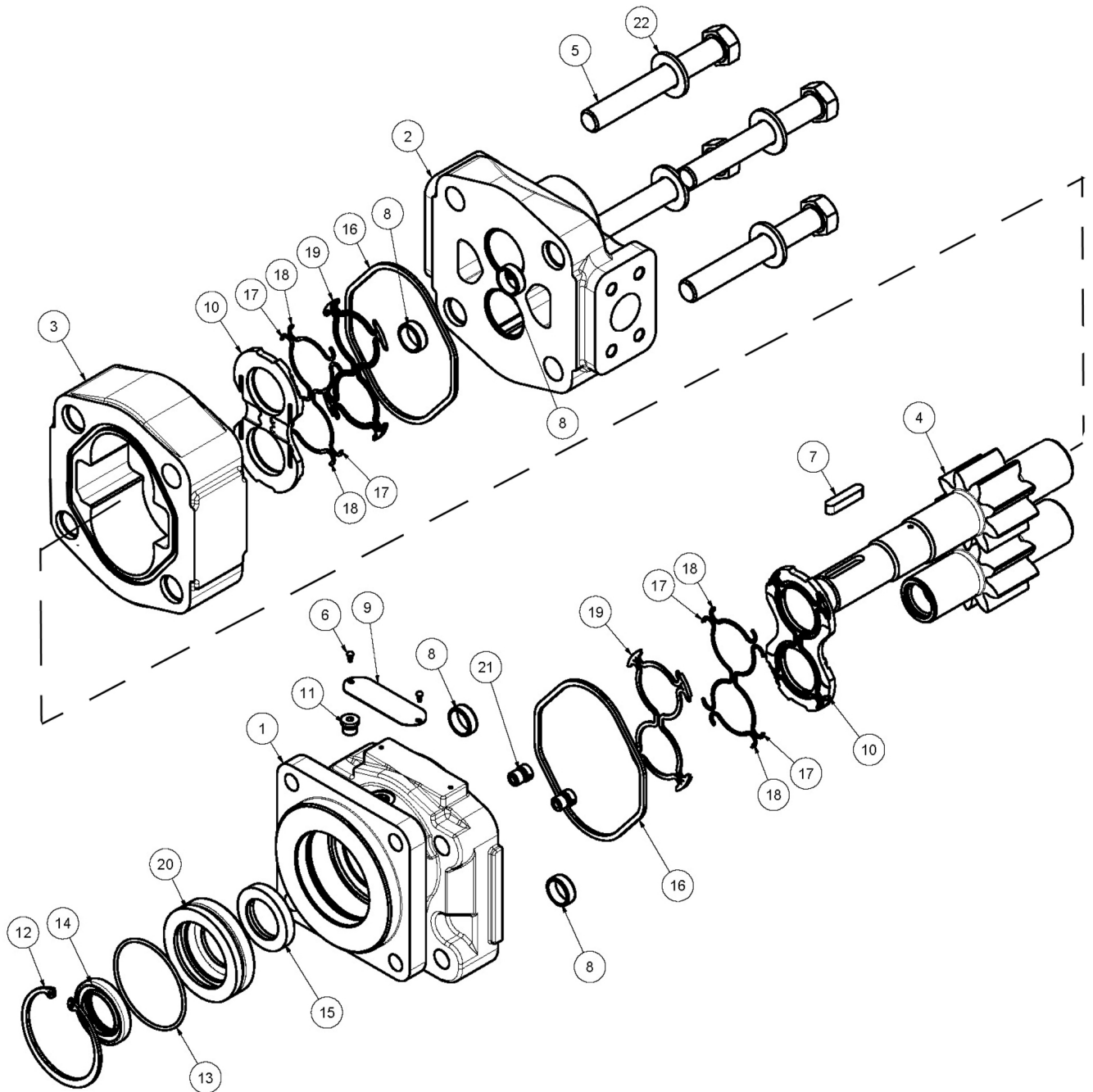


50IN FLAIL DIRECT DRIVE MOTOR BREAKDOWN

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
---	06504003	-	MOTOR ASSEMBLY,DIRECT DRIVE
1	06504039	1	HOUSING,SEC
2	06504040	1	HOUSING,PEC
3	06504041	1	HOUSING,GEAR
4	06504117	1	GEAR,SET
5	06504118	1	SHAFT,CONTINENTAL
6	TF4402	1	BRG,BALL
7	06504043	4	CAPSCREW
8	06504044	2	SCREW,DRIVE
9	06504045	4	PIN,DOWEL
10	06504077	1	NAME PLATE
11	763759	2	THRPL
12	02961940	1	PLUG,ODT
13	06504119	1	RING,SNAP
14	TF4401	1	RING,SNAP
15	06504120	1	SEAL,LIP
16	TF4410	2	SEAL,SQ-R
17	06504046	4	SEAL,SIDE
18	06504047	4	SEAL,END
19	TF4407	2	SEAL,BACK-UP
20	06504121	1	SPACER,BRG
21	06504122	1	RTNR,SEAL
22	6T5809	2	CHECK ASSY
23	02961917	4	WASHER
---	06504116	1	SEAL KIT - ITEMS 14 THRU 19 (NOT SHOWN)

50IN AND 60IN ROTARY MOTOR BREAKDOWN

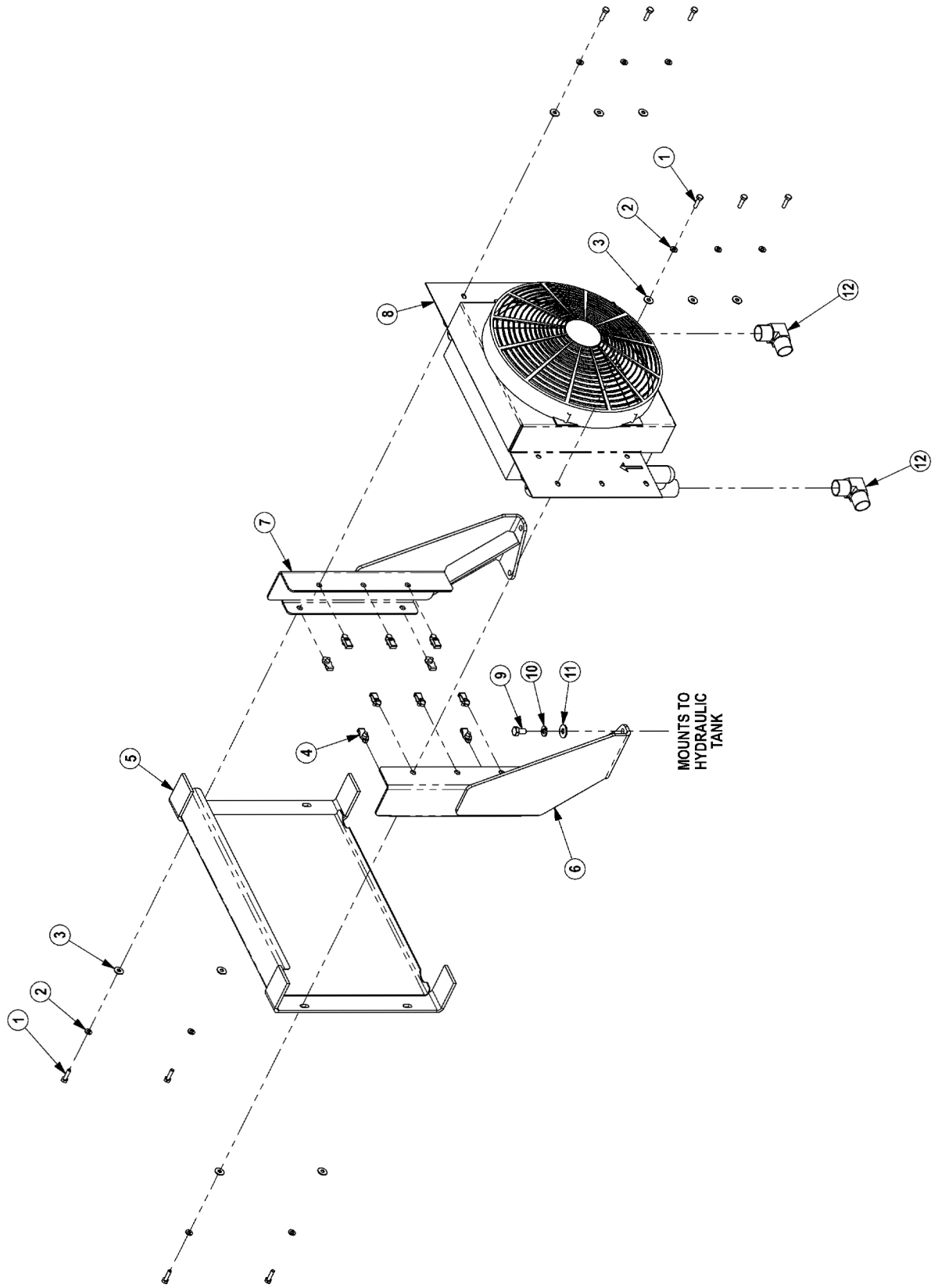


50IN AND 60IN ROTARY MOTOR BREAKDOWN

Continued...

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

COOLER ASSEMBLY



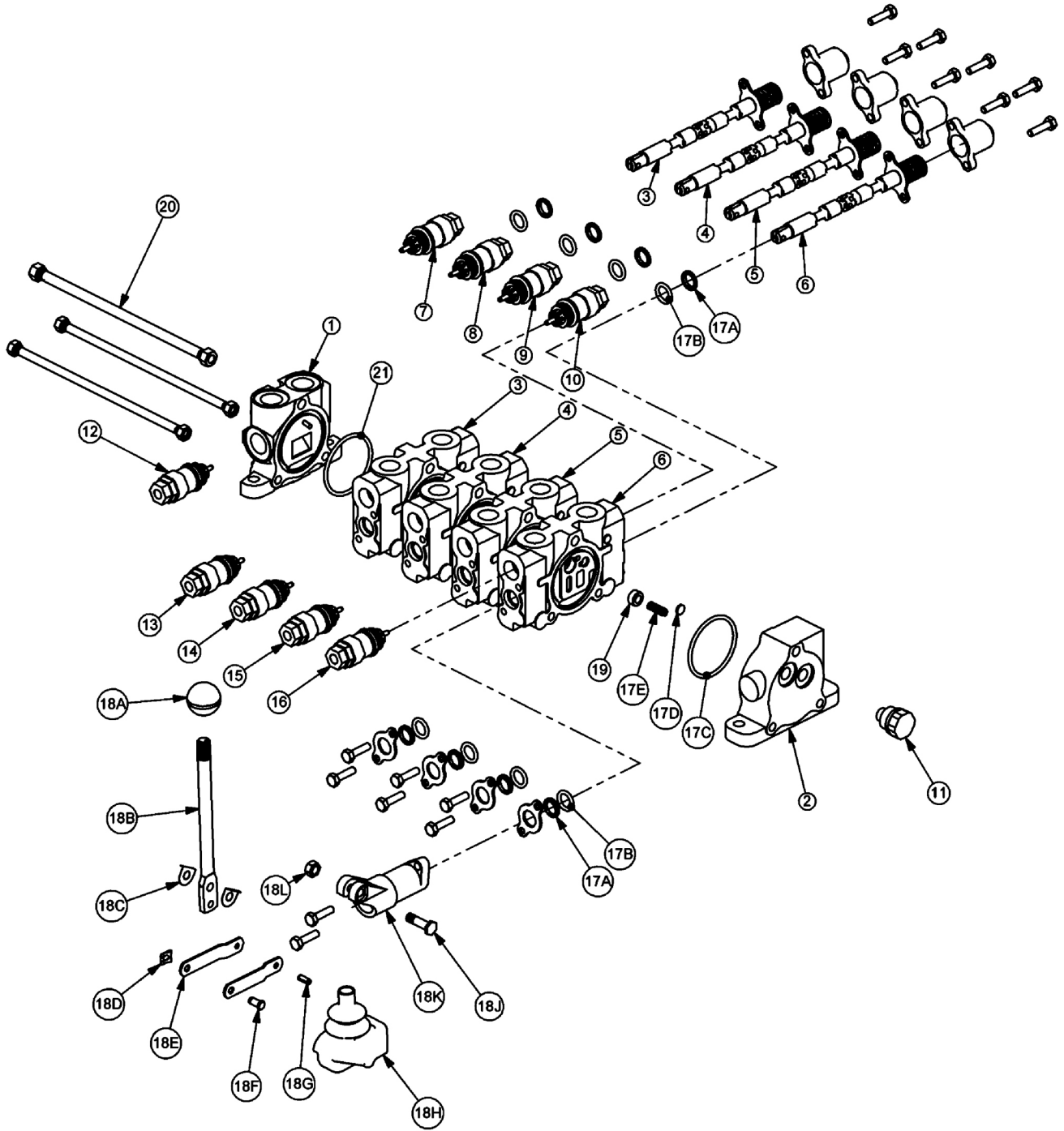
COOLER ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	21530	10	CAPSCREW,1/4 X1 NC
2	21986	10	LOCKWASHER,1/4
3	22014	10	FLATWASHER,1/4
4	35176	10	1/4 U-NUT
5	06370015	1	SCREEN,COOLER,FRNT
6	06380006	1	MNT,COOLER,BUMPER TANK,RH
7	06380007	1	MNT,COOLER,BUMPER TANK,LH
8	06510026	1	COOLER,FRONT MNT
---	06510029	1	FAN ASSEMBLY ONLY
9	21629	4	CAPSCREW,3/8 X 3/4 NC
10	21988	4	LOCKWASHER,3/8
11	22016	4	FLATWASHER,3/8
12	34117	2	ELBOW,1MOR X 1MJ90,FORGED

COMMON SABER

CABLE (MANUAL) LIFT VALVE, 4 SPOOL - 06502104



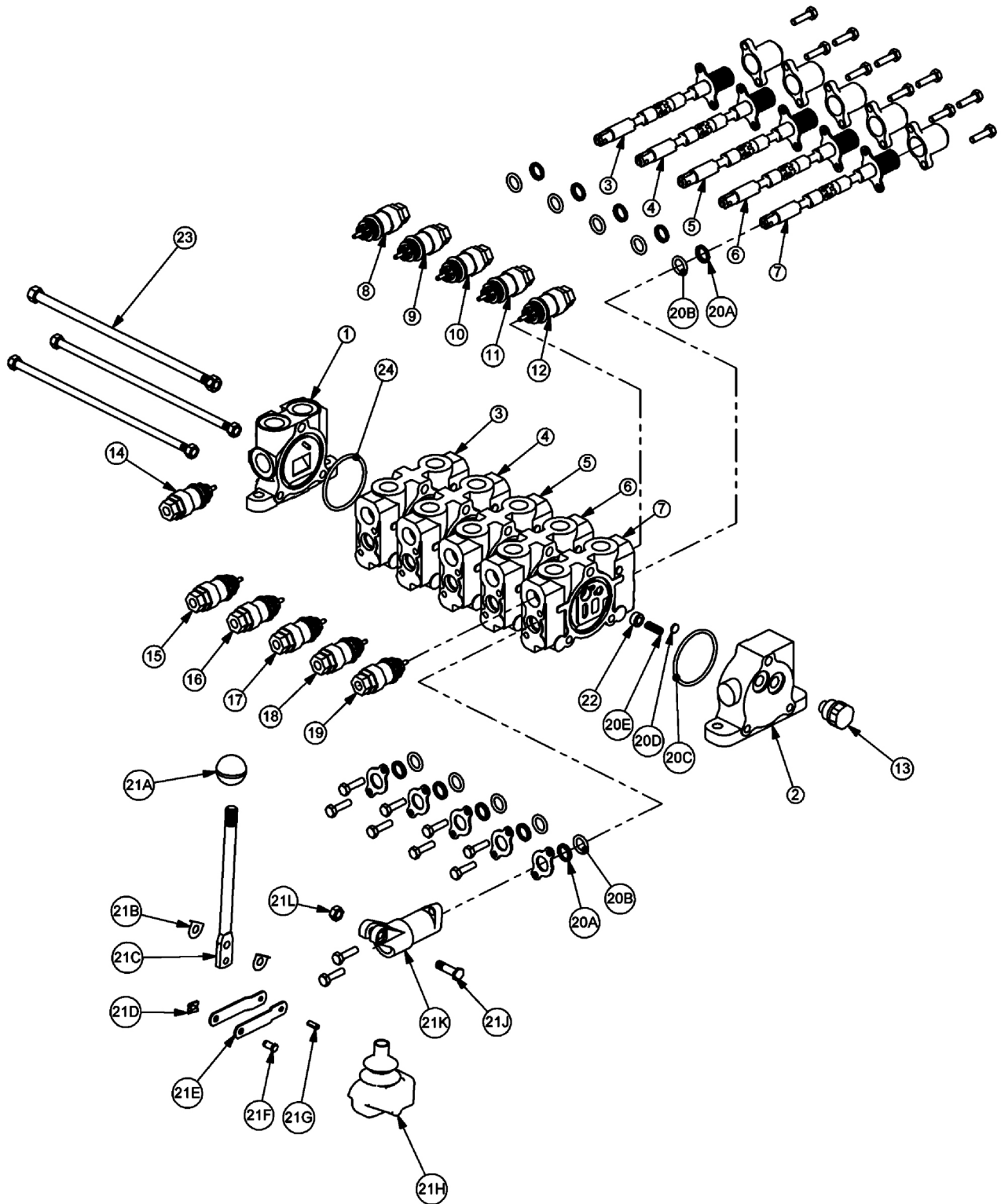
CABLE (MANUAL) LIFT VALVE, 4 SPOOL - 06502104

Continued...

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)
7	06503067	1	#10 O-RING PLUG
8	06502003	1	RELIEF VALVE, 2500 PSI
9	31862	1	RELIEF VALVE, 2175 PSI
10	TB1017H	1	RELIEF VALVE, 1750 PSI
11	06503068	1	#6 O-RING PLUG
12	6T4209	1	#10 O-RING PLUG
13	06502085	1	RELIEF VALVE, 3000 PSI
14	TB1017H	1	RELIEF VALVE, 1750 PSI
15	TB1017H	1	RELIEF VALVE, 1750 PSI
16	TB1017H	1	RELIEF VALVE, 1750 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

COMMON SABER

CABLE (MANUAL) LIFT VALVE, 5 SPOOL - 06502103



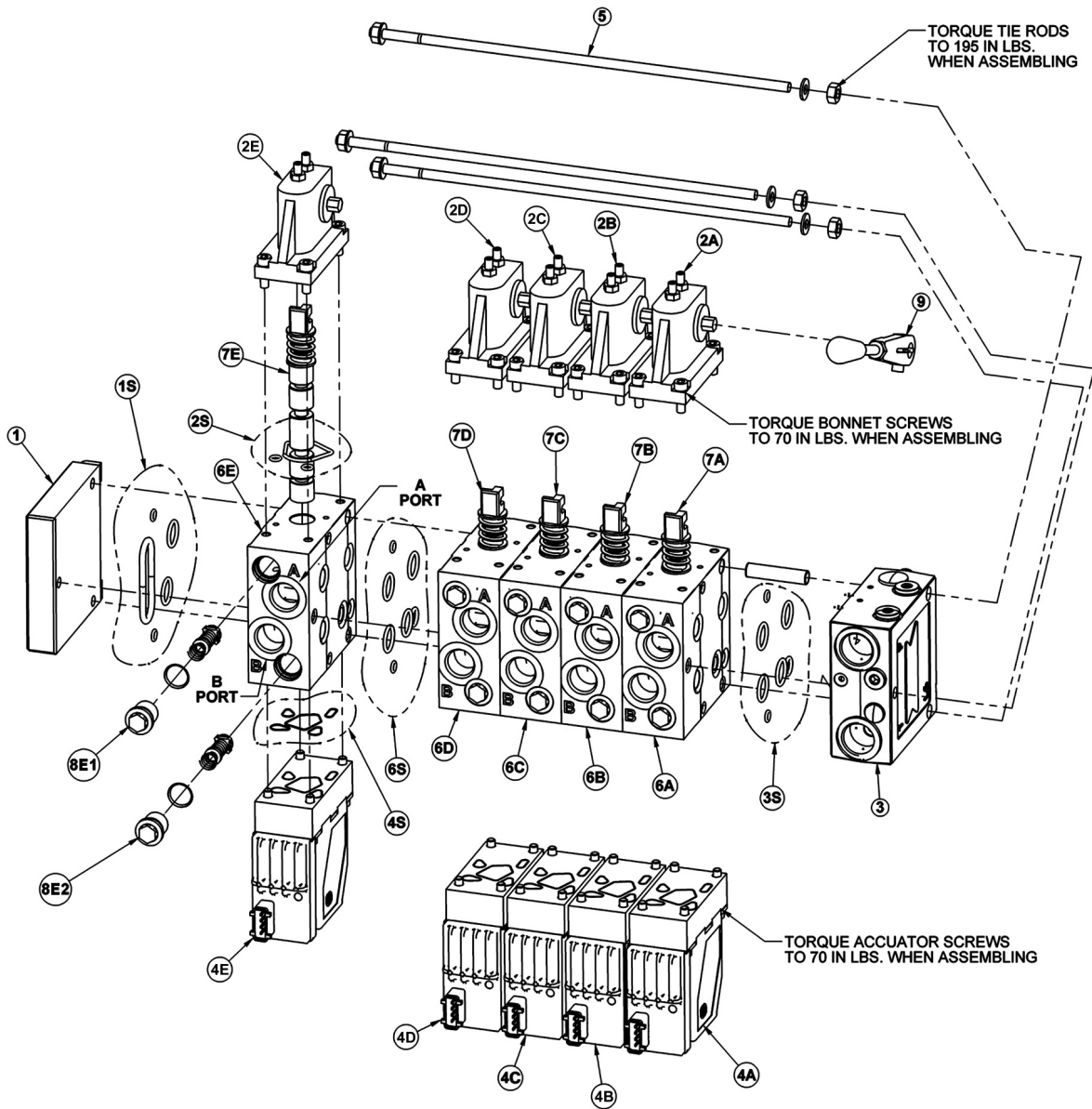
CABLE (MANUAL) LIFT VALVE, 5 SPOOL - 06502103

Continued...

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	06503067	1	RELIEF PLUG, #10 O-RING
9	TB1017K	1	RELIEF VALVE, 2500 PSI
10	TB1017J	1	RELIEF VALVE, 2175 PSI
11	TB1017H	1	RELIEF VALVE, 1750 PSI
12	22588	1	RELIEF VALVE, 500 PSI
13	06503068	1	RELIEF PLUG, #6 O-RING
14	6T4209	1	RELIEF PLUG, #10 O-RING
15	06502085	1	RELIEF VALVE, 3000 PSI
16	TB1017F	1	RELIEF VALVE, 1750 PSI
17	TB1017F	1	RELIEF VALVE, 1750 PSI
18	TB1017H	1	RELIEF VALVE, 1750 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

COMMON SABER

5 SPOOL ELECTRONIC VALVE - 06502096



ITEM	PART NO.	QTY.	DESCRIPTION
-----	06502096	-	VLV,5SP,32PVG,SIDE STOW
1	06502074	1	END PLATE
1S	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

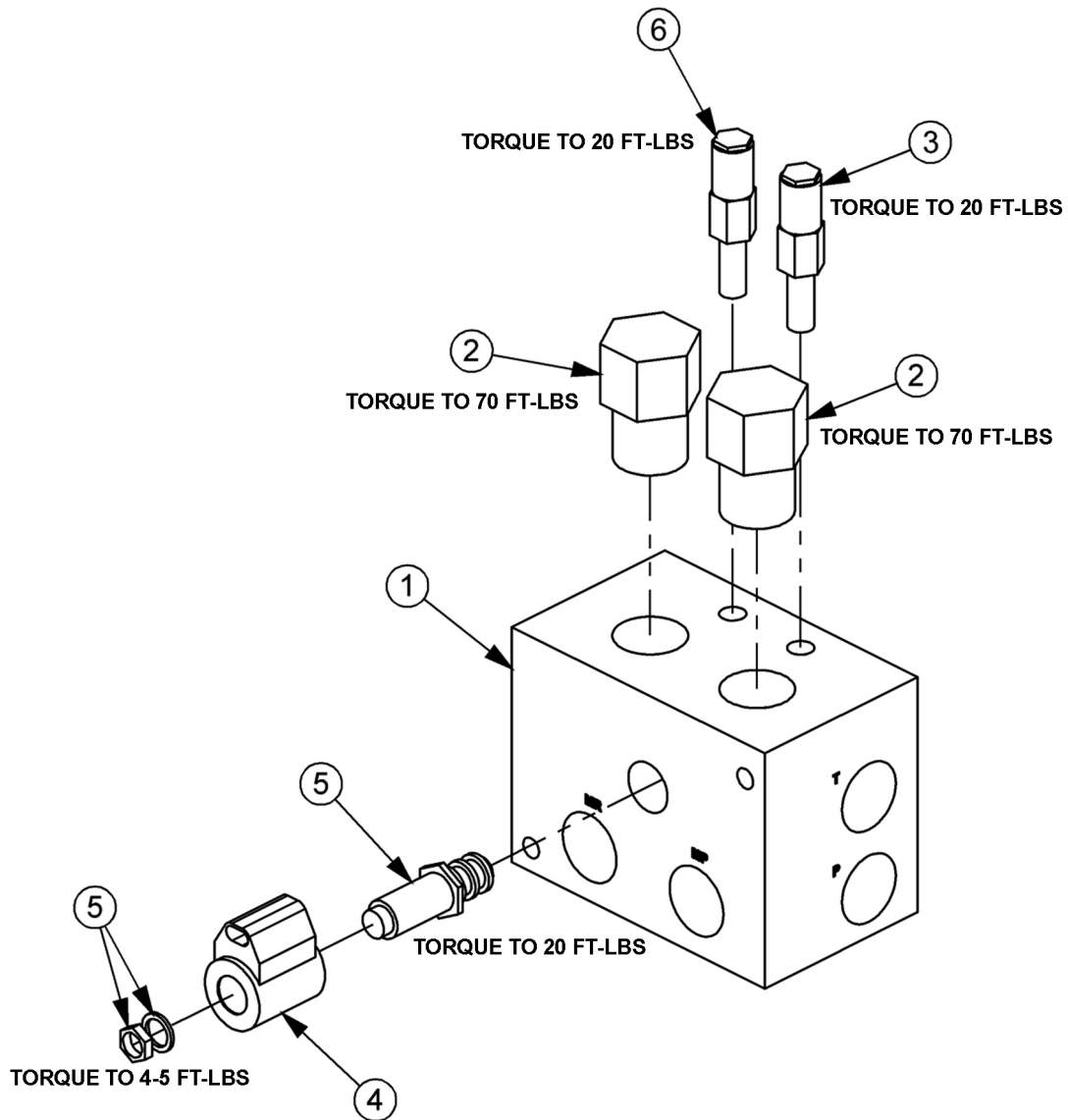
5 SPOOL ELECTRONIC VALVE - 06502096

Continued...

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

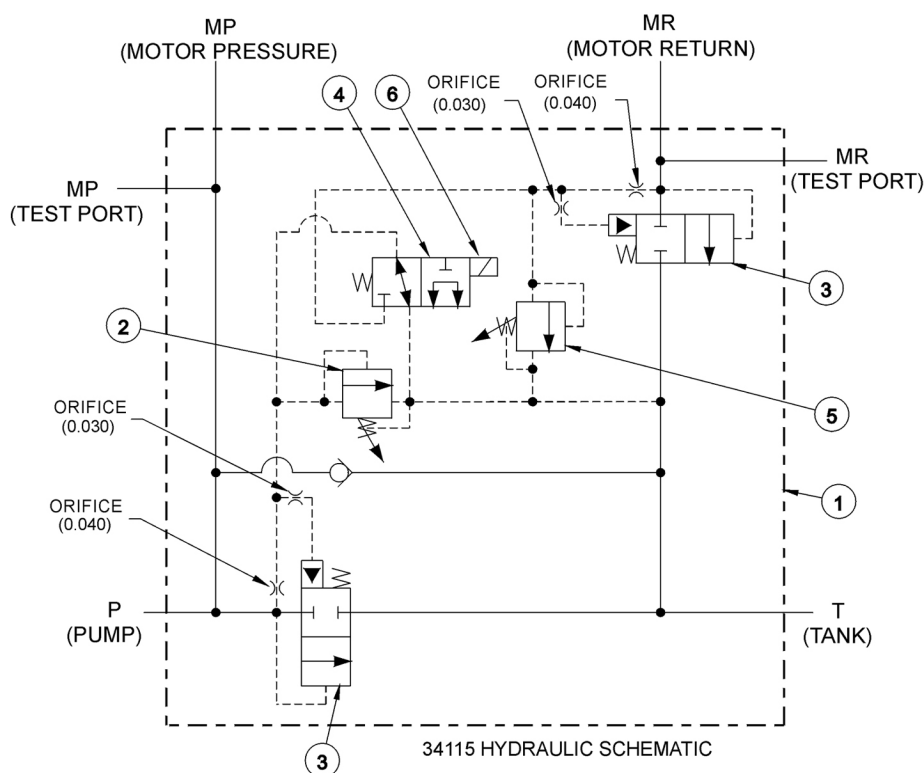
COMMON SABER

BRAKE VALVE ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
---	06510084	1	BRAKE VALVE, ASSY
1	34092	1	BRAKE VALVE, BLANK
2	34094	2	LOGIC ELEMENT
3	34090	1	RELIEF VALVE, 3500 PSI
4	06510095	1	METRI PAK COIL
5	34093	1	CARTRIDGE, 2 POSITION, 3 WAY (WITH NUT & WASHER)
6	34091	1	RELIEF VALVE, 2600 PSI
---	34096	2	RELIEF SEAL KIT
----	34097	1	SOLENOID SEAL KIT
---	34098	2	ELEMENT SEAL KIT

BRAKE VALVE HYDRAULIC SCHEMATIC



BRAKE VALVE TROUBLESHOOTING

FAILURE MODE:

- MOWER WILL NOT START - system pressure is low (engine not lugging).
- MOWER WILL NOT START - system pressure is high (engine lugging). "MR" port will be high pressure.
- MOWER WILL NOT ROTATE AT FULL SPEED - limited power.
- MOWER BLADE WILL NOT STOP - blade will not stop in proper time.

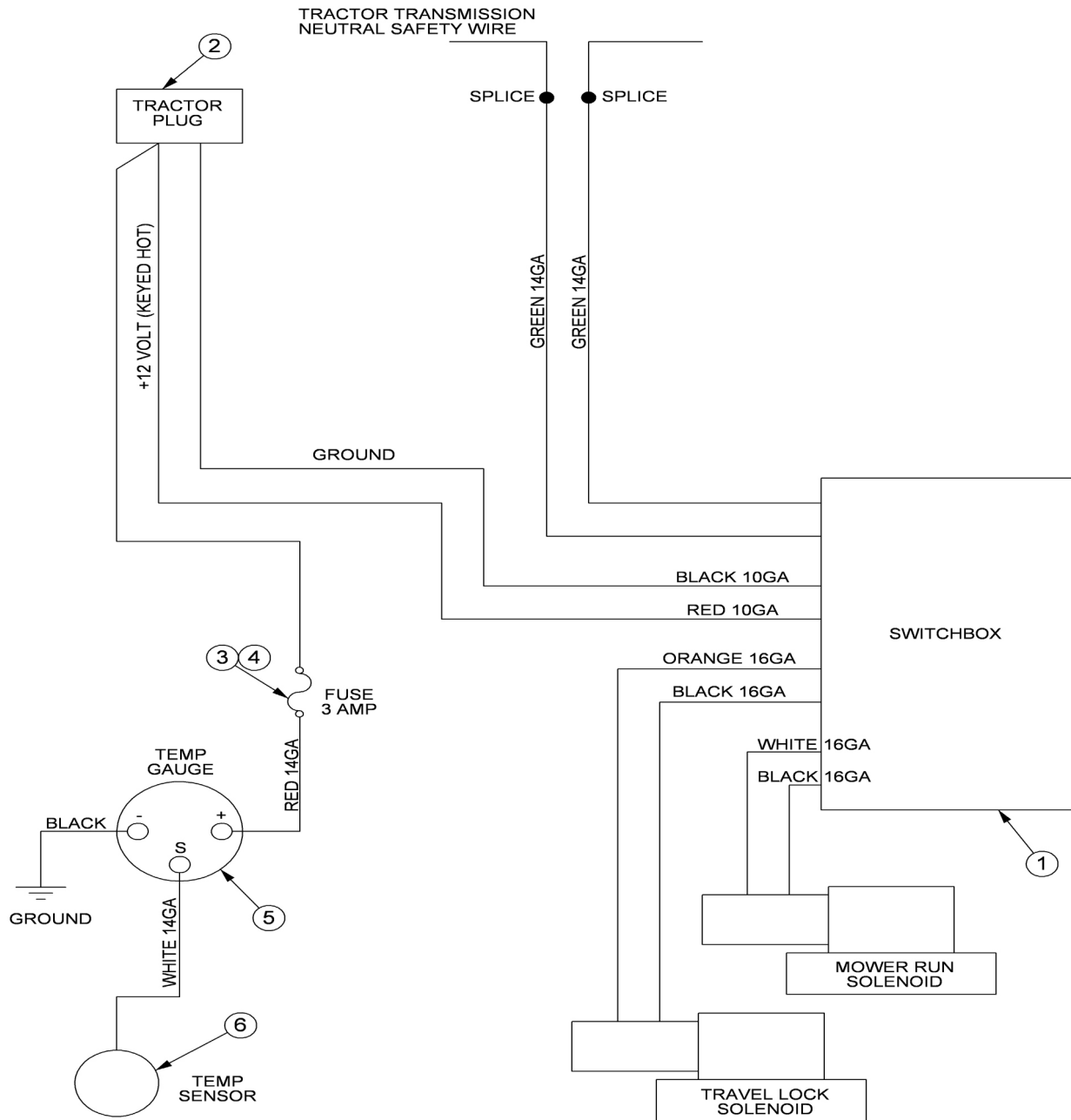
CHECK STEPS

- 1 thru 6
- 7
- 3 thru 5
- 7 thru 9

CORRECTIVE STEPS:

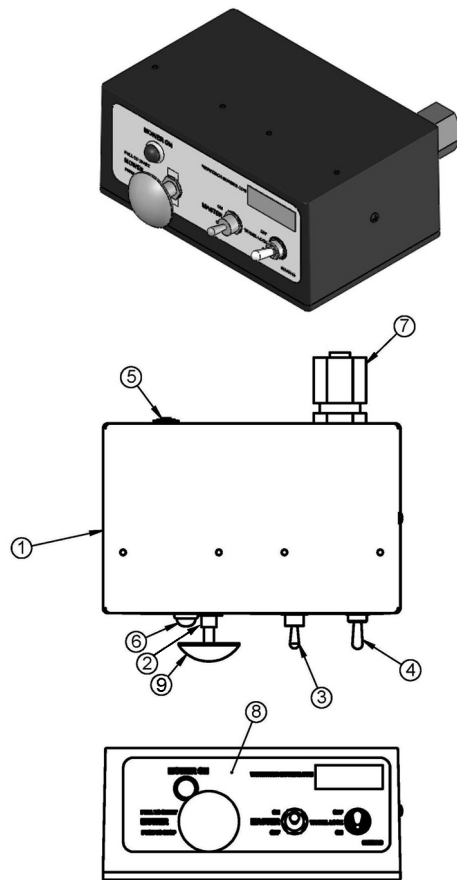
1. Check for voltage at solenoid (item 6), voltage must be between 10.2 volts and 13.8 volts.
2. Remove, inspect solenoid and cartridge (items 4, 6) for wear or contamination.
3. Remove, inspect logic elements near "P" port (item 3) for wear or contamination.
4. Remove, inspect 3000 psi relief valve (item 2) for wear or contamination.
5. Remove and inspect orifices near "P" port for contamination.
6. Remove "P" port hose and fitting, visually inspect for contamination, check ball for movement.
7. Remove and inspect orifices near "MR" port for contamination.
8. Remove, inspect 2600 psi relief valve (item 5) for wear or contamination.
9. Remove, inspect logic element near "MR" port (item 3) for wear or contamination.

SOLENOID SWITCH BOX AND WIRING



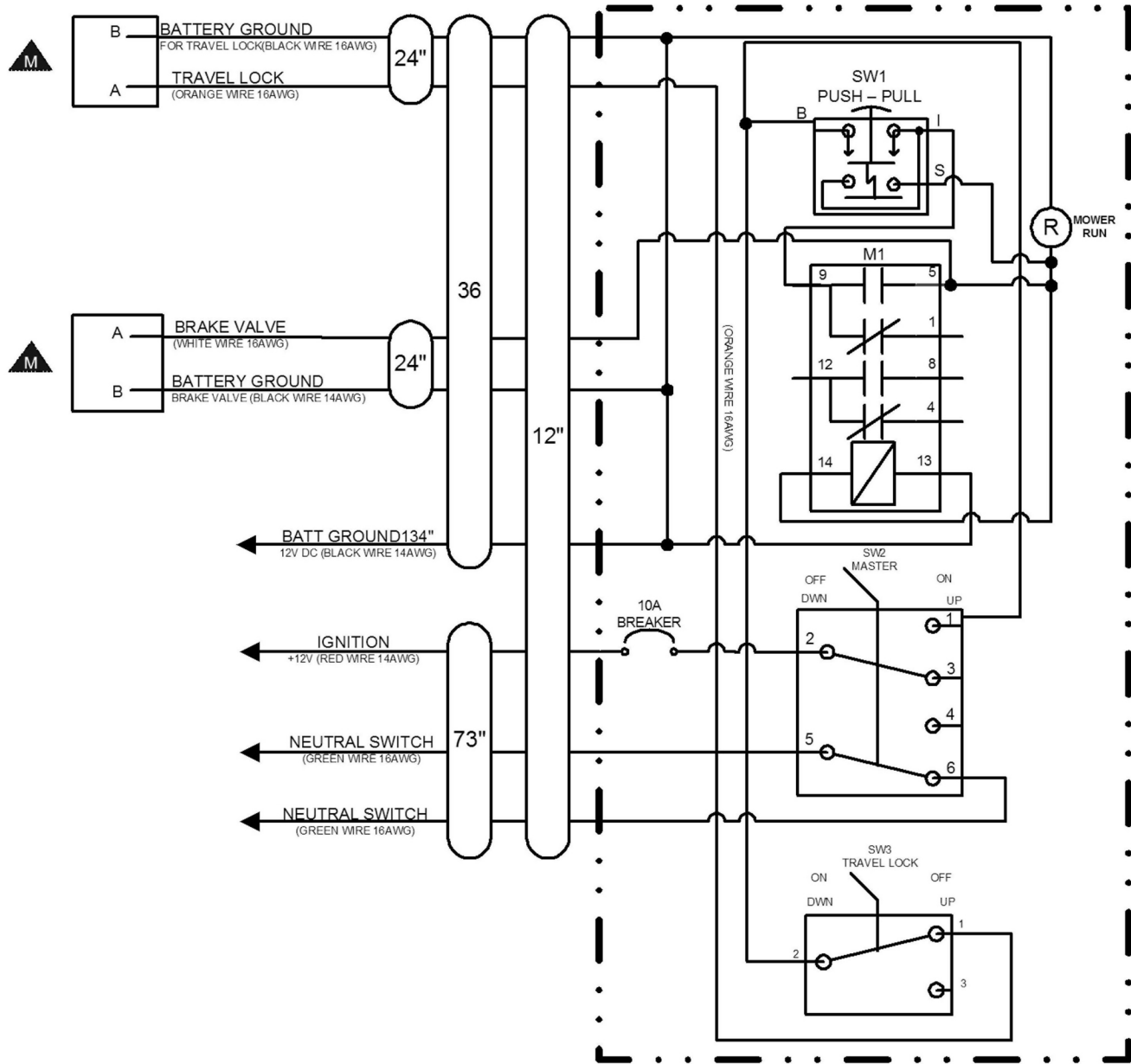
ITEM	PART NO.	QTY.	DESCRIPTION
1	-----	-	SWITCH BOX
2	RE37651	1	PLUG,AUX PWR
3	24204	-	FUSE HOLDER,IN-LINE (OPTION)
4	6T3965	-	FUSE,3AMP (OPTION)
5	6T3934	-	TEMPERATURE GAUGE (OPTION)
6	6T3931	-	TEMPERATURE SENSOR (OPTION)

MANUAL LIFT VALVE SWITCH BOX

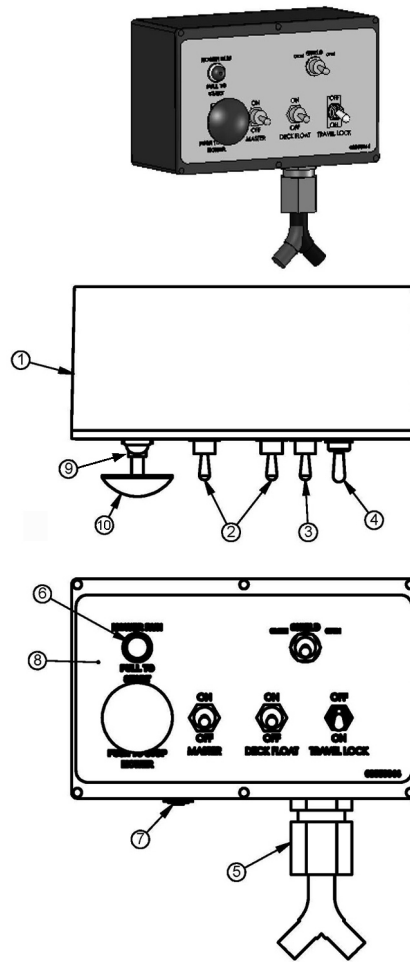


ITEM	PART NO.	QTY.	DESCRIPTION
1	06514012	1	SWBX,ALUM,BLK,06510100
2	35226	1	SWITCH,MOWER,COLEHERSEE
3	33811	1	SWITCH,MASTER/DECK FLOAT
4	34532	1	SWITCH,TRVL LCK
5	06514014	1	BREAKER,10A,SWBX
6	6T3923	1	INDICTATOR LIGHT,ON,RED
7	34540	1	STRAIN RELIEF,3/4,BLACK,NYLON
8	06550019	1	DECAL,SWTCHBX,BOOM,CG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

MANUAL LIFT VALVE SCHEMATIC

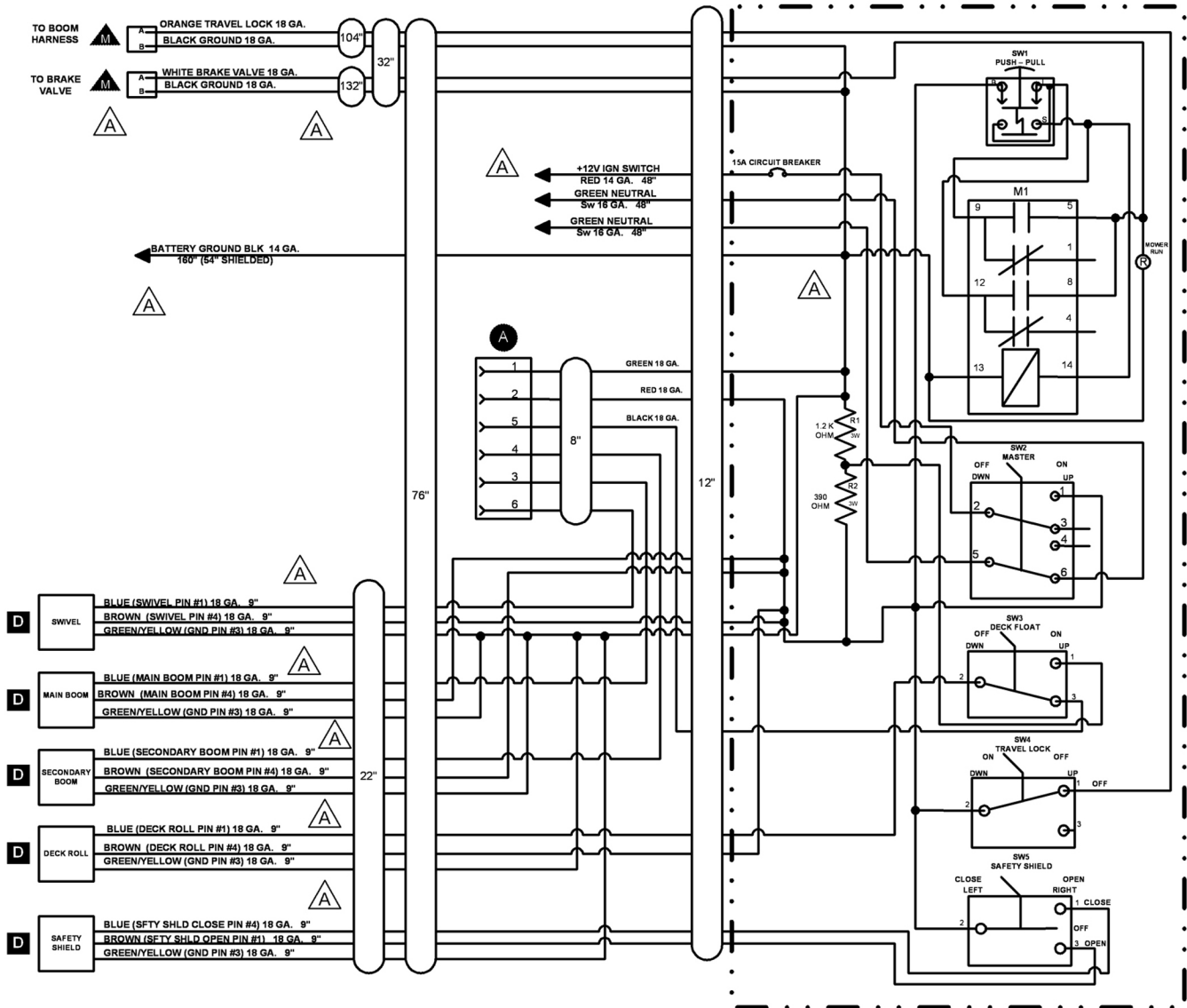


ELECTRONIC LIFT VALVE SWITCH BOX



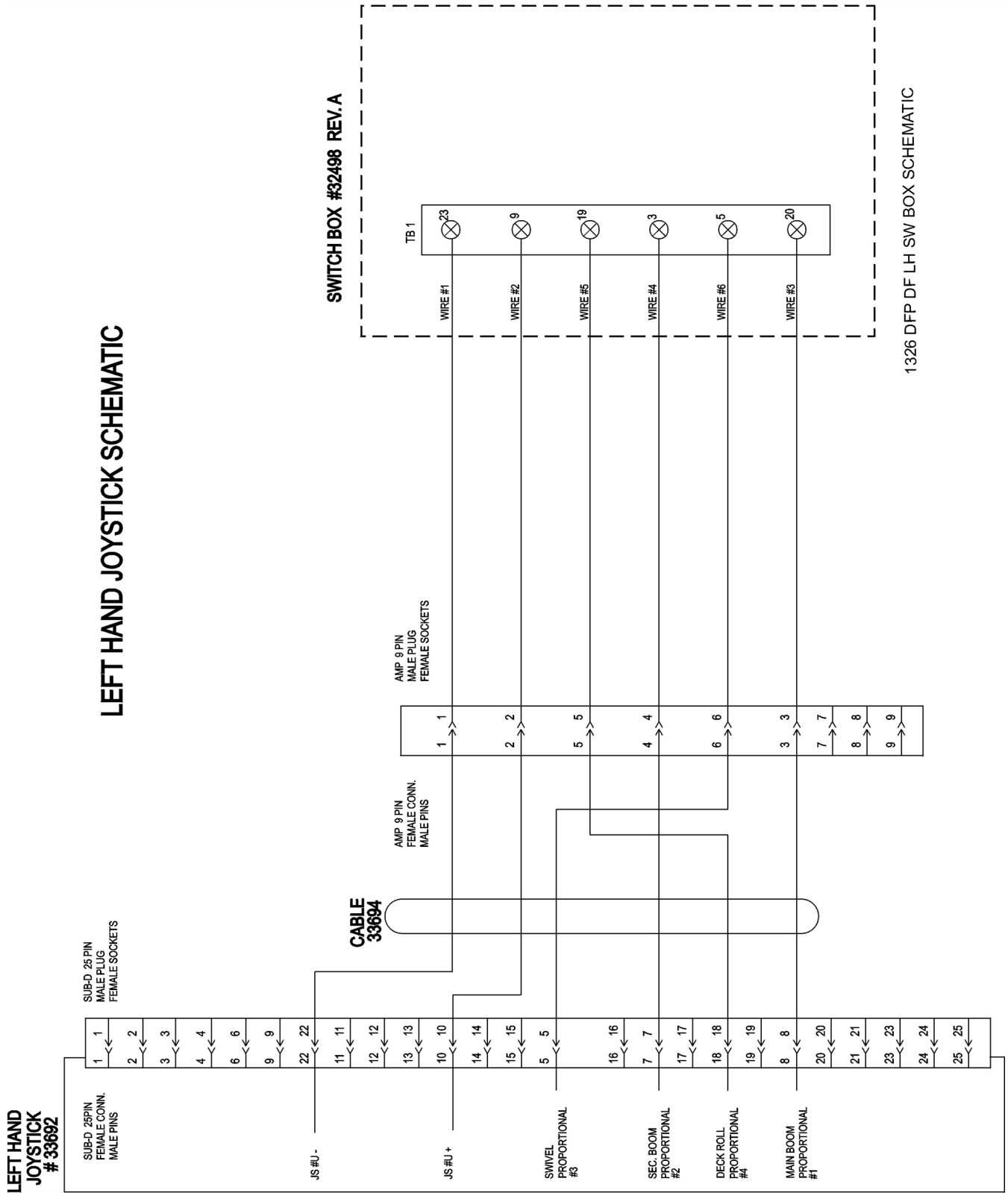
ITEM	PART NO.	QTY.	DESCRIPTION
1	06510196	1	SWBX,ASSY
2	33811	2	SWITCH,MASTER/DECK FLOAT
3	33813	1	SWITCH,SFTY SHIELD
4	34532	1	SWITCH,TRVL LCK
5	34540	1	STRAIN RELIEF,3/4",BLACK,NYLON
6	6T3923	1	INDICTATOR LIGHT,ON,RED
7	06514006	1	BREAKER,15A,SWBX
8	06550044	1	DECAL,SWBX,06510047
9	35226	1	SWITCH,MOWER,COLEHERSEE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

ELECTRONIC LIFT VALVE SCHEMATIC



LEFT HAND JOYSTICK SWITCHBOX SCHEMATIC

LEFT HAND JOYSTICK SCHEMATIC



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 – Supply Voltage
Pin #2 – Signal Voltage
Pin #gnd – 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 – Supply Voltage
Pin #2 – Signal Voltage
Pin #gnd – 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 #2 should be equal to supply voltage when switch is operated in B direction.

Pin #1 – Signal Voltage
Pin #2 – Signal Voltage
Pin #gnd – 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 switch box).

Shorted to positive, ground, or other.

Incorrect voltage signal from joystick.

Continued on next sheet

TROUBLESHOOTING - CONTINUED

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.

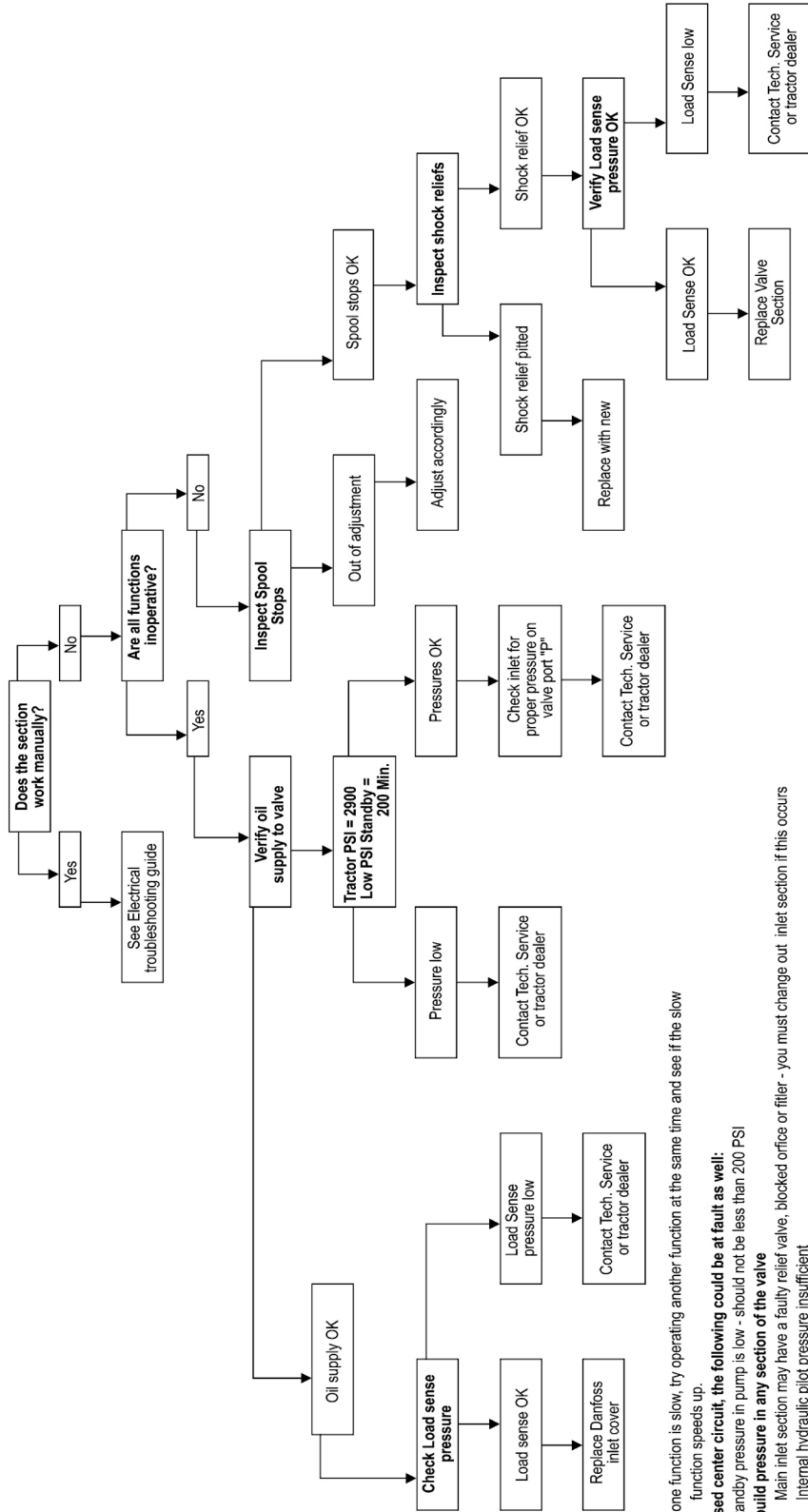
Cylinder leak.

LS signal leaking to tank before reaching pump LS port.

Hydraulic system or pump not supplying flow to valve.

HYDRAULIC TROUBLESHOOTING GUIDE

Hydraulic Troubleshooting guide



Notes: If one function is slow, try operating another function at the same time and see if the slow function speeds up.

On a closed center circuit, the following could be at fault as well:

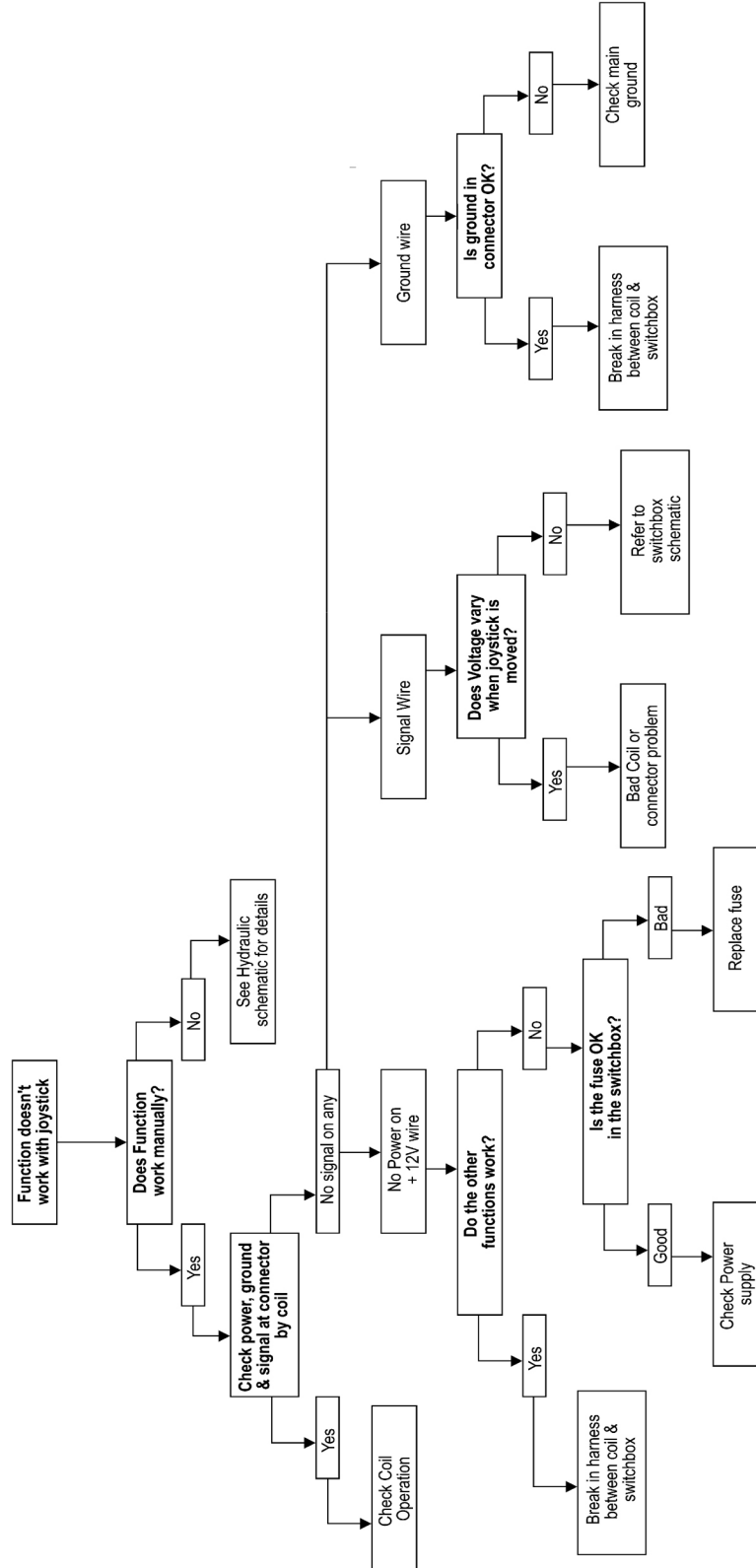
Tractor standby pressure in pump is low - should not be less than 200 PSI

Cannot build pressure in any section of the valve

Main inlet section may have a faulty relief valve, blocked orifice or filter - you must change out inlet section if this occurs
Internal hydraulic pilot pressure insufficient

ELECTRICAL TROUBLESHOOTING GUIDE

Joystick Electrical Troubleshooting guide



NOTES

CLEAN CUTTER HEAD

**CLEAN CUTTER
SECTION**

CLEAN CUTTER ASSEMBLY

CAUTION!



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

CAUTION!



WARNING: The blade alone weighs approximately 145 lbs. Be sure its weight can be supported before attempting to replace. The use of a lift mechanism will ease replacement.

CLEAN CUTTER BLADE MOUNTING

The CLEAN CUTTER blade was designed for installation onto a standard SABER spindle. It is equipped with replaceable carbide tipped teeth. Carbide is very hard, it will chip or break on impact. Handle the saw blade with care. **DO NOT** roll saw on any hard surface or allow it to strike a hard object. Set it down on a piece of belting or wood to avoid damaging carbide tips. Install two temporary(2) threaded studs into (2) opposite holes in the spindle. Align the bolt holes in adapter (part number 34767) with the studs and slide adapter over studs, be sure to index adapter so as the protruding 2 7/8" diameter pilot on the adapter faces outward away from spindle. Then slide the saw blade (part number 33874) over the studs and onto the 2 7/8" diameter pilot of the adapter. **NOTE:** Orient blade for clockwise rotation (blade rotates clockwise when looking down on top of mower deck). Then slide the collar (part number 34768) over the studs with the chamfered edge of collar to the outside, be sure the counterbore bolt holes face outward. Apply Loctite "271" to the threads of the 3/4-16 x 3 1/4" UNF Grade 8 bolts (part number 34769), and install lock washers (part number 21993) onto the bolts, then install bolts through collar, blade, and adapter into the spindle. Remove the threaded studs, and replace with bolts and lockwashers. Torque bolts in an alternating pattern to 298 Ft-lbs.

DANGER!



Never work under the Implement, the framework, or any lifted component unless the Implement is securely supported or blocked up to prevent sudden or inadvertent falling which could cause serious injury or even death. (89-14)



CLEAN CUTTER OPERATION

DANGER!



Never operate the Tractor or Implement until you have read and completely understand this Manual, the Tractor Operator's Manual, and each of the Safety Messages found in the Manual or on the Tractor and Implement. Learn how to stop the tractor engine suddenly in an emergency. Never allow inexperienced or untrained personnel to operate the Tractor and Implement without supervision. Make sure the operator has fully read and understood the manuals prior to operation. (S3-4)



OPERATING INSTRUCTIONS

Inspect clean cutter saw before each use. Re-torque spindle bolts to 331 Ft-lbs. Inspect blade around collar and near the teeth for bends and cracks. Check for loose, broken, chipped, dull or missing teeth. Tighten all loose teeth by hammering and or replacing rivets. If teeth are broken, chipped, or missing or if blade is cracked or becomes bent remove blade and have it repaired at an approved service center. Call Tiger Service Department for replacement parts and service.

The SABER Clean Cutter is intended for clean cutting trees and brush up to eight (8) inches in diameter maximum. Turn mower "ON" while tractor is running at idle RPM. Then increase tractor speed to 1,950 RPM maximum. Note, this tractor engine speed produces a mower speed of 1,500 RPM. **DO NOT operate the clean cutter mower at speeds in excess of 1,500 RPM.** If saw blade wobbles in excess of two (2) inches while tractor is idling, **STOP**, remove the blade and have it repaired at an approved service center. Call Tiger Service Department for replacement parts and service.

Allow saw to accelerate to maximum speed before moving into foliage. Advance mower head smoothly in foliage. Allow saw to cut through material, do not force or over feed. If saw slows excessively, move the head out of the foliage, and allow the saw to achieve maximum speed. **DO NOT** move up or down or roll mower head while cutting through heavy foliage. **DO NOT** use clean cutter mower on the ground. The saw blade is equipped with carbide tips, which are very hard. Striking rocks, steel, concrete, or other similar debris will break these tips.

Badly worn teeth increase stress to the saw blade and require more horsepower to cut than sharp teeth. Set-up a scheduled maintenance program for the saw before the teeth are dull. The saw will last longer, produce a better cut, cut large diameter foliage without binding, and will cost less to operate.

Check adapter and collar every time saw is changed, maintain the .004 inch taper on face (surface against the saw blade) of these two (2) items. Always clean adapter and collar before mounting the blade. If adapter or collars are worn or damaged, they must be replaced.

Familiarize yourself with the machine's operation and correct operating safety precautions.

CLEAN CUTTER OPERATION - CONTINUED

WARNING!



Excessive wobble will generate heat in the blade, rapidly accelerating the loss of tension. The overheated blade will then rub against the foliage as it is cutting, again increasing the heat in the blade and intensifying the wobble. The blade may then weaken, crack and eventually fail. **NEVER RUN A BLADE THAT IS CRACKED OR BENT.**

DANGER!



Always keep a careful lookout and use extreme care when working around overhead obstructions. Never allow the Mower head or boom within 10 feet of any power line. When working close to overhead power lines consult your electric company for a safe code of operation.

(SBM-7)



WARNING!



Do not put hands or feet under mower decks. Blade Contact can result in serious injury or even death. Stay away until all motion has stopped and the decks are securely blocked up. (SBM-9)



DANGER!



Never operate the Tractor and Mower Unit without an OPS (Operators Protective Structure) or Cab to prevent injury from objects thrown from ground or from overhead trimming. Stop mowing if workers or passersby are within 100 yards. (SBM-9)



WARNING!



CAUTION: Never leave the key in the ignition switch. Also personal injury or death can occur from sudden dropping or inadvertent operation of the controls. Make certain the area is clear before lowering or raising the deck.

CLEAN CUTTER MAINTENANCE

MAINTENANCE INSTRUCTIONS

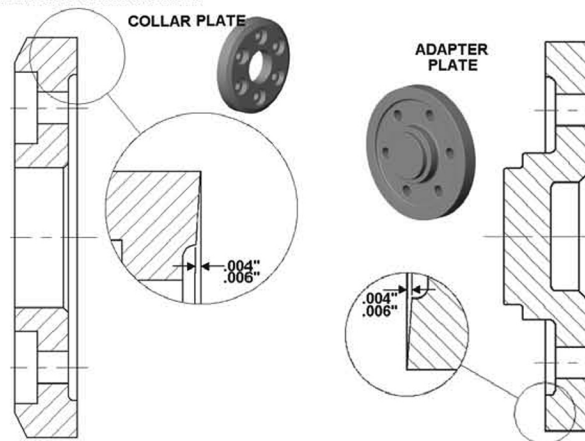
Inspect clean cutter saw before each use. Re-torque spindle bolts in an alternating pattern to 331 ft-lbs. Check for loose, broken, chipped, dull or missing teeth. Tighten all loose tooth assemblies by hammer and or replacing rivets. If teeth tips are broken, chipped, or missing, replace tip or replace entire tooth assembly. **NEVER RUN SAW BLADE WITH MISSING TOOTH ASSEMBLY.** If saw blade is cracked, becomes bent or wobbles in excess of two (2) inches while the tractor is idling, **STOP**, remove blade and have it repaired at an approved service center. Call Tiger Service Department for replacement parts and service.

These saw blades are pre-tensioned after the tooth assemblies are riveted in place. This pre-tensioning ensures that the blade runs true and remains true under normal cutting load. Removal of more than one or two complete tooth assemblies at a time may effect the tensioning of the blade. Before cutting always check for wobble while machine is running at idle. If blade wobbles in excess of two (2) inches, **STOP**, remove blade and have it repaired at an approved service center. The teeth tips can be replaced without removing the tooth bodies from the saw blade (see TIP REPLACEMENT PROCEDURE). This method is preferred over the entire removal of tooth assemblies.

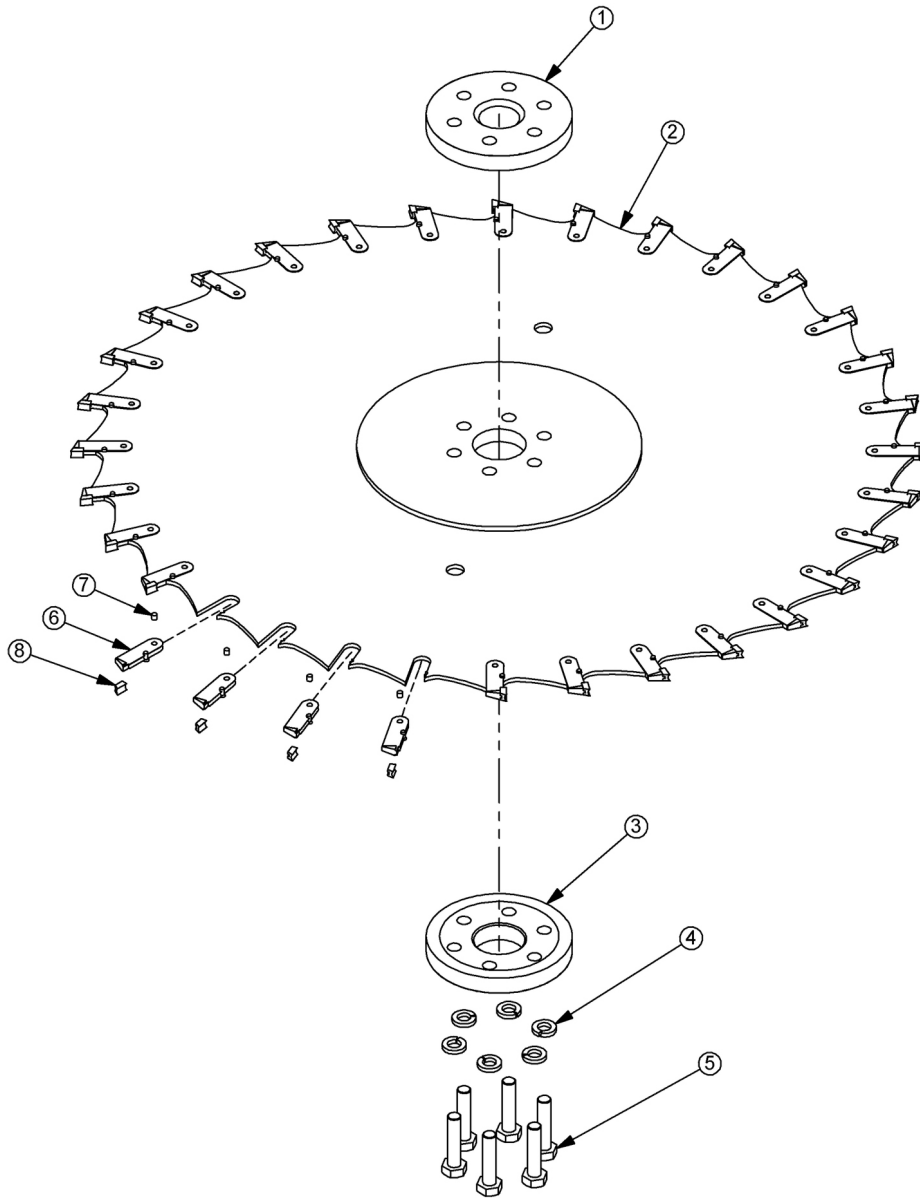
Check adapter and collar every time saw is changed, maintain the .004 to .006 inch taper (see figure below) on inside face (surface against saw blade) of these two (2) items. Always clean inside face of adapter and collar before mounting the blade. If adapter or collars are worn, chipped, or damaged, they must be replaced.

Any saw blade (regardless of condition) that has seen regular use should be serviced at least once a year at an approved service center.

Spare saw blades should be stored in a dry environment and transported only on the wooden crates that are supplied with the saw blade.



CLEAN CUTTER BLADE AND TEETH PARTS

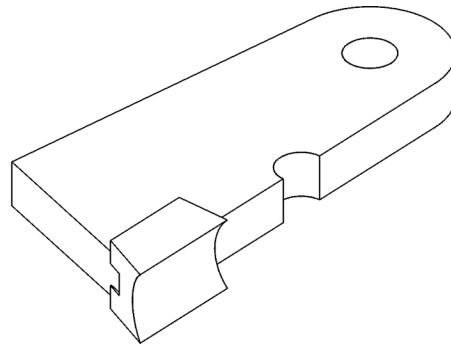


ITEM	PART NO.	QTY.	DESCRIPTION
1	06420025	1	ADAPTER,SAW,SABER,RNFRCD
2	06520224	1	BLADE, 48" SAW WITH TEETH
3	06420038	1	COLLAR,SAW,SABER
4	33380	6	FLATWASHER,3/4",GR8,SAE
5	06530210	6	CAPSCREW,5/8" X 3-3/4",NF,GR 8
6	06520225	30	TOOTH WITH RIVET, SAW BLADE
7	34703	30	TOOTH RIVET, SAW BLADE
---	34704	-	RIVET REMOVER TOOL (NOT SHOWN)
8	34702	30	TOOTH TIP, SAW, CARBIDE
---	34705	-	SHARPENING TOOL (NOT SHOWN)

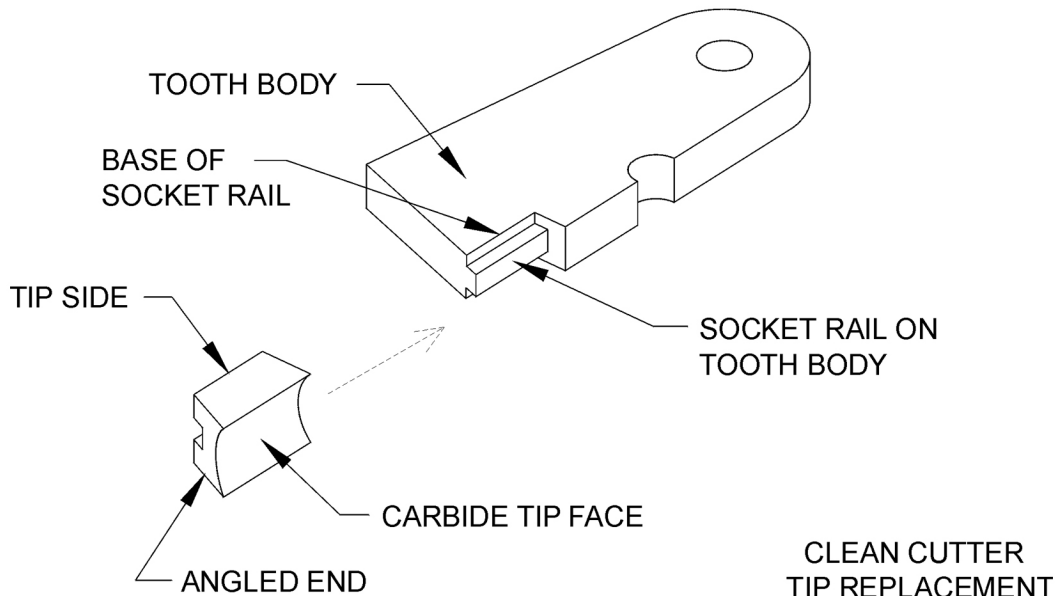
COMMON SABER

CARBIDE TIP REPLACEMENT

1. Heat face of tip to dull orange, remove tip, then brush tooth body clean of all debris (carbon).
2. Apply acetone to socket rail on tooth body and allow it to evaporate. Dab on soldering paste (black flux) to socket rail of tooth body and slide pre-tinned tip into place.
3. Then heat tip sides and base of socket rail to ensure silver solder flows completely around base of tip. Grasp tip with tweezers and gently twist tip back and forth to ensure complete bonding of silver solder.
4. Discontinue heat, and allow to cool. Then check braze by gently tapping tip with rubber mallet.



VIEW OF ASSEMBLED TOOTH

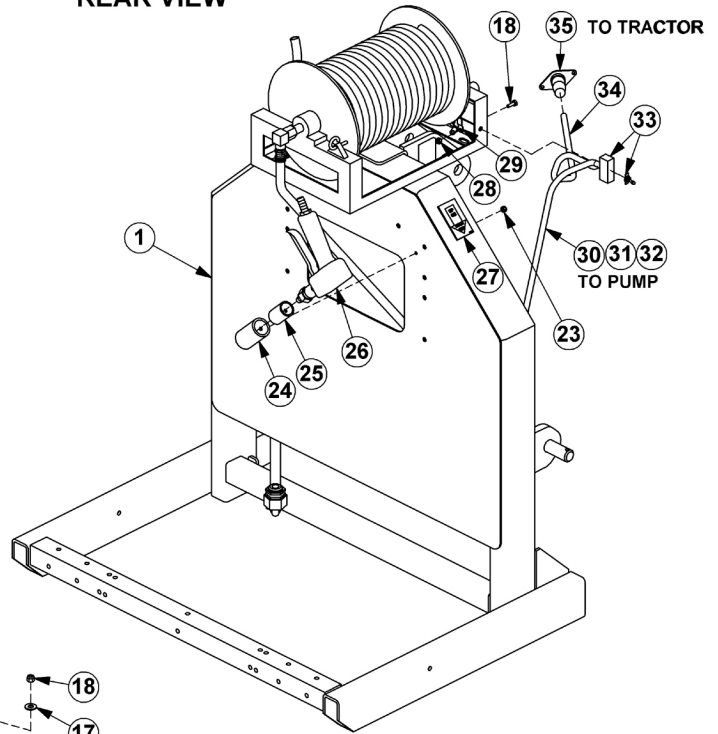


NOTES

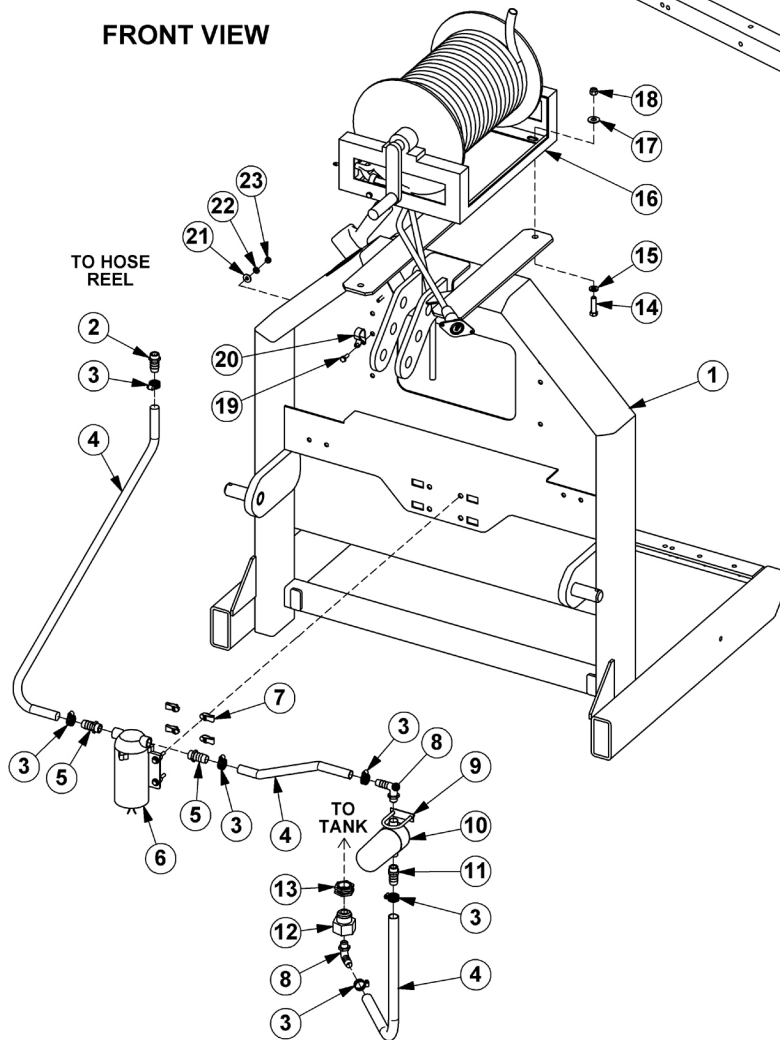
**FIRE SUPPRESSION SYSTEM
SECTION**

FIRE SUPPRESSION 3-POINT MOUNT

REAR VIEW



FRONT VIEW



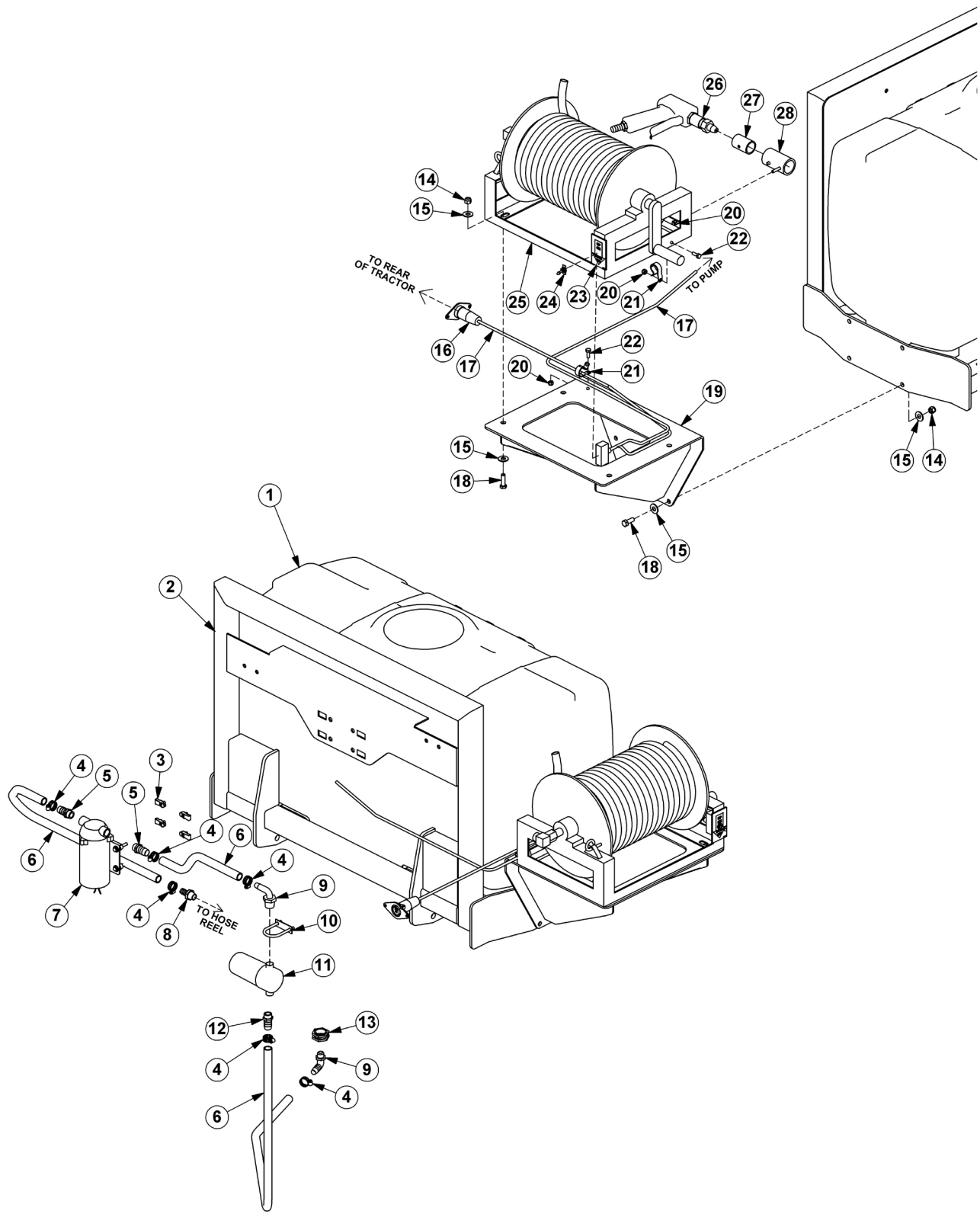
FIRE SUPPRESSION 3-POINT MOUNT

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370137	1	MOUNT,3PNT,FIRE SYS
2	06503108	1	FITTING,1/2"BARB X 1/2"MP
3	35091	6	CLAMP,HOSE,#6
4	06520469	5	HOSE,1/2",BULK (FEET)
5	06503168	2	SWIVEL,1/2"STR,POLY
6	06520359	1	PUMP,LARGE
7	35176	4	U-NUT,1/4"
8	06520367	2	ELBOW,1/2"BARB X 1/2"MP,POLY
9	27329	1	U-BOLT,1/4"
10	06520361	1	FILTER
---	06520351	1	ELEMENT,FILTER
11	06520349	1	FITTING,BARB,HOSE
12	06503169	1	REDUCER,BUSHING (100 & 150 GALLON TANKS ONLY)
13	06520346	1	FITTING,BULKHEAD (50 GALLON TANKS ONLY)
14	21632	4	CAPSCREW,3/8" X 1-1/2",NC
15	21988	4	LOCKWASHER,3/8"
16	06520360	1	HOSE REEL
17	22016	4	FLATWASHER,3/8"
18	21627	4	NYLOCK NUT,3/8",NC
19	21529	2	CAPSCREW,1/4" X 3/4",NC
20	06510258	1	CLAMP,3/4"
21	22014	1	FLATWASHER,1/4"
22	21986	1	LOCKWASHER,1/4"
23	21525	2	HEX NUT,1/4",NC
24	06370121	1	HOLSTER
25	06430090	1	SLEEVE
26	06520366	1	GUN,FIRE SYS
27	6T3222	1	DECAL
28	21527	1	NYLOCK NUT,1/4",NC
29	06510257	1	CLAMP,3/8"
30	28055	5	WIRE,BLACK,14GA (FEET)
31	24200	5	WIRE,RED,14GA (FEET)
32	22802	5	WIRE WRAP (FEET)
33	PT3905A	1	SWITCH
34	06510256	4	CABLE,14GA,4WIRE (FEET)
35	06510255	1	PLUG,7PIN,TRCTR

COMMON SABER

FIRE SUPPRESSION FRONT MOUNT



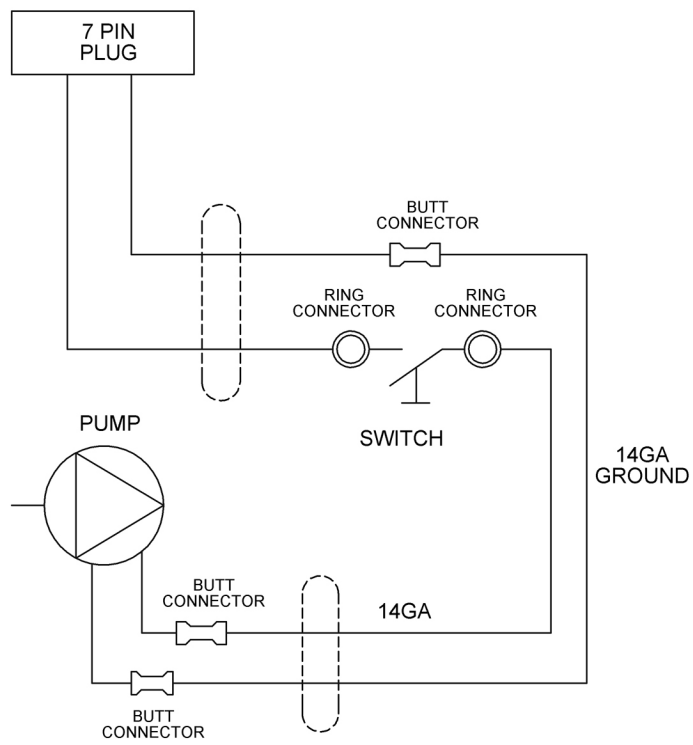
FIRE SUPPRESSION FRONT MOUNT

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06520342	1	TANK,50 GALLON
2	06370204	1	MNT,TANK,FRNT,50 GALLON
3	35176	4	U-NUT,1/4,3/4 TO CENTER
4	35091	6	CLAMP,HOSE,#6
5	06503168	2	SWIVEL,1/2 STR,POLY
6	06520469	8	HOSE,1/2,SPRAYER
7	06520359	1	PUMP,FIRE KIT
8	06503108	1	FITTING,1/2" BARB X 1/2"MP
9	06520367	2	ELBOW,1/2MPX1/2BARB,POLY
10	27329	1	U-BOLT,1/4X2X1
11	06520361	1	FILTER,FIRE KIT,RAILKUT
---	06520351	1	STRAINER,40 MESH
12	06520349	1	FITTING,BARB,HOSE,WETCUT
13	06520346	1	FITTING,BULKHEAD
14	21627	8	NYLOCK NUT,3/8 NC
15	22016	16	FLATWASHER,3/8,GR8
16	06510255	1	PLUG,7PIN,TRCTR
17	06510256	22	WIRE,14GA,4WIRE (FEET)
18	21631	8	CAPSCREW,3/8X1 1/4, NC,GR8
19	06370207	1	MNT,FIRE SUPPRESSION
20	21527	3	NYLOCK NUT,1/4 NC
21	06510257	2	CLAMP,3/8X1/4,INS
22	21529	2	CAPSCREW,1/4 X 3/4 NC
23	6T3222	1	DECAL,CONTROL,ON-OFF SWITCH
24	PT3905A	1	SWITCH,MOWER
25	06520360	1	HOSE REEL,FIRE KIT,RAILKUT
26	06520366	1	GUN,FIRE KIT,RAILKUT
27	06430090	1	SLEEVE,GUN,FIRE SYS
28	06370121	1	HOLSTER,FIRESYS,RAILKUT

COMMON SABER

FIRE SUPPRESSION SYSTEM ELECTRICAL SCHEMATIC

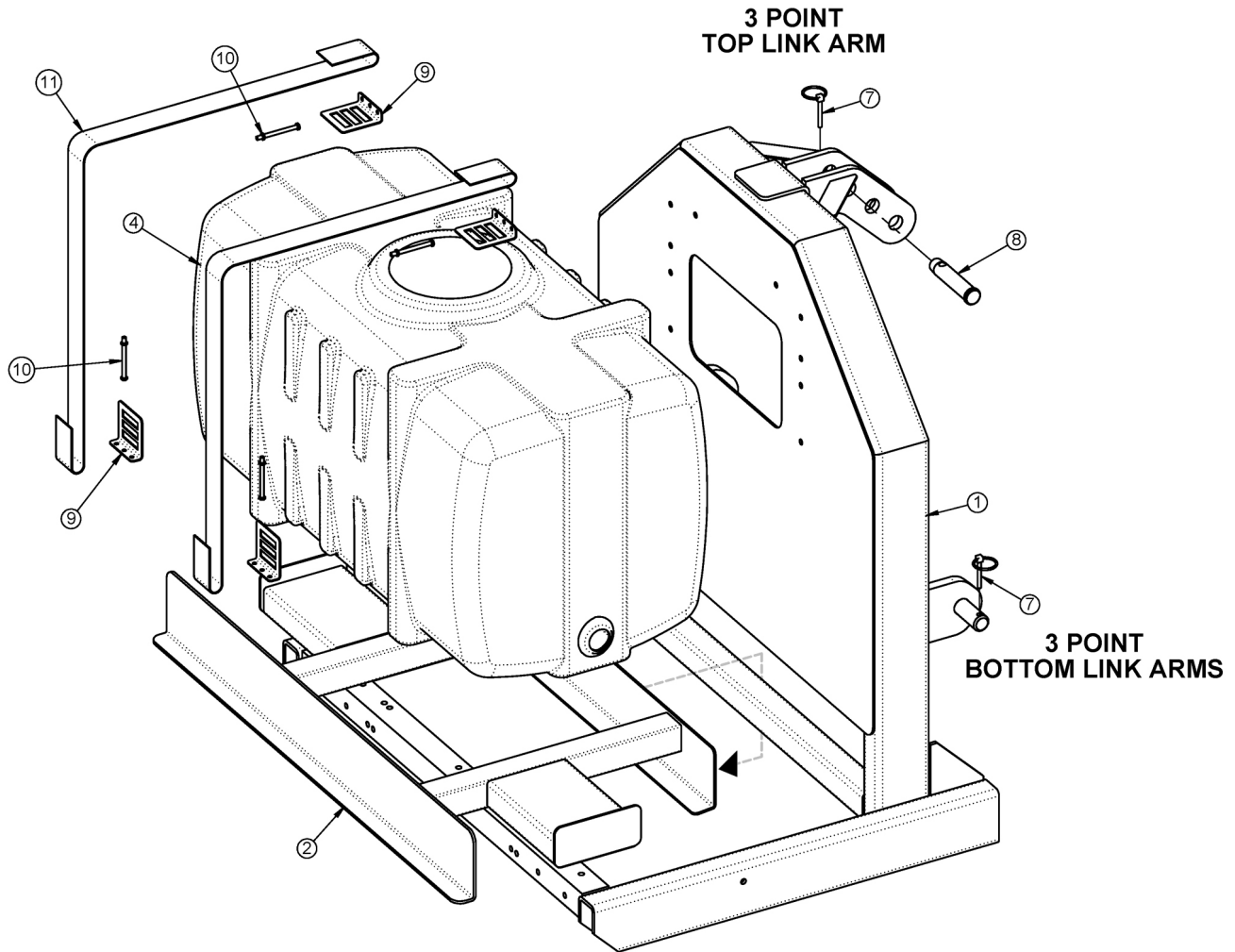


WETCUT

**WETCUT
SECTION**

WETCUT 50 GALLON TANK - 3PNT MOUNT

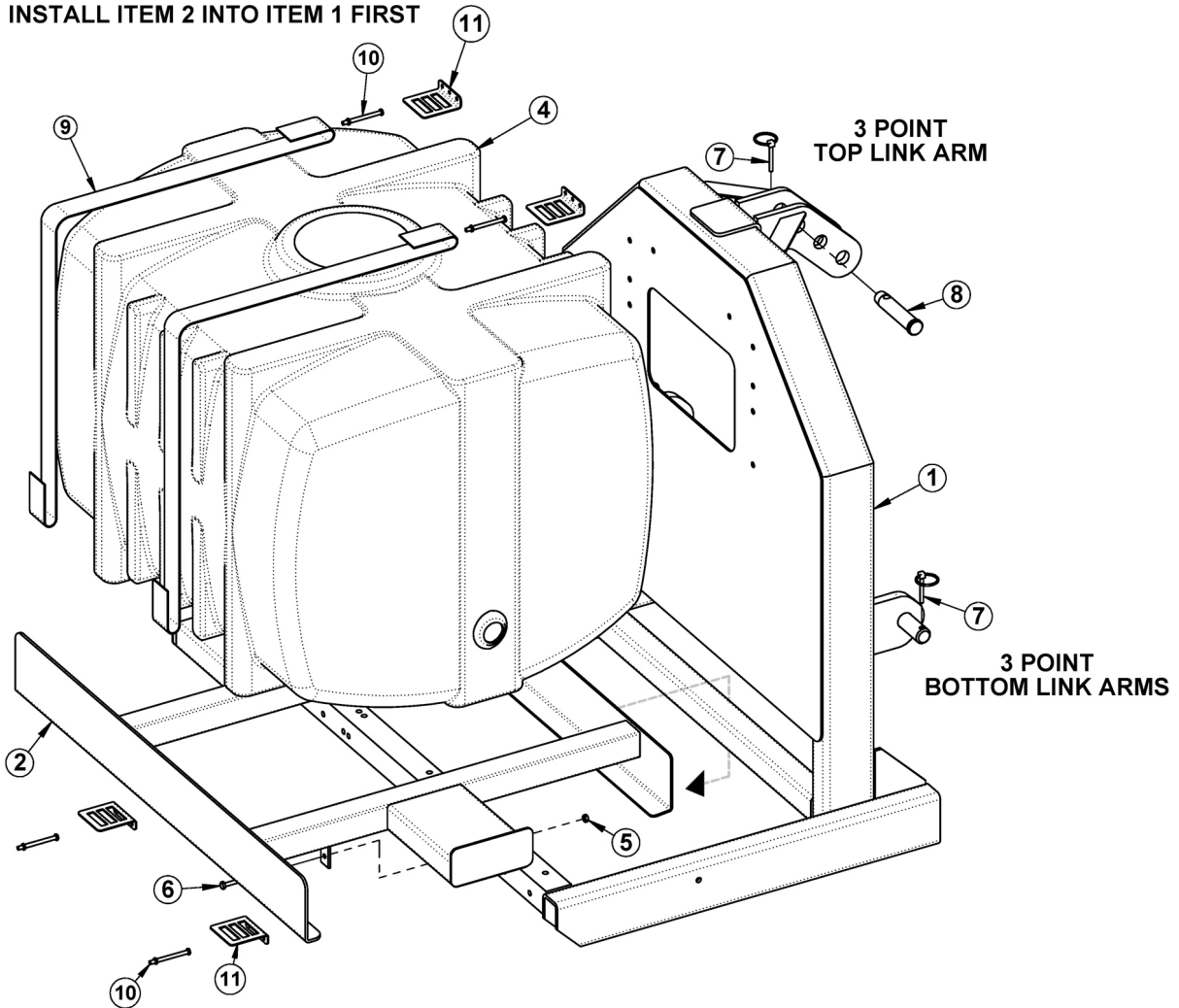
INSTALL ITEM 2 INTO ITEM 1 FIRST



ITEM	PART NO.	QTY.	DESCRIPTION
1	06370128	1	MNT,3PNT,UNI
2	06370136	1	MNT,TANK,50GAL,WETCUT
4	06520342	1	TANK,50GA.,WETCUT
7	RD1032	3	PIN,LYNCH 1/4" X 2"
8	TB1036	1	PIN,SEC BOOM SWIV 1X4-11/16"
9	06520343	4	ANCHOR,STRAP,WETCUT
10	06520344	4	BOLT,STRAP,TANK,WETCUT
11	06520345	2	STRAP,TANK,WETCUT

WETCUT 100 OR 150 GALLON TANK - 3PNT MOUNT

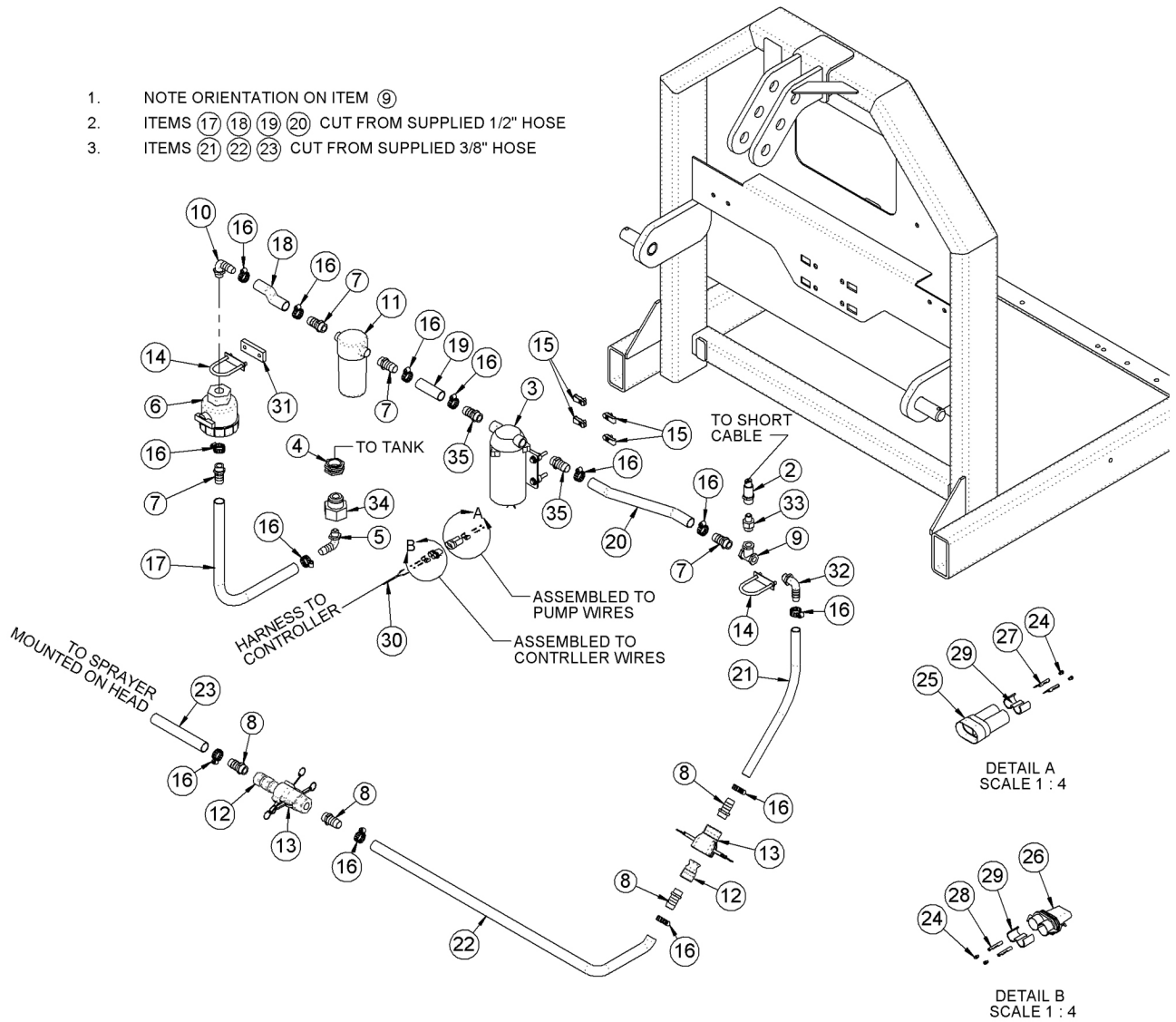
INSTALL ITEM 2 INTO ITEM 1 FIRST



ITEM	PART NO.	QTY.	DESCRIPTION
1	06370128	1	MNT,3PNT,UNI
2	06370138	1	MNT,TANK,100GAL,WETCUT
-----	06370139	-	MNT,TANK,150GAL,WETCUT
4	06520372	1	TANK,100GA.,WETCUT
-----	06520373	-	TANK,150GA.,WETCUT
5	21527	2	HEX NUT,NYLOCK,1/4" NC
6	21530	2	CAPSCREW,1/4" X 1" NC
7	RD1032	3	PIN,LYNCH 1/4" X 2"
8	TB1036	1	PIN,SEC BOOM SWIV 1X4-11/16"
9	06520345	2	STRAP,TANK,WETCUT
10	06520344	4	BOLT,STRAP,TANK,WETCUT
11	06520343	4	ANCHOR,STRAP,WETCUT

WETCUT 3PNT PLUMBING - 50IN MOWERS

1. NOTE ORIENTATION ON ITEM ⑨
2. ITEMS ⑰ ⑱ ⑲ ⑳ CUT FROM SUPPLIED 1/2" HOSE
3. ITEMS ㉑ ㉒ ㉓ CUT FROM SUPPLIED 3/8" HOSE



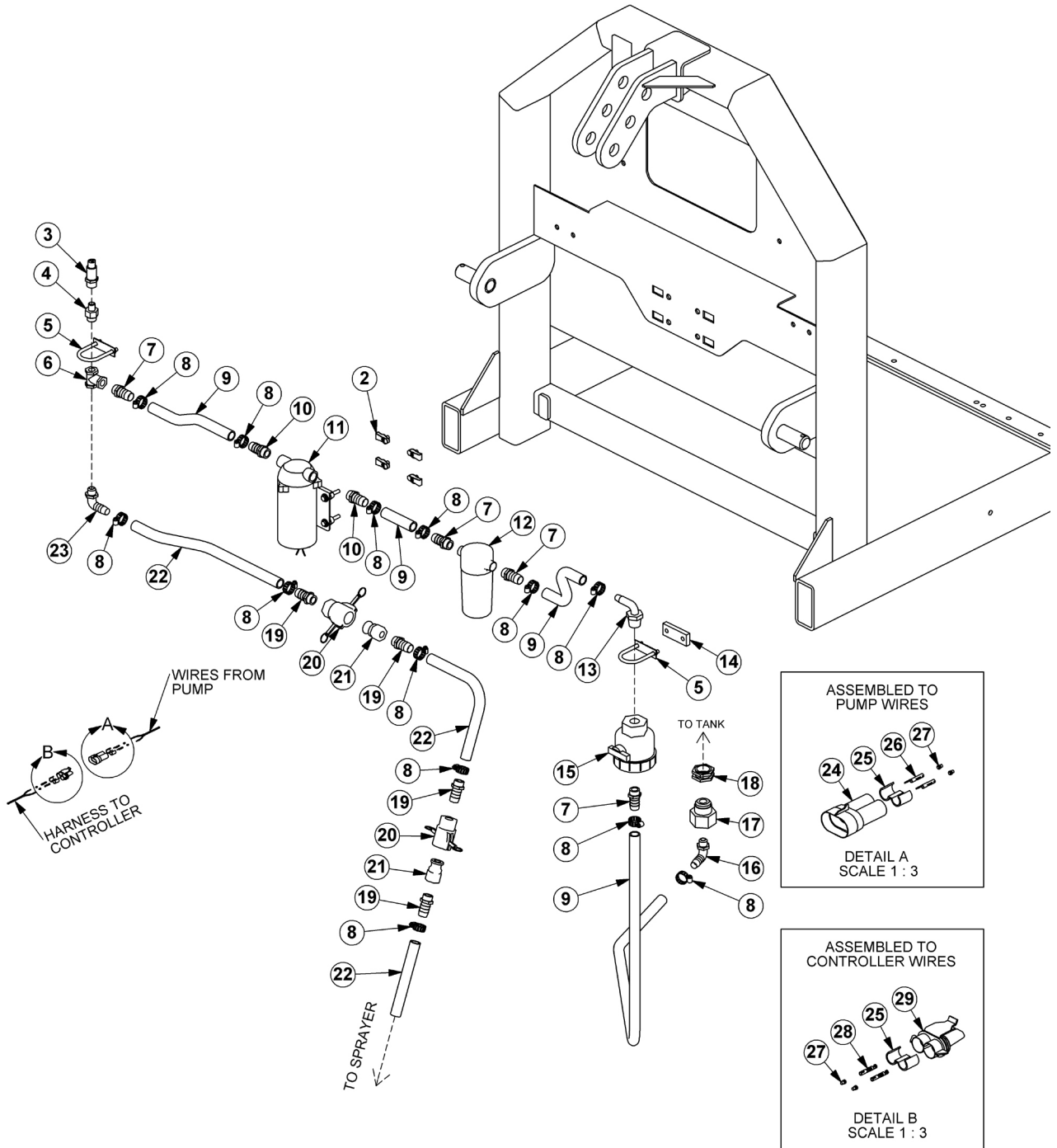
WETCUT 3PNT PLUMBING - 50IN MOWERS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370128	1	MNT,3PNT,UNI
2	06520336	1	CNTRLR,SENSOR,06520333
3	06520341	1	PUMP,WETCUT
4	06520346	1	FITTING,BULKHEAD,WETCUT (50 GALLON TANKS ONLY)
5	06520347	1	FITTING,ELBOW,WETCUT
6	06520348	1	VLV,BALL,WETCUT
7	06520349	4	FITTING,BARB,HOSE,WETCUT
8	06503173	4	FITTING,1/2MP X 3/8" BARB
9	06520353	1	FITTING,TEE,WETCUT
10	06520367	1	ELBOW,1/2" X 1/2" BARB,POLY
11	06520361	1	FILTER,FIRE KIT,RAILKUT
12	06520400	2	QUIK CPLR,MALE,1/2",WETCUT
13	06520401	2	QUIK CPLR,FEM,1/2",WETCUT
14	27329	2	U-BOLT,1/4" X 1" X 2"
15	35176	4	U-NUT,1/4",3/4" TO CENTER
16	35091	13	CLAMP, HOSE #6
17 - 20	06520469	5	1/2" HOSE (FEET)
21 - 23	06520316	-	3/8" HOSE (INCLUDED WITH SPRAYER)
24	06510051	4	SEAL,16-18GA,METPAK
25	06510052	1	CONN.,BODY,MALE,METRIPACK 150
26	06510053	1	CONN.,BODY,FEM,METRIPACK 150
27	06510054	2	TERMINAL,MALE,16/18GA.METPAK
28	06510055	2	TERMINAL,FEM,16/18GA.METPAK
29	06510056	2	TPA
30	06520337	1	INCLUDED WITH CONTROLLER
31	06401133	1	SPACER,Ø.31" X 1.75" X .38"
32	06503165	1	ELBOW,1/2"MP X 3/8" BARB
33	06520354	1	BUSHING,REDUCER,WETCUT
34	06503169	1	BUSHING,1"MP X 1/2"FP (100 & 150 GALLON TANKS ONLY)
35	06503176	2	FITTING,BARB,3/8"MP X 1/2" BARB

COMMON SABER

WETCUT 3PNT PLUMBING - LARGE MOWERS



WETCUT 3PNT PLUMBING - LARGE MOWERS

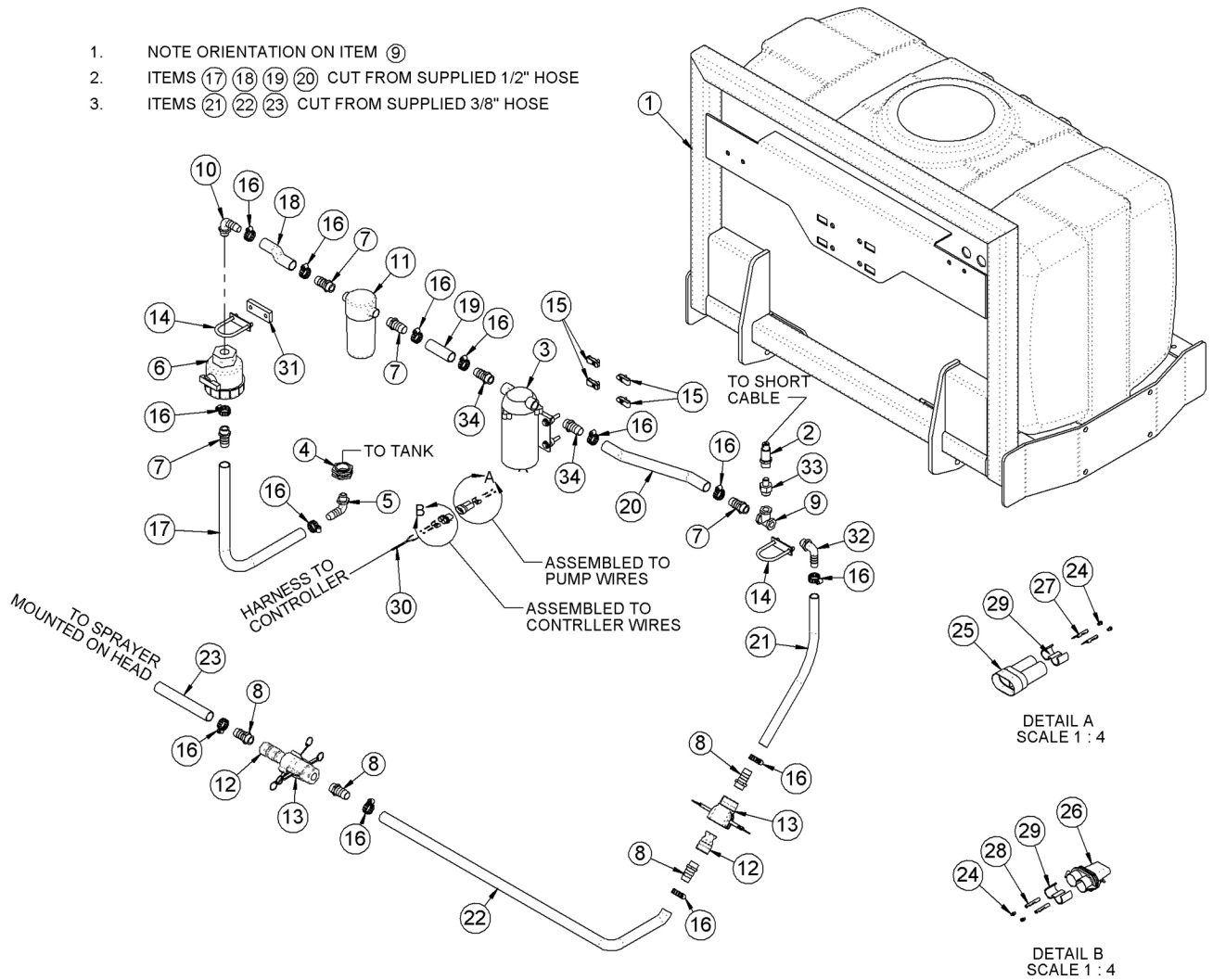
Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370128	1	MNT,3PNT,UNI
2	35176	4	U-NUT,1/4,3/4 TO CENTER
3	06520336	1	CNTRLR,SENSOR,06520333
4	06520354	1	BUSHING,REDUCER,WETCUT
5	27329	2	U-BOLT,1/4" X 1" X 2"
6	06520353	1	FITTING,TEE,WETCUT
7	06520349	4	FITTING,BARB,HOSE,WETCUT
8	35091	13	CLAMP, HOSE #6
9	06520469	5	1/2" HOSE (FEET)
10	06503168	2	SWIVEL,1/2" STR
11	06520359	1	PUMP,LARGE
12	06520361	1	FILTER,FIRE KIT,RAILKUT
---	06520351	1	STRAINER,40MESH
13	06520367	1	ELBOW,1/2X1/2BARB,POLY
14	06401133	1	SPACER,Ø.31X1.75X.38
15	06520348	1	VLV,BALL,WETCUT
16	06520347	1	FITTING,ELBOW,WETCUT
17	06503169	1	BUSHING,1MPX1/2FP (100 & 150 GALLON TANKS ONLY)
18	06520346	1	FITTING,BULKHEAD,WETCUT (50 GALLON TANKS ONLY)
19	06503173	4	FITTING,BARB,1/2X3/8,WETCUT
20	06520401	2	QUIK CPLR,FEM,1/2,WETCUT
21	06520400	2	QUIK CPLR,MALE,1/2,WETCUT
22	06520316	-	3/8" HOSE (INCLUDED WITH SPRAYER)
23	06503165	1	ELBOW,1/2X3/8BARB,POLY
24	06510052	1	CONN.,BODY,MALE,METRIPACK 150
25	06510056	2	TPA
26	06510054	2	TERMINAL,MALE,16/18GA.METPAK
27	06510051	4	SEAL,16-18GA,METPAK
28	06510055	2	TERMINAL,FEM,16/18GA.METPAK
29	06510053	1	CONN.,BODY,FEM,METRIPACK 150

COMMON SABER

WETCUT FRONT PLUMBING - 50IN MOWERS

1. NOTE ORIENTATION ON ITEM ⑨
2. ITEMS ⑰ ⑱ ⑲ ⑳ CUT FROM SUPPLIED 1/2" HOSE
3. ITEMS ㉑ ㉒ ㉓ CUT FROM SUPPLIED 3/8" HOSE



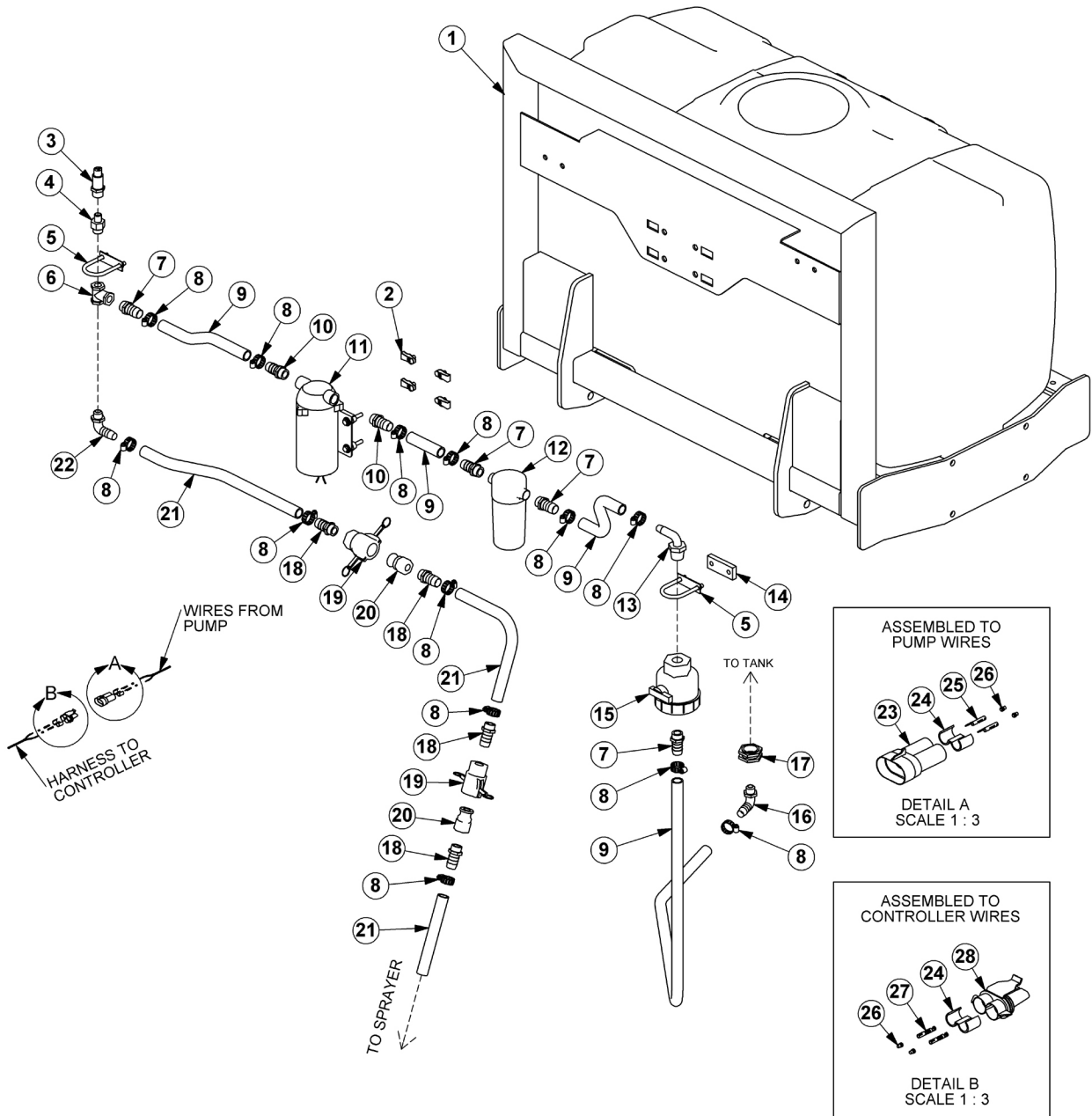
WETCUT FRONT PLUMBING - 50IN MOWERS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370204	1	MNT,FRONT,UNI
2	06520336	1	CNTRLR,SENSOR,06520333
3	06520341	1	PUMP,WETCUT
4	06520346	1	FITTING,BULKHEAD,WETCUT
5	06520347	1	FITTING,ELBOW,WETCUT
6	06520348	1	VLV,BALL,WETCUT
7	06520349	4	FITTING,BARB,HOSE,WETCUT
8	06503173	4	FITTING,1/2"MP X 3/8"BARB
9	06520353	1	FITTING,TEE,WETCUT
10	06520367	1	ELBOW,1/2"MP X 1/2"BARB,POLY
11	06520361	1	FILTER,FIRE KIT,RAILKUT
---	06520351	1	STRAINER,40MESH
12	06520400	2	QUIK CPLR,MALE,1/2",WETCUT
13	06520401	2	QUIK CPLR,FEM,1/2",WETCUT
14	27329	2	U-BOLT,1/4" X 1" X 2"
15	35176	4	U-NUT,1/4",3/4" TO CENTER
16	35091	13	CLAMP,HOSE #6
17 - 20	06520469	5	1/2" HOSE (FEET)
21 - 23	06520316	-	3/8" HOSE (INCLUDED WITH SPRAYER)
24	06510051	4	SEAL,16-18GA,METPAK
25	06510052	1	CONN.,BODY,MALE,METRIPACK 150
26	06510053	1	CONN.,BODY,FEM,METRIPACK 150
27	06510054	2	TERMINAL,MALE,16/18GA.METPAK
28	06510055	2	TERMINAL,FEM,16/18GA.METPAK
29	06510056	2	TPA
30	06520337	1	INCLUDED WITH CONTROLLER
31	06401133	1	SPACER,Ø.31" X 1.75" X .38"
32	06503165	1	ELBOW,1/2"MP X 3/8"BARB,POLY
33	06520354	1	BUSHING,REDUCER,WETCUT
34	06503176	2	FITTING,3/8"MP X 1/2"BARB

COMMON SABER

WETCUT FRONT PLUMBING - LARGER MOWERS



WETCUT FRONT PLUMBING - LARGER MOWERS

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370204	1	MNT,FRONT,UNIV
2	35176	4	U-NUT,1/4,3/4 TO CENTER
3	06520336	1	CNTRLR,SENSOR,06520333
4	06520354	1	BUSHING,REDUCER,WETCUT
5	27329	2	U-BOLT,1/4" X 1" X 2"
6	06520353	1	FITTING,TEE,WETCUT
7	06520349	4	FITTING,BARB,HOSE,WETCUT
8	35091	13	CLAMP, HOSE #6
9	06520469	5	1/2" HOSE (FEET)
10	06503168	2	SWIVEL,1/2" STR
11	06520359	1	PUMP,LARGE
12	06520361	1	FILTER,FIRE KIT,RAILKUT
---	06520351	1	STRAINER,40MESH
13	06520367	1	ELBOW,1/2X1/2BARB,POLY
14	06401133	1	SPACER,Ø.31X1.75X.38
15	06520348	1	VLV,BALL,WETCUT
16	06520347	1	FITTING,ELBOW,WETCUT
17	06520346	1	FITTING,BULKHEAD,WETCUT
18	06503173	4	FITTING,BARB,1/2X3/8,WETCUT
19	06520401	2	QUIK CPLR,FEM,1/2,WETCUT
20	06520400	2	QUIK CPLR,MALE,1/2,WETCUT
21	06520316	-	3/8" HOSE (INCLUDED WITH SPRAYER)
22	06503165	1	ELBOW,1/2X3/8BARB,POLY
23	06510052	1	CONN.,BODY,MALE,METRIPACK 150
24	06510056	2	TPA
25	06510054	2	TERMINAL,MALE,16/18GA.METPAK
26	06510051	4	SEAL,16-18GA,METPAK
27	06510055	2	TERMINAL,FEM,16/18GA.METPAK
28	06510053	1	CONN.,BODY,FEM,METRIPACK 150

COMMON SABER

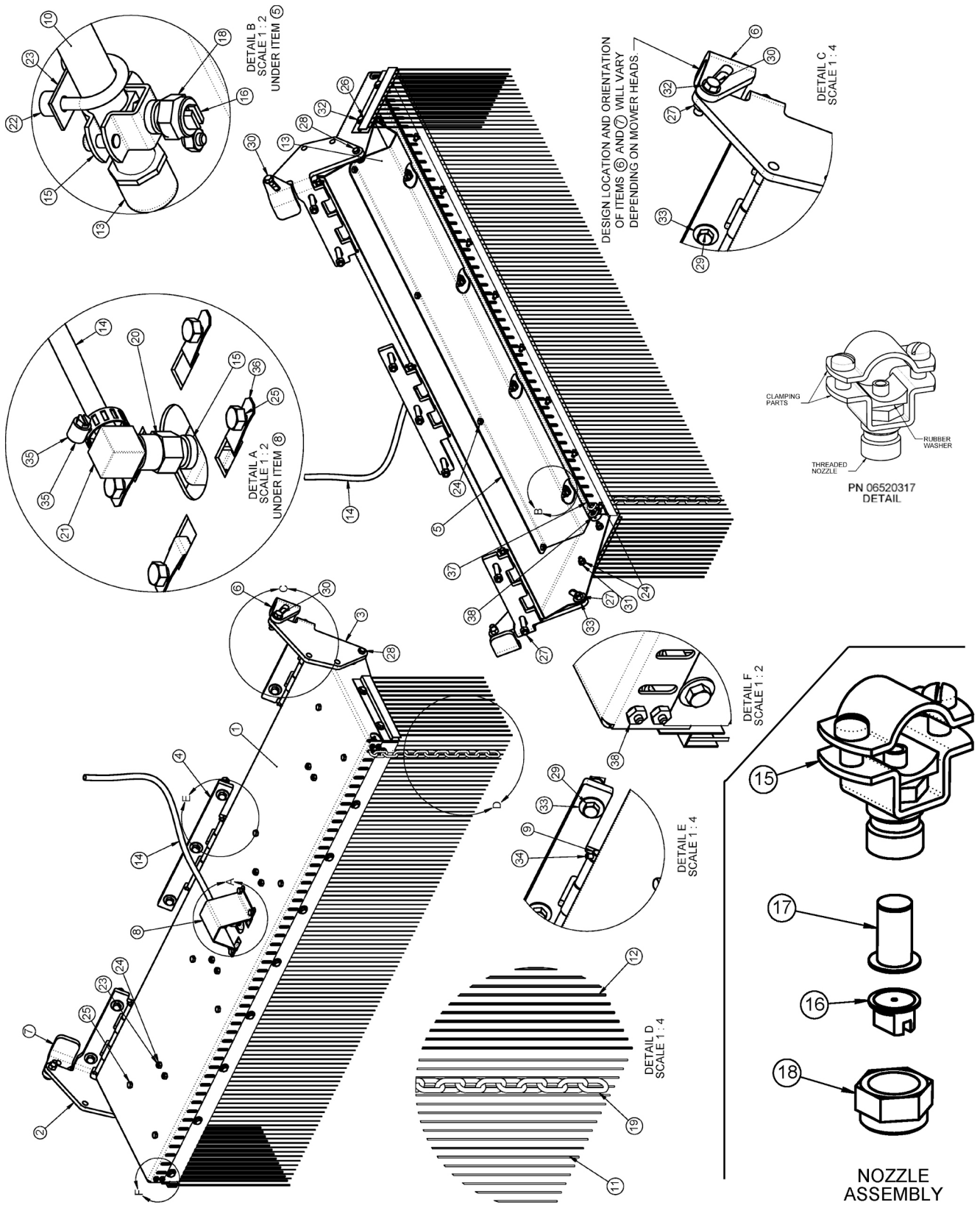
WETCUT 50IN SPRAYER HEAD ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370105	1	HOOD,SPRAYER
2	06370106	1	HINGE,LH,SPRAYER
3	06370107	1	HINGE,RH,SPRAYER
4	06370108	1	HINGE,CNTR,SPRAYER
5	06410668	1	GUARD,SPRAYER,WETCUT
6	06410753	1	MNT,RH,WET CUT (FLAIL)
---	06410942	1	MNT,RH,WET CUT (ROTARY)
7	06410754	1	MNT,LH,WET CUT (FLAIL)
---	06410943	1	MNT,LH,WET CUT (ROTARY)
8	06410796	1	GUARD,HOSE,WETCUT
9	06420069	3	PIN,HINGE,WET CUT
10	06497003	1	TUBE,LG,SPRAYER
11	06499012	1	SKIRT,ANTI SPRAY,50
12	06499013	2	SKIRT,ANTI SPRAY,7
13	06520314	2	TUBE,CAP,SPRAYER
14	06520316	15	HOSE,SPRAYER (FEET)
15	06520317	5	NOZZLE,SPRAYER
16	06520319	4	TIP,NOZZLE,SPRAYER
17	06520320	4	FILTER,NOZZLE,SPRAYER
18	06520321	4	NUT,NOZZLE,SPRAYER
19	06520322	49	CHAIN,.18" X 1.31" X 13LINKS
20	06520381	1	ADAPTER,1/4"NPT,WETCUT
21	06520382	1	ELBOW,BARB,3/8" X 1/4"NPT
22	06520383	8	SPACER,.50"O.D. X .252" I.D. X .38",NYLON
23	32550	4	U-BOLT,1/4" X 1" X 1" X 1-3/4"
24	21527	29	HEX NUT,NYLOCK,1/4",NC
25	21528	12	CAPSCREW,1/4" X 1/2",NC
26	21529	13	CAPSCREW,1/4" X 3/4",NC
27	21625	11	HEX NUT,3/8",NC
28	21630	2	CAPSCREW,3/8" X 1",NC
29	21634	7	CAPSCREW,3/8" X 2",NC
30	21632	2	CAPSCREW,3/8" X 1-1/2",NC
31	21986	4	LOCKWASHER,1/4"
32	22014	15	FLATWASHER,1/4"
33	22016	9	FLATWASHER,3/8",GR8
34	34698	6	ROLL PIN, PLAIN, 3/16" X 7/8"
35	35091	1	CLAMP,HOSE #6
36	35176	4	U-NUT,1/4",3/4" TO CENTER
37	06520376	5	CABLE,3/16"
38	06537022	2	U-BOLT,CABLE,3/16"

COMMON SABER

WETCUT 60IN SPRAYER HEAD ASSEMBLY



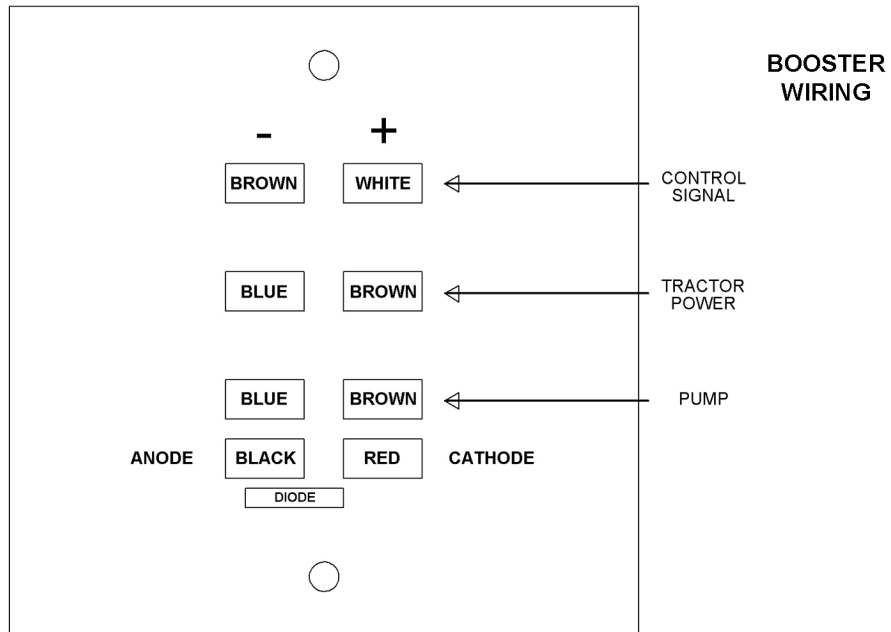
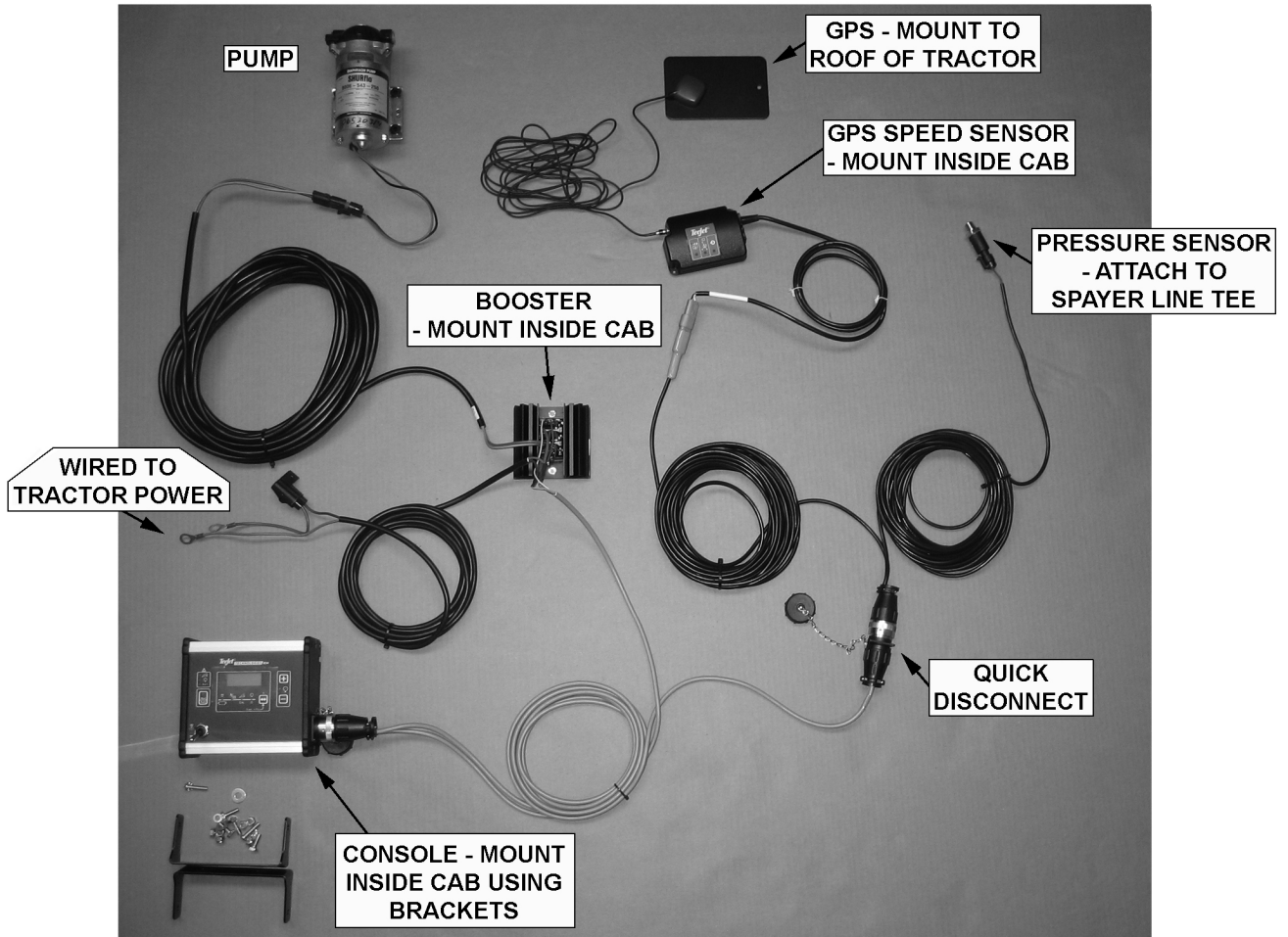
WETCUT 60IN SPRAYER HEAD ASSEMBLY

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	06370210	1	HOOD,SPRAYER
2	06370106	1	HINGE,LH,SPRAYER
3	06370107	1	HINGE,RH,SPRAYER
4	06370108	1	HINGE,CNTR,SPRAYER
5	06411234	1	GUARD,SPRAYER,WETCUT
6	06410753	1	MNT,RH,WET CUT (FLAIL)
---	06410942	1	MNT,RH,WET CUT (ROTARY)
7	06410754	1	MNT,LH,WET CUT (FLAIL)
---	06410943	1	MNT,LH,WET CUT (ROTARY)
8	06410796	1	GUARD,HOSE,WETCUT
9	06420069	3	PIN,HINGE,WET CUT
10	06497009	1	TUBE,LG,SPRAYER
11	06499018	1	SKIRT,ANTI SPRAY,60
12	06499013	2	SKIRT,ANTI SPRAY,7
13	06520314	2	TUBE,CAP,SPRAYER
14	06520316	15	HOSE,SPRAYER (FEET)
15	06520317	6	NOZZLE,SPRAYER
16	06520319	5	TIP,NOZZLE,SPRAYER
17	06520320	5	FILTER,NOZZLE,SPRAYER
18	06520321	5	NUT,NOZZLE,SPRAYER
19	06520322	61	CHAIN,.18" X 1.31" X 13LINKS
20	06520381	1	ADAPTER,1/4"NPT,WETCUT
21	06520382	1	ELBOW,BARB,3/8" X 1/4"NPT
22	06520383	10	SPACER,.50"O.D. X .252" I.D. X .38",NYLON
23	32550	5	U-BOLT,1/4" X 1" X 1" X 1-3/4"
24	21527	33	HEX NUT,NYLOCK,1/4",NC
25	21528	15	CAPSCREW,1/4" X 1/2",NC
26	21529	13	CAPSCREW,1/4" X 3/4",NC
27	21625	13	HEX NUT,3/8",NC
28	21630	2	CAPSCREW,3/8" X 1",NC
29	21634	7	CAPSCREW,3/8" X 2",NC
30	21632	4	CAPSCREW,3/8" X 1-1/2",NC
31	21986	4	LOCKWASHER,1/4"
32	22014	33	FLATWASHER,1/4"
33	22016	11	FLATWASHER,3/8",GR8
34	34698	6	ROLL PIN, PLAIN, 3/16" X 7/8"
35	35091	1	CLAMP,HOSE #6
36	35176	4	U-NUT,1/4",3/4" TO CENTER
37	06520376	6	CABLE,3/16" (FEET)
38	06537022	2	U-BOLT,CABLE,3/16"

COMMON SABER

WETCUT CABLES





TIGER CORPORATION
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 said equipment that in Tiger's adjustment, 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, in his service shop and during his 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, though, 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 our products, we reserve the right to change specifications or design at any time.

